



Full wwPDB X-ray Structure Validation Report

Jun 16, 2014 – 06:46 PM BST

PDB ID : 4V86
Title : Structure-function Analysis of Receptor-binding in Adeno-Associated Virus Serotype 6 (AAV-6)
Authors : Xie, Q.
Deposited on : 2011-09-13
Resolution : 3.00 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

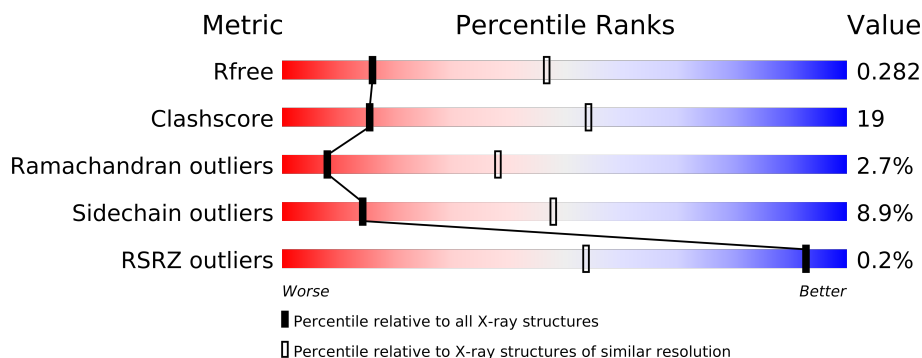
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : dev-1323
EDS : stable23397
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable23397

1 Overall quality at a glance

The reported resolution of this entry is 3.00 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	1216 (3.00-3.00)
Clashscore	79885	1594 (3.00-3.00)
Ramachandran outliers	78287	1537 (3.00-3.00)
Sidechain outliers	78261	1540 (3.00-3.00)
RSRZ outliers	66119	1217 (3.00-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	0	520	
1	1	520	
1	2	520	
1	3	520	
1	4	520	
1	5	520	
1	6	520	
1	7	520	
1	A	520	
1	B	520	
1	C	520	
1	D	520	
1	E	520	
1	F	520	





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Mol	Chain	Length	Quality of chain
1	G	520	
1	H	520	
1	I	520	
1	J	520	
1	K	520	
1	L	520	
1	M	520	
1	N	520	
1	O	520	
1	P	520	
1	Q	520	
1	R	520	
1	S	520	
1	T	520	
1	U	520	
1	V	520	
1	W	520	
1	X	520	
1	Y	520	
1	Z	520	
1	a	520	
1	b	520	
1	c	520	
1	d	520	
1	e	520	
1	f	520	
1	g	520	
1	h	520	
1	i	520	
1	j	520	
1	k	520	
1	l	520	
1	m	520	
1	n	520	
1	o	520	
1	p	520	
1	q	520	
1	r	520	
1	s	520	
1	t	520	
1	u	520	
1	v	520	

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Mol	Chain	Length	Quality of chain
1	w	520	
1	x	520	
1	y	520	
1	z	520	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 247260 atoms, of which 0 are hydrogen and 0 are deuterium.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 VP1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	B	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	C	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	D	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	E	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	F	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	G	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	H	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	I	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	J	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	K	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	L	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	M	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	N	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	O	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	P	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Q	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	R	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	S	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	T	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	U	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	V	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	W	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	X	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	Y	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	Z	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	a	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	b	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	c	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	d	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	e	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	f	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	g	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	h	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	i	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	j	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0
1	k	520	Total 4121	C 2607	N 712	O 786	S 16	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	l	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	m	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	n	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	o	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	p	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	q	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	r	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	s	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	t	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	u	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	v	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	w	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	x	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	y	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	z	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	0	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	1	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	2	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	3	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	4	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			
1	5	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			

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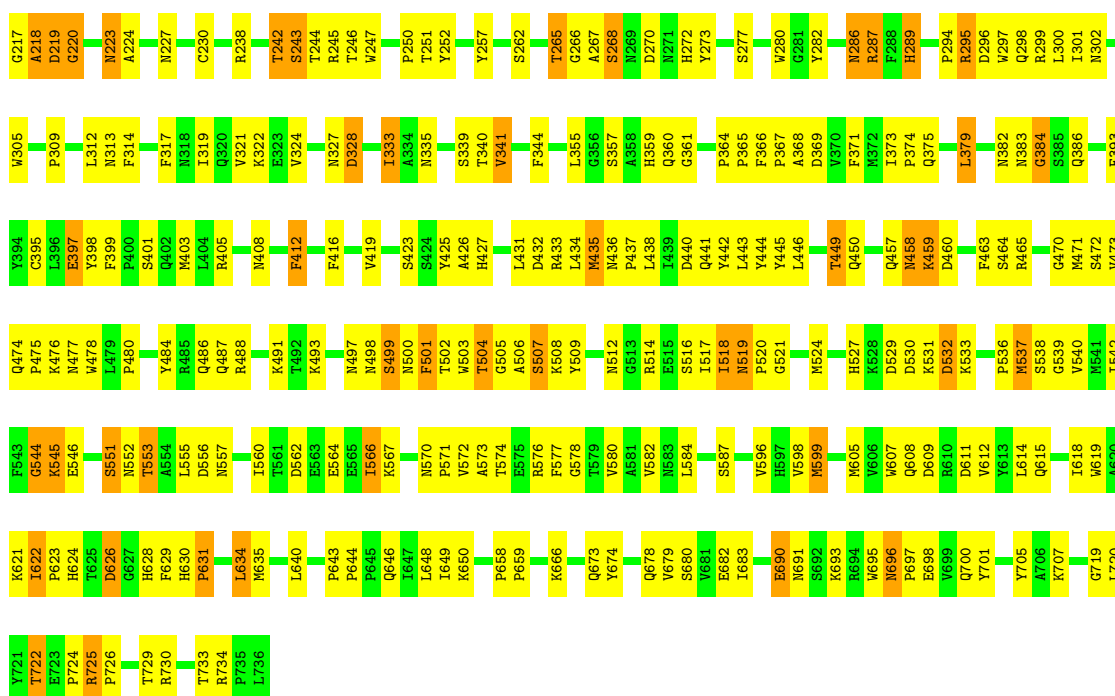
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			4121	2607	712	786	16			
1	7	520	Total	C	N	O	S	0	0	0
			4121	2607	712	786	16			

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

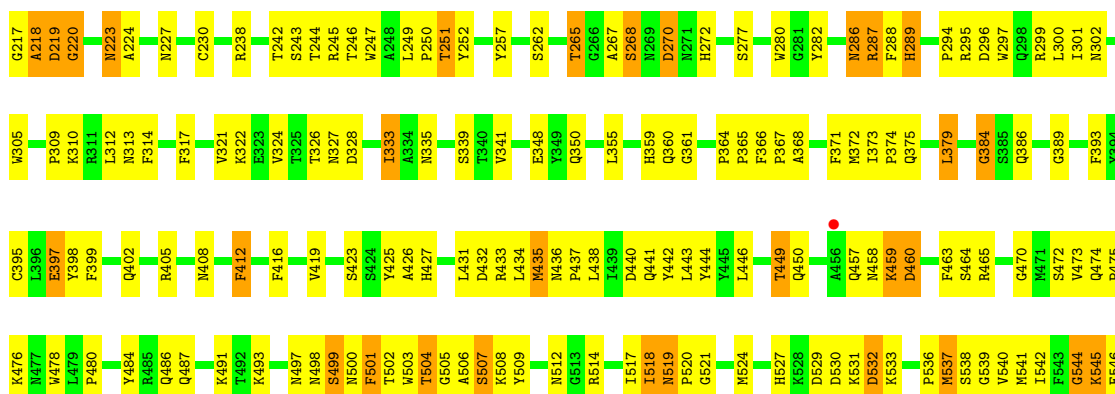
• Molecule 1: Capsid protein VP1

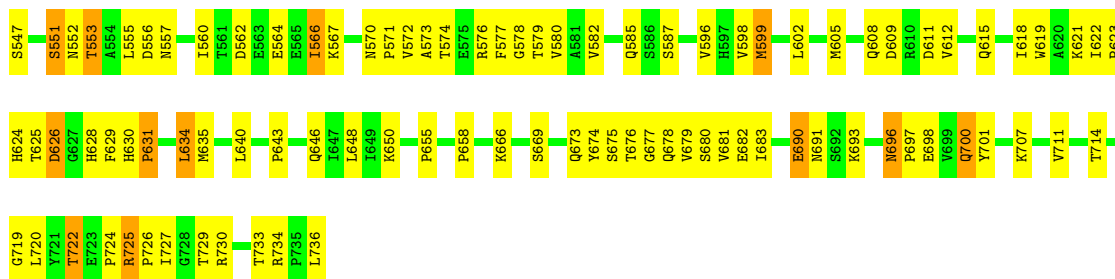
Chain A:



• Molecule 1: Capsid protein VP1

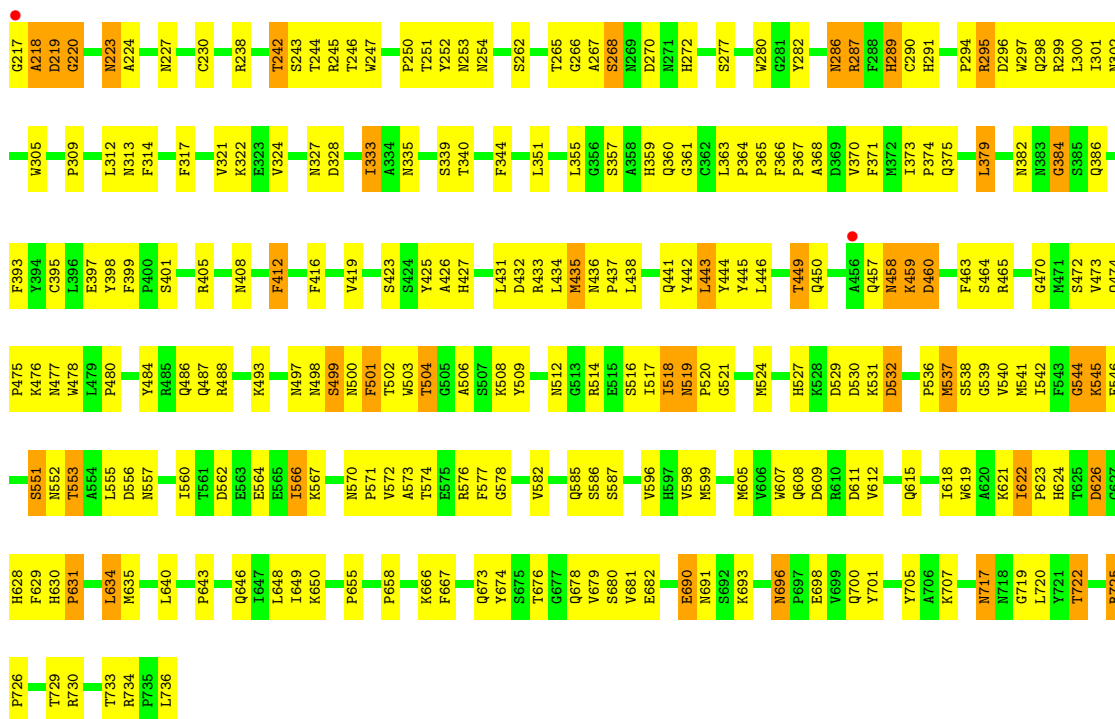
Chain B:





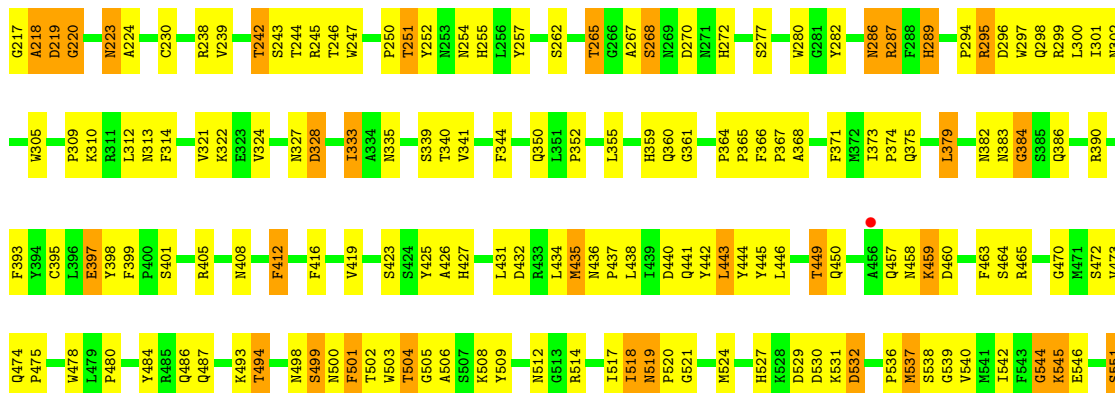
• Molecule 1: Capsid protein VP1

Chain C:



• Molecule 1: Capsid protein VP1

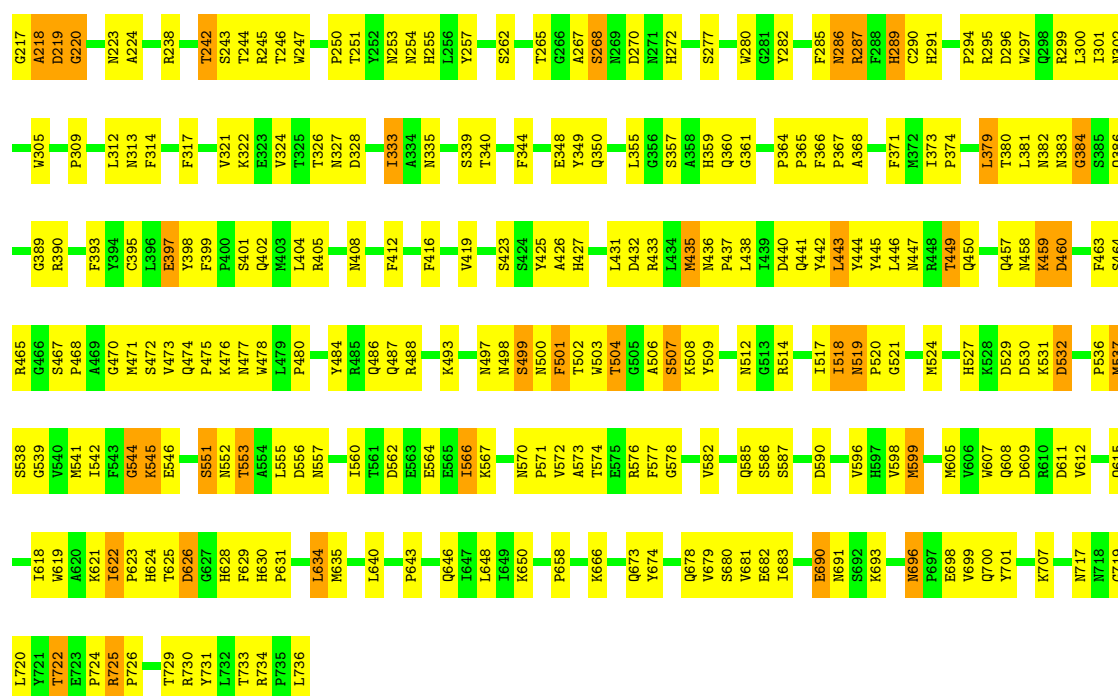
Chain D:





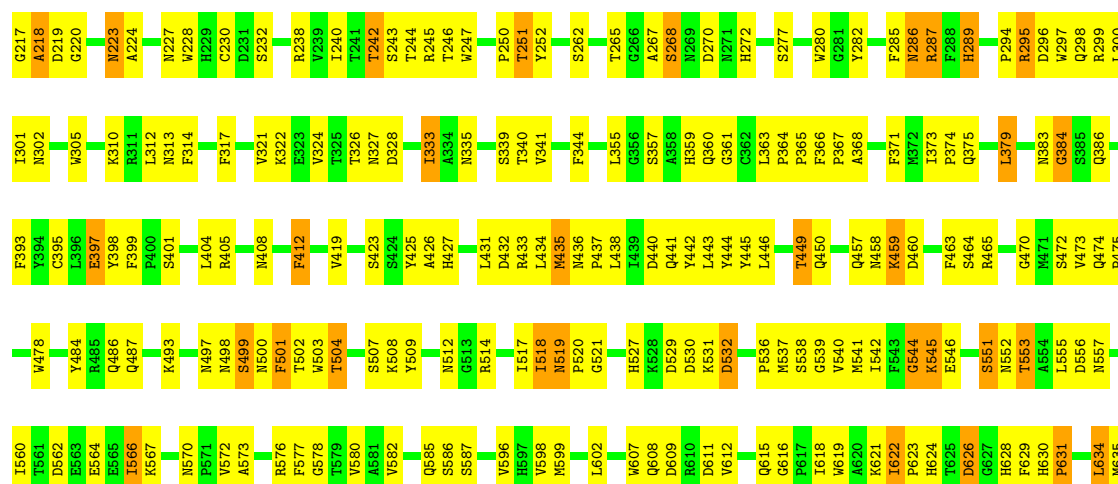
• Molecule 1: Capsid protein VP1

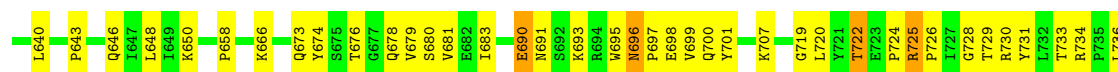
Chain E:



• Molecule 1: Capsid protein VP1

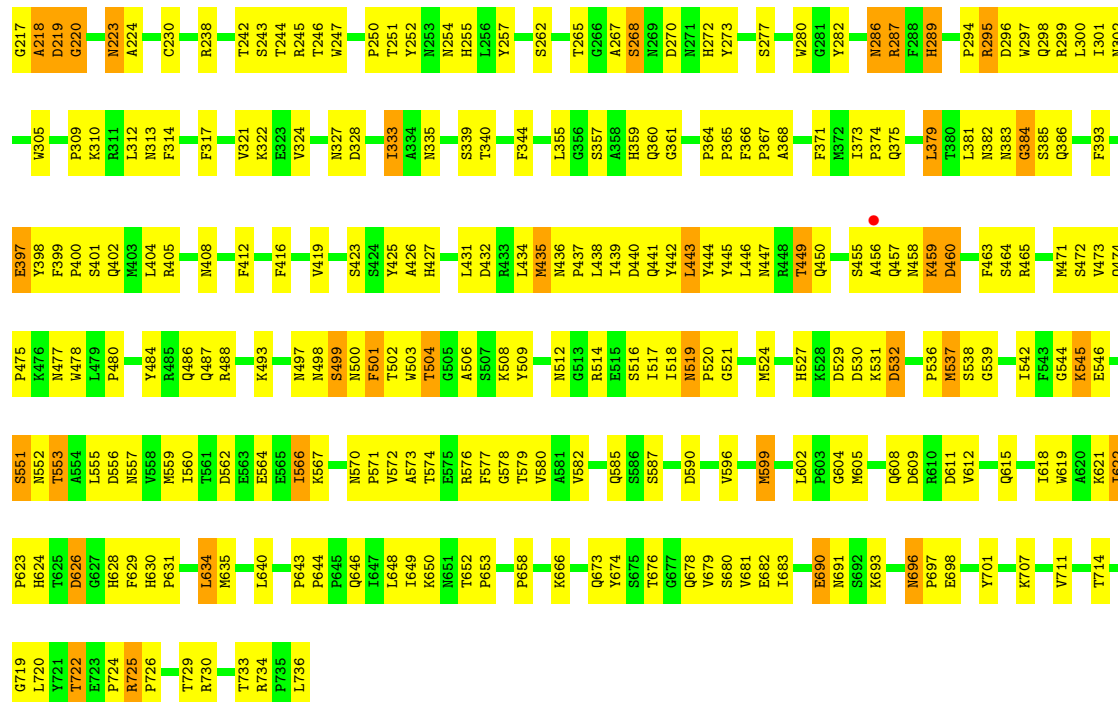
Chain F:





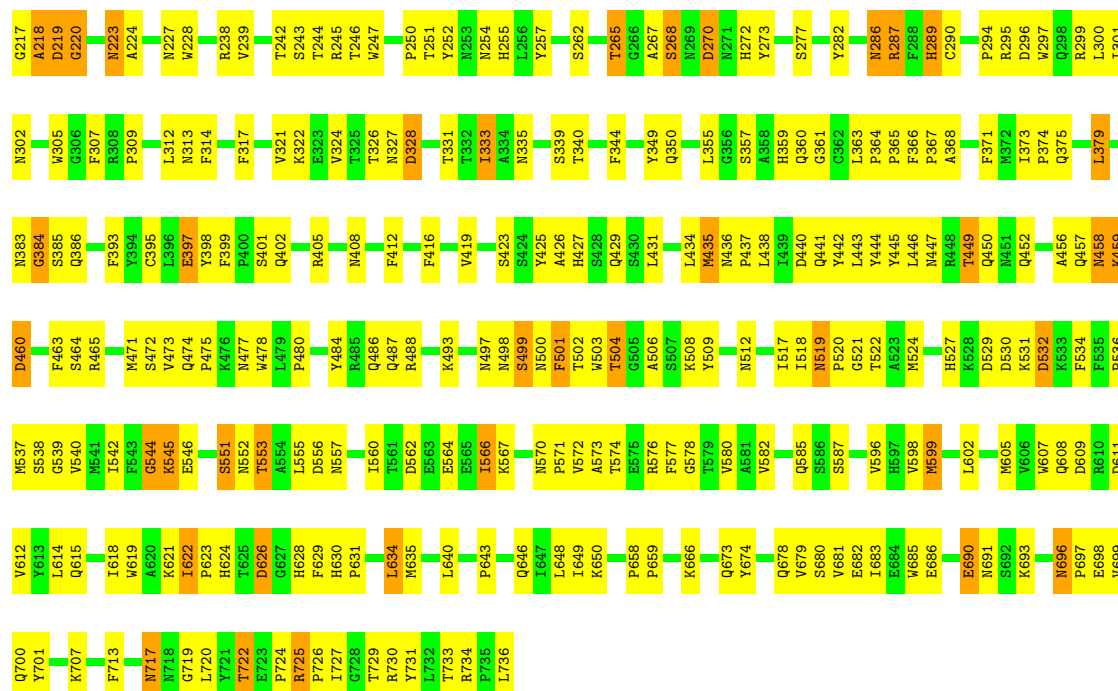
• Molecule 1: Capsid protein VP1

Chain G:



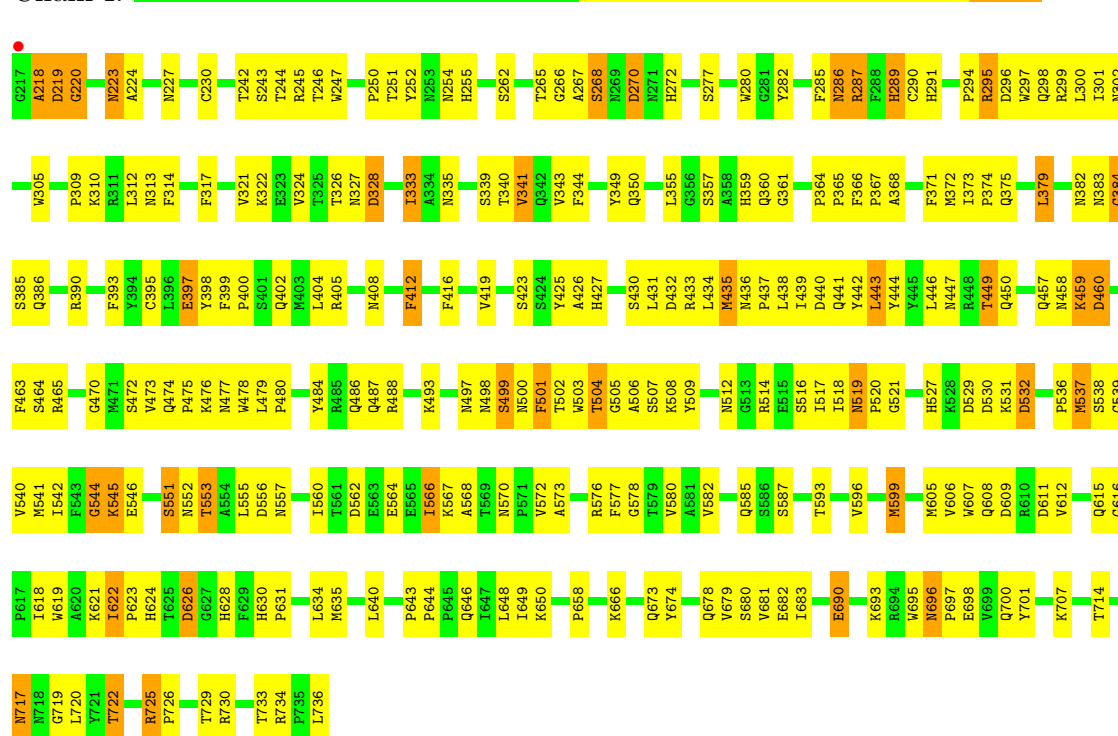
• Molecule 1: Capsid protein VP1

Chain H:



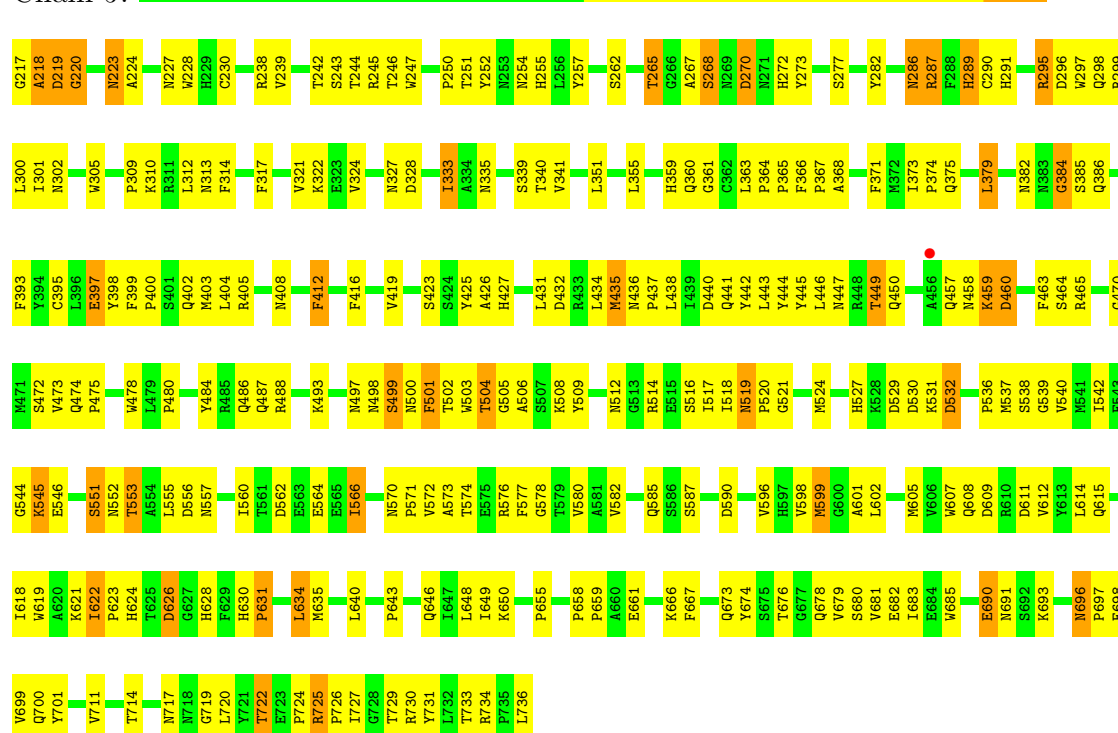
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Chain I:



- Molecule 1: Capsid protein VP1

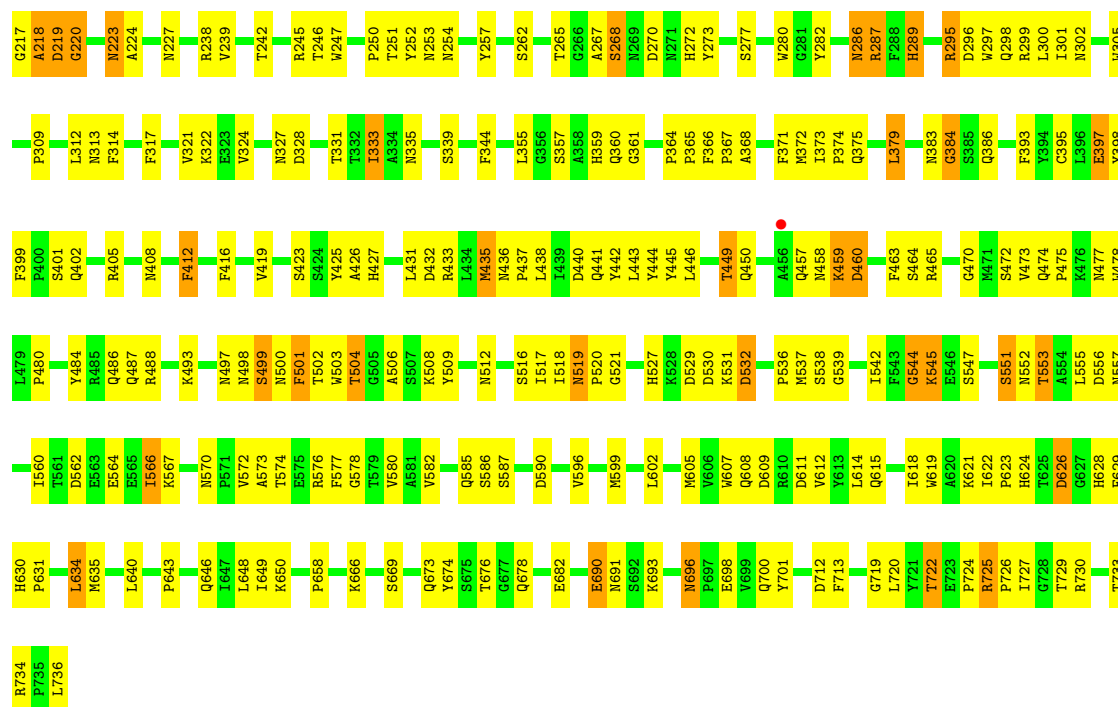
Chain J:



- Molecule 1: Capsid protein VP1

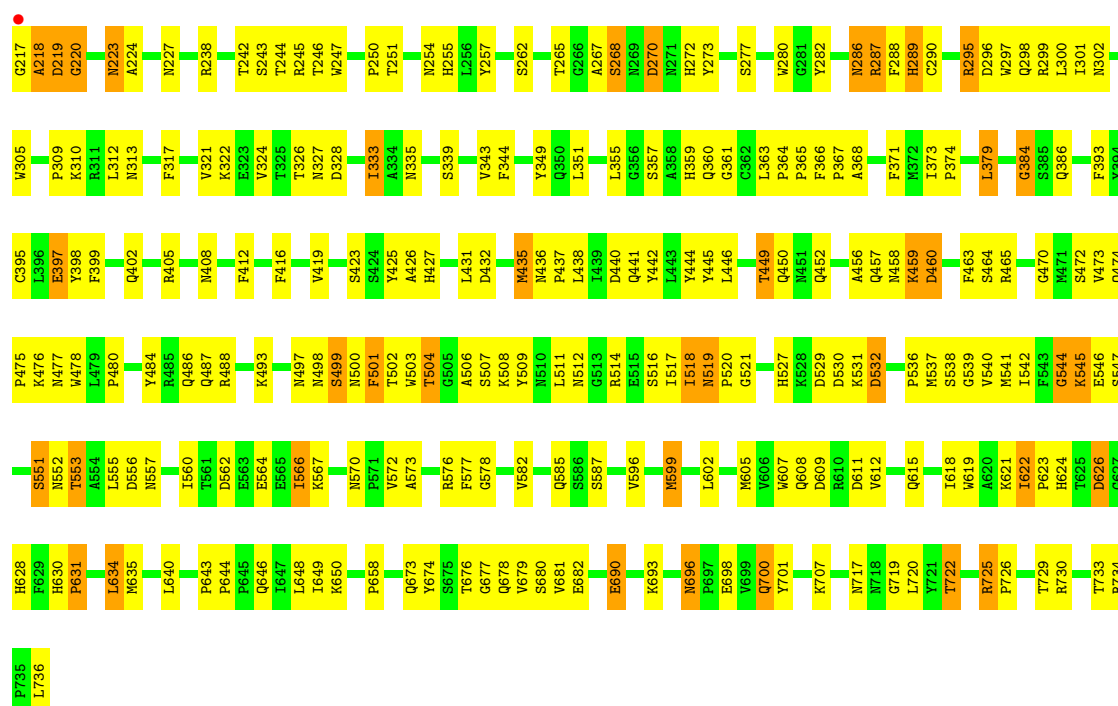
Chain K:





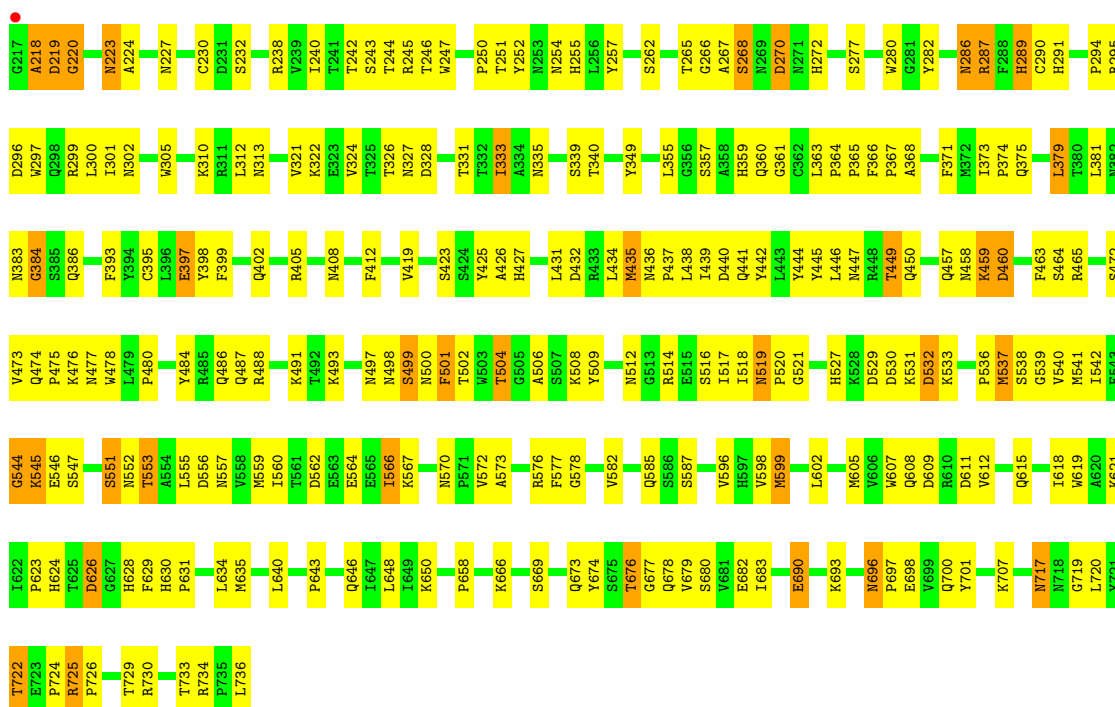
• Molecule 1: Capsid protein VP1

Chain L:



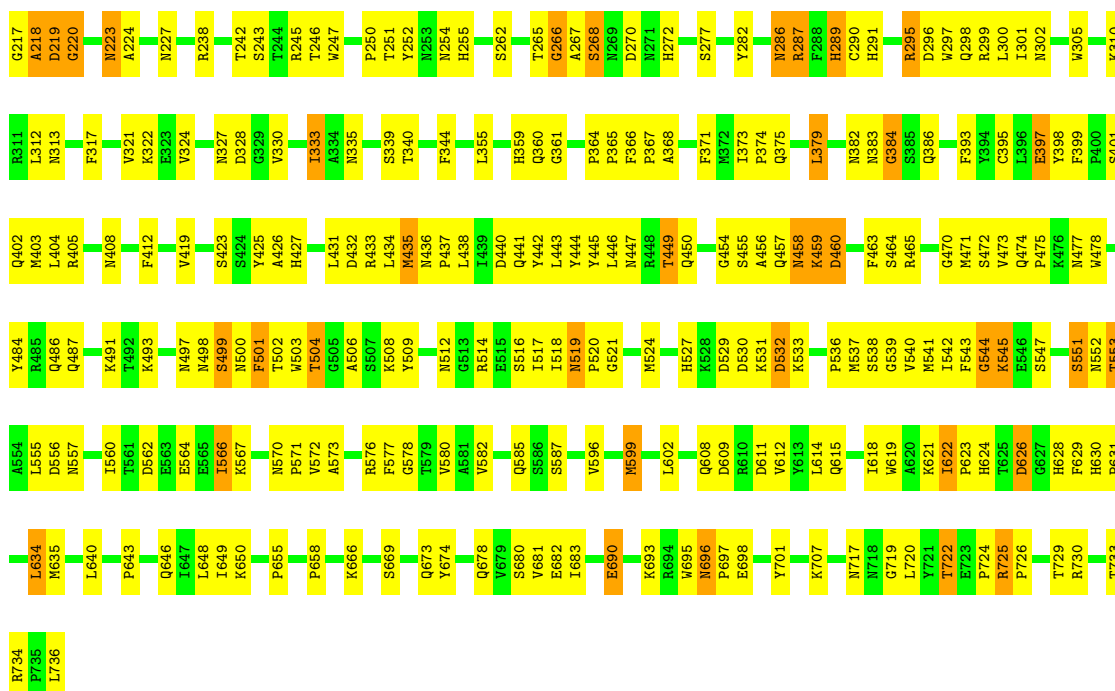
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Chain M:



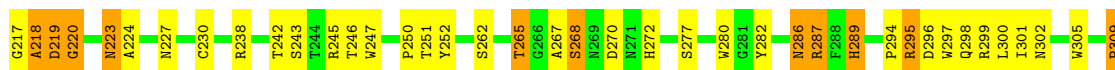
• Molecule 1: Capsid protein VP1

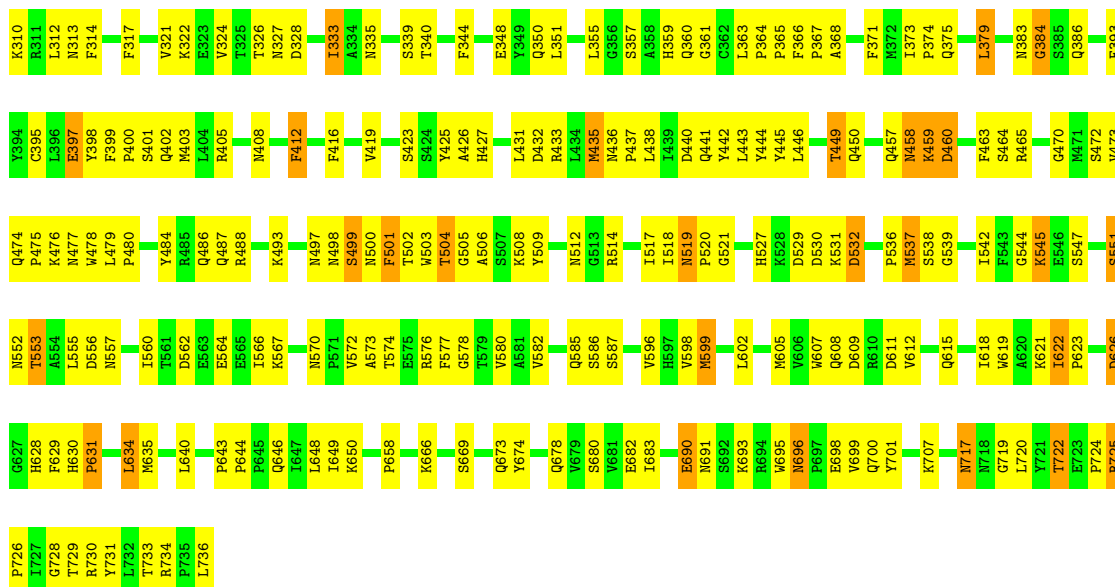
Chain N:



• Molecule 1: Capsid protein VP1

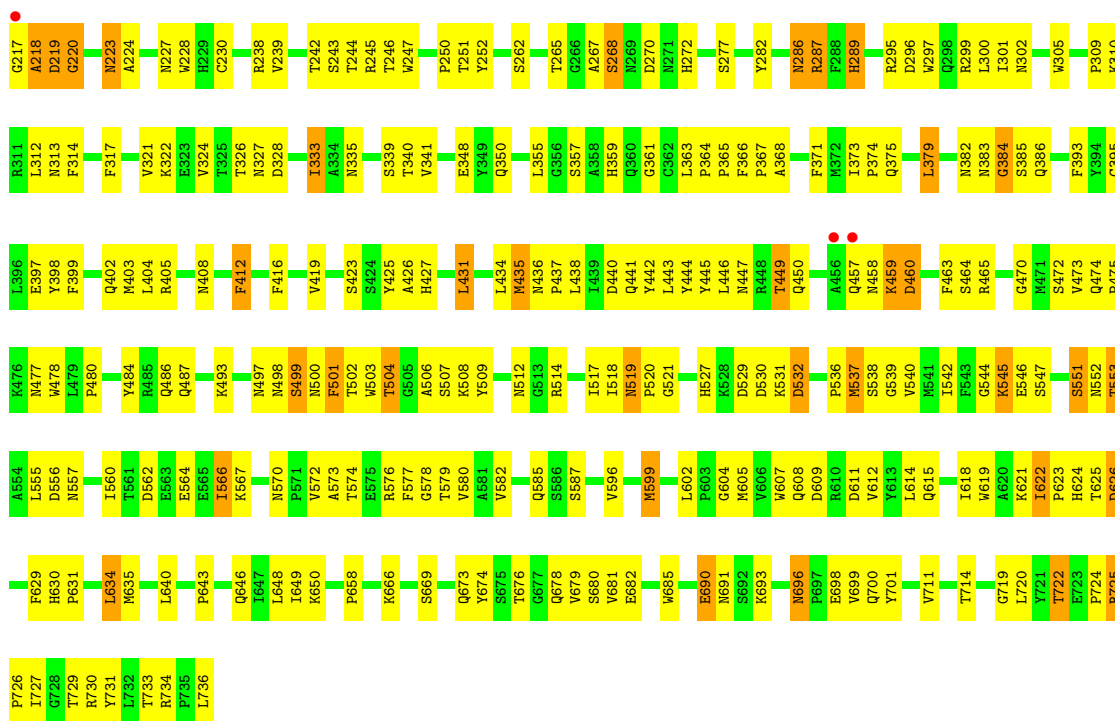
Chain O:





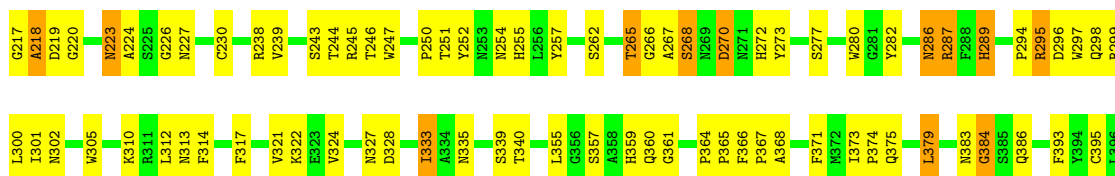
• Molecule 1: Capsid protein VP1

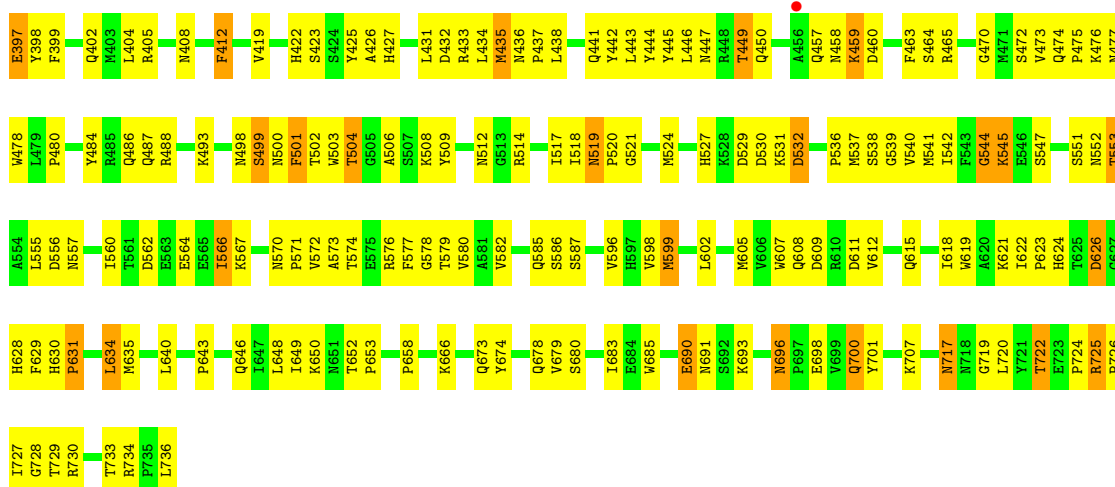
Chain P:



• Molecule 1: Capsid protein VP1

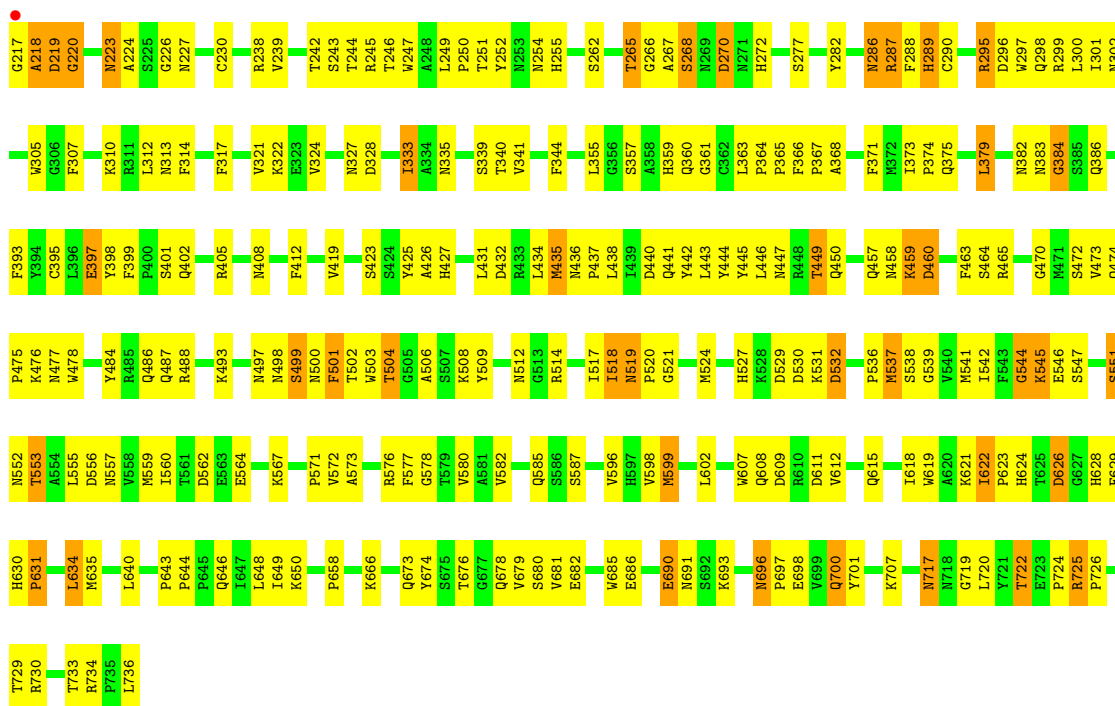
Chain Q:





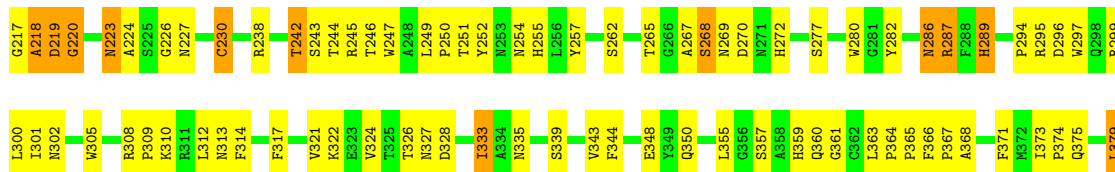
• Molecule 1: Capsid protein VP1

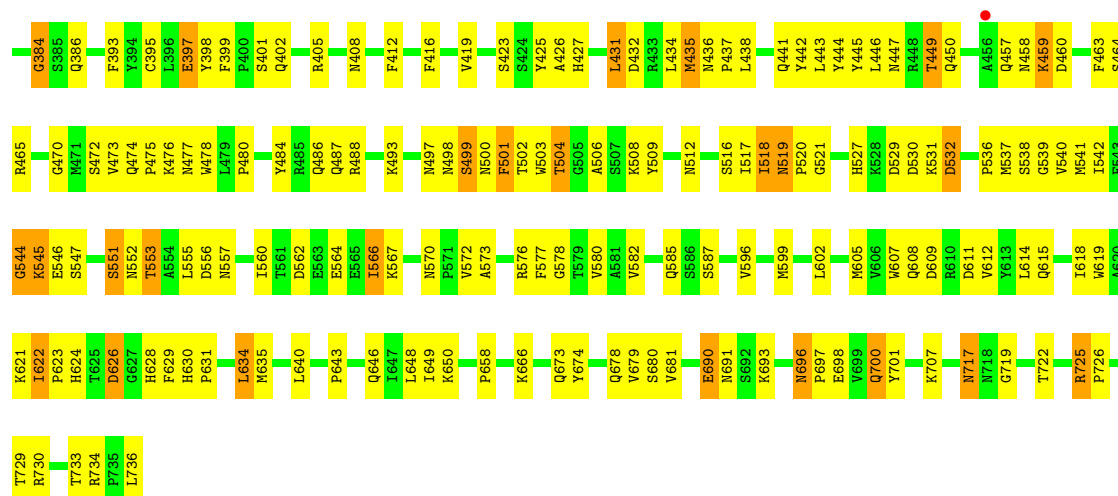
Chain R:



• Molecule 1: Capsid protein VP1

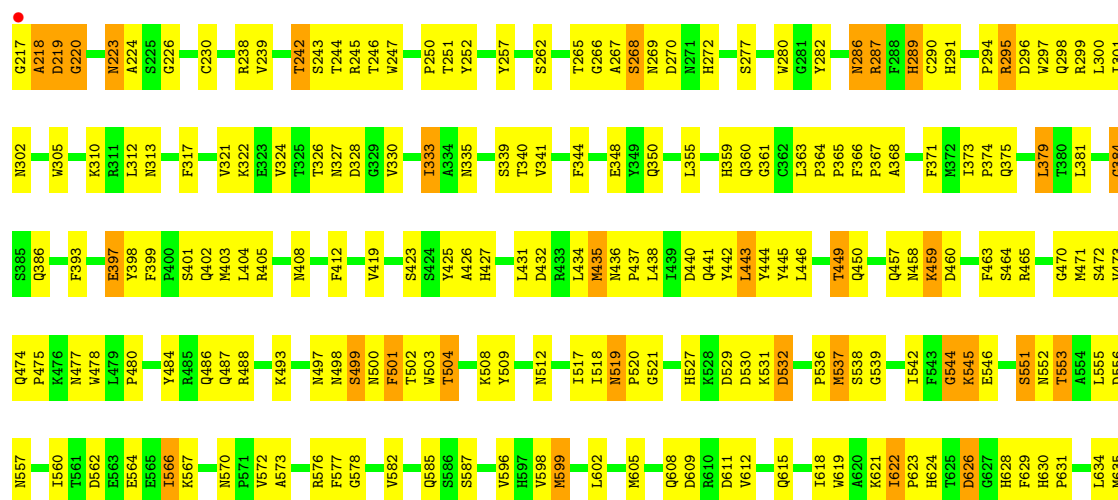
Chain S:





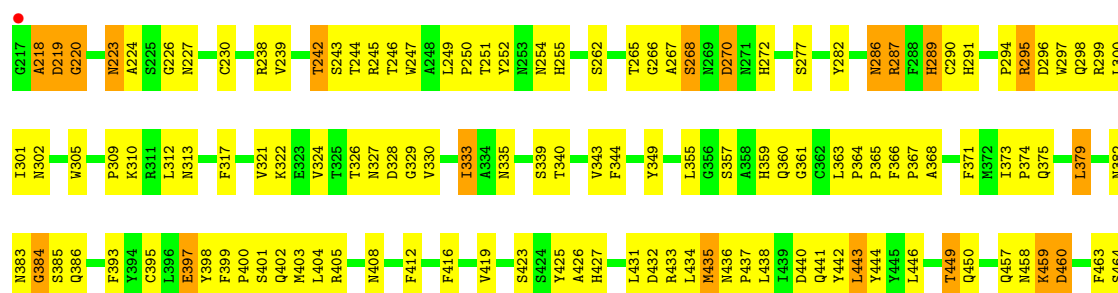
• Molecule 1: Capsid protein VP1

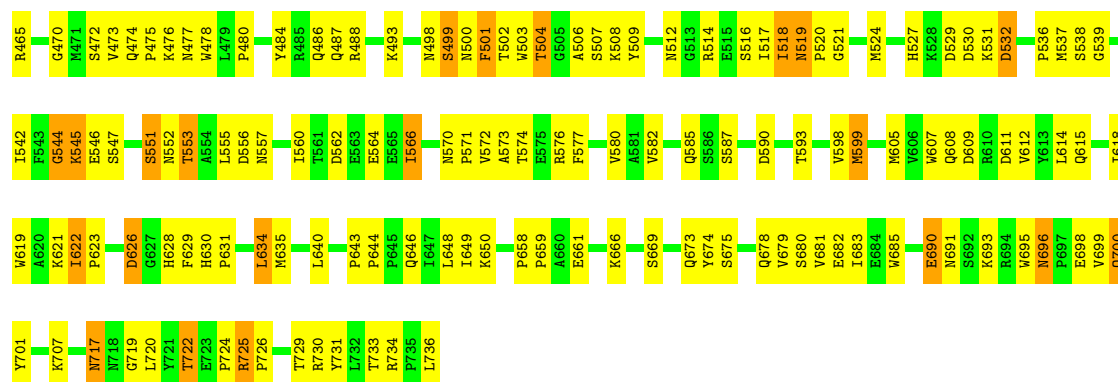
Chain T:



• Molecule 1: Capsid protein VP1

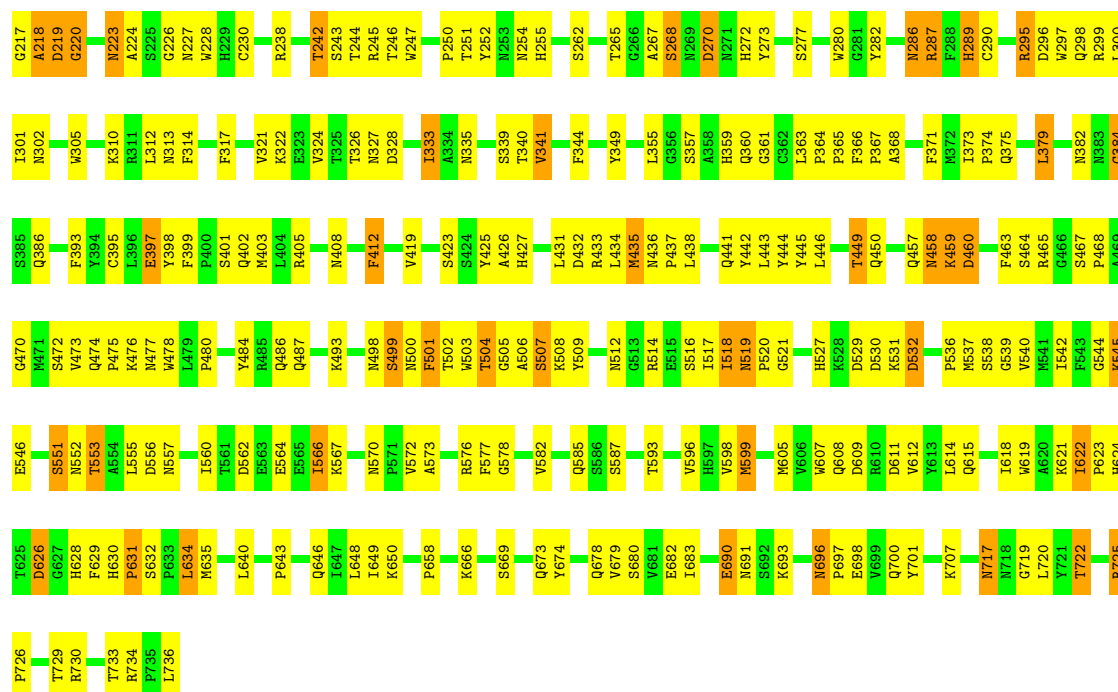
Chain U:





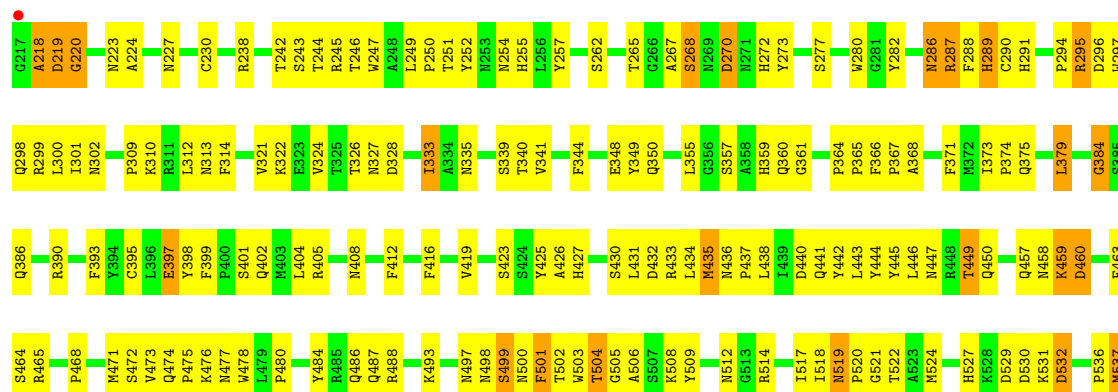
• Molecule 1: Capsid protein VP1

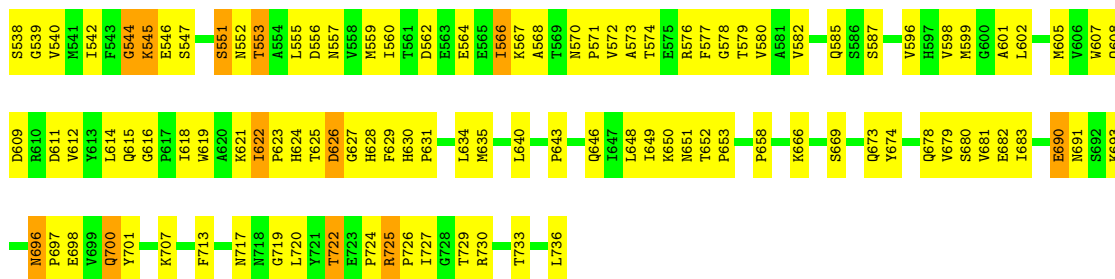
Chain V:



• Molecule 1: Capsid protein VP1

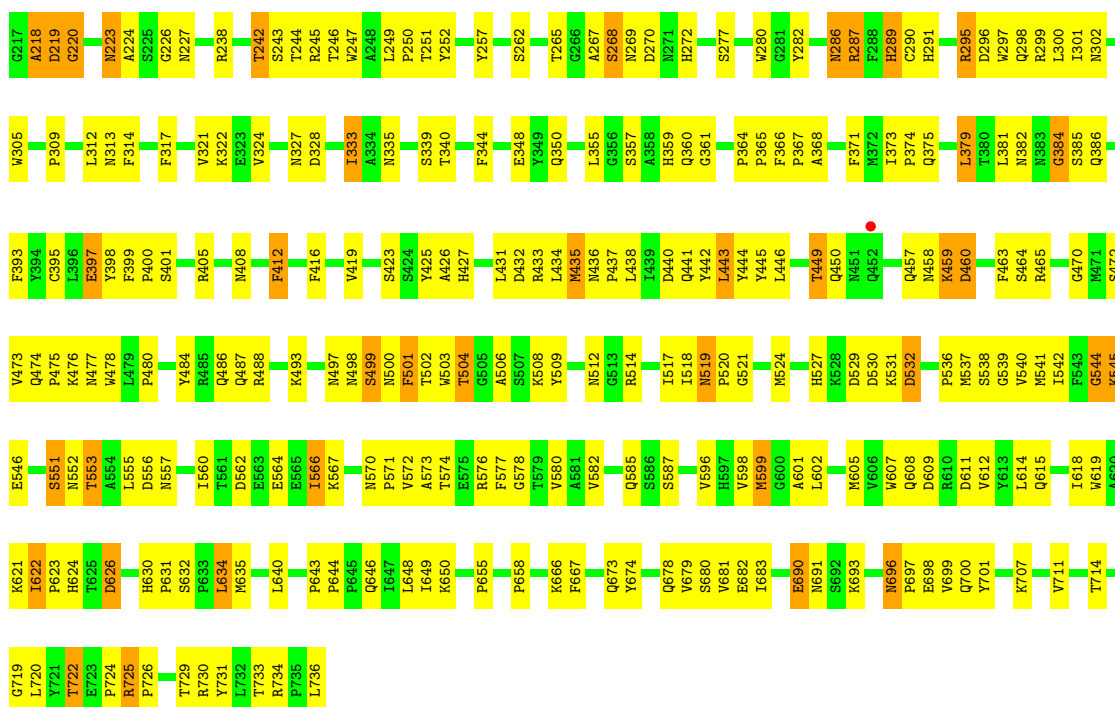
Chain W:





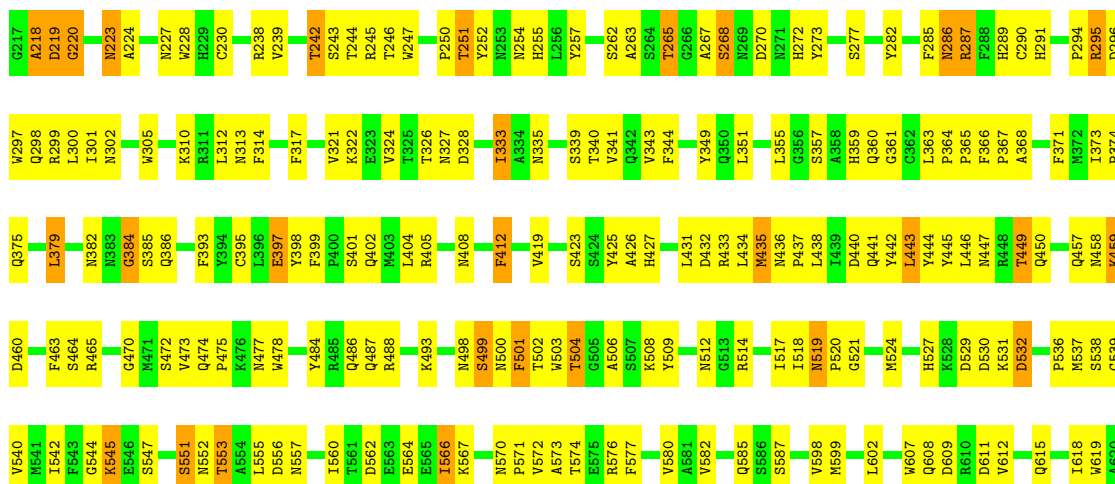
• Molecule 1: Capsid protein VP1

Chain X:

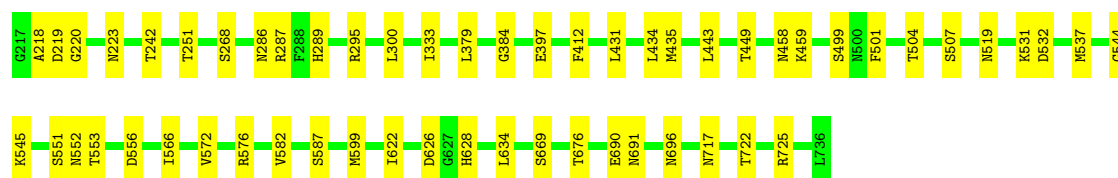


• Molecule 1: Capsid protein VP1

Chain Y:

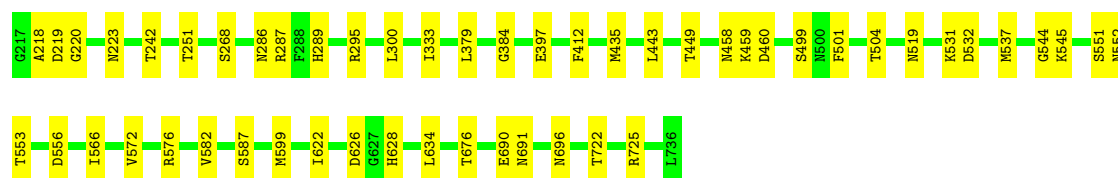


Chain c:



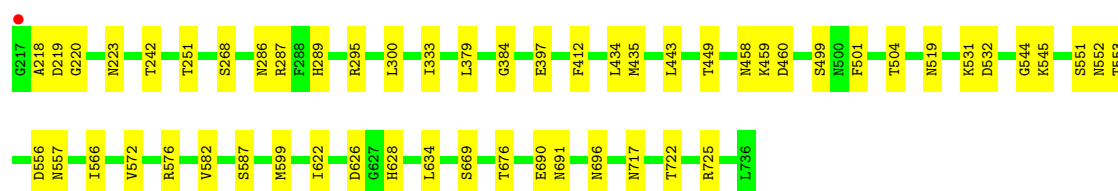
- Molecule 1: Capsid protein VP1

Chain d:



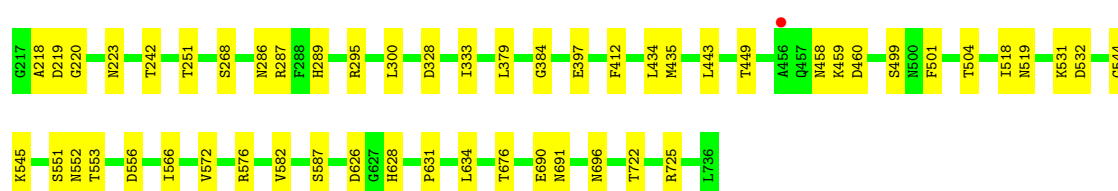
- Molecule 1: Capsid protein VP1

Chain e:



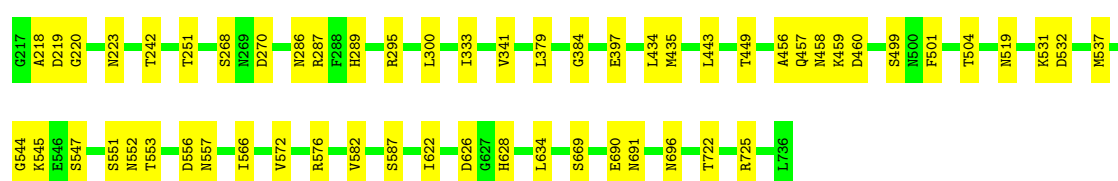
- Molecule 1: Capsid protein VP1

Chain f:



- Molecule 1: Capsid protein VP1

Chain g:



- Molecule 1: Capsid protein VP1

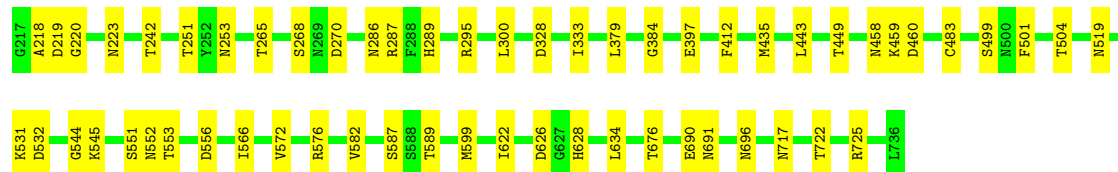
Chain h:





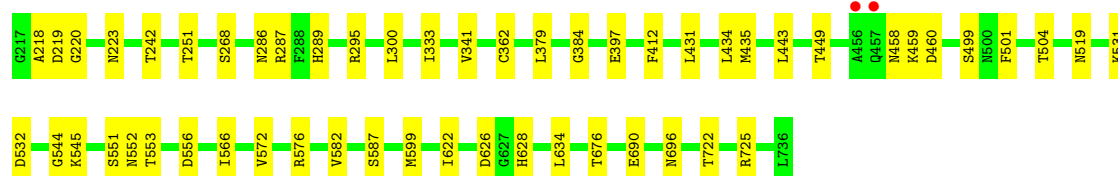
- Molecule 1: Capsid protein VP1

Chain i:



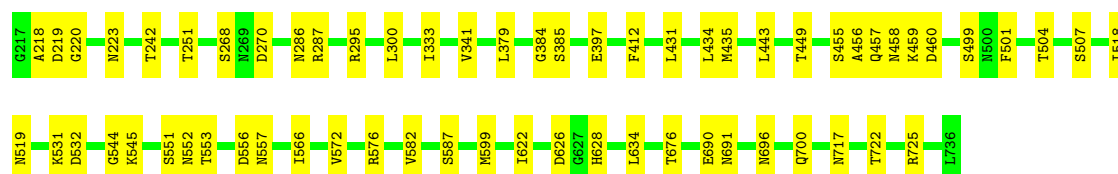
- Molecule 1: Capsid protein VP1

Chain j:



- Molecule 1: Capsid protein VP1

Chain k:



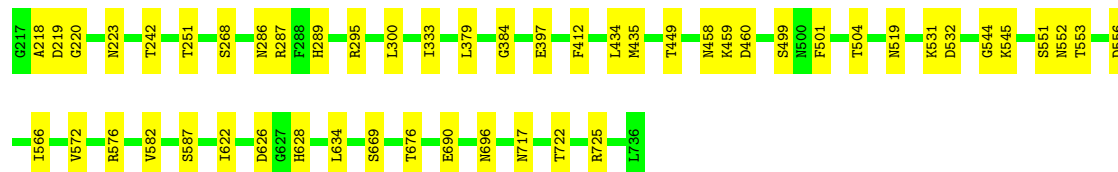
- Molecule 1: Capsid protein VP1

Chain l:

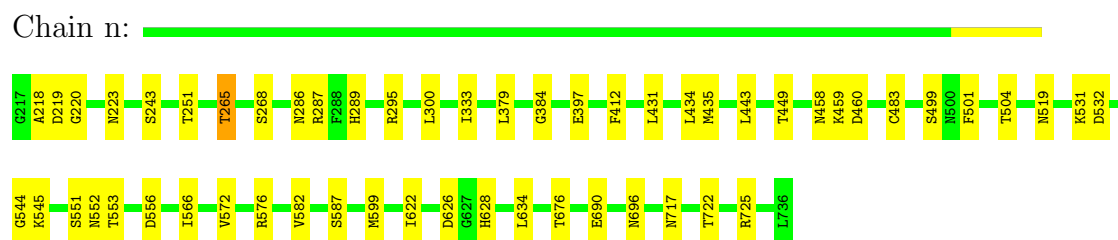


- Molecule 1: Capsid protein VP1

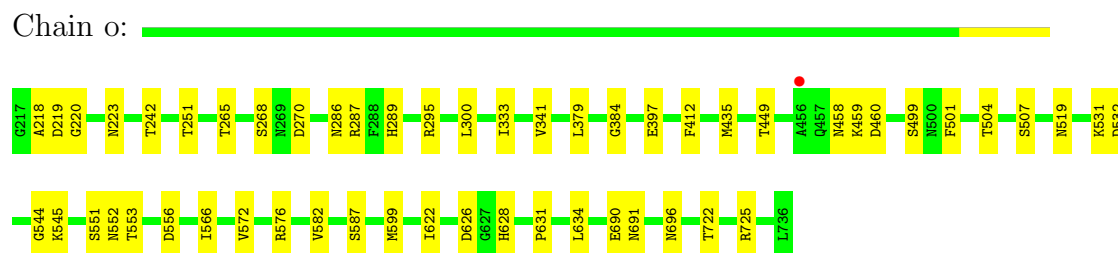
Chain m:



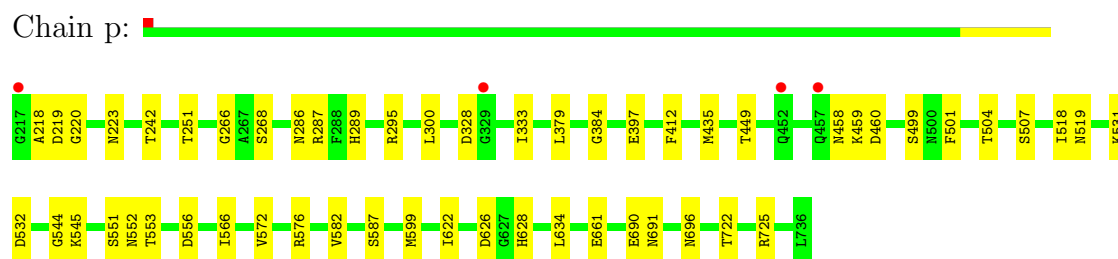
- Molecule 1: Capsid protein VP1



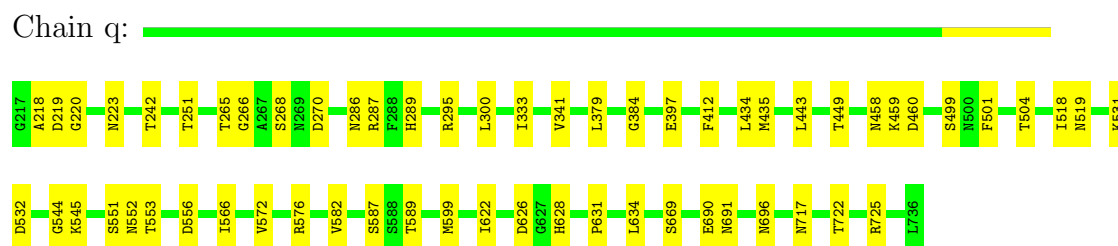
- Molecule 1: Capsid protein VP1



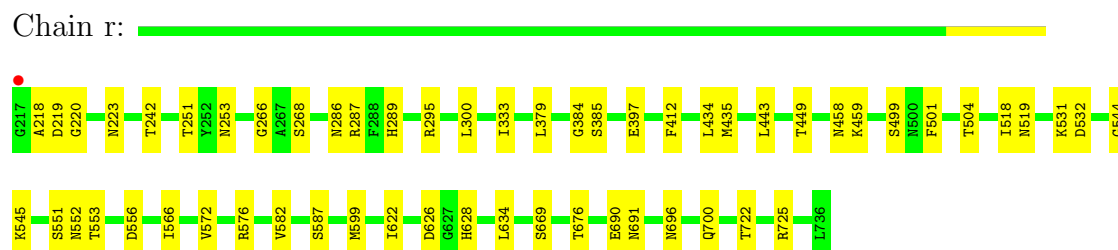
- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1

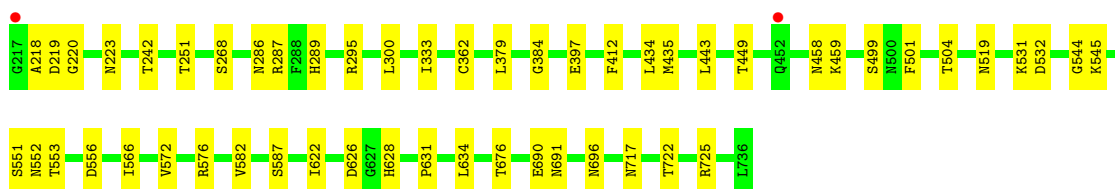


- Molecule 1: Capsid protein VP1



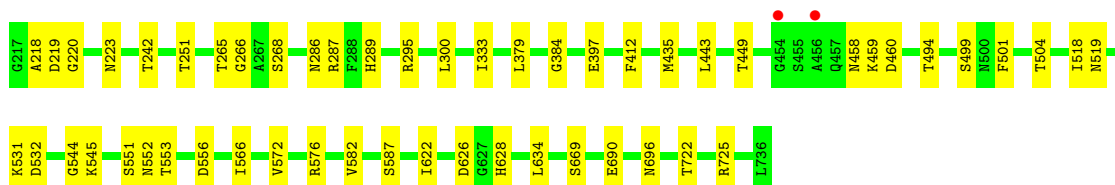
- Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1

Chain t:



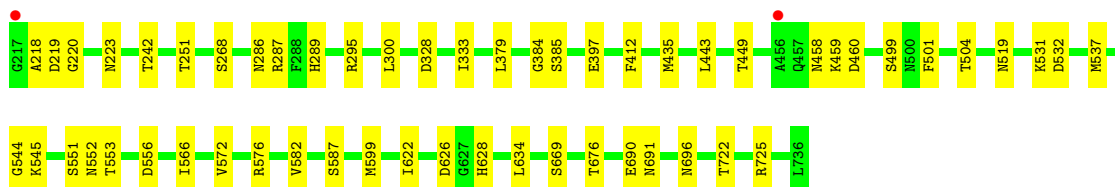
• Molecule 1: Capsid protein VP1

Chain u:



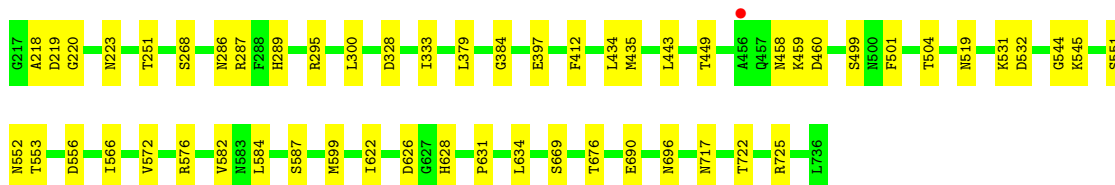
• Molecule 1: Capsid protein VP1

Chain v:



• Molecule 1: Capsid protein VP1

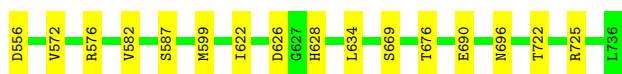
Chain w:



• Molecule 1: Capsid protein VP1

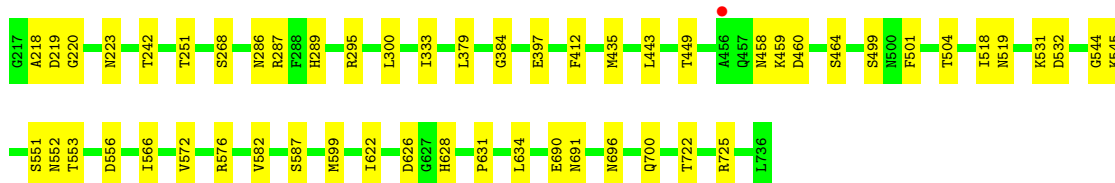
Chain x:





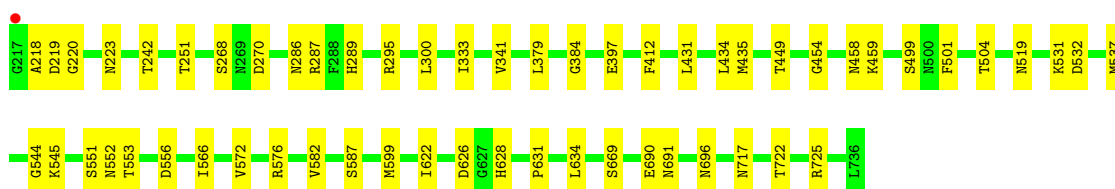
• Molecule 1: Capsid protein VP1

Chain y:



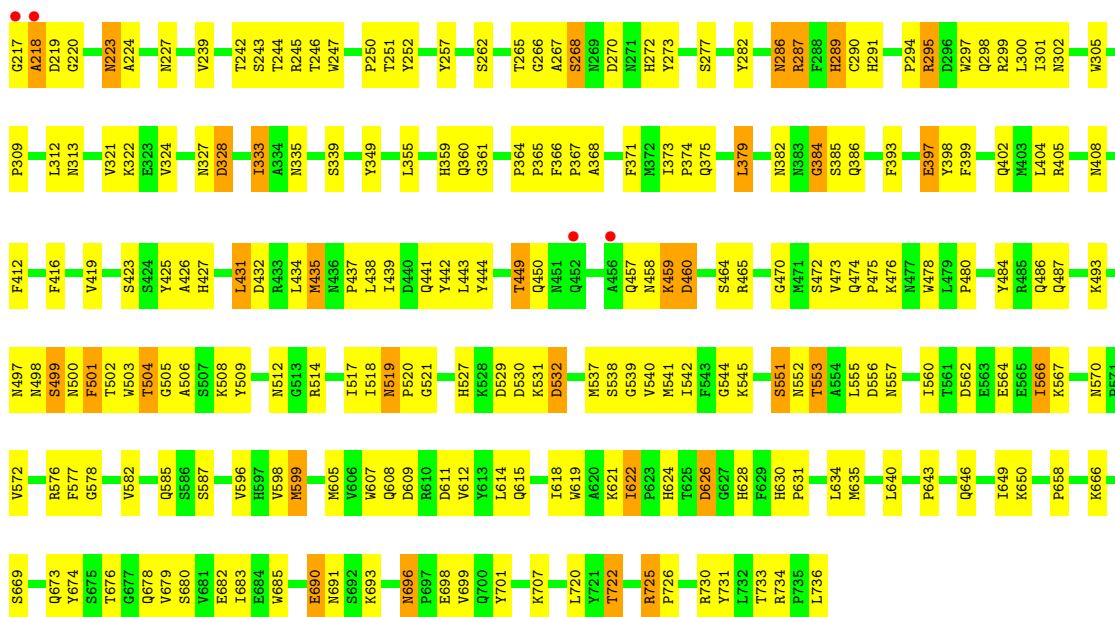
• Molecule 1: Capsid protein VP1

Chain z:



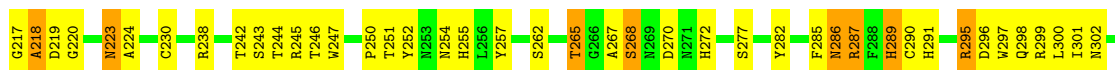
• Molecule 1: Capsid protein VP1

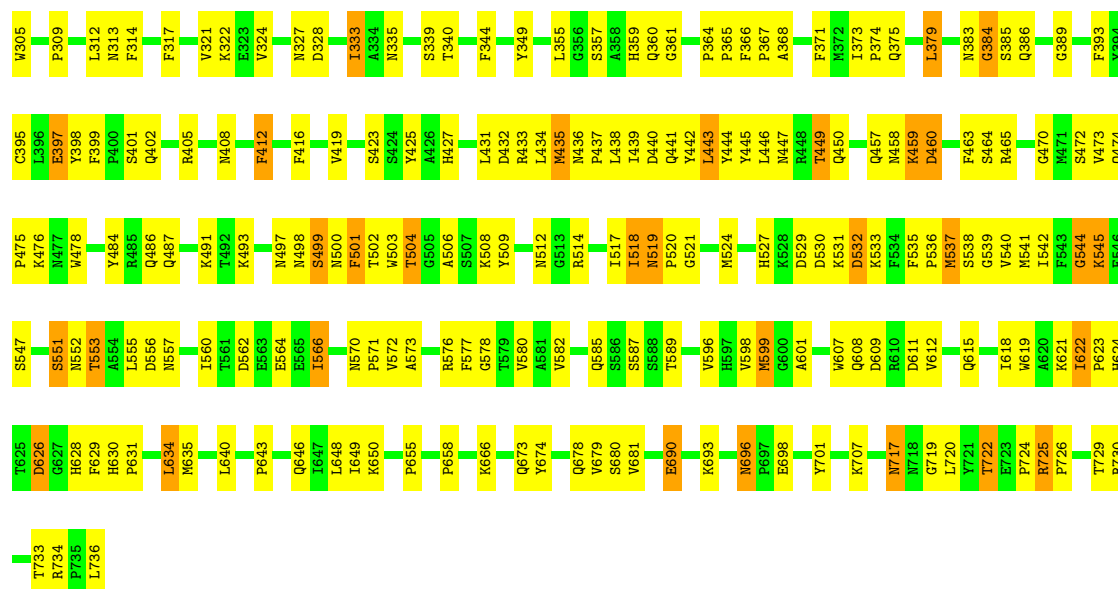
Chain 0:



• Molecule 1: Capsid protein VP1

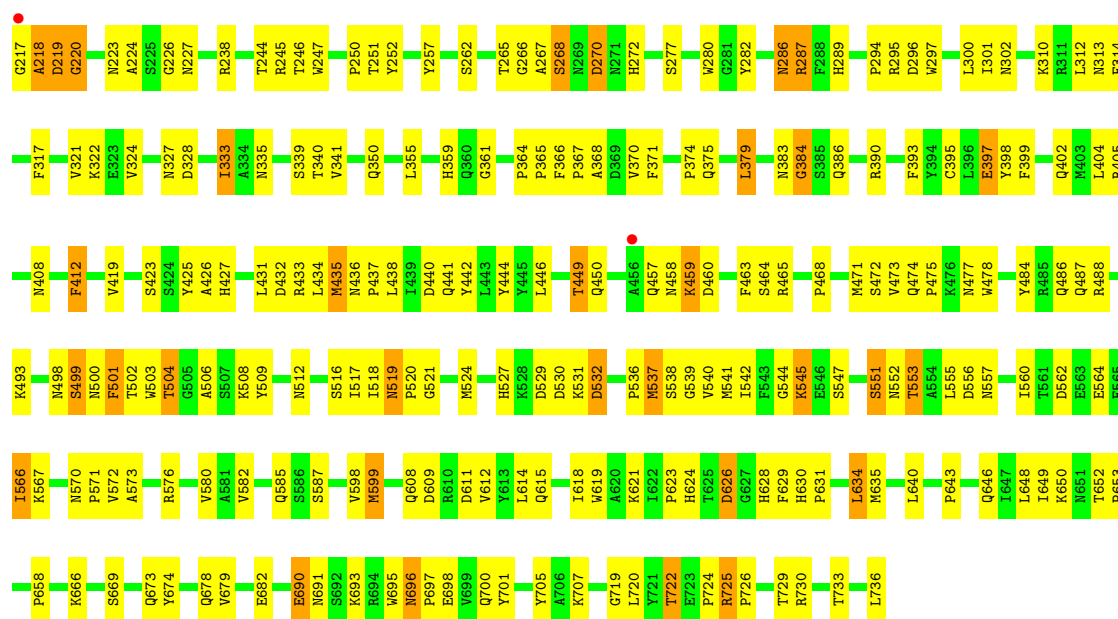
Chain 1:





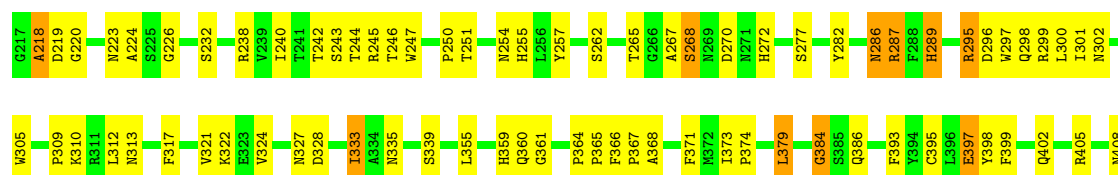
• Molecule 1: Capsid protein VP1

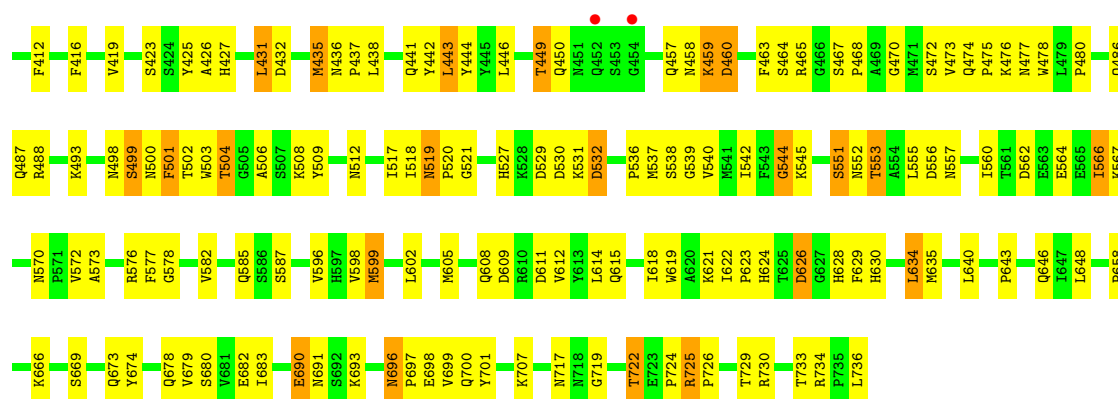
Chain 2:



• Molecule 1: Capsid protein VP1

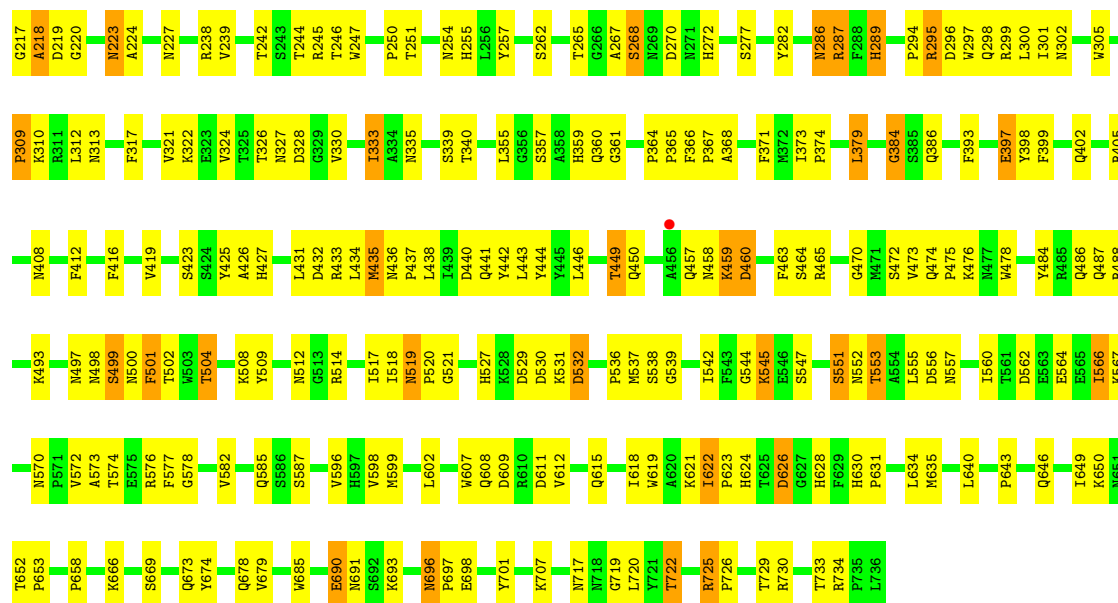
Chain 3:





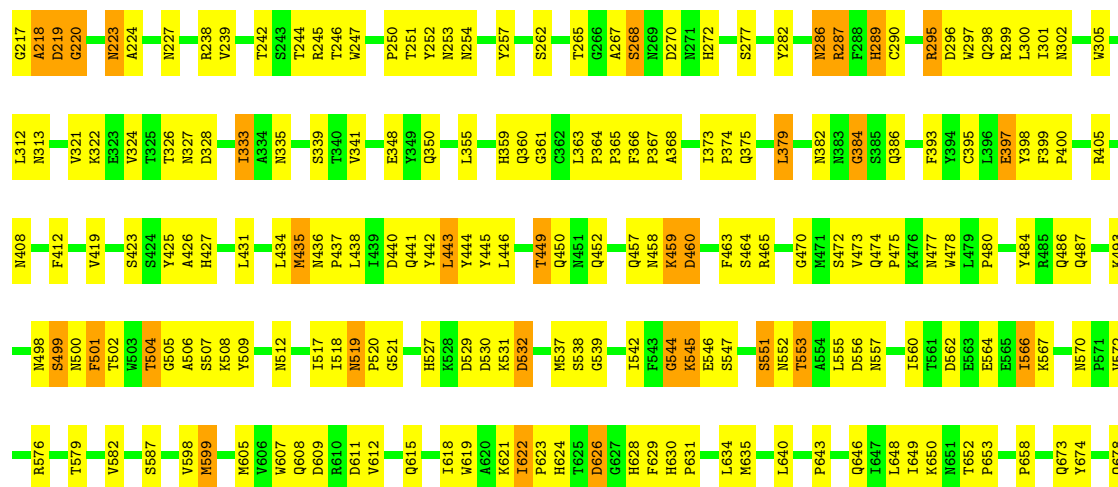
• Molecule 1: Capsid protein VP1

Chain 4:



• Molecule 1: Capsid protein VP1

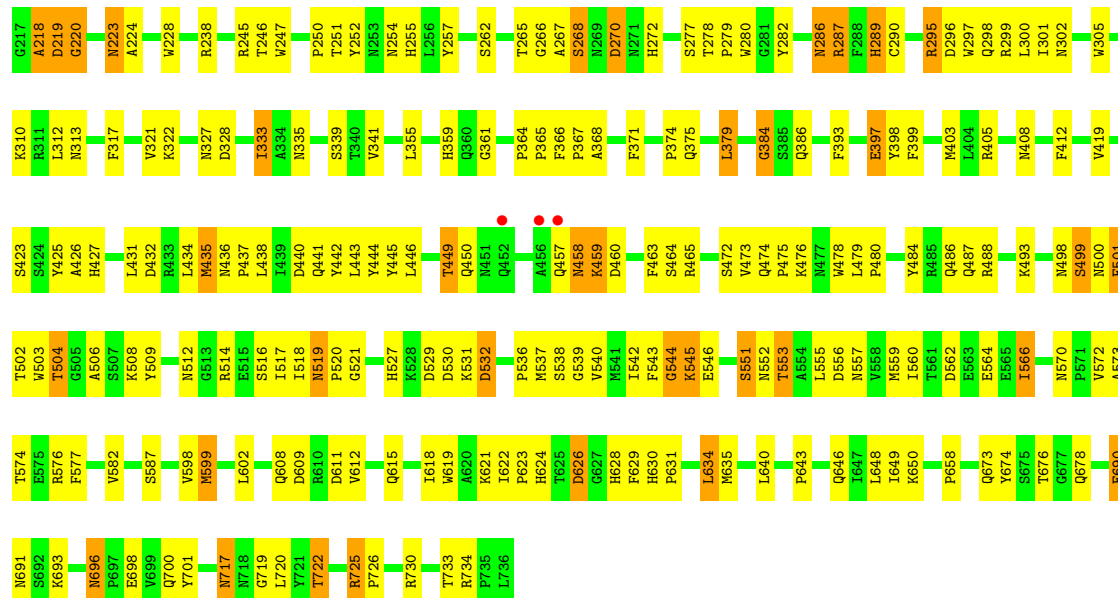
Chain 5:





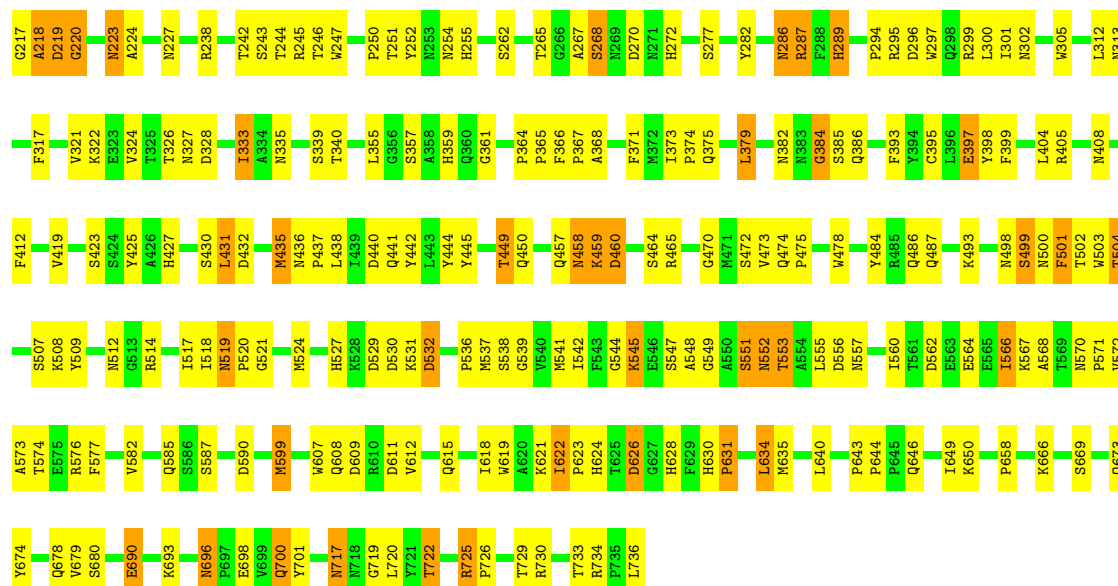
• Molecule 1: Capsid protein VP1

Chain 6:



• Molecule 1: Capsid protein VP1

Chain 7:



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	354.79Å 363.90Å 371.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.21 – 3.00 49.21 – 3.00	Depositor EDS
% Data completeness (in resolution range)	35.1 (49.21-3.00) 35.1 (49.21-3.00)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.09 (at 3.01Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.7.1_743)	Depositor
R, R_{free}	0.251 , 0.286 0.247 , 0.282	Depositor DCC
R_{free} test set	3254 reflections (0.98%)	DCC
Wilson B-factor (Å ²)	55.4	Xtriage
Anisotropy	0.389	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 20.0	EDS
Estimated twinning fraction	0.019 for -h,l,k 0.009 for -l,-k,-h 0.023 for k,h,-l 0.008 for k,l,h 0.008 for l,h,k	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	1 of 332221 reflections (0.000%)	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	247260	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.25% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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	0	0.60	0/4247	0.63	0/5790
1	1	0.63	0/4247	0.62	0/5790
1	2	0.56	0/4247	0.62	0/5790
1	3	0.55	0/4247	0.61	0/5790
1	4	0.54	0/4247	0.60	0/5790
1	5	0.59	0/4247	0.61	0/5790
1	6	0.62	0/4247	0.62	0/5790
1	7	0.55	0/4247	0.61	0/5790
1	A	0.68	0/4247	0.65	0/5790
1	B	0.66	0/4247	0.63	0/5790
1	C	0.58	0/4247	0.62	0/5790
1	D	0.60	2/4247 (0.0%)	0.63	2/5790 (0.0%)
1	E	0.65	0/4247	0.64	0/5790
1	F	0.62	0/4247	0.64	0/5790
1	G	0.58	0/4247	0.60	0/5790
1	H	0.56	0/4247	0.61	0/5790
1	I	0.65	0/4247	0.64	0/5790
1	J	0.70	0/4247	0.65	0/5790
1	K	0.58	0/4247	0.61	0/5790
1	L	0.55	0/4247	0.60	0/5790
1	M	0.55	0/4247	0.59	0/5790
1	N	0.57	0/4247	0.60	0/5790
1	O	0.56	1/4247 (0.0%)	0.60	0/5790
1	P	0.57	0/4247	0.62	0/5790
1	Q	0.56	0/4247	0.62	0/5790
1	R	0.56	0/4247	0.61	0/5790
1	S	0.63	1/4247 (0.0%)	0.62	0/5790
1	T	0.61	0/4247	0.61	0/5790
1	U	0.62	0/4247	0.63	0/5790
1	V	0.62	0/4247	0.62	0/5790
1	W	0.69	0/4247	0.64	0/5790
1	X	0.69	0/4247	0.65	0/5790
1	Y	0.64	0/4247	0.64	0/5790
1	Z	0.59	0/4247	0.62	0/5790

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.55	0/4247	0.61	0/5790
1	b	0.57	0/4247	0.60	0/5790
1	c	0.54	0/4247	0.62	0/5790
1	d	0.55	0/4247	0.61	0/5790
1	e	0.57	0/4247	0.61	0/5790
1	f	0.52	0/4247	0.60	0/5790
1	g	0.60	0/4247	0.62	0/5790
1	h	0.59	0/4247	0.61	0/5790
1	i	0.55	1/4247 (0.0%)	0.60	0/5790
1	j	0.58	1/4247 (0.0%)	0.61	0/5790
1	k	0.59	0/4247	0.61	0/5790
1	l	0.59	0/4247	0.60	0/5790
1	m	0.66	0/4247	0.63	0/5790
1	n	0.63	1/4247 (0.0%)	0.62	0/5790
1	o	0.53	0/4247	0.60	0/5790
1	p	0.58	0/4247	0.61	0/5790
1	q	0.55	0/4247	0.61	0/5790
1	r	0.55	0/4247	0.60	0/5790
1	s	0.55	1/4247 (0.0%)	0.61	0/5790
1	t	0.55	0/4247	0.60	0/5790
1	u	0.54	0/4247	0.59	0/5790
1	v	0.55	0/4247	0.60	0/5790
1	w	0.56	0/4247	0.61	0/5790
1	x	0.55	0/4247	0.60	0/5790
1	y	0.56	0/4247	0.61	0/5790
1	z	0.56	0/4247	0.61	0/5790
All	All	0.59	8/254820 (0.0%)	0.62	2/347400 (0.0%)

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	362	CYS	CB-SG	-6.32	1.71	1.82
1	s	362	CYS	CB-SG	-6.18	1.71	1.82
1	S	230	CYS	CB-SG	-6.04	1.72	1.82
1	n	483	CYS	CB-SG	-5.67	1.72	1.81
1	D	494	THR	CB-CG2	5.50	1.70	1.52
1	O	230	CYS	CB-SG	-5.44	1.73	1.81
1	D	494	THR	CA-CB	-5.10	1.40	1.53
1	i	483	CYS	CB-SG	-5.08	1.73	1.81

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	494	THR	CA-CB-CG2	-5.89	104.15	112.40
1	D	494	THR	CB-CA-C	-5.82	95.88	111.60

There are no chirality outliers.

There are no planarity outliers.

5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	4121	0	3896	252	0
1	1	4121	0	3896	285	0
1	2	4121	0	3896	267	0
1	3	4121	0	3896	252	0
1	4	4121	0	3896	245	0
1	5	4121	0	3896	242	2
1	6	4121	0	3896	244	0
1	7	4121	0	3896	244	5
1	A	4121	0	3896	415	1
1	B	4121	0	3896	392	0
1	C	4121	0	3896	379	0
1	D	4121	0	3896	369	5
1	E	4121	0	3896	407	0
1	F	4121	0	3896	377	0
1	G	4121	0	3896	342	0
1	H	4121	0	3896	403	0
1	I	4121	0	3896	403	0
1	J	4121	0	3896	418	0
1	K	4121	0	3896	341	4
1	L	4121	0	3896	334	0
1	M	4121	0	3896	373	0
1	N	4121	0	3896	383	5
1	O	4121	0	3896	397	0
1	P	4121	0	3896	381	0
1	Q	4121	0	3896	385	0
1	R	4121	0	3896	362	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	S	4121	0	3896	385	0
1	T	4121	0	3896	384	1
1	U	4121	0	3896	396	5
1	V	4121	0	3896	391	0
1	W	4121	0	3896	416	0
1	X	4121	0	3896	403	0
1	Y	4121	0	3896	402	0
1	Z	4121	0	3896	403	0
1	a	4121	0	3896	0	0
1	b	4121	0	3896	0	0
1	c	4121	0	3896	0	0
1	d	4121	0	3896	0	0
1	e	4121	0	3896	0	0
1	f	4121	0	3896	0	0
1	g	4121	0	3896	0	6
1	h	4121	0	3896	0	0
1	i	4121	0	3896	0	0
1	j	4121	0	3896	0	0
1	k	4121	0	3896	0	3
1	l	4121	0	3896	0	2
1	m	4121	0	3896	0	0
1	n	4121	0	3896	0	1
1	o	4121	0	3896	0	0
1	p	4121	0	3896	0	2
1	q	4121	0	3896	0	0
1	r	4121	0	3896	0	0
1	s	4121	0	3896	0	0
1	t	4121	0	3896	0	1
1	u	4121	0	3896	0	0
1	v	4121	0	3896	0	0
1	w	4121	0	3896	0	0
1	x	4121	0	3896	0	0
1	y	4121	0	3896	0	0
1	z	4121	0	3896	0	1
All	All	247260	0	233760	9007	22

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 19.

All (9007) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:464:SER:HB3	1:G:551:SER:HA	65.26	1.09

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:464:SER:HB3	1:T:551:SER:HA	177.77	1.09
1:G:551:SER:HA	1:4:464:SER:HB3	1.34	1.07
1:L:551:SER:HA	1:U:464:SER:HB3	175.30	1.05
1:H:551:SER:HA	1:W:464:SER:HB3	134.67	1.05
1:B:551:SER:HA	1:P:464:SER:HB3	211.79	1.04
1:R:551:SER:HA	1:7:464:SER:HB3	1.37	1.04
1:K:464:SER:HB3	1:T:551:SER:HA	1.40	1.03
1:O:551:SER:HA	1:P:464:SER:HB3	1.41	1.03
1:K:551:SER:HA	1:L:464:SER:HB3	91.62	1.03
1:N:464:SER:HB3	1:5:551:SER:HA	242.96	1.03
1:D:551:SER:HA	1:H:464:SER:HB3	208.14	1.02
1:C:551:SER:HA	1:R:464:SER:HB3	238.57	1.02
1:B:464:SER:HB3	1:P:551:SER:HA	211.94	1.02
1:J:551:SER:HA	1:V:464:SER:HB3	146.40	1.01
1:O:464:SER:HB3	1:X:551:SER:HA	181.81	1.01
1:C:393:PHE:H	1:X:696:ASN:HD21	144.66	1.01
1:K:464:SER:HB3	1:U:551:SER:HA	213.22	1.01
1:M:551:SER:HA	1:S:464:SER:HB3	200.12	1.01
1:Y:464:SER:HB3	1:7:551:SER:HA	141.31	1.01
1:A:393:PHE:H	1:W:696:ASN:HD21	1.07	1.01
1:J:696:ASN:HD21	1:W:393:PHE:H	1.01	1.00
1:M:393:PHE:H	1:6:696:ASN:HD21	165.62	1.00
1:M:551:SER:HA	1:6:464:SER:HB3	161.68	1.00
1:Y:696:ASN:HD21	1:0:393:PHE:H	1.00	0.99
1:E:551:SER:HA	1:5:464:SER:HB3	136.16	0.99
1:A:464:SER:HB3	1:Z:551:SER:HA	164.71	0.99
1:2:551:SER:HA	1:3:464:SER:HB3	1.39	0.99
1:S:464:SER:HB3	1:6:551:SER:HA	1.44	0.99
1:Z:551:SER:HA	1:0:464:SER:HB3	1.41	0.99
1:I:551:SER:HA	1:J:464:SER:HB3	91.83	0.99
1:D:696:ASN:HD21	1:W:393:PHE:H	155.49	0.99
1:J:464:SER:HB3	1:W:551:SER:HA	1.44	0.99
1:D:696:ASN:HD21	1:Q:393:PHE:H	210.19	0.99
1:F:393:PHE:H	1:G:696:ASN:HD21	31.94	0.98
1:E:464:SER:HB3	1:N:551:SER:HA	233.79	0.98
1:H:393:PHE:H	1:W:696:ASN:HD21	123.61	0.98
1:D:464:SER:HB3	1:Q:551:SER:HA	238.49	0.98
1:X:501:PHE:HE2	1:1:449:THR:HG1	1.01	0.98
1:D:501:PHE:HE2	1:U:449:THR:HG1	210.37	0.98
1:C:393:PHE:H	1:R:696:ASN:HD21	210.32	0.98
1:C:551:SER:HA	1:X:464:SER:HB3	180.81	0.98
1:D:393:PHE:H	1:H:696:ASN:HD21	145.97	0.98

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:696:ASN:HD21	1:T:393:PHE:H	128.72	0.98
1:K:696:ASN:HD21	1:U:393:PHE:H	178.58	0.98
1:F:551:SER:HA	1:G:464:SER:HB3	91.68	0.97
1:T:562:ASP:OD1	1:T:564:GLU:OE2	1.82	0.97
1:Y:224:ALA:H	1:2:408:ASN:HD21	91.37	0.97
1:Q:393:PHE:H	1:Z:696:ASN:HD21	130.57	0.97
1:O:696:ASN:HD21	1:X:393:PHE:H	145.67	0.97
1:D:501:PHE:HE2	1:H:449:THR:HG1	224.88	0.97
1:H:393:PHE:H	1:2:696:ASN:HD21	1.10	0.97
1:D:500:ASN:HA	1:U:449:THR:HG23	212.92	0.97
1:J:408:ASN:HD21	1:K:224:ALA:H	180.84	0.97
1:H:408:ASN:HD21	1:I:224:ALA:H	1.16	0.96
1:L:393:PHE:H	1:T:696:ASN:HD21	103.30	0.96
1:M:393:PHE:H	1:S:696:ASN:HD21	182.40	0.96
1:A:696:ASN:HD21	1:J:393:PHE:H	1.08	0.96
1:A:696:ASN:HD21	1:Z:393:PHE:H	165.78	0.96
1:C:464:SER:HB3	1:N:551:SER:HA	116.88	0.96
1:Z:393:PHE:H	1:O:696:ASN:HD21	1.13	0.96
1:R:696:ASN:HD21	1:Y:393:PHE:H	123.15	0.96
1:B:393:PHE:H	1:P:696:ASN:HD21	184.38	0.96
1:D:551:SER:HA	1:U:464:SER:HB3	200.25	0.95
1:N:464:SER:HB3	1:R:551:SER:HA	200.10	0.95
1:T:224:ALA:H	1:X:408:ASN:HD21	155.87	0.95
1:X:393:PHE:H	1:1:696:ASN:HD21	1.09	0.95
1:P:408:ASN:HD21	1:Q:224:ALA:H	1.18	0.95
1:C:464:SER:HB3	1:O:551:SER:HA	161.77	0.95
1:I:393:PHE:H	1:X:696:ASN:HD21	1.05	0.95
1:N:696:ASN:HD21	1:5:393:PHE:H	197.41	0.95
1:F:501:PHE:HE2	1:G:449:THR:HG1	102.26	0.95
1:S:408:ASN:HD21	1:T:224:ALA:H	1.13	0.95
1:H:464:SER:HB3	1:3:551:SER:HA	1.48	0.95
1:S:551:SER:HA	1:T:464:SER:HB3	91.74	0.95
1:P:551:SER:HA	1:V:464:SER:HB3	208.74	0.94
1:A:393:PHE:H	1:Q:696:ASN:HD21	184.47	0.94
1:K:393:PHE:H	1:L:696:ASN:HD21	31.98	0.94
1:S:696:ASN:HD21	1:6:393:PHE:H	1.11	0.94
1:I:551:SER:HA	1:X:464:SER:HB3	1.48	0.94
1:A:464:SER:HB3	1:J:551:SER:HA	1.48	0.94
1:H:696:ASN:HD21	1:3:393:PHE:H	1.08	0.94
1:H:551:SER:HA	1:2:464:SER:HB3	1.49	0.94
1:Y:551:SER:HA	1:Z:464:SER:HB3	1.50	0.94
1:L:393:PHE:H	1:U:696:ASN:HD21	161.52	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:224:ALA:H	1:J:408:ASN:HD21	1.02	0.94
1:C:501:PHE:HE2	1:X:449:THR:HG1	203.99	0.94
1:M:464:SER:HB3	1:S:551:SER:HA	208.05	0.94
1:Q:464:SER:HB3	1:U:551:SER:HA	116.99	0.94
1:D:408:ASN:HD21	1:Z:224:ALA:H	154.31	0.93
1:I:696:ASN:HD21	1:I:393:PHE:H	1.09	0.93
1:O:393:PHE:H	1:P:696:ASN:HD21	1.07	0.93
1:D:464:SER:HB3	1:W:551:SER:HA	179.60	0.93
1:Y:501:PHE:HE2	1:Z:449:THR:HG1	1.08	0.93
1:E:551:SER:HA	1:F:464:SER:HB3	1.50	0.93
1:C:408:ASN:HD21	1:D:224:ALA:H	1.09	0.93
1:E:393:PHE:H	1:F:696:ASN:HD21	1.12	0.93
1:M:408:ASN:HD21	1:N:224:ALA:H	1.17	0.93
1:E:696:ASN:HD21	1:G:393:PHE:H	103.37	0.93
1:F:696:ASN:HD21	1:4:393:PHE:H	130.39	0.93
1:B:408:ASN:HD21	1:C:224:ALA:H	1.08	0.92
1:L:551:SER:HA	1:T:464:SER:HB3	65.15	0.92
1:A:551:SER:HA	1:Q:464:SER:HB3	211.81	0.92
1:A:449:THR:HG23	1:J:500:ASN:HA	1.51	0.92
1:I:464:SER:HB3	1:V:551:SER:HA	134.40	0.92
1:J:224:ALA:H	1:N:408:ASN:HD21	179.25	0.92
1:W:408:ASN:HD21	1:X:224:ALA:H	1.18	0.92
1:A:408:ASN:HD21	1:B:224:ALA:H	1.17	0.92
1:L:408:ASN:HD21	1:M:224:ALA:H	1.13	0.92
1:F:464:SER:HB3	1:4:551:SER:HA	146.49	0.92
1:Q:696:ASN:HD21	1:U:393:PHE:H	133.75	0.92
1:P:393:PHE:H	1:V:696:ASN:HD21	163.63	0.92
1:4:408:ASN:HD21	1:5:224:ALA:H	1.17	0.92
1:Y:408:ASN:HD21	1:Z:224:ALA:H	74.51	0.91
1:E:408:ASN:HD21	1:F:224:ALA:H	74.29	0.91
1:B:393:PHE:H	1:O:696:ASN:HD21	163.57	0.91
1:H:501:PHE:HE2	1:2:449:THR:HG1	1.01	0.91
1:E:393:PHE:H	1:5:696:ASN:HD21	123.00	0.91
1:I:393:PHE:H	1:J:696:ASN:HD21	32.01	0.91
1:D:393:PHE:H	1:U:696:ASN:HD21	182.43	0.91
1:Z:408:ASN:HD21	1:O:224:ALA:H	74.34	0.91
1:Y:464:SER:HB3	1:O:551:SER:HA	1.53	0.91
1:T:408:ASN:HD21	1:U:224:ALA:H	151.21	0.91
1:A:501:PHE:HE2	1:W:449:THR:HG1	0.93	0.91
1:M:696:ASN:HD21	1:S:393:PHE:H	145.82	0.91
1:E:224:ALA:H	1:I:408:ASN:HD21	95.57	0.91
1:A:551:SER:HA	1:W:464:SER:HB3	1.52	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:393:PHE:H	1:Z:696:ASN:HD21	1.10	0.90
1:Y:500:ASN:HA	1:Z:449:THR:HG23	1.52	0.90
1:U:405:ARG:H	1:U:408:ASN:HD22	1.19	0.90
1:D:408:ASN:HD21	1:E:224:ALA:H	1.18	0.90
1:X:500:ASN:HA	1:1:449:THR:HG23	1.53	0.90
1:P:224:ALA:H	1:T:408:ASN:HD21	1.18	0.90
1:G:393:PHE:H	1:4:696:ASN:HD21	1.16	0.90
1:B:696:ASN:HD21	1:V:393:PHE:H	1.14	0.90
1:B:551:SER:HA	1:O:464:SER:HB3	208.76	0.90
1:V:562:ASP:OD1	1:V:564:GLU:OE2	2.18	0.90
1:X:551:SER:HA	1:1:464:SER:HB3	1.51	0.90
1:A:224:ALA:H	1:E:408:ASN:HD21	1.18	0.90
1:Y:696:ASN:HD21	1:7:393:PHE:H	110.73	0.90
1:1:408:ASN:HD21	1:2:224:ALA:H	1.18	0.89
1:K:562:ASP:OD1	1:K:564:GLU:OE2	2.01	0.89
1:R:464:SER:HB3	1:Y:551:SER:HA	136.28	0.89
1:S:393:PHE:H	1:T:696:ASN:HD21	32.01	0.89
1:I:696:ASN:HD21	1:V:393:PHE:H	123.61	0.89
1:U:408:ASN:HD21	1:V:224:ALA:H	1.23	0.89
1:Q:408:ASN:HD21	1:R:224:ALA:H	1.20	0.89
1:2:393:PHE:H	1:3:696:ASN:HD21	1.18	0.89
1:A:224:ALA:H	1:Z:408:ASN:HD21	155.88	0.89
1:C:696:ASN:HD21	1:O:393:PHE:H	165.98	0.89
1:B:405:ARG:H	1:B:408:ASN:HD22	1.20	0.89
1:B:449:THR:HG23	1:V:500:ASN:HA	1.55	0.89
1:M:302:ASN:HD21	1:M:701:TYR:H	1.21	0.89
1:D:405:ARG:H	1:D:408:ASN:HD22	1.27	0.89
1:V:405:ARG:H	1:V:408:ASN:HD22	1.18	0.89
1:R:562:ASP:OD1	1:R:564:GLU:OE2	1.99	0.88
1:I:449:THR:HG23	1:V:500:ASN:HA	145.88	0.88
1:G:408:ASN:HD21	1:H:224:ALA:H	1.27	0.88
1:K:405:ARG:H	1:K:408:ASN:HD22	1.27	0.88
1:I:464:SER:HB3	1:1:551:SER:HA	1.55	0.88
1:J:393:PHE:H	1:V:696:ASN:HD21	130.46	0.88
1:O:405:ARG:H	1:O:408:ASN:HD22	1.17	0.88
1:G:500:ASN:HA	1:4:449:THR:HG23	1.56	0.88
1:O:449:THR:HG1	1:X:501:PHE:HE2	202.52	0.88
1:N:405:ARG:H	1:N:408:ASN:HD22	1.20	0.88
1:F:449:THR:HG23	1:4:500:ASN:HA	137.75	0.88
1:B:696:ASN:HD21	1:P:393:PHE:H	184.38	0.88
1:H:500:ASN:HA	1:W:449:THR:HG23	146.11	0.87
1:S:500:ASN:HA	1:T:449:THR:HG23	96.53	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:696:ASN:HD21	1:N:393:PHE:H	200.61	0.87
1:2:500:ASN:HA	1:3:449:THR:HG23	1.53	0.87
1:I:393:PHE:H	1:X:696:ASN:ND2	1.71	0.87
1:A:449:THR:HG23	1:Z:500:ASN:HA	163.65	0.87
1:E:500:ASN:HA	1:F:449:THR:HG23	1.56	0.87
1:R:408:ASN:HD21	1:S:224:ALA:H	1.27	0.87
1:N:562:ASP:OD1	1:N:564:GLU:OE2	2.05	0.87
1:R:286:ASN:ND2	1:R:618:ILE:H	1.73	0.87
1:Z:405:ARG:H	1:Z:408:ASN:HD22	1.31	0.87
1:M:405:ARG:H	1:M:408:ASN:HD22	1.22	0.87
1:Y:449:THR:HG23	1:0:500:ASN:HA	1.56	0.87
1:A:500:ASN:HA	1:Q:449:THR:HG23	221.76	0.87
1:Q:551:SER:HA	1:Z:464:SER:HB3	146.52	0.87
1:K:408:ASN:HD21	1:L:224:ALA:H	1.22	0.87
1:5:562:ASP:OD1	1:5:564:GLU:OE2	1.92	0.87
1:O:500:ASN:HA	1:P:449:THR:HG23	1.57	0.86
1:R:393:PHE:H	1:7:696:ASN:HD21	1.19	0.86
1:K:500:ASN:HA	1:L:449:THR:HG23	96.46	0.86
1:A:500:ASN:HA	1:W:449:THR:HG23	1.57	0.86
1:J:405:ARG:H	1:J:408:ASN:HD22	1.20	0.86
1:R:405:ARG:H	1:R:408:ASN:HD22	1.26	0.86
1:E:449:THR:HG23	1:G:500:ASN:HA	66.04	0.86
1:X:431:LEU:HD21	1:X:478:TRP:HB2	1.68	0.86
1:6:408:ASN:HD21	1:7:224:ALA:H	1.21	0.86
1:C:405:ARG:H	1:C:408:ASN:HD22	1.36	0.86
1:K:696:ASN:HD21	1:T:393:PHE:H	1.18	0.86
1:I:449:THR:HG21	1:1:501:PHE:CD2	2.11	0.86
1:Z:500:ASN:HA	1:0:449:THR:HG23	1.58	0.86
1:W:405:ARG:H	1:W:408:ASN:HD22	1.28	0.86
1:H:500:ASN:HA	1:2:449:THR:HG23	1.57	0.86
1:J:696:ASN:ND2	1:W:393:PHE:H	1.73	0.86
1:V:408:ASN:HD21	1:W:224:ALA:H	1.23	0.86
1:U:431:LEU:HD21	1:U:478:TRP:HB2	1.58	0.86
1:Z:302:ASN:HD21	1:Z:701:TYR:H	1.26	0.86
1:U:224:ALA:H	1:Y:408:ASN:HD21	1.24	0.85
1:C:500:ASN:HA	1:X:449:THR:HG23	202.82	0.85
1:K:286:ASN:ND2	1:K:618:ILE:H	1.88	0.85
1:A:405:ARG:H	1:A:408:ASN:HD22	1.32	0.85
1:N:449:THR:HG23	1:R:500:ASN:HA	212.80	0.85
1:L:542:ILE:HD12	1:L:560:ILE:HG13	1.58	0.85
1:F:405:ARG:H	1:F:408:ASN:HD22	1.32	0.85
1:L:500:ASN:HA	1:U:449:THR:HG23	196.11	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:7:562:ASP:OD1	1:7:564:GLU:OE2	1.94	0.85
1:B:393:PHE:H	1:P:696:ASN:ND2	184.60	0.85
1:L:405:ARG:H	1:L:408:ASN:HD22	1.26	0.85
1:T:431:LEU:HD21	1:T:478:TRP:HB2	1.74	0.85
1:J:519:ASN:HB3	1:J:520:PRO:HD3	1.65	0.85
1:R:431:LEU:HD21	1:R:478:TRP:HB2	1.59	0.85
1:K:224:ALA:H	1:O:408:ASN:HD21	1.21	0.84
1:J:500:ASN:HA	1:V:449:THR:HG23	137.66	0.84
1:I:475:PRO:HA	1:I:519:ASN:HB3	1.59	0.84
1:I:286:ASN:ND2	1:I:618:ILE:H	1.73	0.84
1:D:449:THR:HG23	1:Q:500:ASN:HA	258.54	0.84
1:3:408:ASN:HD21	1:4:224:ALA:H	1.20	0.84
1:3:405:ARG:H	1:3:408:ASN:HD22	1.23	0.84
1:F:408:ASN:HD21	1:G:224:ALA:H	1.24	0.84
1:C:696:ASN:HD21	1:N:393:PHE:H	133.75	0.84
1:D:286:ASN:ND2	1:D:618:ILE:H	1.75	0.84
1:H:519:ASN:HB3	1:H:520:PRO:HD3	1.71	0.84
1:P:286:ASN:ND2	1:P:618:ILE:H	1.75	0.84
1:Y:508:LYS:HB3	1:Y:517:ILE:HA	1.60	0.84
1:V:542:ILE:HD12	1:V:560:ILE:HG13	1.70	0.84
1:0:405:ARG:H	1:0:408:ASN:HD22	1.23	0.84
1:K:449:THR:HG1	1:T:501:PHE:HE2	1.26	0.83
1:G:431:LEU:HD21	1:G:478:TRP:HB2	1.70	0.83
1:A:542:ILE:HD12	1:A:560:ILE:HG13	1.84	0.83
1:E:322:LYS:HE2	1:E:335:ASN:HD21	1.61	0.83
1:M:500:ASN:HA	1:6:449:THR:HG23	184.31	0.83
1:A:297:TRP:NE1	1:A:301:ILE:HD11	1.94	0.83
1:A:393:PHE:H	1:W:696:ASN:ND2	1.76	0.83
1:R:438:LEU:HD11	1:Y:277:SER:HB2	126.30	0.83
1:K:245:ARG:NH1	1:K:364:PRO:O	2.12	0.83
1:L:245:ARG:NH1	1:L:364:PRO:O	2.21	0.83
1:M:562:ASP:OD1	1:M:564:GLU:OE2	2.07	0.83
1:E:361:GLY:HA3	1:E:374:PRO:HG3	1.60	0.83
1:E:509:TYR:HD1	1:E:518:ILE:HD13	1.42	0.83
1:0:509:TYR:HD1	1:0:518:ILE:HD13	1.43	0.83
1:H:449:THR:HG23	1:3:500:ASN:HA	1.59	0.83
1:5:408:ASN:HD21	1:6:224:ALA:H	1.24	0.83
1:F:519:ASN:HB3	1:F:520:PRO:HD3	1.61	0.83
1:Q:405:ARG:H	1:Q:408:ASN:HD22	1.26	0.83
1:Y:519:ASN:HB3	1:Y:520:PRO:HD3	1.61	0.83
1:S:405:ARG:H	1:S:408:ASN:HD22	1.25	0.82
1:C:286:ASN:HD21	1:C:619:TRP:H	1.27	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:431:LEU:HD21	1:Z:478:TRP:HB2	1.70	0.82
1:I:408:ASN:HD21	1:J:224:ALA:H	1.25	0.82
1:5:405:ARG:H	1:5:408:ASN:HD22	1.25	0.82
1:O:286:ASN:ND2	1:O:618:ILE:H	1.83	0.82
1:C:393:PHE:H	1:X:696:ASN:ND2	144.09	0.82
1:O:224:ALA:H	1:S:408:ASN:HD21	95.32	0.82
1:H:405:ARG:H	1:H:408:ASN:HD22	1.28	0.82
1:C:245:ARG:NH1	1:C:364:PRO:O	2.13	0.82
1:T:405:ARG:H	1:T:408:ASN:HD22	1.27	0.82
1:I:501:PHE:HE2	1:J:449:THR:HG1	102.37	0.82
1:Z:501:PHE:HE2	1:O:449:THR:HG1	1.27	0.82
1:P:500:ASN:HA	1:V:449:THR:HG23	221.26	0.82
1:N:449:THR:HG23	1:5:500:ASN:HA	256.98	0.82
1:M:519:ASN:HB3	1:M:520:PRO:HD3	1.68	0.82
1:S:562:ASP:OD1	1:S:564:GLU:OE2	2.02	0.82
1:N:286:ASN:ND2	1:N:618:ILE:H	1.82	0.82
1:Q:500:ASN:HA	1:Z:449:THR:HG23	137.78	0.82
1:4:405:ARG:H	1:4:408:ASN:HD22	1.28	0.82
1:G:542:ILE:HD12	1:G:560:ILE:HG13	1.59	0.82
1:F:435:MET:HG2	1:F:474:GLN:OE1	1.79	0.82
1:P:302:ASN:HD21	1:P:701:TYR:H	1.27	0.82
1:C:449:THR:HG23	1:O:500:ASN:HA	184.41	0.82
1:I:519:ASN:HB3	1:X:475:PRO:HA	1.61	0.82
1:X:553:THR:HG23	1:X:557:ASN:HB2	1.61	0.82
1:6:405:ARG:H	1:6:408:ASN:HD22	1.27	0.82
1:F:322:LYS:HE2	1:F:335:ASN:ND2	1.95	0.82
1:Q:449:THR:HG23	1:U:500:ASN:HA	128.46	0.82
1:F:393:PHE:H	1:G:696:ASN:ND2	31.63	0.82
1:O:449:THR:HG23	1:X:500:ASN:HA	201.58	0.82
1:I:405:ARG:H	1:I:408:ASN:HD22	1.27	0.82
1:J:286:ASN:ND2	1:J:618:ILE:H	1.78	0.82
1:B:562:ASP:OD1	1:B:564:GLU:OE2	2.10	0.81
1:O:519:ASN:HB3	1:O:520:PRO:HD3	1.66	0.81
1:F:562:ASP:OD1	1:F:564:GLU:OE2	2.10	0.81
1:B:464:SER:HB3	1:V:551:SER:HA	1.62	0.81
1:Q:393:PHE:H	1:Z:696:ASN:ND2	131.09	0.81
1:J:449:THR:HG23	1:W:500:ASN:HA	1.62	0.81
1:I:500:ASN:HA	1:X:449:THR:HG23	1.62	0.81
1:I:508:LYS:HB3	1:I:517:ILE:HA	1.62	0.81
1:V:286:ASN:ND2	1:V:618:ILE:H	1.78	0.81
1:L:562:ASP:OD1	1:L:564:GLU:OE2	2.06	0.81
1:K:509:TYR:HD1	1:K:518:ILE:HD13	1.44	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:393:PHE:H	1:W:696:ASN:ND2	124.31	0.81
1:B:500:ASN:HA	1:O:449:THR:HG23	221.34	0.81
1:R:500:ASN:HA	1:7:449:THR:HG23	1.62	0.81
1:F:286:ASN:ND2	1:F:618:ILE:H	1.86	0.81
1:P:405:ARG:H	1:P:408:ASN:HD22	1.28	0.81
1:Q:431:LEU:HD21	1:Q:478:TRP:HB2	1.63	0.81
1:O:408:ASN:HD21	1:P:224:ALA:H	74.37	0.81
1:J:286:ASN:HD21	1:J:619:TRP:H	1.26	0.81
1:V:297:TRP:NE1	1:V:301:ILE:HD11	1.96	0.81
1:3:224:ALA:H	1:7:408:ASN:HD21	1.26	0.81
1:D:393:PHE:H	1:H:696:ASN:ND2	145.50	0.81
1:X:519:ASN:HB3	1:X:520:PRO:HD3	1.63	0.81
1:3:509:TYR:HD1	1:3:518:ILE:HD13	1.45	0.81
1:S:696:ASN:ND2	1:6:393:PHE:H	1.79	0.81
1:P:508:LYS:HB3	1:P:517:ILE:HA	1.63	0.81
1:X:286:ASN:ND2	1:X:618:ILE:H	1.89	0.81
1:D:245:ARG:NH1	1:D:364:PRO:O	2.13	0.81
1:E:562:ASP:OD1	1:E:564:GLU:OE2	2.01	0.81
1:D:501:PHE:CD2	1:U:449:THR:HG21	211.17	0.80
1:E:245:ARG:NH1	1:E:364:PRO:O	2.15	0.80
1:1:431:LEU:HD21	1:1:478:TRP:HB2	1.60	0.80
1:B:322:LYS:HE2	1:B:335:ASN:ND2	2.00	0.80
1:C:449:THR:HG23	1:N:500:ASN:HA	128.29	0.80
1:F:224:ALA:H	1:J:408:ASN:ND2	1.79	0.80
1:4:509:TYR:HD1	1:4:518:ILE:HD13	1.47	0.80
1:X:509:TYR:HD1	1:X:518:ILE:HD13	1.46	0.80
1:Y:562:ASP:OD1	1:Y:564:GLU:OE2	2.14	0.80
1:H:245:ARG:NH1	1:H:364:PRO:O	2.24	0.80
1:A:501:PHE:CD2	1:W:449:THR:HG21	2.16	0.80
1:M:245:ARG:NH1	1:M:364:PRO:O	2.24	0.80
1:L:286:ASN:ND2	1:L:618:ILE:H	1.79	0.80
1:H:501:PHE:CD2	1:2:449:THR:HG21	2.16	0.80
1:L:500:ASN:HA	1:T:449:THR:HG23	65.95	0.80
1:E:449:THR:HG21	1:N:501:PHE:CD2	248.10	0.80
1:K:393:PHE:H	1:L:696:ASN:ND2	31.68	0.80
1:L:519:ASN:HB3	1:L:520:PRO:HD3	1.64	0.80
1:B:286:ASN:ND2	1:B:618:ILE:H	1.77	0.80
1:0:431:LEU:HD21	1:0:478:TRP:HB2	1.62	0.80
1:L:501:PHE:CD2	1:T:449:THR:HG21	64.08	0.80
1:Y:696:ASN:ND2	1:0:393:PHE:H	1.79	0.80
1:P:509:TYR:HD1	1:P:518:ILE:HD13	1.45	0.80
1:R:449:THR:HG23	1:Y:500:ASN:HA	146.76	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:475:PRO:HA	1:W:519:ASN:HB3	1.63	0.80
1:C:562:ASP:OD1	1:C:564:GLU:OE2	2.06	0.80
1:V:431:LEU:HD21	1:V:478:TRP:HB2	1.63	0.80
1:W:286:ASN:HD21	1:W:619:TRP:H	1.29	0.80
1:W:431:LEU:HD21	1:W:478:TRP:HB2	1.64	0.80
1:Q:696:ASN:ND2	1:U:393:PHE:H	133.87	0.80
1:I:696:ASN:ND2	1:I:393:PHE:H	1.79	0.80
1:I:519:ASN:HB3	1:I:520:PRO:HD3	1.64	0.80
1:U:519:ASN:HB3	1:U:520:PRO:HD3	1.64	0.80
1:A:508:LYS:HB3	1:A:517:ILE:HA	1.62	0.80
1:O:509:TYR:HD1	1:O:518:ILE:HD13	1.51	0.80
1:N:542:ILE:HD12	1:N:560:ILE:HG13	1.64	0.80
1:X:408:ASN:HD21	1:Y:224:ALA:H	1.28	0.80
1:I:501:PHE:HE2	1:X:449:THR:HG1	1.27	0.80
1:D:519:ASN:HB3	1:D:520:PRO:HD3	1.62	0.80
1:E:322:LYS:HE2	1:E:335:ASN:ND2	2.10	0.80
1:P:245:ARG:NH1	1:P:364:PRO:O	2.14	0.80
1:B:322:LYS:HE2	1:B:335:ASN:HD21	1.50	0.80
1:U:286:ASN:ND2	1:U:618:ILE:H	1.80	0.80
1:K:519:ASN:HB3	1:K:520:PRO:HD3	1.63	0.80
1:P:542:ILE:HD12	1:P:560:ILE:HG13	1.64	0.80
1:N:696:ASN:HD21	1:R:393:PHE:H	182.27	0.80
1:D:449:THR:HG23	1:W:500:ASN:HA	181.11	0.80
1:Q:501:PHE:CD2	1:Z:449:THR:HG21	132.96	0.80
1:Y:245:ARG:NH1	1:Y:364:PRO:O	2.14	0.80
1:O:302:ASN:HD21	1:O:701:TYR:H	1.35	0.80
1:G:297:TRP:NE1	1:G:301:ILE:HD11	1.97	0.80
1:X:501:PHE:CD2	1:I:449:THR:HG21	2.17	0.80
1:H:519:ASN:HB3	1:W:475:PRO:HA	129.18	0.80
1:I:519:ASN:HB3	1:I:520:PRO:HD3	1.64	0.80
1:F:322:LYS:HE2	1:F:335:ASN:HD21	1.46	0.80
1:J:302:ASN:HD21	1:J:701:TYR:H	1.48	0.80
1:I:297:TRP:NE1	1:I:301:ILE:HD11	1.96	0.80
1:Q:449:THR:HG21	1:U:501:PHE:CD2	126.19	0.79
1:C:449:THR:HG21	1:N:501:PHE:CD2	126.01	0.79
1:O:408:ASN:HD21	1:I:224:ALA:H	1.30	0.79
1:Y:322:LYS:HE2	1:Y:335:ASN:HD21	1.47	0.79
1:B:302:ASN:HD21	1:B:701:TYR:H	1.42	0.79
1:H:322:LYS:HE2	1:H:335:ASN:HD21	1.47	0.79
1:D:696:ASN:ND2	1:W:393:PHE:H	155.46	0.79
1:B:449:THR:HG23	1:P:500:ASN:HA	221.73	0.79
1:H:322:LYS:HE2	1:H:335:ASN:ND2	1.98	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:431:LEU:HD21	1:O:478:TRP:HB2	1.64	0.79
1:Z:562:ASP:OD1	1:Z:564:GLU:OE2	2.12	0.79
1:M:449:THR:HG21	1:S:501:PHE:CD2	220.97	0.79
1:O:245:ARG:NH1	1:O:364:PRO:O	2.15	0.79
1:W:562:ASP:OD1	1:W:564:GLU:OE2	2.07	0.79
1:V:519:ASN:HB3	1:V:520:PRO:HD3	1.65	0.79
1:W:519:ASN:HB3	1:W:520:PRO:HD3	1.63	0.79
1:C:553:THR:HG23	1:C:557:ASN:HB2	1.63	0.79
1:O:449:THR:HG21	1:X:501:PHE:CD2	201.94	0.79
1:6:519:ASN:HB3	1:6:520:PRO:HD3	1.63	0.79
1:K:302:ASN:HD21	1:K:701:TYR:H	1.30	0.79
1:E:501:PHE:HE2	1:F:449:THR:HG1	1.30	0.79
1:Y:449:THR:HG21	1:O:501:PHE:CD2	2.18	0.79
1:O:562:ASP:OD1	1:O:564:GLU:OE2	2.01	0.79
1:G:286:ASN:HD21	1:G:619:TRP:H	1.31	0.79
1:Y:501:PHE:CD2	1:Z:449:THR:HG21	2.17	0.79
1:Q:509:TYR:HD1	1:Q:518:ILE:HD13	1.52	0.79
1:6:501:PHE:HD2	1:6:501:PHE:H	1.30	0.79
1:M:562:ASP:OD2	1:M:564:GLU:HG3	1.94	0.79
1:X:297:TRP:NE1	1:X:301:ILE:HD11	1.98	0.79
1:4:562:ASP:OD1	1:4:564:GLU:OE2	2.01	0.79
1:F:508:LYS:HB3	1:F:517:ILE:HA	1.64	0.79
1:M:286:ASN:HD21	1:M:619:TRP:H	1.34	0.79
1:A:286:ASN:ND2	1:A:618:ILE:H	1.82	0.79
1:E:431:LEU:HD21	1:E:478:TRP:HB2	1.65	0.79
1:Y:405:ARG:H	1:Y:408:ASN:HD22	1.32	0.79
1:O:508:LYS:HB3	1:O:517:ILE:HA	1.64	0.79
1:U:509:TYR:HD1	1:U:518:ILE:HD13	1.47	0.79
1:H:286:ASN:ND2	1:H:618:ILE:H	1.81	0.79
1:O:542:ILE:HD12	1:O:560:ILE:HG13	1.65	0.79
1:S:302:ASN:HD21	1:S:701:TYR:H	1.31	0.79
1:M:696:ASN:ND2	1:S:393:PHE:H	145.36	0.79
1:F:500:ASN:HA	1:G:449:THR:HG23	96.53	0.79
1:E:519:ASN:HB3	1:E:520:PRO:HD3	1.65	0.79
1:Z:286:ASN:ND2	1:Z:618:ILE:H	1.81	0.79
1:E:464:SER:CB	1:G:551:SER:HA	65.13	0.79
1:C:500:ASN:HA	1:R:449:THR:HG23	258.73	0.79
1:J:542:ILE:HD12	1:J:560:ILE:HG13	1.74	0.79
1:I:431:LEU:HD21	1:I:478:TRP:HB2	1.64	0.79
1:E:405:ARG:H	1:E:408:ASN:HD22	1.31	0.78
1:Y:449:THR:HG23	1:7:500:ASN:HA	150.46	0.78
1:Z:519:ASN:HB3	1:Z:520:PRO:HD3	1.64	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:519:ASN:HB3	1:T:520:PRO:HD3	1.66	0.78
1:7:405:ARG:H	1:7:408:ASN:HD22	1.28	0.78
1:W:542:ILE:HD12	1:W:560:ILE:HG13	1.65	0.78
1:P:431:LEU:HD21	1:P:478:TRP:HB2	1.74	0.78
1:D:393:PHE:H	1:U:696:ASN:ND2	182.74	0.78
1:Q:519:ASN:HB3	1:Q:520:PRO:HD3	1.65	0.78
1:F:517:ILE:HG22	1:G:473:VAL:HA	75.04	0.78
1:L:297:TRP:NE1	1:L:301:ILE:HD11	2.01	0.78
1:K:449:THR:HG23	1:U:500:ASN:HA	225.83	0.78
1:N:431:LEU:HD21	1:N:478:TRP:HB2	1.66	0.78
1:O:696:ASN:ND2	1:X:393:PHE:H	145.62	0.78
1:B:286:ASN:HD21	1:B:619:TRP:H	1.36	0.78
1:D:431:LEU:HD21	1:D:478:TRP:HB2	1.70	0.78
1:K:431:LEU:HD21	1:K:478:TRP:HB2	1.77	0.78
1:M:449:THR:HG23	1:S:500:ASN:HA	222.07	0.78
1:H:393:PHE:H	1:2:696:ASN:ND2	1.81	0.78
1:B:449:THR:HG21	1:V:501:PHE:CD2	2.19	0.78
1:F:431:LEU:HD21	1:F:478:TRP:HB2	1.63	0.78
1:M:449:THR:HG23	1:T:500:ASN:HA	180.76	0.78
1:D:509:TYR:HD1	1:D:518:ILE:HD13	1.59	0.78
1:Q:322:LYS:HE2	1:Q:335:ASN:HD21	1.48	0.78
1:A:696:ASN:ND2	1:J:393:PHE:H	1.82	0.78
1:L:286:ASN:HD21	1:L:619:TRP:H	1.39	0.78
1:V:246:THR:HG23	1:V:678:GLN:HE21	1.76	0.78
1:K:322:LYS:HE2	1:K:335:ASN:HD21	1.54	0.78
1:W:302:ASN:HD21	1:W:701:TYR:H	1.32	0.78
1:3:553:THR:HG23	1:3:557:ASN:HB2	1.66	0.78
1:B:519:ASN:HB3	1:B:520:PRO:HD3	1.72	0.78
1:S:286:ASN:ND2	1:S:618:ILE:H	1.87	0.78
1:7:519:ASN:HB3	1:7:520:PRO:HD3	1.66	0.78
1:X:405:ARG:H	1:X:408:ASN:HD22	1.29	0.78
1:G:405:ARG:H	1:G:408:ASN:HD22	1.32	0.78
1:E:502:THR:HG23	1:F:449:THR:HG22	1.65	0.78
1:S:519:ASN:HB3	1:S:520:PRO:HD3	1.71	0.78
1:I:245:ARG:NH1	1:I:364:PRO:O	2.17	0.78
1:3:431:LEU:HD21	1:3:478:TRP:HB2	1.66	0.78
1:B:297:TRP:NE1	1:B:301:ILE:HD11	1.98	0.78
1:M:393:PHE:H	1:S:696:ASN:ND2	182.71	0.78
1:3:519:ASN:HB3	1:3:520:PRO:HD3	1.66	0.78
1:S:297:TRP:NE1	1:S:301:ILE:HD11	1.99	0.78
1:W:322:LYS:HE2	1:W:335:ASN:ND2	2.04	0.78
1:R:302:ASN:HD21	1:R:701:TYR:H	1.32	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:449:THR:HG21	1:3:501:PHE:CD2	2.18	0.77
1:H:509:TYR:HD1	1:H:518:ILE:HD13	1.50	0.77
1:G:509:TYR:HD1	1:G:518:ILE:HD13	1.50	0.77
1:E:286:ASN:ND2	1:E:618:ILE:H	1.83	0.77
1:N:245:ARG:NH1	1:N:364:PRO:O	2.24	0.77
1:M:449:THR:HG1	1:S:501:PHE:HE2	224.00	0.77
1:N:519:ASN:HB3	1:N:520:PRO:HD3	1.66	0.77
1:B:245:ARG:NH1	1:B:364:PRO:O	2.18	0.77
1:6:542:ILE:HD12	1:6:560:ILE:HG13	1.66	0.77
1:H:551:SER:CA	1:W:464:SER:HB3	134.48	0.77
1:E:449:THR:HG23	1:N:500:ASN:HA	250.71	0.77
1:1:509:TYR:HD1	1:1:518:ILE:HD13	1.49	0.77
1:Q:508:LYS:HB3	1:Q:517:ILE:HA	1.64	0.77
1:7:286:ASN:ND2	1:7:618:ILE:H	1.82	0.77
1:S:508:LYS:HB3	1:S:517:ILE:HA	1.65	0.77
1:B:508:LYS:HB3	1:B:517:ILE:HA	1.73	0.77
1:O:508:LYS:HB3	1:O:517:ILE:HA	1.68	0.77
1:M:286:ASN:ND2	1:M:618:ILE:H	1.82	0.77
1:U:245:ARG:NH1	1:U:364:PRO:O	2.27	0.77
1:Y:393:PHE:H	1:Z:696:ASN:ND2	1.82	0.77
1:N:408:ASN:HD21	1:O:224:ALA:H	1.30	0.77
1:F:501:PHE:CD2	1:G:449:THR:HG21	97.34	0.77
1:Y:517:ILE:HG22	1:Z:473:VAL:HA	1.67	0.77
1:S:509:TYR:HD1	1:S:518:ILE:HD13	1.52	0.77
1:N:508:LYS:HB3	1:N:517:ILE:HA	1.66	0.77
1:G:286:ASN:ND2	1:G:618:ILE:H	1.82	0.77
1:B:542:ILE:HD12	1:B:560:ILE:HG13	1.70	0.77
1:3:286:ASN:ND2	1:3:618:ILE:H	1.83	0.77
1:X:245:ARG:NH1	1:X:364:PRO:O	2.17	0.77
1:S:449:THR:HG23	1:6:500:ASN:HA	1.64	0.77
1:W:286:ASN:ND2	1:W:618:ILE:H	1.82	0.77
1:C:322:LYS:HE2	1:C:335:ASN:ND2	2.00	0.77
1:J:431:LEU:HD21	1:J:478:TRP:HB2	1.66	0.77
1:5:245:ARG:NH1	1:5:364:PRO:O	2.17	0.77
1:Z:393:PHE:H	1:O:696:ASN:ND2	1.82	0.77
1:I:509:TYR:HD1	1:I:518:ILE:HD13	1.50	0.77
1:S:245:ARG:NH1	1:S:364:PRO:O	2.17	0.77
1:I:542:ILE:HD12	1:I:560:ILE:HG13	1.65	0.77
1:E:464:SER:HB3	1:G:551:SER:CA	65.78	0.77
1:H:517:ILE:HG22	1:2:473:VAL:HA	1.66	0.77
1:T:508:LYS:HB3	1:T:517:ILE:HA	1.67	0.77
1:G:553:THR:HG23	1:G:557:ASN:HB2	1.66	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:0:286:ASN:HD21	1:0:619:TRP:H	1.32	0.77
1:2:286:ASN:HD21	1:2:619:TRP:H	1.31	0.77
1:0:246:THR:HG23	1:0:678:GLN:HE21	1.50	0.77
1:6:302:ASN:HD21	1:6:701:TYR:H	1.30	0.77
1:E:277:SER:HB2	1:F:438:LEU:HD11	1.67	0.77
1:R:245:ARG:NH1	1:R:364:PRO:O	2.26	0.77
1:O:393:PHE:H	1:P:696:ASN:ND2	1.81	0.77
1:A:431:LEU:HD21	1:A:478:TRP:HB2	1.67	0.77
1:Q:289:HIS:CE1	1:Q:365:PRO:HG3	2.20	0.77
1:M:393:PHE:H	1:6:696:ASN:ND2	165.86	0.77
1:2:551:SER:HA	1:3:464:SER:CB	2.15	0.77
1:G:502:THR:HG23	1:4:449:THR:HG22	1.67	0.77
1:V:509:TYR:HD1	1:V:518:ILE:HD13	1.50	0.77
1:I:286:ASN:HD21	1:I:619:TRP:H	1.33	0.77
1:G:519:ASN:HB3	1:G:520:PRO:HD3	1.68	0.77
1:A:509:TYR:HD1	1:A:518:ILE:HD13	1.50	0.77
1:4:431:LEU:HD21	1:4:478:TRP:HB2	1.67	0.77
1:C:431:LEU:HD21	1:C:478:TRP:HB2	1.67	0.77
1:A:393:PHE:H	1:Q:696:ASN:ND2	184.66	0.76
1:M:696:ASN:ND2	1:T:393:PHE:H	128.44	0.76
1:X:508:LYS:HB3	1:X:517:ILE:HA	1.67	0.76
1:H:431:LEU:HD21	1:H:478:TRP:HB2	1.69	0.76
1:L:302:ASN:HD21	1:L:701:TYR:H	1.39	0.76
1:3:302:ASN:HD21	1:3:701:TYR:H	1.31	0.76
1:Z:501:PHE:CD2	1:0:449:THR:HG21	2.19	0.76
1:2:297:TRP:NE1	1:2:301:ILE:HD11	2.01	0.76
1:U:542:ILE:HD12	1:U:560:ILE:HG13	1.67	0.76
1:B:553:THR:HG23	1:B:557:ASN:HB2	1.71	0.76
1:H:501:PHE:H	1:H:501:PHE:HD2	1.33	0.76
1:D:449:THR:HG21	1:Q:501:PHE:CD2	256.95	0.76
1:K:562:ASP:OD2	1:K:564:GLU:HG3	1.94	0.76
1:M:500:ASN:HA	1:S:449:THR:HG23	212.71	0.76
1:7:508:LYS:HB3	1:7:517:ILE:HA	1.67	0.76
1:T:509:TYR:HD1	1:T:518:ILE:HD13	1.61	0.76
1:Y:286:ASN:ND2	1:Y:618:ILE:H	1.84	0.76
1:Z:297:TRP:NE1	1:Z:301:ILE:HD11	2.04	0.76
1:E:508:LYS:HB3	1:E:517:ILE:HA	1.68	0.76
1:E:286:ASN:HD21	1:E:619:TRP:H	1.36	0.76
1:U:322:LYS:HE2	1:U:335:ASN:ND2	1.99	0.76
1:J:553:THR:HG23	1:J:557:ASN:HB2	1.67	0.76
1:4:286:ASN:ND2	1:4:618:ILE:H	1.83	0.76
1:7:246:THR:HG23	1:7:678:GLN:HE21	1.50	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:322:LYS:HE2	1:J:335:ASN:HD21	1.51	0.76
1:D:553:THR:HG23	1:D:557:ASN:HB2	1.72	0.76
1:L:393:PHE:H	1:U:696:ASN:ND2	161.99	0.76
1:A:517:ILE:HG22	1:W:473:VAL:HA	1.67	0.76
1:C:473:VAL:HA	1:N:517:ILE:HG22	123.57	0.76
1:Z:286:ASN:HD21	1:Z:619:TRP:H	1.33	0.76
1:K:322:LYS:HE2	1:K:335:ASN:ND2	2.02	0.76
1:H:297:TRP:NE1	1:H:301:ILE:HD11	2.01	0.76
1:W:553:THR:HG23	1:W:557:ASN:HB2	1.75	0.76
1:B:551:SER:HA	1:P:464:SER:CB	211.37	0.76
1:R:696:ASN:ND2	1:Y:393:PHE:H	122.61	0.76
1:B:500:ASN:HA	1:P:449:THR:HG23	221.73	0.76
1:I:487:GLN:HB3	1:I:537:MET:HE2	1.66	0.76
1:C:509:TYR:HD1	1:C:518:ILE:HD13	1.48	0.76
1:F:245:ARG:NH1	1:F:364:PRO:O	2.25	0.76
1:A:517:ILE:HG22	1:Q:473:VAL:HA	201.94	0.76
1:Q:322:LYS:HE2	1:Q:335:ASN:ND2	2.01	0.76
1:6:286:ASN:ND2	1:6:618:ILE:H	1.81	0.76
1:R:322:LYS:HE2	1:R:335:ASN:HD21	1.50	0.76
1:J:562:ASP:OD1	1:J:564:GLU:OE2	2.22	0.76
1:I:501:PHE:CD2	1:X:449:THR:HG21	2.20	0.76
1:E:393:PHE:H	1:F:696:ASN:ND2	1.83	0.76
1:E:500:ASN:HA	1:5:449:THR:HG23	146.72	0.76
1:C:519:ASN:HB3	1:C:520:PRO:HD3	1.68	0.76
1:X:286:ASN:HD21	1:X:619:TRP:H	1.34	0.76
1:0:519:ASN:HB3	1:0:520:PRO:HD3	1.67	0.76
1:I:611:ASP:OD1	1:I:730:ARG:HG3	1.86	0.76
1:D:500:ASN:HA	1:H:449:THR:HG23	222.15	0.76
1:L:501:PHE:HE2	1:T:449:THR:HG1	59.93	0.76
1:I:473:VAL:HA	1:1:517:ILE:HG22	1.67	0.76
1:D:517:ILE:HG22	1:U:473:VAL:HA	196.85	0.76
1:V:322:LYS:HE2	1:V:335:ASN:HD21	1.49	0.76
1:M:322:LYS:HE2	1:M:335:ASN:HD21	1.50	0.76
1:2:542:ILE:HD12	1:2:560:ILE:HG13	1.66	0.76
1:Y:611:ASP:OD1	1:Y:730:ARG:HG3	1.85	0.76
1:H:408:ASN:ND2	1:I:224:ALA:H	1.91	0.76
1:C:508:LYS:HB3	1:C:517:ILE:HA	1.68	0.76
1:2:519:ASN:HB3	1:2:520:PRO:HD3	1.67	0.76
1:Q:286:ASN:ND2	1:Q:618:ILE:H	1.84	0.76
1:4:542:ILE:HD12	1:4:560:ILE:HG13	1.66	0.76
1:T:245:ARG:NH1	1:T:364:PRO:O	2.19	0.75
1:F:519:ASN:HB3	1:G:475:PRO:HA	78.05	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:611:ASP:OD1	1:A:730:ARG:HG3	1.86	0.75
1:R:297:TRP:NE1	1:R:301:ILE:HD11	2.08	0.75
1:K:519:ASN:HB3	1:L:475:PRO:HA	78.03	0.75
1:U:322:LYS:HE2	1:U:335:ASN:HD21	1.49	0.75
1:G:245:ARG:NH1	1:G:364:PRO:O	2.23	0.75
1:S:431:LEU:HD21	1:S:478:TRP:HB2	1.69	0.75
1:6:562:ASP:OD1	1:6:564:GLU:OE2	2.03	0.75
1:D:542:ILE:HD12	1:D:560:ILE:HG13	1.66	0.75
1:M:464:SER:HB3	1:T:551:SER:CA	178.65	0.75
1:K:449:THR:HG21	1:T:501:PHE:CD2	2.21	0.75
1:H:475:PRO:HA	1:3:519:ASN:HB3	1.68	0.75
1:Y:519:ASN:HB3	1:Z:475:PRO:HA	1.69	0.75
1:D:322:LYS:HE2	1:D:335:ASN:HD21	1.52	0.75
1:J:361:GLY:HA3	1:J:374:PRO:HG3	1.68	0.75
1:C:393:PHE:H	1:R:696:ASN:ND2	210.36	0.75
1:W:322:LYS:HE2	1:W:335:ASN:HD21	1.58	0.75
1:C:322:LYS:HE2	1:C:335:ASN:HD21	1.52	0.75
1:R:519:ASN:HB3	1:R:520:PRO:HD3	1.68	0.75
1:Y:431:LEU:HD21	1:Y:478:TRP:HB2	1.66	0.75
1:T:501:PHE:H	1:T:501:PHE:HD2	1.34	0.75
1:B:501:PHE:CD2	1:P:449:THR:HG21	218.85	0.75
1:F:696:ASN:ND2	1:4:393:PHE:H	130.92	0.75
1:7:322:LYS:HE2	1:7:335:ASN:HD21	1.50	0.75
1:1:553:THR:HG23	1:1:557:ASN:HB2	1.67	0.75
1:L:322:LYS:HE2	1:L:335:ASN:ND2	2.04	0.75
1:V:245:ARG:NH1	1:V:364:PRO:O	2.26	0.75
1:5:286:ASN:HD21	1:5:619:TRP:H	1.34	0.75
1:A:519:ASN:HB3	1:W:475:PRO:HA	1.67	0.75
1:Y:473:VAL:HA	1:7:517:ILE:HG22	133.56	0.75
1:G:508:LYS:HB3	1:G:517:ILE:HA	1.68	0.75
1:Y:542:ILE:HD12	1:Y:560:ILE:HG13	1.78	0.75
1:2:431:LEU:HD21	1:2:478:TRP:HB2	1.67	0.75
1:E:262:SER:O	1:E:265:THR:HG22	1.86	0.75
1:M:509:TYR:HD1	1:M:518:ILE:HD13	1.50	0.75
1:1:501:PHE:HD2	1:1:501:PHE:H	1.34	0.75
1:I:449:THR:HG23	1:1:500:ASN:HA	1.67	0.75
1:M:322:LYS:HE2	1:M:335:ASN:ND2	2.00	0.75
1:M:431:LEU:HD21	1:M:478:TRP:HB2	1.66	0.75
1:2:509:TYR:HD1	1:2:518:ILE:HD13	1.50	0.75
1:P:519:ASN:HB3	1:P:520:PRO:HD3	1.67	0.75
1:F:286:ASN:HD21	1:F:619:TRP:H	1.35	0.75
1:5:519:ASN:HB3	1:5:520:PRO:HD3	1.69	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:245:ARG:NH1	1:W:364:PRO:O	2.20	0.75
1:E:542:ILE:HD12	1:E:560:ILE:HG13	1.70	0.75
1:I:696:ASN:H	1:I:696:ASN:HD22	1.48	0.75
1:7:509:TYR:HD1	1:7:518:ILE:HD13	1.50	0.75
1:L:509:TYR:HD1	1:L:518:ILE:HD13	1.52	0.75
1:R:322:LYS:HE2	1:R:335:ASN:ND2	2.03	0.75
1:O:322:LYS:HE2	1:O:335:ASN:ND2	2.17	0.75
1:Q:562:ASP:OD1	1:Q:564:GLU:OE2	2.03	0.75
1:Y:473:VAL:HA	1:O:517:ILE:HG22	1.69	0.74
1:F:475:PRO:HA	1:4:519:ASN:HB3	118.56	0.74
1:E:302:ASN:HD21	1:E:701:TYR:H	1.52	0.74
1:B:431:LEU:HD21	1:B:478:TRP:HB2	1.69	0.74
1:V:553:THR:HG23	1:V:557:ASN:HB2	1.72	0.74
1:Q:553:THR:HG23	1:Q:557:ASN:HB2	1.71	0.74
1:K:297:TRP:NE1	1:K:301:ILE:HD11	2.03	0.74
1:T:286:ASN:ND2	1:T:618:ILE:H	1.85	0.74
1:L:501:PHE:CD2	1:U:449:THR:HG21	197.03	0.74
1:A:475:PRO:HA	1:Z:519:ASN:HB3	144.65	0.74
1:V:322:LYS:HE2	1:V:335:ASN:ND2	2.01	0.74
1:I:553:THR:HG23	1:I:557:ASN:HB2	1.72	0.74
1:A:322:LYS:HE2	1:A:335:ASN:HD21	1.52	0.74
1:S:542:ILE:HD12	1:S:560:ILE:HG13	1.82	0.74
1:K:551:SER:HA	1:L:464:SER:CB	91.03	0.74
1:2:405:ARG:H	1:2:408:ASN:HD22	1.31	0.74
1:A:475:PRO:HA	1:J:519:ASN:HB3	1.67	0.74
1:D:475:PRO:HA	1:W:519:ASN:HB3	155.53	0.74
1:7:486:GLN:HE22	1:7:539:GLY:N	1.85	0.74
1:E:519:ASN:HB3	1:F:475:PRO:HA	1.70	0.74
1:Y:322:LYS:HE2	1:Y:335:ASN:ND2	2.02	0.74
1:A:302:ASN:HD21	1:A:701:TYR:H	1.50	0.74
1:M:449:THR:HG1	1:T:501:PHE:HE2	180.92	0.74
1:J:509:TYR:HD1	1:J:518:ILE:HD13	1.51	0.74
1:D:475:PRO:HA	1:Q:519:ASN:HB3	224.53	0.74
1:M:519:ASN:HB3	1:S:475:PRO:HA	186.40	0.74
1:D:508:LYS:HB3	1:D:517:ILE:HA	1.73	0.74
1:A:322:LYS:HE2	1:A:335:ASN:ND2	2.03	0.74
1:Q:297:TRP:NE1	1:Q:301:ILE:HD11	2.15	0.74
1:5:302:ASN:HD21	1:5:701:TYR:H	1.34	0.74
1:K:551:SER:CA	1:L:464:SER:HB3	91.85	0.74
1:D:696:ASN:ND2	1:Q:393:PHE:H	210.25	0.74
1:B:501:PHE:CD2	1:O:449:THR:HG21	218.43	0.74
1:B:696:ASN:ND2	1:V:393:PHE:H	1.85	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:245:ARG:NH1	1:J:364:PRO:O	2.25	0.74
1:O:322:LYS:HE2	1:O:335:ASN:HD21	1.53	0.74
1:Q:542:ILE:HD12	1:Q:560:ILE:HG13	1.76	0.74
1:3:542:ILE:HD12	1:3:560:ILE:HG13	1.69	0.74
1:I:449:THR:HG21	1:V:501:PHE:CD2	146.79	0.74
1:H:519:ASN:HB3	1:2:475:PRO:HA	1.70	0.74
1:P:441:GLN:OE1	1:P:475:PRO:HD2	2.04	0.74
1:M:553:THR:HG23	1:M:557:ASN:HB2	1.70	0.74
1:N:553:THR:HG23	1:N:557:ASN:HB2	1.70	0.74
1:N:473:VAL:HA	1:R:517:ILE:HG22	196.82	0.74
1:N:464:SER:CB	1:5:551:SER:HA	242.13	0.74
1:B:509:TYR:HD1	1:B:518:ILE:HD13	1.51	0.74
1:M:611:ASP:OD1	1:M:730:ARG:HG3	2.12	0.74
1:W:321:VAL:HG11	1:W:339:SER:HB3	1.68	0.74
1:7:262:SER:O	1:7:265:THR:HG22	1.88	0.74
1:7:245:ARG:NH1	1:7:364:PRO:O	2.20	0.74
1:H:696:ASN:ND2	1:3:393:PHE:H	1.83	0.74
1:B:449:THR:HG22	1:P:502:THR:HG23	217.57	0.74
1:F:449:THR:HG21	1:4:501:PHE:CD2	132.89	0.74
1:Y:509:TYR:HD1	1:Y:518:ILE:HD13	1.52	0.74
1:Y:379:LEU:HD11	1:Z:437:PRO:HB3	1.70	0.74
1:S:286:ASN:HD21	1:S:619:TRP:H	1.41	0.74
1:2:286:ASN:ND2	1:2:618:ILE:H	1.85	0.74
1:2:519:ASN:HB3	1:3:475:PRO:HA	1.70	0.74
1:D:277:SER:HB2	1:H:438:LEU:HD11	170.50	0.74
1:Y:553:THR:HG23	1:Y:557:ASN:HB2	1.78	0.74
1:F:262:SER:O	1:F:265:THR:HG22	1.94	0.74
1:A:473:VAL:HA	1:J:517:ILE:HG22	1.70	0.74
1:W:508:LYS:HB3	1:W:517:ILE:HA	1.69	0.74
1:M:501:PHE:CD2	1:6:449:THR:HG21	184.43	0.74
1:D:322:LYS:HE2	1:D:335:ASN:ND2	2.03	0.74
1:O:297:TRP:NE1	1:O:301:ILE:HD11	2.16	0.74
1:Z:322:LYS:HE2	1:Z:335:ASN:ND2	2.05	0.74
1:1:508:LYS:HB3	1:1:517:ILE:HA	1.69	0.73
1:Z:508:LYS:HB3	1:Z:517:ILE:HA	1.69	0.73
1:Z:245:ARG:NH1	1:Z:364:PRO:O	2.21	0.73
1:X:277:SER:HB2	1:1:438:LEU:HD11	1.69	0.73
1:H:486:GLN:HE22	1:H:539:GLY:N	2.04	0.73
1:4:286:ASN:HD21	1:4:619:TRP:H	1.36	0.73
1:G:361:GLY:HA3	1:G:374:PRO:HG3	1.70	0.73
1:E:297:TRP:NE1	1:E:301:ILE:HD11	2.03	0.73
1:6:245:ARG:NH1	1:6:364:PRO:O	2.20	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:553:THR:HG23	1:O:557:ASN:HB2	1.69	0.73
1:G:322:LYS:HE2	1:G:335:ASN:ND2	2.02	0.73
1:R:551:SER:HA	1:7:464:SER:CB	2.15	0.73
1:T:562:ASP:OD2	1:T:564:GLU:HG3	1.87	0.73
1:R:449:THR:HG22	1:Y:502:THR:HG23	143.73	0.73
1:S:449:THR:HG1	1:6:501:PHE:HE2	1.34	0.73
1:L:517:ILE:HG22	1:T:473:VAL:HA	72.11	0.73
1:O:553:THR:HG23	1:O:557:ASN:HB2	1.69	0.73
1:6:297:TRP:NE1	1:6:301:ILE:HD11	2.02	0.73
1:E:553:THR:HG23	1:E:557:ASN:HB2	1.70	0.73
1:W:297:TRP:NE1	1:W:301:ILE:HD11	2.10	0.73
1:N:449:THR:HG21	1:R:501:PHE:CD2	211.03	0.73
1:F:509:TYR:HD1	1:F:518:ILE:HD13	1.53	0.73
1:C:450:GLN:HA	1:C:459:LYS:O	1.95	0.73
1:N:302:ASN:HD21	1:N:701:TYR:H	1.33	0.73
1:L:393:PHE:H	1:T:696:ASN:ND2	104.03	0.73
1:C:501:PHE:CD2	1:X:449:THR:HG21	202.72	0.73
1:M:408:ASN:ND2	1:N:224:ALA:H	1.95	0.73
1:V:501:PHE:HD2	1:V:501:PHE:H	1.43	0.73
1:B:473:VAL:HA	1:V:517:ILE:HG22	1.70	0.73
1:X:517:ILE:HG22	1:1:473:VAL:HA	1.70	0.73
1:Y:475:PRO:HA	1:7:519:ASN:HB3	129.22	0.73
1:I:693:LYS:HG3	1:1:399:PHE:CZ	2.23	0.73
1:P:553:THR:HG23	1:P:557:ASN:HB2	1.76	0.73
1:D:562:ASP:OD1	1:D:564:GLU:OE2	2.06	0.73
1:U:302:ASN:HD21	1:U:701:TYR:H	1.48	0.73
1:L:501:PHE:HD2	1:L:501:PHE:H	1.36	0.73
1:I:696:ASN:H	1:I:696:ASN:ND2	1.95	0.73
1:D:449:THR:HG21	1:W:501:PHE:CD2	176.48	0.73
1:4:297:TRP:NE1	1:4:301:ILE:HD11	2.03	0.73
1:Q:302:ASN:HD21	1:Q:701:TYR:H	1.35	0.73
1:U:361:GLY:HA3	1:U:374:PRO:HG3	1.70	0.73
1:I:361:GLY:HA3	1:I:374:PRO:HG3	1.70	0.73
1:H:551:SER:HA	1:W:464:SER:CB	134.04	0.73
1:P:501:PHE:CD2	1:V:449:THR:HG21	218.35	0.73
1:2:501:PHE:HD2	1:2:501:PHE:H	1.36	0.73
1:J:508:LYS:HB3	1:J:517:ILE:HA	1.69	0.73
1:R:473:VAL:HA	1:Y:517:ILE:HG22	133.08	0.73
1:M:508:LYS:HB3	1:M:517:ILE:HA	1.70	0.73
1:X:542:ILE:HD12	1:X:560:ILE:HG13	1.70	0.73
1:I:501:PHE:CD2	1:J:449:THR:HG21	97.42	0.73
1:R:286:ASN:HD21	1:R:619:TRP:H	1.39	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:475:PRO:HA	1:T:519:ASN:HB3	152.54	0.73
1:U:297:TRP:NE1	1:U:301:ILE:HD11	2.04	0.73
1:D:551:SER:HA	1:U:464:SER:CB	199.36	0.73
1:K:696:ASN:ND2	1:U:393:PHE:H	178.25	0.73
1:B:393:PHE:H	1:O:696:ASN:ND2	163.08	0.73
1:E:696:ASN:ND2	1:G:393:PHE:H	104.09	0.73
1:I:500:ASN:HA	1:J:449:THR:HG23	96.63	0.73
1:V:508:LYS:HB3	1:V:517:ILE:HA	1.73	0.73
1:I:475:PRO:HA	1:V:519:ASN:HB3	129.00	0.73
1:Z:509:TYR:HD1	1:Z:518:ILE:HD13	1.54	0.73
1:O:322:LYS:HE2	1:O:335:ASN:ND2	2.03	0.73
1:O:542:ILE:HD12	1:O:560:ILE:HG13	1.70	0.73
1:G:562:ASP:OD1	1:G:564:GLU:OE2	2.07	0.73
1:K:449:THR:HG21	1:U:501:PHE:CD2	222.30	0.73
1:C:408:ASN:ND2	1:D:224:ALA:H	1.85	0.73
1:H:473:VAL:HA	1:3:517:ILE:HG22	1.70	0.73
1:V:246:THR:HG23	1:V:678:GLN:NE2	2.29	0.73
1:R:508:LYS:HB3	1:R:517:ILE:HA	1.71	0.73
1:G:322:LYS:HE2	1:G:335:ASN:HD21	1.53	0.73
1:D:501:PHE:CD2	1:H:449:THR:HG21	221.14	0.73
1:O:286:ASN:HD21	1:O:619:TRP:H	1.38	0.73
1:N:475:PRO:HA	1:R:519:ASN:HB3	186.37	0.73
1:X:562:ASP:OD2	1:X:564:GLU:HG3	2.11	0.73
1:I:322:LYS:HE2	1:I:335:ASN:ND2	2.04	0.73
1:C:449:THR:HG1	1:N:501:PHE:HE2	123.13	0.72
1:X:501:PHE:H	1:X:501:PHE:HD2	1.43	0.72
1:O:397:GLU:HB2	1:P:367:PRO:HB2	48.29	0.72
1:J:322:LYS:HE2	1:J:335:ASN:ND2	2.04	0.72
1:L:322:LYS:HE2	1:L:335:ASN:HD21	1.52	0.72
1:4:245:ARG:NH1	1:4:364:PRO:O	2.22	0.72
1:B:361:GLY:HA3	1:B:374:PRO:HG3	1.72	0.72
1:1:542:ILE:HD12	1:1:560:ILE:HG13	1.71	0.72
1:T:553:THR:HG23	1:T:557:ASN:HB2	1.80	0.72
1:Z:542:ILE:HD12	1:Z:560:ILE:HG13	1.70	0.72
1:7:542:ILE:HD12	1:7:560:ILE:HG13	1.70	0.72
1:H:542:ILE:HD12	1:H:560:ILE:HG13	1.73	0.72
1:U:562:ASP:OD2	1:U:564:GLU:HG3	1.92	0.72
1:I:393:PHE:H	1:J:696:ASN:ND2	31.71	0.72
1:C:519:ASN:HB3	1:X:475:PRO:HA	174.16	0.72
1:B:519:ASN:HB3	1:P:475:PRO:HA	192.98	0.72
1:7:322:LYS:HE2	1:7:335:ASN:ND2	2.03	0.72
1:5:262:SER:O	1:5:265:THR:HG22	1.89	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:542:ILE:HD12	1:F:560:ILE:HG13	1.70	0.72
1:C:542:ILE:HD12	1:C:560:ILE:HG13	1.70	0.72
1:K:542:ILE:HD12	1:K:560:ILE:HG13	1.71	0.72
1:C:464:SER:CB	1:O:551:SER:HA	161.70	0.72
1:X:393:PHE:H	1:1:696:ASN:ND2	1.85	0.72
1:N:696:ASN:ND2	1:5:393:PHE:H	197.37	0.72
1:5:696:ASN:H	1:5:696:ASN:HD22	1.37	0.72
1:B:517:ILE:HG22	1:O:473:VAL:HA	196.06	0.72
1:B:517:ILE:HG22	1:P:473:VAL:HA	201.90	0.72
1:A:286:ASN:HD21	1:A:619:TRP:H	1.36	0.72
1:O:246:THR:HG23	1:O:678:GLN:NE2	2.04	0.72
1:Y:286:ASN:HD21	1:Y:619:TRP:H	1.38	0.72
1:I:322:LYS:HE2	1:I:335:ASN:HD21	1.55	0.72
1:U:562:ASP:OD1	1:U:564:GLU:OE2	2.14	0.72
1:5:297:TRP:NE1	1:5:301:ILE:HD11	2.04	0.72
1:D:501:PHE:H	1:U:449:THR:HG21	211.17	0.72
1:R:551:SER:CA	1:7:464:SER:HB3	2.18	0.72
1:P:501:PHE:H	1:P:501:PHE:HD2	1.49	0.72
1:4:322:LYS:HE2	1:4:335:ASN:HD21	1.54	0.72
1:4:322:LYS:HE2	1:4:335:ASN:ND2	2.03	0.72
1:J:464:SER:CB	1:W:551:SER:HA	2.18	0.72
1:G:487:GLN:HB3	1:G:537:MET:HE2	1.71	0.72
1:K:530:ASP:O	1:K:532:ASP:N	2.21	0.72
1:S:449:THR:HG21	1:6:501:PHE:CD2	2.25	0.72
1:D:286:ASN:HD21	1:D:619:TRP:H	1.44	0.72
1:D:312:LEU:HD12	1:D:313:ASN:H	1.55	0.72
1:K:449:THR:HG23	1:T:500:ASN:HA	1.70	0.72
1:S:501:PHE:CD2	1:T:449:THR:HG21	97.32	0.72
1:R:530:ASP:O	1:R:532:ASP:N	2.25	0.72
1:A:519:ASN:HB3	1:A:520:PRO:HD3	1.70	0.72
1:X:519:ASN:HB3	1:1:475:PRO:HA	1.70	0.72
1:U:508:LYS:HB3	1:U:517:ILE:HA	1.70	0.72
1:5:286:ASN:ND2	1:5:618:ILE:H	1.88	0.72
1:4:302:ASN:HD21	1:4:701:TYR:H	1.36	0.72
1:V:302:ASN:HD21	1:V:701:TYR:H	1.37	0.72
1:F:224:ALA:N	1:J:408:ASN:HD21	1.83	0.72
1:4:519:ASN:HB3	1:4:520:PRO:HD3	1.72	0.72
1:V:286:ASN:HD21	1:V:619:TRP:H	1.38	0.72
1:7:286:ASN:HD21	1:7:619:TRP:H	1.37	0.72
1:H:379:LEU:HD11	1:2:437:PRO:HB3	1.70	0.72
1:Y:302:ASN:HD21	1:Y:701:TYR:H	1.35	0.72
1:S:502:THR:HG23	1:T:449:THR:HG22	94.40	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:393:PHE:H	1:3:696:ASN:ND2	1.86	0.72
1:J:473:VAL:HA	1:W:517:ILE:HG22	1.70	0.72
1:Q:473:VAL:HA	1:U:517:ILE:HG22	123.67	0.72
1:6:527:HIS:NE2	1:6:564:GLU:OE2	2.22	0.72
1:R:509:TYR:HD1	1:R:518:ILE:HD13	1.55	0.72
1:6:431:LEU:HD21	1:6:478:TRP:HB2	1.72	0.72
1:A:553:THR:HG23	1:A:557:ASN:HB2	1.73	0.72
1:H:553:THR:HG23	1:H:557:ASN:HB2	1.79	0.72
1:S:322:LYS:HE2	1:S:335:ASN:ND2	2.10	0.72
1:C:464:SER:HB3	1:O:551:SER:CA	161.97	0.71
1:E:501:PHE:CD2	1:F:449:THR:HG21	2.25	0.71
1:5:621:LYS:HB2	1:5:643:PRO:HG3	1.71	0.71
1:R:246:THR:HG23	1:R:678:GLN:HE21	1.55	0.71
1:K:508:LYS:HB3	1:K:517:ILE:HA	1.74	0.71
1:H:397:GLU:HB2	1:I:367:PRO:HB2	1.83	0.71
1:O:322:LYS:HE2	1:O:335:ASN:HD21	1.67	0.71
1:Z:322:LYS:HE2	1:Z:335:ASN:HD21	1.55	0.71
1:O:297:TRP:NE1	1:O:301:ILE:HD11	2.05	0.71
1:X:322:LYS:HE2	1:X:335:ASN:HD21	1.57	0.71
1:B:464:SER:CB	1:P:551:SER:HA	211.43	0.71
1:A:472:SER:HB3	1:J:270:ASP:O	1.90	0.71
1:L:519:ASN:HB3	1:U:475:PRO:HA	172.04	0.71
1:Y:520:PRO:HG2	1:Y:635:MET:HG2	1.72	0.71
1:H:286:ASN:HD21	1:H:619:TRP:H	1.36	0.71
1:A:450:GLN:HA	1:A:459:LYS:O	1.90	0.71
1:E:312:LEU:HD12	1:E:313:ASN:H	1.81	0.71
1:V:361:GLY:HA3	1:V:374:PRO:HG3	1.81	0.71
1:P:562:ASP:OD1	1:P:564:GLU:OE2	2.10	0.71
1:3:501:PHE:H	1:3:501:PHE:HD2	1.38	0.71
1:P:286:ASN:HD21	1:P:619:TRP:H	1.38	0.71
1:5:508:LYS:HB3	1:5:517:ILE:HA	1.72	0.71
1:R:450:GLN:HA	1:R:459:LYS:O	1.99	0.71
1:K:553:THR:HG23	1:K:557:ASN:HB2	1.75	0.71
1:F:553:THR:HG23	1:F:557:ASN:HB2	1.73	0.71
1:O:551:SER:CA	1:P:464:SER:HB3	2.17	0.71
1:J:277:SER:HB2	1:V:438:LEU:HD11	144.64	0.71
1:D:519:ASN:HB3	1:U:475:PRO:HA	186.47	0.71
1:L:527:HIS:NE2	1:L:564:GLU:OE2	2.23	0.71
1:D:530:ASP:O	1:D:532:ASP:N	2.24	0.71
1:T:542:ILE:HD12	1:T:560:ILE:HG13	1.73	0.71
1:C:611:ASP:OD2	1:C:612:VAL:N	2.30	0.71
1:A:501:PHE:HD2	1:A:501:PHE:H	1.37	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:449:THR:HG21	1:7:501:PHE:CD2	148.67	0.71
1:I:473:VAL:HA	1:V:517:ILE:HG22	135.47	0.71
1:C:286:ASN:ND2	1:C:618:ILE:H	1.95	0.71
1:K:517:ILE:HG22	1:L:473:VAL:HA	74.97	0.71
1:A:501:PHE:CD2	1:Q:449:THR:HG21	218.94	0.71
1:T:224:ALA:H	1:X:408:ASN:ND2	156.17	0.71
1:A:449:THR:HG21	1:Z:501:PHE:CD2	159.03	0.71
1:K:501:PHE:CD2	1:L:449:THR:HG21	97.32	0.71
1:R:542:ILE:HD12	1:R:560:ILE:HG13	1.73	0.71
1:L:553:THR:HG23	1:L:557:ASN:HB2	1.73	0.71
1:M:449:THR:HG21	1:T:501:PHE:CD2	177.44	0.71
1:N:464:SER:HB3	1:5:551:SER:CA	243.68	0.71
1:I:519:ASN:HB3	1:J:475:PRO:HA	78.16	0.71
1:D:473:VAL:HA	1:Q:517:ILE:HG22	234.77	0.71
1:W:509:TYR:HD1	1:W:518:ILE:HD13	1.55	0.71
1:C:438:LEU:HD11	1:O:277:SER:HB2	153.86	0.71
1:4:553:THR:HG23	1:4:557:ASN:HB2	1.70	0.71
1:G:551:SER:CA	1:4:464:SER:HB3	2.15	0.71
1:L:501:PHE:HE2	1:U:449:THR:HG1	196.78	0.71
1:U:501:PHE:HD2	1:U:501:PHE:H	1.36	0.71
1:A:464:SER:CB	1:Z:551:SER:HA	164.19	0.71
1:A:245:ARG:NH1	1:A:364:PRO:O	2.24	0.71
1:E:475:PRO:HA	1:N:519:ASN:HB3	216.49	0.71
1:K:450:GLN:HA	1:K:459:LYS:O	1.90	0.71
1:5:431:LEU:HD21	1:5:478:TRP:HB2	1.72	0.71
1:1:609:ASP:OD2	1:1:630:HIS:HE1	1.73	0.71
1:N:449:THR:HG21	1:5:501:PHE:CD2	254.61	0.71
1:B:438:LEU:HD11	1:V:277:SER:HB2	1.71	0.71
1:C:519:ASN:HB3	1:R:475:PRO:HA	224.60	0.71
1:4:508:LYS:HB3	1:4:517:ILE:HA	1.72	0.71
1:S:475:PRO:HA	1:6:519:ASN:HB3	1.73	0.71
1:N:475:PRO:HA	1:5:519:ASN:HB3	221.20	0.71
1:2:508:LYS:HB3	1:2:517:ILE:HA	1.73	0.71
1:5:509:TYR:HD1	1:5:518:ILE:HD13	1.55	0.71
1:H:562:ASP:OD1	1:H:564:GLU:OE2	2.08	0.71
1:Y:297:TRP:NE1	1:Y:301:ILE:HD11	2.06	0.71
1:5:322:LYS:HE2	1:5:335:ASN:ND2	2.05	0.71
1:D:408:ASN:ND2	1:E:224:ALA:H	1.88	0.70
1:C:696:ASN:ND2	1:O:393:PHE:H	166.21	0.70
1:F:696:ASN:H	1:F:696:ASN:HD22	1.42	0.70
1:Z:486:GLN:HE22	1:Z:538:SER:H	1.39	0.70
1:Q:286:ASN:HD21	1:Q:619:TRP:H	1.37	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:450:GLN:HA	1:S:459:LYS:O	1.95	0.70
1:F:297:TRP:NE1	1:F:301:ILE:HD11	2.06	0.70
1:Y:696:ASN:ND2	1:7:393:PHE:H	110.50	0.70
1:T:527:HIS:NE2	1:T:564:GLU:OE2	2.24	0.70
1:D:449:THR:HG22	1:W:502:THR:HG23	177.65	0.70
1:B:438:LEU:HD11	1:P:277:SER:HB2	191.87	0.70
1:E:475:PRO:HA	1:G:519:ASN:HB3	62.90	0.70
1:F:530:ASP:O	1:F:532:ASP:N	2.35	0.70
1:F:562:ASP:OD2	1:F:564:GLU:HG3	2.01	0.70
1:Y:562:ASP:OD2	1:Y:564:GLU:HG3	1.91	0.70
1:N:472:SER:HB3	1:R:270:ASP:O	201.10	0.70
1:N:696:ASN:H	1:N:696:ASN:HD22	1.38	0.70
1:J:501:PHE:CD2	1:V:449:THR:HG21	132.81	0.70
1:B:475:PRO:HA	1:V:519:ASN:HB3	1.72	0.70
1:K:475:PRO:HA	1:T:519:ASN:HB3	1.72	0.70
1:F:473:VAL:HA	1:4:517:ILE:HG22	124.55	0.70
1:Z:611:ASP:OD1	1:Z:730:ARG:HG3	1.91	0.70
1:C:267:ALA:O	1:C:268:SER:HB3	1.91	0.70
1:K:262:SER:O	1:K:265:THR:HG22	2.03	0.70
1:C:551:SER:HA	1:R:464:SER:CB	237.99	0.70
1:W:487:GLN:HB3	1:W:537:MET:HE2	1.71	0.70
1:O:501:PHE:H	1:O:501:PHE:HD2	1.39	0.70
1:L:519:ASN:HB3	1:T:475:PRO:HA	62.75	0.70
1:C:475:PRO:HA	1:O:519:ASN:HB3	162.69	0.70
1:K:486:GLN:HE22	1:K:538:SER:H	1.55	0.70
1:W:562:ASP:OD2	1:W:564:GLU:HG3	1.98	0.70
1:6:508:LYS:HB3	1:6:517:ILE:HA	1.73	0.70
1:I:562:ASP:OD1	1:I:564:GLU:OE2	2.14	0.70
1:S:698:GLU:OE1	1:S:733:THR:HG23	2.04	0.70
1:Y:438:LEU:HD11	1:O:277:SER:HB2	1.73	0.70
1:P:322:LYS:HE2	1:P:335:ASN:ND2	2.09	0.70
1:O:464:SER:CB	1:X:551:SER:HA	181.59	0.70
1:C:449:THR:HG22	1:O:502:THR:HG23	180.10	0.70
1:F:551:SER:HA	1:G:464:SER:CB	91.09	0.70
1:K:487:GLN:HB3	1:K:537:MET:HE2	1.74	0.70
1:P:277:SER:HB2	1:V:438:LEU:HD11	181.31	0.70
1:Z:519:ASN:HB3	1:O:475:PRO:HA	1.72	0.70
1:W:486:GLN:HE22	1:W:538:SER:H	1.44	0.70
1:E:519:ASN:HB3	1:5:475:PRO:HA	126.33	0.70
1:B:530:ASP:O	1:B:532:ASP:N	2.26	0.70
1:6:532:ASP:OD2	1:6:562:ASP:OD1	2.09	0.70
1:D:297:TRP:NE1	1:D:301:ILE:HD11	2.07	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:501:PHE:HE2	1:Q:449:THR:HG1	219.14	0.70
1:S:501:PHE:HD2	1:S:501:PHE:H	1.39	0.70
1:M:551:SER:HA	1:S:464:SER:CB	199.23	0.70
1:Q:486:GLN:HE22	1:Q:538:SER:H	1.48	0.70
1:L:508:LYS:HB3	1:L:517:ILE:HA	1.74	0.70
1:J:562:ASP:OD2	1:J:564:GLU:HG3	2.06	0.70
1:G:455:SER:O	1:G:456:ALA:HB3	2.36	0.70
1:H:626:ASP:H	1:2:608:GLN:NE2	1.90	0.70
1:2:302:ASN:HD21	1:2:701:TYR:H	1.40	0.70
1:W:262:SER:O	1:W:265:THR:HG22	1.92	0.70
1:2:553:THR:HG23	1:2:557:ASN:HB2	1.74	0.70
1:S:611:ASP:OD2	1:S:612:VAL:N	2.24	0.70
1:K:286:ASN:HD21	1:K:618:ILE:H	1.61	0.70
1:M:501:PHE:CD2	1:S:449:THR:HG21	210.94	0.70
1:Y:450:GLN:HA	1:Y:459:LYS:O	1.92	0.70
1:B:501:PHE:HA	1:B:504:THR:HG22	1.89	0.70
1:I:501:PHE:HD2	1:I:501:PHE:H	1.38	0.70
1:B:449:THR:HG21	1:P:501:PHE:CD2	218.92	0.70
1:K:475:PRO:HA	1:U:519:ASN:HB3	193.81	0.70
1:A:367:PRO:HB2	1:E:397:GLU:HB2	1.74	0.70
1:3:508:LYS:HB3	1:3:517:ILE:HA	1.74	0.70
1:N:509:TYR:HD1	1:N:518:ILE:HD13	1.58	0.70
1:K:437:PRO:HB3	1:T:379:LEU:HD11	1.73	0.70
1:B:551:SER:CA	1:P:464:SER:HB3	212.59	0.70
1:1:405:ARG:H	1:1:408:ASN:HD22	1.38	0.70
1:2:501:PHE:CD2	1:3:449:THR:HG21	2.27	0.70
1:Q:519:ASN:HB3	1:Z:475:PRO:HA	118.54	0.70
1:G:302:ASN:HD21	1:G:701:TYR:H	1.41	0.70
1:F:302:ASN:HD21	1:F:701:TYR:H	1.46	0.70
1:C:502:THR:HG23	1:X:449:THR:HG22	197.96	0.70
1:V:486:GLN:HE22	1:V:538:SER:H	1.37	0.70
1:O:475:PRO:HA	1:X:519:ASN:HB3	174.19	0.70
1:B:611:ASP:OD2	1:B:612:VAL:N	2.24	0.70
1:A:530:ASP:O	1:A:532:ASP:N	2.30	0.70
1:D:289:HIS:CE1	1:D:365:PRO:HG3	2.53	0.70
1:3:245:ARG:NH1	1:3:364:PRO:O	2.25	0.70
1:Z:551:SER:CA	1:O:464:SER:HB3	2.21	0.69
1:A:464:SER:HB3	1:J:551:SER:CA	2.22	0.69
1:R:286:ASN:HD21	1:R:618:ILE:H	1.40	0.69
1:B:277:SER:HB2	1:P:438:LEU:HD11	191.74	0.69
1:A:609:ASP:OD2	1:A:630:HIS:HE1	1.75	0.69
1:S:322:LYS:HE2	1:S:335:ASN:HD21	1.61	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:312:LEU:HD12	1:L:313:ASN:H	1.56	0.69
1:T:555:LEU:O	1:T:555:LEU:HD23	1.92	0.69
1:4:611:ASP:OD2	1:4:612:VAL:N	2.24	0.69
1:V:486:GLN:HE22	1:V:539:GLY:N	2.19	0.69
1:Q:475:PRO:HA	1:U:519:ASN:HB3	114.22	0.69
1:C:562:ASP:OD2	1:C:564:GLU:HG3	2.05	0.69
1:I:611:ASP:OD2	1:I:612:VAL:N	2.27	0.69
1:F:399:PHE:CZ	1:G:693:LYS:HG3	38.15	0.69
1:Q:312:LEU:HD12	1:Q:313:ASN:H	1.71	0.69
1:7:553:THR:HG23	1:7:557:ASN:HB2	1.74	0.69
1:0:361:GLY:HA3	1:0:374:PRO:HG3	1.73	0.69
1:Q:245:ARG:NH1	1:Q:364:PRO:O	2.25	0.69
1:3:562:ASP:OD1	1:3:564:GLU:OE2	2.10	0.69
1:A:464:SER:CB	1:J:551:SER:HA	2.22	0.69
1:S:519:ASN:HB3	1:T:475:PRO:HA	78.08	0.69
1:B:562:ASP:OD2	1:B:564:GLU:HG3	2.00	0.69
1:W:321:VAL:HG11	1:W:339:SER:CB	2.21	0.69
1:X:562:ASP:OD1	1:X:564:GLU:OE2	2.17	0.69
1:M:397:GLU:HB2	1:N:367:PRO:HB2	1.81	0.69
1:I:608:GLN:NE2	1:I:626:ASP:H	1.91	0.69
1:A:449:THR:HG21	1:J:501:PHE:CD2	2.27	0.69
1:D:517:ILE:HG22	1:H:473:VAL:HA	193.53	0.69
1:K:473:VAL:HA	1:U:517:ILE:HG22	202.16	0.69
1:M:473:VAL:HA	1:S:517:ILE:HG22	193.39	0.69
1:U:486:GLN:HE22	1:U:539:GLY:N	2.09	0.69
1:A:693:LYS:HG3	1:Z:399:PHE:CZ	149.08	0.69
1:B:450:GLN:HA	1:B:459:LYS:O	1.95	0.69
1:W:450:GLN:HA	1:W:459:LYS:O	1.93	0.69
1:S:553:THR:HG23	1:S:557:ASN:HB2	1.74	0.69
1:I:302:ASN:HD21	1:I:701:TYR:H	1.46	0.69
1:7:431:LEU:HD21	1:7:478:TRP:HB2	1.73	0.69
1:O:262:SER:O	1:O:265:THR:HG22	1.98	0.69
1:M:299:ARG:NH1	1:U:690:GLU:OE2	149.72	0.69
1:X:302:ASN:HD21	1:X:701:TYR:H	1.48	0.69
1:E:608:GLN:NE2	1:N:626:ASP:H	192.83	0.69
1:E:696:ASN:ND2	1:N:393:PHE:H	200.43	0.69
1:E:393:PHE:H	1:5:696:ASN:ND2	122.48	0.69
1:7:527:HIS:NE2	1:7:564:GLU:OE2	2.26	0.69
1:A:438:LEU:HD11	1:J:277:SER:HB2	1.72	0.69
1:S:441:GLN:OE1	1:S:475:PRO:HD2	1.99	0.69
1:C:473:VAL:HA	1:O:517:ILE:HG22	172.46	0.69
1:U:611:ASP:OD1	1:U:730:ARG:HG3	1.92	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:611:ASP:OD1	1:J:730:ARG:HG3	1.93	0.69
1:R:553:THR:HG23	1:R:557:ASN:HB2	1.84	0.69
1:B:423:SER:HB2	1:B:425:TYR:CE2	2.26	0.69
1:M:464:SER:CB	1:T:551:SER:HA	176.99	0.69
1:D:551:SER:CA	1:U:464:SER:HB3	200.59	0.69
1:O:696:ASN:H	1:O:696:ASN:ND2	1.91	0.69
1:Y:449:THR:HG22	1:O:502:THR:HG23	1.75	0.69
1:M:501:PHE:HD2	1:M:501:PHE:H	1.48	0.69
1:F:441:GLN:OE1	1:F:475:PRO:HD2	1.92	0.69
1:M:517:ILE:HG22	1:6:473:VAL:HA	172.45	0.69
1:Q:438:LEU:HD11	1:U:277:SER:HB2	123.45	0.69
1:T:302:ASN:HD21	1:T:701:TYR:H	1.38	0.69
1:H:501:PHE:HA	1:H:504:THR:HG22	1.74	0.69
1:K:449:THR:HG22	1:T:502:THR:HG23	1.74	0.69
1:K:696:ASN:H	1:K:696:ASN:ND2	1.89	0.69
1:A:435:MET:HG2	1:A:474:GLN:OE1	1.93	0.69
1:X:441:GLN:OE1	1:X:475:PRO:HD2	1.93	0.69
1:S:449:THR:HG22	1:6:502:THR:HG23	1.73	0.69
1:U:486:GLN:HE22	1:U:538:SER:H	1.40	0.69
1:Y:361:GLY:HA3	1:Y:374:PRO:HG3	1.74	0.69
1:H:302:ASN:HD21	1:H:701:TYR:H	1.47	0.69
1:O:551:SER:HA	1:P:464:SER:CB	2.20	0.69
1:Z:551:SER:HA	1:O:464:SER:CB	2.21	0.69
1:R:393:PHE:H	1:7:696:ASN:ND2	1.90	0.69
1:D:519:ASN:HB3	1:H:475:PRO:HA	189.07	0.69
1:J:530:ASP:O	1:J:532:ASP:N	2.24	0.69
1:7:441:GLN:OE1	1:7:475:PRO:HD2	1.93	0.69
1:V:450:GLN:HA	1:V:459:LYS:O	1.93	0.69
1:O:262:SER:O	1:O:265:THR:HG22	1.92	0.69
1:V:262:SER:O	1:V:265:THR:HG22	2.00	0.69
1:T:322:LYS:HE2	1:T:335:ASN:ND2	2.07	0.69
1:P:361:GLY:HA3	1:P:374:PRO:HG3	1.75	0.69
1:J:297:TRP:NE1	1:J:301:ILE:HD11	2.08	0.69
1:X:609:ASP:OD2	1:X:630:HIS:HE1	1.88	0.69
1:W:501:PHE:H	1:W:501:PHE:HD2	1.45	0.69
1:F:696:ASN:ND2	1:F:696:ASN:H	1.94	0.69
1:I:517:ILE:HG22	1:X:473:VAL:HA	1.75	0.69
1:A:562:ASP:OD1	1:A:564:GLU:OE2	2.21	0.69
1:3:322:LYS:HE2	1:3:335:ASN:ND2	2.08	0.69
1:L:551:SER:CA	1:U:464:SER:HB3	175.32	0.69
1:M:551:SER:HA	1:6:464:SER:CB	161.60	0.69
1:Y:464:SER:HB3	1:7:551:SER:CA	142.05	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:449:THR:HG21	1:G:501:PHE:CD2	64.16	0.69
1:Z:408:ASN:ND2	1:O:224:ALA:H	74.32	0.69
1:7:696:ASN:HD22	1:7:696:ASN:H	1.40	0.69
1:Q:501:PHE:HD2	1:Q:501:PHE:H	1.43	0.69
1:J:501:PHE:HA	1:J:504:THR:HG22	1.74	0.69
1:K:286:ASN:HD21	1:K:619:TRP:H	1.40	0.69
1:E:562:ASP:OD2	1:E:564:GLU:HG3	1.97	0.69
1:Y:475:PRO:HA	1:O:519:ASN:HB3	1.75	0.69
1:W:609:ASP:OD2	1:W:630:HIS:HE1	1.93	0.69
1:E:464:SER:CB	1:N:551:SER:HA	233.04	0.68
1:R:475:PRO:HA	1:Y:519:ASN:HB3	126.41	0.68
1:N:286:ASN:HD21	1:N:619:TRP:H	1.40	0.68
1:B:519:ASN:HB3	1:O:475:PRO:HA	189.43	0.68
1:A:486:GLN:HE22	1:A:538:SER:H	1.40	0.68
1:U:286:ASN:HD21	1:U:619:TRP:H	1.38	0.68
1:X:322:LYS:HE2	1:X:335:ASN:ND2	2.08	0.68
1:X:611:ASP:OD1	1:X:730:ARG:HG3	1.92	0.68
1:D:302:ASN:HD21	1:D:701:TYR:H	1.40	0.68
1:F:450:GLN:HA	1:F:459:LYS:O	1.93	0.68
1:T:297:TRP:NE1	1:T:301:ILE:HD11	2.08	0.68
1:X:262:SER:O	1:X:265:THR:HG22	1.91	0.68
1:A:501:PHE:HA	1:A:504:THR:HG22	1.74	0.68
1:N:487:GLN:HB3	1:N:537:MET:HE2	1.76	0.68
1:P:408:ASN:ND2	1:Q:224:ALA:H	1.91	0.68
1:Z:501:PHE:H	1:Z:501:PHE:HD2	1.44	0.68
1:E:487:GLN:HB3	1:E:537:MET:HE2	1.75	0.68
1:P:562:ASP:OD2	1:P:564:GLU:HG3	1.93	0.68
1:H:615:GLN:HE22	1:H:726:PRO:HA	1.58	0.68
1:V:611:ASP:OD1	1:V:730:ARG:HG3	1.93	0.68
1:Z:553:THR:HG23	1:Z:557:ASN:HB2	1.75	0.68
1:L:698:GLU:OE1	1:L:733:THR:HG23	1.93	0.68
1:E:355:LEU:HD23	1:E:646:GLN:HG2	1.75	0.68
1:D:502:THR:HG23	1:U:449:THR:HG22	208.33	0.68
1:C:551:SER:CA	1:R:464:SER:HB3	239.11	0.68
1:I:437:PRO:HB3	1:V:379:LEU:HD11	129.20	0.68
1:C:517:ILE:HG22	1:X:473:VAL:HA	180.50	0.68
1:T:486:GLN:HE22	1:T:539:GLY:N	1.92	0.68
1:H:611:ASP:OD2	1:H:612:VAL:N	2.25	0.68
1:2:555:LEU:O	1:2:555:LEU:HD23	1.94	0.68
1:Z:312:LEU:HD12	1:Z:313:ASN:H	1.58	0.68
1:O:464:SER:HB3	1:X:551:SER:CA	182.07	0.68
1:R:532:ASP:OD2	1:R:562:ASP:OD1	2.12	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:501:PHE:H	1:K:501:PHE:HD2	1.53	0.68
1:Y:277:SER:HB2	1:Z:438:LEU:HD11	1.75	0.68
1:G:277:SER:HB2	1:4:438:LEU:HD11	1.75	0.68
1:K:473:VAL:HA	1:T:517:ILE:HG22	1.76	0.68
1:T:611:ASP:OD2	1:T:612:VAL:N	2.26	0.68
1:1:286:ASN:ND2	1:1:618:ILE:H	1.91	0.68
1:D:321:VAL:HG11	1:D:339:SER:HB3	1.75	0.68
1:I:615:GLN:HE22	1:I:726:PRO:HA	1.58	0.68
1:3:262:SER:O	1:3:265:THR:HG22	1.93	0.68
1:K:696:ASN:ND2	1:T:393:PHE:H	1.90	0.68
1:B:501:PHE:HD2	1:B:501:PHE:H	1.43	0.68
1:O:696:ASN:H	1:O:696:ASN:HD22	1.41	0.68
1:V:696:ASN:ND2	1:V:696:ASN:H	1.95	0.68
1:L:696:ASN:ND2	1:L:696:ASN:H	1.96	0.68
1:L:408:ASN:ND2	1:M:224:ALA:H	1.91	0.68
1:N:530:ASP:O	1:N:532:ASP:N	2.26	0.68
1:J:321:VAL:HG11	1:J:339:SER:HB3	1.74	0.68
1:L:431:LEU:HD21	1:L:478:TRP:HB2	1.79	0.68
1:2:361:GLY:HA3	1:2:374:PRO:HG3	1.74	0.68
1:0:562:ASP:OD1	1:0:564:GLU:OE2	2.11	0.68
1:C:297:TRP:NE1	1:C:301:ILE:HD11	2.09	0.68
1:F:611:ASP:OD1	1:F:730:ARG:HG3	1.93	0.68
1:X:696:ASN:HD22	1:X:696:ASN:H	1.62	0.68
1:N:501:PHE:HD2	1:N:501:PHE:H	1.47	0.68
1:A:696:ASN:ND2	1:Z:393:PHE:H	166.32	0.68
1:E:501:PHE:HA	1:E:504:THR:HG22	1.76	0.68
1:B:475:PRO:HA	1:P:519:ASN:HB3	192.98	0.68
1:T:367:PRO:HB2	1:X:397:GLU:HB2	174.36	0.68
1:G:379:LEU:HD11	1:4:437:PRO:HB3	1.76	0.68
1:F:508:LYS:HA	1:F:518:ILE:HG12	1.76	0.68
1:J:527:HIS:NE2	1:J:564:GLU:OE2	2.46	0.68
1:1:312:LEU:HD12	1:1:313:ASN:H	1.58	0.68
1:6:553:THR:HG23	1:6:557:ASN:HB2	1.76	0.68
1:C:615:GLN:HE22	1:C:726:PRO:HA	1.75	0.68
1:W:361:GLY:HA3	1:W:374:PRO:HG3	1.74	0.68
1:J:696:ASN:H	1:J:696:ASN:ND2	2.07	0.68
1:G:501:PHE:HD2	1:G:501:PHE:H	1.41	0.68
1:X:501:PHE:H	1:1:449:THR:HG21	1.58	0.68
1:D:449:THR:HG1	1:W:501:PHE:HE2	177.95	0.68
1:M:475:PRO:HA	1:S:519:ASN:HB3	189.03	0.68
1:B:486:GLN:HE22	1:B:539:GLY:N	1.91	0.68
1:C:472:SER:HB3	1:O:270:ASP:O	178.92	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:530:ASP:O	1:Q:532:ASP:N	2.29	0.68
1:6:322:LYS:HE2	1:6:335:ASN:HD21	1.58	0.68
1:N:361:GLY:HA3	1:N:374:PRO:HG3	1.76	0.68
1:7:361:GLY:HA3	1:7:374:PRO:HG3	1.76	0.68
1:O:555:LEU:HD23	1:O:555:LEU:O	1.99	0.68
1:5:611:ASP:OD2	1:5:612:VAL:N	2.26	0.68
1:K:464:SER:CB	1:U:551:SER:HA	212.63	0.68
1:P:551:SER:HA	1:V:464:SER:CB	208.26	0.68
1:C:449:THR:HG21	1:O:501:PHE:CD2	184.47	0.68
1:E:696:ASN:H	1:E:696:ASN:HD22	1.55	0.68
1:G:393:PHE:H	1:4:696:ASN:ND2	1.91	0.68
1:P:393:PHE:H	1:V:696:ASN:ND2	163.14	0.68
1:A:449:THR:HG21	1:J:501:PHE:H	1.59	0.68
1:R:501:PHE:CD2	1:7:449:THR:HG21	2.28	0.68
1:R:437:PRO:HB3	1:Y:379:LEU:HD11	128.14	0.68
1:F:282:TYR:CE2	1:F:374:PRO:HB2	2.29	0.68
1:F:322:LYS:O	1:F:673:GLN:HB2	1.94	0.68
1:E:530:ASP:O	1:E:532:ASP:N	2.33	0.68
1:K:437:PRO:HB3	1:U:379:LEU:HD11	193.29	0.68
1:5:555:LEU:O	1:5:555:LEU:HD23	1.93	0.68
1:4:262:SER:O	1:4:265:THR:HG22	1.94	0.68
1:N:322:LYS:HE2	1:N:335:ASN:ND2	2.09	0.68
1:O:519:ASN:HB3	1:P:475:PRO:HA	1.76	0.68
1:O:473:VAL:HA	1:X:517:ILE:HG22	179.85	0.68
1:P:262:SER:O	1:P:265:THR:HG22	1.94	0.68
1:G:551:SER:HA	1:4:464:SER:CB	2.19	0.68
1:M:551:SER:CA	1:6:464:SER:HB3	161.84	0.68
1:C:696:ASN:ND2	1:N:393:PHE:H	133.87	0.68
1:1:487:GLN:HB3	1:1:537:MET:HE2	1.76	0.68
1:U:408:ASN:ND2	1:V:224:ALA:H	1.97	0.68
1:S:530:ASP:O	1:S:532:ASP:N	2.26	0.68
1:E:379:LEU:HD11	1:F:437:PRO:HB3	1.76	0.68
1:H:508:LYS:HB3	1:H:517:ILE:HA	1.81	0.68
1:F:486:GLN:HE22	1:F:538:SER:H	1.43	0.68
1:N:437:PRO:HB3	1:R:379:LEU:HD11	191.75	0.68
1:X:611:ASP:OD2	1:X:612:VAL:N	2.36	0.68
1:P:312:LEU:HD12	1:P:313:ASN:H	1.58	0.68
1:M:542:ILE:HD12	1:M:560:ILE:HG13	1.76	0.68
1:W:611:ASP:OD1	1:W:730:ARG:HG3	1.93	0.68
1:G:555:LEU:O	1:G:555:LEU:HD23	2.04	0.68
1:G:698:GLU:OE1	1:G:733:THR:HG23	2.06	0.68
1:X:487:GLN:HB3	1:X:537:MET:HE2	1.76	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:224:ALA:H	1:2:408:ASN:ND2	91.21	0.67
1:C:501:PHE:HA	1:C:504:THR:HG22	1.75	0.67
1:J:449:THR:HG21	1:W:501:PHE:CD2	2.29	0.67
1:7:527:HIS:CE1	1:7:564:GLU:CD	2.68	0.67
1:J:519:ASN:HB3	1:J:520:PRO:CD	2.32	0.67
1:P:519:ASN:HB3	1:V:475:PRO:HA	189.38	0.67
1:G:517:ILE:HD11	1:G:538:SER:CB	2.45	0.67
1:N:473:VAL:HA	1:5:517:ILE:HG22	229.73	0.67
1:U:262:SER:O	1:U:265:THR:HG22	2.00	0.67
1:D:487:GLN:HB3	1:D:537:MET:HE2	1.75	0.67
1:3:297:TRP:NE1	1:3:301:ILE:HD11	2.09	0.67
1:U:553:THR:HG23	1:U:557:ASN:HB2	1.76	0.67
1:R:287:ARG:HD2	1:7:442:TYR:CZ	2.29	0.67
1:S:398:TYR:OH	1:T:296:ASP:OD1	2.12	0.67
1:S:393:PHE:H	1:T:696:ASN:ND2	31.69	0.67
1:R:501:PHE:HA	1:R:504:THR:HG22	1.84	0.67
1:E:473:VAL:HA	1:N:517:ILE:HG22	226.34	0.67
1:2:486:GLN:HE22	1:2:539:GLY:N	1.92	0.67
1:H:562:ASP:OD2	1:H:564:GLU:HG3	1.94	0.67
1:U:609:ASP:OD2	1:U:630:HIS:HE1	1.85	0.67
1:6:322:LYS:HE2	1:6:335:ASN:ND2	2.08	0.67
1:D:464:SER:CB	1:W:551:SER:HA	178.68	0.67
1:C:487:GLN:HB3	1:C:537:MET:HE2	1.76	0.67
1:V:501:PHE:HA	1:V:504:THR:HG22	1.74	0.67
1:B:437:PRO:HB3	1:V:379:LEU:HD11	1.77	0.67
1:J:519:ASN:HB3	1:V:475:PRO:HA	118.43	0.67
1:L:530:ASP:O	1:L:532:ASP:N	2.30	0.67
1:Z:530:ASP:O	1:Z:532:ASP:N	2.32	0.67
1:D:277:SER:HB2	1:U:438:LEU:HD11	188.08	0.67
1:I:530:ASP:O	1:I:532:ASP:N	2.35	0.67
1:M:399:PHE:CZ	1:6:693:LYS:HG3	144.15	0.67
1:D:611:ASP:OD2	1:D:612:VAL:N	2.28	0.67
1:J:551:SER:HA	1:V:464:SER:CB	145.50	0.67
1:2:441:GLN:OE1	1:2:475:PRO:HD2	1.94	0.67
1:X:519:ASN:O	1:X:521:GLY:N	2.46	0.67
1:X:530:ASP:O	1:X:532:ASP:N	2.26	0.67
1:1:361:GLY:HA3	1:1:374:PRO:HG3	1.76	0.67
1:7:297:TRP:NE1	1:7:301:ILE:HD11	2.10	0.67
1:Y:312:LEU:HD12	1:Y:313:ASN:H	1.63	0.67
1:Z:696:ASN:H	1:Z:696:ASN:HD22	1.51	0.67
1:M:551:SER:CA	1:S:464:SER:HB3	200.45	0.67
1:F:551:SER:CA	1:G:464:SER:HB3	91.91	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:530:ASP:O	1:O:532:ASP:N	2.28	0.67
1:U:322:LYS:HB2	1:U:674:TYR:CE1	2.35	0.67
1:M:693:LYS:HG3	1:S:399:PHE:CZ	138.09	0.67
1:U:698:GLU:OE1	1:U:733:THR:HG23	2.01	0.67
1:Z:555:LEU:HD23	1:Z:555:LEU:O	1.95	0.67
1:N:297:TRP:NE1	1:N:301:ILE:HD11	2.20	0.67
1:2:530:ASP:O	1:2:532:ASP:N	2.27	0.67
1:T:530:ASP:O	1:T:532:ASP:N	2.28	0.67
1:J:408:ASN:ND2	1:K:224:ALA:H	181.01	0.67
1:Q:408:ASN:ND2	1:R:224:ALA:H	1.98	0.67
1:R:562:ASP:OD2	1:R:564:GLU:HG3	1.94	0.67
1:A:519:ASN:HB3	1:Q:475:PRO:HA	192.96	0.67
1:Y:519:ASN:HB3	1:Y:520:PRO:CD	2.24	0.67
1:Y:530:ASP:O	1:Y:532:ASP:N	2.24	0.67
1:2:519:ASN:O	1:2:520:PRO:C	2.28	0.67
1:T:286:ASN:HD21	1:T:619:TRP:H	1.47	0.67
1:O:302:ASN:HD21	1:O:701:TYR:H	1.42	0.67
1:I:551:SER:HA	1:X:464:SER:CB	2.24	0.67
1:T:696:ASN:H	1:T:696:ASN:HD22	1.47	0.67
1:U:696:ASN:H	1:U:696:ASN:ND2	1.93	0.67
1:C:501:PHE:CD2	1:R:449:THR:HG21	257.10	0.67
1:R:501:PHE:H	1:R:501:PHE:HD2	1.40	0.67
1:I:441:GLN:OE1	1:I:475:PRO:HD2	2.00	0.67
1:X:379:LEU:HD11	1:1:437:PRO:HB3	1.77	0.67
1:S:517:ILE:HG22	1:T:473:VAL:HA	74.96	0.67
1:1:450:GLN:HA	1:1:459:LYS:O	1.94	0.67
1:O:608:GLN:NE2	1:X:626:ASP:H	157.33	0.67
1:X:611:ASP:HB2	1:X:730:ARG:NH1	2.10	0.67
1:N:450:GLN:HA	1:N:459:LYS:O	1.97	0.67
1:P:698:GLU:OE1	1:P:733:THR:HG23	1.94	0.67
1:4:555:LEU:O	1:4:555:LEU:HD23	1.93	0.67
1:F:289:HIS:CD2	1:F:365:PRO:HG3	2.30	0.67
1:J:551:SER:CA	1:V:464:SER:HB3	147.33	0.67
1:O:501:PHE:CD2	1:P:449:THR:HG21	2.30	0.67
1:O:449:THR:HG22	1:X:502:THR:HG23	197.35	0.67
1:J:486:GLN:HE22	1:J:539:GLY:N	1.92	0.67
1:B:473:VAL:HA	1:P:517:ILE:HG22	202.00	0.67
1:C:508:LYS:HA	1:C:518:ILE:HG12	1.76	0.67
1:O:361:GLY:HA3	1:O:374:PRO:HG3	1.83	0.67
1:2:551:SER:CA	1:3:464:SER:HB3	2.19	0.67
1:R:408:ASN:ND2	1:S:224:ALA:H	2.04	0.67
1:D:473:VAL:HA	1:W:517:ILE:HG22	163.38	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:441:GLN:OE1	1:L:475:PRO:HD2	1.95	0.67
1:4:530:ASP:O	1:4:532:ASP:N	2.28	0.67
1:U:530:ASP:O	1:U:532:ASP:N	2.32	0.67
1:H:530:ASP:O	1:H:532:ASP:N	2.27	0.67
1:0:487:GLN:HB3	1:0:537:MET:HE2	1.77	0.67
1:Q:262:SER:O	1:Q:265:THR:HG22	1.95	0.67
1:D:501:PHE:HD2	1:D:501:PHE:H	1.43	0.67
1:J:696:ASN:HD22	1:J:696:ASN:H	1.55	0.67
1:Y:464:SER:CB	1:0:551:SER:HA	2.24	0.67
1:0:486:GLN:HE22	1:0:539:GLY:N	1.92	0.67
1:Z:487:GLN:HB3	1:Z:537:MET:HE2	1.79	0.67
1:Q:449:THR:HG22	1:U:502:THR:HG23	125.83	0.66
1:V:530:ASP:O	1:V:532:ASP:N	2.34	0.66
1:Q:379:LEU:HD11	1:Z:437:PRO:HB3	135.51	0.66
1:M:530:ASP:O	1:M:532:ASP:N	2.36	0.66
1:X:520:PRO:HG2	1:X:635:MET:HG2	1.78	0.66
1:M:473:VAL:HA	1:T:517:ILE:HG22	156.24	0.66
1:C:302:ASN:HD21	1:C:701:TYR:H	1.47	0.66
1:5:553:THR:HG23	1:5:557:ASN:HB2	1.77	0.66
1:J:698:GLU:OE1	1:J:733:THR:HG23	1.94	0.66
1:D:361:GLY:HA3	1:D:374:PRO:HG3	1.76	0.66
1:X:696:ASN:H	1:X:696:ASN:ND2	2.06	0.66
1:Y:501:PHE:HD2	1:Y:501:PHE:H	1.41	0.66
1:5:696:ASN:H	1:5:696:ASN:ND2	1.89	0.66
1:J:501:PHE:HD2	1:J:501:PHE:H	1.43	0.66
1:V:562:ASP:CG	1:V:564:GLU:HG3	2.30	0.66
1:B:441:GLN:OE1	1:B:475:PRO:HD2	1.95	0.66
1:X:519:ASN:O	1:X:520:PRO:C	2.38	0.66
1:3:441:GLN:OE1	1:3:475:PRO:HD2	1.94	0.66
1:1:398:TYR:OH	1:2:296:ASP:OD1	2.12	0.66
1:M:438:LEU:HD11	1:T:277:SER:HB2	154.34	0.66
1:B:299:ARG:NH1	1:W:690:GLU:OE2	2.29	0.66
1:F:609:ASP:OD2	1:F:630:HIS:HE1	1.79	0.66
1:S:321:VAL:HG11	1:S:339:SER:HB3	1.95	0.66
1:A:262:SER:O	1:A:265:THR:HG22	1.96	0.66
1:I:696:ASN:ND2	1:V:393:PHE:H	124.30	0.66
1:W:408:ASN:ND2	1:X:224:ALA:H	1.93	0.66
1:3:696:ASN:ND2	1:3:696:ASN:H	1.93	0.66
1:H:441:GLN:OE1	1:H:475:PRO:HD2	1.97	0.66
1:D:441:GLN:OE1	1:D:475:PRO:HD2	2.06	0.66
1:6:501:PHE:N	1:6:501:PHE:CD2	2.64	0.66
1:L:532:ASP:OD1	1:L:564:GLU:OE2	2.13	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:473:VAL:HA	1:G:517:ILE:HG22	72.34	0.66
1:O:509:TYR:HD1	1:O:518:ILE:CD1	2.22	0.66
1:2:450:GLN:HA	1:2:459:LYS:O	1.95	0.66
1:5:322:LYS:HE2	1:5:335:ASN:HD21	1.59	0.66
1:I:527:HIS:CE1	1:I:564:GLU:CD	2.75	0.66
1:F:611:ASP:HB2	1:F:730:ARG:NH1	2.11	0.66
1:1:611:ASP:OD2	1:1:612:VAL:N	2.29	0.66
1:L:615:GLN:HE22	1:L:726:PRO:HA	1.63	0.66
1:P:486:GLN:HE22	1:P:538:SER:H	1.43	0.66
1:P:379:LEU:HD11	1:V:437:PRO:HB3	182.60	0.66
1:Y:367:PRO:HB2	1:2:397:GLU:HB2	100.26	0.66
1:O:441:GLN:OE1	1:O:475:PRO:HD2	2.09	0.66
1:L:532:ASP:OD2	1:L:562:ASP:OD1	2.14	0.66
1:O:286:ASN:ND2	1:O:618:ILE:H	1.93	0.66
1:Y:609:ASP:OD2	1:Y:630:HIS:HE1	1.77	0.66
1:2:270:ASP:O	1:3:472:SER:HB3	1.95	0.66
1:G:562:ASP:OD2	1:G:564:GLU:HG3	1.96	0.66
1:D:450:GLN:HA	1:D:459:LYS:O	1.96	0.66
1:M:608:GLN:NE2	1:T:626:ASP:H	111.49	0.66
1:H:361:GLY:HA3	1:H:374:PRO:HG3	1.80	0.66
1:U:487:GLN:HB3	1:U:537:MET:HE2	1.77	0.66
1:L:611:ASP:OD2	1:L:612:VAL:N	2.30	0.66
1:1:297:TRP:NE1	1:1:301:ILE:HD11	2.09	0.66
1:M:449:THR:HG22	1:T:502:THR:HG23	177.35	0.66
1:R:696:ASN:ND2	1:R:696:ASN:H	2.00	0.66
1:N:696:ASN:H	1:N:696:ASN:ND2	1.94	0.66
1:B:408:ASN:ND2	1:C:224:ALA:H	1.88	0.66
1:Z:615:GLN:HE22	1:Z:726:PRO:HA	1.62	0.66
1:I:520:PRO:HG2	1:I:635:MET:HG2	1.76	0.66
1:O:615:GLN:HE22	1:O:726:PRO:HA	1.72	0.66
1:P:322:LYS:HE2	1:P:335:ASN:HD21	1.63	0.66
1:T:296:ASP:OD1	1:X:398:TYR:OH	167.63	0.66
1:L:611:ASP:HB2	1:L:730:ARG:NH1	2.10	0.66
1:N:690:GLU:OE2	1:S:299:ARG:NH1	165.44	0.66
1:Z:262:SER:O	1:Z:265:THR:HG22	2.03	0.66
1:Q:361:GLY:HA3	1:Q:374:PRO:HG3	1.77	0.66
1:G:262:SER:O	1:G:265:THR:HG22	1.96	0.66
1:T:501:PHE:HA	1:T:504:THR:HG22	1.76	0.66
1:E:551:SER:HA	1:5:464:SER:CB	136.16	0.66
1:Z:446:LEU:HD13	1:Z:463:PHE:CE2	2.31	0.66
1:F:446:LEU:HD13	1:F:463:PHE:CE2	2.46	0.66
1:J:519:ASN:O	1:J:521:GLY:N	2.48	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:520:PRO:HG2	1:S:635:MET:HG2	1.78	0.66
1:V:286:ASN:HD21	1:V:618:ILE:H	1.42	0.66
1:X:270:ASP:O	1:1:472:SER:HB3	1.95	0.66
1:3:286:ASN:HD21	1:3:619:TRP:H	1.42	0.66
1:J:532:ASP:OD2	1:J:562:ASP:OD1	2.33	0.66
1:R:277:SER:HB2	1:7:438:LEU:HD11	1.76	0.66
1:K:690:GLU:OE2	1:V:299:ARG:NH1	161.19	0.66
1:B:262:SER:O	1:B:265:THR:HG22	1.96	0.66
1:J:262:SER:O	1:J:265:THR:HG22	1.95	0.66
1:F:698:GLU:OE1	1:F:733:THR:HG23	1.96	0.66
1:1:386:GLN:NE2	1:2:707:LYS:HD2	2.11	0.66
1:G:246:THR:HG23	1:G:678:GLN:HE21	1.67	0.66
1:H:698:GLU:OE1	1:H:733:THR:HG23	1.96	0.66
1:7:696:ASN:ND2	1:7:696:ASN:H	1.93	0.66
1:K:527:HIS:NE2	1:K:564:GLU:OE2	2.28	0.66
1:N:449:THR:HG1	1:5:501:PHE:HE2	257.04	0.66
1:E:486:GLN:HE22	1:E:539:GLY:N	1.99	0.66
1:M:486:GLN:HE22	1:M:539:GLY:N	1.93	0.66
1:0:450:GLN:HA	1:0:459:LYS:O	1.95	0.66
1:1:286:ASN:HD21	1:1:619:TRP:H	1.43	0.66
1:1:245:ARG:NH1	1:1:364:PRO:O	2.29	0.66
1:E:577:PHE:CE1	1:E:599:MET:HG2	2.30	0.66
1:R:446:LEU:HD13	1:R:463:PHE:CE2	2.31	0.66
1:Q:464:SER:HB3	1:U:551:SER:CA	117.66	0.66
1:J:224:ALA:H	1:N:408:ASN:ND2	179.36	0.66
1:E:517:ILE:HG22	1:F:473:VAL:HA	1.77	0.66
1:2:519:ASN:O	1:2:521:GLY:N	2.28	0.66
1:P:450:GLN:HA	1:P:459:LYS:O	2.05	0.66
1:J:609:ASP:OD2	1:J:630:HIS:HE1	1.79	0.66
1:Q:693:LYS:HG3	1:U:399:PHE:CZ	116.50	0.66
1:2:322:LYS:HE2	1:2:335:ASN:ND2	2.10	0.66
1:H:408:ASN:HD21	1:I:224:ALA:N	1.96	0.66
1:B:696:ASN:H	1:B:696:ASN:ND2	1.97	0.66
1:R:449:THR:HG21	1:Y:501:PHE:CD2	143.69	0.66
1:5:562:ASP:OD2	1:5:564:GLU:HG3	1.95	0.66
1:I:438:LEU:HD11	1:V:277:SER:HB2	124.17	0.66
1:4:441:GLN:OE1	1:4:475:PRO:HD2	1.96	0.66
1:L:527:HIS:CE1	1:L:564:GLU:CD	2.68	0.66
1:V:609:ASP:OD2	1:V:630:HIS:HE1	1.82	0.66
1:Y:267:ALA:O	1:Y:268:SER:HB3	2.06	0.66
1:1:322:LYS:HE2	1:1:335:ASN:ND2	2.10	0.66
1:I:512:ASN:HD21	1:J:529:ASP:H	41.31	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:615:GLN:HE22	1:W:726:PRO:HA	1.61	0.66
1:Y:615:GLN:HE22	1:Y:726:PRO:HA	1.60	0.66
1:C:408:ASN:HD21	1:D:224:ALA:N	1.90	0.65
1:4:408:ASN:ND2	1:5:224:ALA:H	1.91	0.65
1:1:408:ASN:ND2	1:2:224:ALA:H	1.92	0.65
1:1:486:GLN:HE22	1:1:538:SER:H	1.43	0.65
1:A:473:VAL:HA	1:Z:517:ILE:HG22	155.01	0.65
1:Q:441:GLN:OE1	1:Q:475:PRO:HD2	1.95	0.65
1:Q:520:PRO:HG2	1:Q:635:MET:HG2	1.76	0.65
1:B:397:GLU:HB2	1:C:367:PRO:HB2	1.79	0.65
1:L:512:ASN:HD21	1:T:529:ASP:H	106.02	0.65
1:X:267:ALA:O	1:X:268:SER:HB3	2.13	0.65
1:G:355:LEU:HD23	1:G:646:GLN:HG2	1.78	0.65
1:K:379:LEU:HD11	1:L:437:PRO:HB3	57.02	0.65
1:H:487:GLN:HB3	1:H:537:MET:HE2	1.83	0.65
1:D:464:SER:CB	1:Q:551:SER:HA	237.87	0.65
1:B:464:SER:HB3	1:P:551:SER:CA	212.72	0.65
1:P:501:PHE:HA	1:P:504:THR:HG22	1.88	0.65
1:T:520:PRO:HG2	1:T:635:MET:HG2	1.78	0.65
1:I:379:LEU:HD11	1:J:437:PRO:HB3	57.04	0.65
1:X:486:GLN:HE22	1:X:539:GLY:N	1.94	0.65
1:G:530:ASP:O	1:G:532:ASP:N	2.28	0.65
1:C:262:SER:O	1:C:265:THR:HG22	1.95	0.65
1:G:611:ASP:OD2	1:G:612:VAL:N	2.29	0.65
1:L:450:GLN:HA	1:L:459:LYS:O	1.97	0.65
1:1:555:LEU:HD23	1:1:555:LEU:O	1.96	0.65
1:E:621:LYS:HB2	1:E:643:PRO:HG3	1.81	0.65
1:D:500:ASN:HA	1:U:449:THR:CG2	211.99	0.65
1:X:501:PHE:HA	1:X:504:THR:HG22	1.78	0.65
1:C:696:ASN:HD22	1:C:696:ASN:H	1.45	0.65
1:F:501:PHE:HA	1:F:504:THR:HG22	1.78	0.65
1:U:520:PRO:HG2	1:U:635:MET:HG2	1.81	0.65
1:M:527:HIS:NE2	1:M:564:GLU:OE2	2.32	0.65
1:M:519:ASN:HB3	1:M:520:PRO:CD	2.35	0.65
1:Q:450:GLN:HA	1:Q:459:LYS:O	1.97	0.65
1:G:289:HIS:CE1	1:G:365:PRO:HG3	2.31	0.65
1:W:698:GLU:OE1	1:W:733:THR:HG23	2.00	0.65
1:A:398:TYR:OH	1:B:296:ASP:OD1	2.15	0.65
1:B:696:ASN:HD22	1:B:696:ASN:H	1.47	0.65
1:C:501:PHE:H	1:C:501:PHE:HD2	1.45	0.65
1:Z:270:ASP:O	1:O:472:SER:HB3	1.97	0.65
1:Z:517:ILE:HG22	1:O:473:VAL:HA	1.77	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:517:ILE:HG22	1:V:473:VAL:HA	124.50	0.65
1:4:508:LYS:HA	1:4:518:ILE:HG12	1.78	0.65
1:E:441:GLN:OE1	1:E:475:PRO:HD2	1.96	0.65
1:C:438:LEU:HD11	1:N:277:SER:HB2	123.38	0.65
1:O:519:ASN:HB3	1:O:520:PRO:CD	2.32	0.65
1:N:437:PRO:HB3	1:5:379:LEU:HD11	217.07	0.65
1:O:324:VAL:HB	1:O:333:ILE:HG23	1.78	0.65
1:E:450:GLN:HA	1:E:459:LYS:O	1.96	0.65
1:C:608:GLN:NE2	1:N:626:ASP:H	125.03	0.65
1:O:562:ASP:OD2	1:O:564:GLU:HG3	1.96	0.65
1:N:262:SER:O	1:N:265:THR:HG22	1.96	0.65
1:Z:289:HIS:CE1	1:Z:365:PRO:HG3	2.32	0.65
1:1:397:GLU:HB2	1:2:367:PRO:HB2	1.79	0.65
1:K:361:GLY:HA3	1:K:374:PRO:HG3	1.79	0.65
1:Y:408:ASN:ND2	1:Z:224:ALA:H	74.45	0.65
1:F:501:PHE:HD2	1:F:501:PHE:H	1.44	0.65
1:7:501:PHE:HD2	1:7:501:PHE:H	1.43	0.65
1:I:486:GLN:HE22	1:I:539:GLY:N	1.94	0.65
1:Z:361:GLY:HA3	1:Z:374:PRO:HG3	1.82	0.65
1:S:562:ASP:OD2	1:S:564:GLU:HG3	2.02	0.65
1:R:519:ASN:O	1:R:520:PRO:C	2.29	0.65
1:Q:527:HIS:NE2	1:Q:564:GLU:OE2	2.29	0.65
1:B:626:ASP:H	1:O:608:GLN:NE2	159.31	0.65
1:T:322:LYS:HE2	1:T:335:ASN:HD21	1.59	0.65
1:S:487:GLN:HB3	1:S:537:MET:HE2	1.79	0.65
1:A:289:HIS:CE1	1:A:365:PRO:HG3	2.31	0.65
1:D:246:THR:HG23	1:D:678:GLN:HE21	1.59	0.65
1:1:262:SER:O	1:1:265:THR:HG22	1.96	0.65
1:D:262:SER:O	1:D:265:THR:HG22	1.99	0.65
1:N:438:LEU:HD11	1:R:277:SER:HB2	187.95	0.65
1:B:626:ASP:H	1:P:608:GLN:NE2	173.56	0.65
1:R:321:VAL:HG11	1:R:339:SER:HB3	1.91	0.65
1:H:312:LEU:HD12	1:H:313:ASN:H	1.74	0.65
1:B:551:SER:HA	1:O:464:SER:CB	208.24	0.65
1:L:696:ASN:HD22	1:L:696:ASN:H	1.49	0.65
1:B:449:THR:HG1	1:P:501:PHE:HE2	219.31	0.65
1:D:438:LEU:HD11	1:Q:277:SER:HB2	214.50	0.65
1:O:245:ARG:NH1	1:O:364:PRO:O	2.28	0.65
1:F:519:ASN:HB3	1:F:520:PRO:CD	2.26	0.65
1:G:486:GLN:HE22	1:G:539:GLY:N	2.00	0.65
1:6:509:TYR:HD1	1:6:518:ILE:HD13	1.60	0.65
1:M:517:ILE:HG22	1:S:473:VAL:HA	196.92	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:477:ASN:O	1:G:634:LEU:HB2	61.96	0.65
1:H:262:SER:O	1:H:265:THR:HG22	1.96	0.65
1:H:658:PRO:HG2	1:I:250:PRO:HB3	1.88	0.65
1:P:297:TRP:NE1	1:P:301:ILE:HD11	2.11	0.65
1:Z:696:ASN:ND2	1:Z:696:ASN:H	1.99	0.65
1:O:501:PHE:H	1:O:501:PHE:HD2	1.45	0.65
1:1:520:PRO:HG2	1:1:635:MET:HG2	1.78	0.65
1:C:379:LEU:HD11	1:X:437:PRO:HB3	160.00	0.65
1:6:286:ASN:HD21	1:6:619:TRP:H	1.44	0.65
1:R:246:THR:HG23	1:R:678:GLN:NE2	2.12	0.65
1:N:322:LYS:HE2	1:N:335:ASN:HD21	1.60	0.65
1:A:399:PHE:CZ	1:W:693:LYS:HG3	2.32	0.65
1:2:562:ASP:OD2	1:2:564:GLU:HG3	1.96	0.65
1:E:551:SER:CA	1:5:464:SER:HB3	137.05	0.65
1:C:449:THR:HG22	1:N:502:THR:HG23	125.58	0.65
1:E:520:PRO:HG2	1:E:635:MET:HG2	1.79	0.65
1:O:527:HIS:NE2	1:O:564:GLU:OE2	2.29	0.65
1:Q:562:ASP:OD2	1:Q:564:GLU:HG3	1.97	0.65
1:O:450:GLN:HA	1:O:459:LYS:O	1.97	0.65
1:X:450:GLN:HA	1:X:459:LYS:O	2.01	0.65
1:H:450:GLN:HA	1:H:459:LYS:O	1.95	0.65
1:U:450:GLN:HA	1:U:459:LYS:O	1.97	0.65
1:I:562:ASP:OD2	1:I:564:GLU:HG3	1.97	0.65
1:H:399:PHE:CZ	1:W:693:LYS:HG3	110.81	0.65
1:D:246:THR:HG23	1:D:678:GLN:NE2	2.12	0.65
1:3:450:GLN:HA	1:3:459:LYS:O	1.95	0.65
1:G:450:GLN:HA	1:G:459:LYS:O	1.97	0.65
1:E:464:SER:HB3	1:N:551:SER:CA	234.44	0.65
1:6:696:ASN:ND2	1:6:696:ASN:H	1.93	0.65
1:B:487:GLN:HB3	1:B:537:MET:HE2	1.81	0.65
1:E:408:ASN:ND2	1:F:224:ALA:H	74.26	0.65
1:V:696:ASN:H	1:V:696:ASN:HD22	1.47	0.65
1:K:532:ASP:OD2	1:K:562:ASP:OD1	2.18	0.65
1:5:501:PHE:HD2	1:5:501:PHE:H	1.44	0.65
1:X:509:TYR:CD1	1:X:518:ILE:HD13	2.32	0.65
1:M:693:LYS:HG3	1:S:399:PHE:CE2	137.28	0.65
1:G:246:THR:HG23	1:G:678:GLN:NE2	2.25	0.65
1:C:512:ASN:HD21	1:X:529:ASP:H	177.94	0.65
1:5:542:ILE:HD12	1:5:560:ILE:HG13	1.78	0.65
1:E:698:GLU:OE1	1:E:733:THR:HG23	1.96	0.65
1:K:696:ASN:H	1:K:696:ASN:HD22	1.42	0.64
1:T:696:ASN:H	1:T:696:ASN:ND2	1.94	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:502:THR:HG23	1:X:449:THR:HG22	1.79	0.64
1:E:501:PHE:CD2	1:5:449:THR:HG21	143.58	0.64
1:J:441:GLN:OE1	1:J:475:PRO:HD2	1.99	0.64
1:W:530:ASP:O	1:W:532:ASP:N	2.30	0.64
1:L:512:ASN:HD21	1:U:529:ASP:H	189.42	0.64
1:I:457:GLN:HB3	1:1:498:ASN:HD21	1.62	0.64
1:A:562:ASP:OD2	1:A:564:GLU:HG3	1.96	0.64
1:X:246:THR:HG23	1:X:678:GLN:HE21	1.72	0.64
1:2:609:ASP:OD2	1:2:630:HIS:HE1	1.79	0.64
1:D:502:THR:HG23	1:H:449:THR:HG22	217.46	0.64
1:P:551:SER:CA	1:V:464:SER:HB3	209.65	0.64
1:C:696:ASN:ND2	1:C:696:ASN:H	1.96	0.64
1:I:501:PHE:HA	1:I:504:THR:HG22	1.83	0.64
1:M:408:ASN:HD21	1:N:224:ALA:N	1.99	0.64
1:I:437:PRO:HB3	1:1:379:LEU:HD11	1.78	0.64
1:D:286:ASN:HD21	1:D:618:ILE:H	1.43	0.64
1:L:519:ASN:HB3	1:L:520:PRO:CD	2.29	0.64
1:J:701:TYR:C	1:J:701:TYR:CD2	2.71	0.64
1:N:611:ASP:OD2	1:N:612:VAL:N	2.34	0.64
1:N:611:ASP:OD1	1:N:730:ARG:HG3	2.16	0.64
1:1:562:ASP:OD2	1:1:564:GLU:HG3	1.98	0.64
1:F:379:LEU:HD11	1:G:437:PRO:HB3	57.06	0.64
1:C:486:GLN:HE22	1:C:539:GLY:N	1.95	0.64
1:D:437:PRO:HB3	1:Q:379:LEU:HD11	221.48	0.64
1:M:532:ASP:OD1	1:M:564:GLU:OE2	2.23	0.64
1:0:517:ILE:HD11	1:0:538:SER:CB	2.27	0.64
1:F:442:TYR:CZ	1:4:287:ARG:HD2	125.78	0.64
1:D:562:ASP:OD2	1:D:564:GLU:HG3	1.97	0.64
1:X:322:LYS:O	1:X:673:GLN:HB2	1.97	0.64
1:M:450:GLN:HA	1:M:459:LYS:O	1.98	0.64
1:T:487:GLN:HB3	1:T:537:MET:HE2	1.83	0.64
1:D:698:GLU:OE1	1:D:733:THR:HG23	1.98	0.64
1:M:379:LEU:HD11	1:S:437:PRO:HB3	191.78	0.64
1:G:501:PHE:CD2	1:4:449:THR:HG21	2.32	0.64
1:J:449:THR:HG22	1:W:502:THR:HG23	1.79	0.64
1:V:487:GLN:HB3	1:V:537:MET:HE2	1.80	0.64
1:M:441:GLN:OE1	1:M:475:PRO:HD2	1.98	0.64
1:I:517:ILE:HG22	1:J:473:VAL:HA	75.10	0.64
1:6:487:GLN:HE21	1:6:488:ARG:H	1.45	0.64
1:M:502:THR:HG23	1:S:449:THR:HG22	208.18	0.64
1:O:277:SER:HB2	1:P:438:LEU:HD11	1.79	0.64
1:7:246:THR:HG23	1:7:678:GLN:NE2	2.12	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:487:GLN:HB3	1:F:537:MET:HE2	1.81	0.64
1:H:289:HIS:CE1	1:H:365:PRO:HG3	2.33	0.64
1:Q:555:LEU:HD23	1:Q:555:LEU:O	2.04	0.64
1:R:555:LEU:O	1:R:555:LEU:HD23	2.01	0.64
1:C:355:LEU:HD23	1:C:646:GLN:HG2	1.84	0.64
1:K:435:MET:HG2	1:K:474:GLN:OE1	2.00	0.64
1:H:502:THR:HG23	1:W:449:THR:HG22	142.92	0.64
1:1:501:PHE:CD2	1:1:501:PHE:N	2.66	0.64
1:O:501:PHE:HA	1:O:504:THR:HG22	1.78	0.64
1:L:562:ASP:OD2	1:L:564:GLU:HG3	1.97	0.64
1:G:517:ILE:HG22	1:4:473:VAL:HA	1.79	0.64
1:Y:438:LEU:HD11	1:7:277:SER:HB2	119.21	0.64
1:A:282:TYR:CE2	1:A:374:PRO:HB2	2.33	0.64
1:G:312:LEU:HD12	1:G:313:ASN:H	1.62	0.64
1:H:449:THR:HG22	1:3:502:THR:HG23	1.80	0.64
1:U:696:ASN:H	1:U:696:ASN:HD22	1.47	0.64
1:A:449:THR:HG22	1:J:502:THR:HG23	1.78	0.64
1:Y:397:GLU:HB2	1:Z:367:PRO:HB2	48.41	0.64
1:C:475:PRO:HA	1:N:519:ASN:HB3	114.19	0.64
1:L:517:ILE:HG22	1:U:473:VAL:HA	180.15	0.64
1:S:473:VAL:HA	1:6:517:ILE:HG22	1.78	0.64
1:Y:262:SER:O	1:Y:265:THR:HG22	1.99	0.64
1:S:361:GLY:HA3	1:S:374:PRO:HG3	1.83	0.64
1:H:566:ILE:HG13	1:H:570:ASN:HB2	1.79	0.64
1:L:435:MET:HG2	1:L:474:GLN:OE1	1.98	0.64
1:C:399:PHE:CZ	1:R:693:LYS:HG3	189.34	0.64
1:R:696:ASN:H	1:R:696:ASN:HD22	1.51	0.64
1:J:393:PHE:H	1:V:696:ASN:ND2	131.01	0.64
1:W:397:GLU:HB2	1:X:367:PRO:HB2	1.87	0.64
1:B:611:ASP:OD1	1:B:730:ARG:HG3	1.97	0.64
1:B:423:SER:CB	1:B:425:TYR:CE2	2.80	0.64
1:2:611:ASP:OD1	1:2:730:ARG:HG3	1.98	0.64
1:C:399:PHE:CZ	1:X:693:LYS:HG3	129.37	0.64
1:E:321:VAL:HG11	1:E:339:SER:HB3	1.79	0.64
1:H:501:PHE:CD2	1:W:449:THR:HG21	146.98	0.64
1:B:501:PHE:HE2	1:P:449:THR:HG1	219.23	0.64
1:5:527:HIS:CE1	1:5:564:GLU:CD	2.72	0.64
1:5:530:ASP:O	1:5:532:ASP:N	2.27	0.64
1:H:519:ASN:O	1:H:520:PRO:C	2.45	0.64
1:A:486:GLN:HE22	1:A:539:GLY:N	2.13	0.64
1:Y:611:ASP:OD2	1:Y:612:VAL:N	2.29	0.64
1:Z:611:ASP:OD2	1:Z:612:VAL:N	2.35	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:626:ASP:H	1:3:608:GLN:NE2	1.96	0.64
1:M:555:LEU:O	1:M:555:LEU:HD23	2.06	0.64
1:H:321:VAL:HG11	1:H:339:SER:HB3	1.81	0.64
1:C:464:SER:CB	1:N:551:SER:HA	117.02	0.64
1:B:449:THR:HG22	1:V:502:THR:HG23	1.80	0.64
1:3:696:ASN:HD22	1:3:696:ASN:H	1.44	0.64
1:J:247:TRP:HB2	1:J:373:ILE:HD11	1.80	0.64
1:Y:472:SER:HB3	1:7:270:ASP:O	133.58	0.64
1:M:529:ASP:H	1:T:512:ASN:HD21	131.30	0.64
1:F:701:TYR:C	1:F:701:TYR:CD2	2.77	0.64
1:D:399:PHE:CZ	1:H:693:LYS:HG3	138.16	0.64
1:Q:399:PHE:CZ	1:Z:693:LYS:HG3	120.89	0.64
1:6:312:LEU:HD12	1:6:313:ASN:H	1.63	0.64
1:K:464:SER:CB	1:T:551:SER:HA	2.23	0.64
1:S:464:SER:HB3	1:6:551:SER:CA	2.25	0.64
1:H:696:ASN:H	1:H:696:ASN:ND2	1.99	0.64
1:J:502:THR:HG23	1:V:449:THR:HG22	135.57	0.64
1:M:519:ASN:HB3	1:6:475:PRO:HA	162.43	0.64
1:S:262:SER:O	1:S:265:THR:HG22	1.98	0.64
1:P:530:ASP:O	1:P:532:ASP:N	2.30	0.64
1:A:361:GLY:HA3	1:A:374:PRO:HG3	1.86	0.64
1:M:615:GLN:HE22	1:M:726:PRO:HA	1.70	0.64
1:1:615:GLN:HE22	1:1:726:PRO:HA	1.61	0.64
1:4:361:GLY:HA3	1:4:374:PRO:HG3	1.80	0.64
1:Q:464:SER:CB	1:U:551:SER:HA	117.12	0.63
1:F:502:THR:HG23	1:G:449:THR:HG22	94.37	0.63
1:G:519:ASN:HB3	1:4:475:PRO:HA	1.79	0.63
1:S:324:VAL:HB	1:S:333:ILE:HG23	1.80	0.63
1:3:487:GLN:HB3	1:3:537:MET:HE2	1.80	0.63
1:3:698:GLU:OE1	1:3:733:THR:HG23	1.98	0.63
1:N:698:GLU:OE1	1:N:733:THR:HG23	2.02	0.63
1:Z:423:SER:HB2	1:Z:425:TYR:CE2	2.40	0.63
1:O:312:LEU:HD12	1:O:313:ASN:H	1.76	0.63
1:X:361:GLY:HA3	1:X:374:PRO:HG3	1.79	0.63
1:D:464:SER:HB3	1:Q:551:SER:CA	239.05	0.63
1:H:696:ASN:HD22	1:H:696:ASN:H	1.49	0.63
1:T:562:ASP:CG	1:T:564:GLU:HG3	2.17	0.63
1:Y:501:PHE:H	1:Z:449:THR:HG21	1.62	0.63
1:I:286:ASN:HD21	1:I:618:ILE:H	1.46	0.63
1:2:435:MET:HG2	1:2:474:GLN:OE1	1.97	0.63
1:A:508:LYS:HA	1:A:518:ILE:HG12	1.80	0.63
1:3:322:LYS:HE2	1:3:335:ASN:HD21	1.64	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:7:555:LEU:HD23	1:7:555:LEU:O	1.98	0.63
1:G:419:VAL:HG11	1:G:640:LEU:CD2	2.36	0.63
1:Z:624:HIS:O	1:0:427:HIS:HE1	1.81	0.63
1:Y:551:SER:HA	1:Z:464:SER:CB	2.28	0.63
1:4:501:PHE:HD2	1:4:501:PHE:H	1.45	0.63
1:A:438:LEU:HD11	1:Z:277:SER:HB2	168.00	0.63
1:W:517:ILE:HD11	1:W:538:SER:CB	2.44	0.63
1:A:297:TRP:CD1	1:A:301:ILE:HD11	2.33	0.63
1:F:367:PRO:HB2	1:J:397:GLU:HB2	1.79	0.63
1:M:520:PRO:HG2	1:M:635:MET:HG2	1.80	0.63
1:Y:435:MET:HG2	1:Y:474:GLN:OE1	1.98	0.63
1:W:366:PHE:CE2	1:W:368:ALA:HB3	2.34	0.63
1:L:487:GLN:HB3	1:L:537:MET:HE2	1.79	0.63
1:U:355:LEU:HD23	1:U:646:GLN:HG2	1.79	0.63
1:Y:246:THR:HG23	1:Y:678:GLN:HE21	1.64	0.63
1:N:464:SER:CB	1:R:551:SER:HA	199.21	0.63
1:I:502:THR:O	1:I:506:ALA:HB2	1.98	0.63
1:6:487:GLN:HB3	1:6:537:MET:HE2	1.80	0.63
1:D:486:GLN:HE22	1:D:539:GLY:N	1.96	0.63
1:S:486:GLN:HE22	1:S:539:GLY:N	2.13	0.63
1:A:397:GLU:HB2	1:B:367:PRO:HB2	1.81	0.63
1:D:379:LEU:HD11	1:U:437:PRO:HB3	191.87	0.63
1:A:693:LYS:HG3	1:Z:399:PHE:CE2	148.05	0.63
1:2:532:ASP:OD2	1:2:562:ASP:OD1	2.16	0.63
1:N:267:ALA:O	1:N:268:SER:HB3	1.98	0.63
1:E:399:PHE:CZ	1:F:693:LYS:HG3	2.33	0.63
1:D:551:SER:HA	1:H:464:SER:CB	207.38	0.63
1:Q:501:PHE:HA	1:Q:504:THR:HG22	1.78	0.63
1:Z:501:PHE:HA	1:Z:504:THR:HG22	1.81	0.63
1:U:408:ASN:HD21	1:V:224:ALA:N	2.03	0.63
1:J:520:PRO:HG2	1:J:635:MET:HG2	1.81	0.63
1:T:519:ASN:HB3	1:T:520:PRO:CD	2.31	0.63
1:Z:435:MET:HG2	1:Z:474:GLN:OE1	2.08	0.63
1:H:517:ILE:HG22	1:W:473:VAL:HA	135.65	0.63
1:D:529:ASP:H	1:W:512:ASN:HD21	158.01	0.63
1:F:287:ARG:HD2	1:G:442:TYR:CZ	84.44	0.63
1:2:277:SER:HB2	1:3:438:LEU:HD11	1.79	0.63
1:U:577:PHE:CE1	1:U:599:MET:HG2	2.32	0.63
1:7:302:ASN:HD21	1:7:701:TYR:H	1.45	0.63
1:A:501:PHE:H	1:W:449:THR:HG21	1.63	0.63
1:A:464:SER:HB3	1:Z:551:SER:CA	165.67	0.63
1:T:532:ASP:OD1	1:T:564:GLU:OE2	2.17	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:501:PHE:H	1:E:501:PHE:HD2	1.47	0.63
1:E:501:PHE:H	1:F:449:THR:HG21	1.64	0.63
1:5:527:HIS:NE2	1:5:564:GLU:OE2	2.27	0.63
1:Z:486:GLN:HE22	1:Z:539:GLY:N	2.01	0.63
1:X:509:TYR:HD1	1:X:518:ILE:CD1	2.12	0.63
1:M:609:ASP:OD2	1:M:630:HIS:HE1	1.87	0.63
1:W:611:ASP:OD2	1:W:612:VAL:N	2.30	0.63
1:N:693:LYS:HG3	1:R:399:PHE:CZ	164.07	0.63
1:I:698:GLU:OE1	1:I:733:THR:HG23	2.00	0.63
1:D:440:ASP:HB2	1:W:360:GLN:NE2	170.11	0.63
1:C:464:SER:HB3	1:N:551:SER:CA	117.54	0.63
1:A:501:PHE:H	1:Q:449:THR:HG21	219.08	0.63
1:A:551:SER:HA	1:W:464:SER:CB	2.28	0.63
1:M:696:ASN:H	1:M:696:ASN:ND2	1.96	0.63
1:E:449:THR:HG22	1:G:502:THR:HG23	64.73	0.63
1:J:487:GLN:HB3	1:J:537:MET:HE2	1.81	0.63
1:D:519:ASN:HB3	1:D:520:PRO:CD	2.29	0.63
1:W:520:PRO:HG2	1:W:635:MET:HG2	1.86	0.63
1:L:486:GLN:HE22	1:L:539:GLY:N	2.12	0.63
1:S:486:GLN:HE22	1:S:538:SER:H	1.47	0.63
1:O:517:ILE:HG22	1:P:473:VAL:HA	1.80	0.63
1:X:508:LYS:HA	1:X:518:ILE:HG12	1.80	0.63
1:X:517:ILE:HD11	1:X:538:SER:CB	2.29	0.63
1:4:450:GLN:HA	1:4:459:LYS:O	1.99	0.63
1:3:530:ASP:O	1:3:532:ASP:N	2.30	0.63
1:J:611:ASP:OD2	1:J:612:VAL:N	2.38	0.63
1:A:267:ALA:O	1:A:268:SER:HB3	1.99	0.63
1:5:615:GLN:HE22	1:5:726:PRO:HA	1.62	0.63
1:I:446:LEU:HD13	1:I:463:PHE:CE2	2.53	0.63
1:5:361:GLY:HA3	1:5:374:PRO:HG3	1.80	0.63
1:I:267:ALA:O	1:I:268:SER:HB3	1.97	0.63
1:W:289:HIS:CE1	1:W:365:PRO:HG3	2.40	0.63
1:L:551:SER:HA	1:U:464:SER:CB	175.03	0.63
1:W:696:ASN:H	1:W:696:ASN:ND2	2.00	0.63
1:V:435:MET:HG2	1:V:474:GLN:OE1	1.98	0.63
1:Q:517:ILE:HG22	1:Z:473:VAL:HA	124.50	0.63
1:W:519:ASN:HB3	1:W:520:PRO:CD	2.29	0.63
1:O:520:PRO:HG2	1:O:635:MET:HG2	1.80	0.63
1:S:611:ASP:OD1	1:S:730:ARG:HG3	2.26	0.63
1:M:693:LYS:HG3	1:T:399:PHE:CZ	123.13	0.63
1:F:566:ILE:HG13	1:F:570:ASN:HB2	1.81	0.63
1:M:262:SER:O	1:M:265:THR:HG22	1.99	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:551:SER:CA	1:W:464:SER:HB3	2.27	0.63
1:H:502:THR:HG23	1:2:449:THR:HG22	1.80	0.63
1:G:519:ASN:O	1:G:520:PRO:C	2.45	0.63
1:A:512:ASN:HD21	1:W:529:ASP:H	1.47	0.63
1:L:267:ALA:O	1:L:268:SER:HB3	1.99	0.63
1:C:246:THR:HG23	1:C:678:GLN:HE21	1.70	0.63
1:P:555:LEU:HD23	1:P:555:LEU:O	2.12	0.63
1:K:464:SER:HB3	1:T:551:SER:CA	2.22	0.62
1:J:464:SER:HB3	1:W:551:SER:CA	2.26	0.62
1:F:393:PHE:N	1:G:696:ASN:HD21	32.71	0.62
1:Z:502:THR:HG23	1:0:449:THR:HG22	1.80	0.62
1:K:502:THR:HG23	1:L:449:THR:HG22	94.32	0.62
1:7:530:ASP:O	1:7:532:ASP:N	2.31	0.62
1:P:517:ILE:HG22	1:V:473:VAL:HA	196.07	0.62
1:Y:486:GLN:HE22	1:Y:538:SER:H	1.47	0.62
1:B:520:PRO:HG2	1:B:635:MET:HG2	1.89	0.62
1:3:486:GLN:HE22	1:3:539:GLY:N	1.96	0.62
1:C:473:VAL:HA	1:N:517:ILE:CG2	122.76	0.62
1:6:286:ASN:HD21	1:6:618:ILE:H	1.45	0.62
1:I:693:LYS:HG3	1:1:399:PHE:CE2	2.33	0.62
1:5:267:ALA:O	1:5:268:SER:HB3	1.98	0.62
1:U:265:THR:HG23	1:U:267:ALA:H	1.71	0.62
1:1:282:TYR:CE2	1:1:374:PRO:HB2	2.34	0.62
1:I:262:SER:O	1:I:265:THR:HG22	1.99	0.62
1:K:611:ASP:OD2	1:K:612:VAL:N	2.30	0.62
1:R:621:LYS:HB2	1:R:643:PRO:HG3	1.85	0.62
1:R:262:SER:O	1:R:265:THR:HG22	2.00	0.62
1:G:423:SER:CB	1:G:425:TYR:CE2	2.82	0.62
1:2:267:ALA:O	1:2:268:SER:HB3	1.98	0.62
1:B:690:GLU:OE2	1:Q:299:ARG:NH1	167.03	0.62
1:N:696:ASN:ND2	1:R:393:PHE:H	182.58	0.62
1:1:501:PHE:HA	1:1:504:THR:HG22	1.80	0.62
1:B:437:PRO:HB3	1:P:379:LEU:HD11	194.50	0.62
1:Q:435:MET:HG2	1:Q:474:GLN:OE1	2.04	0.62
1:F:247:TRP:HB2	1:F:373:ILE:HD11	1.78	0.62
1:O:562:ASP:OD2	1:O:564:GLU:HG3	1.99	0.62
1:B:297:TRP:CD1	1:B:301:ILE:HD11	2.34	0.62
1:P:399:PHE:CZ	1:V:693:LYS:HG3	152.04	0.62
1:M:297:TRP:NE1	1:M:301:ILE:HD11	2.14	0.62
1:6:361:GLY:HA3	1:6:374:PRO:HG3	1.81	0.62
1:E:725:ARG:HB2	1:E:726:PRO:HD2	1.82	0.62
1:A:441:GLN:OE1	1:A:475:PRO:HD2	2.01	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:519:ASN:O	1:J:520:PRO:C	2.46	0.62
1:P:509:TYR:HD1	1:P:518:ILE:CD1	2.16	0.62
1:D:520:PRO:HG2	1:D:635:MET:HG2	1.86	0.62
1:Q:519:ASN:HB3	1:Q:520:PRO:CD	2.29	0.62
1:A:367:PRO:HB2	1:Z:397:GLU:HB2	172.33	0.62
1:P:367:PRO:HB2	1:T:397:GLU:HB2	1.81	0.62
1:N:286:ASN:HD21	1:N:618:ILE:H	1.48	0.62
1:F:397:GLU:HB2	1:G:367:PRO:HB2	1.89	0.62
1:P:611:ASP:OD2	1:P:612:VAL:N	2.32	0.62
1:P:609:ASP:OD2	1:P:630:HIS:HE1	1.92	0.62
1:P:577:PHE:CE1	1:P:599:MET:HG2	2.43	0.62
1:G:611:ASP:OD1	1:G:730:ARG:HG3	2.13	0.62
1:R:608:GLN:NE2	1:Y:626:ASP:H	117.58	0.62
1:X:423:SER:HB2	1:X:425:TYR:CE2	2.48	0.62
1:O:611:ASP:OD1	1:O:730:ARG:HG3	1.99	0.62
1:2:245:ARG:NH1	1:2:364:PRO:O	2.32	0.62
1:V:446:LEU:HD13	1:V:463:PHE:CE2	2.34	0.62
1:D:287:ARG:HD2	1:H:442:TYR:CZ	183.22	0.62
1:S:621:LYS:HB2	1:S:643:PRO:HG3	2.01	0.62
1:A:696:ASN:H	1:A:696:ASN:ND2	2.03	0.62
1:B:696:ASN:ND2	1:P:393:PHE:H	184.62	0.62
1:C:486:GLN:HE22	1:C:538:SER:H	1.70	0.62
1:Y:508:LYS:HA	1:Y:518:ILE:HG12	1.81	0.62
1:O:437:PRO:HB3	1:X:379:LEU:HD11	158.44	0.62
1:O:508:LYS:HA	1:O:518:ILE:HG12	1.88	0.62
1:C:532:ASP:OD2	1:C:562:ASP:OD1	2.24	0.62
1:M:438:LEU:HD11	1:S:277:SER:HB2	170.41	0.62
1:Y:725:ARG:HB2	1:Y:726:PRO:HD2	1.81	0.62
1:O:611:ASP:OD2	1:O:612:VAL:N	2.38	0.62
1:R:611:ASP:OD1	1:R:730:ARG:HG3	1.98	0.62
1:E:611:ASP:OD2	1:E:612:VAL:N	2.36	0.62
1:Z:698:GLU:OE1	1:Z:733:THR:HG23	2.11	0.62
1:H:551:SER:HA	1:2:464:SER:CB	2.26	0.62
1:L:501:PHE:CD2	1:L:501:PHE:N	2.67	0.62
1:G:502:THR:O	1:G:506:ALA:HB2	2.14	0.62
1:H:519:ASN:CB	1:W:475:PRO:HA	129.93	0.62
1:M:501:PHE:HA	1:M:504:THR:HG22	1.89	0.62
1:M:532:ASP:OD2	1:M:562:ASP:OD1	2.19	0.62
1:E:517:ILE:HG22	1:5:473:VAL:HA	132.98	0.62
1:X:519:ASN:HB3	1:X:520:PRO:CD	2.29	0.62
1:C:530:ASP:O	1:C:532:ASP:N	2.31	0.62
1:B:247:TRP:HB3	1:B:371:PHE:CE1	2.34	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:267:ALA:O	1:J:268:SER:HB3	2.04	0.62
1:S:555:LEU:O	1:S:555:LEU:HD23	2.10	0.62
1:O:487:GLN:HB3	1:O:537:MET:HE2	1.97	0.62
1:A:696:ASN:H	1:A:696:ASN:HD22	1.57	0.62
1:P:520:PRO:HG2	1:P:635:MET:HG2	1.99	0.62
1:D:397:GLU:HB2	1:Z:367:PRO:HB2	173.16	0.62
1:G:297:TRP:CD1	1:G:301:ILE:HD11	2.34	0.62
1:4:562:ASP:OD2	1:4:564:GLU:HG3	2.00	0.62
1:F:517:ILE:CG2	1:G:473:VAL:HA	75.85	0.62
1:N:438:LEU:HD11	1:5:277:SER:HB2	215.22	0.62
1:A:277:SER:HB2	1:Q:438:LEU:HD11	191.86	0.62
1:X:312:LEU:HD12	1:X:313:ASN:H	1.64	0.62
1:2:487:GLN:HB3	1:2:537:MET:HE2	1.81	0.62
1:F:536:PRO:HG3	1:F:573:ALA:HB3	1.81	0.62
1:C:361:GLY:HA3	1:C:374:PRO:HG3	1.82	0.62
1:L:502:THR:HG23	1:U:449:THR:HG22	191.80	0.62
1:2:502:THR:HG23	1:3:449:THR:HG22	1.81	0.62
1:6:408:ASN:ND2	1:7:224:ALA:H	1.94	0.62
1:M:435:MET:HG2	1:M:474:GLN:OE1	2.07	0.62
1:I:517:ILE:HD11	1:I:538:SER:CB	2.30	0.62
1:K:519:ASN:O	1:K:520:PRO:C	2.38	0.62
1:6:486:GLN:HE22	1:6:539:GLY:N	1.97	0.62
1:5:450:GLN:HA	1:5:459:LYS:O	2.00	0.62
1:M:379:LEU:HD11	1:6:437:PRO:HB3	163.06	0.62
1:2:262:SER:O	1:2:265:THR:HG22	1.99	0.62
1:X:555:LEU:O	1:X:555:LEU:HD23	2.10	0.62
1:N:312:LEU:HD12	1:N:313:ASN:H	1.66	0.62
1:2:446:LEU:HD13	1:2:463:PHE:CE2	2.35	0.62
1:M:464:SER:HB3	1:S:551:SER:CA	208.53	0.62
1:E:551:SER:HA	1:F:464:SER:CB	2.29	0.62
1:N:519:ASN:HB3	1:N:520:PRO:CD	2.30	0.62
1:V:611:ASP:OD2	1:V:612:VAL:N	2.33	0.62
1:H:267:ALA:O	1:H:268:SER:HB3	2.03	0.62
1:N:419:VAL:HG11	1:N:640:LEU:CD2	2.30	0.62
1:C:312:LEU:HD12	1:C:313:ASN:H	1.63	0.62
1:Z:408:ASN:HD21	1:O:224:ALA:N	74.32	0.62
1:B:472:SER:HB3	1:V:270:ASP:O	2.00	0.62
1:T:441:GLN:OE1	1:T:475:PRO:HD2	1.99	0.62
1:C:277:SER:HB2	1:R:438:LEU:HD11	214.77	0.62
1:Q:532:ASP:OD1	1:Q:564:GLU:OE2	2.18	0.62
1:H:532:ASP:OD2	1:H:562:ASP:OD1	2.24	0.62
1:X:267:ALA:O	1:X:268:SER:CB	2.61	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:609:ASP:OD2	1:Q:630:HIS:HE1	1.84	0.62
1:I:621:LYS:HB2	1:I:643:PRO:HG3	1.82	0.62
1:M:698:GLU:OE1	1:M:733:THR:HG23	2.07	0.62
1:I:551:SER:HA	1:J:464:SER:CB	91.22	0.62
1:Y:464:SER:CB	1:7:551:SER:HA	141.29	0.62
1:B:585:GLN:H	1:P:487:GLN:HE22	211.78	0.62
1:C:267:ALA:O	1:C:268:SER:CB	2.48	0.62
1:G:626:ASP:H	1:4:608:GLN:NE2	1.98	0.62
1:O:530:ASP:O	1:O:532:ASP:N	2.33	0.62
1:I:265:THR:HG23	1:I:267:ALA:H	1.65	0.62
1:E:615:GLN:HE22	1:E:726:PRO:HA	1.65	0.62
1:R:512:ASN:HD21	1:7:529:ASP:H	1.48	0.62
1:X:419:VAL:HG11	1:X:640:LEU:CD2	2.30	0.62
1:D:696:ASN:ND2	1:D:696:ASN:H	2.01	0.61
1:Z:441:GLN:OE1	1:Z:475:PRO:HD2	2.00	0.61
1:F:520:PRO:HG2	1:F:635:MET:HG2	1.82	0.61
1:K:519:ASN:HB3	1:K:520:PRO:CD	2.30	0.61
1:O:519:ASN:O	1:O:521:GLY:N	2.33	0.61
1:Q:282:TYR:CE2	1:Q:374:PRO:HB2	2.40	0.61
1:M:690:GLU:OE2	1:U:299:ARG:NH1	159.20	0.61
1:O:698:GLU:OE1	1:O:733:THR:HG23	1.99	0.61
1:A:648:LEU:N	1:A:648:LEU:HD22	2.29	0.61
1:H:555:LEU:O	1:H:555:LEU:HD23	2.03	0.61
1:X:502:THR:HG23	1:1:449:THR:HG22	1.82	0.61
1:N:501:PHE:HA	1:N:504:THR:HG22	1.81	0.61
1:A:449:THR:CG2	1:J:500:ASN:HA	2.28	0.61
1:N:562:ASP:OD2	1:N:564:GLU:HG3	2.01	0.61
1:N:527:HIS:NE2	1:N:564:GLU:OE2	2.31	0.61
1:I:473:VAL:HA	1:1:517:ILE:CG2	2.29	0.61
1:A:437:PRO:HB3	1:J:379:LEU:HD11	1.82	0.61
1:Z:519:ASN:HB3	1:Z:520:PRO:CD	2.31	0.61
1:R:473:VAL:HA	1:Y:517:ILE:CG2	132.33	0.61
1:B:527:HIS:CE1	1:B:564:GLU:CD	2.86	0.61
1:F:562:ASP:CG	1:F:564:GLU:HG3	2.33	0.61
1:Y:527:HIS:CE1	1:Y:564:GLU:CD	2.73	0.61
1:R:701:TYR:CD2	1:R:701:TYR:C	2.81	0.61
1:2:517:ILE:HG22	1:3:473:VAL:HA	1.80	0.61
1:K:529:ASP:H	1:U:512:ASN:HD21	195.44	0.61
1:M:399:PHE:CZ	1:S:693:LYS:HG3	164.00	0.61
1:Q:446:LEU:HD13	1:Q:463:PHE:CE2	2.34	0.61
1:G:609:ASP:OD2	1:G:630:HIS:HE1	1.82	0.61
1:L:262:SER:O	1:L:265:THR:HG22	2.04	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:299:ARG:NH1	1:V:690:GLU:OE2	145.13	0.61
1:I:529:ASP:H	1:1:512:ASN:HD21	1.47	0.61
1:S:700:GLN:HA	1:S:700:GLN:HE21	1.65	0.61
1:F:621:LYS:HB2	1:F:643:PRO:HG3	1.81	0.61
1:P:615:GLN:HE22	1:P:726:PRO:HA	1.64	0.61
1:T:501:PHE:CD2	1:T:501:PHE:N	2.68	0.61
1:G:696:ASN:ND2	1:G:696:ASN:H	2.06	0.61
1:V:562:ASP:OD2	1:V:564:GLU:HG3	2.00	0.61
1:Y:486:GLN:HE22	1:Y:539:GLY:N	2.23	0.61
1:M:509:TYR:HD1	1:M:518:ILE:CD1	2.14	0.61
1:R:517:ILE:HG22	1:7:473:VAL:HA	1.81	0.61
1:A:512:ASN:HD21	1:Q:529:ASP:H	204.30	0.61
1:F:611:ASP:OD2	1:F:612:VAL:N	2.33	0.61
1:M:267:ALA:O	1:M:268:SER:HB3	2.02	0.61
1:I:246:THR:HG23	1:I:678:GLN:HE21	1.71	0.61
1:K:399:PHE:CZ	1:L:693:LYS:HG3	38.17	0.61
1:V:312:LEU:HD12	1:V:313:ASN:H	1.64	0.61
1:3:611:ASP:OD1	1:3:730:ARG:HG3	2.00	0.61
1:D:551:SER:CA	1:H:464:SER:HB3	208.66	0.61
1:S:551:SER:HA	1:T:464:SER:CB	91.15	0.61
1:W:405:ARG:H	1:W:408:ASN:ND2	2.09	0.61
1:2:500:ASN:HA	1:3:449:THR:CG2	2.30	0.61
1:J:379:LEU:HD11	1:V:437:PRO:HB3	135.43	0.61
1:O:286:ASN:HD21	1:O:618:ILE:H	1.55	0.61
1:G:725:ARG:HB2	1:G:726:PRO:HD2	1.81	0.61
1:O:509:TYR:CD1	1:O:518:ILE:HD13	2.41	0.61
1:L:286:ASN:HD21	1:L:618:ILE:H	1.45	0.61
1:R:359:HIS:CE1	1:7:436:ASN:H	2.18	0.61
1:F:267:ALA:O	1:F:268:SER:HB3	2.02	0.61
1:B:267:ALA:O	1:B:268:SER:HB3	2.01	0.61
1:Q:611:ASP:OD2	1:Q:612:VAL:N	2.35	0.61
1:B:615:GLN:HE22	1:B:726:PRO:HA	1.65	0.61
1:0:366:PHE:CE2	1:0:368:ALA:HB3	2.34	0.61
1:V:698:GLU:OE1	1:V:733:THR:HG23	1.99	0.61
1:L:361:GLY:HA3	1:L:374:PRO:HG3	1.82	0.61
1:Q:551:SER:HA	1:Z:464:SER:CB	145.62	0.61
1:I:508:LYS:HA	1:I:518:ILE:HG12	1.82	0.61
1:E:532:ASP:OD1	1:E:564:GLU:OE2	2.38	0.61
1:W:532:ASP:OD2	1:W:562:ASP:OD1	2.32	0.61
1:D:626:ASP:H	1:H:608:GLN:NE2	150.62	0.61
1:K:608:GLN:NE2	1:T:626:ASP:H	1.99	0.61
1:L:626:ASP:H	1:U:608:GLN:NE2	164.45	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:725:ARG:HB2	1:C:726:PRO:HD2	1.93	0.61
1:W:246:THR:HG23	1:W:678:GLN:HE21	1.64	0.61
1:Q:246:THR:HG23	1:Q:678:GLN:HE21	1.79	0.61
1:B:398:TYR:OH	1:C:296:ASP:OD1	2.27	0.61
1:B:246:THR:HG23	1:B:678:GLN:HE21	1.65	0.61
1:K:277:SER:HB2	1:L:438:LEU:HD11	61.94	0.61
1:X:698:GLU:OE1	1:X:733:THR:HG23	2.00	0.61
1:U:501:PHE:CD2	1:U:501:PHE:N	2.69	0.61
1:C:551:SER:CA	1:X:464:SER:HB3	180.93	0.61
1:Y:487:GLN:HB3	1:Y:537:MET:HE2	1.82	0.61
1:H:519:ASN:HB3	1:H:520:PRO:CD	2.37	0.61
1:E:366:PHE:CE2	1:E:368:ALA:HB3	2.36	0.61
1:6:441:GLN:OE1	1:6:475:PRO:HD2	2.00	0.61
1:M:519:ASN:O	1:M:520:PRO:C	2.37	0.61
1:O:486:GLN:HE22	1:O:538:SER:H	1.48	0.61
1:C:553:THR:HG23	1:C:557:ASN:CB	2.30	0.61
1:H:609:ASP:OD2	1:H:630:HIS:HE1	1.84	0.61
1:A:386:GLN:NE2	1:B:707:LYS:HD2	2.15	0.61
1:6:267:ALA:O	1:6:268:SER:HB3	2.00	0.61
1:5:289:HIS:CE1	1:5:365:PRO:HG3	2.35	0.61
1:T:361:GLY:HA3	1:T:374:PRO:HG3	1.82	0.61
1:D:621:LYS:HB2	1:D:643:PRO:HG3	1.81	0.61
1:X:399:PHE:CZ	1:1:693:LYS:HG3	2.35	0.61
1:A:621:LYS:HB2	1:A:643:PRO:HG3	1.81	0.61
1:H:551:SER:CA	1:2:464:SER:HB3	2.26	0.61
1:N:464:SER:HB3	1:R:551:SER:CA	200.44	0.61
1:E:696:ASN:H	1:E:696:ASN:ND2	2.03	0.61
1:0:501:PHE:CD2	1:0:501:PHE:N	2.69	0.61
1:N:449:THR:HG22	1:R:502:THR:HG23	208.16	0.61
1:1:519:ASN:HB3	1:1:520:PRO:CD	2.31	0.61
1:R:441:GLN:OE1	1:R:475:PRO:HD2	2.00	0.61
1:D:397:GLU:HB2	1:E:367:PRO:HB2	1.83	0.61
1:Y:366:PHE:CE2	1:Y:368:ALA:HB3	2.35	0.61
1:G:520:PRO:HG2	1:G:635:MET:HG2	1.86	0.61
1:O:438:LEU:HD11	1:X:277:SER:HB2	148.32	0.61
1:S:609:ASP:OD2	1:S:630:HIS:HE1	1.84	0.61
1:R:529:ASP:H	1:Y:512:ASN:HD21	138.26	0.61
1:D:658:PRO:HG2	1:E:250:PRO:HB3	1.83	0.61
1:6:621:LYS:HB2	1:6:643:PRO:HG3	1.80	0.61
1:I:464:SER:CB	1:V:551:SER:HA	133.77	0.61
1:T:527:HIS:CE1	1:T:564:GLU:CD	2.74	0.61
1:V:405:ARG:H	1:V:408:ASN:ND2	1.94	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:277:SER:HB2	1:J:438:LEU:HD11	61.88	0.61
1:N:397:GLU:HB2	1:O:367:PRO:HB2	1.83	0.61
1:T:397:GLU:HB2	1:U:367:PRO:HB2	158.47	0.61
1:G:519:ASN:HB3	1:G:520:PRO:CD	2.36	0.61
1:K:270:ASP:O	1:L:472:SER:HB3	63.38	0.61
1:F:286:ASN:HD21	1:F:618:ILE:H	1.60	0.61
1:U:508:LYS:HA	1:U:518:ILE:HG12	1.81	0.61
1:H:286:ASN:HD21	1:H:618:ILE:H	1.49	0.61
1:B:693:LYS:HG3	1:P:399:PHE:CZ	167.86	0.61
1:Q:608:GLN:NE2	1:U:626:ASP:H	125.05	0.61
1:O:527:HIS:NE2	1:O:564:GLU:OE2	2.32	0.61
1:C:360:GLN:NE2	1:X:440:ASP:HB2	160.91	0.61
1:M:361:GLY:HA3	1:M:374:PRO:HG3	1.84	0.61
1:N:615:GLN:HE22	1:N:726:PRO:HA	1.71	0.61
1:I:247:TRP:HB2	1:I:373:ILE:HD11	1.82	0.61
1:D:435:MET:HG2	1:D:474:GLN:OE1	2.00	0.61
1:3:501:PHE:CD2	1:3:501:PHE:N	2.68	0.61
1:M:464:SER:CB	1:S:551:SER:HA	207.30	0.61
1:M:519:ASN:O	1:M:521:GLY:N	2.39	0.61
1:D:626:ASP:H	1:U:608:GLN:NE2	173.21	0.61
1:C:690:GLU:OE2	1:P:299:ARG:NH1	167.04	0.61
1:V:267:ALA:O	1:V:268:SER:HB3	2.01	0.61
1:S:501:PHE:N	1:S:501:PHE:CD2	2.69	0.61
1:D:696:ASN:H	1:D:696:ASN:HD22	1.52	0.61
1:C:501:PHE:N	1:C:501:PHE:CD2	2.74	0.61
1:P:487:GLN:HB3	1:P:537:MET:HE2	1.87	0.61
1:A:408:ASN:ND2	1:B:224:ALA:H	1.93	0.61
1:P:519:ASN:HB3	1:P:520:PRO:CD	2.31	0.61
1:Y:517:ILE:CG2	1:Z:473:VAL:HA	2.31	0.61
1:G:441:GLN:OE1	1:G:475:PRO:HD2	2.03	0.61
1:6:519:ASN:HB3	1:6:520:PRO:CD	2.30	0.61
1:K:508:LYS:HA	1:K:518:ILE:HG12	1.85	0.61
1:K:486:GLN:HE22	1:K:539:GLY:N	2.01	0.61
1:S:508:LYS:HA	1:S:518:ILE:HG12	1.81	0.61
1:L:517:ILE:CG2	1:T:473:VAL:HA	71.30	0.61
1:Y:527:HIS:NE2	1:Y:564:GLU:OE2	2.31	0.61
1:Q:532:ASP:OD2	1:Q:562:ASP:OD1	2.19	0.61
1:D:379:LEU:HD11	1:H:437:PRO:HB3	173.07	0.61
1:U:246:THR:HG23	1:U:678:GLN:HE21	1.65	0.61
1:S:312:LEU:HD12	1:S:313:ASN:H	1.70	0.61
1:4:312:LEU:HD12	1:4:313:ASN:H	1.66	0.61
1:G:501:PHE:HA	1:G:504:THR:HG22	1.82	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:449:THR:HG21	1:V:501:PHE:H	1.66	0.60
1:F:449:THR:HG21	1:4:501:PHE:H	133.93	0.60
1:4:486:GLN:HE22	1:4:539:GLY:N	1.99	0.60
1:N:519:ASN:O	1:N:520:PRO:C	2.44	0.60
1:S:701:TYR:C	1:S:701:TYR:CD2	2.74	0.60
1:S:366:PHE:CE2	1:S:368:ALA:HB3	2.42	0.60
1:M:611:ASP:OD2	1:M:612:VAL:N	2.36	0.60
1:H:437:PRO:HB3	1:3:379:LEU:HD11	1.83	0.60
1:I:322:LYS:O	1:I:673:GLN:HB2	2.00	0.60
1:1:312:LEU:HD12	1:1:313:ASN:N	2.16	0.60
1:I:512:ASN:HD21	1:X:529:ASP:H	1.49	0.60
1:Y:512:ASN:HD21	1:Z:529:ASP:H	1.49	0.60
1:1:532:ASP:OD2	1:1:562:ASP:OD1	2.17	0.60
1:C:282:TYR:CE2	1:C:374:PRO:HB2	2.49	0.60
1:H:446:LEU:HD13	1:H:463:PHE:CE2	2.47	0.60
1:M:246:THR:HG23	1:M:678:GLN:HE21	1.65	0.60
1:P:246:THR:HG23	1:P:678:GLN:HE21	1.65	0.60
1:X:355:LEU:HD23	1:X:646:GLN:HG2	1.87	0.60
1:D:501:PHE:HA	1:D:504:THR:HG22	1.88	0.60
1:G:696:ASN:HD22	1:G:696:ASN:H	1.49	0.60
1:O:441:GLN:HE22	1:O:474:GLN:HB3	1.66	0.60
1:U:519:ASN:HB3	1:U:520:PRO:CD	2.31	0.60
1:C:517:ILE:HG22	1:R:473:VAL:HA	234.88	0.60
1:L:527:HIS:CE1	1:L:532:ASP:OD1	2.58	0.60
1:G:509:TYR:HD1	1:G:518:ILE:CD1	2.14	0.60
1:Y:498:ASN:HD21	1:Z:457:GLN:HB3	1.66	0.60
1:T:450:GLN:HA	1:T:459:LYS:O	2.02	0.60
1:K:423:SER:HB2	1:K:425:TYR:CE2	2.36	0.60
1:E:493:LYS:HE3	1:5:460:ASP:HA	142.85	0.60
1:P:267:ALA:O	1:P:268:SER:HB3	2.08	0.60
1:2:312:LEU:HD12	1:2:313:ASN:H	1.66	0.60
1:J:566:ILE:HG13	1:J:570:ASN:HB2	1.83	0.60
1:O:502:THR:HG23	1:P:449:THR:HG22	1.83	0.60
1:5:562:ASP:CG	1:5:564:GLU:HG3	2.20	0.60
1:H:520:PRO:HG2	1:H:635:MET:HG2	1.83	0.60
1:B:532:ASP:OD2	1:B:562:ASP:OD1	2.24	0.60
1:F:527:HIS:NE2	1:F:564:GLU:OE2	2.55	0.60
1:H:324:VAL:HB	1:H:333:ILE:HG23	1.82	0.60
1:H:277:SER:HB2	1:2:438:LEU:HD11	1.82	0.60
1:A:379:LEU:HD11	1:Q:437:PRO:HB3	194.50	0.60
1:U:527:HIS:NE2	1:U:564:GLU:OE2	2.33	0.60
1:2:267:ALA:O	1:2:268:SER:CB	2.49	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:419:VAL:HG11	1:W:640:LEU:CD2	2.30	0.60
1:O:698:GLU:OE1	1:O:733:THR:HG23	2.01	0.60
1:B:551:SER:CA	1:O:464:SER:HB3	209.68	0.60
1:A:501:PHE:CD2	1:A:501:PHE:N	2.69	0.60
1:M:696:ASN:H	1:M:696:ASN:HD22	1.47	0.60
1:Q:487:GLN:HB3	1:Q:537:MET:HE2	1.83	0.60
1:W:501:PHE:CD2	1:W:501:PHE:N	2.74	0.60
1:P:501:PHE:N	1:P:501:PHE:CD2	2.74	0.60
1:N:562:ASP:CG	1:N:564:GLU:HG3	2.27	0.60
1:S:519:ASN:HB3	1:S:520:PRO:CD	2.37	0.60
1:Y:473:VAL:HA	1:O:517:ILE:CG2	2.31	0.60
1:B:486:GLN:HE22	1:B:538:SER:H	1.47	0.60
1:O:527:HIS:CE1	1:O:564:GLU:CD	2.75	0.60
1:5:519:ASN:O	1:5:520:PRO:C	2.36	0.60
1:J:399:PHE:CZ	1:V:693:LYS:HG3	120.76	0.60
1:Z:267:ALA:O	1:Z:268:SER:CB	2.50	0.60
1:J:267:ALA:O	1:J:268:SER:CB	2.55	0.60
1:O:693:LYS:HG3	1:X:399:PHE:CZ	131.48	0.60
1:C:321:VAL:HG11	1:C:339:SER:HB3	1.83	0.60
1:U:555:LEU:O	1:U:555:LEU:HD23	2.01	0.60
1:F:512:ASN:HD21	1:G:529:ASP:H	41.23	0.60
1:Y:696:ASN:HD21	1:O:393:PHE:N	1.85	0.60
1:D:585:GLN:H	1:W:487:GLN:HE22	164.54	0.60
1:Y:501:PHE:HA	1:Y:504:THR:HG22	1.85	0.60
1:A:520:PRO:HG2	1:A:635:MET:HG2	1.83	0.60
1:D:517:ILE:CG2	1:U:473:VAL:HA	196.74	0.60
1:B:517:ILE:CG2	1:P:473:VAL:HA	201.96	0.60
1:W:527:HIS:CE1	1:W:564:GLU:CD	2.75	0.60
1:7:286:ASN:HD21	1:7:618:ILE:H	1.48	0.60
1:U:322:LYS:O	1:U:673:GLN:HB2	2.01	0.60
1:U:658:PRO:HG2	1:V:250:PRO:HB3	1.97	0.60
1:A:701:TYR:C	1:A:701:TYR:CD2	2.73	0.60
1:H:277:SER:HB2	1:W:438:LEU:HD11	124.31	0.60
1:C:609:ASP:OD2	1:C:630:HIS:HE1	1.82	0.60
1:F:301:ILE:HG12	1:F:729:THR:HA	1.84	0.60
1:M:277:SER:HB2	1:6:438:LEU:HD11	153.55	0.60
1:R:267:ALA:O	1:R:268:SER:HB3	2.03	0.60
1:R:487:GLN:HB3	1:R:537:MET:HE2	1.82	0.60
1:6:555:LEU:HD23	1:6:555:LEU:O	2.02	0.60
1:H:501:PHE:N	1:H:501:PHE:CD2	2.66	0.60
1:S:464:SER:CB	1:6:551:SER:HA	2.24	0.60
1:I:449:THR:HG22	1:1:502:THR:HG23	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:501:PHE:H	1:0:449:THR:HG21	1.66	0.60
1:F:449:THR:HG22	1:4:502:THR:HG23	135.59	0.60
1:V:519:ASN:HB3	1:V:520:PRO:CD	2.30	0.60
1:P:286:ASN:HD21	1:P:618:ILE:H	1.48	0.60
1:I:287:ARG:HD2	1:X:442:TYR:CZ	2.37	0.60
1:A:270:ASP:O	1:Q:472:SER:HB3	205.35	0.60
1:E:562:ASP:CG	1:E:564:GLU:HG3	2.23	0.60
1:K:520:PRO:HG2	1:K:635:MET:HG2	1.83	0.60
1:Z:450:GLN:HA	1:Z:459:LYS:O	2.04	0.60
1:Y:282:TYR:CE2	1:Y:374:PRO:HB2	2.36	0.60
1:F:609:ASP:O	1:F:730:ARG:NH2	2.33	0.60
1:A:399:PHE:CE2	1:W:693:LYS:HG3	2.37	0.60
1:K:446:LEU:HD13	1:K:463:PHE:CE2	2.37	0.60
1:1:322:LYS:HE2	1:1:335:ASN:HD21	1.66	0.60
1:3:611:ASP:OD2	1:3:612:VAL:N	2.35	0.60
1:I:321:VAL:HG11	1:I:339:SER:HB3	1.83	0.60
1:O:321:VAL:HG11	1:O:339:SER:HB3	1.88	0.60
1:7:621:LYS:HB2	1:7:643:PRO:HG3	1.84	0.60
1:6:444:TYR:CZ	1:6:465:ARG:HB3	2.37	0.60
1:0:355:LEU:HD23	1:0:646:GLN:HG2	1.83	0.60
1:T:312:LEU:HD12	1:T:313:ASN:H	1.66	0.60
1:B:312:LEU:HD12	1:B:313:ASN:H	1.72	0.60
1:G:324:VAL:HB	1:G:333:ILE:HG23	1.83	0.60
1:F:615:GLN:HE22	1:F:726:PRO:HA	1.70	0.60
1:3:501:PHE:HA	1:3:504:THR:HG22	1.83	0.60
1:S:551:SER:CA	1:T:464:SER:HB3	91.94	0.60
1:E:449:THR:HG21	1:G:501:PHE:H	65.49	0.60
1:R:527:HIS:NE2	1:R:564:GLU:OE2	2.37	0.60
1:Z:277:SER:HB2	1:0:438:LEU:HD11	1.84	0.60
1:H:519:ASN:O	1:H:521:GLY:N	2.42	0.60
1:J:473:VAL:HA	1:W:517:ILE:CG2	2.31	0.60
1:0:508:LYS:HA	1:0:518:ILE:HG12	1.84	0.60
1:B:562:ASP:CG	1:B:564:GLU:HG3	2.21	0.60
1:Y:562:ASP:CG	1:Y:564:GLU:HG3	2.28	0.60
1:J:250:PRO:HB3	1:N:658:PRO:HG2	217.42	0.60
1:J:527:HIS:CE1	1:J:532:ASP:OD1	2.78	0.60
1:I:609:ASP:OD2	1:I:630:HIS:HE1	1.97	0.60
1:1:530:ASP:O	1:1:532:ASP:N	2.35	0.60
1:Y:246:THR:HG23	1:Y:678:GLN:NE2	2.20	0.60
1:F:690:GLU:OE2	1:5:299:ARG:NH1	114.95	0.60
1:V:355:LEU:HD23	1:V:646:GLN:HG2	1.88	0.60
1:I:551:SER:CA	1:J:464:SER:HB3	92.03	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:501:PHE:N	1:B:501:PHE:CD2	2.70	0.60
1:O:405:ARG:H	1:O:408:ASN:ND2	1.96	0.60
1:Q:501:PHE:CD2	1:Q:501:PHE:N	2.68	0.60
1:R:527:HIS:CE1	1:R:564:GLU:CD	2.78	0.60
1:P:486:GLN:HE22	1:P:539:GLY:N	2.12	0.60
1:O:509:TYR:HD1	1:O:518:ILE:CD1	2.12	0.60
1:W:527:HIS:NE2	1:W:564:GLU:OE2	2.28	0.60
1:O:322:LYS:O	1:O:673:GLN:HB2	2.02	0.60
1:B:611:ASP:HB2	1:B:730:ARG:NH1	2.17	0.60
1:D:611:ASP:OD1	1:D:730:ARG:HG3	2.00	0.60
1:D:399:PHE:CZ	1:U:693:LYS:HG3	164.15	0.60
1:5:487:GLN:HB3	1:5:537:MET:HE2	1.83	0.60
1:6:615:GLN:HE22	1:6:726:PRO:HA	1.66	0.60
1:1:302:ASN:HD21	1:1:701:TYR:H	1.47	0.60
1:J:355:LEU:HD23	1:J:646:GLN:HG2	1.92	0.60
1:N:555:LEU:HD23	1:N:555:LEU:O	2.02	0.60
1:V:289:HIS:CE1	1:V:365:PRO:HG3	2.36	0.60
1:U:312:LEU:HD12	1:U:313:ASN:H	1.74	0.60
1:U:501:PHE:HA	1:U:504:THR:HG22	1.83	0.60
1:B:501:PHE:H	1:P:449:THR:HG21	218.99	0.60
1:T:532:ASP:OD2	1:T:562:ASP:OD1	2.24	0.60
1:A:517:ILE:CG2	1:W:473:VAL:HA	2.31	0.60
1:O:519:ASN:O	1:O:520:PRO:C	2.33	0.60
1:R:519:ASN:O	1:R:521:GLY:N	2.35	0.60
1:M:608:GLN:NE2	1:S:626:ASP:H	150.52	0.60
1:B:609:ASP:O	1:B:730:ARG:NH2	2.33	0.60
1:Z:267:ALA:O	1:Z:268:SER:HB3	2.03	0.60
1:1:562:ASP:OD1	1:1:564:GLU:OE2	2.20	0.60
1:M:277:SER:HB2	1:S:438:LEU:HD11	187.88	0.60
1:G:621:LYS:HB2	1:G:643:PRO:HG3	1.83	0.60
1:Y:698:GLU:OE1	1:Y:733:THR:HG23	2.04	0.60
1:T:408:ASN:ND2	1:U:224:ALA:H	151.82	0.60
1:A:475:PRO:HA	1:J:519:ASN:CB	2.32	0.60
1:V:508:LYS:HA	1:V:518:ILE:HG12	1.83	0.60
1:Z:287:ARG:HD2	1:O:442:TYR:CZ	2.36	0.60
1:I:519:ASN:O	1:I:521:GLY:N	2.43	0.60
1:J:432:ASP:O	1:J:435:MET:HE3	2.16	0.60
1:B:701:TYR:CD2	1:B:701:TYR:C	2.74	0.60
1:V:324:VAL:HB	1:V:333:ILE:HG23	1.84	0.60
1:6:532:ASP:OD1	1:6:564:GLU:OE2	2.20	0.60
1:5:486:GLN:HE22	1:5:538:SER:H	1.50	0.60
1:I:450:GLN:HA	1:I:459:LYS:O	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:3:562:ASP:OD2	1:3:564:GLU:HG3	2.02	0.60
1:O:267:ALA:O	1:O:268:SER:HB3	2.08	0.60
1:C:701:TYR:C	1:C:701:TYR:CD2	2.74	0.60
1:H:426:ALA:O	1:H:733:THR:HA	2.15	0.60
1:E:299:ARG:NH1	1:J:690:GLU:OE2	111.08	0.60
1:Y:555:LEU:O	1:Y:555:LEU:HD23	2.02	0.60
1:R:361:GLY:HA3	1:R:374:PRO:HG3	1.83	0.60
1:S:696:ASN:ND2	1:S:696:ASN:H	1.99	0.59
1:1:508:LYS:HA	1:1:518:ILE:HG12	1.84	0.59
1:M:527:HIS:CE1	1:M:564:GLU:CD	2.76	0.59
1:F:527:HIS:CE1	1:F:532:ASP:OD1	2.66	0.59
1:K:509:TYR:HD1	1:K:518:ILE:CD1	2.13	0.59
1:X:286:ASN:HD21	1:X:618:ILE:H	1.58	0.59
1:Y:250:PRO:HB3	1:2:658:PRO:HG2	118.67	0.59
1:K:423:SER:CB	1:K:425:TYR:CE2	2.85	0.59
1:H:609:ASP:O	1:H:730:ARG:NH2	2.32	0.59
1:F:626:ASP:H	1:G:608:GLN:NE2	43.84	0.59
1:J:555:LEU:HD23	1:J:555:LEU:O	2.01	0.59
1:P:566:ILE:HG13	1:P:570:ASN:HB2	2.04	0.59
1:M:321:VAL:HG11	1:M:339:SER:HB3	1.96	0.59
1:U:321:VAL:HG11	1:U:339:SER:HB3	1.84	0.59
1:N:527:HIS:CE1	1:N:532:ASP:OD1	2.60	0.59
1:Z:508:LYS:HA	1:Z:518:ILE:HG12	1.84	0.59
1:M:562:ASP:CG	1:M:564:GLU:HG3	2.28	0.59
1:E:519:ASN:O	1:E:520:PRO:C	2.42	0.59
1:1:441:GLN:OE1	1:1:475:PRO:HD2	2.02	0.59
1:N:519:ASN:O	1:N:521:GLY:N	2.41	0.59
1:O:379:LEU:HD11	1:P:437:PRO:HB3	1.84	0.59
1:K:608:GLN:NE2	1:U:626:ASP:H	166.56	0.59
1:W:282:TYR:CE2	1:W:374:PRO:HB2	2.43	0.59
1:L:282:TYR:CE2	1:L:374:PRO:HB2	2.42	0.59
1:W:312:LEU:HD12	1:W:313:ASN:H	1.79	0.59
1:3:555:LEU:O	1:3:555:LEU:HD23	2.02	0.59
1:I:551:SER:CA	1:X:464:SER:HB3	2.26	0.59
1:J:696:ASN:HD21	1:W:393:PHE:N	1.86	0.59
1:E:551:SER:CA	1:F:464:SER:HB3	2.30	0.59
1:N:449:THR:HG22	1:5:502:THR:HG23	251.69	0.59
1:R:435:MET:HG2	1:R:474:GLN:OE1	2.08	0.59
1:K:517:ILE:HD11	1:K:538:SER:CB	2.32	0.59
1:N:486:GLN:HE22	1:N:538:SER:H	1.61	0.59
1:Z:562:ASP:OD2	1:Z:564:GLU:HG3	2.02	0.59
1:A:286:ASN:HD21	1:A:618:ILE:H	1.51	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:530:ASP:O	1:6:532:ASP:N	2.34	0.59
1:B:498:ASN:HD21	1:P:457:GLN:HB3	234.55	0.59
1:P:626:ASP:H	1:V:608:GLN:NE2	159.34	0.59
1:G:265:THR:HG23	1:G:267:ALA:H	1.67	0.59
1:J:607:TRP:HD1	1:J:608:GLN:O	1.85	0.59
1:O:609:ASP:OD2	1:O:630:HIS:HE1	1.85	0.59
1:L:555:LEU:O	1:L:555:LEU:HD23	2.03	0.59
1:H:398:TYR:OH	1:I:296:ASP:OD1	2.20	0.59
1:L:502:THR:HG23	1:T:449:THR:HG22	64.74	0.59
1:F:464:SER:HB3	1:4:551:SER:CA	147.41	0.59
1:G:501:PHE:CD2	1:G:501:PHE:N	2.69	0.59
1:V:501:PHE:CD2	1:V:501:PHE:N	2.76	0.59
1:K:527:HIS:CE1	1:K:564:GLU:CD	2.76	0.59
1:R:501:PHE:CD2	1:R:501:PHE:N	2.70	0.59
1:J:508:LYS:HA	1:J:518:ILE:HG12	1.85	0.59
1:C:289:HIS:CE1	1:C:365:PRO:HG3	2.45	0.59
1:F:361:GLY:HA3	1:F:374:PRO:HG3	1.84	0.59
1:3:509:TYR:CD1	1:3:518:ILE:HD13	2.34	0.59
1:E:527:HIS:NE2	1:E:564:GLU:OE2	2.41	0.59
1:4:564:GLU:O	1:4:567:LYS:HG3	2.02	0.59
1:Y:609:ASP:O	1:Y:730:ARG:NH2	2.44	0.59
1:K:438:LEU:HD11	1:T:277:SER:HB2	1.84	0.59
1:L:379:LEU:HD11	1:U:437:PRO:HB3	165.97	0.59
1:D:312:LEU:HD12	1:D:313:ASN:N	2.17	0.59
1:V:267:ALA:O	1:V:268:SER:CB	2.50	0.59
1:E:399:PHE:CE2	1:F:693:LYS:HG3	2.38	0.59
1:L:267:ALA:O	1:L:268:SER:CB	2.50	0.59
1:B:289:HIS:CE1	1:B:365:PRO:HG3	2.37	0.59
1:N:289:HIS:CE1	1:N:365:PRO:HG3	2.37	0.59
1:E:512:ASN:HD21	1:F:529:ASP:H	1.51	0.59
1:O:578:GLY:O	1:O:596:VAL:HG12	2.02	0.59
1:Z:321:VAL:HG11	1:Z:339:SER:HB3	1.89	0.59
1:G:501:PHE:H	1:4:449:THR:HG21	1.66	0.59
1:A:449:THR:CG2	1:Z:500:ASN:HA	162.84	0.59
1:K:532:ASP:OD1	1:K:564:GLU:OE2	2.33	0.59
1:K:501:PHE:H	1:L:449:THR:HG21	95.80	0.59
1:P:519:ASN:O	1:P:520:PRO:C	2.40	0.59
1:V:441:GLN:OE1	1:V:475:PRO:HD2	2.05	0.59
1:Q:277:SER:HB2	1:Z:438:LEU:HD11	144.72	0.59
1:B:517:ILE:CG2	1:O:473:VAL:HA	195.94	0.59
1:B:508:LYS:HA	1:B:518:ILE:HG12	1.86	0.59
1:U:286:ASN:HD21	1:U:618:ILE:H	1.48	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:297:TRP:CD1	1:Z:301:ILE:HD11	2.46	0.59
1:5:519:ASN:HB3	1:5:520:PRO:CD	2.32	0.59
1:V:395:CYS:SG	1:V:397:GLU:HG2	2.43	0.59
1:S:277:SER:HB2	1:T:438:LEU:HD11	61.92	0.59
1:A:693:LYS:HG3	1:J:399:PHE:CZ	2.37	0.59
1:I:460:ASP:HA	1:1:493:LYS:HE3	1.84	0.59
1:6:450:GLN:HA	1:6:459:LYS:O	2.01	0.59
1:K:267:ALA:O	1:K:268:SER:HB3	2.07	0.59
1:P:322:LYS:O	1:P:673:GLN:HB2	2.20	0.59
1:H:626:ASP:H	1:2:608:GLN:HE22	1.50	0.59
1:O:299:ARG:NH1	1:T:690:GLU:OE2	110.92	0.59
1:L:609:ASP:OD2	1:L:630:HIS:HE1	1.85	0.59
1:2:322:LYS:HE2	1:2:335:ASN:HD21	1.65	0.59
1:N:608:GLN:NE2	1:5:626:ASP:H	186.74	0.59
1:U:480:PRO:O	1:U:605:MET:HG2	2.03	0.59
1:U:615:GLN:HE22	1:U:726:PRO:HA	1.71	0.59
1:N:238:ARG:HG2	1:N:238:ARG:HH11	1.66	0.59
1:J:289:HIS:CE1	1:J:365:PRO:HG3	2.37	0.59
1:5:246:THR:HG23	1:5:678:GLN:HE21	1.67	0.59
1:4:621:LYS:HB2	1:4:643:PRO:HG3	1.85	0.59
1:B:321:VAL:HG11	1:B:339:SER:HB3	1.85	0.59
1:S:696:ASN:HD22	1:S:696:ASN:H	1.51	0.59
1:Y:449:THR:HG21	1:0:501:PHE:H	1.68	0.59
1:J:270:ASP:O	1:V:472:SER:HB3	128.70	0.59
1:L:519:ASN:O	1:L:521:GLY:N	2.36	0.59
1:Y:473:VAL:HA	1:7:517:ILE:CG2	133.70	0.59
1:S:527:HIS:CE1	1:S:564:GLU:CD	2.79	0.59
1:C:437:PRO:HB3	1:N:379:LEU:HD11	125.93	0.59
1:B:693:LYS:HG3	1:V:399:PHE:CZ	2.38	0.59
1:U:562:ASP:CG	1:U:564:GLU:HG3	2.26	0.59
1:1:607:TRP:HD1	1:1:608:GLN:O	1.84	0.59
1:0:532:ASP:OD2	1:0:562:ASP:OD1	2.21	0.59
1:0:532:ASP:OD1	1:0:564:GLU:OE2	2.19	0.59
1:1:611:ASP:OD1	1:1:730:ARG:HG3	2.03	0.59
1:R:611:ASP:OD2	1:R:612:VAL:N	2.36	0.59
1:K:555:LEU:HD23	1:K:555:LEU:O	2.12	0.59
1:Y:464:SER:HB3	1:0:551:SER:CA	2.30	0.59
1:W:501:PHE:HA	1:W:504:THR:HG22	1.85	0.59
1:7:562:ASP:OD2	1:7:564:GLU:HG3	2.02	0.59
1:3:519:ASN:HB3	1:3:520:PRO:CD	2.33	0.59
1:A:519:ASN:O	1:A:520:PRO:C	2.43	0.59
1:X:435:MET:HG2	1:X:474:GLN:OE1	2.08	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:519:ASN:O	1:Y:521:GLY:N	2.36	0.59
1:C:562:ASP:CG	1:C:564:GLU:HG3	2.30	0.59
1:R:519:ASN:HB3	1:R:520:PRO:CD	2.32	0.59
1:I:527:HIS:NE2	1:I:564:GLU:OE2	2.32	0.59
1:L:312:LEU:HD12	1:L:313:ASN:N	2.22	0.59
1:U:611:ASP:OD2	1:U:612:VAL:N	2.35	0.59
1:X:246:THR:HG23	1:X:678:GLN:NE2	2.31	0.59
1:3:398:TYR:OH	1:4:296:ASP:OD1	2.20	0.59
1:O:289:HIS:CE1	1:O:365:PRO:HG3	2.42	0.59
1:Y:621:LYS:HB2	1:Y:643:PRO:HG3	1.85	0.59
1:O:419:VAL:HG11	1:O:640:LEU:CD2	2.32	0.59
1:L:551:SER:HA	1:T:464:SER:CB	65.02	0.59
1:M:393:PHE:N	1:6:696:ASN:HD21	165.32	0.59
1:4:501:PHE:HA	1:4:504:THR:HG22	1.84	0.59
1:N:449:THR:HG21	1:R:501:PHE:H	211.05	0.59
1:A:437:PRO:HB3	1:Z:379:LEU:HD11	164.37	0.59
1:V:520:PRO:HG2	1:V:635:MET:HG2	1.87	0.59
1:C:519:ASN:HB3	1:C:520:PRO:CD	2.35	0.59
1:J:475:PRO:HA	1:W:519:ASN:CB	2.32	0.59
1:B:519:ASN:O	1:B:521:GLY:N	2.43	0.59
1:2:297:TRP:CD1	1:2:301:ILE:HD11	2.38	0.59
1:5:508:LYS:HA	1:5:518:ILE:HG12	1.85	0.59
1:P:397:GLU:HB2	1:Q:367:PRO:HB2	1.92	0.59
1:A:423:SER:CB	1:A:425:TYR:CE2	2.86	0.59
1:N:322:LYS:O	1:N:673:GLN:HB2	2.03	0.59
1:U:621:LYS:HB2	1:U:643:PRO:HG3	1.85	0.59
1:A:312:LEU:HD12	1:A:313:ASN:H	1.66	0.59
1:A:615:GLN:HE22	1:A:726:PRO:HA	1.79	0.59
1:T:252:TYR:CZ	1:T:375:GLN:HB2	2.37	0.59
1:H:449:THR:HG21	1:3:501:PHE:H	1.66	0.59
1:X:500:ASN:HA	1:1:449:THR:CG2	2.31	0.59
1:J:408:ASN:HD21	1:K:224:ALA:N	180.81	0.59
1:I:449:THR:HG21	1:V:501:PHE:H	145.33	0.59
1:Z:509:TYR:HD1	1:Z:518:ILE:CD1	2.15	0.59
1:Q:519:ASN:O	1:Q:520:PRO:C	2.36	0.59
1:Q:519:ASN:O	1:Q:521:GLY:N	2.35	0.59
1:G:397:GLU:HB2	1:H:367:PRO:HB2	1.89	0.59
1:H:322:LYS:HB2	1:H:674:TYR:CE1	2.38	0.59
1:D:512:ASN:HD21	1:H:529:ASP:H	169.96	0.59
1:I:725:ARG:HB2	1:I:726:PRO:HD2	1.87	0.59
1:S:282:TYR:CE2	1:S:374:PRO:HB2	2.49	0.59
1:Y:626:ASP:H	1:Z:608:GLN:NE2	2.01	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:529:ASP:H	1:4:512:ASN:HD21	118.91	0.59
1:0:615:GLN:HE22	1:0:726:PRO:HA	1.68	0.59
1:S:501:PHE:H	1:T:449:THR:HG21	95.86	0.59
1:I:464:SER:HB3	1:V:551:SER:CA	134.22	0.59
1:Y:696:ASN:H	1:Y:696:ASN:ND2	1.99	0.59
1:Q:501:PHE:H	1:Z:449:THR:HG21	133.95	0.59
1:G:408:ASN:ND2	1:H:224:ALA:H	1.99	0.59
1:I:519:ASN:HB3	1:I:520:PRO:CD	2.31	0.59
1:E:517:ILE:HD11	1:E:538:SER:CB	2.33	0.59
1:0:509:TYR:CD1	1:0:518:ILE:HD13	2.32	0.59
1:E:287:ARG:HD2	1:5:442:TYR:CZ	115.96	0.59
1:E:289:HIS:CE1	1:E:365:PRO:HG3	2.38	0.59
1:D:508:LYS:HA	1:D:518:ILE:HG12	1.85	0.59
1:B:512:ASN:HD21	1:O:529:ASP:H	184.27	0.59
1:E:286:ASN:HD21	1:E:618:ILE:H	1.55	0.59
1:N:435:MET:HG2	1:N:474:GLN:OE1	2.02	0.59
1:U:397:GLU:HB2	1:V:367:PRO:HB2	1.96	0.59
1:S:379:LEU:HD11	1:T:437:PRO:HB3	56.98	0.59
1:G:701:TYR:C	1:G:701:TYR:CD2	2.77	0.59
1:3:532:ASP:OD2	1:3:562:ASP:OD1	2.21	0.59
1:X:626:ASP:H	1:1:608:GLN:NE2	2.01	0.59
1:G:267:ALA:O	1:G:268:SER:CB	2.61	0.59
1:Z:423:SER:CB	1:Z:425:TYR:CE2	2.87	0.59
1:A:446:LEU:HD13	1:A:463:PHE:CE2	2.38	0.59
1:7:321:VAL:HG11	1:7:339:SER:HB3	1.84	0.59
1:Q:419:VAL:HG11	1:Q:640:LEU:CD2	2.34	0.59
1:K:621:LYS:HB2	1:K:643:PRO:HG3	1.85	0.59
1:S:419:VAL:HG11	1:S:640:LEU:CD2	2.33	0.59
1:P:502:THR:HG23	1:V:449:THR:HG22	216.80	0.58
1:J:509:TYR:HD1	1:J:518:ILE:CD1	2.15	0.58
1:3:520:PRO:HG2	1:3:635:MET:HG2	1.84	0.58
1:C:277:SER:HB2	1:X:438:LEU:HD11	149.47	0.58
1:I:287:ARG:HD2	1:J:442:TYR:CZ	84.54	0.58
1:D:472:SER:HB3	1:Q:270:ASP:O	237.80	0.58
1:6:501:PHE:HD2	1:6:501:PHE:N	2.00	0.58
1:E:397:GLU:HB2	1:F:367:PRO:HB2	48.23	0.58
1:C:441:GLN:OE1	1:C:475:PRO:HD2	2.02	0.58
1:O:435:MET:HG2	1:O:474:GLN:OE1	2.02	0.58
1:6:508:LYS:HA	1:6:518:ILE:HG12	1.85	0.58
1:J:450:GLN:HA	1:J:459:LYS:O	2.02	0.58
1:3:527:HIS:NE2	1:3:564:GLU:OE2	2.34	0.58
1:A:423:SER:HB2	1:A:425:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:423:SER:CB	1:O:425:TYR:CE2	2.92	0.58
1:Y:399:PHE:CZ	1:Z:693:LYS:HG3	2.38	0.58
1:L:299:ARG:NH1	1:L:690:GLU:OE2	17.74	0.58
1:M:621:LYS:HB2	1:M:643:PRO:HG3	1.85	0.58
1:L:501:PHE:H	1:T:449:THR:HG21	65.42	0.58
1:H:501:PHE:H	1:W:449:THR:HG21	145.62	0.58
1:D:408:ASN:HD21	1:E:224:ALA:N	1.95	0.58
1:C:502:THR:HG23	1:R:449:THR:HG22	253.21	0.58
1:5:527:HIS:NE2	1:5:562:ASP:OD1	2.33	0.58
1:U:519:ASN:O	1:U:520:PRO:C	2.35	0.58
1:M:501:PHE:N	1:M:501:PHE:CD2	2.75	0.58
1:Z:366:PHE:CE2	1:Z:368:ALA:HB3	2.51	0.58
1:4:509:TYR:HD1	1:4:518:ILE:CD1	2.13	0.58
1:G:322:LYS:HB2	1:G:674:TYR:CE1	2.39	0.58
1:D:532:ASP:OD2	1:D:562:ASP:OD1	2.20	0.58
1:M:529:ASP:H	1:S:512:ASN:HD21	169.93	0.58
1:H:564:GLU:O	1:H:567:LYS:HG3	2.03	0.58
1:B:609:ASP:OD2	1:B:630:HIS:HE1	1.86	0.58
1:T:701:TYR:C	1:T:701:TYR:CD2	2.79	0.58
1:D:609:ASP:OD2	1:D:630:HIS:HE1	1.95	0.58
1:Q:398:TYR:OH	1:R:296:ASP:OD1	2.20	0.58
1:O:355:LEU:HD23	1:O:646:GLN:HG2	1.92	0.58
1:2:379:LEU:HD11	1:3:437:PRO:HB3	1.84	0.58
1:Z:419:VAL:HG11	1:Z:640:LEU:CD2	2.32	0.58
1:H:246:THR:HG23	1:H:678:GLN:HE21	1.68	0.58
1:A:502:THR:HG23	1:W:449:THR:HG22	1.84	0.58
1:D:449:THR:HG22	1:Q:502:THR:HG23	253.04	0.58
1:C:501:PHE:H	1:X:449:THR:HG21	202.35	0.58
1:P:508:LYS:HA	1:P:518:ILE:HG12	1.84	0.58
1:U:519:ASN:O	1:U:521:GLY:N	2.37	0.58
1:C:520:PRO:HG2	1:C:635:MET:HG2	1.85	0.58
1:V:542:ILE:CD1	1:V:560:ILE:HG13	2.51	0.58
1:S:532:ASP:OD2	1:S:562:ASP:OD1	2.20	0.58
1:S:527:HIS:NE2	1:S:564:GLU:OE2	2.35	0.58
1:F:437:PRO:HB3	1:4:379:LEU:HD11	135.41	0.58
1:X:553:THR:HG23	1:X:557:ASN:CB	2.33	0.58
1:K:473:VAL:HA	1:U:517:ILE:CG2	201.67	0.58
1:W:423:SER:CB	1:W:425:TYR:CE2	2.86	0.58
1:V:265:THR:HG23	1:V:267:ALA:H	1.68	0.58
1:Y:267:ALA:O	1:Y:268:SER:CB	2.62	0.58
1:1:666:LYS:NZ	1:2:719:GLY:O	2.36	0.58
1:E:609:ASP:OD2	1:E:630:HIS:HE1	1.86	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:296:ASP:OD1	1:T:398:TYR:OH	2.19	0.58
1:W:355:LEU:HD23	1:W:646:GLN:HG2	1.84	0.58
1:B:449:THR:OG1	1:V:501:PHE:HE2	1.85	0.58
1:V:532:ASP:OD1	1:V:564:GLU:OE2	2.27	0.58
1:M:512:ASN:HD21	1:6:529:ASP:H	192.96	0.58
1:5:441:GLN:OE1	1:5:475:PRO:HD2	2.02	0.58
1:H:509:TYR:CD1	1:H:518:ILE:HD13	2.40	0.58
1:Q:322:LYS:O	1:Q:673:GLN:HB2	2.04	0.58
1:J:532:ASP:OD1	1:J:564:GLU:OE2	2.39	0.58
1:T:611:ASP:HB2	1:T:730:ARG:NH1	2.17	0.58
1:T:262:SER:O	1:T:265:THR:HG22	2.03	0.58
1:H:267:ALA:O	1:H:268:SER:CB	2.56	0.58
1:X:607:TRP:HD1	1:X:608:GLN:O	1.87	0.58
1:7:419:VAL:HG11	1:7:640:LEU:CD2	2.34	0.58
1:H:360:GLN:NE2	1:2:440:ASP:HB2	2.19	0.58
1:K:615:GLN:HE22	1:K:726:PRO:HA	1.76	0.58
1:Q:444:TYR:CZ	1:Q:465:ARG:HB3	2.52	0.58
1:K:698:GLU:OE1	1:K:733:THR:HG23	2.05	0.58
1:J:246:THR:HG23	1:J:678:GLN:HE21	1.73	0.58
1:K:224:ALA:H	1:O:408:ASN:ND2	1.97	0.58
1:Y:501:PHE:CD2	1:Y:501:PHE:N	2.70	0.58
1:A:472:SER:HB3	1:Z:270:ASP:O	164.73	0.58
1:Z:725:ARG:HB2	1:Z:726:PRO:HD2	1.88	0.58
1:P:701:TYR:CD2	1:P:701:TYR:C	2.77	0.58
1:H:517:ILE:CG2	1:2:473:VAL:HA	2.32	0.58
1:V:397:GLU:HB2	1:W:367:PRO:HB2	1.91	0.58
1:A:532:ASP:OD2	1:A:562:ASP:OD1	2.21	0.58
1:H:611:ASP:OD1	1:H:730:ARG:HG3	2.05	0.58
1:Z:312:LEU:HD12	1:Z:313:ASN:N	2.21	0.58
1:N:609:ASP:OD2	1:N:630:HIS:HE1	1.86	0.58
1:M:265:THR:HG23	1:M:267:ALA:H	1.69	0.58
1:I:624:HIS:O	1:J:427:HIS:HE1	42.43	0.58
1:B:419:VAL:HG11	1:B:640:LEU:CD2	2.33	0.58
1:O:501:PHE:N	1:O:501:PHE:CD2	2.71	0.58
1:A:519:ASN:HB3	1:A:520:PRO:CD	2.33	0.58
1:X:512:ASN:HD21	1:1:529:ASP:H	1.52	0.58
1:J:527:HIS:CE1	1:J:564:GLU:CD	2.84	0.58
1:K:529:ASP:H	1:T:512:ASN:HD21	1.52	0.58
1:C:609:ASP:O	1:C:730:ARG:NH2	2.33	0.58
1:K:693:LYS:HG3	1:U:399:PHE:CZ	163.48	0.58
1:A:487:GLN:HB3	1:A:537:MET:HE2	1.84	0.58
1:W:725:ARG:HB2	1:W:726:PRO:HD2	1.87	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:299:ARG:NH1	1:H:690:GLU:OE2	125.38	0.58
1:W:246:THR:HG23	1:W:678:GLN:NE2	2.18	0.58
1:V:289:HIS:CD2	1:V:365:PRO:HG3	2.39	0.58
1:I:480:PRO:O	1:I:605:MET:HG2	2.02	0.58
1:K:512:ASN:HD21	1:L:529:ASP:H	41.22	0.58
1:7:615:GLN:HE22	1:7:726:PRO:HA	1.68	0.58
1:S:501:PHE:HA	1:S:504:THR:HG22	1.87	0.58
1:4:696:ASN:ND2	1:4:696:ASN:H	2.02	0.58
1:2:501:PHE:H	1:3:449:THR:HG21	1.67	0.58
1:B:666:LYS:NZ	1:C:719:GLY:O	2.49	0.58
1:C:437:PRO:HB3	1:O:379:LEU:HD11	163.30	0.58
1:2:519:ASN:HB3	1:2:520:PRO:CD	2.34	0.58
1:R:297:TRP:CD1	1:R:301:ILE:HD11	2.48	0.58
1:6:562:ASP:OD2	1:6:564:GLU:HG3	2.03	0.58
1:E:312:LEU:HD12	1:E:313:ASN:N	2.40	0.58
1:W:267:ALA:O	1:W:268:SER:HB3	2.02	0.58
1:O:609:ASP:OD2	1:O:630:HIS:HE1	1.87	0.58
1:F:250:PRO:HB3	1:J:658:PRO:HG2	1.86	0.58
1:V:419:VAL:HG11	1:V:640:LEU:CD2	2.33	0.58
1:G:446:LEU:HD13	1:G:463:PHE:CE2	2.48	0.58
1:Y:693:LYS:HG3	1:0:399:PHE:CZ	2.38	0.58
1:Y:693:LYS:HG3	1:7:399:PHE:CZ	102.72	0.58
1:T:246:THR:HG23	1:T:678:GLN:HE21	1.73	0.58
1:F:312:LEU:HD12	1:F:313:ASN:H	1.69	0.58
1:F:607:TRP:HD1	1:F:608:GLN:O	1.86	0.58
1:M:449:THR:HG22	1:S:502:THR:HG23	217.31	0.58
1:Y:500:ASN:HA	1:Z:449:THR:CG2	2.31	0.58
1:I:519:ASN:CB	1:X:475:PRO:HA	2.31	0.58
1:E:519:ASN:HB3	1:E:520:PRO:CD	2.32	0.58
1:H:508:LYS:HA	1:H:518:ILE:HG12	1.90	0.58
1:E:473:VAL:HA	1:N:517:ILE:CG2	226.08	0.58
1:D:322:LYS:O	1:D:673:GLN:HB2	2.03	0.58
1:E:608:GLN:NE2	1:G:626:ASP:H	86.77	0.58
1:P:611:ASP:OD1	1:P:730:ARG:HG3	2.18	0.58
1:E:577:PHE:CD1	1:E:599:MET:HG2	2.39	0.58
1:C:246:THR:HG23	1:C:678:GLN:NE2	2.23	0.58
1:A:296:ASP:OD1	1:E:398:TYR:OH	2.20	0.58
1:V:321:VAL:HG11	1:V:339:SER:HB3	1.83	0.58
1:7:611:ASP:OD2	1:7:612:VAL:N	2.35	0.58
1:V:555:LEU:HD23	1:V:555:LEU:O	2.13	0.58
1:Z:238:ARG:HG2	1:Z:238:ARG:HH11	1.68	0.58
1:Y:529:ASP:H	1:7:512:ASN:HD21	129.78	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:464:SER:CB	1:Y:551:SER:HA	136.31	0.58
1:N:501:PHE:N	1:N:501:PHE:CD2	2.72	0.58
1:P:696:ASN:H	1:P:696:ASN:ND2	2.01	0.58
1:I:501:PHE:CD2	1:I:501:PHE:N	2.70	0.58
1:V:408:ASN:ND2	1:W:224:ALA:H	1.99	0.58
1:Z:520:PRO:HG2	1:Z:635:MET:HG2	1.93	0.58
1:Q:508:LYS:HA	1:Q:518:ILE:HG12	1.86	0.58
1:L:527:HIS:NE2	1:L:562:ASP:OD1	2.34	0.58
1:2:520:PRO:HG2	1:2:635:MET:HG2	1.85	0.58
1:Q:562:ASP:CG	1:Q:564:GLU:HG3	2.24	0.58
1:U:701:TYR:C	1:U:701:TYR:CD2	2.77	0.58
1:H:457:GLN:HB3	1:3:498:ASN:HD21	1.68	0.58
1:A:607:TRP:HD1	1:A:608:GLN:O	1.87	0.58
1:M:399:PHE:CE2	1:6:693:LYS:HG3	142.96	0.58
1:0:701:TYR:C	1:0:701:TYR:CD2	2.77	0.58
1:7:450:GLN:HA	1:7:459:LYS:O	2.04	0.58
1:S:321:VAL:HG11	1:S:339:SER:CB	2.51	0.58
1:D:423:SER:CB	1:D:425:TYR:CE2	2.87	0.58
1:C:693:LYS:HG3	1:O:399:PHE:CZ	144.32	0.58
1:C:698:GLU:OE1	1:C:733:THR:HG23	2.02	0.58
1:K:321:VAL:HG11	1:K:339:SER:HB3	1.86	0.58
1:R:527:HIS:NE2	1:R:562:ASP:OD1	2.44	0.58
1:K:501:PHE:HA	1:K:504:THR:HG22	1.88	0.58
1:5:501:PHE:CD2	1:5:501:PHE:N	2.70	0.58
1:7:527:HIS:CE1	1:7:532:ASP:OD1	2.56	0.58
1:Y:519:ASN:O	1:Y:520:PRO:C	2.38	0.58
1:F:532:ASP:OD2	1:F:562:ASP:OD1	2.22	0.58
1:K:486:GLN:NE2	1:K:538:SER:H	2.17	0.58
1:0:519:ASN:HB3	1:0:520:PRO:CD	2.33	0.58
1:A:609:ASP:O	1:A:730:ARG:NH2	2.34	0.58
1:R:508:LYS:HA	1:R:518:ILE:HG12	1.92	0.58
1:E:626:ASP:H	1:F:608:GLN:NE2	2.02	0.58
1:B:634:LEU:HB2	1:P:477:ASN:O	181.21	0.58
1:4:698:GLU:OE1	1:4:733:THR:HG23	2.04	0.58
1:A:698:GLU:OE1	1:A:733:THR:HG23	2.04	0.58
1:S:435:MET:HG2	1:S:474:GLN:OE1	2.04	0.58
1:V:658:PRO:HG2	1:W:250:PRO:HB3	1.97	0.58
1:W:696:ASN:HD22	1:W:696:ASN:H	1.52	0.57
1:I:475:PRO:HA	1:1:519:ASN:CB	2.34	0.57
1:Z:519:ASN:O	1:Z:520:PRO:C	2.38	0.57
1:W:508:LYS:HA	1:W:518:ILE:HG12	1.86	0.57
1:P:366:PHE:CE2	1:P:368:ALA:HB3	2.47	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:519:ASN:O	1:E:521:GLY:N	2.44	0.57
1:B:519:ASN:O	1:B:520:PRO:C	2.44	0.57
1:G:615:GLN:HE22	1:G:726:PRO:HA	1.69	0.57
1:L:564:GLU:O	1:L:567:LYS:HG3	2.04	0.57
1:H:472:SER:HB3	1:3:270:ASP:O	2.04	0.57
1:U:509:TYR:HD1	1:U:518:ILE:CD1	2.17	0.57
1:X:509:TYR:HB3	1:X:518:ILE:HD11	1.84	0.57
1:Y:527:HIS:NE2	1:Y:564:GLU:CD	2.58	0.57
1:W:562:ASP:CG	1:W:564:GLU:HG3	2.28	0.57
1:M:437:PRO:HB3	1:S:379:LEU:HD11	173.01	0.57
1:K:438:LEU:HD11	1:U:277:SER:HB2	192.02	0.57
1:4:322:LYS:O	1:4:673:GLN:HB2	2.04	0.57
1:O:423:SER:HB2	1:O:425:TYR:CE2	2.42	0.57
1:O:607:TRP:HD1	1:O:608:GLN:O	2.14	0.57
1:U:267:ALA:O	1:U:268:SER:HB3	2.04	0.57
1:D:609:ASP:O	1:D:730:ARG:NH2	2.55	0.57
1:D:282:TYR:CE2	1:D:374:PRO:HB2	2.39	0.57
1:Y:265:THR:HG23	1:Y:267:ALA:H	1.69	0.57
1:2:366:PHE:CE2	1:2:368:ALA:HB3	2.39	0.57
1:R:609:ASP:OD2	1:R:630:HIS:HE1	1.88	0.57
1:M:289:HIS:CE1	1:M:365:PRO:HG3	2.39	0.57
1:G:577:PHE:CE1	1:G:599:MET:HG2	2.39	0.57
1:C:621:LYS:HB2	1:C:643:PRO:HG3	1.85	0.57
1:E:480:PRO:O	1:E:605:MET:HG2	2.03	0.57
1:F:277:SER:HB2	1:G:438:LEU:HD11	61.79	0.57
1:5:435:MET:HG2	1:5:474:GLN:OE1	2.03	0.57
1:K:449:THR:HG21	1:U:501:PHE:H	223.34	0.57
1:D:464:SER:HB3	1:W:551:SER:CA	180.49	0.57
1:P:224:ALA:H	1:T:408:ASN:ND2	1.96	0.57
1:Y:502:THR:HG23	1:Z:449:THR:HG22	1.84	0.57
1:4:435:MET:HG2	1:4:474:GLN:OE1	2.04	0.57
1:O:701:TYR:CD2	1:O:701:TYR:C	2.81	0.57
1:6:527:HIS:CE1	1:6:532:ASP:OD1	2.56	0.57
1:G:562:ASP:CG	1:G:564:GLU:HG3	2.25	0.57
1:L:626:ASP:H	1:T:608:GLN:NE2	86.63	0.57
1:D:321:VAL:HG11	1:D:339:SER:CB	2.33	0.57
1:R:725:ARG:HB2	1:R:726:PRO:HD2	1.96	0.57
1:L:611:ASP:OD1	1:L:730:ARG:HG3	2.04	0.57
1:S:725:ARG:HB2	1:S:726:PRO:HD2	2.01	0.57
1:D:423:SER:HB2	1:D:425:TYR:CE2	2.39	0.57
1:E:611:ASP:OD1	1:E:730:ARG:HG3	2.04	0.57
1:J:615:GLN:HE22	1:J:726:PRO:HA	1.75	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:615:GLN:HE22	1:D:726:PRO:HA	1.69	0.57
1:P:289:HIS:CE1	1:P:365:PRO:HG3	2.38	0.57
1:A:502:THR:O	1:A:506:ALA:HB2	2.04	0.57
1:A:551:SER:HA	1:Q:464:SER:CB	211.36	0.57
1:F:464:SER:CB	1:4:551:SER:HA	145.58	0.57
1:T:527:HIS:CE1	1:T:532:ASP:OD1	2.57	0.57
1:Q:502:THR:HG23	1:Z:449:THR:HG22	135.70	0.57
1:K:562:ASP:CG	1:K:564:GLU:HG3	2.27	0.57
1:R:562:ASP:CG	1:R:564:GLU:HG3	2.25	0.57
1:3:519:ASN:O	1:3:521:GLY:N	2.37	0.57
1:I:509:TYR:HD1	1:I:518:ILE:CD1	2.19	0.57
1:J:470:GLY:O	1:J:473:VAL:HG22	2.04	0.57
1:W:519:ASN:O	1:W:521:GLY:N	2.46	0.57
1:K:395:CYS:SG	1:K:397:GLU:HG2	2.65	0.57
1:Y:322:LYS:HB2	1:Y:674:TYR:CE1	2.43	0.57
1:R:519:ASN:HB3	1:7:475:PRO:HA	1.86	0.57
1:U:532:ASP:OD2	1:U:562:ASP:OD1	2.22	0.57
1:M:299:ARG:NH1	1:T:690:GLU:OE2	100.67	0.57
1:D:693:LYS:HG3	1:W:399:PHE:CZ	142.31	0.57
1:X:423:SER:CB	1:X:425:TYR:CE2	2.93	0.57
1:6:262:SER:O	1:6:265:THR:HG22	2.04	0.57
1:T:282:TYR:CE2	1:T:374:PRO:HB2	2.45	0.57
1:N:608:GLN:NE2	1:R:626:ASP:H	173.11	0.57
1:Y:608:GLN:NE2	1:0:626:ASP:H	2.03	0.57
1:I:555:LEU:O	1:I:555:LEU:HD23	2.03	0.57
1:Q:621:LYS:HB2	1:Q:643:PRO:HG3	1.86	0.57
1:Z:700:GLN:HA	1:Z:700:GLN:HE21	1.69	0.57
1:A:690:GLU:OE2	1:F:299:ARG:NH1	2.36	0.57
1:V:566:ILE:HG13	1:V:570:ASN:HB2	1.85	0.57
1:K:464:SER:HB3	1:U:551:SER:CA	214.10	0.57
1:J:501:PHE:N	1:J:501:PHE:CD2	2.72	0.57
1:T:519:ASN:O	1:T:520:PRO:C	2.40	0.57
1:E:517:ILE:CG2	1:5:473:VAL:HA	132.22	0.57
1:3:532:ASP:OD1	1:3:564:GLU:OE2	2.22	0.57
1:D:701:TYR:C	1:D:701:TYR:CD2	2.78	0.57
1:1:532:ASP:OD1	1:1:564:GLU:OE2	2.22	0.57
1:K:609:ASP:OD2	1:K:630:HIS:HE1	1.92	0.57
1:A:725:ARG:HB2	1:A:726:PRO:HD2	1.87	0.57
1:R:698:GLU:OE1	1:R:733:THR:HG23	2.03	0.57
1:E:246:THR:HG23	1:E:678:GLN:NE2	2.20	0.57
1:C:555:LEU:O	1:C:555:LEU:HD23	2.07	0.57
1:A:480:PRO:O	1:A:605:MET:HG2	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:0:577:PHE:CE1	1:0:599:MET:HG2	2.40	0.57
1:3:361:GLY:HA3	1:3:374:PRO:HG3	1.86	0.57
1:L:501:PHE:HA	1:L:504:THR:HG22	1.89	0.57
1:C:501:PHE:HE2	1:X:449:THR:OG1	204.04	0.57
1:I:449:THR:HG22	1:V:502:THR:HG23	142.67	0.57
1:E:501:PHE:N	1:E:501:PHE:CD2	2.75	0.57
1:2:501:PHE:N	1:2:501:PHE:CD2	2.68	0.57
1:1:519:ASN:O	1:1:520:PRO:C	2.40	0.57
1:Z:519:ASN:O	1:Z:521:GLY:N	2.42	0.57
1:D:519:ASN:O	1:D:521:GLY:N	2.45	0.57
1:W:486:GLN:HE22	1:W:539:GLY:N	2.02	0.57
1:M:502:THR:HG23	1:6:449:THR:HG22	180.02	0.57
1:Z:282:TYR:CE2	1:Z:374:PRO:HB2	2.39	0.57
1:7:509:TYR:HD1	1:7:518:ILE:CD1	2.18	0.57
1:S:529:ASP:H	1:6:512:ASN:HD21	1.52	0.57
1:S:562:ASP:CG	1:S:564:GLU:HG3	2.25	0.57
1:B:519:ASN:HB3	1:B:520:PRO:CD	2.39	0.57
1:P:435:MET:HG2	1:P:474:GLN:OE1	2.03	0.57
1:H:473:VAL:HA	1:3:517:ILE:CG2	2.34	0.57
1:C:397:GLU:HB2	1:D:367:PRO:HB2	1.85	0.57
1:U:324:VAL:HB	1:U:333:ILE:HG23	1.85	0.57
1:G:247:TRP:HB3	1:G:371:PHE:CE1	2.40	0.57
1:K:267:ALA:O	1:K:268:SER:CB	2.58	0.57
1:I:423:SER:CB	1:I:425:TYR:CE2	2.88	0.57
1:J:626:ASP:H	1:V:608:GLN:NE2	93.57	0.57
1:T:609:ASP:OD2	1:T:630:HIS:HE1	1.86	0.57
1:5:611:ASP:HB2	1:5:730:ARG:NH1	2.19	0.57
1:2:562:ASP:OD1	1:2:564:GLU:OE2	2.22	0.57
1:B:267:ALA:O	1:B:268:SER:CB	2.52	0.57
1:N:267:ALA:O	1:N:268:SER:CB	2.51	0.57
1:5:246:THR:HG23	1:5:678:GLN:NE2	2.19	0.57
1:W:480:PRO:O	1:W:605:MET:HG2	2.19	0.57
1:F:555:LEU:HD23	1:F:555:LEU:O	2.12	0.57
1:O:246:THR:HG23	1:O:678:GLN:HE21	1.68	0.57
1:B:408:ASN:HD21	1:C:224:ALA:N	1.92	0.57
1:J:501:PHE:H	1:V:449:THR:HG21	133.85	0.57
1:V:519:ASN:O	1:V:520:PRO:C	2.42	0.57
1:Z:486:GLN:NE2	1:Z:538:SER:H	2.02	0.57
1:S:397:GLU:HB2	1:T:367:PRO:HB2	1.85	0.57
1:E:509:TYR:CD1	1:E:518:ILE:HD13	2.32	0.57
1:H:517:ILE:HD11	1:H:538:SER:CB	2.41	0.57
1:Q:473:VAL:HA	1:U:517:ILE:CG2	122.83	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:527:HIS:CE1	1:E:532:ASP:OD1	2.71	0.57
1:Z:286:ASN:HD21	1:Z:618:ILE:H	1.53	0.57
1:W:701:TYR:CD2	1:W:701:TYR:C	2.78	0.57
1:Y:286:ASN:HD21	1:Y:618:ILE:H	1.53	0.57
1:Y:611:ASP:HB2	1:Y:730:ARG:NH1	2.23	0.57
1:W:265:THR:HG23	1:W:267:ALA:H	1.68	0.57
1:Q:312:LEU:HD12	1:Q:313:ASN:N	2.32	0.57
1:4:267:ALA:O	1:4:268:SER:HB3	2.04	0.57
1:L:287:ARG:HD2	1:U:442:TYR:CZ	151.92	0.57
1:T:615:GLN:HE22	1:T:726:PRO:HA	1.68	0.57
1:R:423:SER:HB3	1:Y:626:ASP:OD2	114.66	0.57
1:B:399:PHE:CZ	1:O:693:LYS:HG3	152.15	0.57
1:A:299:ARG:NH1	1:F:690:GLU:OE2	2.38	0.57
1:D:555:LEU:O	1:D:555:LEU:HD23	2.05	0.57
1:K:238:ARG:HH11	1:K:238:ARG:HG2	1.87	0.57
1:Q:698:GLU:OE1	1:Q:733:THR:HG23	2.03	0.57
1:Y:696:ASN:HD22	1:Y:696:ASN:H	1.52	0.57
1:X:501:PHE:CD2	1:X:501:PHE:N	2.73	0.57
1:V:532:ASP:OD2	1:V:562:ASP:OD1	2.23	0.57
1:R:408:ASN:HD21	1:S:224:ALA:N	2.09	0.57
1:Q:395:CYS:SG	1:Q:397:GLU:HG2	2.55	0.57
1:E:267:ALA:O	1:E:268:SER:CB	2.60	0.57
1:M:486:GLN:HE22	1:M:538:SER:H	1.53	0.57
1:P:532:ASP:OD2	1:P:562:ASP:OD1	2.21	0.57
1:X:701:TYR:CD2	1:X:701:TYR:C	2.80	0.57
1:H:725:ARG:HB2	1:H:726:PRO:HD2	1.87	0.57
1:7:487:GLN:HB3	1:7:537:MET:HE2	1.87	0.57
1:M:725:ARG:HB2	1:M:726:PRO:HD2	1.95	0.57
1:H:577:PHE:CE1	1:H:599:MET:HG2	2.43	0.57
1:O:658:PRO:HG2	1:P:250:PRO:HB3	85.12	0.57
1:T:398:TYR:OH	1:U:296:ASP:OD1	145.03	0.57
1:E:736:LEU:HD22	1:N:623:PRO:HB3	195.83	0.57
1:W:577:PHE:CE1	1:W:599:MET:HG2	2.44	0.57
1:6:611:ASP:OD1	1:6:730:ARG:HG3	2.05	0.57
1:P:444:TYR:CZ	1:P:465:ARG:HB3	2.48	0.57
1:H:355:LEU:HD23	1:H:646:GLN:HG2	1.96	0.57
1:R:238:ARG:HG2	1:R:238:ARG:HH11	1.70	0.57
1:E:555:LEU:HD23	1:E:555:LEU:O	2.09	0.57
1:H:464:SER:HB3	1:3:551:SER:CA	2.29	0.57
1:O:501:PHE:HA	1:O:504:THR:HG22	1.88	0.57
1:J:224:ALA:N	1:N:408:ASN:HD21	179.28	0.57
1:F:449:THR:CG2	1:4:500:ASN:HA	137.08	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:517:ILE:HD11	1:Z:538:SER:CB	2.35	0.57
1:B:359:HIS:CE1	1:P:436:ASN:H	189.72	0.57
1:C:432:ASP:O	1:C:435:MET:HE3	2.08	0.57
1:B:379:LEU:HD11	1:O:437:PRO:HB3	182.64	0.57
1:K:517:ILE:CG2	1:L:473:VAL:HA	75.77	0.57
1:D:517:ILE:CG2	1:H:473:VAL:HA	194.01	0.57
1:B:322:LYS:O	1:B:673:GLN:HB2	2.18	0.57
1:Q:286:ASN:HD21	1:Q:618:ILE:H	1.57	0.57
1:N:432:ASP:O	1:N:435:MET:HE3	2.21	0.57
1:L:277:SER:HB2	1:U:438:LEU:HD11	155.78	0.57
1:D:608:GLN:NE2	1:Q:626:ASP:H	203.90	0.57
1:N:693:LYS:HG3	1:R:399:PHE:CE2	162.80	0.57
1:I:355:LEU:HD23	1:I:646:GLN:HG2	1.86	0.57
1:Y:648:LEU:HD22	1:Y:648:LEU:N	2.22	0.57
1:T:321:VAL:HG11	1:T:339:SER:HB3	1.86	0.57
1:F:720:LEU:O	1:F:722:THR:HG22	2.03	0.57
1:X:502:THR:O	1:X:506:ALA:HB2	2.22	0.57
1:U:405:ARG:H	1:U:408:ASN:ND2	1.97	0.57
1:R:441:GLN:HE22	1:R:474:GLN:HB3	1.68	0.57
1:F:366:PHE:CE2	1:F:368:ALA:HB3	2.40	0.57
1:Z:247:TRP:HB3	1:Z:371:PHE:CE1	2.64	0.57
1:M:437:PRO:HB3	1:T:379:LEU:HD11	149.26	0.57
1:5:397:GLU:HB2	1:6:367:PRO:HB2	1.87	0.57
1:A:626:ASP:H	1:W:608:GLN:NE2	2.03	0.57
1:I:608:GLN:HE22	1:1:626:ASP:H	1.53	0.57
1:N:398:TYR:OH	1:O:296:ASP:OD1	2.23	0.57
1:G:267:ALA:O	1:G:268:SER:HB3	2.11	0.57
1:Q:246:THR:HG23	1:Q:678:GLN:NE2	2.31	0.57
1:P:246:THR:HG23	1:P:678:GLN:NE2	2.19	0.57
1:5:609:ASP:OD2	1:5:630:HIS:HE1	1.87	0.57
1:N:566:ILE:HG13	1:N:570:ASN:HB2	1.87	0.57
1:P:621:LYS:HB2	1:P:643:PRO:HG3	2.00	0.57
1:N:246:THR:HG23	1:N:678:GLN:HE21	1.68	0.57
1:2:615:GLN:HE22	1:2:726:PRO:HA	1.69	0.57
1:W:386:GLN:NE2	1:X:707:LYS:HD2	2.20	0.57
1:K:501:PHE:N	1:K:501:PHE:CD2	2.74	0.57
1:I:473:VAL:HA	1:V:517:ILE:CG2	136.04	0.57
1:K:441:GLN:OE1	1:K:475:PRO:HD2	2.07	0.57
1:E:437:PRO:HB3	1:N:379:LEU:HD11	214.44	0.57
1:N:520:PRO:HG2	1:N:635:MET:HG2	1.92	0.57
1:B:277:SER:HB2	1:O:438:LEU:HD11	181.26	0.57
1:A:517:ILE:CG2	1:Q:473:VAL:HA	202.01	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:517:ILE:HD11	1:D:538:SER:CB	2.42	0.57
1:B:270:ASP:O	1:O:472:SER:HB3	196.00	0.57
1:K:701:TYR:C	1:K:701:TYR:CD2	2.79	0.57
1:E:529:ASP:H	1:N:512:ASN:HD21	225.28	0.57
1:H:395:CYS:SG	1:H:397:GLU:HG2	2.45	0.57
1:R:520:PRO:HG2	1:R:635:MET:HG2	1.89	0.57
1:Z:609:ASP:OD2	1:Z:630:HIS:HE1	1.87	0.57
1:F:399:PHE:CE2	1:G:693:LYS:HG3	38.19	0.57
1:3:423:SER:HB2	1:3:425:TYR:CE2	2.40	0.57
1:6:267:ALA:O	1:6:268:SER:CB	2.52	0.57
1:A:649:ILE:HG12	1:A:650:LYS:H	1.70	0.57
1:O:621:LYS:HB2	1:O:643:PRO:HG3	1.94	0.57
1:A:246:THR:HG23	1:A:678:GLN:HE21	1.70	0.57
1:I:464:SER:CB	1:1:551:SER:HA	2.32	0.56
1:I:449:THR:CG2	1:V:500:ASN:HA	145.08	0.56
1:M:701:TYR:CD2	1:M:701:TYR:C	2.85	0.56
1:6:519:ASN:O	1:6:521:GLY:N	2.37	0.56
1:E:287:ARG:HD2	1:F:442:TYR:CZ	2.39	0.56
1:A:517:ILE:HD11	1:A:538:SER:CB	2.35	0.56
1:7:519:ASN:O	1:7:520:PRO:C	2.36	0.56
1:M:322:LYS:O	1:M:673:GLN:HB2	2.21	0.56
1:Q:527:HIS:CE1	1:Q:564:GLU:CD	2.78	0.56
1:I:532:ASP:OD2	1:I:562:ASP:OD1	2.30	0.56
1:E:423:SER:CB	1:E:425:TYR:CE2	2.88	0.56
1:0:267:ALA:O	1:0:268:SER:CB	2.53	0.56
1:R:615:GLN:HE22	1:R:726:PRO:HA	1.72	0.56
1:Q:267:ALA:O	1:Q:268:SER:HB3	2.03	0.56
1:X:480:PRO:O	1:X:605:MET:HG2	2.05	0.56
1:1:419:VAL:HG11	1:1:640:LEU:CD2	2.36	0.56
1:N:444:TYR:CE2	1:N:465:ARG:HB3	2.39	0.56
1:0:244:THR:HA	1:0:679:VAL:O	2.05	0.56
1:M:427:HIS:HE1	1:S:624:HIS:O	149.89	0.56
1:2:696:ASN:ND2	1:2:696:ASN:H	2.02	0.56
1:4:501:PHE:N	1:4:501:PHE:CD2	2.73	0.56
1:N:532:ASP:OD2	1:N:562:ASP:OD1	2.23	0.56
1:Y:449:THR:HG22	1:7:502:THR:HG23	147.69	0.56
1:K:397:GLU:HB2	1:L:367:PRO:HB2	1.94	0.56
1:3:508:LYS:HA	1:3:518:ILE:HG12	1.87	0.56
1:H:486:GLN:HE22	1:H:538:SER:H	1.53	0.56
1:C:322:LYS:O	1:C:673:GLN:HB2	2.05	0.56
1:D:527:HIS:CE1	1:D:564:GLU:CD	2.78	0.56
1:X:532:ASP:OD2	1:X:562:ASP:OD1	2.33	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:423:SER:HB2	1:E:425:TYR:CE2	2.40	0.56
1:O:527:HIS:CE1	1:O:564:GLU:CD	2.79	0.56
1:Z:512:ASN:HD21	1:O:529:ASP:H	1.53	0.56
1:N:423:SER:HB2	1:N:425:TYR:CE2	2.47	0.56
1:M:658:PRO:HG2	1:N:250:PRO:HB3	1.86	0.56
1:O:648:LEU:HD22	1:O:648:LEU:N	2.20	0.56
1:V:615:GLN:HE22	1:V:726:PRO:HA	1.74	0.56
1:B:464:SER:CB	1:V:551:SER:HA	2.34	0.56
1:B:500:ASN:HA	1:O:449:THR:CG2	220.77	0.56
1:O:446:LEU:HD13	1:O:463:PHE:CE2	2.41	0.56
1:J:446:LEU:HD13	1:J:463:PHE:CE2	2.54	0.56
1:B:446:LEU:HD13	1:B:463:PHE:CE2	2.43	0.56
1:A:449:THR:HG21	1:Z:501:PHE:H	160.52	0.56
1:F:408:ASN:ND2	1:G:224:ALA:H	1.98	0.56
1:P:519:ASN:O	1:P:521:GLY:N	2.45	0.56
1:A:473:VAL:HA	1:J:517:ILE:CG2	2.35	0.56
1:C:379:LEU:HD11	1:R:437:PRO:HB3	221.64	0.56
1:4:519:ASN:O	1:4:521:GLY:N	2.38	0.56
1:J:286:ASN:HD21	1:J:618:ILE:H	1.52	0.56
1:V:297:TRP:CD1	1:V:301:ILE:HD11	2.39	0.56
1:L:486:GLN:HE22	1:L:538:SER:H	1.53	0.56
1:H:322:LYS:O	1:H:673:GLN:HB2	2.05	0.56
1:B:366:PHE:CE2	1:B:368:ALA:HB3	2.39	0.56
1:B:282:TYR:CE2	1:B:374:PRO:HB2	2.40	0.56
1:L:701:TYR:C	1:L:701:TYR:CD2	2.79	0.56
1:7:267:ALA:O	1:7:268:SER:CB	2.54	0.56
1:A:379:LEU:HD11	1:W:437:PRO:HB3	1.85	0.56
1:Q:437:PRO:HB3	1:U:379:LEU:HD11	125.92	0.56
1:G:322:LYS:O	1:G:673:GLN:HB2	2.09	0.56
1:U:532:ASP:OD1	1:U:564:GLU:OE2	2.24	0.56
1:P:532:ASP:OD1	1:P:564:GLU:OE2	2.22	0.56
1:P:562:ASP:CG	1:P:564:GLU:HG3	2.26	0.56
1:5:324:VAL:HB	1:5:333:ILE:HG23	1.87	0.56
1:Z:609:ASP:O	1:Z:730:ARG:NH2	2.33	0.56
1:3:367:PRO:HB2	1:7:397:GLU:HB2	1.87	0.56
1:B:608:GLN:NE2	1:P:626:ASP:H	173.57	0.56
1:I:608:GLN:NE2	1:V:626:ASP:H	120.14	0.56
1:E:690:GLU:OE2	1:H:299:ARG:NH1	100.88	0.56
1:C:608:GLN:NE2	1:O:626:ASP:H	166.82	0.56
1:T:322:LYS:O	1:T:673:GLN:HB2	2.07	0.56
1:P:609:ASP:O	1:P:730:ARG:NH2	2.51	0.56
1:S:438:LEU:HD23	1:S:438:LEU:N	2.20	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:423:SER:HB2	1:R:425:TYR:CE2	2.40	0.56
1:I:267:ALA:O	1:I:268:SER:CB	2.53	0.56
1:C:299:ARG:NH1	1:P:690:GLU:OE2	167.09	0.56
1:6:609:ASP:OD2	1:6:630:HIS:HE1	1.88	0.56
1:K:736:LEU:HD22	1:T:623:PRO:HB3	1.86	0.56
1:J:578:GLY:O	1:J:596:VAL:HG12	2.04	0.56
1:H:435:MET:HG2	1:H:474:GLN:OE1	2.06	0.56
1:E:578:GLY:O	1:E:596:VAL:HG12	2.06	0.56
1:P:423:SER:CB	1:P:425:TYR:CE2	3.00	0.56
1:V:648:LEU:HD22	1:V:648:LEU:N	2.21	0.56
1:W:720:LEU:O	1:W:722:THR:HG22	2.06	0.56
1:E:270:ASP:O	1:F:472:SER:HB3	2.06	0.56
1:H:419:VAL:HG11	1:H:640:LEU:CD2	2.35	0.56
1:A:599:MET:HE2	1:J:484:TYR:CE1	2.40	0.56
1:I:449:THR:OG1	1:I:501:PHE:HE2	1.88	0.56
1:Q:408:ASN:HD21	1:R:224:ALA:N	2.02	0.56
1:K:487:GLN:HE21	1:K:488:ARG:H	1.73	0.56
1:4:517:ILE:HD11	1:4:538:SER:CB	2.35	0.56
1:Y:322:LYS:O	1:Y:673:GLN:HB2	2.05	0.56
1:W:324:VAL:HB	1:W:333:ILE:HG23	1.95	0.56
1:M:270:ASP:O	1:S:472:SER:HB3	201.00	0.56
1:5:267:ALA:O	1:5:268:SER:CB	2.53	0.56
1:S:626:ASP:H	1:T:608:GLN:NE2	44.01	0.56
1:K:693:LYS:HG3	1:T:399:PHE:CZ	2.40	0.56
1:I:626:ASP:H	1:J:608:GLN:NE2	44.05	0.56
1:6:696:ASN:HD22	1:6:696:ASN:H	1.52	0.56
1:L:408:ASN:HD21	1:M:224:ALA:N	1.95	0.56
1:C:517:ILE:HD11	1:C:538:SER:CB	2.35	0.56
1:I:666:LYS:NZ	1:J:719:GLY:O	2.38	0.56
1:X:486:GLN:HE22	1:X:538:SER:H	1.63	0.56
1:K:519:ASN:CB	1:L:475:PRO:HA	78.54	0.56
1:O:529:ASP:H	1:X:512:ASN:HD21	178.64	0.56
1:H:527:HIS:CE1	1:H:564:GLU:CD	2.83	0.56
1:4:609:ASP:O	1:4:730:ARG:NH2	2.38	0.56
1:K:442:TYR:CZ	1:U:287:ARG:HD2	183.81	0.56
1:Q:360:GLN:NE2	1:Z:440:ASP:HB2	143.24	0.56
1:B:690:GLU:OE2	1:W:299:ARG:NH1	2.38	0.56
1:O:611:ASP:HB2	1:O:730:ARG:NH1	2.20	0.56
1:I:529:ASP:H	1:V:512:ASN:HD21	138.73	0.56
1:E:244:THR:HA	1:E:679:VAL:O	2.06	0.56
1:2:512:ASN:HD21	1:3:529:ASP:H	1.54	0.56
1:Y:437:PRO:HB3	1:0:379:LEU:HD11	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:658:PRO:HG2	1:7:250:PRO:HB3	1.88	0.56
1:A:555:LEU:O	1:A:555:LEU:HD23	2.09	0.56
1:C:449:THR:HG21	1:N:501:PHE:H	127.56	0.56
1:Z:379:LEU:HD11	1:O:437:PRO:HB3	1.88	0.56
1:D:519:ASN:O	1:D:520:PRO:C	2.45	0.56
1:L:519:ASN:O	1:L:520:PRO:C	2.32	0.56
1:I:517:ILE:HD11	1:I:538:SER:OG	2.06	0.56
1:J:438:LEU:HD23	1:J:438:LEU:N	2.21	0.56
1:3:486:GLN:HE22	1:3:538:SER:H	1.53	0.56
1:E:701:TYR:C	1:E:701:TYR:CD2	2.78	0.56
1:X:562:ASP:CG	1:X:564:GLU:HG3	2.26	0.56
1:E:608:GLN:HE22	1:N:626:ASP:H	192.02	0.56
1:M:446:LEU:HD13	1:M:463:PHE:CE2	2.41	0.56
1:P:426:ALA:O	1:P:733:THR:HA	2.27	0.56
1:A:267:ALA:O	1:A:268:SER:CB	2.54	0.56
1:E:658:PRO:HG2	1:F:250:PRO:HB3	85.07	0.56
1:J:312:LEU:HD12	1:J:313:ASN:H	1.70	0.56
1:S:355:LEU:HD23	1:S:646:GLN:HG2	1.88	0.56
1:V:621:LYS:HB2	1:V:643:PRO:HG3	1.87	0.56
1:R:658:PRO:HG2	1:S:250:PRO:HB3	2.06	0.56
1:X:621:LYS:HB2	1:X:643:PRO:HG3	1.87	0.56
1:1:696:ASN:ND2	1:1:696:ASN:H	2.04	0.56
1:A:470:GLY:O	1:A:473:VAL:HG22	2.06	0.56
1:B:287:ARG:HD2	1:O:442:TYR:CZ	181.30	0.56
1:4:527:HIS:CE1	1:4:532:ASP:OD1	2.59	0.56
1:H:297:TRP:CD1	1:H:301:ILE:HD11	2.39	0.56
1:2:359:HIS:CE1	1:3:436:ASN:H	2.23	0.56
1:J:282:TYR:CE2	1:J:374:PRO:HB2	2.53	0.56
1:R:486:GLN:HE22	1:R:539:GLY:N	2.05	0.56
1:J:460:ASP:HA	1:W:493:LYS:HE3	1.87	0.56
1:I:564:GLU:O	1:I:567:LYS:HG3	2.09	0.56
1:3:527:HIS:CE1	1:3:564:GLU:CD	2.79	0.56
1:H:701:TYR:CD2	1:H:701:TYR:C	2.78	0.56
1:J:301:ILE:HG12	1:J:729:THR:HA	1.98	0.56
1:X:282:TYR:CE2	1:X:374:PRO:HB2	2.44	0.56
1:O:419:VAL:HG11	1:O:640:LEU:CD2	2.44	0.56
1:C:419:VAL:HG11	1:C:640:LEU:CD2	2.35	0.56
1:D:446:LEU:HD13	1:D:463:PHE:CE2	2.54	0.56
1:Q:615:GLN:HE22	1:Q:726:PRO:HA	1.76	0.56
1:Q:725:ARG:HB2	1:Q:726:PRO:HD2	1.88	0.56
1:Y:321:VAL:HG11	1:Y:339:SER:HB3	1.92	0.56
1:B:577:PHE:CE1	1:B:599:MET:HG2	2.41	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:289:HIS:CE1	1:Y:365:PRO:HG3	2.47	0.56
1:X:551:SER:HA	1:1:464:SER:CB	2.30	0.56
1:Q:696:ASN:ND2	1:Q:696:ASN:H	2.07	0.56
1:Y:224:ALA:N	1:2:408:ASN:HD21	91.50	0.56
1:4:696:ASN:HD22	1:4:696:ASN:H	1.53	0.56
1:N:532:ASP:OD1	1:N:564:GLU:OE2	2.24	0.56
1:Q:441:GLN:HE22	1:Q:474:GLN:HB3	1.88	0.56
1:U:366:PHE:CE2	1:U:368:ALA:HB3	2.40	0.56
1:E:438:LEU:HD11	1:G:277:SER:HB2	89.85	0.56
1:3:509:TYR:HD1	1:3:518:ILE:CD1	2.15	0.56
1:A:509:TYR:HD1	1:A:518:ILE:CD1	2.18	0.56
1:K:470:GLY:O	1:K:473:VAL:HG22	2.06	0.56
1:B:322:LYS:HB2	1:B:674:TYR:CE1	2.41	0.56
1:X:517:ILE:CG2	1:1:473:VAL:HA	2.34	0.56
1:J:562:ASP:CG	1:J:564:GLU:HG3	2.32	0.56
1:Q:301:ILE:HG12	1:Q:729:THR:HA	2.01	0.56
1:Z:322:LYS:HB2	1:Z:674:TYR:CE1	2.45	0.56
1:O:457:GLN:HB3	1:X:498:ASN:HD21	213.73	0.56
1:G:532:ASP:OD2	1:G:562:ASP:OD1	2.24	0.56
1:A:527:HIS:CE1	1:A:564:GLU:CD	2.79	0.56
1:I:423:SER:HB2	1:I:425:TYR:CE2	2.41	0.56
1:D:399:PHE:CE2	1:U:693:LYS:HG3	162.88	0.56
1:1:267:ALA:O	1:1:268:SER:HB3	2.06	0.56
1:G:423:SER:HB2	1:G:425:TYR:CE2	2.43	0.56
1:B:246:THR:HG23	1:B:678:GLN:NE2	2.21	0.56
1:I:321:VAL:HG11	1:I:339:SER:CB	2.36	0.56
1:O:725:ARG:HB2	1:O:726:PRO:HD2	1.88	0.56
1:O:289:HIS:CE1	1:O:365:PRO:HG3	2.41	0.56
1:D:725:ARG:HB2	1:D:726:PRO:HD2	1.87	0.56
1:A:433:ARG:HG3	1:J:382:ASN:HD21	1.71	0.56
1:T:719:GLY:HA2	1:X:257:TYR:O	194.84	0.56
1:D:398:TYR:OH	1:Z:296:ASP:OD1	165.96	0.56
1:P:545:LYS:O	1:P:547:SER:N	2.35	0.56
1:L:349:TYR:OH	1:L:643:PRO:O	2.48	0.56
1:W:398:TYR:OH	1:X:296:ASP:OD1	2.33	0.56
1:H:464:SER:CB	1:3:551:SER:HA	2.29	0.56
1:O:441:GLN:OE1	1:O:475:PRO:HD2	2.04	0.56
1:O:441:GLN:NE2	1:O:474:GLN:HB3	2.21	0.56
1:1:519:ASN:O	1:1:521:GLY:N	2.39	0.56
1:A:442:TYR:HD2	1:J:359:HIS:O	1.89	0.56
1:A:519:ASN:O	1:A:521:GLY:N	2.49	0.56
1:W:441:GLN:OE1	1:W:475:PRO:HD2	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:519:ASN:O	1:I:520:PRO:C	2.41	0.56
1:4:520:PRO:HG2	1:4:635:MET:HG2	1.87	0.56
1:G:519:ASN:O	1:G:521:GLY:N	2.47	0.56
1:O:532:ASP:OD2	1:O:562:ASP:OD1	2.31	0.56
1:4:286:ASN:HD21	1:4:618:ILE:H	1.49	0.56
1:L:322:LYS:O	1:L:673:GLN:HB2	2.05	0.56
1:V:245:ARG:NE	1:V:367:PRO:HA	2.21	0.56
1:K:297:TRP:CD1	1:K:301:ILE:HD11	2.41	0.56
1:H:626:ASP:H	1:W:608:GLN:NE2	120.18	0.56
1:A:626:ASP:H	1:Q:608:GLN:NE2	173.55	0.56
1:F:493:LYS:HE3	1:G:460:ASP:HA	113.64	0.56
1:S:287:ARG:HD2	1:T:442:TYR:CZ	84.42	0.56
1:V:725:ARG:HB2	1:V:726:PRO:HD2	1.89	0.56
1:J:419:VAL:HG11	1:J:640:LEU:CD2	2.36	0.56
1:P:658:PRO:HG2	1:Q:250:PRO:HB3	1.88	0.56
1:6:419:VAL:HG11	1:6:640:LEU:CD2	2.36	0.56
1:L:577:PHE:CE1	1:L:599:MET:HG2	2.40	0.56
1:D:501:PHE:CD2	1:D:501:PHE:N	2.74	0.56
1:H:500:ASN:HA	1:W:449:THR:CG2	145.32	0.56
1:H:501:PHE:H	1:2:449:THR:HG21	1.70	0.56
1:L:501:PHE:H	1:U:449:THR:HG21	195.79	0.56
1:Q:551:SER:CA	1:Z:464:SER:HB3	147.45	0.56
1:B:501:PHE:CA	1:B:504:THR:HG22	2.51	0.56
1:A:224:ALA:H	1:E:408:ASN:ND2	1.95	0.56
1:7:527:HIS:NE2	1:7:564:GLU:CD	2.59	0.56
1:B:287:ARG:HD2	1:P:442:TYR:CZ	183.02	0.56
1:D:509:TYR:HD1	1:D:518:ILE:CD1	2.21	0.56
1:S:517:ILE:HD11	1:S:538:SER:CB	2.36	0.56
1:O:562:ASP:CG	1:O:564:GLU:HG3	2.27	0.56
1:S:286:ASN:HD21	1:S:618:ILE:H	1.52	0.56
1:P:527:HIS:CE1	1:P:564:GLU:CD	2.79	0.56
1:P:322:LYS:HB2	1:P:674:TYR:CE1	2.40	0.56
1:P:630:HIS:N	1:P:631:PRO:HD3	2.21	0.56
1:T:446:LEU:HD13	1:T:463:PHE:CE2	2.44	0.56
1:L:399:PHE:CZ	1:T:693:LYS:HG3	87.68	0.56
1:2:611:ASP:HB2	1:2:730:ARG:NH1	2.21	0.56
1:V:321:VAL:HG11	1:V:339:SER:CB	2.36	0.56
1:B:386:GLN:NE2	1:C:707:LYS:HD2	2.21	0.56
1:1:252:TYR:CE1	1:1:375:GLN:HB2	2.41	0.56
1:W:555:LEU:HD23	1:W:555:LEU:O	2.11	0.56
1:F:624:HIS:O	1:G:427:HIS:HE1	42.27	0.56
1:K:227:ASN:HD21	1:O:402:GLN:HG3	1.71	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:551:SER:CA	1:Q:464:SER:HB3	212.60	0.55
1:E:224:ALA:H	1:I:408:ASN:ND2	96.34	0.55
1:R:527:HIS:CE1	1:R:532:ASP:OD1	2.63	0.55
1:4:487:GLN:HB3	1:4:537:MET:HE2	1.88	0.55
1:J:486:GLN:HE22	1:J:538:SER:H	1.63	0.55
1:M:487:GLN:HB3	1:M:537:MET:HE2	1.88	0.55
1:J:397:GLU:HB2	1:K:367:PRO:HB2	200.99	0.55
1:Y:527:HIS:CE1	1:Y:532:ASP:OD1	2.59	0.55
1:L:397:GLU:HB2	1:M:367:PRO:HB2	1.88	0.55
1:G:366:PHE:CE2	1:G:368:ALA:HB3	2.41	0.55
1:M:517:ILE:CG2	1:S:473:VAL:HA	196.77	0.55
1:Q:701:TYR:CD2	1:Q:701:TYR:C	2.79	0.55
1:5:297:TRP:CD1	1:5:301:ILE:HD11	2.40	0.55
1:0:297:TRP:CD1	1:0:301:ILE:HD11	2.41	0.55
1:W:267:ALA:O	1:W:268:SER:CB	2.53	0.55
1:G:426:ALA:O	1:G:733:THR:HA	2.16	0.55
1:T:267:ALA:O	1:T:268:SER:CB	2.54	0.55
1:H:246:THR:HG23	1:H:678:GLN:NE2	2.20	0.55
1:F:498:ASN:HD21	1:G:457:GLN:HB3	105.34	0.55
1:2:355:LEU:HD23	1:2:646:GLN:HG2	1.88	0.55
1:E:623:PRO:HB3	1:F:736:LEU:HD22	1.88	0.55
1:K:449:THR:HG22	1:U:502:THR:HG23	221.21	0.55
1:B:464:SER:HB3	1:V:551:SER:CA	2.36	0.55
1:F:501:PHE:CD2	1:F:501:PHE:N	2.74	0.55
1:L:520:PRO:HG2	1:L:635:MET:HG2	1.88	0.55
1:U:441:GLN:OE1	1:U:475:PRO:HD2	2.06	0.55
1:J:436:ASN:H	1:W:359:HIS:CE1	2.25	0.55
1:G:486:GLN:HE22	1:G:538:SER:H	1.53	0.55
1:I:297:TRP:CD1	1:I:301:ILE:HD11	2.41	0.55
1:A:611:ASP:HB2	1:A:730:ARG:NH1	2.20	0.55
1:V:366:PHE:CE2	1:V:368:ALA:HB3	2.42	0.55
1:Q:564:GLU:O	1:Q:567:LYS:HG3	2.26	0.55
1:L:379:LEU:HD11	1:T:437:PRO:HB3	87.25	0.55
1:B:265:THR:HG23	1:B:267:ALA:H	1.76	0.55
1:J:529:ASP:H	1:W:512:ASN:HD21	1.54	0.55
1:S:437:PRO:HB3	1:6:379:LEU:HD11	1.86	0.55
1:S:615:GLN:HE22	1:S:726:PRO:HA	1.72	0.55
1:J:577:PHE:CE1	1:J:599:MET:HG2	2.42	0.55
1:E:693:LYS:HG3	1:G:399:PHE:CZ	87.73	0.55
1:H:501:PHE:CA	1:H:504:THR:HG22	2.36	0.55
1:P:487:GLN:HE22	1:V:585:GLN:H	216.93	0.55
1:W:340:THR:HG22	1:W:405:ARG:HG2	1.88	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:359:HIS:CE1	1:V:436:ASN:H	181.09	0.55
1:V:519:ASN:O	1:V:521:GLY:N	2.39	0.55
1:C:519:ASN:O	1:C:520:PRO:C	2.43	0.55
1:C:519:ASN:O	1:C:521:GLY:N	2.45	0.55
1:A:536:PRO:HG3	1:A:573:ALA:HB3	1.88	0.55
1:E:438:LEU:HD11	1:N:277:SER:HB2	208.72	0.55
1:E:442:TYR:CZ	1:G:287:ARG:HD2	50.31	0.55
1:I:366:PHE:CE2	1:I:368:ALA:HB3	2.42	0.55
1:T:286:ASN:HD21	1:T:618:ILE:H	1.52	0.55
1:J:321:VAL:HG11	1:J:339:SER:CB	2.35	0.55
1:K:282:TYR:CE2	1:K:374:PRO:HB2	2.51	0.55
1:Q:399:PHE:CE2	1:Z:693:LYS:HG3	120.11	0.55
1:7:701:TYR:C	1:7:701:TYR:CD2	2.80	0.55
1:I:690:GLU:OE2	1:W:299:ARG:NH1	111.19	0.55
1:O:693:LYS:HG3	1:X:399:PHE:CE2	130.67	0.55
1:B:658:PRO:HG2	1:C:250:PRO:HB3	1.88	0.55
1:0:622:ILE:HD12	1:0:631:PRO:HB2	1.87	0.55
1:F:507:SER:HA	1:G:579:THR:O	80.75	0.55
1:Q:324:VAL:HB	1:Q:333:ILE:HG23	1.89	0.55
1:6:289:HIS:CE1	1:6:365:PRO:HG3	2.40	0.55
1:S:608:GLN:NE2	1:6:626:ASP:H	2.05	0.55
1:B:698:GLU:OE1	1:B:733:THR:HG23	2.07	0.55
1:M:449:THR:HG21	1:S:501:PHE:H	220.15	0.55
1:O:500:ASN:HA	1:P:449:THR:CG2	2.34	0.55
1:T:224:ALA:N	1:X:408:ASN:HD21	155.90	0.55
1:Z:502:THR:O	1:Z:506:ALA:HB2	2.06	0.55
1:T:519:ASN:O	1:T:521:GLY:N	2.44	0.55
1:D:395:CYS:SG	1:D:397:GLU:HG2	2.57	0.55
1:E:509:TYR:HD1	1:E:518:ILE:CD1	2.13	0.55
1:F:519:ASN:O	1:F:520:PRO:C	2.40	0.55
1:4:441:GLN:HE22	1:4:474:GLN:HB3	1.70	0.55
1:G:517:ILE:CG2	1:4:473:VAL:HA	2.36	0.55
1:X:297:TRP:CD1	1:X:301:ILE:HD11	2.40	0.55
1:V:322:LYS:O	1:V:673:GLN:HB2	2.07	0.55
1:R:486:GLN:HE22	1:R:538:SER:H	1.57	0.55
1:Q:366:PHE:CE2	1:Q:368:ALA:HB3	2.45	0.55
1:Z:626:ASP:H	1:0:608:GLN:NE2	2.05	0.55
1:Y:312:LEU:HD12	1:Y:313:ASN:N	2.26	0.55
1:L:609:ASP:O	1:L:730:ARG:NH2	2.39	0.55
1:Q:512:ASN:HD21	1:Z:529:ASP:H	118.93	0.55
1:M:267:ALA:O	1:M:268:SER:CB	2.55	0.55
1:6:265:THR:HG23	1:6:267:ALA:H	1.71	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:287:ARG:HD2	1:L:442:TYR:CZ	84.47	0.55
1:M:626:ASP:H	1:S:608:GLN:NE2	173.15	0.55
1:Y:690:GLU:OE2	1:3:299:ARG:NH1	99.67	0.55
1:4:577:PHE:CE1	1:4:599:MET:HG2	2.41	0.55
1:R:312:LEU:HD12	1:R:313:ASN:H	1.71	0.55
1:G:435:MET:HG2	1:G:474:GLN:OE1	2.06	0.55
1:B:585:GLN:H	1:P:487:GLN:NE2	211.83	0.55
1:5:527:HIS:NE2	1:5:564:GLU:CD	2.60	0.55
1:5:501:PHE:HA	1:5:504:THR:HG22	1.88	0.55
1:I:435:MET:HG2	1:I:474:GLN:OE1	2.08	0.55
1:J:442:TYR:CZ	1:W:287:ARG:HD2	2.42	0.55
1:M:487:GLN:HE22	1:S:585:GLN:H	203.86	0.55
1:F:527:HIS:CE1	1:F:564:GLU:CD	2.83	0.55
1:K:509:TYR:CD1	1:K:518:ILE:HD13	2.34	0.55
1:H:270:ASP:O	1:2:472:SER:HB3	2.07	0.55
1:N:509:TYR:HD1	1:N:518:ILE:CD1	2.19	0.55
1:Z:527:HIS:CE1	1:Z:532:ASP:OD1	2.71	0.55
1:4:532:ASP:OD2	1:4:562:ASP:OD1	2.25	0.55
1:S:473:VAL:HA	1:6:517:ILE:CG2	2.36	0.55
1:U:527:HIS:CE1	1:U:564:GLU:CD	2.80	0.55
1:C:608:GLN:HE22	1:N:626:ASP:H	124.46	0.55
1:P:267:ALA:O	1:P:268:SER:CB	2.58	0.55
1:D:399:PHE:CE2	1:H:693:LYS:HG3	137.37	0.55
1:H:265:THR:HG23	1:H:267:ALA:H	1.86	0.55
1:3:423:SER:CB	1:3:425:TYR:CE2	2.90	0.55
1:R:299:ARG:NH1	1:Z:690:GLU:OE2	115.06	0.55
1:K:577:PHE:CE1	1:K:599:MET:HG2	2.41	0.55
1:5:355:LEU:HD23	1:5:646:GLN:HG2	1.88	0.55
1:P:480:PRO:O	1:P:605:MET:HG2	2.06	0.55
1:1:444:TYR:CZ	1:1:465:ARG:HB3	2.42	0.55
1:T:238:ARG:HH11	1:T:238:ARG:HG2	1.72	0.55
1:L:423:SER:CB	1:L:425:TYR:CE2	2.89	0.55
1:5:321:VAL:HG11	1:5:339:SER:HB3	1.86	0.55
1:A:500:ASN:HA	1:Q:449:THR:CG2	220.91	0.55
1:L:501:PHE:HE2	1:T:449:THR:OG1	60.15	0.55
1:R:501:PHE:H	1:7:449:THR:HG21	1.72	0.55
1:I:359:HIS:CE1	1:X:436:ASN:H	2.24	0.55
1:T:366:PHE:CE2	1:T:368:ALA:HB3	2.54	0.55
1:E:437:PRO:HB3	1:G:379:LEU:HD11	87.29	0.55
1:G:508:LYS:HA	1:G:518:ILE:HG12	1.89	0.55
1:O:470:GLY:O	1:O:473:VAL:HG22	2.22	0.55
1:Z:532:ASP:OD2	1:Z:562:ASP:OD1	2.28	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:247:TRP:HB2	1:I:373:ILE:HD11	1.87	0.55
1:W:322:LYS:HB2	1:W:674:TYR:CE1	2.42	0.55
1:E:265:THR:HG23	1:E:267:ALA:H	1.71	0.55
1:O:450:GLN:OE1	1:X:499:SER:HA	209.23	0.55
1:Q:690:GLU:OE2	1:V:299:ARG:NH1	128.35	0.55
1:J:423:SER:HB2	1:J:425:TYR:CE2	2.42	0.55
1:R:267:ALA:O	1:R:268:SER:CB	2.54	0.55
1:I:246:THR:HG23	1:I:678:GLN:NE2	2.26	0.55
1:Y:529:ASP:H	1:O:512:ASN:HD21	1.54	0.55
1:4:426:ALA:O	1:4:733:THR:HA	2.07	0.55
1:B:599:MET:HE2	1:V:484:TYR:CE1	2.42	0.55
1:X:272:HIS:HB3	1:X:384:GLY:HA2	1.89	0.55
1:N:622:ILE:HD12	1:N:631:PRO:HB2	1.88	0.55
1:X:578:GLY:O	1:X:596:VAL:HG12	2.05	0.55
1:K:419:VAL:HG11	1:K:640:LEU:CD2	2.40	0.55
1:6:698:GLU:OE1	1:6:733:THR:HG23	2.07	0.55
1:F:227:ASN:HD21	1:J:402:GLN:HG3	1.70	0.55
1:O:501:PHE:H	1:P:449:THR:HG21	1.72	0.55
1:K:527:HIS:CE1	1:K:532:ASP:OD1	2.60	0.55
1:N:527:HIS:CE1	1:N:564:GLU:CD	2.82	0.55
1:R:502:THR:HG23	1:7:449:THR:HG22	1.88	0.55
1:O:486:GLN:HE22	1:O:539:GLY:N	2.04	0.55
1:B:286:ASN:HD21	1:B:618:ILE:H	1.50	0.55
1:L:324:VAL:HB	1:L:333:ILE:HG23	1.88	0.55
1:F:658:PRO:HG2	1:G:250:PRO:HB3	2.01	0.55
1:T:423:SER:CB	1:T:425:TYR:CE2	2.90	0.55
1:O:267:ALA:O	1:O:268:SER:CB	2.55	0.55
1:I:299:ARG:NH1	1:W:690:GLU:OE2	111.18	0.55
1:A:289:HIS:CD2	1:A:365:PRO:HG3	2.42	0.55
1:I:626:ASP:H	1:X:608:GLN:NE2	2.05	0.55
1:E:246:THR:HG23	1:E:678:GLN:HE21	1.70	0.55
1:L:423:SER:HB2	1:L:425:TYR:CE2	2.41	0.55
1:N:621:LYS:HB2	1:N:643:PRO:HG3	1.88	0.55
1:G:299:ARG:NH1	1:G:690:GLU:OE2	17.78	0.55
1:G:578:GLY:O	1:G:596:VAL:HG12	2.10	0.55
1:N:321:VAL:HG11	1:N:339:SER:HB3	1.89	0.55
1:A:475:PRO:HA	1:Z:519:ASN:CB	145.02	0.55
1:I:432:ASP:O	1:I:435:MET:HE3	2.07	0.55
1:V:432:ASP:O	1:V:435:MET:HE3	2.07	0.55
1:C:436:ASN:H	1:O:359:HIS:CE1	152.26	0.55
1:G:282:TYR:CE2	1:G:374:PRO:HB2	2.47	0.55
1:Z:324:VAL:HB	1:Z:333:ILE:HG23	1.97	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:4:701:TYR:CD2	1:4:701:TYR:C	2.80	0.55
1:C:611:ASP:OD1	1:C:730:ARG:HG3	2.07	0.55
1:A:498:ASN:HD21	1:W:457:GLN:HB3	1.72	0.55
1:I:532:ASP:OD1	1:I:564:GLU:OE2	2.24	0.55
1:T:609:ASP:O	1:T:730:ARG:NH2	2.43	0.55
1:S:693:LYS:HG3	1:6:399:PHE:CZ	2.41	0.55
1:A:487:GLN:HE22	1:W:585:GLN:H	1.54	0.55
1:B:725:ARG:HB2	1:B:726:PRO:HD2	1.91	0.55
1:A:690:GLU:OE2	1:O:299:ARG:NH1	149.71	0.55
1:N:444:TYR:CZ	1:N:465:ARG:HB3	2.40	0.55
1:D:419:VAL:HG11	1:D:640:LEU:CD2	2.38	0.55
1:G:566:ILE:HG13	1:G:570:ASN:HB2	2.05	0.55
1:3:312:LEU:HD12	1:3:313:ASN:H	1.72	0.55
1:T:435:MET:HG2	1:T:474:GLN:OE1	2.09	0.55
1:M:449:THR:HG21	1:T:501:PHE:H	177.81	0.55
1:P:270:ASP:O	1:V:472:SER:HB3	196.00	0.55
1:D:437:PRO:HB3	1:W:379:LEU:HD11	165.75	0.55
1:E:322:LYS:O	1:E:673:GLN:HB2	2.16	0.55
1:L:270:ASP:O	1:T:472:SER:HB3	85.10	0.55
1:Y:532:ASP:OD2	1:Y:562:ASP:OD1	2.25	0.55
1:C:527:HIS:CE1	1:C:564:GLU:CD	2.80	0.55
1:E:267:ALA:O	1:E:268:SER:HB3	2.13	0.55
1:P:399:PHE:CE2	1:V:693:LYS:HG3	151.12	0.55
1:U:297:TRP:CD1	1:U:301:ILE:HD11	2.42	0.55
1:V:607:TRP:HD1	1:V:608:GLN:O	1.90	0.55
1:4:267:ALA:O	1:4:268:SER:CB	2.54	0.55
1:J:384:GLY:O	1:J:386:GLN:N	2.40	0.55
1:C:626:ASP:H	1:R:608:GLN:NE2	203.92	0.55
1:U:246:THR:HG23	1:U:678:GLN:NE2	2.22	0.55
1:B:623:PRO:HB3	1:P:736:LEU:HD22	177.16	0.55
1:M:648:LEU:N	1:M:648:LEU:HD22	2.34	0.55
1:K:449:THR:OG1	1:T:501:PHE:HE2	1.87	0.55
1:Y:551:SER:CA	1:Z:464:SER:HB3	2.30	0.55
1:A:393:PHE:N	1:Q:696:ASN:HD21	185.01	0.55
1:D:449:THR:HG21	1:Q:501:PHE:H	256.76	0.55
1:R:432:ASP:O	1:R:435:MET:HE3	2.31	0.55
1:Y:270:ASP:O	1:Z:472:SER:HB3	2.07	0.55
1:A:245:ARG:NE	1:A:367:PRO:HA	2.22	0.55
1:K:519:ASN:O	1:K:521:GLY:N	2.45	0.55
1:7:519:ASN:HB3	1:7:520:PRO:CD	2.33	0.55
1:5:395:CYS:SG	1:5:397:GLU:HG2	2.47	0.55
1:X:527:HIS:CE1	1:X:564:GLU:CD	2.84	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:324:VAL:HB	1:X:333:ILE:HG23	1.88	0.55
1:Z:499:SER:HA	1:O:450:GLN:OE1	2.07	0.55
1:Q:493:LYS:HE3	1:Z:460:ASP:HA	148.91	0.55
1:I:562:ASP:CG	1:I:564:GLU:HG3	2.27	0.55
1:V:272:HIS:HB3	1:V:384:GLY:HA2	1.89	0.55
1:J:423:SER:CB	1:J:425:TYR:CE2	2.90	0.55
1:L:621:LYS:HB2	1:L:643:PRO:HG3	2.00	0.55
1:C:666:LYS:NZ	1:D:719:GLY:O	2.51	0.55
1:L:648:LEU:N	1:L:648:LEU:HD22	2.24	0.55
1:R:247:TRP:HB2	1:R:373:ILE:HD11	2.01	0.55
1:A:695:TRP:CE2	1:F:294:PRO:HD2	2.42	0.55
1:B:500:ASN:HA	1:P:449:THR:CG2	220.87	0.54
1:D:405:ARG:H	1:D:408:ASN:ND2	2.04	0.54
1:I:449:THR:HG21	1:I:501:PHE:CE2	2.41	0.54
1:O:432:ASP:O	1:O:435:MET:HE3	2.06	0.54
1:Z:509:TYR:CD1	1:Z:518:ILE:HD13	2.39	0.54
1:M:487:GLN:NE2	1:S:585:GLN:H	203.29	0.54
1:S:532:ASP:OD1	1:S:564:GLU:OE2	2.25	0.54
1:4:519:ASN:HB3	1:4:520:PRO:CD	2.36	0.54
1:S:267:ALA:O	1:S:268:SER:HB3	2.08	0.54
1:U:517:ILE:HD11	1:U:538:SER:CB	2.40	0.54
1:F:486:GLN:HE22	1:F:539:GLY:N	2.08	0.54
1:A:395:CYS:SG	1:A:397:GLU:HG2	2.47	0.54
1:3:701:TYR:C	1:3:701:TYR:CD2	2.81	0.54
1:Z:322:LYS:O	1:Z:673:GLN:HB2	2.06	0.54
1:O:562:ASP:CG	1:O:564:GLU:HG3	2.27	0.54
1:U:267:ALA:O	1:U:268:SER:CB	2.56	0.54
1:I:399:PHE:CZ	1:X:693:LYS:HG3	2.42	0.54
1:Z:426:ALA:O	1:Z:733:THR:HA	2.07	0.54
1:N:529:ASP:H	1:5:512:ASN:HD21	217.24	0.54
1:N:246:THR:HG23	1:N:678:GLN:NE2	2.21	0.54
1:4:355:LEU:HD23	1:4:646:GLN:HG2	1.89	0.54
1:G:398:TYR:OH	1:H:296:ASP:OD1	2.30	0.54
1:M:287:ARG:HD2	1:6:442:TYR:CZ	137.41	0.54
1:A:419:VAL:HG11	1:A:640:LEU:CD2	2.46	0.54
1:Y:247:TRP:HB2	1:Y:373:ILE:HD11	1.89	0.54
1:A:598:VAL:HG23	1:W:580:VAL:HG11	1.89	0.54
1:E:566:ILE:HG13	1:E:570:ASN:HB2	1.89	0.54
1:R:355:LEU:HD23	1:R:646:GLN:HG2	1.98	0.54
1:L:551:SER:CA	1:T:464:SER:HB3	65.68	0.54
1:P:696:ASN:H	1:P:696:ASN:HD22	1.58	0.54
1:F:501:PHE:H	1:G:449:THR:HG21	95.82	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:449:THR:HG21	1:W:501:PHE:H	1.72	0.54
1:V:564:GLU:O	1:V:567:LYS:HG3	2.07	0.54
1:N:449:THR:HG21	1:5:501:PHE:H	254.42	0.54
1:Y:379:LEU:HD13	1:Z:437:PRO:HD3	1.89	0.54
1:C:437:PRO:HD3	1:O:379:LEU:HD13	160.19	0.54
1:K:473:VAL:HA	1:T:517:ILE:CG2	2.37	0.54
1:D:366:PHE:CE2	1:D:368:ALA:HB3	2.41	0.54
1:L:297:TRP:CD1	1:L:301:ILE:HD11	2.42	0.54
1:N:441:GLN:OE1	1:N:475:PRO:HD2	2.07	0.54
1:M:517:ILE:CG2	1:6:473:VAL:HA	172.24	0.54
1:M:508:LYS:HA	1:M:518:ILE:HG12	1.93	0.54
1:I:527:HIS:CE1	1:I:532:ASP:OD1	2.67	0.54
1:O:267:ALA:O	1:O:268:SER:HB3	2.06	0.54
1:F:289:HIS:CE1	1:F:365:PRO:HG3	2.43	0.54
1:A:265:THR:HG23	1:A:267:ALA:H	1.74	0.54
1:Z:289:HIS:CD2	1:Z:365:PRO:HG3	2.59	0.54
1:2:611:ASP:OD2	1:2:612:VAL:N	2.40	0.54
1:1:527:HIS:CE1	1:1:564:GLU:CD	2.81	0.54
1:M:398:TYR:OH	1:N:296:ASP:OD1	2.24	0.54
1:1:355:LEU:HD23	1:1:646:GLN:HG2	1.89	0.54
1:E:622:ILE:HD12	1:E:631:PRO:HB2	1.88	0.54
1:4:444:TYR:CZ	1:4:465:ARG:HB3	2.43	0.54
1:F:419:VAL:HG11	1:F:640:LEU:CD2	2.38	0.54
1:Q:449:THR:HG21	1:U:501:PHE:H	127.75	0.54
1:Q:696:ASN:HD21	1:U:393:PHE:N	133.39	0.54
1:D:449:THR:OG1	1:Q:501:PHE:HE2	257.59	0.54
1:7:501:PHE:HA	1:7:504:THR:HG22	1.88	0.54
1:C:270:ASP:O	1:X:472:SER:HB3	179.42	0.54
1:A:719:GLY:O	1:E:666:LYS:NZ	2.40	0.54
1:O:322:LYS:O	1:O:673:GLN:HB2	2.06	0.54
1:H:512:ASN:HD21	1:2:529:ASP:H	1.54	0.54
1:S:512:ASN:HD21	1:T:529:ASP:H	41.22	0.54
1:H:626:ASP:OD2	1:2:423:SER:HB3	2.07	0.54
1:L:399:PHE:CZ	1:U:693:LYS:HG3	142.93	0.54
1:Y:446:LEU:HD13	1:Y:463:PHE:CE2	2.41	0.54
1:C:399:PHE:CE2	1:X:693:LYS:HG3	128.29	0.54
1:H:690:GLU:OE2	1:4:299:ARG:NH1	2.40	0.54
1:Z:658:PRO:HG2	1:O:250:PRO:HB3	85.06	0.54
1:K:725:ARG:HB2	1:K:726:PRO:HD2	1.99	0.54
1:F:498:ASN:O	1:F:499:SER:CB	2.55	0.54
1:3:246:THR:HG23	1:3:678:GLN:HE21	1.73	0.54
1:L:246:THR:HG23	1:L:678:GLN:HE21	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:700:GLN:HA	1:Y:700:GLN:HE21	1.89	0.54
1:Q:294:PRO:HB2	1:V:697:PRO:HD3	157.80	0.54
1:Y:444:TYR:CZ	1:Y:465:ARG:HB3	2.42	0.54
1:R:289:HIS:CE1	1:R:365:PRO:HG3	2.42	0.54
1:E:449:THR:HG21	1:N:501:PHE:H	248.51	0.54
1:K:286:ASN:HD21	1:K:618:ILE:N	2.26	0.54
1:J:359:HIS:CE1	1:V:436:ASN:H	129.92	0.54
1:W:435:MET:HG2	1:W:474:GLN:OE1	2.17	0.54
1:W:486:GLN:NE2	1:W:538:SER:H	2.07	0.54
1:J:247:TRP:HB3	1:J:371:PHE:CE1	2.42	0.54
1:H:509:TYR:HD1	1:H:518:ILE:CD1	2.18	0.54
1:S:265:THR:HG23	1:S:267:ALA:H	1.84	0.54
1:B:509:TYR:CD1	1:B:518:ILE:HD13	2.38	0.54
1:O:509:TYR:HB3	1:O:518:ILE:HD11	2.02	0.54
1:B:512:ASN:HD21	1:P:529:ASP:H	204.21	0.54
1:4:562:ASP:CG	1:4:564:GLU:HG3	2.27	0.54
1:R:322:LYS:O	1:R:673:GLN:HB2	2.08	0.54
1:E:297:TRP:CD1	1:E:301:ILE:HD11	2.44	0.54
1:D:527:HIS:NE2	1:D:564:GLU:OE2	2.40	0.54
1:L:399:PHE:CE2	1:T:693:LYS:HG3	86.89	0.54
1:Q:267:ALA:O	1:Q:268:SER:CB	2.55	0.54
1:R:321:VAL:HG11	1:R:339:SER:CB	2.44	0.54
1:C:399:PHE:CE2	1:R:693:LYS:HG3	187.97	0.54
1:M:282:TYR:CE2	1:M:374:PRO:HB2	2.42	0.54
1:R:282:TYR:CE2	1:R:374:PRO:HB2	2.43	0.54
1:B:355:LEU:HD23	1:B:646:GLN:HG2	1.88	0.54
1:3:247:TRP:HB2	1:3:373:ILE:HD11	1.89	0.54
1:Q:321:VAL:HG11	1:Q:339:SER:HB3	1.88	0.54
1:3:402:GLN:HG3	1:4:227:ASN:HD21	1.72	0.54
1:I:720:LEU:O	1:I:722:THR:HG22	2.08	0.54
1:Z:536:PRO:HG3	1:Z:573:ALA:HB3	1.89	0.54
1:J:218:ALA:HB1	1:K:223:ASN:OD1	173.41	0.54
1:J:444:TYR:CZ	1:J:465:ARG:HB3	2.43	0.54
1:L:446:LEU:HD13	1:L:463:PHE:CE2	2.43	0.54
1:K:355:LEU:HD23	1:K:646:GLN:HG2	1.89	0.54
1:O:309:PRO:HB2	1:O:416:PHE:CD2	2.42	0.54
1:B:501:PHE:H	1:O:449:THR:HG21	218.94	0.54
1:I:501:PHE:H	1:X:449:THR:HG21	1.72	0.54
1:1:509:TYR:HD1	1:1:518:ILE:CD1	2.18	0.54
1:B:442:TYR:CZ	1:P:287:ARG:HD2	183.03	0.54
1:D:473:VAL:HA	1:Q:517:ILE:CG2	234.77	0.54
1:C:270:ASP:O	1:R:472:SER:HB3	237.95	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:322:LYS:HB2	1:E:674:TYR:CE1	2.43	0.54
1:B:527:HIS:NE2	1:B:564:GLU:CD	2.73	0.54
1:H:366:PHE:CE2	1:H:368:ALA:HB3	2.44	0.54
1:A:324:VAL:HB	1:A:333:ILE:HG23	1.91	0.54
1:Q:536:PRO:HG3	1:Q:573:ALA:HB3	2.00	0.54
1:W:297:TRP:CD1	1:W:301:ILE:HD11	2.50	0.54
1:I:527:HIS:NE2	1:I:564:GLU:CD	2.61	0.54
1:E:498:ASN:HD21	1:F:457:GLN:HB3	1.73	0.54
1:2:527:HIS:CE1	1:2:564:GLU:CD	2.81	0.54
1:Z:265:THR:HG23	1:Z:267:ALA:H	1.79	0.54
1:T:267:ALA:O	1:T:268:SER:HB3	2.07	0.54
1:F:228:TRP:O	1:J:400:PRO:HA	2.08	0.54
1:I:280:TRP:CE2	1:I:650:LYS:HD2	2.42	0.54
1:B:555:LEU:HD23	1:B:555:LEU:O	2.07	0.54
1:V:444:TYR:CZ	1:V:465:ARG:HB3	2.43	0.54
1:X:615:GLN:HE22	1:X:726:PRO:HA	1.71	0.54
1:T:324:VAL:HB	1:T:333:ILE:HG23	1.89	0.54
1:L:289:HIS:CE1	1:L:365:PRO:HG3	2.42	0.54
1:L:500:ASN:HA	1:U:449:THR:CG2	195.34	0.54
1:E:501:PHE:CA	1:E:504:THR:HG22	2.38	0.54
1:I:517:ILE:CG2	1:J:473:VAL:HA	75.90	0.54
1:D:442:TYR:CZ	1:Q:287:ARG:HD2	205.72	0.54
1:Q:486:GLN:HE22	1:Q:539:GLY:N	2.13	0.54
1:U:486:GLN:NE2	1:U:538:SER:H	2.04	0.54
1:D:247:TRP:HB2	1:D:373:ILE:HD11	1.88	0.54
1:E:527:HIS:CE1	1:E:564:GLU:CD	2.81	0.54
1:G:509:TYR:CD1	1:G:518:ILE:HD13	2.38	0.54
1:F:395:CYS:SG	1:F:397:GLU:HG2	2.48	0.54
1:6:297:TRP:CD1	1:6:301:ILE:HD11	2.43	0.54
1:U:527:HIS:CE1	1:U:532:ASP:OD1	2.61	0.54
1:J:450:GLN:OE1	1:W:499:SER:HA	2.08	0.54
1:L:493:LYS:HE3	1:U:460:ASP:HA	191.76	0.54
1:W:423:SER:HB2	1:W:425:TYR:CE2	2.42	0.54
1:H:299:ARG:NH1	1:4:690:GLU:OE2	2.41	0.54
1:O:282:TYR:CE2	1:O:374:PRO:HB2	2.42	0.54
1:H:287:ARG:HD2	1:2:442:TYR:CZ	2.43	0.54
1:B:623:PRO:HB3	1:O:736:LEU:HD22	165.68	0.54
1:L:246:THR:HG23	1:L:678:GLN:NE2	2.22	0.54
1:Z:621:LYS:HB2	1:Z:643:PRO:HG3	1.95	0.54
1:A:247:TRP:HB3	1:A:371:PHE:CE1	2.42	0.54
1:A:247:TRP:HB2	1:A:373:ILE:HD11	1.88	0.54
1:Y:402:GLN:HG3	1:Z:227:ASN:HD21	58.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:698:GLU:OE1	1:2:733:THR:HG23	2.07	0.54
1:G:219:ASP:O	1:G:220:GLY:O	2.34	0.54
1:A:501:PHE:CA	1:A:504:THR:HG22	2.38	0.54
1:I:585:GLN:H	1:1:487:GLN:HE22	1.53	0.54
1:A:438:LEU:HD11	1:J:277:SER:CB	2.37	0.54
1:A:442:TYR:CZ	1:Z:287:ARG:HD2	139.04	0.54
1:Q:436:ASN:H	1:U:359:HIS:CE1	114.67	0.54
1:E:367:PRO:HB2	1:I:397:GLU:HB2	104.13	0.54
1:F:519:ASN:O	1:F:521:GLY:N	2.40	0.54
1:G:542:ILE:CD1	1:G:560:ILE:HG13	2.34	0.54
1:P:441:GLN:HE22	1:P:474:GLN:HB3	1.89	0.54
1:G:270:ASP:O	1:4:472:SER:HB3	2.07	0.54
1:F:438:LEU:HD11	1:4:277:SER:HB2	144.70	0.54
1:D:324:VAL:HB	1:D:333:ILE:HG23	1.90	0.54
1:7:267:ALA:O	1:7:268:SER:HB3	2.07	0.54
1:D:527:HIS:CE1	1:D:532:ASP:OD1	2.61	0.54
1:G:527:HIS:CE1	1:G:564:GLU:CD	2.81	0.54
1:2:701:TYR:C	1:2:701:TYR:CD2	2.81	0.54
1:X:609:ASP:O	1:X:730:ARG:NH2	2.35	0.54
1:G:611:ASP:HB2	1:G:730:ARG:NH1	2.43	0.54
1:E:512:ASN:HD21	1:5:529:ASP:H	138.11	0.54
1:6:247:TRP:HB3	1:6:371:PHE:CE1	2.42	0.54
1:M:599:MET:HE3	1:M:602:LEU:CD1	2.48	0.54
1:3:707:LYS:HD2	1:7:386:GLN:NE2	2.23	0.54
1:L:321:VAL:HG11	1:L:339:SER:HB3	2.01	0.54
1:G:321:VAL:HG11	1:G:339:SER:HB3	1.90	0.54
1:K:634:LEU:HB2	1:L:477:ASN:O	71.95	0.54
1:Z:405:ARG:H	1:Z:408:ASN:ND2	2.09	0.54
1:7:532:ASP:OD2	1:7:562:ASP:OD1	2.26	0.54
1:I:438:LEU:HD11	1:1:277:SER:HB2	1.89	0.54
1:2:432:ASP:O	1:2:435:MET:HE3	2.08	0.54
1:3:519:ASN:O	1:3:520:PRO:C	2.41	0.54
1:M:501:PHE:H	1:6:449:THR:HG21	184.33	0.54
1:A:297:TRP:CD1	1:A:301:ILE:CD1	2.91	0.54
1:G:301:ILE:HG12	1:G:729:THR:HA	2.03	0.54
1:Y:324:VAL:HB	1:Y:333:ILE:HG23	2.01	0.54
1:2:509:TYR:HD1	1:2:518:ILE:CD1	2.20	0.54
1:V:282:TYR:CE2	1:V:374:PRO:HB2	2.44	0.54
1:J:457:GLN:HB3	1:W:498:ASN:HD21	1.71	0.54
1:S:622:ILE:CD1	1:S:631:PRO:HB2	2.38	0.54
1:H:287:ARG:HD2	1:W:442:TYR:CZ	116.10	0.54
1:O:402:GLN:HG3	1:P:227:ASN:HD21	58.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:736:LEU:HD22	1:5:623:PRO:HB3	194.36	0.54
1:N:247:TRP:HB3	1:N:371:PHE:CE1	2.56	0.54
1:O:480:PRO:O	1:O:605:MET:HG2	2.31	0.54
1:Y:419:VAL:HG11	1:Y:640:LEU:CD2	2.39	0.54
1:S:690:GLU:OE2	1:7:299:ARG:NH1	2.41	0.54
1:D:443:LEU:HD11	1:Q:541:MET:HE3	216.94	0.54
1:F:321:VAL:HG11	1:F:339:SER:HB3	1.88	0.54
1:C:449:THR:OG1	1:N:501:PHE:HE2	123.61	0.54
1:B:473:VAL:HA	1:V:517:ILE:CG2	2.35	0.54
1:Q:517:ILE:HD11	1:Q:538:SER:CB	2.37	0.54
1:6:519:ASN:O	1:6:520:PRO:C	2.40	0.54
1:6:520:PRO:HG2	1:6:635:MET:HG2	1.89	0.54
1:S:267:ALA:O	1:S:268:SER:CB	2.60	0.54
1:S:517:ILE:CG2	1:T:473:VAL:HA	75.77	0.54
1:D:247:TRP:HB3	1:D:371:PHE:CE1	2.43	0.54
1:B:509:TYR:HD1	1:B:518:ILE:CD1	2.19	0.54
1:F:486:GLN:NE2	1:F:538:SER:H	2.08	0.54
1:Q:397:GLU:HB2	1:R:367:PRO:HB2	1.90	0.54
1:Q:608:GLN:HE22	1:U:626:ASP:H	124.46	0.54
1:S:399:PHE:CZ	1:T:693:LYS:HG3	38.17	0.54
1:H:321:VAL:HG11	1:H:339:SER:CB	2.38	0.54
1:S:257:TYR:O	1:T:719:GLY:HA2	2.08	0.54
1:K:484:TYR:CE1	1:L:599:MET:HE2	77.90	0.54
1:M:541:MET:HE3	1:6:443:LEU:HD11	149.28	0.54
1:I:430:SER:HA	1:I:568:ALA:HB1	1.89	0.54
1:Z:566:ILE:HG13	1:Z:570:ASN:HB2	1.98	0.54
1:3:444:TYR:CZ	1:3:465:ARG:HB3	2.43	0.54
1:K:289:HIS:CE1	1:K:365:PRO:HG3	2.43	0.54
1:B:502:THR:O	1:B:506:ALA:HB2	2.08	0.54
1:C:449:THR:HG21	1:O:501:PHE:H	184.37	0.54
1:O:502:THR:O	1:O:506:ALA:HB2	2.08	0.54
1:A:224:ALA:H	1:Z:408:ASN:ND2	155.66	0.54
1:N:405:ARG:H	1:N:408:ASN:ND2	1.98	0.54
1:1:502:THR:O	1:1:506:ALA:HB2	2.09	0.54
1:B:449:THR:CG2	1:V:500:ASN:HA	2.33	0.54
1:J:517:ILE:HD11	1:J:538:SER:CB	2.38	0.54
1:D:436:ASN:H	1:W:359:HIS:CE1	158.66	0.54
1:A:719:GLY:HA2	1:Z:257:TYR:O	192.58	0.54
1:U:367:PRO:HB2	1:Y:397:GLU:HB2	1.88	0.54
1:O:519:ASN:O	1:O:521:GLY:N	2.43	0.54
1:S:509:TYR:HD1	1:S:518:ILE:CD1	2.25	0.54
1:K:359:HIS:CE1	1:L:436:ASN:HB3	67.35	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:359:HIS:CE1	1:L:436:ASN:H	66.36	0.54
1:7:322:LYS:HB2	1:7:674:TYR:CE1	2.43	0.54
1:X:532:ASP:OD1	1:X:564:GLU:OE2	2.26	0.54
1:B:626:ASP:H	1:P:608:GLN:HE22	172.84	0.54
1:V:611:ASP:HB2	1:V:730:ARG:NH1	2.23	0.54
1:1:322:LYS:HB2	1:1:674:TYR:CE1	2.43	0.54
1:K:442:TYR:CZ	1:T:287:ARG:HD2	2.43	0.54
1:B:289:HIS:CD2	1:B:365:PRO:HG3	2.43	0.54
1:U:725:ARG:HB2	1:U:726:PRO:HD2	1.90	0.54
1:S:432:ASP:O	1:S:435:MET:HE3	2.26	0.54
1:M:626:ASP:OD2	1:S:423:SER:HB3	170.20	0.54
1:H:621:LYS:HB2	1:H:643:PRO:HG3	2.04	0.54
1:Y:223:ASN:OD1	1:2:218:ALA:HB1	87.98	0.54
1:D:360:GLN:NE2	1:U:440:ASP:HB2	186.51	0.54
1:2:399:PHE:CZ	1:3:693:LYS:HG3	2.43	0.54
1:F:238:ARG:HH11	1:F:238:ARG:HG2	1.72	0.54
1:P:355:LEU:HD23	1:P:646:GLN:HG2	1.96	0.54
1:R:419:VAL:HG11	1:R:640:LEU:CD2	2.39	0.54
1:I:312:LEU:HD12	1:I:313:ASN:H	1.78	0.54
1:G:444:TYR:CZ	1:G:465:ARG:HB3	2.43	0.54
1:X:699:VAL:O	1:X:731:TYR:HB3	2.07	0.54
1:R:440:ASP:HB2	1:Y:360:GLN:NE2	125.52	0.54
1:D:502:THR:O	1:D:506:ALA:HB2	2.07	0.53
1:X:446:LEU:HD13	1:X:463:PHE:CE2	2.46	0.53
1:A:449:THR:HG22	1:Z:502:THR:HG23	160.88	0.53
1:V:486:GLN:NE2	1:V:538:SER:H	2.04	0.53
1:O:486:GLN:HE22	1:O:538:SER:H	1.55	0.53
1:F:519:ASN:CB	1:G:475:PRO:HA	78.56	0.53
1:F:324:VAL:HB	1:F:333:ILE:HG23	1.94	0.53
1:X:289:HIS:CE1	1:X:365:PRO:HG3	2.54	0.53
1:N:508:LYS:HA	1:N:518:ILE:HG12	1.94	0.53
1:Y:527:HIS:HE2	1:Y:564:GLU:CD	2.12	0.53
1:M:517:ILE:HD11	1:M:538:SER:CB	2.39	0.53
1:A:277:SER:HB2	1:W:438:LEU:HD11	1.89	0.53
1:A:562:ASP:CG	1:A:564:GLU:HG3	2.36	0.53
1:W:622:ILE:CD1	1:W:631:PRO:HB2	2.38	0.53
1:Q:262:SER:OG	1:Q:272:HIS:HD2	2.00	0.53
1:S:438:LEU:HD11	1:6:277:SER:HB2	1.90	0.53
1:I:426:ALA:O	1:I:733:THR:HA	2.19	0.53
1:H:442:TYR:CZ	1:3:287:ARG:HD2	2.43	0.53
1:N:529:ASP:H	1:R:512:ASN:HD21	202.43	0.53
1:C:624:HIS:O	1:X:427:HIS:HE1	152.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:609:ASP:O	1:6:730:ARG:NH2	2.38	0.53
1:2:621:LYS:HB2	1:2:643:PRO:HG3	1.89	0.53
1:H:444:TYR:CZ	1:H:465:ARG:HB3	2.56	0.53
1:I:444:TYR:CZ	1:I:465:ARG:HB3	2.43	0.53
1:6:355:LEU:HD23	1:6:646:GLN:HG2	1.89	0.53
1:U:503:TRP:CD1	1:U:503:TRP:C	2.82	0.53
1:K:536:PRO:HG3	1:K:573:ALA:HB3	1.93	0.53
1:Q:658:PRO:HG2	1:R:250:PRO:HB3	1.91	0.53
1:C:551:SER:HA	1:X:464:SER:CB	180.20	0.53
1:Q:501:PHE:HE2	1:Z:449:THR:OG1	135.11	0.53
1:P:517:ILE:HD11	1:P:538:SER:CB	2.43	0.53
1:C:287:ARG:HD2	1:R:442:TYR:CZ	205.84	0.53
1:L:562:ASP:CG	1:L:564:GLU:HG3	2.31	0.53
1:Y:564:GLU:O	1:Y:567:LYS:HG3	2.08	0.53
1:Z:562:ASP:CG	1:Z:564:GLU:HG3	2.28	0.53
1:Z:564:GLU:O	1:Z:567:LYS:HG3	2.07	0.53
1:A:322:LYS:O	1:A:673:GLN:HB2	2.09	0.53
1:E:460:ASP:HA	1:N:493:LYS:HE3	251.43	0.53
1:V:701:TYR:C	1:V:701:TYR:CD2	2.81	0.53
1:P:527:HIS:CE1	1:P:532:ASP:OD1	2.64	0.53
1:H:498:ASN:HD21	1:2:457:GLN:HB3	1.74	0.53
1:M:423:SER:HB2	1:M:425:TYR:CE2	2.49	0.53
1:D:299:ARG:NH1	1:X:690:GLU:OE2	134.14	0.53
1:H:282:TYR:CE2	1:H:374:PRO:HB2	2.43	0.53
1:O:484:TYR:CE1	1:P:599:MET:HE2	2.43	0.53
1:V:289:HIS:CG	1:V:365:PRO:HG3	2.42	0.53
1:N:423:SER:CB	1:N:425:TYR:CE2	2.95	0.53
1:3:282:TYR:CE2	1:3:374:PRO:HB2	2.43	0.53
1:4:446:LEU:HD13	1:4:463:PHE:CE2	2.43	0.53
1:B:578:GLY:O	1:B:596:VAL:HG12	2.19	0.53
1:1:321:VAL:HG11	1:1:339:SER:HB3	1.91	0.53
1:F:246:THR:HG23	1:F:678:GLN:HE21	1.73	0.53
1:Y:577:PHE:CE1	1:Y:599:MET:HG2	2.44	0.53
1:W:666:LYS:NZ	1:X:719:GLY:O	2.41	0.53
1:X:444:TYR:CZ	1:X:465:ARG:HB3	2.43	0.53
1:G:254:ASN:O	1:G:255:HIS:HB2	2.28	0.53
1:7:577:PHE:CE1	1:7:599:MET:HG2	2.43	0.53
1:K:666:LYS:NZ	1:L:719:GLY:O	2.51	0.53
1:R:464:SER:HB3	1:Y:551:SER:CA	137.18	0.53
1:Q:696:ASN:H	1:Q:696:ASN:HD22	1.65	0.53
1:O:449:THR:HG21	1:X:501:PHE:H	200.72	0.53
1:R:286:ASN:HD21	1:R:618:ILE:N	2.06	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:701:TYR:C	1:Z:701:TYR:CD2	2.82	0.53
1:N:449:THR:CG2	1:R:500:ASN:HA	211.87	0.53
1:M:432:ASP:O	1:M:435:MET:HE3	2.18	0.53
1:E:282:TYR:CE2	1:E:374:PRO:HB2	2.43	0.53
1:M:527:HIS:CE1	1:M:532:ASP:OD1	2.61	0.53
1:C:435:MET:HG2	1:C:474:GLN:OE1	2.12	0.53
1:E:435:MET:HG2	1:E:474:GLN:OE1	2.07	0.53
1:B:486:GLN:NE2	1:B:538:SER:H	2.06	0.53
1:Q:423:SER:HB2	1:Q:425:TYR:CE2	2.55	0.53
1:G:312:LEU:HD12	1:G:313:ASN:N	2.26	0.53
1:D:608:GLN:NE2	1:W:626:ASP:H	130.41	0.53
1:M:301:ILE:HG12	1:M:729:THR:HA	2.03	0.53
1:P:725:ARG:HB2	1:P:726:PRO:HD2	1.94	0.53
1:7:609:ASP:OD2	1:7:630:HIS:HE1	1.91	0.53
1:I:577:PHE:CE1	1:I:599:MET:HG2	2.43	0.53
1:H:624:HIS:O	1:2:427:HIS:HE1	1.90	0.53
1:E:598:VAL:HG23	1:F:580:VAL:HG11	1.89	0.53
1:V:247:TRP:HB2	1:V:373:ILE:HD11	1.92	0.53
1:1:621:LYS:HB2	1:1:643:PRO:HG3	1.91	0.53
1:K:246:THR:HG23	1:K:678:GLN:HE21	1.76	0.53
1:C:578:GLY:O	1:C:596:VAL:HG12	2.08	0.53
1:A:502:THR:HG23	1:Q:449:THR:HG22	217.65	0.53
1:I:502:THR:HG23	1:J:449:THR:HG22	94.52	0.53
1:V:527:HIS:CE1	1:V:564:GLU:CD	2.89	0.53
1:E:487:GLN:HE22	1:F:585:GLN:H	1.57	0.53
1:P:509:TYR:CD1	1:P:518:ILE:HD13	2.35	0.53
1:I:486:GLN:HE22	1:I:538:SER:H	1.63	0.53
1:R:472:SER:HB3	1:Y:270:ASP:O	138.41	0.53
1:Y:395:CYS:SG	1:Y:397:GLU:HG2	2.54	0.53
1:E:517:ILE:HG22	1:5:472:SER:O	133.19	0.53
1:F:473:VAL:HA	1:4:517:ILE:CG2	124.16	0.53
1:C:286:ASN:HD21	1:C:618:ILE:H	1.71	0.53
1:O:725:ARG:HB2	1:O:726:PRO:HD2	2.03	0.53
1:H:270:ASP:O	1:W:472:SER:HB3	136.16	0.53
1:G:517:ILE:HD11	1:G:538:SER:OG	2.30	0.53
1:3:553:THR:HG23	1:3:557:ASN:CB	2.38	0.53
1:Y:475:PRO:HA	1:7:519:ASN:CB	129.70	0.53
1:W:397:GLU:HG3	1:X:368:ALA:HB2	2.01	0.53
1:R:397:GLU:HB2	1:S:367:PRO:HB2	2.01	0.53
1:H:438:LEU:HD11	1:3:277:SER:HB2	1.90	0.53
1:X:564:GLU:O	1:X:567:LYS:HG3	2.08	0.53
1:Y:701:TYR:C	1:Y:701:TYR:CD2	2.82	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:499:SER:HA	1:R:450:GLN:OE1	268.60	0.53
1:A:399:PHE:CZ	1:Q:693:LYS:HG3	167.74	0.53
1:Q:384:GLY:C	1:Q:386:GLN:H	2.23	0.53
1:D:267:ALA:O	1:D:268:SER:CB	2.64	0.53
1:X:426:ALA:O	1:X:733:THR:HA	2.08	0.53
1:J:287:ARG:HG2	1:J:289:HIS:NE2	2.41	0.53
1:F:223:ASN:OD1	1:J:218:ALA:HB1	2.09	0.53
1:2:634:LEU:HB2	1:3:477:ASN:O	2.08	0.53
1:C:566:ILE:HG13	1:C:570:ASN:HB2	1.90	0.53
1:2:720:LEU:O	1:2:722:THR:HG22	2.08	0.53
1:5:698:GLU:OE1	1:5:733:THR:HG23	2.09	0.53
1:T:698:GLU:OE1	1:T:733:THR:HG23	2.09	0.53
1:X:551:SER:CA	1:1:464:SER:HB3	2.30	0.53
1:E:449:THR:CG2	1:G:500:ASN:HA	65.59	0.53
1:E:696:ASN:HD21	1:N:393:PHE:N	200.56	0.53
1:R:502:THR:O	1:R:506:ALA:HB2	2.08	0.53
1:Q:509:TYR:HD1	1:Q:518:ILE:CD1	2.21	0.53
1:N:395:CYS:SG	1:N:397:GLU:HG2	2.49	0.53
1:G:359:HIS:CE1	1:4:436:ASN:H	2.26	0.53
1:O:472:SER:HB3	1:X:270:ASP:O	177.78	0.53
1:O:473:VAL:HA	1:X:517:ILE:CG2	180.45	0.53
1:Y:532:ASP:OD1	1:Y:564:GLU:OE2	2.27	0.53
1:Q:289:HIS:ND1	1:Q:365:PRO:HG3	2.23	0.53
1:5:701:TYR:CD2	1:5:701:TYR:C	2.81	0.53
1:M:553:THR:HG23	1:M:557:ASN:CB	2.38	0.53
1:E:607:TRP:HD1	1:E:608:GLN:O	1.91	0.53
1:H:611:ASP:HB2	1:H:730:ARG:NH1	2.23	0.53
1:2:532:ASP:OD1	1:2:564:GLU:OE2	2.27	0.53
1:F:626:ASP:OD2	1:G:423:SER:HB3	38.79	0.53
1:N:725:ARG:HB2	1:N:726:PRO:HD2	2.03	0.53
1:7:607:TRP:HD1	1:7:608:GLN:O	1.91	0.53
1:Y:608:GLN:NE2	1:7:626:ASP:H	112.54	0.53
1:N:355:LEU:HD23	1:N:646:GLN:HG2	1.98	0.53
1:A:305:TRP:CE3	1:A:734:ARG:NH2	2.76	0.53
1:K:440:ASP:HB2	1:U:360:GLN:NE2	196.86	0.53
1:3:502:THR:O	1:3:506:ALA:HB2	2.09	0.53
1:M:472:SER:HB3	1:T:270:ASP:O	153.43	0.53
1:E:472:SER:HB3	1:G:270:ASP:O	85.16	0.53
1:Q:322:LYS:HB2	1:Q:674:TYR:CE1	2.52	0.53
1:5:519:ASN:O	1:5:521:GLY:N	2.42	0.53
1:H:379:LEU:HD11	1:W:437:PRO:HB3	129.43	0.53
1:S:322:LYS:O	1:S:673:GLN:HB2	2.20	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:626:ASP:H	1:H:608:GLN:HE22	149.98	0.53
1:Q:423:SER:CB	1:Q:425:TYR:CE2	3.00	0.53
1:U:383:ASN:O	1:U:384:GLY:O	2.27	0.53
1:N:450:GLN:OE1	1:R:499:SER:HA	221.51	0.53
1:E:599:MET:HE2	1:G:484:TYR:CE1	76.42	0.53
1:A:287:ARG:HD2	1:W:442:TYR:CZ	2.44	0.53
1:T:246:THR:HG23	1:T:678:GLN:NE2	2.26	0.53
1:F:423:SER:HB2	1:F:425:TYR:CE2	2.43	0.53
1:A:649:ILE:HG12	1:A:650:LYS:N	2.24	0.53
1:Y:437:PRO:HB3	1:7:379:LEU:HD11	121.63	0.53
1:O:247:TRP:HB2	1:O:373:ILE:HD11	2.06	0.53
1:V:305:TRP:CE3	1:V:734:ARG:NH2	2.76	0.53
1:M:312:LEU:HD12	1:M:313:ASN:H	1.77	0.53
1:2:541:MET:HE3	1:3:443:LEU:HD11	1.91	0.53
1:3:446:LEU:HD13	1:3:463:PHE:CE2	2.43	0.53
1:J:244:THR:HA	1:J:679:VAL:O	2.09	0.53
1:0:696:ASN:ND2	1:0:696:ASN:H	2.07	0.53
1:V:501:PHE:CA	1:V:504:THR:HG22	2.39	0.53
1:Z:517:ILE:CG2	1:0:473:VAL:HA	2.39	0.53
1:S:449:THR:OG1	1:6:501:PHE:HE2	1.90	0.53
1:F:470:GLY:O	1:F:473:VAL:HG22	2.09	0.53
1:W:527:HIS:NE2	1:W:564:GLU:CD	2.62	0.53
1:7:366:PHE:CE2	1:7:368:ALA:HB3	2.44	0.53
1:F:265:THR:HG23	1:F:267:ALA:H	1.74	0.53
1:H:512:ASN:HD21	1:W:529:ASP:H	138.85	0.53
1:P:498:ASN:O	1:P:499:SER:CB	2.57	0.53
1:I:493:LYS:HE3	1:X:460:ASP:HA	1.91	0.53
1:A:498:ASN:HD21	1:Q:457:GLN:HB3	234.58	0.53
1:T:322:LYS:HB2	1:T:674:TYR:CE1	2.43	0.53
1:W:630:HIS:N	1:W:631:PRO:HD3	2.35	0.53
1:1:286:ASN:HD21	1:1:618:ILE:H	1.56	0.53
1:N:282:TYR:CE2	1:N:374:PRO:HB2	2.43	0.53
1:D:272:HIS:HB3	1:D:384:GLY:HA2	1.95	0.53
1:T:321:VAL:HG11	1:T:339:SER:CB	2.39	0.53
1:K:626:ASP:H	1:L:608:GLN:NE2	44.00	0.53
1:Y:247:TRP:HB3	1:Y:371:PHE:CE1	2.44	0.53
1:P:419:VAL:HG11	1:P:640:LEU:CD2	2.39	0.53
1:B:444:TYR:CZ	1:B:465:ARG:HB3	2.48	0.53
1:W:402:GLN:HG3	1:X:227:ASN:HD21	1.74	0.53
1:G:384:GLY:O	1:G:386:GLN:N	2.41	0.53
1:R:700:GLN:HE21	1:R:700:GLN:HA	1.81	0.53
1:M:484:TYR:CE1	1:6:599:MET:HE2	182.83	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:348:GLU:HB2	1:X:350:GLN:NE2	2.23	0.53
1:1:246:THR:HG23	1:1:678:GLN:HE21	1.73	0.53
1:A:252:TYR:CE1	1:A:375:GLN:HB2	2.43	0.53
1:I:449:THR:HG21	1:1:501:PHE:H	1.74	0.53
1:I:436:ASN:H	1:V:359:HIS:CE1	123.20	0.53
1:C:509:TYR:HD1	1:C:518:ILE:CD1	2.23	0.53
1:I:517:ILE:CG2	1:X:473:VAL:HA	2.38	0.53
1:J:366:PHE:CE2	1:J:368:ALA:HB3	2.43	0.53
1:K:367:PRO:HB2	1:O:397:GLU:HB2	1.90	0.53
1:E:379:LEU:HD11	1:5:437:PRO:HB3	127.95	0.53
1:B:527:HIS:NE2	1:B:564:GLU:OE2	2.50	0.53
1:O:519:ASN:O	1:O:520:PRO:C	2.44	0.53
1:D:245:ARG:NE	1:D:367:PRO:HA	2.38	0.53
1:N:486:GLN:HE22	1:N:539:GLY:N	2.11	0.53
1:P:470:GLY:O	1:P:473:VAL:HG22	2.23	0.53
1:B:301:ILE:HG12	1:B:729:THR:HA	2.06	0.53
1:R:517:ILE:CG2	1:7:473:VAL:HA	2.39	0.53
1:6:397:GLU:HB2	1:7:367:PRO:HB2	1.90	0.53
1:N:701:TYR:CD2	1:N:701:TYR:C	2.82	0.53
1:W:498:ASN:O	1:W:499:SER:CB	2.57	0.53
1:K:265:THR:HG23	1:K:267:ALA:H	1.72	0.53
1:P:312:LEU:HD12	1:P:313:ASN:N	2.24	0.53
1:W:611:ASP:HB2	1:W:730:ARG:NH1	2.23	0.53
1:U:272:HIS:HB3	1:U:384:GLY:HA2	1.90	0.53
1:1:527:HIS:NE2	1:1:564:GLU:OE2	2.38	0.53
1:M:442:TYR:CZ	1:S:287:ARG:HD2	182.96	0.53
1:C:626:ASP:H	1:X:608:GLN:NE2	157.01	0.53
1:D:624:HIS:O	1:H:427:HIS:HE1	149.92	0.53
1:E:623:PRO:HB3	1:5:736:LEU:HD22	118.31	0.53
1:5:426:ALA:O	1:5:733:THR:HA	2.09	0.53
1:5:444:TYR:CZ	1:5:465:ARG:HB3	2.44	0.53
1:2:419:VAL:HG11	1:2:640:LEU:CD2	2.39	0.53
1:C:295:ARG:O	1:C:298:GLN:HB3	2.09	0.53
1:D:408:ASN:ND2	1:Z:224:ALA:H	154.60	0.53
1:W:441:GLN:HE22	1:W:474:GLN:HB3	1.92	0.53
1:O:397:GLU:HB2	1:P:367:PRO:CB	47.92	0.53
1:E:486:GLN:HE22	1:E:538:SER:H	1.57	0.53
1:S:527:HIS:NE2	1:S:564:GLU:CD	2.68	0.53
1:E:532:ASP:OD2	1:E:562:ASP:OD1	2.29	0.53
1:W:532:ASP:OD1	1:W:564:GLU:OE2	2.28	0.53
1:O:322:LYS:HB2	1:O:674:TYR:CE1	2.44	0.53
1:I:553:THR:HG23	1:I:557:ASN:CB	2.44	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:297:TRP:CD1	1:O:301:ILE:HD11	2.55	0.53
1:B:608:GLN:NE2	1:V:626:ASP:H	2.07	0.53
1:D:299:ARG:NH1	1:R:690:GLU:OE2	192.10	0.53
1:J:299:ARG:NH1	1:X:690:GLU:OE2	2.41	0.53
1:J:384:GLY:C	1:J:386:GLN:H	2.12	0.53
1:Y:626:ASP:H	1:Z:608:GLN:HE22	1.57	0.53
1:O:312:LEU:HD12	1:O:313:ASN:N	2.41	0.53
1:O:611:ASP:OD2	1:O:612:VAL:N	2.42	0.53
1:L:536:PRO:HG3	1:L:573:ALA:HB3	1.90	0.53
1:Z:280:TRP:CE2	1:Z:650:LYS:HD2	2.44	0.53
1:3:419:VAL:HG11	1:3:640:LEU:CD2	2.39	0.53
1:I:736:LEU:HD22	1:1:623:PRO:HB3	1.91	0.53
1:O:614:LEU:HD12	1:O:614:LEU:O	2.09	0.53
1:U:419:VAL:HG11	1:U:640:LEU:CD2	2.39	0.53
1:G:487:GLN:NE2	1:4:585:GLN:H	2.07	0.53
1:Y:449:THR:HG21	1:7:501:PHE:H	148.83	0.53
1:A:442:TYR:CD2	1:J:359:HIS:O	2.62	0.53
1:D:473:VAL:HA	1:W:517:ILE:CG2	162.69	0.53
1:I:379:LEU:HD11	1:X:437:PRO:HB3	1.89	0.53
1:B:257:TYR:O	1:C:719:GLY:HA2	2.09	0.53
1:L:270:ASP:O	1:U:472:SER:HB3	181.60	0.53
1:3:286:ASN:HD21	1:3:618:ILE:H	1.56	0.53
1:B:499:SER:HA	1:P:450:GLN:OE1	230.00	0.53
1:Y:297:TRP:CD1	1:Y:301:ILE:HD11	2.43	0.53
1:F:630:HIS:N	1:F:631:PRO:HD3	2.37	0.53
1:F:426:ALA:O	1:F:733:THR:HA	2.09	0.53
1:D:267:ALA:O	1:D:268:SER:HB3	2.13	0.53
1:E:321:VAL:HG11	1:E:339:SER:CB	2.39	0.53
1:I:272:HIS:HB3	1:I:384:GLY:HA2	1.95	0.53
1:U:299:ARG:NH1	1:Z:690:GLU:OE2	2.42	0.53
1:6:444:TYR:CE2	1:6:465:ARG:HB3	2.44	0.53
1:P:423:SER:HB2	1:P:425:TYR:CE2	2.52	0.53
1:6:423:SER:HB2	1:6:425:TYR:CE2	2.43	0.53
1:K:398:TYR:OH	1:L:296:ASP:OD1	2.28	0.53
1:O:444:TYR:CZ	1:O:465:ARG:HB3	2.44	0.53
1:T:355:LEU:HD23	1:T:646:GLN:HG2	1.97	0.53
1:D:634:LEU:HB2	1:H:477:ASN:O	176.78	0.53
1:L:700:GLN:HA	1:L:700:GLN:HE21	1.74	0.53
1:2:700:GLN:HA	1:2:700:GLN:HE21	1.74	0.53
1:V:480:PRO:O	1:V:605:MET:HG2	2.09	0.53
1:N:324:VAL:HB	1:N:333:ILE:HG23	1.91	0.53
1:T:405:ARG:H	1:T:408:ASN:ND2	2.03	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:487:GLN:HE21	1:Q:488:ARG:H	1.74	0.52
1:Y:502:THR:O	1:Y:506:ALA:HB2	2.10	0.52
1:I:475:PRO:HA	1:V:519:ASN:CB	129.75	0.52
1:7:517:ILE:HD11	1:7:538:SER:CB	2.39	0.52
1:F:322:LYS:HB2	1:F:674:TYR:CE1	2.48	0.52
1:B:564:GLU:O	1:B:567:LYS:HG3	2.22	0.52
1:B:536:PRO:HG3	1:B:573:ALA:HB3	1.91	0.52
1:R:322:LYS:HB2	1:R:674:TYR:CE1	2.44	0.52
1:S:472:SER:HB3	1:6:270:ASP:O	2.09	0.52
1:X:536:PRO:HG3	1:X:573:ALA:HB3	1.95	0.52
1:D:630:HIS:N	1:D:631:PRO:HD3	2.24	0.52
1:O:609:ASP:O	1:O:730:ARG:NH2	2.39	0.52
1:T:252:TYR:CE1	1:T:375:GLN:HB2	2.45	0.52
1:G:399:PHE:CZ	1:4:693:LYS:HG3	2.44	0.52
1:0:480:PRO:O	1:0:605:MET:HG2	2.09	0.52
1:0:621:LYS:HB2	1:0:643:PRO:HG3	1.91	0.52
1:Y:566:ILE:HG13	1:Y:570:ASN:HB2	2.02	0.52
1:U:648:LEU:N	1:U:648:LEU:HD22	2.25	0.52
1:C:305:TRP:CE3	1:C:734:ARG:NH2	2.76	0.52
1:H:578:GLY:O	1:H:596:VAL:HG12	2.20	0.52
1:E:449:THR:HG22	1:N:502:THR:HG23	245.39	0.52
1:D:359:HIS:CE1	1:U:436:ASN:H	182.16	0.52
1:B:527:HIS:CE1	1:B:532:ASP:OD1	2.66	0.52
1:T:508:LYS:HA	1:T:518:ILE:HG12	1.92	0.52
1:C:527:HIS:CE1	1:C:532:ASP:OD1	2.72	0.52
1:S:297:TRP:CD1	1:S:301:ILE:HD11	2.43	0.52
1:X:366:PHE:CE2	1:X:368:ALA:HB3	2.44	0.52
1:I:536:PRO:HG3	1:I:573:ALA:HB3	1.90	0.52
1:6:527:HIS:CE1	1:6:564:GLU:CD	2.82	0.52
1:6:517:ILE:HD11	1:6:538:SER:CB	2.39	0.52
1:L:277:SER:HB2	1:T:438:LEU:HD11	89.79	0.52
1:I:493:LYS:HE3	1:J:460:ASP:HA	113.79	0.52
1:D:460:ASP:HA	1:W:493:LYS:HE3	186.54	0.52
1:H:562:ASP:CG	1:H:564:GLU:HG3	2.29	0.52
1:1:267:ALA:O	1:1:268:SER:CB	2.57	0.52
1:C:426:ALA:O	1:C:733:THR:HA	2.09	0.52
1:F:246:THR:HG23	1:F:678:GLN:NE2	2.25	0.52
1:R:577:PHE:CE1	1:R:599:MET:HG2	2.53	0.52
1:U:289:HIS:CE1	1:U:365:PRO:HG3	2.48	0.52
1:V:238:ARG:HG2	1:V:238:ARG:HH11	1.84	0.52
1:K:444:TYR:CZ	1:K:465:ARG:HB3	2.47	0.52
1:4:658:PRO:HG2	1:5:250:PRO:HB3	1.90	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:623:PRO:HB3	1:L:736:LEU:HD22	49.97	0.52
1:T:527:HIS:NE2	1:T:564:GLU:CD	2.62	0.52
1:U:403:MET:HG3	1:V:227:ASN:HA	2.07	0.52
1:K:405:ARG:H	1:K:408:ASN:ND2	2.07	0.52
1:M:475:PRO:HA	1:T:519:ASN:CB	153.07	0.52
1:Q:486:GLN:NE2	1:Q:538:SER:H	2.14	0.52
1:E:508:LYS:HA	1:E:518:ILE:HG12	1.91	0.52
1:X:287:ARG:HG2	1:X:289:HIS:NE2	2.24	0.52
1:L:508:LYS:HA	1:L:518:ILE:HG12	1.90	0.52
1:S:270:ASP:O	1:T:472:SER:HB3	63.39	0.52
1:I:693:LYS:HG3	1:V:399:PHE:CZ	110.76	0.52
1:S:322:LYS:HB2	1:S:674:TYR:CE1	2.47	0.52
1:A:450:GLN:OE1	1:Z:499:SER:HA	169.76	0.52
1:O:626:ASP:H	1:P:608:GLN:NE2	2.08	0.52
1:M:585:GLN:H	1:T:487:GLN:HE22	171.95	0.52
1:W:446:LEU:HD13	1:W:463:PHE:CE2	2.45	0.52
1:W:426:ALA:O	1:W:733:THR:HA	2.10	0.52
1:R:399:PHE:CZ	1:7:693:LYS:HG3	2.44	0.52
1:1:701:TYR:C	1:1:701:TYR:CD2	2.82	0.52
1:0:611:ASP:OD1	1:0:730:ARG:HG3	2.09	0.52
1:E:402:GLN:HG3	1:F:227:ASN:HD21	59.05	0.52
1:Z:444:TYR:CZ	1:Z:465:ARG:HB3	2.44	0.52
1:P:305:TRP:CE3	1:P:734:ARG:NH2	2.86	0.52
1:1:698:GLU:OE1	1:1:733:THR:HG23	2.09	0.52
1:Z:648:LEU:HD22	1:Z:648:LEU:N	2.41	0.52
1:S:408:ASN:ND2	1:T:224:ALA:H	1.95	0.52
1:C:501:PHE:H	1:R:449:THR:HG21	256.99	0.52
1:K:500:ASN:HA	1:L:449:THR:CG2	96.38	0.52
1:V:441:GLN:HE22	1:V:474:GLN:HB3	1.84	0.52
1:A:519:ASN:CB	1:W:475:PRO:HA	2.39	0.52
1:O:395:CYS:SG	1:O:397:GLU:HG2	2.74	0.52
1:4:432:ASP:O	1:4:435:MET:HE3	2.09	0.52
1:B:517:ILE:HD11	1:B:538:SER:CB	2.46	0.52
1:W:536:PRO:HG3	1:W:573:ALA:HB3	1.91	0.52
1:A:322:LYS:HB2	1:A:674:TYR:CE1	2.44	0.52
1:G:527:HIS:NE2	1:G:564:GLU:OE2	2.40	0.52
1:D:622:ILE:HD12	1:D:631:PRO:HB2	1.92	0.52
1:H:693:LYS:HG3	1:3:399:PHE:CZ	2.45	0.52
1:A:386:GLN:HE22	1:B:707:LYS:HD2	1.74	0.52
1:2:322:LYS:HB2	1:2:674:TYR:CE1	2.45	0.52
1:A:484:TYR:CE1	1:W:599:MET:HE2	2.45	0.52
1:L:624:HIS:O	1:U:427:HIS:HE1	160.31	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:693:LYS:HG3	1:G:399:PHE:CE2	86.91	0.52
1:6:246:THR:HG23	1:6:678:GLN:HE21	1.73	0.52
1:B:621:LYS:HB2	1:B:643:PRO:HG3	1.94	0.52
1:X:244:THR:HA	1:X:679:VAL:O	2.09	0.52
1:Z:355:LEU:HD23	1:Z:646:GLN:HG2	1.96	0.52
1:P:244:THR:HA	1:P:679:VAL:O	2.08	0.52
1:6:272:HIS:HB3	1:6:384:GLY:HA2	1.91	0.52
1:R:449:THR:HG21	1:Y:501:PHE:H	145.34	0.52
1:B:449:THR:HG21	1:P:501:PHE:H	219.05	0.52
1:R:532:ASP:OD1	1:R:564:GLU:OE2	2.28	0.52
1:F:449:THR:OG1	1:4:501:PHE:HE2	135.03	0.52
1:R:442:TYR:CZ	1:Y:287:ARG:HD2	116.10	0.52
1:D:486:GLN:HE22	1:D:538:SER:H	1.64	0.52
1:T:486:GLN:HE22	1:T:538:SER:H	1.58	0.52
1:K:322:LYS:O	1:K:673:GLN:HB2	2.09	0.52
1:7:519:ASN:O	1:7:521:GLY:N	2.42	0.52
1:W:553:THR:HG23	1:W:557:ASN:CB	2.44	0.52
1:J:527:HIS:NE2	1:J:562:ASP:OD1	2.50	0.52
1:3:435:MET:HG2	1:3:474:GLN:OE1	2.09	0.52
1:6:527:HIS:NE2	1:6:532:ASP:OD1	2.42	0.52
1:M:509:TYR:CD1	1:M:518:ILE:HD13	2.39	0.52
1:Q:527:HIS:NE2	1:Q:562:ASP:OD1	2.40	0.52
1:R:270:ASP:O	1:7:472:SER:HB3	2.09	0.52
1:F:267:ALA:O	1:F:268:SER:CB	2.57	0.52
1:F:540:VAL:HG21	1:F:560:ILE:HG23	1.92	0.52
1:U:386:GLN:NE2	1:V:707:LYS:HD2	2.32	0.52
1:Y:399:PHE:CE2	1:Z:693:LYS:HG3	2.44	0.52
1:6:611:ASP:OD2	1:6:612:VAL:N	2.43	0.52
1:P:444:TYR:CE2	1:P:465:ARG:HB3	2.50	0.52
1:T:289:HIS:CE1	1:T:365:PRO:HG3	2.46	0.52
1:I:289:HIS:CE1	1:I:365:PRO:HG3	2.45	0.52
1:H:386:GLN:NE2	1:I:707:LYS:HD2	2.24	0.52
1:E:634:LEU:HB2	1:5:477:ASN:O	120.28	0.52
1:4:408:ASN:HD21	1:5:224:ALA:N	1.97	0.52
1:V:527:HIS:NE2	1:V:564:GLU:OE2	2.51	0.52
1:K:527:HIS:NE2	1:K:564:GLU:CD	2.68	0.52
1:N:527:HIS:NE2	1:N:562:ASP:OD1	2.42	0.52
1:A:436:ASN:H	1:J:359:HIS:CE1	2.27	0.52
1:Y:519:ASN:CB	1:Z:475:PRO:HA	2.39	0.52
1:O:366:PHE:CE2	1:O:368:ALA:HB3	2.49	0.52
1:E:437:PRO:HD3	1:G:379:LEU:HD13	85.08	0.52
1:E:442:TYR:CZ	1:N:287:ARG:HD2	201.70	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:359:HIS:CE1	1:P:436:ASN:H	2.27	0.52
1:L:527:HIS:NE2	1:L:564:GLU:CD	2.63	0.52
1:D:270:ASP:O	1:H:472:SER:HB3	187.70	0.52
1:M:247:TRP:HB2	1:M:373:ILE:HD11	2.04	0.52
1:J:324:VAL:HB	1:J:333:ILE:HG23	1.92	0.52
1:B:693:LYS:HG3	1:P:399:PHE:CE2	166.83	0.52
1:C:265:THR:HG23	1:C:267:ALA:H	1.81	0.52
1:N:265:THR:HG23	1:N:267:ALA:H	1.74	0.52
1:I:265:THR:HG23	1:I:267:ALA:H	1.74	0.52
1:L:484:TYR:CE1	1:U:599:MET:HE2	186.13	0.52
1:A:529:ASP:H	1:Z:512:ASN:HD21	170.19	0.52
1:S:577:PHE:CE1	1:S:599:MET:HG2	2.45	0.52
1:L:398:TYR:OH	1:M:296:ASP:OD1	2.30	0.52
1:J:623:PRO:HB3	1:V:736:LEU:HD22	103.56	0.52
1:X:321:VAL:HG11	1:X:339:SER:HB3	1.91	0.52
1:C:500:ASN:HA	1:X:449:THR:CG2	202.32	0.52
1:J:435:MET:HG2	1:J:474:GLN:OE1	2.16	0.52
1:Q:517:ILE:CG2	1:Z:473:VAL:HA	124.12	0.52
1:Y:472:SER:HB3	1:O:270:ASP:O	2.10	0.52
1:E:475:PRO:HA	1:G:519:ASN:CB	62.99	0.52
1:U:509:TYR:CD1	1:U:518:ILE:HD13	2.37	0.52
1:O:517:ILE:HD11	1:O:538:SER:CB	2.42	0.52
1:Y:441:GLN:OE1	1:Y:475:PRO:HD2	2.10	0.52
1:L:322:LYS:HB2	1:L:674:TYR:CE1	2.46	0.52
1:F:272:HIS:HB3	1:F:384:GLY:HA2	1.92	0.52
1:T:423:SER:HB2	1:T:425:TYR:CE2	2.44	0.52
1:A:608:GLN:NE2	1:Z:626:ASP:H	139.54	0.52
1:I:423:SER:CB	1:I:425:TYR:CE2	2.93	0.52
1:2:609:ASP:O	1:2:730:ARG:NH2	2.39	0.52
1:F:296:ASP:OD1	1:J:398:TYR:OH	2.26	0.52
1:F:608:GLN:NE2	1:4:626:ASP:H	93.62	0.52
1:F:623:PRO:HB3	1:G:736:LEU:HD22	49.92	0.52
1:A:355:LEU:HD23	1:A:646:GLN:HG2	1.96	0.52
1:V:295:ARG:O	1:V:298:GLN:HB3	2.10	0.52
1:S:480:PRO:O	1:S:605:MET:HG2	2.10	0.52
1:M:666:LYS:NZ	1:N:719:GLY:O	2.60	0.52
1:C:252:TYR:CZ	1:C:375:GLN:HB2	2.45	0.52
1:7:312:LEU:HD12	1:7:313:ASN:H	1.75	0.52
1:Y:696:ASN:ND2	1:O:393:PHE:HB3	2.25	0.52
1:P:501:PHE:N	1:P:501:PHE:HD2	2.14	0.52
1:3:408:ASN:ND2	1:4:224:ALA:H	1.99	0.52
1:D:438:LEU:HD11	1:W:277:SER:HB2	169.53	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:247:TRP:HB2	1:Z:373:ILE:HD11	1.92	0.52
1:B:532:ASP:OD1	1:B:564:GLU:OE2	2.28	0.52
1:B:553:THR:HG23	1:B:557:ASN:CB	2.40	0.52
1:J:553:THR:HG23	1:J:557:ASN:CB	2.39	0.52
1:V:322:LYS:HB2	1:V:674:TYR:CE1	2.45	0.52
1:2:517:ILE:HD11	1:2:538:SER:CB	2.40	0.52
1:E:553:THR:HG23	1:E:557:ASN:CB	2.40	0.52
1:D:562:ASP:CG	1:D:564:GLU:HG3	2.31	0.52
1:M:608:GLN:HE22	1:T:626:ASP:H	111.02	0.52
1:G:626:ASP:H	1:4:608:GLN:HE22	1.58	0.52
1:H:615:GLN:NE2	1:H:726:PRO:HA	2.24	0.52
1:J:608:GLN:NE2	1:W:626:ASP:H	2.08	0.52
1:M:321:VAL:HG11	1:M:339:SER:CB	2.54	0.52
1:2:289:HIS:CE1	1:2:365:PRO:HG3	2.45	0.52
1:2:289:HIS:CD2	1:2:365:PRO:HG3	2.44	0.52
1:Y:423:SER:CB	1:Y:425:TYR:CE2	2.94	0.52
1:E:449:THR:CG2	1:N:500:ASN:HA	249.93	0.52
1:N:564:GLU:O	1:N:567:LYS:HG3	2.17	0.52
1:7:527:HIS:NE2	1:7:562:ASP:OD1	2.40	0.52
1:I:270:ASP:O	1:J:472:SER:HB3	63.52	0.52
1:C:517:ILE:CG2	1:X:473:VAL:HA	180.55	0.52
1:Y:287:ARG:HB3	1:Y:290:CYS:SG	2.50	0.52
1:V:536:PRO:HG3	1:V:573:ALA:HB3	1.91	0.52
1:E:359:HIS:CE1	1:5:436:ASN:H	122.70	0.52
1:C:475:PRO:HA	1:O:519:ASN:CB	163.38	0.52
1:F:532:ASP:OD1	1:F:564:GLU:OE2	2.34	0.52
1:H:486:GLN:NE2	1:H:539:GLY:N	2.73	0.52
1:H:397:GLU:HB2	1:I:367:PRO:CB	2.46	0.52
1:A:629:PHE:O	1:A:630:HIS:C	2.66	0.52
1:7:324:VAL:HB	1:7:333:ILE:HG23	1.92	0.52
1:Y:450:GLN:OE1	1:0:499:SER:HA	2.10	0.52
1:K:690:GLU:OE2	1:P:299:ARG:NH1	2.43	0.52
1:A:487:GLN:HE22	1:Q:585:GLN:H	211.57	0.52
1:R:423:SER:CB	1:R:425:TYR:CE2	2.93	0.52
1:I:360:GLN:NE2	1:X:440:ASP:HB2	2.25	0.52
1:R:609:ASP:O	1:R:730:ARG:NH2	2.38	0.52
1:7:384:GLY:O	1:7:386:GLN:N	2.43	0.52
1:Y:598:VAL:HG23	1:Z:580:VAL:HG11	1.91	0.52
1:A:700:GLN:HA	1:A:700:GLN:HE21	1.92	0.52
1:1:366:PHE:CE2	1:1:368:ALA:HB3	2.45	0.52
1:2:287:ARG:HD2	1:3:442:TYR:CZ	2.45	0.52
1:I:219:ASP:O	1:I:220:GLY:O	2.34	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:501:PHE:CA	1:C:504:THR:HG22	2.40	0.52
1:Q:502:THR:O	1:Q:506:ALA:HB2	2.09	0.52
1:K:506:ALA:HA	1:K:537:MET:HE1	2.05	0.52
1:A:432:ASP:O	1:A:435:MET:HE3	2.09	0.52
1:Q:441:GLN:NE2	1:Q:474:GLN:HB3	2.37	0.52
1:K:436:ASN:H	1:U:359:HIS:CE1	187.42	0.52
1:S:449:THR:HG21	1:6:501:PHE:H	1.75	0.52
1:7:486:GLN:HE22	1:7:538:SER:H	1.58	0.52
1:O:432:ASP:O	1:O:435:MET:HE3	2.30	0.52
1:B:457:GLN:HB3	1:V:498:ASN:HD21	1.73	0.52
1:I:457:GLN:HB3	1:V:498:ASN:HD21	155.31	0.52
1:K:384:GLY:O	1:K:386:GLN:N	2.56	0.52
1:W:607:TRP:HD1	1:W:608:GLN:O	1.92	0.52
1:5:611:ASP:OD1	1:5:730:ARG:HG3	2.10	0.52
1:U:384:GLY:C	1:U:386:GLN:H	2.20	0.52
1:U:384:GLY:O	1:U:386:GLN:N	2.50	0.52
1:Z:487:GLN:HE22	1:0:585:GLN:H	1.57	0.52
1:J:272:HIS:HB3	1:J:384:GLY:HA2	1.92	0.52
1:I:399:PHE:CZ	1:J:693:LYS:HG3	38.21	0.52
1:U:444:TYR:CZ	1:U:465:ARG:HB3	2.45	0.52
1:C:648:LEU:HD22	1:C:648:LEU:N	2.25	0.52
1:X:655:PRO:HB3	1:X:667:PHE:CE1	2.45	0.52
1:I:487:GLN:HE22	1:X:585:GLN:H	1.58	0.51
1:B:405:ARG:H	1:B:408:ASN:ND2	1.99	0.51
1:J:487:GLN:HE21	1:J:488:ARG:H	1.57	0.51
1:0:501:PHE:CA	1:0:504:THR:HG22	2.40	0.51
1:7:501:PHE:CD2	1:7:501:PHE:N	2.72	0.51
1:C:359:HIS:CE1	1:X:436:ASN:H	156.42	0.51
1:6:435:MET:HG2	1:6:474:GLN:OE1	2.10	0.51
1:E:438:LEU:HD23	1:E:438:LEU:N	2.44	0.51
1:X:290:CYS:HB2	1:X:291:HIS:CD2	2.44	0.51
1:M:473:VAL:HA	1:S:517:ILE:CG2	193.87	0.51
1:Q:289:HIS:CG	1:Q:365:PRO:HG3	2.44	0.51
1:3:562:ASP:CG	1:3:564:GLU:HG3	2.30	0.51
1:B:625:THR:HB	1:P:607:TRP:O	175.52	0.51
1:T:611:ASP:OD1	1:T:730:ARG:HG3	2.10	0.51
1:K:693:LYS:HG3	1:T:399:PHE:CE2	2.44	0.51
1:2:626:ASP:H	1:3:608:GLN:HE22	1.56	0.51
1:2:265:THR:HG23	1:2:267:ALA:H	1.75	0.51
1:M:246:THR:HG23	1:M:678:GLN:NE2	2.24	0.51
1:E:626:ASP:OD2	1:F:423:SER:HB3	2.10	0.51
1:F:423:SER:CB	1:F:425:TYR:CE2	2.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:321:VAL:HG11	1:K:339:SER:CB	2.40	0.51
1:D:624:HIS:O	1:U:427:HIS:HE1	171.62	0.51
1:H:624:HIS:O	1:W:427:HIS:HE1	118.25	0.51
1:3:333:ILE:HD12	1:3:333:ILE:H	1.74	0.51
1:S:280:TRP:CE2	1:S:650:LYS:HD2	2.51	0.51
1:7:355:LEU:HD23	1:7:646:GLN:HG2	1.92	0.51
1:R:697:PRO:HD3	1:Z:294:PRO:HB2	113.37	0.51
1:J:295:ARG:O	1:J:298:GLN:HB3	2.10	0.51
1:L:444:TYR:CZ	1:L:465:ARG:HB3	2.44	0.51
1:E:419:VAL:HG11	1:E:640:LEU:CD2	2.44	0.51
1:I:578:GLY:O	1:I:596:VAL:HG12	2.11	0.51
1:E:624:HIS:O	1:5:427:HIS:HE1	116.58	0.51
1:Q:566:ILE:HG13	1:Q:570:ASN:HB2	1.92	0.51
1:V:578:GLY:O	1:V:596:VAL:HG12	2.24	0.51
1:G:501:PHE:HD2	1:G:501:PHE:N	2.08	0.51
1:J:585:GLN:H	1:W:487:GLN:HE22	1.59	0.51
1:J:501:PHE:CA	1:J:504:THR:HG22	2.39	0.51
1:2:501:PHE:HA	1:2:504:THR:HG22	1.92	0.51
1:6:408:ASN:HD21	1:7:224:ALA:N	2.01	0.51
1:R:500:ASN:HA	1:7:449:THR:CG2	2.35	0.51
1:D:286:ASN:HD22	1:D:286:ASN:C	2.13	0.51
1:Q:270:ASP:O	1:Z:472:SER:HB3	128.75	0.51
1:E:324:VAL:HB	1:E:333:ILE:HG23	1.92	0.51
1:5:408:ASN:ND2	1:6:224:ALA:H	2.01	0.51
1:4:519:ASN:O	1:4:520:PRO:C	2.38	0.51
1:B:379:LEU:HD11	1:P:437:PRO:HB3	194.39	0.51
1:P:441:GLN:NE2	1:P:474:GLN:HB3	2.42	0.51
1:R:379:LEU:HD11	1:7:437:PRO:HB3	1.91	0.51
1:C:498:ASN:HD21	1:X:457:GLN:HB3	214.24	0.51
1:K:457:GLN:HB3	1:T:498:ASN:HD21	1.74	0.51
1:H:608:GLN:NE2	1:3:626:ASP:H	2.08	0.51
1:A:487:GLN:NE2	1:W:585:GLN:H	2.08	0.51
1:J:265:THR:HG23	1:J:267:ALA:H	1.83	0.51
1:C:599:MET:HE2	1:O:484:TYR:CE1	183.00	0.51
1:K:379:LEU:HD13	1:L:437:PRO:HD3	56.32	0.51
1:I:384:GLY:C	1:I:386:GLN:H	2.17	0.51
1:L:265:THR:HG23	1:L:267:ALA:H	1.80	0.51
1:L:384:GLY:C	1:L:386:GLN:H	2.17	0.51
1:K:599:MET:HE2	1:T:484:TYR:CE1	2.44	0.51
1:N:333:ILE:H	1:N:333:ILE:HD12	1.78	0.51
1:O:321:VAL:HG11	1:O:339:SER:HB3	1.91	0.51
1:1:324:VAL:HB	1:1:333:ILE:HG23	1.90	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:1:658:PRO:HG2	1:2:250:PRO:HB3	1.92	0.51
1:E:648:LEU:N	1:E:648:LEU:HD22	2.35	0.51
1:W:503:TRP:CD1	1:W:503:TRP:C	2.93	0.51
1:1:289:HIS:CE1	1:1:365:PRO:HG3	2.46	0.51
1:Y:327:ASN:O	1:Y:328:ASP:HB2	2.15	0.51
1:L:419:VAL:HG11	1:L:640:LEU:CD2	2.40	0.51
1:O:578:GLY:O	1:O:596:VAL:HG12	2.35	0.51
1:X:247:TRP:HB3	1:X:371:PHE:CE1	2.56	0.51
1:F:444:TYR:CZ	1:F:465:ARG:HB3	2.45	0.51
1:O:408:ASN:ND2	1:P:224:ALA:H	74.33	0.51
1:7:532:ASP:OD1	1:7:564:GLU:OE2	2.28	0.51
1:I:509:TYR:CD1	1:I:518:ILE:HD13	2.40	0.51
1:W:519:ASN:O	1:W:520:PRO:C	2.43	0.51
1:0:408:ASN:ND2	1:1:224:ALA:H	2.04	0.51
1:O:666:LYS:NZ	1:P:719:GLY:O	56.52	0.51
1:Q:472:SER:HB3	1:U:270:ASP:O	133.99	0.51
1:M:286:ASN:HD21	1:M:618:ILE:H	1.56	0.51
1:I:322:LYS:HB2	1:I:674:TYR:CE1	2.45	0.51
1:I:498:ASN:HD21	1:X:457:GLN:HB3	1.75	0.51
1:Q:457:GLN:HB3	1:U:498:ASN:HD21	132.05	0.51
1:D:626:ASP:OD2	1:H:423:SER:HB3	143.07	0.51
1:X:630:HIS:N	1:X:631:PRO:HD3	2.35	0.51
1:4:272:HIS:HB3	1:4:384:GLY:HA2	1.91	0.51
1:3:487:GLN:HE21	1:3:488:ARG:H	1.58	0.51
1:M:693:LYS:HG3	1:T:399:PHE:CE2	122.42	0.51
1:1:272:HIS:HB3	1:1:384:GLY:HA2	1.92	0.51
1:K:299:ARG:NH1	1:V:690:GLU:OE2	151.46	0.51
1:R:487:GLN:HE21	1:R:488:ARG:H	1.87	0.51
1:M:736:LEU:HD22	1:S:623:PRO:HB3	158.01	0.51
1:U:247:TRP:HB3	1:U:371:PHE:CE1	2.46	0.51
1:F:577:PHE:CE1	1:F:599:MET:HG2	2.49	0.51
1:Q:433:ARG:HG3	1:U:382:ASN:HD21	133.74	0.51
1:6:649:ILE:HG12	1:6:650:LYS:N	2.26	0.51
1:H:700:GLN:HE21	1:H:700:GLN:HA	1.87	0.51
1:5:312:LEU:HD12	1:5:313:ASN:H	1.75	0.51
1:O:585:GLN:H	1:X:487:GLN:HE22	205.57	0.51
1:I:585:GLN:H	1:V:487:GLN:HE22	143.39	0.51
1:V:502:THR:O	1:V:506:ALA:HB2	2.10	0.51
1:5:532:ASP:OD1	1:5:564:GLU:OE2	2.27	0.51
1:P:486:GLN:NE2	1:P:538:SER:H	2.08	0.51
1:I:270:ASP:O	1:X:472:SER:HB3	2.10	0.51
1:Y:520:PRO:HD3	1:Z:475:PRO:HB3	1.91	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:432:ASP:O	1:Z:435:MET:HE3	2.14	0.51
1:6:501:PHE:HA	1:6:504:THR:HG22	1.92	0.51
1:F:367:PRO:CB	1:J:397:GLU:HB2	2.41	0.51
1:M:527:HIS:NE2	1:M:564:GLU:CD	2.64	0.51
1:4:441:GLN:NE2	1:4:474:GLN:HB3	2.25	0.51
1:Y:436:ASN:H	1:0:359:HIS:CE1	2.28	0.51
1:H:438:LEU:N	1:H:438:LEU:HD23	2.37	0.51
1:E:457:GLN:HB3	1:N:498:ASN:HD21	264.63	0.51
1:A:532:ASP:OD1	1:A:564:GLU:OE2	2.27	0.51
1:P:395:CYS:SG	1:P:397:GLU:HG2	2.50	0.51
1:O:265:THR:HG23	1:O:267:ALA:H	1.78	0.51
1:R:690:GLU:OE2	1:Z:299:ARG:NH1	113.13	0.51
1:H:399:PHE:CZ	1:2:693:LYS:HG3	2.46	0.51
1:Q:442:TYR:CZ	1:U:287:ARG:HD2	96.75	0.51
1:R:626:ASP:H	1:7:608:GLN:NE2	2.08	0.51
1:A:312:LEU:HD12	1:A:313:ASN:N	2.25	0.51
1:Y:693:LYS:HG3	1:7:399:PHE:CE2	102.18	0.51
1:O:444:TYR:CZ	1:O:465:ARG:HB3	2.51	0.51
1:2:399:PHE:CE2	1:3:693:LYS:HG3	2.46	0.51
1:Y:252:TYR:CE1	1:Y:375:GLN:HB2	2.45	0.51
1:Y:299:ARG:NH1	1:3:690:GLU:OE2	94.40	0.51
1:5:419:VAL:HG11	1:5:640:LEU:CD2	2.41	0.51
1:X:541:MET:HE3	1:1:443:LEU:HD11	1.92	0.51
1:X:545:LYS:O	1:X:546:GLU:HB2	2.11	0.51
1:W:649:ILE:HG12	1:W:650:LYS:H	1.88	0.51
1:4:289:HIS:CE1	1:4:365:PRO:HG3	2.45	0.51
1:O:449:THR:OG1	1:X:501:PHE:HE2	202.81	0.51
1:C:487:GLN:HE22	1:X:585:GLN:H	206.21	0.51
1:1:501:PHE:HD2	1:1:501:PHE:N	2.03	0.51
1:P:500:ASN:HA	1:V:449:THR:CG2	220.67	0.51
1:P:287:ARG:HD2	1:V:442:TYR:CZ	181.22	0.51
1:L:359:HIS:CE1	1:T:436:ASN:H	73.03	0.51
1:W:520:PRO:CG	1:W:635:MET:HG2	2.51	0.51
1:C:437:PRO:HD3	1:N:379:LEU:HD13	123.68	0.51
1:M:366:PHE:CE2	1:M:368:ALA:HB3	2.52	0.51
1:7:520:PRO:HG2	1:7:635:MET:HG2	1.92	0.51
1:4:297:TRP:CD1	1:4:301:ILE:HD11	2.44	0.51
1:I:282:TYR:CE2	1:I:374:PRO:HB2	2.46	0.51
1:T:555:LEU:C	1:T:555:LEU:HD23	2.30	0.51
1:2:527:HIS:ND1	1:2:527:HIS:O	2.44	0.51
1:1:247:TRP:HB3	1:1:371:PHE:CE1	2.45	0.51
1:7:725:ARG:HB2	1:7:726:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:423:SER:CB	1:6:425:TYR:CE2	2.93	0.51
1:7:698:GLU:OE1	1:7:733:THR:HG23	2.10	0.51
1:G:658:PRO:HG2	1:H:250:PRO:HB3	1.91	0.51
1:I:427:HIS:HE1	1:1:624:HIS:O	1.94	0.51
1:C:658:PRO:HG2	1:D:250:PRO:HB3	2.00	0.51
1:I:252:TYR:CZ	1:I:375:GLN:HB2	2.55	0.51
1:N:599:MET:HE3	1:N:602:LEU:CD1	2.54	0.51
1:M:355:LEU:HD23	1:M:646:GLN:HG2	1.91	0.51
1:X:408:ASN:ND2	1:Y:224:ALA:H	2.01	0.51
1:V:405:ARG:N	1:V:408:ASN:HD22	1.99	0.51
1:E:502:THR:HG23	1:5:449:THR:HG22	143.79	0.51
1:5:527:HIS:CE1	1:5:532:ASP:OD1	2.64	0.51
1:F:405:ARG:H	1:F:408:ASN:ND2	2.09	0.51
1:V:509:TYR:HD1	1:V:518:ILE:CD1	2.23	0.51
1:S:359:HIS:HA	1:T:441:GLN:HA	77.50	0.51
1:C:509:TYR:CD1	1:C:518:ILE:HD13	2.39	0.51
1:B:270:ASP:O	1:P:472:SER:HB3	205.37	0.51
1:I:297:TRP:CD1	1:I:301:ILE:CD1	2.94	0.51
1:G:286:ASN:HD21	1:G:619:TRP:N	2.08	0.51
1:L:498:ASN:HD21	1:T:457:GLN:HB3	66.31	0.51
1:K:608:GLN:HE22	1:U:626:ASP:H	165.85	0.51
1:M:423:SER:CB	1:M:425:TYR:CE2	2.95	0.51
1:J:297:TRP:CD1	1:J:301:ILE:HD11	2.46	0.51
1:W:622:ILE:HD12	1:W:631:PRO:HB2	1.91	0.51
1:3:267:ALA:O	1:3:268:SER:HB3	2.10	0.51
1:N:297:TRP:CD1	1:N:301:ILE:HD11	2.65	0.51
1:T:725:ARG:HB2	1:T:726:PRO:HD2	1.91	0.51
1:K:432:ASP:O	1:K:435:MET:HE3	2.16	0.51
1:K:611:ASP:OD1	1:K:730:ARG:HG3	2.16	0.51
1:2:384:GLY:C	1:2:386:GLN:H	2.14	0.51
1:D:658:PRO:HG2	1:Z:250:PRO:HB3	190.12	0.51
1:O:246:THR:HG23	1:O:678:GLN:NE2	2.26	0.51
1:0:444:TYR:CE2	1:0:465:ARG:HB3	2.46	0.51
1:N:254:ASN:O	1:N:255:HIS:HB2	2.10	0.51
1:5:720:LEU:O	1:5:722:THR:HG22	2.10	0.51
1:F:398:TYR:OH	1:G:296:ASP:OD1	2.25	0.51
1:P:398:TYR:OH	1:Q:296:ASP:OD1	2.35	0.51
1:G:536:PRO:HG3	1:G:573:ALA:HB3	1.94	0.51
1:E:487:GLN:HE21	1:E:488:ARG:H	1.71	0.51
1:1:517:ILE:HD11	1:1:538:SER:CB	2.40	0.51
1:J:367:PRO:HB2	1:N:397:GLU:HB2	192.17	0.51
1:Z:395:CYS:SG	1:Z:397:GLU:HG2	2.51	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:509:TYR:HB3	1:O:518:ILE:HD11	1.93	0.51
1:O:527:HIS:NE2	1:O:564:GLU:CD	2.64	0.51
1:4:397:GLU:HB2	1:5:367:PRO:HB2	1.91	0.51
1:M:499:SER:HA	1:S:450:GLN:OE1	221.64	0.51
1:4:609:ASP:OD2	1:4:630:HIS:HE1	1.93	0.51
1:C:615:GLN:NE2	1:C:726:PRO:HA	2.40	0.51
1:5:555:LEU:C	1:5:555:LEU:HD23	2.31	0.51
1:T:265:THR:HG23	1:T:267:ALA:H	1.76	0.51
1:D:386:GLN:NE2	1:Z:707:LYS:HD2	208.41	0.51
1:V:312:LEU:HD12	1:V:313:ASN:N	2.26	0.51
1:B:399:PHE:CE2	1:P:693:LYS:HG3	166.80	0.51
1:J:658:PRO:HG2	1:K:250:PRO:HB3	217.41	0.51
1:K:296:ASP:OD1	1:O:398:TYR:OH	2.27	0.51
1:H:484:TYR:CE1	1:W:599:MET:HE2	133.23	0.51
1:G:432:ASP:O	1:G:435:MET:HE3	2.11	0.51
1:3:246:THR:HG23	1:3:678:GLN:NE2	2.26	0.51
1:D:634:LEU:HB2	1:U:477:ASN:O	175.01	0.51
1:Z:720:LEU:O	1:Z:722:THR:HG22	2.16	0.51
1:L:480:PRO:O	1:L:605:MET:HG2	2.10	0.51
1:J:239:VAL:CG1	1:J:685:TRP:HB2	2.41	0.51
1:S:566:ILE:HG13	1:S:570:ASN:HB2	2.02	0.51
1:1:254:ASN:O	1:1:255:HIS:HB2	2.10	0.51
1:G:244:THR:HA	1:G:679:VAL:O	2.20	0.51
1:G:498:ASN:O	1:G:499:SER:CB	2.59	0.51
1:Z:219:ASP:O	1:Z:220:GLY:O	2.29	0.51
1:O:398:TYR:OH	1:1:296:ASP:OD1	2.29	0.51
1:U:501:PHE:HD2	1:U:501:PHE:N	2.06	0.51
1:I:501:PHE:HE2	1:X:449:THR:OG1	1.89	0.51
1:D:449:THR:CG2	1:Q:500:ASN:HA	257.69	0.51
1:J:449:THR:CG2	1:W:500:ASN:HA	2.39	0.51
1:V:527:HIS:NE2	1:V:564:GLU:CD	2.74	0.51
1:P:517:ILE:CG2	1:V:473:VAL:HA	195.94	0.51
1:J:437:PRO:HB3	1:W:379:LEU:HD11	1.92	0.51
1:P:245:ARG:NE	1:P:367:PRO:HA	2.36	0.51
1:G:512:ASN:HD21	1:4:529:ASP:H	1.58	0.51
1:O:532:ASP:OD1	1:O:564:GLU:OE2	2.29	0.51
1:G:286:ASN:HD21	1:G:618:ILE:H	1.55	0.51
1:F:517:ILE:HG22	1:G:472:SER:O	73.00	0.51
1:R:366:PHE:CE2	1:R:368:ALA:HB3	2.51	0.51
1:U:282:TYR:CE2	1:U:374:PRO:HB2	2.49	0.51
1:H:450:GLN:OE1	1:3:499:SER:HA	2.10	0.51
1:C:297:TRP:CD1	1:C:301:ILE:HD11	2.46	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:693:LYS:HG3	1:U:399:PHE:CE2	115.54	0.51
1:E:611:ASP:HB2	1:E:730:ARG:NH1	2.25	0.51
1:K:250:PRO:HB3	1:O:658:PRO:HG2	1.93	0.51
1:A:426:ALA:O	1:A:733:THR:HA	2.12	0.51
1:T:621:LYS:HB2	1:T:643:PRO:HG3	1.92	0.51
1:B:566:ILE:HG13	1:B:570:ASN:HB2	2.03	0.51
1:2:238:ARG:HH11	1:2:238:ARG:HG2	1.76	0.51
1:3:621:LYS:HB2	1:3:643:PRO:HG3	1.92	0.51
1:P:722:THR:O	1:P:724:PRO:HD3	2.22	0.51
1:K:247:TRP:HB3	1:K:371:PHE:CE1	2.46	0.51
1:J:480:PRO:O	1:J:605:MET:HG2	2.11	0.51
1:H:327:ASN:O	1:H:328:ASP:HB2	2.11	0.51
1:C:427:HIS:HE1	1:N:624:HIS:O	121.83	0.51
1:O:696:ASN:HD22	1:O:696:ASN:H	1.57	0.51
1:W:502:THR:O	1:W:506:ALA:HB2	2.11	0.51
1:P:487:GLN:NE2	1:V:585:GLN:H	217.00	0.51
1:H:436:ASN:H	1:3:359:HIS:CE1	2.29	0.51
1:4:486:GLN:HE22	1:4:538:SER:H	1.58	0.51
1:6:432:ASP:O	1:6:435:MET:HE3	2.11	0.51
1:G:297:TRP:CD1	1:G:301:ILE:CD1	2.94	0.51
1:N:436:ASN:H	1:R:359:HIS:CE1	181.99	0.51
1:D:379:LEU:HD13	1:U:437:PRO:HD3	187.86	0.51
1:P:459:LYS:O	1:P:460:ASP:CB	2.59	0.51
1:H:630:HIS:N	1:H:631:PRO:HD3	2.25	0.51
1:7:282:TYR:CE2	1:7:374:PRO:HB2	2.46	0.51
1:Y:272:HIS:HB3	1:Y:384:GLY:HA2	1.93	0.51
1:T:577:PHE:CE1	1:T:599:MET:HG2	2.53	0.51
1:C:693:LYS:HG3	1:O:399:PHE:CE2	143.13	0.51
1:U:555:LEU:C	1:U:555:LEU:HD23	2.31	0.51
1:V:577:PHE:CE1	1:V:599:MET:HG2	2.50	0.51
1:X:218:ALA:HB1	1:Y:223:ASN:OD1	2.10	0.51
1:R:484:TYR:CE1	1:7:599:MET:HE2	2.46	0.51
1:S:736:LEU:HD22	1:6:623:PRO:HB3	1.93	0.51
1:F:634:LEU:HB2	1:G:477:ASN:O	71.98	0.51
1:I:443:LEU:HD11	1:1:541:MET:HE3	1.93	0.51
1:B:218:ALA:HB1	1:C:223:ASN:OD1	2.11	0.51
1:H:247:TRP:HB3	1:H:371:PHE:CE1	2.46	0.51
1:A:500:ASN:HA	1:W:449:THR:CG2	2.34	0.51
1:A:501:PHE:HD2	1:A:501:PHE:N	2.06	0.51
1:P:501:PHE:H	1:V:449:THR:HG21	218.85	0.51
1:V:501:PHE:HD2	1:V:501:PHE:N	2.13	0.51
1:Z:501:PHE:N	1:Z:501:PHE:CD2	2.73	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:559:MET:SD	1:Z:725:ARG:HA	2.50	0.51
1:S:519:ASN:O	1:S:520:PRO:C	2.46	0.51
1:Z:438:LEU:HD23	1:Z:438:LEU:N	2.26	0.51
1:J:245:ARG:NE	1:J:367:PRO:HA	2.26	0.51
1:7:486:GLN:NE2	1:7:539:GLY:N	2.56	0.51
1:A:486:GLN:NE2	1:A:538:SER:H	2.08	0.51
1:L:517:ILE:CG2	1:U:473:VAL:HA	180.67	0.51
1:C:473:VAL:HA	1:O:517:ILE:CG2	172.32	0.51
1:T:438:LEU:HD23	1:T:438:LEU:N	2.26	0.51
1:X:498:ASN:HD21	1:1:457:GLN:HB3	1.76	0.51
1:X:322:LYS:HB2	1:X:674:TYR:CE1	2.47	0.51
1:P:527:HIS:NE2	1:P:564:GLU:OE2	2.41	0.51
1:A:499:SER:HA	1:Q:450:GLN:OE1	230.06	0.51
1:M:450:GLN:OE1	1:T:499:SER:HA	187.13	0.51
1:T:498:ASN:O	1:T:499:SER:CB	2.57	0.51
1:H:532:ASP:OD1	1:H:564:GLU:OE2	2.33	0.51
1:U:622:ILE:CD1	1:U:631:PRO:HB2	2.41	0.51
1:2:527:HIS:CE1	1:2:532:ASP:OD1	2.64	0.51
1:M:555:LEU:C	1:M:555:LEU:HD23	2.45	0.51
1:7:630:HIS:N	1:7:631:PRO:HD3	2.26	0.51
1:6:611:ASP:HB2	1:6:730:ARG:NH1	2.26	0.51
1:6:384:GLY:C	1:6:386:GLN:H	2.14	0.51
1:Y:423:SER:HB2	1:Y:425:TYR:CE2	2.46	0.51
1:Y:355:LEU:HD23	1:Y:646:GLN:HG2	1.93	0.51
1:K:312:LEU:HD12	1:K:313:ASN:H	1.82	0.51
1:1:536:PRO:HG3	1:1:573:ALA:HB3	1.93	0.51
1:J:736:LEU:HD22	1:W:623:PRO:HB3	1.92	0.51
1:L:355:LEU:HD23	1:L:646:GLN:HG2	1.94	0.51
1:M:449:THR:OG1	1:T:501:PHE:HE2	181.10	0.50
1:A:393:PHE:HB3	1:Q:696:ASN:ND2	185.79	0.50
1:1:486:GLN:HE22	1:1:539:GLY:N	2.09	0.50
1:I:286:ASN:HD21	1:I:618:ILE:N	2.09	0.50
1:X:470:GLY:O	1:X:473:VAL:HG22	2.10	0.50
1:T:368:ALA:HB2	1:X:397:GLU:HG3	177.81	0.50
1:G:553:THR:HG23	1:G:557:ASN:CB	2.38	0.50
1:Q:527:HIS:CE1	1:Q:532:ASP:OD1	2.64	0.50
1:C:457:GLN:HB3	1:N:498:ASN:HD21	131.94	0.50
1:D:512:ASN:HD21	1:U:529:ASP:H	202.55	0.50
1:1:423:SER:HB2	1:1:425:TYR:CE2	2.46	0.50
1:X:265:THR:HG23	1:X:267:ALA:H	1.87	0.50
1:M:399:PHE:CE2	1:S:693:LYS:HG3	162.74	0.50
1:2:564:GLU:O	1:2:567:LYS:HG3	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:426:ALA:O	1:J:733:THR:HA	2.13	0.50
1:E:399:PHE:CZ	1:5:693:LYS:HG3	111.00	0.50
1:C:299:ARG:NH1	1:O:690:GLU:OE2	145.17	0.50
1:N:312:LEU:HD12	1:N:313:ASN:N	2.27	0.50
1:B:399:PHE:CZ	1:P:693:LYS:HG3	167.87	0.50
1:I:555:LEU:HD23	1:I:555:LEU:C	2.32	0.50
1:K:484:TYR:CD1	1:L:599:MET:HE2	78.71	0.50
1:Q:577:PHE:CE1	1:Q:599:MET:HG2	2.46	0.50
1:I:623:PRO:HB3	1:J:736:LEU:HD22	49.98	0.50
1:U:446:LEU:HD13	1:U:463:PHE:CE2	2.45	0.50
1:J:648:LEU:N	1:J:648:LEU:HD22	2.26	0.50
1:P:699:VAL:O	1:P:731:TYR:HB3	2.34	0.50
1:U:218:ALA:HB1	1:V:223:ASN:OD1	2.24	0.50
1:A:444:TYR:CZ	1:A:465:ARG:HB3	2.48	0.50
1:K:449:THR:CG2	1:U:500:ASN:HA	225.23	0.50
1:M:393:PHE:HB3	1:6:696:ASN:ND2	165.92	0.50
1:Y:537:MET:HG3	1:Z:446:LEU:HD23	1.93	0.50
1:7:562:ASP:CG	1:7:564:GLU:HG3	2.31	0.50
1:S:519:ASN:O	1:S:521:GLY:N	2.45	0.50
1:R:441:GLN:NE2	1:R:474:GLN:HB3	2.25	0.50
1:Y:503:TRP:C	1:Y:503:TRP:CD1	2.84	0.50
1:S:446:LEU:HD13	1:S:463:PHE:CE2	2.45	0.50
1:6:441:GLN:HE22	1:6:474:GLN:HB3	1.75	0.50
1:E:436:ASN:H	1:G:359:HIS:CE1	73.11	0.50
1:C:442:TYR:CZ	1:O:287:ARG:HD2	137.64	0.50
1:W:322:LYS:O	1:W:673:GLN:HB2	2.11	0.50
1:E:277:SER:HB2	1:5:438:LEU:HD11	126.27	0.50
1:H:297:TRP:CD1	1:H:301:ILE:CD1	2.95	0.50
1:R:324:VAL:HB	1:R:333:ILE:HG23	1.95	0.50
1:U:423:SER:CB	1:U:425:TYR:CE2	2.98	0.50
1:C:423:SER:CB	1:C:425:TYR:CE2	2.94	0.50
1:J:609:ASP:O	1:J:730:ARG:NH2	2.41	0.50
1:M:585:GLN:H	1:S:487:GLN:HE22	221.24	0.50
1:F:289:HIS:CG	1:F:365:PRO:HG3	2.46	0.50
1:C:512:ASN:HD21	1:R:529:ASP:H	237.41	0.50
1:N:693:LYS:HG3	1:5:399:PHE:CZ	182.23	0.50
1:Z:321:VAL:HG11	1:Z:339:SER:CB	2.44	0.50
1:7:423:SER:CB	1:7:425:TYR:CE2	2.94	0.50
1:T:402:GLN:HG3	1:U:227:ASN:HD21	144.76	0.50
1:Q:599:MET:HE2	1:U:484:TYR:CE1	129.73	0.50
1:S:247:TRP:HB2	1:S:373:ILE:HD11	1.97	0.50
1:C:366:PHE:CE2	1:C:368:ALA:HB3	2.46	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:243:SER:O	1:B:680:SER:HA	2.20	0.50
1:E:541:MET:HE3	1:5:443:LEU:HD11	121.26	0.50
1:I:408:ASN:ND2	1:J:224:ALA:H	2.01	0.50
1:Q:500:ASN:HA	1:Z:449:THR:CG2	137.12	0.50
1:Y:501:PHE:HE2	1:Z:449:THR:OG1	1.85	0.50
1:J:536:PRO:HG3	1:J:573:ALA:HB3	1.93	0.50
1:U:435:MET:HG2	1:U:474:GLN:OE1	2.14	0.50
1:Q:509:TYR:CD1	1:Q:518:ILE:HD13	2.43	0.50
1:J:472:SER:HB3	1:W:270:ASP:O	2.12	0.50
1:M:501:PHE:H	1:S:449:THR:HG21	210.91	0.50
1:J:286:ASN:HD21	1:J:619:TRP:N	2.02	0.50
1:C:529:ASP:H	1:N:512:ASN:HD21	148.45	0.50
1:F:270:ASP:O	1:G:472:SER:HB3	63.48	0.50
1:A:397:GLU:HG3	1:B:368:ALA:HB2	2.03	0.50
1:6:562:ASP:CG	1:6:564:GLU:HG3	2.30	0.50
1:D:536:PRO:HG3	1:D:573:ALA:HB3	2.00	0.50
1:7:265:THR:HG23	1:7:267:ALA:H	1.75	0.50
1:H:379:LEU:CD1	1:2:437:PRO:HB3	2.41	0.50
1:3:397:GLU:HB2	1:4:367:PRO:HB2	1.92	0.50
1:M:498:ASN:HD21	1:6:457:GLN:HB3	192.55	0.50
1:M:423:SER:HB3	1:S:626:ASP:OD2	142.91	0.50
1:U:690:GLU:OE2	1:Z:299:ARG:NH1	2.44	0.50
1:F:457:GLN:HB3	1:4:498:ASN:HD21	147.09	0.50
1:N:322:LYS:HB2	1:N:674:TYR:CE1	2.52	0.50
1:Z:555:LEU:C	1:Z:555:LEU:HD23	2.31	0.50
1:J:607:TRP:O	1:W:625:THR:HB	2.11	0.50
1:I:580:VAL:HG11	1:1:598:VAL:HG23	1.93	0.50
1:K:580:VAL:HG11	1:T:598:VAL:HG23	1.93	0.50
1:T:333:ILE:H	1:T:333:ILE:HD12	1.94	0.50
1:F:444:TYR:CE2	1:F:465:ARG:HB3	2.46	0.50
1:X:295:ARG:O	1:X:298:GLN:HB3	2.11	0.50
1:P:321:VAL:HG11	1:P:339:SER:HB3	1.92	0.50
1:W:348:GLU:HB2	1:W:350:GLN:NE2	2.26	0.50
1:0:699:VAL:O	1:0:731:TYR:HB3	2.11	0.50
1:K:324:VAL:HB	1:K:333:ILE:HG23	1.99	0.50
1:Q:355:LEU:HD23	1:Q:646:GLN:HG2	2.00	0.50
1:N:536:PRO:HD2	1:N:540:VAL:HG13	1.92	0.50
1:0:243:SER:O	1:0:680:SER:HA	2.11	0.50
1:R:444:TYR:CZ	1:R:465:ARG:HB3	2.46	0.50
1:B:487:GLN:HE22	1:O:585:GLN:H	216.72	0.50
1:Q:501:PHE:CA	1:Q:504:THR:HG22	2.42	0.50
1:D:470:GLY:O	1:D:473:VAL:HG22	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:441:GLN:HE22	1:J:474:GLN:HB3	1.95	0.50
1:S:527:HIS:CE1	1:S:532:ASP:OD1	2.64	0.50
1:K:472:SER:O	1:U:517:ILE:HG22	201.17	0.50
1:M:473:VAL:HA	1:T:517:ILE:CG2	156.20	0.50
1:V:431:LEU:HD23	1:V:431:LEU:O	2.28	0.50
1:D:553:THR:HG23	1:D:557:ASN:CB	2.42	0.50
1:A:379:LEU:HD13	1:W:437:PRO:HD3	1.93	0.50
1:M:457:GLN:HB3	1:T:498:ASN:HD21	192.85	0.50
1:O:272:HIS:HB3	1:O:384:GLY:HA2	2.00	0.50
1:4:423:SER:CB	1:4:425:TYR:CE2	2.95	0.50
1:Q:384:GLY:O	1:Q:386:GLN:N	2.55	0.50
1:A:272:HIS:HB3	1:A:384:GLY:HA2	1.92	0.50
1:N:384:GLY:C	1:N:386:GLN:H	2.21	0.50
1:Y:658:PRO:HG2	1:Z:250:PRO:HB3	85.20	0.50
1:Q:444:TYR:CE2	1:Q:465:ARG:HB3	2.54	0.50
1:D:623:PRO:HB3	1:H:736:LEU:HD22	158.14	0.50
1:I:599:MET:HE2	1:I:484:TYR:CE1	2.46	0.50
1:N:622:ILE:CD1	1:N:631:PRO:HB2	2.42	0.50
1:K:247:TRP:HB2	1:K:373:ILE:HD11	1.93	0.50
1:3:226:GLY:HA3	1:3:317:PHE:CD1	2.47	0.50
1:R:317:PHE:N	1:R:317:PHE:CD2	2.92	0.50
1:I:419:VAL:HG11	1:I:640:LEU:CD2	2.42	0.50
1:E:700:GLN:HE21	1:E:700:GLN:HA	1.81	0.50
1:P:272:HIS:HB3	1:P:384:GLY:HA2	1.92	0.50
1:D:659:PRO:HD2	1:Z:372:MET:HE1	194.58	0.50
1:F:541:MET:HE3	1:G:443:LEU:HD11	87.77	0.50
1:U:224:ALA:H	1:Y:408:ASN:ND2	2.01	0.50
1:D:585:GLN:H	1:W:487:GLN:NE2	164.85	0.50
1:I:585:GLN:H	1:I:487:GLN:NE2	2.10	0.50
1:B:475:PRO:HA	1:V:519:ASN:CB	2.42	0.50
1:W:441:GLN:NE2	1:W:474:GLN:HB3	2.44	0.50
1:Y:517:ILE:HD11	1:Y:538:SER:CB	2.42	0.50
1:S:486:GLN:NE2	1:S:538:SER:H	2.09	0.50
1:B:509:TYR:HB3	1:B:518:ILE:HD11	1.94	0.50
1:I:301:ILE:HG12	1:I:729:THR:HA	2.01	0.50
1:F:509:TYR:HD1	1:F:518:ILE:CD1	2.23	0.50
1:C:322:LYS:HB2	1:C:674:TYR:CE1	2.47	0.50
1:B:493:LYS:HE3	1:O:460:ASP:HA	226.44	0.50
1:I:460:ASP:HA	1:V:493:LYS:HE3	143.33	0.50
1:Q:245:ARG:NE	1:Q:367:PRO:HA	2.27	0.50
1:I:701:TYR:C	1:I:701:TYR:CD2	2.85	0.50
1:X:626:ASP:H	1:I:608:GLN:HE22	1.59	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:607:TRP:HD1	1:P:608:GLN:O	2.07	0.50
1:3:267:ALA:O	1:3:268:SER:CB	2.60	0.50
1:2:562:ASP:CG	1:2:564:GLU:HG3	2.32	0.50
1:L:630:HIS:N	1:L:631:PRO:HD3	2.25	0.50
1:V:312:LEU:HD13	1:V:683:ILE:HG12	1.94	0.50
1:B:384:GLY:C	1:B:386:GLN:H	2.15	0.50
1:1:444:TYR:CE2	1:1:465:ARG:HB3	2.46	0.50
1:X:725:ARG:HB2	1:X:726:PRO:HD2	1.94	0.50
1:P:386:GLN:NE2	1:Q:707:LYS:HD2	2.38	0.50
1:A:566:ILE:HG13	1:A:570:ASN:HB2	1.93	0.50
1:D:480:PRO:O	1:D:605:MET:HG2	2.18	0.50
1:H:238:ARG:HG2	1:H:238:ARG:HH11	1.76	0.50
1:W:658:PRO:HG2	1:X:250:PRO:HB3	1.94	0.50
1:H:239:VAL:CG1	1:H:685:TRP:HB2	2.55	0.50
1:L:501:PHE:HE2	1:U:449:THR:OG1	196.40	0.50
1:N:340:THR:HG22	1:N:405:ARG:HG2	2.00	0.50
1:J:502:THR:O	1:J:506:ALA:HB2	2.12	0.50
1:Z:501:PHE:HE2	1:O:449:THR:OG1	1.89	0.50
1:G:405:ARG:H	1:G:408:ASN:ND2	2.06	0.50
1:J:509:TYR:CD1	1:J:518:ILE:HD13	2.40	0.50
1:F:719:GLY:HA2	1:J:257:TYR:O	2.12	0.50
1:F:519:ASN:HD22	1:F:520:PRO:CD	2.25	0.50
1:C:441:GLN:HE22	1:C:474:GLN:HB3	1.77	0.50
1:M:472:SER:HB3	1:S:270:ASP:O	187.59	0.50
1:4:527:HIS:CE1	1:4:564:GLU:CD	2.85	0.50
1:B:247:TRP:HB2	1:B:373:ILE:HD11	1.99	0.50
1:C:324:VAL:HB	1:C:333:ILE:HG23	1.98	0.50
1:I:611:ASP:HB2	1:I:730:ARG:NH1	2.27	0.50
1:U:301:ILE:HG12	1:U:729:THR:HA	2.01	0.50
1:M:457:GLN:HB3	1:S:498:ASN:HD21	236.70	0.50
1:U:622:ILE:HD12	1:U:631:PRO:HB2	1.93	0.50
1:V:262:SER:OG	1:V:272:HIS:HD2	1.95	0.50
1:R:498:ASN:O	1:R:499:SER:CB	2.62	0.50
1:L:725:ARG:HB2	1:L:726:PRO:HD2	2.01	0.50
1:A:289:HIS:CG	1:A:365:PRO:HG3	2.47	0.50
1:I:399:PHE:CE2	1:X:693:LYS:HG3	2.47	0.50
1:U:312:LEU:HD13	1:U:683:ILE:HG12	1.94	0.50
1:N:238:ARG:HG2	1:N:238:ARG:NH1	2.26	0.50
1:Q:426:ALA:O	1:Q:733:THR:HA	2.15	0.50
1:I:442:TYR:CZ	1:V:287:ARG:HD2	116.04	0.50
1:K:246:THR:HG23	1:K:678:GLN:NE2	2.26	0.50
1:F:327:ASN:O	1:F:328:ASP:HB2	2.13	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:244:THR:HA	1:W:679:VAL:O	2.12	0.50
1:2:648:LEU:HD22	1:2:648:LEU:N	2.27	0.50
1:O:503:TRP:C	1:O:503:TRP:CD1	3.00	0.50
1:7:566:ILE:HG13	1:7:570:ASN:HB2	1.93	0.50
1:U:398:TYR:OH	1:V:296:ASP:OD1	2.32	0.50
1:D:577:PHE:CE1	1:D:599:MET:HG2	2.53	0.50
1:T:527:HIS:NE2	1:T:562:ASP:OD1	2.40	0.50
1:H:405:ARG:H	1:H:408:ASN:ND2	2.05	0.50
1:B:435:MET:HG2	1:B:474:GLN:OE1	2.12	0.50
1:B:473:VAL:HA	1:P:517:ILE:CG2	202.06	0.50
1:M:527:HIS:NE2	1:M:562:ASP:OD1	2.43	0.50
1:S:475:PRO:HA	1:6:519:ASN:CB	2.40	0.50
1:B:519:ASN:CB	1:P:475:PRO:HA	193.72	0.50
1:Q:470:GLY:O	1:Q:473:VAL:HG22	2.13	0.50
1:I:630:HIS:N	1:I:631:PRO:HD3	2.26	0.50
1:Y:536:PRO:HG3	1:Y:573:ALA:HB3	1.95	0.50
1:5:517:ILE:HD11	1:5:538:SER:CB	2.40	0.50
1:K:438:LEU:N	1:K:438:LEU:HD23	2.25	0.50
1:Y:553:THR:HG23	1:Y:557:ASN:CB	2.47	0.50
1:Y:498:ASN:O	1:Y:499:SER:CB	2.63	0.50
1:J:611:ASP:HB2	1:J:730:ARG:NH1	2.27	0.50
1:O:426:ALA:O	1:O:733:THR:HA	2.11	0.50
1:T:312:LEU:HD12	1:T:313:ASN:N	2.26	0.50
1:W:384:GLY:C	1:W:386:GLN:H	2.14	0.50
1:V:287:ARG:NH1	1:V:615:GLN:O	2.44	0.50
1:J:599:MET:HE3	1:J:602:LEU:CD1	2.57	0.50
1:J:327:ASN:O	1:J:328:ASP:HB2	2.25	0.50
1:F:578:GLY:O	1:F:596:VAL:HG12	2.12	0.50
1:7:247:TRP:HB3	1:7:371:PHE:CE1	2.46	0.50
1:7:289:HIS:CE1	1:7:365:PRO:HG3	2.46	0.50
1:Q:648:LEU:N	1:Q:648:LEU:HD22	2.34	0.50
1:4:419:VAL:HG11	1:4:640:LEU:CD2	2.41	0.50
1:Y:580:VAL:HG11	1:0:598:VAL:HG23	1.94	0.50
1:L:359:HIS:HA	1:T:441:GLN:HA	63.71	0.50
1:T:520:PRO:CG	1:T:635:MET:HG2	2.42	0.50
1:Y:520:PRO:CG	1:Y:635:MET:HG2	2.41	0.50
1:V:297:TRP:CD1	1:V:301:ILE:CD1	2.95	0.50
1:3:224:ALA:H	1:7:408:ASN:ND2	2.02	0.50
1:S:262:SER:OG	1:S:272:HIS:HD2	1.93	0.50
1:Z:527:HIS:CE1	1:Z:564:GLU:CD	2.87	0.50
1:A:611:ASP:OD2	1:A:612:VAL:N	2.44	0.50
1:5:486:GLN:HE22	1:5:539:GLY:N	2.09	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:366:PHE:CE2	1:6:368:ALA:HB3	2.46	0.50
1:5:265:THR:HG23	1:5:267:ALA:H	1.75	0.50
1:K:460:ASP:HA	1:T:493:LYS:HE3	1.93	0.50
1:0:607:TRP:HD1	1:0:608:GLN:O	1.95	0.50
1:0:527:HIS:NE2	1:0:564:GLU:CD	2.64	0.50
1:4:555:LEU:C	1:4:555:LEU:HD23	2.32	0.50
1:Z:487:GLN:NE2	1:0:585:GLN:H	2.10	0.50
1:U:487:GLN:HE21	1:U:488:ARG:H	1.73	0.50
1:1:297:TRP:CD1	1:1:301:ILE:HD11	2.47	0.50
1:0:397:GLU:HB2	1:1:367:PRO:HB2	1.94	0.50
1:L:287:ARG:HD2	1:T:442:TYR:CZ	50.37	0.50
1:X:399:PHE:CE2	1:1:693:LYS:HG3	2.47	0.50
1:2:312:LEU:HD12	1:2:313:ASN:N	2.27	0.50
1:U:321:VAL:HG11	1:U:339:SER:CB	2.41	0.50
1:Y:607:TRP:HD1	1:Y:608:GLN:O	1.97	0.50
1:W:272:HIS:HB3	1:W:384:GLY:HA2	1.92	0.50
1:A:246:THR:HG23	1:A:678:GLN:NE2	2.27	0.50
1:H:427:HIS:HE1	1:3:624:HIS:O	1.95	0.50
1:T:223:ASN:OD1	1:X:218:ALA:HB1	149.45	0.50
1:S:289:HIS:CE1	1:S:365:PRO:HG3	2.47	0.50
1:O:577:PHE:CE1	1:O:599:MET:HG2	2.59	0.50
1:U:649:ILE:HG12	1:U:650:LYS:H	1.76	0.50
1:Z:249:LEU:HB3	1:Z:675:SER:OG	2.27	0.50
1:Z:246:THR:HG23	1:Z:678:GLN:HE21	1.81	0.50
1:S:500:ASN:HA	1:T:449:THR:CG2	96.45	0.50
1:O:487:GLN:HE22	1:P:585:GLN:H	1.60	0.50
1:2:405:ARG:H	1:2:408:ASN:ND2	2.05	0.50
1:M:405:ARG:H	1:M:408:ASN:ND2	2.00	0.50
1:P:501:PHE:CA	1:P:504:THR:HG22	2.51	0.50
1:K:502:THR:O	1:K:506:ALA:HB2	2.12	0.50
1:A:367:PRO:CB	1:E:397:GLU:HB2	2.40	0.50
1:D:509:TYR:CD1	1:D:518:ILE:HD13	2.45	0.50
1:U:486:GLN:HE22	1:U:538:SER:N	2.10	0.50
1:N:658:PRO:HG2	1:O:250:PRO:HB3	1.94	0.50
1:I:247:TRP:HB3	1:I:371:PHE:CE1	2.46	0.50
1:6:701:TYR:CD2	1:6:701:TYR:C	2.85	0.50
1:0:322:LYS:HB2	1:0:674:TYR:CE1	2.46	0.50
1:X:333:ILE:H	1:X:333:ILE:HD12	1.82	0.50
1:4:265:THR:HG23	1:4:267:ALA:H	1.77	0.50
1:P:313:ASN:HB3	1:P:682:GLU:HB3	2.05	0.50
1:U:577:PHE:CD1	1:U:599:MET:HG2	2.46	0.50
1:K:611:ASP:HB2	1:K:730:ARG:NH1	2.39	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:321:VAL:HG11	1:B:339:SER:CB	2.41	0.50
1:J:246:THR:HG23	1:J:678:GLN:NE2	2.29	0.50
1:A:658:PRO:HG2	1:B:250:PRO:HB3	1.96	0.50
1:C:536:PRO:HG3	1:C:573:ALA:HB3	1.93	0.50
1:H:649:ILE:HG12	1:H:650:LYS:N	2.30	0.50
1:K:648:LEU:N	1:K:648:LEU:HD22	2.27	0.50
1:5:327:ASN:O	1:5:328:ASP:HB2	2.12	0.50
1:Q:477:ASN:O	1:U:634:LEU:HB2	111.26	0.50
1:3:289:HIS:CE1	1:3:365:PRO:HG3	2.47	0.50
1:2:696:ASN:HD22	1:2:696:ASN:H	1.58	0.49
1:1:696:ASN:H	1:1:696:ASN:HD22	1.58	0.49
1:I:585:GLN:H	1:V:487:GLN:NE2	142.54	0.49
1:E:501:PHE:H	1:5:449:THR:HG21	145.30	0.49
1:N:449:THR:CG2	1:5:500:ASN:HA	256.12	0.49
1:D:257:TYR:O	1:E:719:GLY:HA2	2.12	0.49
1:T:509:TYR:HD1	1:T:518:ILE:CD1	2.30	0.49
1:C:470:GLY:O	1:C:473:VAL:HG22	2.12	0.49
1:C:527:HIS:NE2	1:C:564:GLU:CD	2.66	0.49
1:X:499:SER:HA	1:1:450:GLN:OE1	2.12	0.49
1:Z:493:LYS:HE3	1:0:460:ASP:HA	1.93	0.49
1:H:499:SER:HA	1:2:450:GLN:OE1	2.11	0.49
1:D:493:LYS:HE3	1:H:460:ASP:HA	232.77	0.49
1:Q:383:ASN:O	1:Q:384:GLY:O	2.41	0.49
1:K:493:LYS:HE3	1:L:460:ASP:HA	113.58	0.49
1:E:349:TYR:OH	1:E:643:PRO:O	2.21	0.49
1:O:399:PHE:CZ	1:P:693:LYS:HG3	2.46	0.49
1:U:349:TYR:OH	1:U:643:PRO:O	2.20	0.49
1:K:227:ASN:ND2	1:O:402:GLN:HG3	2.27	0.49
1:5:321:VAL:HG11	1:5:339:SER:CB	2.41	0.49
1:6:321:VAL:HG11	1:6:339:SER:HB3	1.94	0.49
1:Z:623:PRO:HB3	1:0:736:LEU:HD22	1.92	0.49
1:L:244:THR:HA	1:L:679:VAL:O	2.12	0.49
1:R:218:ALA:HB1	1:S:223:ASN:OD1	2.20	0.49
1:5:658:PRO:HG2	1:6:250:PRO:HB3	1.95	0.49
1:0:272:HIS:HB3	1:0:384:GLY:HA2	1.93	0.49
1:I:648:LEU:N	1:I:648:LEU:HD22	2.26	0.49
1:W:445:TYR:CD1	1:W:445:TYR:N	2.89	0.49
1:J:700:GLN:HA	1:J:700:GLN:HE21	1.84	0.49
1:1:445:TYR:N	1:1:445:TYR:CD1	2.80	0.49
1:B:402:GLN:HG3	1:C:227:ASN:HD21	1.86	0.49
1:R:666:LYS:NZ	1:S:719:GLY:O	2.45	0.49
1:Y:382:ASN:HD21	1:Z:433:ARG:HG3	1.77	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:524:MET:HG2	1:B:571:PRO:HG2	1.94	0.49
1:T:501:PHE:CA	1:T:504:THR:HG22	2.42	0.49
1:Y:501:PHE:HD2	1:Y:501:PHE:N	2.08	0.49
1:J:441:GLN:NE2	1:J:474:GLN:HB3	2.40	0.49
1:F:368:ALA:HB2	1:J:257:TYR:HE1	1.77	0.49
1:S:527:HIS:NE2	1:S:562:ASP:OD1	2.43	0.49
1:X:519:ASN:CB	1:1:475:PRO:HA	2.41	0.49
1:G:287:ARG:HD2	1:4:442:TYR:CZ	2.47	0.49
1:E:436:ASN:H	1:N:359:HIS:CE1	206.95	0.49
1:E:472:SER:O	1:N:517:ILE:HG22	225.45	0.49
1:E:473:VAL:HA	1:G:517:ILE:CG2	71.50	0.49
1:Z:286:ASN:HD21	1:Z:619:TRP:N	2.09	0.49
1:I:536:PRO:HD2	1:I:540:VAL:HG13	1.99	0.49
1:5:509:TYR:HD1	1:5:518:ILE:CD1	2.24	0.49
1:N:473:VAL:HA	1:5:517:ILE:CG2	229.85	0.49
1:X:527:HIS:CE1	1:X:532:ASP:OD1	2.65	0.49
1:L:493:LYS:HE3	1:T:460:ASP:HA	49.72	0.49
1:D:301:ILE:HG12	1:D:729:THR:HA	1.94	0.49
1:U:607:TRP:HD1	1:U:608:GLN:O	1.95	0.49
1:X:622:ILE:HD12	1:X:631:PRO:HB2	1.94	0.49
1:Q:555:LEU:HD23	1:Q:555:LEU:C	2.35	0.49
1:F:693:LYS:HG3	1:4:399:PHE:CZ	120.88	0.49
1:N:423:SER:HB3	1:R:626:ASP:OD2	169.92	0.49
1:M:349:TYR:CE2	1:M:643:PRO:HD2	2.47	0.49
1:6:629:PHE:O	1:6:630:HIS:C	2.50	0.49
1:I:444:TYR:CE2	1:I:465:ARG:HB3	2.47	0.49
1:I:294:PRO:HD2	1:2:695:TRP:CE2	2.47	0.49
1:J:243:SER:O	1:J:680:SER:HA	2.12	0.49
1:N:543:PHE:O	1:N:544:GLY:O	2.50	0.49
1:P:446:LEU:HD13	1:P:463:PHE:CE2	2.59	0.49
1:G:340:THR:HG22	1:G:405:ARG:HG2	2.02	0.49
1:I:286:ASN:ND2	1:I:618:ILE:N	2.53	0.49
1:U:432:ASP:O	1:U:435:MET:HE3	2.13	0.49
1:D:442:TYR:CZ	1:W:287:ARG:HD2	153.83	0.49
1:Q:379:LEU:HD13	1:Z:437:PRO:HD3	132.52	0.49
1:Y:287:ARG:HD2	1:Z:442:TYR:CZ	2.47	0.49
1:M:487:GLN:HE21	1:M:488:ARG:H	1.65	0.49
1:T:245:ARG:NE	1:T:367:PRO:HA	2.41	0.49
1:7:508:LYS:HA	1:7:518:ILE:HG12	1.94	0.49
1:F:564:GLU:O	1:F:567:LYS:HG3	2.13	0.49
1:I:297:TRP:HE1	1:I:301:ILE:HD11	1.76	0.49
1:Z:527:HIS:NE2	1:Z:564:GLU:OE2	2.52	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:512:ASN:HD21	1:P:529:ASP:H	1.58	0.49
1:J:527:HIS:NE2	1:J:564:GLU:CD	2.71	0.49
1:A:527:HIS:O	1:A:527:HIS:ND1	2.45	0.49
1:P:282:TYR:CE2	1:P:374:PRO:HB2	2.49	0.49
1:L:426:ALA:O	1:L:733:THR:HA	2.13	0.49
1:R:693:LYS:HG3	1:Y:399:PHE:CZ	111.06	0.49
1:R:399:PHE:CE2	1:7:693:LYS:HG3	2.47	0.49
1:5:725:ARG:HB2	1:5:726:PRO:HD2	1.94	0.49
1:D:690:GLU:OE2	1:R:299:ARG:NH1	192.02	0.49
1:J:690:GLU:OE2	1:X:299:ARG:NH1	2.46	0.49
1:X:312:LEU:HD12	1:X:313:ASN:N	2.31	0.49
1:J:512:ASN:HD21	1:V:529:ASP:H	118.92	0.49
1:B:312:LEU:HD12	1:B:313:ASN:N	2.31	0.49
1:7:321:VAL:HG11	1:7:339:SER:CB	2.42	0.49
1:K:223:ASN:OD1	1:O:218:ALA:HB1	2.11	0.49
1:J:444:TYR:CE2	1:J:465:ARG:HB3	2.50	0.49
1:H:384:GLY:C	1:H:386:GLN:H	2.15	0.49
1:K:477:ASN:O	1:U:634:LEU:HB2	180.89	0.49
1:G:252:TYR:CZ	1:G:375:GLN:HB2	2.46	0.49
1:D:327:ASN:O	1:D:328:ASP:HB2	2.12	0.49
1:H:720:LEU:O	1:H:722:THR:HG22	2.12	0.49
1:T:419:VAL:HG11	1:T:640:LEU:CD2	2.42	0.49
1:W:700:GLN:HA	1:W:700:GLN:HE21	1.78	0.49
1:E:408:ASN:HD21	1:F:224:ALA:N	74.30	0.49
1:J:519:ASN:CB	1:V:475:PRO:HA	118.75	0.49
1:P:286:ASN:ND2	1:P:618:ILE:N	2.55	0.49
1:I:517:ILE:HG22	1:J:472:SER:O	73.08	0.49
1:W:509:TYR:CD1	1:W:518:ILE:HD13	2.43	0.49
1:Q:287:ARG:HD2	1:Z:442:TYR:CZ	125.86	0.49
1:E:519:ASN:CB	1:F:475:PRO:HA	2.40	0.49
1:2:286:ASN:HD21	1:2:618:ILE:H	1.56	0.49
1:L:322:LYS:CE	1:L:335:ASN:ND2	2.80	0.49
1:B:498:ASN:O	1:B:499:SER:CB	2.61	0.49
1:I:693:LYS:HG3	1:V:399:PHE:CE2	109.94	0.49
1:5:301:ILE:HG12	1:5:729:THR:HA	1.95	0.49
1:Z:629:PHE:O	1:Z:630:HIS:C	2.51	0.49
1:4:611:ASP:OD1	1:4:730:ARG:HG3	2.13	0.49
1:3:564:GLU:O	1:3:567:LYS:HG3	2.12	0.49
1:M:280:TRP:CE2	1:M:650:LYS:HD2	2.48	0.49
1:O:608:GLN:HE22	1:X:626:ASP:H	156.64	0.49
1:D:622:ILE:CD1	1:D:631:PRO:HB2	2.42	0.49
1:P:577:PHE:CD1	1:P:599:MET:HG2	2.62	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:529:ASP:H	1:Q:512:ASN:HD21	237.26	0.49
1:I:384:GLY:O	1:I:386:GLN:N	2.47	0.49
1:R:272:HIS:HB3	1:R:384:GLY:HA2	1.97	0.49
1:J:725:ARG:HB2	1:J:726:PRO:HD2	1.94	0.49
1:2:725:ARG:HB2	1:2:726:PRO:HD2	1.95	0.49
1:D:623:PRO:HB3	1:U:736:LEU:HD22	173.62	0.49
1:K:626:ASP:OD2	1:L:423:SER:HB3	38.87	0.49
1:X:384:GLY:C	1:X:386:GLN:H	2.20	0.49
1:O:247:TRP:HB3	1:O:371:PHE:CE1	2.58	0.49
1:M:313:ASN:HB3	1:M:682:GLU:HB3	1.94	0.49
1:2:321:VAL:HG11	1:2:339:SER:HB3	1.93	0.49
1:I:700:GLN:HA	1:I:700:GLN:HE21	1.81	0.49
1:Q:524:MET:HG2	1:Q:571:PRO:HG2	2.18	0.49
1:W:566:ILE:HG13	1:W:570:ASN:HB2	2.03	0.49
1:Q:578:GLY:O	1:Q:596:VAL:HG12	2.40	0.49
1:T:431:LEU:HD23	1:T:431:LEU:O	2.12	0.49
1:D:436:ASN:H	1:Q:359:HIS:CE1	213.72	0.49
1:S:436:ASN:H	1:6:359:HIS:CE1	2.30	0.49
1:M:286:ASN:HD21	1:M:619:TRP:N	2.11	0.49
1:S:297:TRP:CD1	1:S:301:ILE:CD1	2.96	0.49
1:E:301:ILE:HG12	1:E:729:THR:HA	1.99	0.49
1:A:693:LYS:HG3	1:J:399:PHE:CE2	2.48	0.49
1:G:564:GLU:O	1:G:567:LYS:HG3	2.12	0.49
1:J:459:LYS:O	1:J:460:ASP:CB	2.64	0.49
1:A:527:HIS:NE2	1:A:564:GLU:CD	2.66	0.49
1:I:299:ARG:NH1	1:2:690:GLU:OE2	2.46	0.49
1:P:265:THR:HG23	1:P:267:ALA:H	1.77	0.49
1:L:487:GLN:HE21	1:L:488:ARG:H	1.61	0.49
1:7:297:TRP:CD1	1:7:301:ILE:HD11	2.46	0.49
1:T:272:HIS:HB3	1:T:384:GLY:HA2	1.95	0.49
1:6:282:TYR:CE2	1:6:374:PRO:HB2	2.47	0.49
1:D:432:ASP:O	1:D:435:MET:HE3	2.13	0.49
1:T:312:LEU:HD13	1:T:683:ILE:HG12	2.11	0.49
1:B:426:ALA:O	1:B:733:THR:HA	2.11	0.49
1:O:623:PRO:HB3	1:P:736:LEU:HD22	1.95	0.49
1:R:289:HIS:CD2	1:R:365:PRO:HG3	2.47	0.49
1:6:577:PHE:CE1	1:6:599:MET:HG2	2.46	0.49
1:H:272:HIS:HB3	1:H:384:GLY:HA2	1.94	0.49
1:R:697:PRO:HD3	1:Z:294:PRO:CB	112.66	0.49
1:D:599:MET:HE2	1:W:484:TYR:CE1	143.39	0.49
1:A:360:GLN:HG3	1:W:440:ASP:O	2.13	0.49
1:O:536:PRO:HG3	1:O:573:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:238:ARG:HH11	1:G:238:ARG:HG2	1.87	0.49
1:4:324:VAL:HB	1:4:333:ILE:HG23	1.94	0.49
1:H:257:TYR:O	1:I:719:GLY:HA2	2.23	0.49
1:6:327:ASN:O	1:6:328:ASP:HB2	2.12	0.49
1:2:501:PHE:HD2	1:2:501:PHE:N	2.05	0.49
1:Y:449:THR:OG1	1:7:501:PHE:HE2	149.63	0.49
1:0:435:MET:HG2	1:0:474:GLN:OE1	2.11	0.49
1:1:519:ASN:HD22	1:1:520:PRO:CD	2.25	0.49
1:Z:519:ASN:CB	1:0:475:PRO:HA	2.42	0.49
1:Y:519:ASN:HD22	1:Y:520:PRO:CD	2.25	0.49
1:0:245:ARG:NE	1:0:367:PRO:HA	2.27	0.49
1:M:359:HIS:CE1	1:S:436:ASN:H	182.09	0.49
1:E:359:HIS:O	1:F:442:TYR:HD2	1.96	0.49
1:E:475:PRO:HA	1:N:519:ASN:CB	217.32	0.49
1:B:324:VAL:HB	1:B:333:ILE:HG23	1.99	0.49
1:C:527:HIS:NE2	1:C:564:GLU:OE2	2.43	0.49
1:0:520:PRO:HG2	1:0:635:MET:HG2	1.94	0.49
1:6:527:HIS:NE2	1:6:562:ASP:OD1	2.45	0.49
1:W:247:TRP:HB3	1:W:371:PHE:CE1	2.48	0.49
1:Q:527:HIS:NE2	1:Q:564:GLU:CD	2.65	0.49
1:E:459:LYS:O	1:E:460:ASP:CB	2.66	0.49
1:5:272:HIS:HB3	1:5:384:GLY:HA2	1.95	0.49
1:Z:498:ASN:O	1:Z:499:SER:CB	2.75	0.49
1:D:499:SER:HA	1:U:450:GLN:OE1	221.77	0.49
1:B:626:ASP:H	1:O:608:GLN:HE22	158.59	0.49
1:E:499:SER:HA	1:F:450:GLN:OE1	2.12	0.49
1:3:265:THR:HG23	1:3:267:ALA:H	1.78	0.49
1:0:527:HIS:CE1	1:0:532:ASP:OD1	2.65	0.49
1:M:585:GLN:H	1:T:487:GLN:NE2	172.14	0.49
1:D:265:THR:HG23	1:D:267:ALA:H	1.77	0.49
1:L:624:HIS:O	1:T:427:HIS:HE1	83.67	0.49
1:Q:736:LEU:HD22	1:U:623:PRO:HB3	119.30	0.49
1:X:247:TRP:HB2	1:X:373:ILE:HD11	1.95	0.49
1:W:649:ILE:HG12	1:W:650:LYS:N	2.30	0.49
1:X:598:VAL:HG23	1:1:580:VAL:HG11	1.93	0.49
1:E:344:PHE:HB3	1:E:401:SER:HB3	1.94	0.49
1:D:524:MET:HG2	1:D:571:PRO:HG2	1.95	0.49
1:Y:634:LEU:HB2	1:Z:477:ASN:O	2.13	0.49
1:N:317:PHE:CD2	1:N:317:PHE:N	2.89	0.49
1:F:648:LEU:N	1:F:648:LEU:HD22	2.26	0.49
1:P:634:LEU:HB2	1:V:477:ASN:O	177.82	0.49
1:F:355:LEU:HD23	1:F:646:GLN:HG2	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:1:243:SER:O	1:1:680:SER:HA	2.11	0.49
1:2:502:THR:O	1:2:506:ALA:HB2	2.13	0.49
1:5:532:ASP:OD2	1:5:562:ASP:OD1	2.30	0.49
1:R:501:PHE:CA	1:R:504:THR:HG22	2.46	0.49
1:1:486:GLN:NE2	1:1:538:SER:H	2.10	0.49
1:A:359:HIS:CE1	1:W:436:ASN:H	2.31	0.49
1:C:379:LEU:HD13	1:X:437:PRO:HD3	157.34	0.49
1:Y:379:LEU:CD1	1:Z:437:PRO:HB3	2.42	0.49
1:X:359:HIS:CE1	1:1:436:ASN:H	2.29	0.49
1:L:509:TYR:HD1	1:L:518:ILE:CD1	2.22	0.49
1:C:532:ASP:OD1	1:C:564:GLU:OE2	2.30	0.49
1:I:333:ILE:H	1:I:333:ILE:HD12	1.85	0.49
1:P:527:HIS:ND1	1:P:527:HIS:O	2.46	0.49
1:I:499:SER:HA	1:J:450:GLN:OE1	100.36	0.49
1:C:493:LYS:HE3	1:R:460:ASP:HA	256.92	0.49
1:T:459:LYS:O	1:T:460:ASP:CB	2.60	0.49
1:3:527:HIS:CE1	1:3:532:ASP:OD1	2.66	0.49
1:N:366:PHE:CE2	1:N:368:ALA:HB3	2.47	0.49
1:L:399:PHE:CE2	1:U:693:LYS:HG3	141.89	0.49
1:E:707:LYS:HD2	1:I:386:GLN:NE2	151.47	0.49
1:O:690:GLU:OE2	1:T:299:ARG:NH1	110.94	0.49
1:B:399:PHE:CE2	1:O:693:LYS:HG3	151.20	0.49
1:T:658:PRO:HG2	1:U:250:PRO:HB3	175.69	0.49
1:S:624:HIS:O	1:T:427:HIS:HE1	42.34	0.49
1:B:444:TYR:CE2	1:B:465:ARG:HB3	2.54	0.49
1:G:384:GLY:C	1:G:386:GLN:H	2.16	0.49
1:S:599:MET:HE2	1:6:484:TYR:CE1	2.48	0.49
1:Q:218:ALA:HB1	1:R:223:ASN:OD1	2.13	0.49
1:U:295:ARG:O	1:U:298:GLN:HB3	2.12	0.49
1:Q:247:TRP:HB2	1:Q:373:ILE:HD11	2.01	0.49
1:L:402:GLN:HG3	1:M:227:ASN:HD21	1.75	0.49
1:E:699:VAL:O	1:E:731:TYR:HB3	2.13	0.49
1:U:317:PHE:N	1:U:317:PHE:CD2	2.80	0.49
1:4:366:PHE:CE2	1:4:368:ALA:HB3	2.47	0.49
1:L:502:THR:O	1:L:506:ALA:HB2	2.13	0.49
1:S:501:PHE:HE2	1:T:449:THR:OG1	101.61	0.49
1:E:449:THR:HG21	1:N:501:PHE:CE2	247.55	0.49
1:X:501:PHE:CA	1:X:504:THR:HG22	2.42	0.49
1:D:286:ASN:HD21	1:D:618:ILE:N	2.10	0.49
1:W:432:ASP:O	1:W:435:MET:HE3	2.12	0.49
1:A:366:PHE:CE2	1:A:368:ALA:HB3	2.47	0.49
1:E:247:TRP:HB2	1:E:373:ILE:HD11	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:517:ILE:CG2	1:F:473:VAL:HA	2.43	0.49
1:K:322:LYS:HB2	1:K:674:TYR:CE1	2.49	0.49
1:R:517:ILE:HD11	1:R:538:SER:CB	2.43	0.49
1:G:527:HIS:CE1	1:G:532:ASP:OD1	2.65	0.49
1:5:322:LYS:O	1:5:673:GLN:HB2	2.13	0.49
1:U:609:ASP:O	1:U:730:ARG:NH2	2.50	0.49
1:C:577:PHE:CE1	1:C:599:MET:HG2	2.47	0.49
1:N:585:GLN:H	1:5:487:GLN:HE22	249.82	0.49
1:J:621:LYS:HB2	1:J:643:PRO:HG3	1.94	0.49
1:B:272:HIS:HB3	1:B:384:GLY:HA2	1.95	0.49
1:0:622:ILE:HD12	1:0:631:PRO:CB	2.43	0.49
1:G:386:GLN:NE2	1:H:707:LYS:HD2	2.35	0.49
1:H:384:GLY:O	1:H:386:GLN:N	2.46	0.49
1:2:333:ILE:HD12	1:2:333:ILE:H	1.77	0.49
1:T:344:PHE:HB3	1:T:401:SER:HB3	1.94	0.49
1:3:355:LEU:HD23	1:3:646:GLN:HG2	1.94	0.49
1:H:501:PHE:HD2	1:H:501:PHE:N	2.04	0.49
1:T:527:HIS:NE2	1:T:532:ASP:OD1	2.46	0.49
1:A:519:ASN:HD22	1:A:520:PRO:CD	2.26	0.49
1:D:472:SER:HB3	1:W:270:ASP:O	167.66	0.49
1:M:500:ASN:HA	1:6:449:THR:CG2	183.72	0.49
1:S:397:GLU:HG3	1:T:368:ALA:HB2	1.94	0.49
1:S:384:GLY:O	1:S:386:GLN:N	2.57	0.49
1:E:527:HIS:NE2	1:E:562:ASP:OD1	2.54	0.49
1:E:527:HIS:NE2	1:E:564:GLU:CD	2.67	0.49
1:G:509:TYR:HB3	1:G:518:ILE:HD11	1.93	0.49
1:K:297:TRP:CD1	1:K:301:ILE:CD1	2.99	0.49
1:N:473:VAL:HA	1:R:517:ILE:CG2	196.70	0.49
1:F:262:SER:OG	1:F:272:HIS:HD2	1.96	0.49
1:4:322:LYS:HB2	1:4:674:TYR:CE1	2.47	0.49
1:P:527:HIS:NE2	1:P:562:ASP:OD1	2.51	0.49
1:K:608:GLN:HE22	1:T:626:ASP:H	1.61	0.49
1:B:622:ILE:HD12	1:B:631:PRO:HB2	1.93	0.49
1:2:555:LEU:C	1:2:555:LEU:HD23	2.33	0.49
1:N:457:GLN:HB3	1:5:498:ASN:HD21	272.56	0.49
1:D:693:LYS:HG3	1:W:399:PHE:CE2	141.26	0.49
1:M:426:ALA:O	1:M:733:THR:HA	2.13	0.49
1:0:426:ALA:O	1:0:733:THR:HA	2.13	0.49
1:M:577:PHE:CE1	1:M:599:MET:HG2	2.47	0.49
1:7:384:GLY:C	1:7:386:GLN:H	2.16	0.49
1:U:247:TRP:HB2	1:U:373:ILE:HD11	1.94	0.49
1:M:720:LEU:O	1:M:722:THR:HG22	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:624:HIS:O	1:S:427:HIS:HE1	171.58	0.49
1:4:246:THR:HG23	1:4:678:GLN:HE21	1.77	0.49
1:A:238:ARG:HG2	1:A:238:ARG:HH11	1.77	0.49
1:I:382:ASN:HD21	1:X:433:ARG:HG3	1.78	0.49
1:L:516:SER:HB3	1:U:476:LYS:NZ	176.38	0.49
1:Y:696:ASN:ND2	1:7:393:PHE:HB3	111.80	0.49
1:E:585:GLN:H	1:N:487:GLN:HE22	243.66	0.49
1:R:501:PHE:HE2	1:7:449:THR:OG1	1.96	0.49
1:R:472:SER:O	1:Y:517:ILE:HG22	133.30	0.49
1:2:395:CYS:SG	1:2:397:GLU:HG2	2.53	0.49
1:E:395:CYS:SG	1:E:397:GLU:HG2	2.66	0.49
1:F:230:CYS:HA	1:F:242:THR:O	2.13	0.49
1:I:395:CYS:SG	1:I:397:GLU:HG2	2.52	0.49
1:P:247:TRP:HB3	1:P:371:PHE:CE1	2.48	0.49
1:M:359:HIS:CE1	1:6:436:ASN:H	151.99	0.49
1:O:287:ARG:HD2	1:P:442:TYR:CZ	2.48	0.49
1:K:472:SER:O	1:T:517:ILE:HG22	2.13	0.49
1:C:395:CYS:SG	1:C:397:GLU:HG2	2.53	0.49
1:E:470:GLY:O	1:E:473:VAL:HG22	2.13	0.49
1:O:270:ASP:O	1:P:472:SER:HB3	2.13	0.49
1:W:564:GLU:O	1:W:567:LYS:HG3	2.12	0.49
1:Q:322:LYS:CE	1:Q:335:ASN:HD21	2.24	0.49
1:D:322:LYS:HB2	1:D:674:TYR:CE1	2.48	0.49
1:6:498:ASN:O	1:6:499:SER:CB	2.61	0.49
1:U:423:SER:HB2	1:U:425:TYR:CE2	2.55	0.49
1:W:312:LEU:HD13	1:W:683:ILE:HG12	1.94	0.49
1:7:611:ASP:OD1	1:7:730:ARG:HG3	2.13	0.49
1:W:384:GLY:O	1:W:386:GLN:N	2.46	0.49
1:J:312:LEU:HD13	1:J:683:ILE:HG12	2.03	0.49
1:A:252:TYR:CZ	1:A:375:GLN:HB2	2.47	0.49
1:P:720:LEU:O	1:P:722:THR:HG22	2.12	0.49
1:S:246:THR:HG23	1:S:678:GLN:HE21	1.79	0.49
1:Z:578:GLY:O	1:Z:596:VAL:HG12	2.12	0.49
1:L:238:ARG:HH11	1:L:238:ARG:HG2	1.87	0.49
1:S:578:GLY:O	1:S:596:VAL:HG12	2.13	0.49
1:C:700:GLN:HA	1:C:700:GLN:HE21	1.78	0.49
1:M:219:ASP:O	1:M:220:GLY:O	2.30	0.49
1:H:623:PRO:HB3	1:W:736:LEU:HD22	120.06	0.49
1:B:487:GLN:NE2	1:O:585:GLN:H	216.80	0.48
1:I:405:ARG:H	1:I:408:ASN:ND2	2.04	0.48
1:C:519:ASN:CB	1:X:475:PRO:HA	174.94	0.48
1:J:395:CYS:SG	1:J:397:GLU:HG2	2.53	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:368:ALA:HB2	1:Y:397:GLU:HG3	1.95	0.48
1:Y:397:GLU:HG3	1:Z:368:ALA:HB2	52.54	0.48
1:X:379:LEU:HD13	1:I:437:PRO:HD3	1.95	0.48
1:F:527:HIS:NE2	1:F:564:GLU:CD	2.68	0.48
1:L:286:ASN:HD21	1:L:619:TRP:N	2.13	0.48
1:Y:441:GLN:HE22	1:Y:474:GLN:HB3	1.91	0.48
1:B:493:LYS:HE3	1:P:460:ASP:HA	224.35	0.48
1:X:527:HIS:NE2	1:X:564:GLU:CD	2.72	0.48
1:I:324:VAL:HB	1:I:333:ILE:HG23	1.98	0.48
1:5:297:TRP:CD1	1:5:301:ILE:CD1	2.96	0.48
1:X:459:LYS:O	1:X:460:ASP:CB	2.64	0.48
1:5:322:LYS:HB2	1:5:674:TYR:CE1	2.47	0.48
1:H:423:SER:HB2	1:H:425:TYR:CE2	2.48	0.48
1:G:555:LEU:C	1:G:555:LEU:HD23	2.40	0.48
1:U:426:ALA:O	1:U:733:THR:HA	2.17	0.48
1:L:622:ILE:CD1	1:L:631:PRO:HB2	2.48	0.48
1:H:312:LEU:HD13	1:H:683:ILE:HG12	1.94	0.48
1:Q:611:ASP:HB2	1:Q:730:ARG:NH1	2.29	0.48
1:J:398:TYR:OH	1:K:296:ASP:OD1	192.68	0.48
1:X:577:PHE:CE1	1:X:599:MET:HG2	2.48	0.48
1:D:444:TYR:CZ	1:D:465:ARG:HB3	2.52	0.48
1:Y:252:TYR:CZ	1:Y:375:GLN:HB2	2.47	0.48
1:I:577:PHE:CE1	1:I:599:MET:HG2	2.48	0.48
1:C:444:TYR:CZ	1:C:465:ARG:HB3	2.50	0.48
1:P:711:VAL:HB	1:P:714:THR:HG21	1.95	0.48
1:S:697:PRO:HD3	1:7:294:PRO:CB	2.43	0.48
1:N:503:TRP:C	1:N:503:TRP:CD1	2.91	0.48
1:Z:445:TYR:CD1	1:Z:445:TYR:N	2.81	0.48
1:H:305:TRP:CE3	1:H:734:ARG:NH2	2.81	0.48
1:N:578:GLY:O	1:N:596:VAL:HG12	2.16	0.48
1:G:309:PRO:HB2	1:G:416:PHE:CD2	2.55	0.48
1:C:398:TYR:OH	1:D:296:ASP:OD1	2.30	0.48
1:7:244:THR:HA	1:7:679:VAL:O	2.13	0.48
1:C:218:ALA:HB1	1:D:223:ASN:OD1	2.12	0.48
1:2:536:PRO:HG3	1:2:573:ALA:HB3	1.94	0.48
1:F:666:LYS:NZ	1:G:719:GLY:O	2.46	0.48
1:O:585:GLN:H	1:X:487:GLN:NE2	205.15	0.48
1:C:502:THR:O	1:C:506:ALA:HB2	2.13	0.48
1:I:438:LEU:HD23	1:I:438:LEU:N	2.28	0.48
1:H:475:PRO:HA	1:3:519:ASN:CB	2.41	0.48
1:M:436:ASN:H	1:S:359:HIS:CE1	175.28	0.48
1:C:517:ILE:CG2	1:R:473:VAL:HA	234.88	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:517:ILE:HG22	1:X:472:SER:O	2.13	0.48
1:I:359:HIS:CE1	1:J:436:ASN:H	66.50	0.48
1:F:245:ARG:NE	1:F:367:PRO:HA	2.34	0.48
1:5:470:GLY:O	1:5:473:VAL:HG22	2.13	0.48
1:X:297:TRP:CD1	1:X:301:ILE:CD1	2.96	0.48
1:W:542:ILE:CD1	1:W:560:ILE:HG13	2.39	0.48
1:2:519:ASN:CB	1:3:475:PRO:HA	2.40	0.48
1:N:475:PRO:HA	1:5:519:ASN:CB	222.11	0.48
1:U:527:HIS:NE2	1:U:564:GLU:CD	2.68	0.48
1:H:527:HIS:NE2	1:H:564:GLU:OE2	2.48	0.48
1:L:626:ASP:H	1:U:608:GLN:HE22	163.77	0.48
1:E:296:ASP:OD1	1:I:398:TYR:OH	101.12	0.48
1:K:693:LYS:HG3	1:U:399:PHE:CE2	162.29	0.48
1:Y:446:LEU:HD23	1:7:537:MET:HG3	142.20	0.48
1:R:262:SER:OG	1:R:272:HIS:HD2	2.03	0.48
1:C:598:VAL:HG23	1:R:580:VAL:HG11	240.57	0.48
1:B:484:TYR:CD1	1:B:598:VAL:HG22	2.48	0.48
1:Y:218:ALA:HB1	1:Z:223:ASN:OD1	76.12	0.48
1:C:309:PRO:HB2	1:C:416:PHE:CD2	2.48	0.48
1:T:536:PRO:HG3	1:T:573:ALA:HB3	1.97	0.48
1:3:321:VAL:HG11	1:3:339:SER:HB3	1.94	0.48
1:E:243:SER:O	1:E:680:SER:HA	2.12	0.48
1:X:317:PHE:N	1:X:317:PHE:CD2	2.81	0.48
1:N:580:VAL:HG11	1:R:598:VAL:HG23	195.76	0.48
1:W:238:ARG:HH11	1:W:238:ARG:HG2	1.77	0.48
1:I:295:ARG:O	1:I:298:GLN:HB3	2.21	0.48
1:A:707:LYS:HD2	1:E:386:GLN:NE2	2.28	0.48
1:D:501:PHE:H	1:U:449:THR:CG2	211.74	0.48
1:H:500:ASN:HA	1:2:449:THR:CG2	2.36	0.48
1:O:224:ALA:H	1:S:408:ASN:ND2	96.10	0.48
1:P:408:ASN:HD21	1:Q:224:ALA:N	1.97	0.48
1:I:501:PHE:CA	1:I:504:THR:HG22	2.45	0.48
1:K:408:ASN:ND2	1:L:224:ALA:H	2.00	0.48
1:N:527:HIS:NE2	1:N:532:ASP:OD1	2.52	0.48
1:D:519:ASN:HD22	1:D:520:PRO:CD	2.46	0.48
1:L:519:ASN:CB	1:T:475:PRO:HA	62.84	0.48
1:U:520:PRO:CG	1:U:635:MET:HG2	2.46	0.48
1:I:509:TYR:HB3	1:I:518:ILE:HD11	1.95	0.48
1:W:509:TYR:HD1	1:W:518:ILE:CD1	2.26	0.48
1:F:436:ASN:H	1:4:359:HIS:CE1	129.93	0.48
1:T:517:ILE:HD11	1:T:538:SER:CB	2.43	0.48
1:O:553:THR:HG23	1:O:557:ASN:CB	2.39	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:527:HIS:NE2	1:D:564:GLU:CD	2.68	0.48
1:B:450:GLN:OE1	1:V:499:SER:HA	2.13	0.48
1:C:622:ILE:HD12	1:C:631:PRO:HB2	1.94	0.48
1:O:262:SER:OG	1:O:272:HIS:HD2	1.96	0.48
1:C:423:SER:HB2	1:C:425:TYR:CE2	2.51	0.48
1:C:608:GLN:HA	1:N:626:ASP:HB2	128.19	0.48
1:2:527:HIS:NE2	1:2:564:GLU:OE2	2.40	0.48
1:Q:585:GLN:H	1:U:487:GLN:HE22	126.69	0.48
1:E:599:MET:HE2	1:N:484:TYR:CE1	219.57	0.48
1:L:384:GLY:O	1:L:386:GLN:N	2.47	0.48
1:B:529:ASP:H	1:P:512:ASN:HD21	204.23	0.48
1:E:398:TYR:OH	1:F:296:ASP:OD1	28.50	0.48
1:R:426:ALA:O	1:R:733:THR:HA	2.24	0.48
1:C:736:LEU:HD22	1:N:623:PRO:HB3	119.33	0.48
1:K:427:HIS:HE1	1:T:624:HIS:O	1.96	0.48
1:S:608:GLN:HE22	1:6:626:ASP:H	1.61	0.48
1:K:599:MET:HE2	1:U:484:TYR:CE1	193.65	0.48
1:I:516:SER:HB3	1:X:476:LYS:NZ	2.28	0.48
1:V:314:PHE:HB3	1:V:412:PHE:HD1	1.85	0.48
1:U:524:MET:HG2	1:U:571:PRO:HG2	1.94	0.48
1:L:309:PRO:HB2	1:L:416:PHE:CD2	2.54	0.48
1:S:243:SER:O	1:S:680:SER:HA	2.18	0.48
1:B:648:LEU:HD22	1:B:648:LEU:N	2.39	0.48
1:Q:720:LEU:O	1:Q:722:THR:HG22	2.20	0.48
1:B:305:TRP:CE3	1:B:734:ARG:NH2	2.86	0.48
1:A:309:PRO:HB2	1:A:416:PHE:CD2	2.63	0.48
1:4:254:ASN:O	1:4:255:HIS:HB2	2.13	0.48
1:Y:720:LEU:O	1:Y:722:THR:HG22	2.13	0.48
1:B:244:THR:HA	1:B:679:VAL:O	2.13	0.48
1:C:585:GLN:H	1:N:487:GLN:HE22	126.65	0.48
1:P:393:PHE:HB3	1:V:696:ASN:ND2	164.88	0.48
1:D:519:ASN:CB	1:U:475:PRO:HA	187.25	0.48
1:D:475:PRO:HA	1:W:519:ASN:CB	155.97	0.48
1:X:441:GLN:HE22	1:X:474:GLN:HB3	1.89	0.48
1:Y:290:CYS:HB2	1:Y:291:HIS:CD2	2.51	0.48
1:6:487:GLN:NE2	1:6:488:ARG:H	2.09	0.48
1:B:517:ILE:HG22	1:O:472:SER:O	195.65	0.48
1:J:322:LYS:O	1:J:673:GLN:HB2	2.15	0.48
1:O:324:VAL:HB	1:O:333:ILE:HG23	1.99	0.48
1:O:333:ILE:HD12	1:O:333:ILE:H	1.78	0.48
1:O:540:VAL:HG21	1:O:560:ILE:HG23	1.96	0.48
1:M:459:LYS:O	1:M:460:ASP:CB	2.65	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:630:HIS:N	1:Z:631:PRO:HD3	2.40	0.48
1:K:607:TRP:HD1	1:K:608:GLN:O	1.99	0.48
1:Y:457:GLN:HB3	1:O:498:ASN:HD21	1.79	0.48
1:T:301:ILE:HG12	1:T:729:THR:HA	1.98	0.48
1:I:615:GLN:NE2	1:I:726:PRO:HA	2.27	0.48
1:S:693:LYS:HG3	1:6:399:PHE:CE2	2.48	0.48
1:Q:265:THR:HG23	1:Q:267:ALA:H	1.77	0.48
1:P:250:PRO:HB3	1:T:658:PRO:HG2	1.95	0.48
1:7:272:HIS:HB3	1:7:384:GLY:HA2	1.95	0.48
1:Z:577:PHE:CE1	1:Z:599:MET:HG2	2.49	0.48
1:6:649:ILE:HG12	1:6:650:LYS:H	1.76	0.48
1:D:736:LEU:HD22	1:W:623:PRO:HB3	137.82	0.48
1:P:384:GLY:O	1:P:386:GLN:N	2.46	0.48
1:E:344:PHE:HB3	1:E:401:SER:CB	2.44	0.48
1:H:634:LEU:HB2	1:2:477:ASN:O	2.13	0.48
1:S:444:TYR:CZ	1:S:465:ARG:HB3	2.51	0.48
1:K:700:GLN:HE21	1:K:700:GLN:HA	1.84	0.48
1:V:503:TRP:CD1	1:V:503:TRP:C	2.93	0.48
1:D:238:ARG:HH11	1:D:238:ARG:HG2	1.88	0.48
1:1:578:GLY:O	1:1:596:VAL:HG12	2.13	0.48
1:C:247:TRP:HB3	1:C:371:PHE:CE1	2.50	0.48
1:E:290:CYS:HB2	1:E:291:HIS:CD2	2.52	0.48
1:Q:449:THR:OG1	1:U:501:PHE:HE2	123.73	0.48
1:M:449:THR:OG1	1:S:501:PHE:HE2	224.16	0.48
1:X:501:PHE:H	1:1:449:THR:CG2	2.25	0.48
1:X:501:PHE:N	1:X:501:PHE:HD2	2.10	0.48
1:D:449:THR:HG21	1:W:501:PHE:H	177.96	0.48
1:I:487:GLN:NE2	1:X:585:GLN:H	2.10	0.48
1:B:585:GLN:H	1:V:487:GLN:HE22	1.61	0.48
1:B:472:SER:HB3	1:P:270:ASP:O	205.42	0.48
1:Y:359:HIS:CE1	1:Z:436:ASN:H	2.30	0.48
1:X:395:CYS:SG	1:X:397:GLU:HG2	2.72	0.48
1:E:520:PRO:CG	1:E:635:MET:HG2	2.42	0.48
1:F:517:ILE:HD11	1:F:538:SER:CB	2.44	0.48
1:G:247:TRP:HB2	1:G:373:ILE:HD11	1.96	0.48
1:F:553:THR:HG23	1:F:557:ASN:CB	2.42	0.48
1:S:460:ASP:HA	1:6:493:LYS:HE3	1.96	0.48
1:I:527:HIS:HE2	1:I:564:GLU:CD	2.15	0.48
1:V:423:SER:CB	1:V:425:TYR:CE2	2.96	0.48
1:S:487:GLN:HE21	1:S:488:ARG:H	1.63	0.48
1:7:459:LYS:O	1:7:460:ASP:CB	2.61	0.48
1:Q:386:GLN:NE2	1:R:707:LYS:HD2	2.29	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:615:GLN:NE2	1:Y:726:PRO:HA	2.28	0.48
1:L:432:ASP:O	1:L:435:MET:HE3	2.28	0.48
1:K:609:ASP:O	1:K:730:ARG:NH2	2.52	0.48
1:3:609:ASP:O	1:3:730:ARG:NH2	2.40	0.48
1:4:312:LEU:HD12	1:4:313:ASN:N	2.27	0.48
1:F:725:ARG:HB2	1:F:726:PRO:HD2	1.96	0.48
1:Y:289:HIS:CD2	1:Y:365:PRO:HG3	2.49	0.48
1:Y:719:GLY:HA2	1:2:257:TYR:O	110.47	0.48
1:S:423:SER:CB	1:S:425:TYR:CE2	2.97	0.48
1:S:423:SER:HB2	1:S:425:TYR:CE2	2.52	0.48
1:N:299:ARG:NH1	1:6:690:GLU:OE2	157.13	0.48
1:O:599:MET:CE	1:O:602:LEU:HD11	2.44	0.48
1:A:722:THR:O	1:A:724:PRO:HD3	2.19	0.48
1:7:327:ASN:O	1:7:328:ASP:HB2	2.14	0.48
1:Y:296:ASP:OD1	1:2:398:TYR:OH	95.77	0.48
1:6:720:LEU:O	1:6:722:THR:HG22	2.14	0.48
1:C:720:LEU:O	1:C:722:THR:HG22	2.20	0.48
1:C:503:TRP:C	1:C:503:TRP:CD1	2.93	0.48
1:Q:238:ARG:HH11	1:Q:238:ARG:HG2	1.78	0.48
1:R:722:THR:O	1:R:724:PRO:HD3	2.13	0.48
1:A:449:THR:OG1	1:Z:501:PHE:HE2	158.02	0.48
1:A:359:HIS:HA	1:Q:441:GLN:HA	189.66	0.48
1:D:438:LEU:HD23	1:D:438:LEU:N	2.29	0.48
1:A:542:ILE:CD1	1:A:560:ILE:HG13	2.60	0.48
1:F:441:GLN:HE22	1:F:474:GLN:HB3	1.84	0.48
1:B:527:HIS:HE2	1:B:564:GLU:CD	2.27	0.48
1:X:359:HIS:CE1	1:1:436:ASN:HB3	2.48	0.48
1:A:270:ASP:HA	1:A:514:ARG:HB2	1.94	0.48
1:A:509:TYR:CD1	1:A:518:ILE:HD13	2.40	0.48
1:L:517:ILE:HD11	1:L:538:SER:CB	2.46	0.48
1:O:486:GLN:NE2	1:O:538:SER:H	2.09	0.48
1:O:333:ILE:HG21	1:O:674:TYR:HE1	1.78	0.48
1:Z:399:PHE:CZ	1:O:693:LYS:HG3	2.49	0.48
1:H:536:PRO:HG3	1:H:573:ALA:HB3	1.99	0.48
1:L:487:GLN:HE22	1:T:585:GLN:H	61.29	0.48
1:F:289:HIS:NE2	1:F:365:PRO:HG3	2.28	0.48
1:G:459:LYS:O	1:G:460:ASP:CB	2.65	0.48
1:L:566:ILE:HG13	1:L:570:ASN:HB2	1.96	0.48
1:K:498:ASN:O	1:K:499:SER:CB	2.62	0.48
1:2:624:HIS:O	1:3:427:HIS:HE1	1.97	0.48
1:O:700:GLN:HE21	1:O:700:GLN:HA	1.84	0.48
1:H:544:GLY:HA2	1:2:444:TYR:CE1	2.49	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:444:TYR:CZ	1:W:465:ARG:HB3	2.49	0.48
1:L:501:PHE:HD2	1:L:501:PHE:N	2.06	0.48
1:G:487:GLN:HE22	1:4:585:GLN:H	1.59	0.48
1:C:506:ALA:HA	1:C:537:MET:HE1	1.95	0.48
1:Y:487:GLN:HE21	1:Y:488:ARG:H	1.64	0.48
1:V:408:ASN:HD21	1:W:224:ALA:N	2.02	0.48
1:I:472:SER:O	1:1:517:ILE:HG22	2.14	0.48
1:J:517:ILE:CG2	1:V:473:VAL:HA	124.11	0.48
1:K:441:GLN:HA	1:U:359:HIS:HA	191.06	0.48
1:Q:475:PRO:HA	1:U:519:ASN:CB	114.49	0.48
1:S:519:ASN:CB	1:T:475:PRO:HA	78.59	0.48
1:J:252:TYR:CZ	1:J:375:GLN:HB2	2.51	0.48
1:B:395:CYS:SG	1:B:397:GLU:HG2	2.54	0.48
1:N:286:ASN:HD21	1:N:618:ILE:N	2.17	0.48
1:E:359:HIS:HA	1:F:441:GLN:HA	1.96	0.48
1:V:286:ASN:HD21	1:V:618:ILE:N	2.10	0.48
1:Y:286:ASN:HD22	1:Y:286:ASN:C	2.16	0.48
1:6:486:GLN:HE22	1:6:538:SER:H	1.62	0.48
1:E:297:TRP:CD1	1:E:301:ILE:CD1	2.99	0.48
1:I:498:ASN:HD21	1:J:457:GLN:HB3	105.52	0.48
1:H:423:SER:HB3	1:3:626:ASP:OD2	2.14	0.48
1:A:423:SER:HB3	1:Z:626:ASP:OD2	138.30	0.48
1:O:555:LEU:HD23	1:O:555:LEU:C	2.34	0.48
1:N:272:HIS:HB3	1:N:384:GLY:HA2	1.98	0.48
1:1:397:GLU:HG3	1:2:368:ALA:HB2	1.96	0.48
1:A:287:ARG:HD2	1:Q:442:TYR:CZ	182.96	0.48
1:2:384:GLY:O	1:2:386:GLN:N	2.47	0.48
1:R:630:HIS:N	1:R:631:PRO:HD3	2.29	0.48
1:4:270:ASP:HA	1:4:514:ARG:HB2	1.96	0.48
1:E:693:LYS:HG3	1:N:399:PHE:CZ	181.07	0.48
1:Y:690:GLU:OE2	1:1:299:ARG:NH1	2.47	0.48
1:V:444:TYR:CE2	1:V:465:ARG:HB3	2.48	0.48
1:Z:599:MET:HE3	1:Z:602:LEU:CD1	2.52	0.48
1:H:649:ILE:HG12	1:H:650:LYS:H	1.79	0.48
1:H:614:LEU:HD12	1:H:614:LEU:O	2.20	0.48
1:U:700:GLN:HA	1:U:700:GLN:HE21	1.78	0.48
1:D:700:GLN:HA	1:D:700:GLN:HE21	1.83	0.48
1:4:321:VAL:HG11	1:4:339:SER:HB3	1.94	0.48
1:6:398:TYR:OH	1:7:296:ASP:OD1	2.32	0.48
1:K:722:THR:O	1:K:724:PRO:HD3	2.24	0.48
1:X:305:TRP:CE3	1:X:734:ARG:NH2	2.81	0.48
1:4:615:GLN:HE22	1:4:726:PRO:HA	1.79	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:501:PHE:CA	1:D:504:THR:HG22	2.52	0.48
1:E:446:LEU:HD13	1:E:463:PHE:CE2	2.54	0.48
1:C:446:LEU:HD23	1:N:537:MET:HG3	117.96	0.48
1:T:527:HIS:ND1	1:T:527:HIS:O	2.47	0.48
1:Z:501:PHE:N	1:Z:501:PHE:HD2	2.11	0.48
1:1:408:ASN:HD21	1:2:224:ALA:N	1.99	0.48
1:K:527:HIS:NE2	1:K:532:ASP:OD1	2.54	0.48
1:I:472:SER:HB3	1:V:270:ASP:O	136.01	0.48
1:A:368:ALA:HB2	1:Z:397:GLU:HG3	177.58	0.48
1:F:230:CYS:HB3	1:J:397:GLU:O	2.13	0.48
1:X:397:GLU:HB2	1:Y:367:PRO:HB2	1.94	0.48
1:4:486:GLN:O	1:4:574:THR:HA	2.13	0.48
1:1:438:LEU:O	1:1:439:ILE:HD13	2.14	0.48
1:C:441:GLN:HA	1:N:359:HIS:HA	108.02	0.48
1:B:286:ASN:HD21	1:B:618:ILE:N	2.12	0.48
1:L:297:TRP:CD1	1:L:301:ILE:CD1	2.98	0.48
1:B:297:TRP:CD1	1:B:301:ILE:CD1	2.97	0.48
1:2:486:GLN:HE22	1:2:538:SER:H	1.60	0.48
1:C:450:GLN:OE1	1:N:499:SER:HA	132.17	0.48
1:T:542:ILE:CD1	1:T:560:ILE:HG13	2.42	0.48
1:U:498:ASN:O	1:U:499:SER:CB	2.61	0.48
1:M:498:ASN:HD21	1:S:457:GLN:HB3	224.64	0.48
1:K:272:HIS:HB3	1:K:384:GLY:HA2	1.96	0.48
1:Z:553:THR:HG23	1:Z:557:ASN:CB	2.42	0.48
1:U:272:HIS:CB	1:U:384:GLY:HA2	2.43	0.48
1:W:615:GLN:NE2	1:W:726:PRO:HA	2.27	0.48
1:N:384:GLY:O	1:N:386:GLN:N	2.59	0.48
1:I:643:PRO:O	1:I:644:PRO:C	2.59	0.48
1:4:444:TYR:CE2	1:4:465:ARG:HB3	2.49	0.48
1:Y:444:TYR:CE2	1:Y:465:ARG:HB3	2.48	0.48
1:S:218:ALA:HB1	1:T:223:ASN:OD1	2.13	0.48
1:Z:649:ILE:HG12	1:Z:650:LYS:N	2.29	0.48
1:L:634:LEU:HB2	1:T:477:ASN:O	61.91	0.48
1:Q:722:THR:O	1:Q:724:PRO:HD3	2.16	0.48
1:C:247:TRP:HB2	1:C:373:ILE:HD11	2.07	0.48
1:M:305:TRP:CE3	1:M:734:ARG:NH2	2.87	0.48
1:E:536:PRO:HG3	1:E:573:ALA:HB3	1.96	0.48
1:W:349:TYR:OH	1:W:643:PRO:O	2.37	0.48
1:B:541:MET:HE3	1:P:443:LEU:HD11	188.50	0.48
1:E:586:SER:O	1:G:497:ASN:HB2	59.84	0.48
1:I:477:ASN:O	1:1:634:LEU:HB2	2.14	0.48
1:A:507:SER:HA	1:W:579:THR:O	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:449:THR:OG1	1:U:501:PHE:HE2	224.07	0.48
1:I:501:PHE:H	1:J:449:THR:HG21	95.93	0.48
1:V:504:THR:CG2	1:V:505:GLY:N	2.89	0.48
1:K:527:HIS:NE2	1:K:562:ASP:OD1	2.43	0.48
1:N:527:HIS:NE2	1:N:564:GLU:CD	2.73	0.48
1:J:252:TYR:OH	1:J:373:ILE:O	2.27	0.48
1:L:366:PHE:CE2	1:L:368:ALA:HB3	2.49	0.48
1:C:286:ASN:HD21	1:C:619:TRP:N	2.05	0.48
1:4:438:LEU:N	1:4:438:LEU:HD23	2.29	0.48
1:O:442:TYR:CZ	1:X:287:ARG:HD2	159.69	0.48
1:X:486:GLN:O	1:X:574:THR:HA	2.14	0.48
1:Z:297:TRP:CD1	1:Z:301:ILE:CD1	3.00	0.48
1:J:322:LYS:HB2	1:J:674:TYR:CE1	2.48	0.48
1:M:611:ASP:HB2	1:M:730:ARG:NH1	2.29	0.48
1:E:460:ASP:HA	1:G:493:LYS:HE3	49.82	0.48
1:M:450:GLN:OE1	1:S:499:SER:HA	230.60	0.48
1:H:527:HIS:CE1	1:H:532:ASP:OD1	2.74	0.48
1:Z:611:ASP:HB2	1:Z:730:ARG:NH1	2.29	0.48
1:E:355:LEU:CD2	1:E:646:GLN:HG2	2.44	0.48
1:J:296:ASP:OD1	1:N:398:TYR:OH	178.99	0.48
1:5:498:ASN:O	1:5:499:SER:CB	2.62	0.48
1:T:386:GLN:NE2	1:U:707:LYS:HD2	186.16	0.48
1:6:312:LEU:HD12	1:6:313:ASN:N	2.29	0.48
1:P:512:ASN:HD21	1:V:529:ASP:H	184.28	0.48
1:B:384:GLY:O	1:B:386:GLN:N	2.46	0.48
1:M:626:ASP:H	1:6:608:GLN:NE2	166.58	0.48
1:3:577:PHE:CE1	1:3:599:MET:HG2	2.48	0.48
1:L:219:ASP:O	1:L:220:GLY:O	2.32	0.48
1:A:578:GLY:O	1:A:596:VAL:HG12	2.25	0.48
1:S:244:THR:HA	1:S:679:VAL:O	2.15	0.48
1:4:305:TRP:CE3	1:4:734:ARG:NH2	2.82	0.48
1:X:238:ARG:HH11	1:X:238:ARG:HG2	1.87	0.48
1:W:249:LEU:HD23	1:W:651:ASN:OD1	2.14	0.48
1:D:501:PHE:H	1:H:449:THR:HG21	220.27	0.48
1:T:501:PHE:HD2	1:T:501:PHE:N	2.06	0.48
1:N:502:THR:O	1:N:506:ALA:HB2	2.14	0.48
1:T:408:ASN:HD21	1:U:224:ALA:N	151.39	0.48
1:C:487:GLN:HE22	1:R:585:GLN:H	255.14	0.48
1:P:501:PHE:HE2	1:V:449:THR:OG1	220.35	0.48
1:B:442:TYR:HD2	1:V:359:HIS:O	1.97	0.48
1:B:437:PRO:HD3	1:V:379:LEU:HD13	1.96	0.48
1:V:486:GLN:HE22	1:V:538:SER:N	2.08	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:517:ILE:HD11	1:N:538:SER:CB	2.47	0.48
1:S:658:PRO:HG2	1:T:250:PRO:HB3	1.96	0.48
1:O:564:GLU:O	1:O:567:LYS:HG3	2.28	0.48
1:2:297:TRP:CD1	1:2:301:ILE:CD1	2.97	0.48
1:M:630:HIS:N	1:M:631:PRO:HD3	2.48	0.48
1:O:459:LYS:O	1:O:460:ASP:CB	2.65	0.48
1:B:450:GLN:OE1	1:P:499:SER:HA	230.03	0.48
1:1:622:ILE:HD12	1:1:631:PRO:HB2	1.95	0.48
1:F:301:ILE:CD1	1:F:728:GLY:O	2.62	0.48
1:H:423:SER:CB	1:H:425:TYR:CE2	2.97	0.48
1:3:245:ARG:NE	1:3:367:PRO:HA	2.28	0.48
1:7:395:CYS:SG	1:7:397:GLU:HG2	2.54	0.48
1:B:626:ASP:HB2	1:O:608:GLN:HA	160.50	0.48
1:W:559:MET:SD	1:W:725:ARG:HA	2.54	0.48
1:E:426:ALA:O	1:E:733:THR:HA	2.14	0.48
1:O:629:PHE:O	1:O:630:HIS:C	2.52	0.48
1:R:247:TRP:HB3	1:R:371:PHE:CE1	2.48	0.48
1:H:349:TYR:CE2	1:H:643:PRO:HD2	2.85	0.48
1:I:327:ASN:O	1:I:328:ASP:HB2	2.13	0.48
1:B:360:GLN:NE2	1:O:440:ASP:HB2	192.12	0.48
1:Z:384:GLY:O	1:Z:386:GLN:N	2.57	0.48
1:X:309:PRO:HB2	1:X:416:PHE:CD2	2.49	0.48
1:O:445:TYR:N	1:O:445:TYR:CD1	2.82	0.48
1:M:324:VAL:HB	1:M:333:ILE:HG23	1.98	0.48
1:L:720:LEU:O	1:L:722:THR:HG22	2.20	0.48
1:D:501:PHE:HD2	1:D:501:PHE:N	2.11	0.47
1:B:501:PHE:HD2	1:B:501:PHE:N	2.09	0.47
1:I:447:ASN:O	1:1:502:THR:HG21	2.14	0.47
1:7:564:GLU:O	1:7:567:LYS:HG3	2.13	0.47
1:B:432:ASP:O	1:B:435:MET:HE3	2.15	0.47
1:I:277:SER:HB2	1:X:438:LEU:HD11	1.95	0.47
1:D:257:TYR:O	1:Z:719:GLY:HA2	193.24	0.47
1:E:245:ARG:NE	1:E:367:PRO:HA	2.32	0.47
1:F:247:TRP:HB3	1:F:371:PHE:CE1	2.52	0.47
1:Y:472:SER:O	1:O:517:ILE:HG22	2.14	0.47
1:M:519:ASN:CB	1:S:475:PRO:HA	187.19	0.47
1:B:486:GLN:NE2	1:B:539:GLY:N	2.60	0.47
1:M:245:ARG:NE	1:M:367:PRO:HA	2.29	0.47
1:Y:333:ILE:HG21	1:Y:674:TYR:HE1	1.85	0.47
1:Q:286:ASN:HD22	1:Q:286:ASN:C	2.28	0.47
1:Q:297:TRP:CD1	1:Q:301:ILE:HD11	2.54	0.47
1:Q:438:LEU:N	1:Q:438:LEU:HD23	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:529:ASP:H	1:3:512:ASN:HD21	1.60	0.47
1:Y:499:SER:HA	1:Z:450:GLN:OE1	2.13	0.47
1:L:498:ASN:O	1:L:499:SER:CB	2.62	0.47
1:D:626:ASP:H	1:U:608:GLN:HE22	172.52	0.47
1:S:629:PHE:O	1:S:630:HIS:C	2.52	0.47
1:S:553:THR:HG23	1:S:557:ASN:CB	2.45	0.47
1:C:607:TRP:HD1	1:C:608:GLN:O	1.96	0.47
1:1:397:GLU:HB2	1:2:367:PRO:CB	2.43	0.47
1:1:562:ASP:CG	1:1:564:GLU:HG3	2.34	0.47
1:A:577:PHE:CE1	1:A:599:MET:HG2	2.52	0.47
1:M:626:ASP:H	1:S:608:GLN:HE22	172.45	0.47
1:K:599:MET:HE2	1:U:484:TYR:CD1	192.58	0.47
1:I:649:ILE:HG12	1:I:650:LYS:N	2.37	0.47
1:Q:484:TYR:CD1	1:Q:598:VAL:HG22	2.63	0.47
1:G:624:HIS:O	1:4:427:HIS:HE1	1.96	0.47
1:H:666:LYS:NZ	1:I:719:GLY:O	2.47	0.47
1:G:280:TRP:CE2	1:G:650:LYS:HD2	2.52	0.47
1:H:545:LYS:O	1:H:546:GLU:HB2	2.24	0.47
1:M:578:GLY:O	1:M:596:VAL:HG12	2.21	0.47
1:B:427:HIS:HE1	1:P:624:HIS:O	173.36	0.47
1:E:720:LEU:O	1:E:722:THR:HG22	2.22	0.47
1:H:524:MET:HG2	1:H:571:PRO:HG2	1.96	0.47
1:B:219:ASP:O	1:B:220:GLY:O	2.32	0.47
1:E:294:PRO:CB	1:H:697:PRO:HD3	134.45	0.47
1:F:393:PHE:HB3	1:G:696:ASN:ND2	32.58	0.47
1:V:527:HIS:CE1	1:V:532:ASP:OD1	2.73	0.47
1:E:501:PHE:HA	1:E:504:THR:CG2	2.43	0.47
1:V:517:ILE:HD11	1:V:538:SER:CB	2.44	0.47
1:Q:520:PRO:CG	1:Q:635:MET:HG2	2.43	0.47
1:C:359:HIS:CE1	1:R:436:ASN:H	213.69	0.47
1:R:470:GLY:O	1:R:473:VAL:HG22	2.20	0.47
1:D:517:ILE:HG22	1:H:472:SER:O	192.17	0.47
1:B:701:TYR:CE1	1:B:727:ILE:HD13	2.50	0.47
1:Z:286:ASN:ND2	1:Z:618:ILE:HB	2.34	0.47
1:2:508:LYS:HA	1:2:518:ILE:HG12	1.96	0.47
1:N:498:ASN:O	1:N:499:SER:CB	2.63	0.47
1:Q:498:ASN:O	1:Q:499:SER:CB	2.61	0.47
1:D:457:GLN:HB3	1:W:498:ASN:HD21	191.49	0.47
1:H:493:LYS:HE3	1:W:460:ASP:HA	143.50	0.47
1:I:527:HIS:NE2	1:I:562:ASP:OD1	2.54	0.47
1:A:527:HIS:CE1	1:A:532:ASP:OD1	2.76	0.47
1:L:431:LEU:HD23	1:L:431:LEU:O	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:487:GLN:HE21	1:T:488:ARG:H	1.68	0.47
1:A:384:GLY:C	1:A:386:GLN:H	2.24	0.47
1:A:487:GLN:NE2	1:Q:585:GLN:H	211.65	0.47
1:1:322:LYS:O	1:1:673:GLN:HB2	2.14	0.47
1:P:301:ILE:HG12	1:P:729:THR:HA	2.03	0.47
1:2:499:SER:HA	1:3:450:GLN:OE1	2.14	0.47
1:3:426:ALA:O	1:3:733:THR:HA	2.14	0.47
1:F:693:LYS:HG3	1:4:399:PHE:CE2	120.11	0.47
1:L:272:HIS:HB3	1:L:384:GLY:HA2	1.97	0.47
1:R:265:THR:HG23	1:R:267:ALA:H	1.79	0.47
1:F:626:ASP:H	1:G:608:GLN:HE22	43.60	0.47
1:D:287:ARG:HG3	1:D:616:GLY:O	2.14	0.47
1:G:438:LEU:HD23	1:G:438:LEU:N	2.32	0.47
1:A:227:ASN:HD21	1:E:402:GLN:HG3	1.78	0.47
1:B:736:LEU:HD22	1:P:623:PRO:HB3	177.31	0.47
1:E:427:HIS:O	1:G:381:LEU:HD11	98.24	0.47
1:Z:246:THR:HG23	1:Z:678:GLN:NE2	2.33	0.47
1:4:725:ARG:HB2	1:4:726:PRO:HD2	1.95	0.47
1:G:257:TYR:O	1:H:719:GLY:HA2	2.23	0.47
1:S:317:PHE:CD2	1:S:317:PHE:N	2.82	0.47
1:2:327:ASN:O	1:2:328:ASP:HB2	2.14	0.47
1:I:440:ASP:HB2	1:1:360:GLN:NE2	2.28	0.47
1:F:326:THR:O	1:F:326:THR:HG23	2.21	0.47
1:P:648:LEU:N	1:P:648:LEU:HD22	2.32	0.47
1:M:717:ASN:ND2	1:M:717:ASN:H	2.18	0.47
1:R:648:LEU:HD22	1:R:648:LEU:N	2.32	0.47
1:D:252:TYR:CZ	1:D:375:GLN:HB2	2.49	0.47
1:P:578:GLY:O	1:P:596:VAL:HG12	2.19	0.47
1:L:360:GLN:NE2	1:T:440:ASP:HB2	68.16	0.47
1:S:501:PHE:HD2	1:S:501:PHE:N	2.07	0.47
1:U:502:THR:O	1:U:506:ALA:HB2	2.15	0.47
1:R:449:THR:CG2	1:Y:500:ASN:HA	146.56	0.47
1:1:501:PHE:CA	1:1:504:THR:HG22	2.44	0.47
1:R:527:HIS:NE2	1:R:564:GLU:CD	2.67	0.47
1:P:509:TYR:HB3	1:P:518:ILE:HD11	1.96	0.47
1:I:520:PRO:HD3	1:X:475:PRO:HB3	1.96	0.47
1:E:280:TRP:CE2	1:E:650:LYS:HD2	2.56	0.47
1:B:257:TYR:OH	1:B:397:GLU:OE2	2.52	0.47
1:M:357:SER:HB2	1:M:359:HIS:CD2	2.56	0.47
1:1:435:MET:HG2	1:1:474:GLN:OE1	2.14	0.47
1:W:286:ASN:HD21	1:W:618:ILE:H	1.58	0.47
1:5:245:ARG:NE	1:5:367:PRO:HA	2.28	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:493:LYS:HE3	1:V:460:ASP:HA	226.43	0.47
1:R:459:LYS:O	1:R:460:ASP:CB	2.62	0.47
1:D:487:GLN:HE22	1:H:585:GLN:H	221.33	0.47
1:S:487:GLN:NE2	1:T:585:GLN:H	103.26	0.47
1:3:297:TRP:CD1	1:3:301:ILE:HD11	2.48	0.47
1:1:272:HIS:CB	1:1:384:GLY:HA2	2.44	0.47
1:F:379:LEU:HD13	1:G:437:PRO:HD3	56.28	0.47
1:3:609:ASP:OD2	1:3:630:HIS:HE1	1.97	0.47
1:V:426:ALA:O	1:V:733:THR:HA	2.14	0.47
1:A:598:VAL:HG23	1:Q:580:VAL:HG11	197.84	0.47
1:T:218:ALA:HB1	1:U:223:ASN:OD1	146.80	0.47
1:G:383:ASN:O	1:G:384:GLY:O	2.32	0.47
1:H:239:VAL:HG12	1:H:685:TRP:HB2	2.09	0.47
1:H:722:THR:O	1:H:724:PRO:HD3	2.14	0.47
1:O:252:TYR:CZ	1:O:375:GLN:HB2	2.56	0.47
1:O:722:THR:O	1:O:724:PRO:HD3	2.33	0.47
1:T:566:ILE:HG13	1:T:570:ASN:HB2	1.95	0.47
1:7:720:LEU:O	1:7:722:THR:HG22	2.14	0.47
1:Y:317:PHE:N	1:Y:317:PHE:CD2	2.94	0.47
1:N:243:SER:O	1:N:680:SER:HA	2.25	0.47
1:C:446:LEU:HD13	1:C:463:PHE:CE2	2.50	0.47
1:N:408:ASN:ND2	1:O:224:ALA:H	2.07	0.47
1:J:585:GLN:H	1:W:487:GLN:NE2	2.13	0.47
1:Z:501:PHE:CA	1:Z:504:THR:HG22	2.45	0.47
1:D:475:PRO:HA	1:Q:519:ASN:CB	225.46	0.47
1:Q:270:ASP:HA	1:Q:514:ARG:HB2	1.96	0.47
1:B:359:HIS:HA	1:O:441:GLN:HA	185.63	0.47
1:V:333:ILE:HG21	1:V:674:TYR:HE1	1.79	0.47
1:R:357:SER:HB2	1:R:359:HIS:CD2	2.49	0.47
1:V:553:THR:HG23	1:V:557:ASN:CB	2.43	0.47
1:X:540:VAL:HG21	1:X:560:ILE:HG23	1.96	0.47
1:3:527:HIS:NE2	1:3:564:GLU:CD	2.67	0.47
1:R:497:ASN:OD1	1:R:498:ASN:O	2.38	0.47
1:M:442:TYR:CZ	1:T:287:ARG:HD2	155.45	0.47
1:I:399:PHE:CE2	1:J:693:LYS:HG3	38.22	0.47
1:C:312:LEU:HD12	1:C:313:ASN:N	2.27	0.47
1:7:611:ASP:HB2	1:7:730:ARG:NH1	2.30	0.47
1:Y:437:PRO:HD3	1:0:379:LEU:HD13	1.96	0.47
1:J:312:LEU:HD12	1:J:313:ASN:N	2.29	0.47
1:1:535:PHE:HD1	1:1:536:PRO:O	1.97	0.47
1:Z:384:GLY:C	1:Z:386:GLN:H	2.21	0.47
1:U:720:LEU:O	1:U:722:THR:HG22	2.20	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:252:TYR:CE1	1:V:375:GLN:HB2	2.49	0.47
1:L:218:ALA:HB1	1:M:223:ASN:OD1	2.21	0.47
1:Q:244:THR:HA	1:Q:679:VAL:O	2.14	0.47
1:Z:524:MET:HG2	1:Z:571:PRO:HG2	1.96	0.47
1:P:536:PRO:HG3	1:P:573:ALA:HB3	2.00	0.47
1:A:445:TYR:N	1:A:445:TYR:CD1	2.88	0.47
1:K:712:ASP:O	1:K:713:PHE:HB2	2.14	0.47
1:C:290:CYS:HB2	1:C:291:HIS:CD2	2.50	0.47
1:3:250:PRO:HB3	1:7:658:PRO:HG2	1.95	0.47
1:D:355:LEU:HD23	1:D:646:GLN:HG2	1.95	0.47
1:H:501:PHE:HA	1:H:504:THR:CG2	2.44	0.47
1:F:500:ASN:HA	1:G:449:THR:CG2	96.44	0.47
1:Y:449:THR:OG1	1:O:501:PHE:HE2	1.97	0.47
1:I:437:PRO:HB3	1:I:379:LEU:CD1	2.43	0.47
1:I:397:GLU:HG3	1:J:368:ALA:HB2	1.95	0.47
1:C:442:TYR:CZ	1:N:287:ARG:HD2	96.75	0.47
1:L:527:HIS:NE2	1:L:532:ASP:OD1	2.51	0.47
1:3:517:ILE:HD11	1:3:538:SER:CB	2.44	0.47
1:J:701:TYR:CE1	1:J:727:ILE:HD13	2.49	0.47
1:Z:527:HIS:NE2	1:Z:564:GLU:CD	2.73	0.47
1:R:395:CYS:SG	1:R:397:GLU:HG2	2.66	0.47
1:C:431:LEU:HD23	1:C:431:LEU:O	2.13	0.47
1:Z:301:ILE:HG12	1:Z:729:THR:HA	1.97	0.47
1:H:301:ILE:HG12	1:H:729:THR:HA	1.97	0.47
1:Q:527:HIS:ND1	1:Q:527:HIS:O	2.60	0.47
1:B:498:ASN:HD21	1:O:457:GLN:HB3	233.82	0.47
1:G:532:ASP:OD1	1:G:564:GLU:OE2	2.33	0.47
1:D:498:ASN:HD21	1:H:457:GLN:HB3	236.85	0.47
1:L:499:SER:HA	1:T:450:GLN:OE1	68.31	0.47
1:M:493:LYS:HE3	1:6:460:ASP:HA	171.94	0.47
1:S:611:ASP:HB2	1:S:730:ARG:NH1	2.33	0.47
1:N:442:TYR:CZ	1:R:287:ARG:HD2	171.05	0.47
1:J:314:PHE:HB3	1:J:412:PHE:HD1	1.79	0.47
1:K:599:MET:HE2	1:T:484:TYR:CD1	2.50	0.47
1:N:295:ARG:NH1	1:S:690:GLU:OE2	169.44	0.47
1:I:246:THR:HG23	1:I:678:GLN:NE2	2.29	0.47
1:E:484:TYR:CE1	1:F:599:MET:HE2	2.49	0.47
1:D:218:ALA:HB1	1:Z:223:ASN:OD1	148.11	0.47
1:N:720:LEU:O	1:N:722:THR:HG22	2.20	0.47
1:C:344:PHE:HB3	1:C:401:SER:HB3	1.97	0.47
1:I:566:ILE:HG13	1:I:570:ASN:HB2	1.96	0.47
1:5:326:THR:HG23	1:5:326:THR:O	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:5:238:ARG:HG2	1:5:238:ARG:HH11	1.79	0.47
1:B:700:GLN:HA	1:B:700:GLN:HE21	1.83	0.47
1:J:310:LYS:HA	1:J:310:LYS:HD2	1.89	0.47
1:U:305:TRP:CE3	1:U:734:ARG:NH2	2.82	0.47
1:Q:295:ARG:O	1:Q:298:GLN:HB3	2.14	0.47
1:7:219:ASP:O	1:7:220:GLY:O	2.33	0.47
1:I:393:PHE:N	1:X:696:ASN:HD21	1.89	0.47
1:Q:405:ARG:H	1:Q:408:ASN:ND2	2.04	0.47
1:E:501:PHE:HE2	1:F:449:THR:OG1	1.95	0.47
1:R:436:ASN:H	1:Y:359:HIS:CE1	122.70	0.47
1:O:397:GLU:O	1:P:230:CYS:HB3	45.45	0.47
1:4:509:TYR:CD1	1:4:518:ILE:HD13	2.37	0.47
1:5:405:ARG:H	1:5:408:ASN:ND2	2.04	0.47
1:F:333:ILE:HG21	1:F:674:TYR:HE1	1.79	0.47
1:C:441:GLN:NE2	1:C:474:GLN:HB3	2.28	0.47
1:E:435:MET:HE2	1:E:471:MET:HB3	2.11	0.47
1:T:250:PRO:HB3	1:X:658:PRO:HG2	184.51	0.47
1:Q:322:LYS:CE	1:Q:335:ASN:ND2	2.75	0.47
1:Z:498:ASN:HD21	1:O:457:GLN:HB3	1.79	0.47
1:E:690:GLU:OE2	1:J:299:ARG:NH1	111.06	0.47
1:K:299:ARG:NH1	1:P:690:GLU:OE2	2.47	0.47
1:A:529:ASP:H	1:J:512:ASN:HD21	1.61	0.47
1:N:555:LEU:C	1:N:555:LEU:HD23	2.34	0.47
1:T:426:ALA:O	1:T:733:THR:HA	2.14	0.47
1:L:444:TYR:CE2	1:L:465:ARG:HB3	2.50	0.47
1:N:577:PHE:CE1	1:N:599:MET:HG2	2.56	0.47
1:U:649:ILE:HG12	1:U:650:LYS:N	2.29	0.47
1:L:649:ILE:HG12	1:L:650:LYS:N	2.34	0.47
1:N:305:TRP:CE3	1:N:734:ARG:NH2	2.82	0.47
1:F:305:TRP:CE3	1:F:734:ARG:NH2	2.82	0.47
1:5:295:ARG:O	1:5:298:GLN:HB3	2.14	0.47
1:2:247:TRP:HB3	1:2:371:PHE:CE1	2.49	0.47
1:C:272:HIS:HB3	1:C:384:GLY:HA2	1.99	0.47
1:7:432:ASP:O	1:7:435:MET:HE3	2.14	0.47
1:P:243:SER:O	1:P:680:SER:HA	2.14	0.47
1:I:464:SER:HB3	1:1:551:SER:CA	2.36	0.47
1:B:501:PHE:HE2	1:P:449:THR:OG1	219.38	0.47
1:C:449:THR:CG2	1:N:500:ASN:HA	127.90	0.47
1:B:502:THR:HG23	1:O:449:THR:HG22	216.86	0.47
1:B:501:PHE:HA	1:B:504:THR:CG2	2.58	0.47
1:E:449:THR:OG1	1:N:501:PHE:HE2	249.39	0.47
1:P:405:ARG:H	1:P:408:ASN:ND2	2.08	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:501:PHE:H	1:Z:449:THR:CG2	2.28	0.47
1:I:449:THR:OG1	1:V:501:PHE:HE2	146.18	0.47
1:W:408:ASN:HD21	1:X:224:ALA:N	1.99	0.47
1:Y:449:THR:CG2	1:O:500:ASN:HA	2.38	0.47
1:K:487:GLN:NE2	1:L:585:GLN:H	103.29	0.47
1:F:408:ASN:HD21	1:G:224:ALA:N	2.04	0.47
1:I:509:TYR:CD1	1:I:518:ILE:HD13	2.39	0.47
1:V:509:TYR:CD1	1:V:518:ILE:HD13	2.40	0.47
1:K:475:PRO:HA	1:U:519:ASN:CB	194.45	0.47
1:L:357:SER:HB2	1:L:359:HIS:CD2	2.50	0.47
1:J:438:LEU:HD11	1:W:277:SER:HB2	1.96	0.47
1:P:247:TRP:HB2	1:P:373:ILE:HD11	1.99	0.47
1:A:719:GLY:O	1:Z:666:LYS:NZ	194.19	0.47
1:Y:368:ALA:HB2	1:2:397:GLU:HG3	103.25	0.47
1:K:509:TYR:HB3	1:K:518:ILE:HD11	1.96	0.47
1:G:517:ILE:HG22	1:4:472:SER:O	2.14	0.47
1:M:247:TRP:HB3	1:M:371:PHE:CE1	2.57	0.47
1:W:286:ASN:HD21	1:W:619:TRP:N	2.04	0.47
1:H:322:LYS:CE	1:H:335:ASN:ND2	2.75	0.47
1:C:322:LYS:CE	1:C:335:ASN:HD21	2.26	0.47
1:C:322:LYS:CE	1:C:335:ASN:ND2	2.75	0.47
1:S:472:SER:O	1:6:517:ILE:HG22	2.14	0.47
1:R:509:TYR:HD1	1:R:518:ILE:CD1	2.25	0.47
1:H:379:LEU:HD13	1:2:437:PRO:HD3	1.95	0.47
1:5:397:GLU:HG3	1:6:368:ALA:HB2	1.97	0.47
1:J:399:PHE:CE2	1:V:693:LYS:HG3	119.98	0.47
1:E:312:LEU:HD11	1:E:681:VAL:HG13	1.97	0.47
1:A:460:ASP:HA	1:Z:493:LYS:HE3	161.48	0.47
1:Q:498:ASN:HD21	1:Z:457:GLN:HB3	147.13	0.47
1:L:553:THR:HG23	1:L:557:ASN:CB	2.47	0.47
1:K:384:GLY:C	1:K:386:GLN:H	2.24	0.47
1:S:630:HIS:N	1:S:631:PRO:HD3	2.45	0.47
1:U:630:HIS:N	1:U:631:PRO:HD3	2.30	0.47
1:V:630:HIS:N	1:V:631:PRO:HD3	2.31	0.47
1:T:629:PHE:O	1:T:630:HIS:C	2.53	0.47
1:O:564:GLU:O	1:O:567:LYS:HG3	2.15	0.47
1:C:301:ILE:HG12	1:C:729:THR:HA	2.01	0.47
1:D:487:GLN:NE2	1:H:585:GLN:H	220.94	0.47
1:L:487:GLN:NE2	1:T:585:GLN:H	61.06	0.47
1:H:399:PHE:CE2	1:2:693:LYS:HG3	2.50	0.47
1:R:493:LYS:HE3	1:7:460:ASP:HA	1.96	0.47
1:I:384:GLY:O	1:I:386:GLN:N	2.48	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:609:ASP:O	1:N:730:ARG:NH2	2.41	0.47
1:R:693:LYS:HA	1:R:693:LYS:HD3	1.78	0.47
1:7:555:LEU:HD23	1:7:555:LEU:C	2.35	0.47
1:Z:381:LEU:HD11	1:0:427:HIS:O	2.15	0.47
1:F:287:ARG:HA	1:F:616:GLY:O	2.14	0.47
1:L:484:TYR:CD1	1:T:599:MET:HE2	75.15	0.47
1:L:484:TYR:CE1	1:T:599:MET:HE2	76.26	0.47
1:M:297:TRP:CD1	1:M:301:ILE:HD11	2.52	0.47
1:2:487:GLN:HE21	1:2:488:ARG:H	1.63	0.47
1:A:643:PRO:O	1:A:644:PRO:C	2.64	0.47
1:N:608:GLN:HE22	1:5:626:ASP:H	185.98	0.47
1:Y:442:TYR:CZ	1:7:287:ARG:HD2	123.40	0.47
1:F:312:LEU:HD12	1:F:313:ASN:N	2.29	0.47
1:C:419:VAL:HG11	1:C:640:LEU:HD23	2.06	0.47
1:Y:398:TYR:OH	1:Z:296:ASP:OD1	28.62	0.47
1:1:349:TYR:OH	1:1:643:PRO:O	2.26	0.47
1:M:484:TYR:CD1	1:6:599:MET:HE2	181.97	0.47
1:B:624:HIS:O	1:P:427:HIS:HE1	173.28	0.47
1:6:246:THR:HG23	1:6:678:GLN:NE2	2.30	0.47
1:O:440:ASP:HB2	1:X:360:GLN:NE2	162.54	0.47
1:I:218:ALA:HB1	1:J:223:ASN:OD1	2.15	0.47
1:T:622:ILE:HD12	1:T:631:PRO:HB2	1.96	0.47
1:V:403:MET:HG3	1:W:227:ASN:HA	1.96	0.47
1:M:290:CYS:HB2	1:M:291:HIS:CD2	2.60	0.47
1:H:659:PRO:HD2	1:I:372:MET:HE1	2.27	0.47
1:J:317:PHE:CD2	1:J:317:PHE:N	2.82	0.47
1:Z:402:GLN:HG3	1:0:227:ASN:HD21	58.98	0.47
1:A:327:ASN:O	1:A:328:ASP:HB2	2.14	0.47
1:I:309:PRO:HB2	1:I:416:PHE:CD2	2.50	0.47
1:P:402:GLN:HG3	1:Q:227:ASN:HD21	1.79	0.47
1:1:314:PHE:HB3	1:1:412:PHE:HD1	1.80	0.47
1:O:280:TRP:CE2	1:O:650:LYS:HD2	2.54	0.47
1:P:327:ASN:O	1:P:328:ASP:HB2	2.16	0.47
1:M:566:ILE:HG13	1:M:570:ASN:HB2	1.99	0.47
1:B:720:LEU:O	1:B:722:THR:HG22	2.21	0.47
1:W:327:ASN:O	1:W:328:ASP:HB2	2.17	0.47
1:B:476:LYS:NZ	1:V:516:SER:HB3	2.30	0.47
1:K:273:TYR:O	1:K:273:TYR:CD1	2.68	0.47
1:Z:717:ASN:H	1:Z:717:ASN:ND2	2.17	0.47
1:L:310:LYS:HA	1:L:310:LYS:HD2	1.75	0.47
1:T:305:TRP:CE3	1:T:734:ARG:NH2	2.89	0.47
1:1:295:ARG:O	1:1:298:GLN:HB3	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:5:239:VAL:CG1	1:5:685:TRP:HB2	2.44	0.47
1:3:725:ARG:HB2	1:3:726:PRO:HD2	1.96	0.47
1:T:247:TRP:HB3	1:T:371:PHE:CE1	2.50	0.47
1:T:564:GLU:O	1:T:567:LYS:HG3	2.16	0.47
1:B:405:ARG:N	1:B:408:ASN:HD22	2.01	0.47
1:U:405:ARG:N	1:U:408:ASN:HD22	1.99	0.47
1:E:501:PHE:N	1:E:501:PHE:HD2	2.14	0.47
1:N:447:ASN:C	1:5:502:THR:HG21	247.90	0.47
1:C:509:TYR:HB3	1:C:518:ILE:HD11	2.00	0.47
1:G:379:LEU:HD13	1:4:437:PRO:HD3	1.96	0.47
1:G:519:ASN:HD22	1:G:520:PRO:CD	2.47	0.47
1:F:527:HIS:NE2	1:F:562:ASP:OD1	2.57	0.47
1:4:470:GLY:O	1:4:473:VAL:HG22	2.14	0.47
1:U:618:ILE:HB	1:U:619:TRP:CE3	2.50	0.47
1:B:536:PRO:HD2	1:B:540:VAL:HG13	2.13	0.47
1:X:245:ARG:NE	1:X:367:PRO:HA	2.40	0.47
1:R:297:TRP:CD1	1:R:301:ILE:CD1	3.04	0.47
1:2:517:ILE:CG2	1:3:473:VAL:HA	2.42	0.47
1:R:460:ASP:HA	1:Y:493:LYS:HE3	142.92	0.47
1:S:457:GLN:HB3	1:6:498:ASN:HD21	1.78	0.47
1:S:622:ILE:HD12	1:S:631:PRO:HB2	1.96	0.47
1:7:498:ASN:O	1:7:499:SER:CB	2.63	0.47
1:I:607:TRP:HD1	1:I:608:GLN:O	1.98	0.47
1:O:296:ASP:OD1	1:S:398:TYR:OH	101.07	0.47
1:H:399:PHE:CE2	1:W:693:LYS:HG3	109.99	0.47
1:T:384:GLY:C	1:T:386:GLN:H	2.18	0.47
1:D:426:ALA:O	1:D:733:THR:HA	2.19	0.47
1:W:313:ASN:HB3	1:W:682:GLU:HB3	1.97	0.47
1:E:736:LEU:HD22	1:G:623:PRO:HB3	78.18	0.47
1:M:736:LEU:HD22	1:T:623:PRO:HB3	124.00	0.47
1:Y:719:GLY:O	1:2:666:LYS:NZ	113.06	0.47
1:O:223:ASN:OD1	1:S:218:ALA:HB1	93.91	0.47
1:6:384:GLY:O	1:6:386:GLN:N	2.48	0.47
1:C:252:TYR:CE1	1:C:375:GLN:HB2	2.49	0.47
1:4:246:THR:HG23	1:4:678:GLN:NE2	2.30	0.47
1:I:477:ASN:O	1:V:634:LEU:HB2	122.04	0.47
1:D:314:PHE:HB3	1:D:412:PHE:HD1	1.78	0.47
1:2:226:GLY:HA3	1:2:317:PHE:CD1	2.50	0.47
1:J:254:ASN:O	1:J:255:HIS:HB2	2.25	0.47
1:V:341:VAL:HG23	1:V:650:LYS:O	2.13	0.47
1:P:666:LYS:NZ	1:Q:719:GLY:O	2.56	0.47
1:W:290:CYS:HB2	1:W:291:HIS:CD2	2.70	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:536:PRO:HG3	1:S:573:ALA:HB3	1.97	0.47
1:O:327:ASN:O	1:O:328:ASP:HB2	2.16	0.47
1:X:487:GLN:HE22	1:1:585:GLN:H	1.63	0.47
1:A:408:ASN:HD21	1:B:224:ALA:N	1.99	0.47
1:K:487:GLN:HE22	1:L:585:GLN:H	103.70	0.47
1:S:564:GLU:O	1:S:567:LYS:HG3	2.14	0.47
1:P:542:ILE:CD1	1:P:560:ILE:HG13	2.39	0.47
1:B:364:PRO:CG	1:B:371:PHE:HB3	2.45	0.47
1:U:333:ILE:HG21	1:U:674:TYR:HE1	1.80	0.47
1:O:301:ILE:HG12	1:O:729:THR:HA	1.96	0.47
1:K:457:GLN:HB3	1:U:498:ASN:HD21	238.13	0.47
1:M:498:ASN:O	1:M:499:SER:CB	2.67	0.47
1:L:626:ASP:OD2	1:T:423:SER:HB3	90.12	0.47
1:Y:460:ASP:HA	1:7:493:LYS:HE3	154.60	0.47
1:4:423:SER:HB2	1:4:425:TYR:CE2	2.50	0.47
1:N:457:GLN:HB3	1:R:498:ASN:HD21	224.60	0.47
1:Y:262:SER:OG	1:Y:272:HIS:HD2	2.05	0.47
1:1:395:CYS:SG	1:1:397:GLU:HG2	2.55	0.47
1:N:446:LEU:HD13	1:N:463:PHE:CE2	2.50	0.47
1:7:609:ASP:O	1:7:730:ARG:NH2	2.42	0.47
1:H:598:VAL:HG23	1:2:580:VAL:HG11	1.96	0.47
1:O:444:TYR:CE2	1:O:465:ARG:HB3	2.58	0.47
1:3:312:LEU:HD12	1:3:313:ASN:N	2.29	0.47
1:Y:402:GLN:HG3	1:Z:227:ASN:ND2	58.40	0.47
1:M:599:MET:CE	1:M:602:LEU:HD11	2.61	0.47
1:S:599:MET:CE	1:S:602:LEU:HD11	2.45	0.47
1:E:624:HIS:O	1:F:427:HIS:HE1	1.98	0.47
1:Q:247:TRP:HB3	1:Q:371:PHE:CE1	2.53	0.47
1:W:621:LYS:HB2	1:W:643:PRO:HG3	1.97	0.47
1:F:244:THR:HA	1:F:679:VAL:O	2.15	0.47
1:U:545:LYS:O	1:U:546:GLU:HB2	2.15	0.47
1:X:314:PHE:HB3	1:X:412:PHE:HD1	1.80	0.47
1:2:246:THR:HG23	1:2:678:GLN:HE21	1.80	0.47
1:M:218:ALA:HB1	1:N:223:ASN:OD1	2.16	0.47
1:S:614:LEU:HD12	1:S:614:LEU:O	2.31	0.47
1:C:655:PRO:HB3	1:C:667:PHE:CE1	2.49	0.47
1:N:219:ASP:O	1:N:220:GLY:O	2.41	0.47
1:Q:280:TRP:CE2	1:Q:650:LYS:HD2	2.50	0.47
1:D:244:THR:HA	1:D:679:VAL:O	2.15	0.47
1:K:696:ASN:ND2	1:U:393:PHE:HB3	180.12	0.47
1:E:449:THR:OG1	1:G:501:PHE:HE2	60.23	0.47
1:B:501:PHE:HE2	1:O:449:THR:OG1	220.39	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:502:THR:O	1:P:506:ALA:HB2	2.23	0.47
1:B:441:GLN:HA	1:P:359:HIS:HA	189.76	0.47
1:Z:359:HIS:HA	1:O:441:GLN:HA	1.97	0.47
1:Z:517:ILE:HG22	1:O:472:SER:O	2.15	0.47
1:D:286:ASN:HD21	1:D:619:TRP:N	2.19	0.47
1:Z:397:GLU:HB2	1:O:367:PRO:HB2	48.24	0.47
1:X:359:HIS:HA	1:1:441:GLN:HA	1.97	0.47
1:L:270:ASP:HA	1:L:514:ARG:HB2	1.97	0.47
1:U:509:TYR:HB3	1:U:518:ILE:HD11	1.97	0.47
1:B:517:ILE:HG22	1:P:472:SER:O	202.99	0.47
1:W:527:HIS:HE2	1:W:564:GLU:CD	2.17	0.47
1:Y:436:ASN:H	1:7:359:HIS:CE1	122.98	0.47
1:Y:630:HIS:N	1:Y:631:PRO:HD3	2.30	0.47
1:N:437:PRO:HD3	1:5:379:LEU:HD13	212.95	0.47
1:W:301:ILE:HG12	1:W:729:THR:HA	1.97	0.47
1:V:498:ASN:O	1:V:499:SER:CB	2.63	0.47
1:S:498:ASN:O	1:S:499:SER:CB	2.64	0.47
1:Y:585:GLN:H	1:7:487:GLN:HE22	149.17	0.47
1:Q:272:HIS:HB3	1:Q:384:GLY:HA2	1.97	0.47
1:T:287:ARG:NH1	1:T:615:GLN:O	2.41	0.47
1:W:402:GLN:HG3	1:X:227:ASN:ND2	2.30	0.47
1:Z:649:ILE:HG12	1:Z:650:LYS:H	1.80	0.47
1:V:649:ILE:HG12	1:V:650:LYS:N	2.30	0.47
1:J:720:LEU:O	1:J:722:THR:HG22	2.20	0.47
1:B:440:ASP:HB2	1:V:360:GLN:NE2	2.30	0.47
1:3:244:THR:HA	1:3:679:VAL:O	2.15	0.47
1:E:253:ASN:O	1:E:254:ASN:C	2.65	0.47
1:X:700:GLN:HA	1:X:700:GLN:HE21	1.80	0.47
1:U:244:THR:HA	1:U:679:VAL:O	2.15	0.47
1:T:327:ASN:O	1:T:328:ASP:HB2	2.16	0.47
1:5:252:TYR:CZ	1:5:375:GLN:HB2	2.50	0.47
1:K:480:PRO:O	1:K:605:MET:HG2	2.15	0.47
1:A:501:PHE:HA	1:A:504:THR:CG2	2.45	0.46
1:U:501:PHE:CA	1:U:504:THR:HG22	2.45	0.46
1:Z:340:THR:HA	1:Z:404:LEU:O	2.15	0.46
1:L:405:ARG:H	1:L:408:ASN:ND2	2.04	0.46
1:V:527:HIS:ND1	1:V:527:HIS:O	2.49	0.46
1:P:517:ILE:HG22	1:V:472:SER:O	195.72	0.46
1:V:441:GLN:NE2	1:V:474:GLN:HB3	2.38	0.46
1:E:257:TYR:O	1:F:719:GLY:HA2	54.07	0.46
1:E:247:TRP:HB3	1:E:371:PHE:CE1	2.50	0.46
1:S:384:GLY:C	1:S:386:GLN:H	2.19	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:527:HIS:HE2	1:C:564:GLU:CD	2.19	0.46
1:O:527:HIS:NE2	1:O:562:ASP:OD1	2.47	0.46
1:W:395:CYS:SG	1:W:397:GLU:HG2	2.60	0.46
1:6:527:HIS:NE2	1:6:532:ASP:CG	2.69	0.46
1:D:333:ILE:H	1:D:333:ILE:HD12	1.79	0.46
1:N:441:GLN:HA	1:R:359:HIS:HA	181.18	0.46
1:D:532:ASP:OD1	1:D:564:GLU:OE2	2.33	0.46
1:K:459:LYS:O	1:K:460:ASP:CB	2.73	0.46
1:P:622:ILE:HD12	1:P:631:PRO:HB2	2.09	0.46
1:1:301:ILE:HG12	1:1:729:THR:HA	1.96	0.46
1:D:484:TYR:CE1	1:U:599:MET:HE2	190.04	0.46
1:7:423:SER:HB2	1:7:425:TYR:CE2	2.51	0.46
1:Y:693:LYS:HG3	1:0:399:PHE:CE2	2.50	0.46
1:X:623:PRO:HB3	1:1:736:LEU:HD22	1.96	0.46
1:S:442:TYR:CZ	1:6:287:ARG:HD2	2.50	0.46
1:N:433:ARG:HG3	1:R:382:ASN:HD21	194.11	0.46
1:F:295:ARG:O	1:F:298:GLN:HB3	2.14	0.46
1:T:720:LEU:O	1:T:722:THR:HG22	2.15	0.46
1:R:398:TYR:OH	1:S:296:ASP:OD1	2.33	0.46
1:D:722:THR:O	1:D:724:PRO:HD3	2.27	0.46
1:B:317:PHE:N	1:B:317:PHE:CD2	2.91	0.46
1:E:238:ARG:HH11	1:E:238:ARG:HG2	1.80	0.46
1:4:327:ASN:O	1:4:328:ASP:HB2	2.14	0.46
1:G:327:ASN:O	1:G:328:ASP:HB2	2.16	0.46
1:T:444:TYR:CZ	1:T:465:ARG:HB3	2.50	0.46
1:H:449:THR:OG1	1:3:501:PHE:HE2	1.97	0.46
1:E:585:GLN:H	1:N:487:GLN:NE2	243.41	0.46
1:B:502:THR:HG23	1:P:449:THR:HG22	217.54	0.46
1:1:506:ALA:HA	1:1:537:MET:HE1	1.96	0.46
1:J:506:ALA:HA	1:J:537:MET:HE1	1.96	0.46
1:I:472:SER:HB3	1:1:270:ASP:O	2.15	0.46
1:P:379:LEU:HD13	1:V:437:PRO:HD3	179.59	0.46
1:V:357:SER:HB2	1:V:359:HIS:CD2	2.57	0.46
1:H:359:HIS:CE1	1:2:436:ASN:H	2.34	0.46
1:C:357:SER:HB2	1:C:359:HIS:CD2	2.60	0.46
1:W:270:ASP:HA	1:W:514:ARG:HB2	2.01	0.46
1:M:501:PHE:CA	1:M:504:THR:HG22	2.51	0.46
1:L:397:GLU:HG3	1:M:368:ALA:HB2	2.00	0.46
1:N:542:ILE:CD1	1:N:560:ILE:HG13	2.40	0.46
1:P:431:LEU:HD23	1:P:431:LEU:O	2.24	0.46
1:6:527:HIS:NE2	1:6:564:GLU:CD	2.68	0.46
1:F:384:GLY:C	1:F:386:GLN:H	2.20	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:693:LYS:HG3	1:V:399:PHE:CE2	2.50	0.46
1:T:553:THR:HG23	1:T:557:ASN:CB	2.47	0.46
1:A:498:ASN:O	1:A:499:SER:CB	2.62	0.46
1:2:527:HIS:NE2	1:2:564:GLU:CD	2.69	0.46
1:1:245:ARG:NE	1:1:367:PRO:HA	2.30	0.46
1:F:287:ARG:HG3	1:F:616:GLY:O	2.16	0.46
1:Q:609:ASP:O	1:Q:730:ARG:NH2	2.48	0.46
1:W:419:VAL:HG11	1:W:640:LEU:HD23	2.01	0.46
1:U:313:ASN:HB3	1:U:682:GLU:HB3	1.97	0.46
1:2:379:LEU:HD13	1:3:437:PRO:HD3	1.98	0.46
1:1:252:TYR:CZ	1:1:375:GLN:HB2	2.49	0.46
1:G:272:HIS:HB3	1:G:384:GLY:HA2	2.02	0.46
1:E:484:TYR:CE1	1:5:599:MET:HE2	134.01	0.46
1:I:294:PRO:HB2	1:2:697:PRO:HD3	1.98	0.46
1:S:697:PRO:HD3	1:7:294:PRO:HB2	1.96	0.46
1:M:333:ILE:HD12	1:M:333:ILE:H	1.87	0.46
1:Z:545:LYS:O	1:Z:546:GLU:HB2	2.18	0.46
1:B:252:TYR:CZ	1:B:375:GLN:HB2	2.50	0.46
1:X:219:ASP:O	1:X:220:GLY:O	2.36	0.46
1:3:327:ASN:O	1:3:328:ASP:HB2	2.15	0.46
1:P:238:ARG:HG2	1:P:238:ARG:HH11	1.82	0.46
1:7:445:TYR:N	1:7:445:TYR:CD1	2.82	0.46
1:5:398:TYR:OH	1:6:296:ASP:OD1	2.32	0.46
1:Z:244:THR:HA	1:Z:679:VAL:O	2.17	0.46
1:H:487:GLN:HE22	1:2:585:GLN:H	1.62	0.46
1:V:470:GLY:O	1:V:473:VAL:HG22	2.15	0.46
1:I:286:ASN:HD21	1:I:619:TRP:N	2.08	0.46
1:E:322:LYS:CE	1:E:335:ASN:ND2	2.87	0.46
1:A:719:GLY:HA2	1:E:257:TYR:O	2.15	0.46
1:S:397:GLU:HB2	1:T:367:PRO:CB	2.45	0.46
1:E:379:LEU:CD1	1:F:437:PRO:HB3	2.44	0.46
1:G:486:GLN:O	1:G:574:THR:HA	2.26	0.46
1:H:333:ILE:H	1:H:333:ILE:HD12	1.80	0.46
1:W:527:HIS:CE1	1:W:532:ASP:OD1	2.71	0.46
1:Z:618:ILE:HB	1:Z:619:TRP:CE3	2.57	0.46
1:I:540:VAL:HG21	1:I:560:ILE:HG23	1.96	0.46
1:I:609:ASP:O	1:I:730:ARG:NH2	2.53	0.46
1:M:322:LYS:HB2	1:M:674:TYR:CE1	2.53	0.46
1:4:542:ILE:CD1	1:4:560:ILE:HG13	2.40	0.46
1:N:438:LEU:HD23	1:N:438:LEU:N	2.30	0.46
1:6:509:TYR:HD1	1:6:518:ILE:CD1	2.28	0.46
1:C:450:GLN:OE1	1:O:499:SER:HA	191.44	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:493:LYS:HE3	1:X:460:ASP:HA	202.59	0.46
1:H:459:LYS:O	1:H:460:ASP:CB	2.66	0.46
1:6:322:LYS:HB2	1:6:674:TYR:CE1	2.51	0.46
1:1:527:HIS:NE2	1:1:564:GLU:CD	2.69	0.46
1:H:287:ARG:HB3	1:H:290:CYS:SG	2.56	0.46
1:C:626:ASP:OD2	1:X:423:SER:HB3	153.13	0.46
1:2:272:HIS:HB3	1:2:384:GLY:HA2	1.96	0.46
1:H:484:TYR:CE1	1:2:599:MET:HE2	2.51	0.46
1:R:238:ARG:HG2	1:R:238:ARG:NH1	2.30	0.46
1:X:384:GLY:O	1:X:386:GLN:N	2.49	0.46
1:M:257:TYR:O	1:N:719:GLY:HA2	2.18	0.46
1:U:444:TYR:CE2	1:U:465:ARG:HB3	2.51	0.46
1:A:360:GLN:NE2	1:W:440:ASP:HB2	2.30	0.46
1:S:246:THR:HG23	1:S:678:GLN:NE2	2.32	0.46
1:D:720:LEU:O	1:D:722:THR:HG22	2.17	0.46
1:M:444:TYR:CZ	1:M:465:ARG:HB3	2.50	0.46
1:0:247:TRP:HB2	1:0:373:ILE:HD11	1.97	0.46
1:R:536:PRO:HG3	1:R:573:ALA:HB3	1.97	0.46
1:A:294:PRO:HD2	1:F:695:TRP:CE2	2.51	0.46
1:0:720:LEU:O	1:0:722:THR:HG22	2.15	0.46
1:7:444:TYR:CZ	1:7:465:ARG:HB3	2.50	0.46
1:F:217:GLY:O	1:F:218:ALA:HB2	2.15	0.46
1:P:614:LEU:HD12	1:P:614:LEU:O	2.42	0.46
1:D:280:TRP:CE2	1:D:650:LYS:HD2	2.50	0.46
1:M:480:PRO:O	1:M:605:MET:HG2	2.15	0.46
1:6:218:ALA:HB1	1:7:223:ASN:OD1	2.15	0.46
1:X:720:LEU:O	1:X:722:THR:HG22	2.19	0.46
1:H:243:SER:O	1:H:680:SER:HA	2.15	0.46
1:F:501:PHE:CA	1:F:504:THR:HG22	2.44	0.46
1:J:501:PHE:HD2	1:J:501:PHE:N	2.08	0.46
1:V:520:PRO:CG	1:V:635:MET:HG2	2.53	0.46
1:Z:615:GLN:NE2	1:Z:726:PRO:HA	2.29	0.46
1:W:486:GLN:HE22	1:W:538:SER:N	2.15	0.46
1:A:366:PHE:O	1:A:369:ASP:HB2	2.16	0.46
1:L:247:TRP:HB2	1:L:373:ILE:HD11	1.97	0.46
1:M:564:GLU:O	1:M:567:LYS:HG3	2.16	0.46
1:W:333:ILE:HD12	1:W:333:ILE:H	1.79	0.46
1:B:542:ILE:CD1	1:B:560:ILE:HG13	2.48	0.46
1:W:364:PRO:CG	1:W:371:PHE:HB3	2.45	0.46
1:A:553:THR:HG23	1:A:557:ASN:CB	2.47	0.46
1:C:498:ASN:HD21	1:R:457:GLN:HB3	273.15	0.46
1:D:498:ASN:O	1:D:499:SER:CB	2.62	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:498:ASN:HD21	1:U:457:GLN:HB3	224.75	0.46
1:C:423:SER:HB3	1:N:626:ASP:OD2	125.56	0.46
1:C:608:GLN:HE22	1:O:626:ASP:H	166.09	0.46
1:O:265:THR:HG23	1:O:267:ALA:H	1.80	0.46
1:6:322:LYS:O	1:6:673:GLN:HB2	2.15	0.46
1:T:262:SER:OG	1:T:272:HIS:HD2	2.06	0.46
1:1:555:LEU:HD23	1:1:555:LEU:C	2.36	0.46
1:H:312:LEU:HD12	1:H:313:ASN:N	2.29	0.46
1:J:693:LYS:HG3	1:W:399:PHE:CZ	2.50	0.46
1:K:630:HIS:N	1:K:631:PRO:HD3	2.30	0.46
1:2:383:ASN:O	1:2:384:GLY:O	2.33	0.46
1:M:690:GLU:OE2	1:T:299:ARG:NH1	125.22	0.46
1:E:250:PRO:HB3	1:I:658:PRO:HG2	85.69	0.46
1:R:487:GLN:HE22	1:7:585:GLN:H	1.63	0.46
1:U:312:LEU:HD12	1:U:313:ASN:N	2.32	0.46
1:K:238:ARG:NH1	1:K:238:ARG:HG2	2.43	0.46
1:3:402:GLN:HG3	1:4:227:ASN:ND2	2.30	0.46
1:2:426:ALA:O	1:2:733:THR:HA	2.16	0.46
1:Y:599:MET:HE2	1:O:484:TYR:CE1	2.49	0.46
1:X:444:TYR:CE2	1:X:465:ARG:HB3	2.50	0.46
1:Z:444:TYR:CE2	1:Z:465:ARG:HB3	2.50	0.46
1:V:649:ILE:HG12	1:V:650:LYS:H	1.79	0.46
1:A:666:LYS:NZ	1:B:719:GLY:O	2.48	0.46
1:R:244:THR:HA	1:R:679:VAL:O	2.19	0.46
1:X:243:SER:O	1:X:680:SER:HA	2.15	0.46
1:4:398:TYR:OH	1:5:296:ASP:OD1	2.30	0.46
1:C:544:GLY:O	1:C:545:LYS:HB2	2.30	0.46
1:L:326:THR:HG23	1:L:326:THR:O	2.16	0.46
1:Q:503:TRP:CD1	1:Q:503:TRP:C	2.89	0.46
1:H:218:ALA:HB1	1:I:223:ASN:OD1	2.17	0.46
1:O:649:ILE:HG12	1:O:650:LYS:H	1.81	0.46
1:D:340:THR:HG22	1:D:405:ARG:HG2	1.97	0.46
1:I:487:GLN:NE2	1:J:585:GLN:H	103.47	0.46
1:W:501:PHE:HD2	1:W:501:PHE:N	2.13	0.46
1:V:527:HIS:NE2	1:V:562:ASP:OD1	2.59	0.46
1:O:470:GLY:O	1:O:473:VAL:HG22	2.16	0.46
1:C:287:ARG:HD2	1:X:442:TYR:CZ	157.58	0.46
1:Z:245:ARG:NE	1:Z:367:PRO:HA	2.31	0.46
1:N:286:ASN:HD22	1:N:286:ASN:C	2.19	0.46
1:A:270:ASP:O	1:W:472:SER:HB3	2.16	0.46
1:D:364:PRO:CG	1:D:371:PHE:HB3	2.52	0.46
1:B:286:ASN:HD21	1:B:619:TRP:N	2.10	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:499:SER:HA	1:V:450:GLN:OE1	143.01	0.46
1:A:493:LYS:HE3	1:W:460:ASP:HA	1.98	0.46
1:J:622:ILE:HD12	1:J:631:PRO:HB2	1.97	0.46
1:Y:585:GLN:H	1:O:487:GLN:HE22	1.63	0.46
1:1:257:TYR:O	1:2:719:GLY:HA2	2.15	0.46
1:F:487:GLN:HE22	1:G:585:GLN:H	103.62	0.46
1:1:615:GLN:NE2	1:1:726:PRO:HA	2.29	0.46
1:L:484:TYR:CD1	1:U:599:MET:HE2	186.05	0.46
1:O:630:HIS:N	1:O:631:PRO:HD3	2.31	0.46
1:O:622:ILE:CD1	1:O:631:PRO:HB2	2.45	0.46
1:F:599:MET:HE2	1:4:484:TYR:CE1	97.05	0.46
1:E:444:TYR:CZ	1:E:465:ARG:HB3	2.49	0.46
1:G:252:TYR:CE1	1:G:375:GLN:HB2	2.51	0.46
1:J:624:HIS:O	1:V:427:HIS:HE1	99.72	0.46
1:T:722:THR:O	1:T:724:PRO:HD3	2.15	0.46
1:C:545:LYS:O	1:C:546:GLU:HB2	2.15	0.46
1:6:254:ASN:O	1:6:255:HIS:HB2	2.16	0.46
1:O:295:ARG:O	1:O:298:GLN:HB3	2.14	0.46
1:3:700:GLN:HA	1:3:700:GLN:HE21	1.80	0.46
1:6:238:ARG:HG2	1:6:238:ARG:HH11	1.79	0.46
1:T:717:ASN:H	1:T:717:ASN:ND2	2.14	0.46
1:2:614:LEU:O	1:2:614:LEU:HD12	2.15	0.46
1:F:252:TYR:CZ	1:F:375:GLN:HB2	2.50	0.46
1:6:295:ARG:O	1:6:298:GLN:HB3	2.15	0.46
1:O:598:VAL:HG23	1:P:580:VAL:HG11	1.96	0.46
1:H:502:THR:O	1:H:506:ALA:HB2	2.15	0.46
1:Y:517:ILE:HG22	1:Z:472:SER:O	2.16	0.46
1:P:719:GLY:O	1:T:666:LYS:NZ	2.49	0.46
1:Y:245:ARG:NE	1:Y:367:PRO:HA	2.37	0.46
1:M:359:HIS:HA	1:S:441:GLN:HA	181.23	0.46
1:X:658:PRO:HD3	1:Y:674:TYR:CD2	2.50	0.46
1:B:245:ARG:NE	1:B:367:PRO:HA	2.31	0.46
1:2:286:ASN:HD21	1:2:619:TRP:N	2.07	0.46
1:Q:553:THR:HG23	1:Q:557:ASN:CB	2.44	0.46
1:I:450:GLN:OE1	1:1:499:SER:HA	2.15	0.46
1:B:630:HIS:N	1:B:631:PRO:HD3	2.29	0.46
1:Z:313:ASN:HB3	1:Z:682:GLU:HB3	2.03	0.46
1:L:459:LYS:O	1:L:460:ASP:CB	2.63	0.46
1:S:312:LEU:HD12	1:S:313:ASN:N	2.33	0.46
1:N:585:GLN:H	1:5:487:GLN:NE2	249.52	0.46
1:Q:294:PRO:CB	1:V:697:PRO:HD3	158.07	0.46
1:I:444:TYR:CE1	1:1:544:GLY:HA2	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:444:TYR:CE2	1:R:465:ARG:HB3	2.51	0.46
1:D:580:VAL:HG11	1:W:598:VAL:HG23	147.38	0.46
1:O:599:MET:HE1	1:O:602:LEU:HD11	1.97	0.46
1:M:444:TYR:CE2	1:M:465:ARG:HB3	2.50	0.46
1:O:247:TRP:HB3	1:O:371:PHE:CE1	2.51	0.46
1:W:218:ALA:HB1	1:X:223:ASN:OD1	2.16	0.46
1:M:252:TYR:CZ	1:M:375:GLN:HB2	2.51	0.46
1:F:484:TYR:CD1	1:F:598:VAL:HG22	2.50	0.46
1:V:243:SER:O	1:V:680:SER:HA	2.15	0.46
1:G:524:MET:HG2	1:G:571:PRO:HG2	1.98	0.46
1:1:305:TRP:CE3	1:1:734:ARG:NH2	2.83	0.46
1:D:545:LYS:O	1:D:546:GLU:HB2	2.22	0.46
1:A:244:THR:HA	1:A:679:VAL:O	2.23	0.46
1:I:697:PRO:HD3	1:W:294:PRO:HB2	122.17	0.46
1:D:504:THR:CG2	1:D:505:GLY:N	2.91	0.46
1:1:446:LEU:HD13	1:1:463:PHE:CE2	2.51	0.46
1:J:500:ASN:HA	1:V:449:THR:CG2	137.01	0.46
1:4:501:PHE:N	1:4:501:PHE:HD2	2.11	0.46
1:I:470:GLY:O	1:I:473:VAL:HG22	2.23	0.46
1:Q:509:TYR:HB3	1:Q:518:ILE:HD11	2.08	0.46
1:Y:509:TYR:HD1	1:Y:518:ILE:CD1	2.25	0.46
1:L:363:LEU:N	1:L:363:LEU:HD12	2.31	0.46
1:E:509:TYR:HB3	1:E:518:ILE:HD11	1.98	0.46
1:M:512:ASN:HD21	1:S:529:ASP:H	202.37	0.46
1:N:286:ASN:ND2	1:N:618:ILE:HB	2.44	0.46
1:1:441:GLN:HE22	1:1:474:GLN:HB3	1.80	0.46
1:S:272:HIS:HB3	1:S:384:GLY:HA2	2.01	0.46
1:B:322:LYS:CE	1:B:335:ASN:ND2	2.78	0.46
1:X:658:PRO:HG2	1:Y:250:PRO:HB3	1.98	0.46
1:W:322:LYS:CE	1:W:335:ASN:ND2	2.76	0.46
1:3:286:ASN:ND2	1:3:618:ILE:HB	2.31	0.46
1:N:441:GLN:HA	1:5:359:HIS:HA	216.90	0.46
1:M:629:PHE:O	1:M:630:HIS:C	2.55	0.46
1:K:437:PRO:C	1:K:438:LEU:HD23	2.36	0.46
1:X:498:ASN:O	1:X:499:SER:CB	2.73	0.46
1:4:301:ILE:HG12	1:4:729:THR:HA	1.97	0.46
1:1:629:PHE:O	1:1:630:HIS:C	2.53	0.46
1:F:301:ILE:HD11	1:F:728:GLY:O	2.16	0.46
1:D:297:TRP:CD1	1:D:301:ILE:HD11	2.51	0.46
1:B:626:ASP:OD2	1:O:423:SER:HB3	152.93	0.46
1:V:384:GLY:O	1:V:386:GLN:N	2.63	0.46
1:2:282:TYR:CE2	1:2:374:PRO:HB2	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:536:PRO:HG3	1:M:573:ALA:HB3	1.98	0.46
1:S:399:PHE:CE2	1:T:693:LYS:HG3	38.12	0.46
1:R:555:LEU:C	1:R:555:LEU:HD23	2.36	0.46
1:K:295:ARG:O	1:K:298:GLN:HB3	2.15	0.46
1:B:615:GLN:NE2	1:B:726:PRO:HA	2.31	0.46
1:R:487:GLN:NE2	1:7:585:GLN:H	2.13	0.46
1:N:585:GLN:H	1:R:487:GLN:HE22	203.84	0.46
1:G:599:MET:HE3	1:G:602:LEU:CD1	2.46	0.46
1:B:433:ARG:HG3	1:P:382:ASN:HD21	196.62	0.46
1:I:736:LEU:HD22	1:V:623:PRO:HB3	119.84	0.46
1:6:280:TRP:CE2	1:6:650:LYS:HD2	2.50	0.46
1:Z:272:HIS:HB3	1:Z:384:GLY:HA2	1.97	0.46
1:C:384:GLY:C	1:C:386:GLN:H	2.19	0.46
1:U:290:CYS:HB2	1:U:291:HIS:CD2	2.51	0.46
1:P:333:ILE:HD12	1:P:333:ILE:H	1.81	0.46
1:G:317:PHE:CD2	1:G:317:PHE:N	2.83	0.46
1:X:648:LEU:N	1:X:648:LEU:HD22	2.30	0.46
1:O:238:ARG:HG2	1:O:238:ARG:HH11	1.83	0.46
1:1:238:ARG:HG2	1:1:238:ARG:HH11	1.81	0.46
1:I:717:ASN:H	1:I:717:ASN:ND2	2.13	0.46
1:K:239:VAL:HG13	1:K:239:VAL:O	2.31	0.46
1:3:238:ARG:HH11	1:3:238:ARG:HG2	1.81	0.46
1:K:658:PRO:HG2	1:L:250:PRO:HB3	1.98	0.46
1:H:501:PHE:CE2	1:2:449:THR:HG21	2.51	0.46
1:K:449:THR:HG21	1:T:501:PHE:H	1.81	0.46
1:E:585:GLN:H	1:G:487:GLN:NE2	61.23	0.46
1:S:359:HIS:CE1	1:T:436:ASN:H	66.45	0.46
1:O:245:ARG:NE	1:O:367:PRO:HA	2.39	0.46
1:S:395:CYS:SG	1:S:397:GLU:HG2	2.57	0.46
1:L:363:LEU:CD1	1:L:363:LEU:N	2.79	0.46
1:G:379:LEU:CD1	1:4:437:PRO:HB3	2.45	0.46
1:F:527:HIS:NE2	1:F:532:ASP:OD1	2.51	0.46
1:U:470:GLY:O	1:U:473:VAL:HG22	2.14	0.46
1:E:564:GLU:O	1:E:567:LYS:HG3	2.14	0.46
1:Y:527:HIS:NE2	1:Y:562:ASP:OD1	2.58	0.46
1:A:397:GLU:O	1:B:230:CYS:HB3	2.16	0.46
1:W:245:ARG:NE	1:W:367:PRO:HA	2.36	0.46
1:H:540:VAL:HG21	1:H:560:ILE:HG23	2.04	0.46
1:H:527:HIS:NE2	1:H:564:GLU:CD	2.70	0.46
1:S:487:GLN:HE22	1:T:585:GLN:H	103.69	0.46
1:A:262:SER:OG	1:A:272:HIS:HD2	1.98	0.46
1:E:609:ASP:O	1:E:730:ARG:NH2	2.47	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:630:HIS:N	1:Q:631:PRO:HD3	2.30	0.46
1:J:484:TYR:CE1	1:V:599:MET:HE2	96.94	0.46
1:E:402:GLN:HG3	1:F:227:ASN:ND2	58.51	0.46
1:A:697:PRO:HD3	1:O:294:PRO:HB2	161.04	0.46
1:G:444:TYR:CE2	1:G:465:ARG:HB3	2.55	0.46
1:H:247:TRP:HB2	1:H:373:ILE:HD11	1.98	0.46
1:S:226:GLY:HA3	1:S:317:PHE:CD1	2.68	0.46
1:G:720:LEU:O	1:G:722:THR:HG22	2.16	0.46
1:O:344:PHE:HB3	1:O:401:SER:HB3	2.08	0.46
1:R:327:ASN:O	1:R:328:ASP:HB2	2.25	0.46
1:G:360:GLN:NE2	1:4:440:ASP:HB2	2.31	0.46
1:H:580:VAL:HG11	1:3:598:VAL:HG23	1.97	0.46
1:4:578:GLY:O	1:4:596:VAL:HG12	2.16	0.46
1:6:536:PRO:HG3	1:6:573:ALA:HB3	1.97	0.46
1:E:503:TRP:C	1:E:503:TRP:CD1	2.90	0.46
1:U:536:PRO:HG3	1:U:573:ALA:HB3	1.97	0.46
1:H:480:PRO:O	1:H:605:MET:HG2	2.16	0.46
1:2:623:PRO:HB3	1:3:736:LEU:HD22	1.98	0.46
1:A:344:PHE:HB3	1:A:401:SER:HB3	1.97	0.46
1:N:427:HIS:HE1	1:5:624:HIS:O	187.60	0.46
1:G:445:TYR:CD1	1:G:445:TYR:N	2.88	0.46
1:J:449:THR:OG1	1:W:501:PHE:HE2	1.98	0.46
1:2:501:PHE:HE2	1:3:449:THR:OG1	1.99	0.46
1:F:340:THR:HG22	1:F:405:ARG:HG2	1.97	0.46
1:A:437:PRO:HD3	1:Z:379:LEU:HD13	160.90	0.46
1:R:437:PRO:HB3	1:Y:379:LEU:CD1	127.72	0.46
1:T:367:PRO:CB	1:X:397:GLU:HB2	174.30	0.46
1:F:333:ILE:HD12	1:F:333:ILE:H	1.81	0.46
1:T:509:TYR:CD1	1:T:518:ILE:HD13	2.50	0.46
1:3:441:GLN:NE2	1:3:474:GLN:HB3	2.30	0.46
1:7:322:LYS:O	1:7:673:GLN:HB2	2.16	0.46
1:1:459:LYS:O	1:1:460:ASP:CB	2.63	0.46
1:B:693:LYS:HD3	1:B:693:LYS:HA	1.82	0.46
1:4:297:TRP:CD1	1:4:301:ILE:CD1	2.99	0.46
1:Z:622:ILE:HD12	1:Z:631:PRO:HB2	2.06	0.46
1:K:386:GLN:NE2	1:L:707:LYS:HD2	2.33	0.46
1:Q:423:SER:HB3	1:U:626:ASP:OD2	125.55	0.46
1:Y:450:GLN:OE1	1:7:499:SER:HA	155.30	0.46
1:M:397:GLU:HB2	1:N:367:PRO:CB	2.46	0.46
1:B:299:ARG:NH1	1:Q:690:GLU:OE2	167.15	0.46
1:W:629:PHE:O	1:W:630:HIS:C	2.71	0.46
1:N:301:ILE:HG12	1:N:729:THR:HA	1.97	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:585:GLN:H	1:7:487:GLN:NE2	149.42	0.46
1:L:622:ILE:HD12	1:L:631:PRO:HB2	2.03	0.46
1:D:384:GLY:C	1:D:386:GLN:H	2.19	0.46
1:N:611:ASP:HB2	1:N:730:ARG:NH1	2.38	0.46
1:C:312:LEU:HD11	1:C:681:VAL:HG13	1.98	0.46
1:K:399:PHE:CE2	1:L:693:LYS:HG3	38.18	0.46
1:B:289:HIS:NE2	1:B:365:PRO:HG3	2.30	0.46
1:K:426:ALA:O	1:K:733:THR:HA	2.21	0.46
1:F:555:LEU:C	1:F:555:LEU:HD23	2.44	0.46
1:G:399:PHE:CE2	1:4:693:LYS:HG3	2.51	0.46
1:N:247:TRP:HB2	1:N:373:ILE:HD11	1.97	0.46
1:3:444:TYR:CE2	1:3:465:ARG:HB3	2.50	0.46
1:G:498:ASN:HD21	1:4:457:GLN:HB3	1.80	0.46
1:B:598:VAL:HG23	1:O:580:VAL:HG11	198.67	0.46
1:0:272:HIS:CB	1:0:384:GLY:HA2	2.46	0.46
1:E:272:HIS:HB3	1:E:384:GLY:HA2	1.97	0.46
1:K:578:GLY:O	1:K:596:VAL:HG12	2.15	0.46
1:5:247:TRP:HB2	1:5:373:ILE:HD11	1.97	0.46
1:H:331:THR:O	1:H:331:THR:HG23	2.38	0.46
1:J:238:ARG:HG2	1:J:238:ARG:HH11	1.81	0.46
1:D:382:ASN:HD21	1:U:433:ARG:HG3	194.13	0.46
1:0:566:ILE:HG13	1:0:570:ASN:HB2	1.98	0.46
1:5:257:TYR:O	1:6:719:GLY:HA2	2.16	0.46
1:G:408:ASN:HD21	1:H:224:ALA:N	2.06	0.46
1:B:441:GLN:NE2	1:B:474:GLN:HB3	2.39	0.46
1:J:486:GLN:O	1:J:574:THR:HA	2.16	0.46
1:Z:486:GLN:HE22	1:Z:538:SER:N	2.10	0.46
1:Z:509:TYR:HB3	1:Z:518:ILE:HD11	1.98	0.46
1:C:287:ARG:HG2	1:C:289:HIS:NE2	2.31	0.46
1:I:508:LYS:CB	1:I:517:ILE:HA	2.44	0.46
1:6:441:GLN:NE2	1:6:474:GLN:HB3	2.31	0.46
1:E:359:HIS:CE1	1:F:436:ASN:H	2.33	0.46
1:E:527:HIS:NE2	1:E:532:ASP:OD1	2.67	0.46
1:E:529:ASP:H	1:G:512:ASN:HD21	106.12	0.46
1:K:322:LYS:CE	1:K:335:ASN:ND2	2.81	0.46
1:2:540:VAL:HG21	1:2:560:ILE:HG23	1.98	0.46
1:0:553:THR:HG23	1:0:557:ASN:CB	2.44	0.46
1:5:384:GLY:C	1:5:386:GLN:H	2.19	0.46
1:0:297:TRP:CD1	1:0:301:ILE:CD1	2.99	0.46
1:D:457:GLN:HB3	1:Q:498:ASN:HD21	272.98	0.46
1:O:384:GLY:C	1:O:386:GLN:H	2.23	0.46
1:V:384:GLY:C	1:V:386:GLN:H	2.24	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:3:322:LYS:O	1:3:673:GLN:HB2	2.16	0.46
1:5:459:LYS:O	1:5:460:ASP:CB	2.64	0.46
1:Y:446:LEU:HD23	1:0:537:MET:HG3	1.98	0.46
1:A:537:MET:HG3	1:W:446:LEU:HD23	1.97	0.46
1:J:262:SER:OG	1:J:272:HIS:HD2	2.03	0.46
1:G:609:ASP:O	1:G:730:ARG:NH2	2.47	0.46
1:S:484:TYR:CE1	1:T:599:MET:HE2	78.06	0.46
1:B:599:MET:HE2	1:V:484:TYR:CD1	2.51	0.46
1:R:252:TYR:CZ	1:R:375:GLN:HB2	2.51	0.46
1:W:544:GLY:O	1:W:545:LYS:HB2	2.29	0.46
1:O:427:HIS:HE1	1:X:624:HIS:O	153.33	0.46
1:S:649:ILE:HG12	1:S:650:LYS:N	2.31	0.46
1:W:280:TRP:CE2	1:W:650:LYS:HD2	2.53	0.46
1:Q:634:LEU:HB2	1:Z:477:ASN:O	104.39	0.46
1:C:516:SER:HB3	1:R:476:LYS:NZ	229.33	0.46
1:V:327:ASN:O	1:V:328:ASP:HB2	2.20	0.46
1:Q:243:SER:O	1:Q:680:SER:HA	2.16	0.46
1:E:309:PRO:HB2	1:E:416:PHE:CD2	2.50	0.46
1:E:443:LEU:HD11	1:N:541:MET:HE3	211.31	0.46
1:T:244:THR:HA	1:T:679:VAL:O	2.15	0.46
1:6:566:ILE:HG13	1:6:570:ASN:HB2	1.98	0.46
1:2:340:THR:HA	1:2:404:LEU:O	2.16	0.46
1:4:238:ARG:HG2	1:4:238:ARG:HH11	1.81	0.46
1:S:503:TRP:CD1	1:S:503:TRP:C	2.98	0.46
1:H:503:TRP:CD1	1:H:503:TRP:C	2.89	0.46
1:0:503:TRP:CD1	1:0:503:TRP:C	2.89	0.46
1:U:566:ILE:HG13	1:U:570:ASN:HB2	1.98	0.46
1:G:402:GLN:HG3	1:H:227:ASN:HD21	1.81	0.46
1:0:312:LEU:HD12	1:0:313:ASN:H	1.81	0.46
1:Y:433:ARG:HG3	1:0:382:ASN:HD21	1.80	0.46
1:U:230:CYS:HA	1:U:242:THR:O	2.26	0.46
1:N:501:PHE:CA	1:N:504:THR:HG22	2.46	0.45
1:C:487:GLN:HE21	1:C:488:ARG:H	1.64	0.45
1:V:527:HIS:HE2	1:V:564:GLU:CD	2.26	0.45
1:L:542:ILE:CD1	1:L:560:ILE:HG13	2.39	0.45
1:I:519:ASN:CB	1:J:475:PRO:HA	78.68	0.45
1:X:438:LEU:HD23	1:X:438:LEU:N	2.31	0.45
1:6:502:THR:O	1:6:506:ALA:HB2	2.16	0.45
1:C:436:ASN:HB3	1:O:359:HIS:CE1	150.77	0.45
1:E:432:ASP:O	1:E:435:MET:HE3	2.15	0.45
1:F:286:ASN:HD21	1:F:618:ILE:N	2.23	0.45
1:3:509:TYR:HB3	1:3:518:ILE:HD11	1.97	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:503:TRP:CE2	1:X:508:LYS:HE3	2.68	0.45
1:X:517:ILE:HG22	1:1:472:SER:O	2.16	0.45
1:O:250:PRO:HB3	1:S:658:PRO:HG2	85.56	0.45
1:O:527:HIS:CE1	1:O:532:ASP:OD1	2.72	0.45
1:Y:436:ASN:HB3	1:O:359:HIS:CE1	2.51	0.45
1:W:322:LYS:CE	1:W:335:ASN:HD21	2.28	0.45
1:Q:437:PRO:HD3	1:U:379:LEU:HD13	123.61	0.45
1:O:458:ASN:O	1:O:459:LYS:C	2.55	0.45
1:X:527:HIS:NE2	1:X:562:ASP:OD1	2.47	0.45
1:M:460:ASP:HA	1:T:493:LYS:HE3	194.19	0.45
1:F:297:TRP:CD1	1:F:301:ILE:HD11	2.57	0.45
1:A:564:GLU:O	1:A:567:LYS:HG3	2.17	0.45
1:V:609:ASP:O	1:V:730:ARG:NH2	2.44	0.45
1:2:629:PHE:O	1:2:630:HIS:C	2.54	0.45
1:H:566:ILE:O	1:H:566:ILE:HG13	2.16	0.45
1:O:312:LEU:HD13	1:O:683:ILE:HG12	1.98	0.45
1:5:693:LYS:HD3	1:5:693:LYS:HA	1.86	0.45
1:W:289:HIS:CG	1:W:365:PRO:HG3	2.65	0.45
1:A:296:ASP:OD1	1:Z:398:TYR:OH	162.77	0.45
1:V:566:ILE:HD12	1:V:570:ASN:ND2	2.31	0.45
1:V:287:ARG:HB3	1:V:290:CYS:SG	2.56	0.45
1:Y:321:VAL:HG11	1:Y:339:SER:CB	2.52	0.45
1:L:321:VAL:HG11	1:L:339:SER:CB	2.56	0.45
1:Q:541:MET:HE3	1:Z:443:LEU:HD11	122.21	0.45
1:V:247:TRP:HB3	1:V:371:PHE:CE1	2.52	0.45
1:C:444:TYR:CE2	1:C:465:ARG:HB3	2.54	0.45
1:E:722:THR:O	1:E:724:PRO:HD3	2.16	0.45
1:V:402:GLN:HG3	1:W:227:ASN:HD21	1.87	0.45
1:6:559:MET:SD	1:6:725:ARG:HA	2.56	0.45
1:A:295:ARG:O	1:A:298:GLN:HB3	2.16	0.45
1:H:252:TYR:CZ	1:H:375:GLN:HB2	2.51	0.45
1:B:238:ARG:HG2	1:B:238:ARG:HH11	1.86	0.45
1:H:648:LEU:N	1:H:648:LEU:HD22	2.33	0.45
1:Y:230:CYS:HA	1:Y:242:THR:O	2.16	0.45
1:Y:243:SER:O	1:Y:680:SER:HA	2.15	0.45
1:Z:516:SER:HB3	1:O:476:LYS:NZ	2.31	0.45
1:B:327:ASN:O	1:B:328:ASP:HB2	2.16	0.45
1:O:327:ASN:O	1:O:328:ASP:HB2	2.16	0.45
1:P:309:PRO:HB2	1:P:416:PHE:CD2	2.62	0.45
1:D:449:THR:OG1	1:W:501:PHE:HE2	178.41	0.45
1:1:509:TYR:HB3	1:1:518:ILE:HD11	1.97	0.45
1:H:520:PRO:CG	1:H:635:MET:HG2	2.47	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:379:LEU:HD13	1:R:437:PRO:HD3	217.38	0.45
1:I:519:ASN:HD22	1:X:475:PRO:HB3	1.81	0.45
1:C:519:ASN:CB	1:R:475:PRO:HA	225.52	0.45
1:W:357:SER:HB2	1:W:359:HIS:CD2	2.51	0.45
1:Y:357:SER:HB2	1:Y:359:HIS:CD2	2.55	0.45
1:P:366:PHE:HA	1:P:367:PRO:HD3	1.84	0.45
1:O:286:ASN:HD21	1:O:619:TRP:N	2.15	0.45
1:B:359:HIS:CE1	1:O:436:ASN:H	181.04	0.45
1:X:287:ARG:HB3	1:X:290:CYS:SG	2.56	0.45
1:W:333:ILE:HG21	1:W:674:TYR:HE1	1.82	0.45
1:M:486:GLN:NE2	1:M:538:SER:H	2.14	0.45
1:S:470:GLY:O	1:S:473:VAL:HG22	2.23	0.45
1:J:493:LYS:HE3	1:V:460:ASP:HA	148.78	0.45
1:Q:459:LYS:O	1:Q:460:ASP:CB	2.64	0.45
1:I:383:ASN:O	1:I:384:GLY:O	2.33	0.45
1:N:383:ASN:O	1:N:384:GLY:O	2.39	0.45
1:5:615:GLN:NE2	1:5:726:PRO:HA	2.31	0.45
1:N:419:VAL:HG11	1:N:640:LEU:HD23	1.98	0.45
1:A:648:LEU:N	1:A:648:LEU:CD2	2.92	0.45
1:K:736:LEU:HD22	1:U:623:PRO:HB3	172.44	0.45
1:E:622:ILE:CD1	1:E:631:PRO:HB2	2.46	0.45
1:F:544:GLY:O	1:F:545:LYS:HB2	2.31	0.45
1:M:484:TYR:CD1	1:6:599:MET:CE	181.61	0.45
1:S:599:MET:HE3	1:S:602:LEU:CD1	2.45	0.45
1:M:419:VAL:HG11	1:M:640:LEU:CD2	2.46	0.45
1:P:239:VAL:CG1	1:P:685:TRP:HB2	2.63	0.45
1:U:666:LYS:NZ	1:V:719:GLY:O	2.50	0.45
1:M:244:THR:HA	1:M:679:VAL:O	2.16	0.45
1:B:326:THR:O	1:B:326:THR:HG23	2.16	0.45
1:W:254:ASN:O	1:W:255:HIS:HB2	2.16	0.45
1:7:717:ASN:ND2	1:7:717:ASN:H	2.14	0.45
1:W:614:LEU:HD12	1:W:614:LEU:O	2.36	0.45
1:J:655:PRO:HB3	1:J:667:PHE:CE1	2.52	0.45
1:W:652:THR:HG23	1:W:653:PRO:HD2	2.17	0.45
1:Q:501:PHE:HD2	1:Q:501:PHE:N	2.07	0.45
1:B:449:THR:OG1	1:V:501:PHE:CE2	2.68	0.45
1:F:340:THR:HA	1:F:404:LEU:O	2.26	0.45
1:J:359:HIS:CE1	1:V:436:ASN:HB3	131.81	0.45
1:I:437:PRO:HD3	1:V:379:LEU:HD13	126.12	0.45
1:A:519:ASN:HD22	1:A:520:PRO:HD3	1.81	0.45
1:K:441:GLN:HA	1:T:359:HIS:HA	1.98	0.45
1:P:286:ASN:HD21	1:P:618:ILE:N	2.13	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:0:486:GLN:NE2	1:0:538:SER:H	2.14	0.45
1:7:509:TYR:CD1	1:7:518:ILE:HD13	2.40	0.45
1:Y:333:ILE:H	1:Y:333:ILE:HD12	1.83	0.45
1:4:527:HIS:NE2	1:4:564:GLU:CD	2.70	0.45
1:4:527:HIS:NE2	1:4:564:GLU:OE2	2.41	0.45
1:I:459:LYS:O	1:I:460:ASP:CB	2.65	0.45
1:D:450:GLN:OE1	1:Q:499:SER:HA	268.48	0.45
1:S:498:ASN:HD21	1:T:457:GLN:HB3	105.28	0.45
1:Y:297:TRP:CD1	1:Y:301:ILE:CD1	3.00	0.45
1:M:608:GLN:HA	1:T:626:ASP:HB2	110.13	0.45
1:V:423:SER:HB2	1:V:425:TYR:CE2	2.52	0.45
1:E:498:ASN:O	1:E:499:SER:CB	2.70	0.45
1:Q:585:GLN:H	1:U:487:GLN:NE2	126.72	0.45
1:K:446:LEU:HD23	1:U:537:MET:HG3	213.20	0.45
1:P:297:TRP:CD1	1:P:301:ILE:HD11	2.51	0.45
1:5:282:TYR:CE2	1:5:374:PRO:HB2	2.51	0.45
1:X:312:LEU:HD11	1:X:681:VAL:HG13	1.99	0.45
1:R:623:PRO:HB3	1:7:736:LEU:HD22	1.98	0.45
1:C:598:VAL:HG23	1:X:580:VAL:HG11	194.77	0.45
1:N:722:THR:O	1:N:724:PRO:HD3	2.19	0.45
1:N:252:TYR:CZ	1:N:375:GLN:HB2	2.50	0.45
1:M:545:LYS:O	1:M:546:GLU:HB2	2.16	0.45
1:Z:348:GLU:HB2	1:Z:350:GLN:NE2	2.31	0.45
1:L:658:PRO:HG2	1:M:250:PRO:HB3	2.06	0.45
1:F:344:PHE:HB3	1:F:401:SER:HB3	1.99	0.45
1:5:305:TRP:CE3	1:5:734:ARG:NH2	2.84	0.45
1:W:273:TYR:O	1:W:273:TYR:CD1	2.74	0.45
1:O:317:PHE:CD2	1:O:317:PHE:N	2.93	0.45
1:7:700:GLN:HE21	1:7:700:GLN:HA	1.81	0.45
1:W:602:LEU:HD23	1:W:602:LEU:HA	1.83	0.45
1:P:649:ILE:HG12	1:P:650:LYS:N	2.42	0.45
1:J:290:CYS:HB2	1:J:291:HIS:CD2	2.50	0.45
1:A:218:ALA:HB1	1:B:223:ASN:OD1	2.20	0.45
1:M:447:ASN:C	1:S:502:THR:HG21	213.23	0.45
1:D:696:ASN:ND2	1:W:393:PHE:HB3	157.21	0.45
1:B:487:GLN:HE22	1:P:585:GLN:H	211.52	0.45
1:Q:487:GLN:HE22	1:Z:585:GLN:H	116.41	0.45
1:C:537:MET:HG3	1:X:446:LEU:HD23	194.41	0.45
1:Q:501:PHE:CE2	1:Z:449:THR:HG21	133.10	0.45
1:I:447:ASN:C	1:1:502:THR:HG21	2.36	0.45
1:E:502:THR:O	1:E:506:ALA:HB2	2.16	0.45
1:1:357:SER:HB2	1:1:359:HIS:CD2	2.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:437:PRO:HD3	1:J:379:LEU:HD13	1.99	0.45
1:A:473:VAL:HA	1:Z:517:ILE:CG2	154.41	0.45
1:B:437:PRO:HB3	1:V:379:LEU:CD1	2.46	0.45
1:P:486:GLN:O	1:P:574:THR:HA	2.33	0.45
1:A:357:SER:HB2	1:A:359:HIS:CD2	2.59	0.45
1:D:359:HIS:CE1	1:H:436:ASN:H	175.59	0.45
1:K:397:GLU:HB2	1:L:367:PRO:CB	2.60	0.45
1:G:287:ARG:NH1	1:G:615:GLN:O	2.56	0.45
1:O:437:PRO:HD3	1:X:379:LEU:HD13	155.59	0.45
1:D:270:ASP:HA	1:D:514:ARG:HB2	1.99	0.45
1:C:527:HIS:NE2	1:C:562:ASP:OD1	2.51	0.45
1:C:529:ASP:H	1:O:512:ASN:HD21	193.27	0.45
1:5:366:PHE:CE2	1:5:368:ALA:HB3	2.52	0.45
1:4:397:GLU:HG3	1:5:368:ALA:HB2	1.98	0.45
1:V:333:ILE:HD12	1:V:333:ILE:H	1.81	0.45
1:N:470:GLY:O	1:N:473:VAL:HG22	2.24	0.45
1:P:553:THR:HG23	1:P:557:ASN:CB	2.48	0.45
1:Q:701:TYR:CE1	1:Q:727:ILE:HD13	2.52	0.45
1:D:499:SER:HA	1:H:450:GLN:OE1	230.70	0.45
1:M:460:ASP:HA	1:S:493:LYS:HE3	232.66	0.45
1:H:607:TRP:HD1	1:H:608:GLN:O	2.04	0.45
1:M:395:CYS:SG	1:M:397:GLU:HG2	2.57	0.45
1:2:498:ASN:HD21	1:3:457:GLN:HB3	1.80	0.45
1:D:440:ASP:HB2	1:Q:360:GLN:NE2	218.19	0.45
1:Z:238:ARG:HG2	1:Z:238:ARG:NH1	2.30	0.45
1:T:435:MET:HE2	1:T:471:MET:HB3	1.99	0.45
1:K:580:VAL:HG11	1:U:598:VAL:HG23	200.59	0.45
1:H:444:TYR:CE1	1:3:544:GLY:HA2	2.52	0.45
1:Y:299:ARG:NH1	1:1:690:GLU:OE2	2.50	0.45
1:P:272:HIS:CB	1:P:384:GLY:HA2	2.49	0.45
1:E:444:TYR:CE1	1:N:544:GLY:HA2	220.47	0.45
1:H:623:PRO:HB3	1:2:736:LEU:HD22	1.97	0.45
1:L:649:ILE:HG12	1:L:650:LYS:H	1.87	0.45
1:T:622:ILE:CD1	1:T:631:PRO:HB2	2.46	0.45
1:V:226:GLY:HA3	1:V:317:PHE:CD1	2.60	0.45
1:I:254:ASN:O	1:I:255:HIS:HB2	2.29	0.45
1:O:719:GLY:O	1:S:666:LYS:NZ	113.88	0.45
1:0:305:TRP:CE3	1:0:734:ARG:NH2	2.85	0.45
1:1:503:TRP:CD1	1:1:503:TRP:C	2.89	0.45
1:H:717:ASN:ND2	1:H:717:ASN:H	2.14	0.45
1:U:614:LEU:HD12	1:U:614:LEU:O	2.17	0.45
1:G:218:ALA:HB1	1:H:223:ASN:OD1	2.23	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:305:TRP:CE3	1:E:734:ARG:NH2	2.84	0.45
1:A:321:VAL:HG11	1:A:339:SER:HB3	1.98	0.45
1:M:254:ASN:O	1:M:255:HIS:HB2	2.17	0.45
1:3:666:LYS:NZ	1:4:719:GLY:O	2.49	0.45
1:C:219:ASP:O	1:C:220:GLY:O	2.40	0.45
1:J:699:VAL:O	1:J:731:TYR:HB3	2.17	0.45
1:S:502:THR:O	1:S:506:ALA:HB2	2.17	0.45
1:O:487:GLN:NE2	1:P:585:GLN:H	2.14	0.45
1:X:340:THR:HG22	1:X:405:ARG:HG2	2.09	0.45
1:O:393:PHE:HB3	1:P:696:ASN:ND2	2.32	0.45
1:M:441:GLN:HE22	1:M:474:GLN:HB3	1.85	0.45
1:U:441:GLN:HE22	1:U:474:GLN:HB3	1.84	0.45
1:W:517:ILE:HD11	1:W:538:SER:HB3	2.17	0.45
1:V:540:VAL:HG21	1:V:560:ILE:HG23	2.04	0.45
1:E:359:HIS:HA	1:5:441:GLN:HA	122.62	0.45
1:F:432:ASP:O	1:F:435:MET:HE3	2.16	0.45
1:O:615:GLN:NE2	1:O:726:PRO:HA	2.40	0.45
1:L:503:TRP:C	1:L:503:TRP:CD1	2.90	0.45
1:E:472:SER:O	1:G:517:ILE:HG22	74.16	0.45
1:Y:527:HIS:CD2	1:Y:562:ASP:OD2	2.78	0.45
1:J:527:HIS:NE2	1:J:532:ASP:OD1	2.75	0.45
1:N:435:MET:HE2	1:N:471:MET:HB3	1.99	0.45
1:6:486:GLN:O	1:6:574:THR:HA	2.17	0.45
1:M:437:PRO:HD3	1:S:379:LEU:HD13	170.05	0.45
1:O:297:TRP:CD1	1:O:301:ILE:CD1	3.10	0.45
1:D:527:HIS:O	1:D:527:HIS:ND1	2.49	0.45
1:D:564:GLU:O	1:D:567:LYS:HG3	2.17	0.45
1:C:499:SER:HA	1:X:450:GLN:OE1	210.57	0.45
1:Y:301:ILE:HG12	1:Y:729:THR:HA	1.99	0.45
1:M:499:SER:HA	1:6:450:GLN:OE1	191.27	0.45
1:S:609:ASP:O	1:S:730:ARG:NH2	2.47	0.45
1:B:622:ILE:CD1	1:B:631:PRO:HB2	2.46	0.45
1:A:423:SER:HB3	1:J:626:ASP:OD2	2.16	0.45
1:D:629:PHE:O	1:D:630:HIS:C	2.54	0.45
1:L:615:GLN:NE2	1:L:726:PRO:HA	2.31	0.45
1:O:321:VAL:HG11	1:O:339:SER:CB	2.46	0.45
1:T:707:LYS:HD2	1:X:386:GLN:NE2	211.61	0.45
1:F:227:ASN:ND2	1:J:402:GLN:HG3	2.32	0.45
1:N:536:PRO:HG3	1:N:573:ALA:HB3	1.98	0.45
1:C:217:GLY:O	1:C:218:ALA:HB2	2.21	0.45
1:E:524:MET:HG2	1:E:571:PRO:HG2	1.98	0.45
1:E:294:PRO:HB2	1:J:697:PRO:HD3	122.11	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:545:LYS:O	1:U:547:SER:N	2.46	0.45
1:F:344:PHE:HB3	1:F:401:SER:CB	2.46	0.45
1:J:309:PRO:HB2	1:J:416:PHE:CD2	2.61	0.45
1:E:219:ASP:O	1:E:220:GLY:O	2.39	0.45
1:G:295:ARG:O	1:G:298:GLN:HB3	2.18	0.45
1:6:333:ILE:H	1:6:333:ILE:HD12	1.81	0.45
1:1:655:PRO:HG3	1:2:370:VAL:HG11	1.97	0.45
1:C:585:GLN:H	1:N:487:GLN:NE2	126.66	0.45
1:G:501:PHE:HE2	1:4:449:THR:OG1	1.99	0.45
1:O:449:THR:CG2	1:X:500:ASN:HA	200.98	0.45
1:K:564:GLU:O	1:K:567:LYS:HG3	2.16	0.45
1:H:359:HIS:HA	1:W:441:GLN:HA	121.53	0.45
1:D:441:GLN:HA	1:W:359:HIS:HA	161.91	0.45
1:J:436:ASN:HA	1:J:437:PRO:HD2	1.86	0.45
1:Y:503:TRP:CE2	1:Y:508:LYS:HE3	2.52	0.45
1:A:540:VAL:HG21	1:A:560:ILE:HG23	1.97	0.45
1:M:501:PHE:HE2	1:6:449:THR:OG1	182.69	0.45
1:S:527:HIS:HE2	1:S:564:GLU:CD	2.24	0.45
1:N:618:ILE:HB	1:N:619:TRP:CE3	2.62	0.45
1:1:432:ASP:O	1:1:435:MET:HE3	2.16	0.45
1:X:287:ARG:HD2	1:1:442:TYR:CZ	2.50	0.45
1:D:509:TYR:HB3	1:D:518:ILE:HD11	1.98	0.45
1:X:270:ASP:HA	1:X:514:ARG:HB2	2.04	0.45
1:R:270:ASP:HA	1:R:514:ARG:HB2	2.06	0.45
1:B:457:GLN:HB3	1:P:498:ASN:HD21	234.51	0.45
1:I:498:ASN:O	1:I:499:SER:CB	2.66	0.45
1:H:629:PHE:O	1:H:630:HIS:C	2.63	0.45
1:N:690:GLU:OE2	1:6:299:ARG:NH1	174.64	0.45
1:S:555:LEU:C	1:S:555:LEU:HD23	2.43	0.45
1:X:555:LEU:C	1:X:555:LEU:HD23	2.46	0.45
1:5:423:SER:CB	1:5:425:TYR:CE2	3.00	0.45
1:H:484:TYR:CD1	1:W:599:MET:HE2	133.38	0.45
1:B:544:GLY:HA2	1:P:444:TYR:CE1	200.31	0.45
1:B:433:ARG:HG3	1:V:382:ASN:HD21	1.81	0.45
1:Y:599:MET:HE2	1:7:484:TYR:CE1	135.09	0.45
1:R:226:GLY:HA3	1:R:317:PHE:CD1	2.78	0.45
1:B:484:TYR:CE1	1:O:599:MET:HE2	192.06	0.45
1:P:536:PRO:HD2	1:P:540:VAL:HG13	2.02	0.45
1:F:285:PHE:CD2	1:F:681:VAL:HG21	2.51	0.45
1:I:400:PRO:HA	1:J:228:TRP:O	2.17	0.45
1:Z:430:SER:HA	1:Z:568:ALA:HB1	2.04	0.45
1:V:720:LEU:O	1:V:722:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:3:566:ILE:HG13	1:3:570:ASN:HB2	1.99	0.45
1:J:696:ASN:ND2	1:W:393:PHE:HB3	2.32	0.45
1:7:501:PHE:HD2	1:7:501:PHE:N	2.11	0.45
1:K:618:ILE:HB	1:K:619:TRP:CE3	2.58	0.45
1:N:449:THR:OG1	1:5:501:PHE:HE2	256.67	0.45
1:C:508:LYS:CB	1:C:517:ILE:HA	2.44	0.45
1:X:441:GLN:NE2	1:X:474:GLN:HB3	2.37	0.45
1:D:666:LYS:NZ	1:E:719:GLY:O	2.50	0.45
1:K:517:ILE:HG22	1:L:472:SER:O	73.00	0.45
1:L:517:ILE:HG22	1:T:472:SER:O	74.00	0.45
1:C:472:SER:O	1:N:517:ILE:HG22	125.09	0.45
1:X:517:ILE:HD11	1:X:538:SER:OG	2.17	0.45
1:C:564:GLU:O	1:C:567:LYS:HG3	2.22	0.45
1:F:503:TRP:C	1:F:503:TRP:CD1	2.93	0.45
1:E:286:ASN:HD21	1:E:619:TRP:N	2.10	0.45
1:Q:289:HIS:CD2	1:Q:365:PRO:HG3	2.51	0.45
1:Q:297:TRP:CD1	1:Q:301:ILE:CD1	3.09	0.45
1:A:379:LEU:HD13	1:Q:437:PRO:HD3	190.79	0.45
1:H:498:ASN:O	1:H:499:SER:CB	2.64	0.45
1:U:459:LYS:O	1:U:460:ASP:CB	2.64	0.45
1:K:383:ASN:O	1:K:384:GLY:O	2.43	0.45
1:4:607:TRP:HD1	1:4:608:GLN:O	2.00	0.45
1:R:553:THR:HG23	1:R:557:ASN:CB	2.55	0.45
1:F:487:GLN:NE2	1:G:585:GLN:H	103.23	0.45
1:4:247:TRP:HB3	1:4:371:PHE:CE1	2.52	0.45
1:I:262:SER:OG	1:I:272:HIS:HD2	2.10	0.45
1:D:690:GLU:OE2	1:X:299:ARG:NH1	139.45	0.45
1:2:487:GLN:HE22	1:3:585:GLN:H	1.64	0.45
1:J:444:TYR:CE1	1:W:544:GLY:HA2	2.52	0.45
1:B:555:LEU:HD23	1:B:555:LEU:C	2.37	0.45
1:F:580:VAL:HG11	1:4:598:VAL:HG23	97.64	0.45
1:R:736:LEU:HD22	1:Y:623:PRO:HB3	118.22	0.45
1:V:252:TYR:CZ	1:V:375:GLN:HB2	2.52	0.45
1:M:516:SER:HB3	1:S:476:LYS:NZ	192.73	0.45
1:6:257:TYR:O	1:7:719:GLY:HA2	2.17	0.45
1:4:218:ALA:HB1	1:5:223:ASN:OD1	2.15	0.45
1:O:305:TRP:CE3	1:O:734:ARG:NH2	2.84	0.45
1:N:491:LYS:HG3	1:N:533:LYS:O	2.32	0.45
1:S:445:TYR:N	1:S:445:TYR:CD1	2.92	0.45
1:T:445:TYR:N	1:T:445:TYR:CD1	2.89	0.45
1:P:503:TRP:CD1	1:P:503:TRP:C	2.89	0.45
1:T:648:LEU:HD22	1:T:648:LEU:N	2.36	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:280:TRP:CE2	1:C:650:LYS:HD2	2.62	0.45
1:3:272:HIS:HB3	1:3:384:GLY:HA2	1.99	0.45
1:A:634:LEU:HB2	1:W:477:ASN:O	2.16	0.45
1:K:566:ILE:HG13	1:K:570:ASN:HB2	1.99	0.45
1:V:217:GLY:O	1:V:218:ALA:HB2	2.21	0.45
1:C:500:ASN:HA	1:R:449:THR:CG2	257.87	0.45
1:B:446:LEU:HD23	1:V:537:MET:HG3	1.99	0.45
1:Q:340:THR:HA	1:Q:404:LEU:O	2.17	0.45
1:J:437:PRO:C	1:J:438:LEU:HD23	2.37	0.45
1:I:359:HIS:HA	1:X:441:GLN:HA	1.99	0.45
1:A:536:PRO:HD2	1:A:540:VAL:HG13	1.98	0.45
1:M:527:HIS:NE2	1:M:532:ASP:OD1	2.55	0.45
1:7:486:GLN:NE2	1:7:538:SER:H	2.15	0.45
1:M:520:PRO:CG	1:M:635:MET:HG2	2.46	0.45
1:X:359:HIS:O	1:1:442:TYR:HD2	2.00	0.45
1:C:472:SER:HB3	1:N:270:ASP:O	133.97	0.45
1:F:508:LYS:CB	1:F:517:ILE:HA	2.43	0.45
1:R:301:ILE:HG12	1:R:729:THR:HA	1.98	0.45
1:Y:536:PRO:HD2	1:Y:540:VAL:HG13	1.98	0.45
1:A:457:GLN:HB3	1:J:498:ASN:HD21	1.82	0.45
1:E:498:ASN:HD21	1:5:457:GLN:HB3	152.58	0.45
1:F:622:ILE:HD12	1:F:631:PRO:HB2	1.99	0.45
1:A:399:PHE:CE2	1:Q:693:LYS:HG3	166.69	0.45
1:D:272:HIS:CB	1:D:384:GLY:HA2	2.50	0.45
1:M:559:MET:SD	1:M:725:ARG:HA	2.62	0.45
1:N:426:ALA:O	1:N:733:THR:HA	2.16	0.45
1:C:626:ASP:H	1:R:608:GLN:HE22	203.06	0.45
1:5:423:SER:HB2	1:5:425:TYR:CE2	2.51	0.45
1:X:599:MET:HE3	1:X:602:LEU:CD1	2.46	0.45
1:3:615:GLN:HE22	1:3:726:PRO:HA	1.81	0.45
1:H:252:TYR:CE1	1:H:375:GLN:HB2	2.52	0.45
1:G:305:TRP:CE3	1:G:734:ARG:NH2	2.91	0.45
1:U:254:ASN:O	1:U:255:HIS:HB2	2.29	0.45
1:Z:252:TYR:CZ	1:Z:375:GLN:HB2	2.52	0.45
1:G:310:LYS:HA	1:G:310:LYS:HD2	1.82	0.45
1:D:503:TRP:CD1	1:D:503:TRP:C	2.89	0.45
1:O:363:LEU:N	1:O:363:LEU:CD1	2.80	0.45
1:6:219:ASP:O	1:6:220:GLY:O	2.35	0.45
1:T:480:PRO:O	1:T:605:MET:HG2	2.22	0.45
1:W:405:ARG:N	1:W:408:ASN:HD22	2.11	0.45
1:E:487:GLN:NE2	1:F:585:GLN:H	2.15	0.45
1:O:501:PHE:HA	1:O:504:THR:CG2	2.47	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:438:LEU:N	1:A:438:LEU:HD23	2.32	0.45
1:A:475:PRO:HB3	1:Z:519:ASN:HD22	142.07	0.45
1:B:470:GLY:O	1:B:473:VAL:HG22	2.23	0.45
1:I:441:GLN:HE22	1:I:474:GLN:HB3	1.82	0.45
1:A:436:ASN:HB3	1:J:359:HIS:CE1	2.52	0.45
1:C:517:ILE:HG22	1:R:472:SER:O	235.04	0.45
1:D:472:SER:O	1:W:517:ILE:HG22	161.79	0.45
1:Y:367:PRO:CB	1:2:397:GLU:HB2	100.05	0.45
1:P:368:ALA:HB2	1:T:397:GLU:HG3	1.98	0.45
1:F:286:ASN:HD22	1:F:286:ASN:C	2.27	0.45
1:D:364:PRO:HG3	1:D:371:PHE:HB3	1.98	0.45
1:B:270:ASP:HA	1:B:514:ARG:HB2	2.02	0.45
1:Y:629:PHE:O	1:Y:630:HIS:C	2.54	0.45
1:D:333:ILE:HG21	1:D:674:TYR:HE1	1.82	0.45
1:N:436:ASN:H	1:5:359:HIS:CE1	213.02	0.45
1:E:542:ILE:CD1	1:E:560:ILE:HG13	2.48	0.45
1:A:333:ILE:HG21	1:A:674:TYR:HE1	1.82	0.45
1:R:517:ILE:HG22	1:7:472:SER:O	2.17	0.45
1:C:457:GLN:HB3	1:O:498:ASN:HD21	192.72	0.45
1:Z:459:LYS:O	1:Z:460:ASP:CB	2.65	0.45
1:4:553:THR:HG23	1:4:557:ASN:CB	2.43	0.45
1:F:459:LYS:O	1:F:460:ASP:CB	2.70	0.45
1:L:487:GLN:HE22	1:U:585:GLN:H	199.11	0.45
1:M:379:LEU:HD13	1:S:437:PRO:HD3	187.79	0.45
1:E:399:PHE:CE2	1:5:693:LYS:HG3	110.22	0.45
1:N:312:LEU:HD11	1:N:681:VAL:HG13	2.11	0.45
1:3:611:ASP:HB2	1:3:730:ARG:NH1	2.32	0.45
1:6:265:THR:HG23	1:6:266:GLY:N	2.31	0.45
1:C:321:VAL:HG11	1:C:339:SER:CB	2.45	0.45
1:V:555:LEU:C	1:V:555:LEU:HD23	2.44	0.45
1:L:349:TYR:CE2	1:L:643:PRO:HD2	2.77	0.45
1:L:599:MET:HE1	1:L:602:LEU:HD11	2.13	0.45
1:F:321:VAL:HG11	1:F:339:SER:CB	2.47	0.45
1:H:444:TYR:CE2	1:H:465:ARG:HB3	2.55	0.45
1:N:599:MET:HE1	1:5:484:TYR:HD1	218.78	0.45
1:P:384:GLY:C	1:P:386:GLN:H	2.20	0.45
1:P:314:PHE:HD1	1:P:681:VAL:HG22	1.94	0.45
1:3:578:GLY:O	1:3:596:VAL:HG12	2.17	0.45
1:V:666:LYS:NZ	1:W:719:GLY:O	2.50	0.45
1:J:524:MET:HG2	1:J:571:PRO:HG2	1.98	0.45
1:Y:736:LEU:HD22	1:7:623:PRO:HB3	115.57	0.45
1:Y:239:VAL:CG1	1:Y:685:TRP:HB2	2.47	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:317:PHE:N	1:P:317:PHE:CD2	2.87	0.45
1:H:506:ALA:HA	1:H:537:MET:HE1	1.99	0.45
1:R:447:ASN:HB2	1:R:464:SER:OG	2.17	0.45
1:I:487:GLN:HE22	1:J:585:GLN:H	103.88	0.45
1:I:501:PHE:CE2	1:J:449:THR:HG21	98.64	0.45
1:N:449:THR:OG1	1:R:501:PHE:HE2	210.59	0.45
1:M:501:PHE:HD2	1:M:501:PHE:N	2.14	0.45
1:3:486:GLN:NE2	1:3:538:SER:H	2.14	0.45
1:L:503:TRP:CE2	1:L:508:LYS:HE3	2.71	0.45
1:O:707:LYS:HD2	1:S:386:GLN:NE2	151.37	0.45
1:H:245:ARG:NE	1:H:367:PRO:HA	2.31	0.45
1:O:527:HIS:HE2	1:O:564:GLU:CD	2.21	0.45
1:Q:286:ASN:HD21	1:Q:619:TRP:N	2.11	0.45
1:M:609:ASP:O	1:M:730:ARG:NH2	2.46	0.45
1:4:459:LYS:O	1:4:460:ASP:CB	2.65	0.45
1:C:611:ASP:HB2	1:C:730:ARG:NH1	2.32	0.45
1:E:423:SER:HB3	1:N:626:ASP:OD2	187.83	0.45
1:V:622:ILE:HD12	1:V:631:PRO:HB2	1.98	0.45
1:2:493:LYS:HE3	1:3:460:ASP:HA	1.99	0.45
1:F:423:SER:HB3	1:4:626:ASP:OD2	90.33	0.45
1:O:634:LEU:HB2	1:P:477:ASN:O	2.17	0.45
1:F:238:ARG:NH1	1:F:238:ARG:HG2	2.32	0.45
1:5:444:TYR:CE2	1:5:465:ARG:HB3	2.51	0.45
1:G:666:LYS:NZ	1:H:719:GLY:O	2.54	0.45
1:O:720:LEU:O	1:O:722:THR:HG22	2.22	0.45
1:P:649:ILE:HG12	1:P:650:LYS:H	1.89	0.45
1:D:305:TRP:CE3	1:D:734:ARG:NH2	2.92	0.45
1:N:440:ASP:HB2	1:5:360:GLN:NE2	224.49	0.45
1:7:305:TRP:CE3	1:7:734:ARG:NH2	2.85	0.45
1:Y:622:ILE:H	1:Y:622:ILE:HG12	1.64	0.45
1:Z:218:ALA:HB1	1:O:223:ASN:OD1	76.07	0.45
1:Z:243:SER:O	1:Z:680:SER:HA	2.24	0.45
1:R:254:ASN:O	1:R:255:HIS:HB2	2.17	0.45
1:2:280:TRP:CE2	1:2:650:LYS:HD2	2.52	0.45
1:I:497:ASN:ND2	1:J:590:ASP:HA	105.52	0.45
1:E:382:ASN:HD21	1:F:433:ARG:HG3	1.81	0.45
1:3:501:PHE:N	1:3:501:PHE:HD2	2.06	0.44
1:I:501:PHE:HE2	1:J:449:THR:OG1	101.71	0.44
1:E:501:PHE:H	1:F:449:THR:CG2	2.29	0.44
1:K:501:PHE:HD2	1:K:501:PHE:N	2.17	0.44
1:B:441:GLN:HE22	1:B:474:GLN:HB3	1.83	0.44
1:M:436:ASN:HB3	1:S:359:HIS:CE1	175.55	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:431:LEU:HD23	1:G:431:LEU:O	2.17	0.44
1:A:368:ALA:HB2	1:E:397:GLU:HG3	1.98	0.44
1:F:322:LYS:CE	1:F:335:ASN:ND2	2.74	0.44
1:A:517:ILE:HG22	1:W:472:SER:O	2.17	0.44
1:L:486:GLN:NE2	1:L:538:SER:H	2.16	0.44
1:S:509:TYR:CD1	1:S:518:ILE:HD13	2.43	0.44
1:X:486:GLN:NE2	1:X:538:SER:H	2.22	0.44
1:Z:619:TRP:C	1:Z:619:TRP:CD1	2.98	0.44
1:N:441:GLN:HE22	1:N:474:GLN:HB3	1.82	0.44
1:C:542:ILE:CD1	1:C:560:ILE:HG13	2.50	0.44
1:S:333:ILE:H	1:S:333:ILE:HD12	1.81	0.44
1:B:460:ASP:HA	1:P:493:LYS:HE3	224.37	0.44
1:C:498:ASN:O	1:C:499:SER:CB	2.65	0.44
1:K:460:ASP:HA	1:U:493:LYS:HE3	228.39	0.44
1:L:497:ASN:ND2	1:U:590:ASP:HA	209.32	0.44
1:A:499:SER:HA	1:W:450:GLN:OE1	2.17	0.44
1:U:629:PHE:O	1:U:630:HIS:C	2.63	0.44
1:F:622:ILE:CD1	1:F:631:PRO:HB2	2.48	0.44
1:4:282:TYR:CE2	1:4:374:PRO:HB2	2.51	0.44
1:D:608:GLN:HE22	1:Q:626:ASP:H	203.05	0.44
1:R:622:ILE:HG12	1:R:622:ILE:H	1.61	0.44
1:N:312:LEU:HD13	1:N:683:ILE:HG12	2.08	0.44
1:Y:555:LEU:C	1:Y:555:LEU:HD23	2.36	0.44
1:W:312:LEU:HD12	1:W:313:ASN:N	2.36	0.44
1:E:626:ASP:H	1:5:608:GLN:NE2	117.54	0.44
1:Y:608:GLN:HE22	1:0:626:ASP:H	1.65	0.44
1:I:442:TYR:CZ	1:1:287:ARG:HD2	2.51	0.44
1:I:484:TYR:CE1	1:J:599:MET:HE2	77.96	0.44
1:O:218:ALA:HB1	1:P:223:ASN:OD1	76.06	0.44
1:K:444:TYR:CE2	1:K:465:ARG:HB3	2.52	0.44
1:K:333:ILE:H	1:K:333:ILE:HD12	1.86	0.44
1:2:321:VAL:HG11	1:2:339:SER:CB	2.46	0.44
1:M:476:LYS:NZ	1:S:516:SER:HB3	184.70	0.44
1:X:327:ASN:O	1:X:328:ASP:HB2	2.20	0.44
1:1:720:LEU:O	1:1:722:THR:HG22	2.16	0.44
1:Q:273:TYR:CD1	1:Q:273:TYR:O	2.83	0.44
1:Y:445:TYR:CD1	1:Y:445:TYR:N	2.88	0.44
1:6:700:GLN:HE21	1:6:700:GLN:HA	1.82	0.44
1:H:445:TYR:N	1:H:445:TYR:CD1	2.87	0.44
1:2:545:LYS:O	1:2:547:SER:N	2.43	0.44
1:1:524:MET:HG2	1:1:571:PRO:HG2	1.98	0.44
1:T:280:TRP:CE2	1:T:650:LYS:HD2	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:447:ASN:O	1:N:502:THR:HG21	240.98	0.44
1:R:449:THR:OG1	1:Y:501:PHE:HE2	143.92	0.44
1:D:472:SER:O	1:Q:517:ILE:HG22	234.99	0.44
1:U:719:GLY:HA2	1:Y:257:TYR:O	2.18	0.44
1:O:519:ASN:CB	1:P:475:PRO:HA	2.44	0.44
1:K:486:GLN:O	1:K:574:THR:HA	2.18	0.44
1:G:486:GLN:NE2	1:G:538:SER:H	2.15	0.44
1:H:286:ASN:HD21	1:H:619:TRP:N	2.12	0.44
1:R:397:GLU:O	1:S:230:CYS:HB3	2.33	0.44
1:5:438:LEU:HD23	1:5:438:LEU:N	2.32	0.44
1:7:245:ARG:NE	1:7:367:PRO:HA	2.32	0.44
1:H:379:LEU:HD13	1:2:437:PRO:CG	2.47	0.44
1:M:438:LEU:O	1:M:439:ILE:HD13	2.24	0.44
1:I:333:ILE:HG21	1:I:674:TYR:HE1	1.83	0.44
1:C:540:VAL:HG21	1:C:560:ILE:HG23	1.99	0.44
1:X:626:ASP:OD2	1:1:423:SER:HB3	2.17	0.44
1:V:272:HIS:CB	1:V:384:GLY:HA2	2.47	0.44
1:6:553:THR:HG23	1:6:557:ASN:CB	2.45	0.44
1:M:536:PRO:HD2	1:M:540:VAL:HG13	2.11	0.44
1:1:611:ASP:HB2	1:1:730:ARG:NH1	2.32	0.44
1:C:599:MET:CE	1:O:484:TYR:CD1	181.85	0.44
1:F:359:HIS:CE1	1:G:436:ASN:H	66.41	0.44
1:M:386:GLN:NE2	1:N:707:LYS:HD2	2.36	0.44
1:L:623:PRO:HB3	1:T:736:LEU:HD22	78.18	0.44
1:J:382:ASN:HD21	1:V:433:ARG:HG3	126.60	0.44
1:X:272:HIS:CB	1:X:384:GLY:HA2	2.46	0.44
1:2:324:VAL:HB	1:2:333:ILE:HG23	1.98	0.44
1:E:272:HIS:CB	1:E:384:GLY:HA2	2.47	0.44
1:L:280:TRP:CE2	1:L:650:LYS:HD2	2.51	0.44
1:N:217:GLY:O	1:N:218:ALA:HB2	2.18	0.44
1:S:536:PRO:HD2	1:S:540:VAL:HG13	2.08	0.44
1:1:402:GLN:HG3	1:2:227:ASN:HD21	1.82	0.44
1:E:360:GLN:NE2	1:5:440:ASP:HB2	125.57	0.44
1:C:327:ASN:O	1:C:328:ASP:HB2	2.17	0.44
1:1:327:ASN:O	1:1:328:ASP:HB2	2.18	0.44
1:4:649:ILE:HG12	1:4:650:LYS:H	1.82	0.44
1:Y:227:ASN:HD21	1:2:402:GLN:HG3	86.55	0.44
1:6:622:ILE:CD1	1:6:631:PRO:HB2	2.47	0.44
1:Z:541:MET:HE3	1:0:443:LEU:HD11	1.98	0.44
1:K:327:ASN:O	1:K:328:ASP:HB2	2.17	0.44
1:S:238:ARG:HH11	1:S:238:ARG:HG2	1.85	0.44
1:R:445:TYR:N	1:R:445:TYR:CD1	2.89	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:5:700:GLN:HE21	1:5:700:GLN:HA	1.80	0.44
1:D:566:ILE:HG13	1:D:570:ASN:HB2	1.99	0.44
1:6:403:MET:HG3	1:7:227:ASN:HA	1.99	0.44
1:G:344:PHE:HB3	1:G:401:SER:HB3	1.99	0.44
1:H:449:THR:CG2	1:3:500:ASN:HA	2.40	0.44
1:G:487:GLN:HE21	1:G:488:ARG:H	1.66	0.44
1:B:502:THR:HG21	1:P:447:ASN:O	215.56	0.44
1:J:405:ARG:H	1:J:408:ASN:ND2	2.01	0.44
1:A:696:ASN:ND2	1:Z:393:PHE:HB3	168.32	0.44
1:J:504:THR:CG2	1:J:505:GLY:N	2.93	0.44
1:0:504:THR:CG2	1:0:505:GLY:N	2.80	0.44
1:K:501:PHE:CA	1:K:504:THR:HG22	2.50	0.44
1:4:509:TYR:HB3	1:4:518:ILE:HD11	1.97	0.44
1:4:357:SER:HB2	1:4:359:HIS:CD2	2.52	0.44
1:K:301:ILE:HG12	1:K:729:THR:HA	2.08	0.44
1:A:333:ILE:HD12	1:A:333:ILE:H	1.83	0.44
1:4:245:ARG:NE	1:4:367:PRO:HA	2.32	0.44
1:P:527:HIS:NE2	1:P:564:GLU:CD	2.70	0.44
1:R:457:GLN:HB3	1:Y:498:ASN:HD21	152.76	0.44
1:U:498:ASN:O	1:U:499:SER:OG	2.33	0.44
1:Y:457:GLN:HB3	1:7:498:ASN:HD21	158.94	0.44
1:A:527:HIS:HE2	1:A:564:GLU:CD	2.20	0.44
1:7:553:THR:HG23	1:7:557:ASN:CB	2.44	0.44
1:3:322:LYS:HB2	1:3:674:TYR:CE1	2.52	0.44
1:D:611:ASP:HB2	1:D:730:ARG:NH1	2.33	0.44
1:E:349:TYR:CE2	1:E:643:PRO:HD2	2.52	0.44
1:Y:626:ASP:OD2	1:Z:423:SER:HB3	2.16	0.44
1:E:626:ASP:H	1:F:608:GLN:HE22	1.65	0.44
1:X:643:PRO:O	1:X:644:PRO:C	2.60	0.44
1:J:640:LEU:HD12	1:J:643:PRO:HA	1.99	0.44
1:F:736:LEU:HD22	1:4:623:PRO:HB3	103.52	0.44
1:A:697:PRO:HD3	1:0:294:PRO:CB	160.63	0.44
1:T:217:GLY:O	1:T:218:ALA:HB2	2.17	0.44
1:L:419:VAL:HG11	1:L:640:LEU:HD23	2.04	0.44
1:A:444:TYR:CE2	1:A:465:ARG:HB3	2.58	0.44
1:S:444:TYR:CE2	1:S:465:ARG:HB3	2.54	0.44
1:V:280:TRP:CE2	1:V:650:LYS:HD2	2.52	0.44
1:6:622:ILE:HD12	1:6:631:PRO:HB2	1.99	0.44
1:P:219:ASP:O	1:P:220:GLY:O	2.35	0.44
1:1:230:CYS:HA	1:1:242:THR:O	2.17	0.44
1:4:566:ILE:HG13	1:4:570:ASN:HB2	1.99	0.44
1:2:314:PHE:HB3	1:2:412:PHE:HD1	1.82	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:1:648:LEU:HD22	1:1:648:LEU:N	2.32	0.44
1:X:445:TYR:CD1	1:X:445:TYR:N	2.85	0.44
1:L:445:TYR:CD1	1:L:445:TYR:N	2.86	0.44
1:D:717:ASN:ND2	1:D:717:ASN:H	2.16	0.44
1:H:309:PRO:HB2	1:H:416:PHE:CD2	2.60	0.44
1:Y:344:PHE:HB3	1:Y:401:SER:CB	2.47	0.44
1:R:360:GLN:NE2	1:7:440:ASP:HB2	2.32	0.44
1:D:578:GLY:O	1:D:596:VAL:HG12	2.17	0.44
1:K:649:ILE:HG12	1:K:650:LYS:N	2.40	0.44
1:5:253:ASN:O	1:5:254:ASN:C	2.56	0.44
1:U:239:VAL:CG1	1:U:685:TRP:HB2	2.47	0.44
1:A:502:THR:HG21	1:Q:447:ASN:C	214.62	0.44
1:X:506:ALA:HA	1:X:537:MET:HE1	1.99	0.44
1:E:696:ASN:ND2	1:G:393:PHE:HB3	105.34	0.44
1:F:502:THR:HG21	1:G:447:ASN:O	91.31	0.44
1:A:449:THR:OG1	1:J:501:PHE:HE2	2.01	0.44
1:R:286:ASN:HD21	1:R:619:TRP:N	2.12	0.44
1:A:441:GLN:HE22	1:A:474:GLN:HB3	1.82	0.44
1:B:437:PRO:HB3	1:P:379:LEU:CD1	193.53	0.44
1:I:438:LEU:O	1:I:439:ILE:HD13	2.18	0.44
1:2:432:ASP:O	1:2:435:MET:CE	2.64	0.44
1:I:397:GLU:HB2	1:J:367:PRO:HB2	1.98	0.44
1:J:366:PHE:HA	1:J:367:PRO:HD3	1.88	0.44
1:V:301:ILE:HG12	1:V:729:THR:HA	2.08	0.44
1:O:517:ILE:CG2	1:P:473:VAL:HA	2.44	0.44
1:Y:251:THR:HG22	1:Y:673:GLN:O	2.18	0.44
1:6:286:ASN:C	1:6:286:ASN:HD22	2.20	0.44
1:6:270:ASP:HA	1:6:514:ARG:HB2	2.00	0.44
1:H:379:LEU:HD13	1:2:437:PRO:HG3	1.99	0.44
1:S:333:ILE:HG21	1:S:674:TYR:HE1	1.81	0.44
1:J:498:ASN:O	1:J:499:SER:CB	2.65	0.44
1:S:459:LYS:O	1:S:460:ASP:CB	2.65	0.44
1:J:626:ASP:OD2	1:V:423:SER:HB3	90.41	0.44
1:O:272:HIS:CB	1:O:384:GLY:HA2	2.50	0.44
1:C:690:GLU:OE2	1:O:299:ARG:NH1	128.29	0.44
1:N:262:SER:OG	1:N:272:HIS:HD2	2.01	0.44
1:3:629:PHE:O	1:3:630:HIS:C	2.55	0.44
1:I:624:HIS:O	1:X:427:HIS:HE1	2.00	0.44
1:W:272:HIS:CB	1:W:384:GLY:HA2	2.51	0.44
1:O:349:TYR:OH	1:O:643:PRO:O	2.30	0.44
1:X:624:HIS:O	1:1:427:HIS:HE1	1.99	0.44
1:K:252:TYR:OH	1:K:373:ILE:O	2.26	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:722:THR:O	1:M:724:PRO:HD3	2.18	0.44
1:O:360:GLN:NE2	1:P:440:ASP:HB2	2.33	0.44
1:J:223:ASN:OD1	1:N:218:ALA:HB1	172.47	0.44
1:C:649:ILE:HG12	1:C:650:LYS:N	2.37	0.44
1:B:545:LYS:O	1:B:546:GLU:HB2	2.21	0.44
1:Q:327:ASN:O	1:Q:328:ASP:HB2	2.17	0.44
1:V:254:ASN:O	1:V:255:HIS:HB2	2.23	0.44
1:T:310:LYS:HD2	1:T:310:LYS:HA	1.84	0.44
1:C:317:PHE:N	1:C:317:PHE:CD2	2.86	0.44
1:D:310:LYS:HD2	1:D:310:LYS:HA	1.89	0.44
1:L:243:SER:O	1:L:680:SER:HA	2.17	0.44
1:D:295:ARG:O	1:D:298:GLN:HB3	2.18	0.44
1:K:305:TRP:CE3	1:K:734:ARG:NH2	2.88	0.44
1:D:390:ARG:HG3	1:H:699:VAL:HG21	143.89	0.44
1:A:501:PHE:HE2	1:Q:449:THR:OG1	219.39	0.44
1:Y:405:ARG:H	1:Y:408:ASN:ND2	2.06	0.44
1:B:585:GLN:H	1:V:487:GLN:NE2	2.16	0.44
1:4:501:PHE:CA	1:4:504:THR:HG22	2.47	0.44
1:D:441:GLN:HA	1:Q:359:HIS:HA	213.90	0.44
1:I:379:LEU:HD13	1:J:437:PRO:HD3	56.39	0.44
1:J:472:SER:O	1:W:517:ILE:HG22	2.17	0.44
1:J:368:ALA:HB2	1:N:397:GLU:HG3	197.47	0.44
1:G:359:HIS:HA	1:4:441:GLN:HA	1.98	0.44
1:D:536:PRO:HD2	1:D:540:VAL:HG13	1.98	0.44
1:L:322:LYS:CE	1:L:335:ASN:HD21	2.31	0.44
1:Y:540:VAL:HG21	1:Y:560:ILE:HG23	2.00	0.44
1:F:658:PRO:HD3	1:G:674:TYR:CD2	2.52	0.44
1:W:297:TRP:CD1	1:W:301:ILE:CD1	3.05	0.44
1:U:297:TRP:CD1	1:U:301:ILE:CD1	3.01	0.44
1:D:459:LYS:O	1:D:460:ASP:CB	2.66	0.44
1:H:458:ASN:O	1:H:459:LYS:C	2.57	0.44
1:Q:460:ASP:HA	1:U:493:LYS:HE3	114.62	0.44
1:D:630:HIS:NE2	1:W:627:GLY:HA3	122.60	0.44
1:A:487:GLN:HE21	1:A:488:ARG:H	1.68	0.44
1:I:626:ASP:H	1:J:608:GLN:HE22	43.82	0.44
1:3:438:LEU:N	1:3:438:LEU:HD23	2.33	0.44
1:E:615:GLN:NE2	1:E:726:PRO:HA	2.30	0.44
1:E:626:ASP:OD2	1:5:423:SER:HB3	114.68	0.44
1:C:477:ASN:O	1:O:634:LEU:HB2	158.28	0.44
1:H:736:LEU:HD22	1:3:623:PRO:HB3	2.00	0.44
1:T:402:GLN:HG3	1:U:227:ASN:ND2	144.84	0.44
1:2:722:THR:O	1:2:724:PRO:HD3	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:484:TYR:CE1	1:S:599:MET:HE2	189.88	0.44
1:K:544:GLY:HA2	1:L:444:TYR:CE1	96.60	0.44
1:A:382:ASN:HD21	1:Q:433:ARG:HG3	196.50	0.44
1:J:239:VAL:HG12	1:J:685:TRP:HB2	1.98	0.44
1:E:427:HIS:HE1	1:G:624:HIS:O	83.74	0.44
1:B:427:HIS:HE1	1:V:624:HIS:O	2.01	0.44
1:F:598:VAL:HG23	1:G:580:VAL:HG11	86.74	0.44
1:S:305:TRP:CE3	1:S:734:ARG:NH2	2.99	0.44
1:S:648:LEU:N	1:S:648:LEU:HD22	2.32	0.44
1:G:314:PHE:HD1	1:G:681:VAL:HG22	1.82	0.44
1:3:658:PRO:HG2	1:4:250:PRO:HB3	1.98	0.44
1:0:658:PRO:HG2	1:1:250:PRO:HB3	1.99	0.44
1:A:524:MET:HG2	1:A:571:PRO:HG2	1.99	0.44
1:Y:314:PHE:HB3	1:Y:412:PHE:HD1	1.82	0.44
1:E:585:GLN:H	1:G:487:GLN:HE22	61.46	0.44
1:Y:340:THR:HG22	1:Y:405:ARG:HG2	1.99	0.44
1:V:340:THR:HG22	1:V:405:ARG:HG2	2.04	0.44
1:R:405:ARG:H	1:R:408:ASN:ND2	2.05	0.44
1:I:437:PRO:C	1:I:438:LEU:HD23	2.38	0.44
1:J:536:PRO:HD2	1:J:540:VAL:HG13	2.00	0.44
1:P:519:ASN:CB	1:V:475:PRO:HA	190.05	0.44
1:2:441:GLN:HE22	1:2:474:GLN:HB3	1.81	0.44
1:I:287:ARG:HG3	1:I:616:GLY:O	2.16	0.44
1:R:441:GLN:HA	1:Y:359:HIS:HA	122.79	0.44
1:6:446:LEU:HD13	1:6:463:PHE:CE2	2.53	0.44
1:J:257:TYR:O	1:K:719:GLY:HA2	224.53	0.44
1:O:520:PRO:CG	1:O:635:MET:HG2	2.46	0.44
1:O:437:PRO:HB3	1:X:379:LEU:CD1	157.65	0.44
1:B:333:ILE:H	1:B:333:ILE:HD12	1.83	0.44
1:B:619:TRP:CD1	1:B:619:TRP:C	2.94	0.44
1:A:618:ILE:HB	1:A:619:TRP:CE3	2.63	0.44
1:L:333:ILE:HG21	1:L:674:TYR:HE1	1.83	0.44
1:G:493:LYS:HE3	1:4:460:ASP:HA	2.00	0.44
1:K:542:ILE:CD1	1:K:560:ILE:HG13	2.43	0.44
1:L:499:SER:HA	1:U:450:GLN:OE1	204.29	0.44
1:A:608:GLN:HA	1:Z:626:ASP:HB2	139.89	0.44
1:K:585:GLN:H	1:T:487:GLN:HE22	1.64	0.44
1:7:301:ILE:HG12	1:7:729:THR:HA	1.98	0.44
1:O:484:TYR:CD1	1:P:599:MET:CE	3.01	0.44
1:4:247:TRP:HB2	1:4:373:ILE:HD11	2.00	0.44
1:M:289:HIS:CD2	1:M:365:PRO:HG3	2.57	0.44
1:K:599:MET:CE	1:T:484:TYR:CD1	3.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:217:GLY:O	1:J:218:ALA:HB2	2.18	0.44
1:F:545:LYS:O	1:F:546:GLU:HB2	2.31	0.44
1:L:634:LEU:HB2	1:U:477:ASN:O	165.53	0.44
1:V:238:ARG:HG2	1:V:238:ARG:NH1	2.40	0.44
1:F:427:HIS:HE1	1:4:624:HIS:O	99.70	0.44
1:Z:383:ASN:O	1:Z:384:GLY:O	2.36	0.44
1:U:722:THR:O	1:U:724:PRO:HD3	2.18	0.44
1:N:403:MET:HG3	1:O:227:ASN:HA	1.99	0.44
1:Y:649:ILE:HG12	1:Y:650:LYS:H	1.83	0.44
1:7:252:TYR:CZ	1:7:375:GLN:HB2	2.52	0.44
1:2:524:MET:HG2	1:2:571:PRO:HG2	1.98	0.44
1:C:717:ASN:H	1:C:717:ASN:ND2	2.20	0.44
1:K:624:HIS:O	1:L:427:HIS:HE1	42.29	0.44
1:G:400:PRO:HA	1:H:228:TRP:O	2.18	0.44
1:L:327:ASN:O	1:L:328:ASP:HB2	2.19	0.44
1:T:230:CYS:HA	1:T:242:THR:O	2.35	0.44
1:3:501:PHE:CA	1:3:504:THR:HG22	2.45	0.44
1:I:501:PHE:HD2	1:I:501:PHE:N	2.06	0.44
1:Q:486:GLN:HE22	1:Q:538:SER:N	2.21	0.44
1:Z:441:GLN:HE22	1:Z:474:GLN:HB3	1.89	0.44
1:M:502:THR:O	1:M:506:ALA:HB2	2.17	0.44
1:F:364:PRO:CG	1:F:371:PHE:HB3	2.48	0.44
1:J:397:GLU:HB2	1:K:367:PRO:CB	200.70	0.44
1:Y:472:SER:O	1:7:517:ILE:HG22	134.75	0.44
1:N:520:PRO:CG	1:N:635:MET:HG2	2.48	0.44
1:N:486:GLN:NE2	1:N:538:SER:H	2.27	0.44
1:X:508:LYS:CB	1:X:517:ILE:HA	2.44	0.44
1:B:443:LEU:HD13	1:P:542:ILE:O	193.95	0.44
1:4:532:ASP:OD1	1:4:564:GLU:OE2	2.36	0.44
1:Y:475:PRO:HA	1:0:519:ASN:CB	2.45	0.44
1:R:520:PRO:CG	1:R:635:MET:HG2	2.48	0.44
1:M:486:GLN:NE2	1:M:539:GLY:N	2.64	0.44
1:2:503:TRP:CD1	1:2:503:TRP:C	2.91	0.44
1:E:314:PHE:HD1	1:E:681:VAL:HG22	1.81	0.44
1:Q:607:TRP:HD1	1:Q:608:GLN:O	2.08	0.44
1:O:384:GLY:O	1:O:386:GLN:N	2.58	0.44
1:V:386:GLN:NE2	1:W:707:LYS:HD2	2.42	0.44
1:A:272:HIS:CB	1:A:384:GLY:HA2	2.48	0.44
1:A:289:HIS:NE2	1:A:365:PRO:HG3	2.31	0.44
1:H:313:ASN:HB3	1:H:682:GLU:HB3	2.00	0.44
1:I:360:GLN:NE2	1:J:440:ASP:HB2	82.78	0.44
1:M:262:SER:OG	1:M:272:HIS:HD2	2.06	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:487:GLN:NE2	1:3:585:GLN:H	2.16	0.44
1:P:484:TYR:CE1	1:V:599:MET:HE2	191.87	0.44
1:B:580:VAL:HG11	1:V:598:VAL:HG23	1.99	0.44
1:3:312:LEU:HD13	1:3:683:ILE:HG12	1.99	0.44
1:0:309:PRO:HB2	1:0:416:PHE:CE2	2.53	0.44
1:Q:484:TYR:CE1	1:Z:599:MET:HE2	97.10	0.44
1:J:580:VAL:HG11	1:W:598:VAL:HG23	2.00	0.44
1:C:443:LEU:HD11	1:N:541:MET:HE3	102.13	0.44
1:C:649:ILE:HG12	1:C:650:LYS:H	1.83	0.44
1:H:254:ASN:O	1:H:255:HIS:HB2	2.32	0.44
1:X:524:MET:HG2	1:X:571:PRO:HG2	2.00	0.44
1:R:402:GLN:HG3	1:S:227:ASN:HD21	2.10	0.44
1:Q:239:VAL:CG1	1:Q:685:TRP:HB2	2.66	0.44
1:A:614:LEU:O	1:A:614:LEU:HD12	2.31	0.44
1:V:593:THR:O	1:V:593:THR:HG22	2.28	0.44
1:J:503:TRP:CD1	1:J:503:TRP:C	2.92	0.44
1:H:244:THR:HA	1:H:679:VAL:O	2.17	0.44
1:Z:327:ASN:O	1:Z:328:ASP:HB2	2.20	0.44
1:K:449:THR:HG21	1:T:501:PHE:CE2	2.52	0.44
1:Y:487:GLN:HE22	1:Z:585:GLN:H	1.66	0.44
1:J:501:PHE:HE2	1:V:449:THR:OG1	134.93	0.44
1:B:449:THR:OG1	1:P:501:PHE:HE2	219.43	0.44
1:B:475:PRO:HA	1:P:519:ASN:CB	193.71	0.44
1:V:438:LEU:HD23	1:V:438:LEU:N	2.33	0.44
1:C:486:GLN:NE2	1:C:538:SER:H	2.25	0.44
1:I:290:CYS:HB2	1:I:291:HIS:CD2	2.63	0.44
1:F:437:PRO:HB3	1:4:379:LEU:CD1	134.75	0.44
1:F:251:THR:HG22	1:F:673:GLN:O	2.18	0.44
1:1:441:GLN:NE2	1:1:474:GLN:HB3	2.33	0.44
1:H:486:GLN:NE2	1:H:538:SER:H	2.16	0.44
1:U:286:ASN:HD21	1:U:618:ILE:N	2.14	0.44
1:U:395:CYS:SG	1:U:397:GLU:HG2	2.60	0.44
1:2:486:GLN:NE2	1:2:539:GLY:N	2.63	0.44
1:3:470:GLY:O	1:3:473:VAL:HG22	2.17	0.44
1:W:364:PRO:HG3	1:W:371:PHE:HB3	2.00	0.44
1:Q:301:ILE:CD1	1:Q:728:GLY:O	2.82	0.44
1:B:499:SER:HA	1:O:450:GLN:OE1	228.73	0.44
1:X:536:PRO:HD2	1:X:540:VAL:HG13	1.98	0.44
1:P:498:ASN:HD21	1:V:457:GLN:HB3	233.78	0.44
1:6:458:ASN:O	1:6:459:LYS:C	2.56	0.44
1:L:626:ASP:H	1:T:608:GLN:HE22	86.24	0.44
1:A:626:ASP:HB2	1:Q:608:GLN:HA	174.37	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:608:GLN:HA	1:X:626:ASP:HB2	159.59	0.44
1:E:497:ASN:OD1	1:E:498:ASN:O	2.35	0.44
1:K:693:LYS:HD3	1:K:693:LYS:HA	1.88	0.44
1:J:272:HIS:CB	1:J:384:GLY:HA2	2.48	0.44
1:S:287:ARG:NH1	1:S:615:GLN:O	2.45	0.44
1:R:608:GLN:HE22	1:Y:626:ASP:H	117.01	0.44
1:R:383:ASN:O	1:R:384:GLY:O	2.42	0.44
1:P:615:GLN:NE2	1:P:726:PRO:HA	2.32	0.44
1:L:693:LYS:HA	1:L:693:LYS:HD3	1.88	0.44
1:L:438:LEU:HD23	1:L:438:LEU:N	2.34	0.44
1:D:643:PRO:O	1:D:644:PRO:C	2.56	0.44
1:U:250:PRO:HB3	1:Y:658:PRO:HG2	2.00	0.44
1:B:312:LEU:HD13	1:B:683:ILE:HG12	2.06	0.44
1:B:289:HIS:CG	1:B:365:PRO:HG3	2.58	0.44
1:I:599:MET:HE2	1:I:484:TYR:CD1	2.53	0.44
1:V:484:TYR:CD1	1:V:598:VAL:HG22	2.53	0.44
1:M:287:ARG:HD2	1:S:442:TYR:CZ	170.98	0.44
1:P:223:ASN:OD1	1:T:218:ALA:HB1	2.18	0.44
1:2:217:GLY:O	1:2:218:ALA:HB2	2.18	0.44
1:K:257:TYR:O	1:L:719:GLY:HA2	2.20	0.44
1:B:402:GLN:HG3	1:C:227:ASN:ND2	2.40	0.44
1:R:624:HIS:O	1:7:427:HIS:HE1	2.00	0.44
1:O:423:SER:CB	1:O:425:TYR:CE2	3.01	0.44
1:Y:244:THR:HA	1:Y:679:VAL:O	2.18	0.44
1:E:327:ASN:O	1:E:328:ASP:HB2	2.20	0.44
1:3:648:LEU:N	1:3:648:LEU:HD22	2.32	0.44
1:N:648:LEU:N	1:N:648:LEU:HD22	2.32	0.44
1:V:614:LEU:HD12	1:V:614:LEU:O	2.25	0.44
1:2:652:THR:HG23	1:2:653:PRO:HD2	2.00	0.44
1:W:468:PRO:O	1:W:471:MET:HG3	2.18	0.44
1:M:449:THR:HG21	1:S:501:PHE:CE2	221.59	0.44
1:F:393:PHE:N	1:G:696:ASN:ND2	32.38	0.44
1:T:340:THR:HA	1:T:404:LEU:O	2.33	0.44
1:Z:340:THR:HG22	1:Z:405:ARG:HG2	2.07	0.44
1:C:487:GLN:NE2	1:R:585:GLN:H	254.68	0.44
1:Z:287:ARG:NH1	1:Z:615:GLN:O	2.46	0.44
1:B:397:GLU:HB2	1:C:367:PRO:CB	2.47	0.44
1:N:553:THR:HG23	1:N:557:ASN:CB	2.44	0.44
1:C:586:SER:O	1:O:497:ASN:HB2	192.55	0.44
1:G:527:HIS:NE2	1:G:564:GLU:CD	2.71	0.44
1:D:312:LEU:HD13	1:D:683:ILE:HG12	2.00	0.44
1:O:459:LYS:O	1:O:460:ASP:CB	2.66	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:630:HIS:N	1:C:631:PRO:HD3	2.33	0.44
1:L:497:ASN:OD1	1:L:498:ASN:O	2.43	0.44
1:Y:460:ASP:HA	1:O:493:LYS:HE3	2.00	0.44
1:L:312:LEU:HD11	1:L:681:VAL:HG13	2.00	0.44
1:G:626:ASP:HB2	1:4:608:GLN:HA	2.00	0.44
1:O:506:ALA:HA	1:O:537:MET:HE1	1.99	0.44
1:N:265:THR:HG23	1:N:266:GLY:N	2.39	0.44
1:O:622:ILE:HD12	1:O:631:PRO:HB2	2.11	0.44
1:R:629:PHE:O	1:R:630:HIS:C	2.56	0.44
1:N:608:GLN:HA	1:R:626:ASP:HB2	174.30	0.44
1:E:626:ASP:HB2	1:F:608:GLN:HA	1.99	0.44
1:5:629:PHE:O	1:5:630:HIS:C	2.56	0.44
1:A:280:TRP:CE2	1:A:650:LYS:HD2	2.53	0.44
1:O:643:PRO:O	1:O:644:PRO:C	2.66	0.44
1:R:312:LEU:HD12	1:R:313:ASN:N	2.31	0.44
1:I:312:LEU:HD13	1:I:683:ILE:HG12	2.03	0.44
1:T:545:LYS:O	1:T:546:GLU:HB2	2.20	0.44
1:I:252:TYR:CE1	1:I:375:GLN:HB2	2.61	0.44
1:N:599:MET:HE2	1:5:484:TYR:CE1	220.31	0.44
1:H:217:GLY:O	1:H:218:ALA:HB2	2.19	0.44
1:P:324:VAL:HB	1:P:333:ILE:HG23	2.04	0.44
1:1:722:THR:O	1:1:724:PRO:HD3	2.18	0.44
1:F:497:ASN:ND2	1:G:590:ASP:HA	105.24	0.44
1:D:344:PHE:HB3	1:D:401:SER:HB3	2.00	0.44
1:Y:238:ARG:HG2	1:Y:238:ARG:HH11	1.84	0.44
1:1:649:ILE:HG12	1:1:650:LYS:H	1.81	0.44
1:V:310:LYS:HA	1:V:310:LYS:HD2	1.80	0.44
1:F:232:SER:HA	1:F:240:ILE:O	2.18	0.44
1:T:348:GLU:HB2	1:T:350:GLN:NE2	2.42	0.44
1:F:501:PHE:CE2	1:G:449:THR:HG21	98.53	0.43
1:A:519:ASN:CB	1:Q:475:PRO:HA	193.71	0.43
1:A:520:PRO:HD3	1:W:475:PRO:HB3	1.99	0.43
1:C:289:HIS:CD2	1:C:365:PRO:HG3	2.68	0.43
1:Y:486:GLN:O	1:Y:574:THR:HA	2.21	0.43
1:X:520:PRO:CG	1:X:635:MET:HG2	2.49	0.43
1:A:486:GLN:NE2	1:A:539:GLY:N	2.78	0.43
1:H:509:TYR:HB3	1:H:518:ILE:HD11	2.01	0.43
1:Q:472:SER:O	1:U:517:ILE:HG22	125.21	0.43
1:F:438:LEU:N	1:F:438:LEU:HD23	2.32	0.43
1:Y:286:ASN:HD21	1:Y:619:TRP:N	2.15	0.43
1:I:622:ILE:HD12	1:I:631:PRO:HB2	1.99	0.43
1:M:270:ASP:HA	1:M:514:ARG:HB2	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:450:GLN:OE1	1:W:499:SER:HA	187.65	0.43
1:H:493:LYS:HE3	1:2:460:ASP:HA	2.00	0.43
1:A:626:ASP:HB2	1:W:608:GLN:HA	2.00	0.43
1:3:301:ILE:HG12	1:3:729:THR:HA	1.99	0.43
1:G:622:ILE:CD1	1:G:631:PRO:HB2	2.51	0.43
1:Q:626:ASP:OD2	1:Z:423:SER:HB3	90.38	0.43
1:M:384:GLY:C	1:M:386:GLN:H	2.23	0.43
1:X:242:THR:HG23	1:X:682:GLU:HB2	2.00	0.43
1:G:577:PHE:CD1	1:G:599:MET:HG2	2.52	0.43
1:O:419:VAL:HG11	1:O:640:LEU:HD23	2.10	0.43
1:I:580:VAL:HG11	1:V:598:VAL:HG23	137.98	0.43
1:K:440:ASP:HB2	1:T:360:GLN:NE2	2.32	0.43
1:2:289:HIS:CG	1:2:365:PRO:HG3	2.52	0.43
1:L:544:GLY:HA2	1:T:444:TYR:CE1	52.08	0.43
1:Y:649:ILE:HG12	1:Y:650:LYS:N	2.33	0.43
1:1:649:ILE:HG12	1:1:650:LYS:N	2.33	0.43
1:D:427:HIS:HE1	1:W:624:HIS:O	133.99	0.43
1:U:699:VAL:O	1:U:731:TYR:HB3	2.18	0.43
1:H:294:PRO:CB	1:4:697:PRO:HD3	2.48	0.43
1:T:578:GLY:O	1:T:596:VAL:HG12	2.18	0.43
1:M:445:TYR:CD1	1:M:445:TYR:N	2.92	0.43
1:P:310:LYS:HD2	1:P:310:LYS:HA	1.86	0.43
1:E:317:PHE:CD2	1:E:317:PHE:N	2.92	0.43
1:Z:307:PHE:HA	1:Z:686:GLU:O	2.18	0.43
1:M:243:SER:O	1:M:680:SER:HA	2.18	0.43
1:Q:257:TYR:O	1:R:719:GLY:HA2	2.18	0.43
1:X:280:TRP:CE2	1:X:650:LYS:HD2	2.61	0.43
1:4:622:ILE:HD12	1:4:631:PRO:HB2	1.99	0.43
1:H:537:MET:HG3	1:2:446:LEU:HD23	1.98	0.43
1:C:585:GLN:H	1:O:487:GLN:HE22	188.83	0.43
1:I:500:ASN:HA	1:X:449:THR:CG2	2.40	0.43
1:C:405:ARG:H	1:C:408:ASN:ND2	2.15	0.43
1:H:441:GLN:HA	1:3:359:HIS:HA	2.00	0.43
1:M:436:ASN:H	1:T:359:HIS:CE1	149.70	0.43
1:Y:486:GLN:NE2	1:Y:538:SER:H	2.16	0.43
1:E:719:GLY:O	1:I:666:LYS:NZ	114.03	0.43
1:P:438:LEU:HD23	1:P:438:LEU:N	2.33	0.43
1:F:527:HIS:HE2	1:F:564:GLU:CD	2.21	0.43
1:Z:532:ASP:OD1	1:Z:564:GLU:OE2	2.43	0.43
1:A:397:GLU:HB2	1:B:367:PRO:CB	2.48	0.43
1:H:431:LEU:HD23	1:H:431:LEU:O	2.18	0.43
1:2:520:PRO:CG	1:2:635:MET:HG2	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:622:ILE:H	1:C:622:ILE:HG12	1.67	0.43
1:K:450:GLN:OE1	1:T:499:SER:HA	2.18	0.43
1:K:272:HIS:CB	1:K:384:GLY:HA2	2.48	0.43
1:D:626:ASP:OD2	1:U:423:SER:HB3	170.10	0.43
1:O:282:TYR:CE2	1:O:374:PRO:HB2	2.53	0.43
1:I:384:GLY:C	1:I:386:GLN:H	2.20	0.43
1:Z:289:HIS:NE2	1:Z:365:PRO:HG3	2.36	0.43
1:H:287:ARG:HG2	1:H:289:HIS:NE2	2.51	0.43
1:J:693:LYS:HG3	1:W:399:PHE:CE2	2.53	0.43
1:J:440:ASP:HB2	1:W:360:GLN:NE2	2.31	0.43
1:P:693:LYS:HA	1:P:693:LYS:HD3	1.81	0.43
1:J:555:LEU:C	1:J:555:LEU:HD23	2.38	0.43
1:3:555:LEU:C	1:3:555:LEU:HD23	2.38	0.43
1:O:611:ASP:HB2	1:O:730:ARG:NH1	2.33	0.43
1:G:438:LEU:O	1:G:439:ILE:HD13	2.49	0.43
1:H:484:TYR:CD1	1:W:599:MET:CE	132.50	0.43
1:H:484:TYR:CD1	1:H:598:VAL:HG22	2.53	0.43
1:F:722:THR:O	1:F:724:PRO:HD3	2.18	0.43
1:P:227:ASN:HA	1:T:403:MET:HG3	2.00	0.43
1:N:321:VAL:HG11	1:N:339:SER:CB	2.50	0.43
1:Y:599:MET:HE3	1:Y:602:LEU:CD1	2.49	0.43
1:C:484:TYR:CE1	1:R:599:MET:HE2	232.68	0.43
1:6:272:HIS:CB	1:6:384:GLY:HA2	2.48	0.43
1:U:695:TRP:CE2	1:Z:294:PRO:HD2	2.53	0.43
1:S:427:HIS:HE1	1:6:624:HIS:O	2.00	0.43
1:I:697:PRO:HD3	1:W:294:PRO:CB	121.55	0.43
1:X:382:ASN:HD21	1:I:433:ARG:HG3	1.83	0.43
1:C:480:PRO:O	1:C:605:MET:HG2	2.26	0.43
1:H:713:PHE:CZ	1:H:727:ILE:HD11	2.66	0.43
1:I:544:GLY:O	1:I:545:LYS:HB2	2.17	0.43
1:Y:305:TRP:CE3	1:Y:734:ARG:NH2	2.87	0.43
1:4:317:PHE:CD2	1:4:317:PHE:N	2.86	0.43
1:H:317:PHE:N	1:H:317:PHE:CD2	2.86	0.43
1:U:593:THR:HG22	1:U:593:THR:O	2.31	0.43
1:R:310:LYS:HD2	1:R:310:LYS:HA	1.80	0.43
1:S:327:ASN:O	1:S:328:ASP:HB2	2.19	0.43
1:7:536:PRO:HG3	1:7:573:ALA:HB3	1.99	0.43
1:2:468:PRO:O	1:2:471:MET:HG3	2.19	0.43
1:I:243:SER:O	1:I:680:SER:HA	2.17	0.43
1:M:598:VAL:HG23	1:S:580:VAL:HG11	195.93	0.43
1:Q:476:LYS:NZ	1:U:516:SER:HB3	124.84	0.43
1:3:467:SER:OG	1:3:468:PRO:HD2	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:360:GLN:NE2	1:G:440:ASP:HB2	82.64	0.43
1:Y:545:LYS:O	1:Y:547:SER:N	2.43	0.43
1:G:506:ALA:HA	1:G:537:MET:HE1	2.00	0.43
1:X:487:GLN:HE21	1:X:488:ARG:H	1.67	0.43
1:N:405:ARG:N	1:N:408:ASN:HD22	2.02	0.43
1:A:449:THR:CG2	1:J:501:PHE:H	2.29	0.43
1:Z:501:PHE:H	1:O:449:THR:CG2	2.31	0.43
1:I:441:GLN:HA	1:I:359:HIS:HA	2.01	0.43
1:I:475:PRO:HB3	1:I:520:PRO:HD3	2.00	0.43
1:B:442:TYR:CD2	1:V:359:HIS:O	2.71	0.43
1:S:357:SER:HB2	1:S:359:HIS:CD2	2.53	0.43
1:M:519:ASN:CB	1:6:475:PRO:HA	163.13	0.43
1:N:270:ASP:HA	1:N:514:ARG:HB2	1.99	0.43
1:Y:441:GLN:NE2	1:Y:474:GLN:HB3	2.43	0.43
1:S:301:ILE:HG12	1:S:729:THR:HA	2.01	0.43
1:G:245:ARG:NE	1:G:367:PRO:HA	2.33	0.43
1:7:262:SER:O	1:7:265:THR:CG2	2.64	0.43
1:6:397:GLU:HG3	1:7:368:ALA:HB2	2.00	0.43
1:F:272:HIS:CB	1:F:384:GLY:HA2	2.47	0.43
1:A:450:GLN:OE1	1:J:499:SER:HA	2.18	0.43
1:S:497:ASN:OD1	1:S:498:ASN:O	2.37	0.43
1:L:626:ASP:HB2	1:T:608:GLN:HA	89.10	0.43
1:O:383:ASN:O	1:O:384:GLY:O	2.35	0.43
1:E:608:GLN:HE22	1:G:626:ASP:H	86.39	0.43
1:H:622:ILE:H	1:H:622:ILE:HG12	1.70	0.43
1:R:287:ARG:NH1	1:R:615:GLN:O	2.44	0.43
1:H:693:LYS:HG3	1:3:399:PHE:CE2	2.53	0.43
1:2:527:HIS:NE2	1:2:532:ASP:OD1	2.51	0.43
1:F:707:LYS:HD2	1:J:386:GLN:NE2	2.33	0.43
1:I:386:GLN:HE22	1:2:707:LYS:HD2	1.80	0.43
1:W:289:HIS:CD2	1:W:365:PRO:HG3	2.53	0.43
1:D:287:ARG:CD	1:H:442:TYR:CZ	182.71	0.43
1:M:427:HIS:O	1:T:381:LEU:HD11	123.67	0.43
1:L:623:PRO:HB3	1:U:736:LEU:HD22	161.70	0.43
1:V:349:TYR:OH	1:V:643:PRO:O	2.22	0.43
1:O:736:LEU:HD22	1:X:623:PRO:HB3	156.90	0.43
1:A:695:TRP:CE2	1:F:294:PRO:CD	3.02	0.43
1:I:390:ARG:HG3	1:X:699:VAL:HG21	1.98	0.43
1:3:324:VAL:HB	1:3:333:ILE:HG23	2.00	0.43
1:R:720:LEU:O	1:R:722:THR:HG22	2.17	0.43
1:C:384:GLY:O	1:C:386:GLN:N	2.59	0.43
1:G:545:LYS:O	1:G:546:GLU:HB2	2.26	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:253:ASN:O	1:K:254:ASN:C	2.57	0.43
1:N:443:LEU:HD11	1:R:541:MET:HE3	178.13	0.43
1:D:239:VAL:CG1	1:D:685:TRP:HB2	2.49	0.43
1:1:244:THR:HA	1:1:679:VAL:O	2.17	0.43
1:3:218:ALA:HB1	1:4:223:ASN:OD1	2.18	0.43
1:B:280:TRP:CE2	1:B:650:LYS:HD2	2.53	0.43
1:S:326:THR:HG23	1:S:326:THR:O	2.18	0.43
1:G:503:TRP:CD1	1:G:503:TRP:C	2.92	0.43
1:5:218:ALA:HB1	1:6:223:ASN:OD1	2.19	0.43
1:1:717:ASN:ND2	1:1:717:ASN:H	2.15	0.43
1:R:503:TRP:CD1	1:R:503:TRP:C	2.99	0.43
1:H:219:ASP:O	1:H:220:GLY:O	2.43	0.43
1:G:480:PRO:O	1:G:605:MET:HG2	2.30	0.43
1:5:480:PRO:O	1:5:605:MET:HG2	2.18	0.43
1:D:352:PRO:HB3	1:H:429:GLN:NE2	158.38	0.43
1:U:309:PRO:HB2	1:U:416:PHE:CD2	2.57	0.43
1:S:501:PHE:CA	1:S:504:THR:HG22	2.50	0.43
1:B:487:GLN:NE2	1:P:585:GLN:H	211.57	0.43
1:X:501:PHE:HA	1:X:504:THR:CG2	2.48	0.43
1:S:405:ARG:H	1:S:408:ASN:ND2	2.03	0.43
1:F:501:PHE:HE2	1:G:449:THR:OG1	101.59	0.43
1:V:506:ALA:HA	1:V:537:MET:HE1	2.03	0.43
1:U:340:THR:HA	1:U:404:LEU:O	2.18	0.43
1:Q:340:THR:HG22	1:Q:405:ARG:HG2	2.00	0.43
1:4:487:GLN:HE21	1:4:488:ARG:H	1.67	0.43
1:E:501:PHE:CB	1:E:504:THR:HG22	2.48	0.43
1:J:486:GLN:NE2	1:J:538:SER:H	2.23	0.43
1:P:379:LEU:CD1	1:V:437:PRO:HB3	181.70	0.43
1:H:359:HIS:CE1	1:W:436:ASN:H	123.36	0.43
1:G:615:GLN:NE2	1:G:726:PRO:HA	2.33	0.43
1:H:517:ILE:CG2	1:W:473:VAL:HA	136.23	0.43
1:O:270:ASP:HA	1:O:514:ARG:HB2	1.99	0.43
1:Z:527:HIS:HE2	1:Z:564:GLU:CD	2.26	0.43
1:F:509:TYR:CD1	1:F:518:ILE:HD13	2.43	0.43
1:I:431:LEU:HD23	1:I:431:LEU:O	2.38	0.43
1:S:286:ASN:HD21	1:S:619:TRP:N	2.17	0.43
1:F:397:GLU:H	1:F:397:GLU:HG2	1.72	0.43
1:O:498:ASN:O	1:O:499:SER:CB	2.69	0.43
1:A:457:GLN:HB3	1:Z:498:ASN:HD21	171.88	0.43
1:2:459:LYS:O	1:2:460:ASP:CB	2.66	0.43
1:M:493:LYS:HE3	1:S:460:ASP:HA	208.58	0.43
1:A:527:HIS:NE2	1:A:564:GLU:OE2	2.46	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:450:GLN:OE1	1:4:499:SER:HA	143.03	0.43
1:L:487:GLN:NE2	1:U:585:GLN:H	198.37	0.43
1:K:585:GLN:H	1:T:487:GLN:NE2	2.15	0.43
1:Y:313:ASN:HB3	1:Y:682:GLU:HB3	2.01	0.43
1:Y:272:HIS:CB	1:Y:384:GLY:HA2	2.48	0.43
1:Z:289:HIS:CG	1:Z:365:PRO:HG3	2.68	0.43
1:I:626:ASP:OD2	1:X:423:SER:HB3	2.18	0.43
1:H:577:PHE:CD1	1:H:599:MET:HG2	2.61	0.43
1:N:299:ARG:NH1	1:S:690:GLU:OE2	165.47	0.43
1:T:289:HIS:CD2	1:T:365:PRO:HG3	2.54	0.43
1:P:623:PRO:HB3	1:V:736:LEU:HD22	165.77	0.43
1:R:477:ASN:O	1:Y:634:LEU:HB2	120.34	0.43
1:O:649:ILE:HG12	1:O:650:LYS:N	2.42	0.43
1:J:722:THR:O	1:J:724:PRO:HD3	2.23	0.43
1:N:433:ARG:HG3	1:5:382:ASN:HD21	216.26	0.43
1:D:598:VAL:HG23	1:U:580:VAL:HG11	195.85	0.43
1:W:273:TYR:CD1	1:W:273:TYR:C	2.99	0.43
1:K:280:TRP:CE2	1:K:650:LYS:HD2	2.59	0.43
1:3:295:ARG:O	1:3:298:GLN:HB3	2.18	0.43
1:J:227:ASN:HD21	1:N:402:GLN:HG3	171.81	0.43
1:W:309:PRO:HB2	1:W:416:PHE:CD2	2.54	0.43
1:E:340:THR:HA	1:E:404:LEU:O	2.23	0.43
1:5:717:ASN:ND2	1:5:717:ASN:H	2.16	0.43
1:5:445:TYR:CD1	1:5:445:TYR:N	2.86	0.43
1:0:555:LEU:HD23	1:0:555:LEU:O	2.19	0.43
1:V:467:SER:OG	1:V:468:PRO:HD2	2.19	0.43
1:V:398:TYR:OH	1:W:296:ASP:OD1	2.36	0.43
1:H:402:GLN:HG3	1:I:227:ASN:HD21	1.83	0.43
1:5:348:GLU:HB2	1:5:350:GLN:NE2	2.33	0.43
1:G:501:PHE:CA	1:G:504:THR:HG22	2.46	0.43
1:Y:340:THR:HA	1:Y:404:LEU:O	2.20	0.43
1:Y:408:ASN:HD21	1:Z:224:ALA:N	74.52	0.43
1:Y:501:PHE:CA	1:Y:504:THR:HG22	2.48	0.43
1:1:501:PHE:HA	1:1:504:THR:CG2	2.48	0.43
1:B:437:PRO:CG	1:V:379:LEU:HD13	2.48	0.43
1:A:520:PRO:CG	1:A:635:MET:HG2	2.50	0.43
1:D:519:ASN:CB	1:H:475:PRO:HA	189.94	0.43
1:C:270:ASP:HA	1:C:514:ARG:HB2	2.01	0.43
1:I:270:ASP:HA	1:I:514:ARG:HB2	2.00	0.43
1:W:486:GLN:O	1:W:574:THR:HA	2.19	0.43
1:K:368:ALA:HB2	1:O:397:GLU:HG3	2.00	0.43
1:U:366:PHE:HA	1:U:367:PRO:HD3	1.87	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:470:GLY:O	1:L:473:VAL:HG22	2.17	0.43
1:D:366:PHE:HA	1:D:367:PRO:HD3	1.97	0.43
1:X:301:ILE:HG12	1:X:729:THR:HA	2.01	0.43
1:2:509:TYR:HB3	1:2:518:ILE:HD11	2.00	0.43
1:F:386:GLN:NE2	1:G:707:LYS:HD2	2.35	0.43
1:O:499:SER:HA	1:P:450:GLN:OE1	2.19	0.43
1:4:272:HIS:CB	1:4:384:GLY:HA2	2.48	0.43
1:C:599:MET:HE1	1:O:484:TYR:HD1	181.71	0.43
1:J:693:LYS:HA	1:J:693:LYS:HD3	1.94	0.43
1:R:693:LYS:HG3	1:Y:399:PHE:CE2	110.29	0.43
1:O:313:ASN:HB3	1:O:682:GLU:HB3	2.05	0.43
1:D:484:TYR:CE1	1:H:599:MET:HE2	189.78	0.43
1:Q:321:VAL:HG11	1:Q:339:SER:CB	2.49	0.43
1:M:312:LEU:HD12	1:M:313:ASN:N	2.33	0.43
1:D:736:LEU:HD22	1:Q:623:PRO:HB3	205.64	0.43
1:P:321:VAL:HG11	1:P:339:SER:CB	2.47	0.43
1:W:444:TYR:CE2	1:W:465:ARG:HB3	2.53	0.43
1:L:544:GLY:O	1:L:545:LYS:HB2	2.28	0.43
1:Q:317:PHE:CD2	1:Q:317:PHE:N	2.93	0.43
1:Q:480:PRO:O	1:Q:605:MET:HG2	2.26	0.43
1:O:294:PRO:HB2	1:T:697:PRO:HD3	122.00	0.43
1:D:648:LEU:N	1:D:648:LEU:HD22	2.33	0.43
1:A:273:TYR:CD1	1:A:273:TYR:O	2.92	0.43
1:U:717:ASN:H	1:U:717:ASN:ND2	2.17	0.43
1:R:524:MET:HG2	1:R:571:PRO:HG2	2.01	0.43
1:1:389:GLY:HA3	1:2:705:TYR:HA	1.99	0.43
1:J:659:PRO:HB2	1:J:661:GLU:O	2.19	0.43
1:I:244:THR:HA	1:I:679:VAL:O	2.18	0.43
1:Q:305:TRP:CE3	1:Q:734:ARG:NH2	2.88	0.43
1:K:360:GLN:NE2	1:L:440:ASP:HB2	82.64	0.43
1:4:536:PRO:HG3	1:4:573:ALA:HB3	2.00	0.43
1:H:488:ARG:HD2	1:H:534:PHE:CG	2.53	0.43
1:C:585:GLN:H	1:O:487:GLN:NE2	188.19	0.43
1:E:405:ARG:H	1:E:408:ASN:ND2	2.10	0.43
1:Y:487:GLN:NE2	1:Z:585:GLN:H	2.17	0.43
1:5:564:GLU:O	1:5:567:LYS:HG3	2.19	0.43
1:6:405:ARG:H	1:6:408:ASN:ND2	2.06	0.43
1:Q:441:GLN:HA	1:U:359:HIS:HA	108.14	0.43
1:C:520:PRO:CG	1:C:635:MET:HG2	2.47	0.43
1:M:500:ASN:HA	1:S:449:THR:CG2	211.82	0.43
1:S:441:GLN:HA	1:6:359:HIS:HA	2.00	0.43
1:H:486:GLN:O	1:H:574:THR:HA	2.22	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:509:TYR:CD1	1:N:518:ILE:HD13	2.45	0.43
1:A:286:ASN:HD21	1:A:618:ILE:N	2.19	0.43
1:3:441:GLN:HE22	1:3:474:GLN:HB3	1.82	0.43
1:A:622:ILE:HG12	1:A:622:ILE:H	1.66	0.43
1:M:517:ILE:HG22	1:S:472:SER:O	196.63	0.43
1:W:247:TRP:HB2	1:W:373:ILE:HD11	2.01	0.43
1:5:486:GLN:NE2	1:5:538:SER:H	2.14	0.43
1:X:527:HIS:NE2	1:X:564:GLU:OE2	2.49	0.43
1:V:459:LYS:O	1:V:460:ASP:CB	2.68	0.43
1:C:629:PHE:O	1:C:630:HIS:C	2.56	0.43
1:3:498:ASN:O	1:3:499:SER:CB	2.66	0.43
1:S:450:GLN:OE1	1:6:499:SER:HA	2.19	0.43
1:S:426:ALA:O	1:S:733:THR:HA	2.19	0.43
1:B:608:GLN:HA	1:P:626:ASP:HB2	174.34	0.43
1:4:498:ASN:O	1:4:499:SER:CB	2.66	0.43
1:C:297:TRP:CD1	1:C:301:ILE:CD1	3.02	0.43
1:W:693:LYS:HA	1:W:693:LYS:HD3	1.90	0.43
1:A:384:GLY:O	1:A:386:GLN:N	2.60	0.43
1:N:265:THR:O	1:N:267:ALA:N	2.52	0.43
1:2:366:PHE:HA	1:2:367:PRO:HD3	1.89	0.43
1:3:459:LYS:O	1:3:460:ASP:CB	2.65	0.43
1:I:350:GLN:HB3	1:X:693:LYS:HB2	2.00	0.43
1:M:615:GLN:NE2	1:M:726:PRO:HA	2.36	0.43
1:Q:626:ASP:H	1:Z:608:GLN:NE2	93.61	0.43
1:M:265:THR:HG23	1:M:266:GLY:N	2.34	0.43
1:K:622:ILE:HD12	1:K:631:PRO:HB2	2.00	0.43
1:X:313:ASN:HB3	1:X:682:GLU:HB3	2.01	0.43
1:U:643:PRO:O	1:U:644:PRO:C	2.69	0.43
1:O:398:TYR:OH	1:P:296:ASP:OD1	28.44	0.43
1:7:622:ILE:HG12	1:7:622:ILE:H	1.69	0.43
1:C:555:LEU:C	1:C:555:LEU:HD23	2.43	0.43
1:I:484:TYR:CE1	1:X:599:MET:HE2	2.54	0.43
1:3:313:ASN:HB3	1:3:682:GLU:HB3	1.99	0.43
1:S:577:PHE:CD1	1:S:599:MET:HG2	2.53	0.43
1:Q:484:TYR:HD1	1:Z:599:MET:HE1	94.54	0.43
1:3:257:TYR:O	1:4:719:GLY:HA2	2.18	0.43
1:3:272:HIS:CB	1:3:384:GLY:HA2	2.48	0.43
1:D:344:PHE:HB3	1:D:401:SER:CB	2.48	0.43
1:J:219:ASP:O	1:J:220:GLY:O	2.40	0.43
1:A:544:GLY:O	1:A:545:LYS:HB2	2.19	0.43
1:D:243:SER:O	1:D:680:SER:HA	2.19	0.43
1:2:244:THR:HA	1:2:679:VAL:O	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:676:THR:OG1	1:N:655:PRO:HD2	205.76	0.43
1:Q:402:GLN:HG3	1:R:227:ASN:HD21	1.96	0.43
1:M:676:THR:CG2	1:M:677:GLY:N	2.76	0.43
1:Y:310:LYS:HD2	1:Y:310:LYS:HA	1.84	0.43
1:W:648:LEU:N	1:W:648:LEU:HD22	2.42	0.43
1:5:648:LEU:HD22	1:5:648:LEU:N	2.33	0.43
1:H:307:PHE:HA	1:H:686:GLU:O	2.28	0.43
1:T:219:ASP:O	1:T:220:GLY:O	2.48	0.43
1:U:249:LEU:HB3	1:U:675:SER:OG	2.19	0.43
1:K:545:LYS:O	1:K:547:SER:N	2.49	0.43
1:G:243:SER:O	1:G:680:SER:HA	2.25	0.43
1:B:507:SER:HA	1:P:579:THR:O	204.75	0.43
1:B:309:PRO:HB2	1:B:416:PHE:CD2	2.54	0.43
1:W:524:MET:HG2	1:W:571:PRO:HG2	2.01	0.43
1:4:545:LYS:O	1:4:547:SER:N	2.48	0.43
1:H:449:THR:CG2	1:3:501:PHE:H	2.31	0.43
1:W:447:ASN:HB2	1:W:464:SER:OG	2.19	0.43
1:X:501:PHE:HD2	1:1:449:THR:HG21	1.78	0.43
1:O:446:LEU:HD23	1:X:537:MET:HG3	192.91	0.43
1:G:340:THR:HA	1:G:404:LEU:O	2.19	0.43
1:J:270:ASP:HA	1:J:514:ARG:HB2	2.05	0.43
1:D:359:HIS:CE1	1:U:436:ASN:HB3	183.21	0.43
1:Q:517:ILE:HG22	1:Z:472:SER:O	123.59	0.43
1:7:486:GLN:HE22	1:7:538:SER:C	2.21	0.43
1:T:486:GLN:NE2	1:T:538:SER:H	2.17	0.43
1:G:270:ASP:HA	1:G:514:ARG:HB2	2.00	0.43
1:A:622:ILE:HD12	1:A:631:PRO:HB2	2.01	0.43
1:N:437:PRO:HD3	1:R:379:LEU:HD13	187.72	0.43
1:H:437:PRO:HD3	1:3:379:LEU:HD13	2.00	0.43
1:M:438:LEU:HD23	1:M:438:LEU:N	2.37	0.43
1:X:527:HIS:HE2	1:X:564:GLU:CD	2.26	0.43
1:3:395:CYS:SG	1:3:397:GLU:HG2	2.59	0.43
1:A:459:LYS:O	1:A:460:ASP:CB	2.65	0.43
1:C:497:ASN:OD1	1:C:498:ASN:O	2.37	0.43
1:A:626:ASP:H	1:W:608:GLN:HE22	1.67	0.43
1:4:384:GLY:C	1:4:386:GLN:H	2.21	0.43
1:2:322:LYS:O	1:2:673:GLN:HB2	2.18	0.43
1:1:527:HIS:CE1	1:1:532:ASP:OD1	2.71	0.43
1:L:287:ARG:HB3	1:L:290:CYS:SG	2.70	0.43
1:I:272:HIS:CB	1:I:384:GLY:HA2	2.51	0.43
1:X:419:VAL:HG11	1:X:640:LEU:HD23	2.01	0.43
1:O:609:ASP:O	1:O:730:ARG:NH2	2.50	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:312:LEU:HD13	1:F:683:ILE:HG12	2.02	0.43
1:A:484:TYR:CD1	1:W:599:MET:HE2	2.54	0.43
1:I:623:PRO:HB3	1:X:736:LEU:HD22	1.99	0.43
1:H:238:ARG:HG2	1:H:238:ARG:NH1	2.34	0.43
1:5:252:TYR:CE1	1:5:375:GLN:HB2	2.54	0.43
1:D:544:GLY:O	1:D:545:LYS:HB2	2.25	0.43
1:R:344:PHE:HB3	1:R:401:SER:HB3	2.08	0.43
1:B:491:LYS:HG3	1:B:533:LYS:O	2.18	0.43
1:2:566:ILE:HG13	1:2:570:ASN:HB2	2.00	0.43
1:7:243:SER:O	1:7:680:SER:HA	2.19	0.43
1:L:257:TYR:O	1:M:719:GLY:HA2	2.23	0.43
1:L:501:PHE:CE2	1:T:449:THR:HG21	62.72	0.43
1:F:585:GLN:H	1:4:487:GLN:HE22	116.22	0.43
1:S:446:LEU:HD23	1:6:537:MET:HG3	2.00	0.43
1:A:301:ILE:HG12	1:A:729:THR:HA	2.00	0.43
1:A:508:LYS:HA	1:A:518:ILE:H	1.83	0.43
1:D:486:GLN:O	1:D:574:THR:HA	2.30	0.43
1:D:270:ASP:O	1:U:472:SER:HB3	201.11	0.43
1:U:486:GLN:NE2	1:U:539:GLY:N	2.76	0.43
1:B:288:PHE:CZ	1:B:618:ILE:HG23	2.54	0.43
1:M:286:ASN:ND2	1:M:618:ILE:HB	2.44	0.43
1:7:286:ASN:C	1:7:286:ASN:HD22	2.21	0.43
1:7:333:ILE:HG21	1:7:674:TYR:HE1	1.84	0.43
1:J:497:ASN:OD1	1:J:498:ASN:O	2.45	0.43
1:E:313:ASN:HB3	1:E:682:GLU:HB3	2.01	0.43
1:5:431:LEU:HD23	1:5:431:LEU:O	2.19	0.43
1:S:626:ASP:OD2	1:T:423:SER:HB3	38.77	0.43
1:C:599:MET:HE2	1:O:484:TYR:CD1	182.15	0.43
1:G:629:PHE:O	1:G:630:HIS:C	2.56	0.43
1:D:262:SER:OG	1:D:272:HIS:HD2	2.12	0.43
1:1:725:ARG:HB2	1:1:726:PRO:HD2	1.99	0.43
1:D:423:SER:HB3	1:W:626:ASP:OD2	125.89	0.43
1:R:607:TRP:HD1	1:R:608:GLN:O	2.02	0.43
1:X:312:LEU:HD13	1:X:683:ILE:HG12	2.05	0.43
1:H:555:LEU:C	1:H:555:LEU:HD23	2.39	0.43
1:B:529:ASP:H	1:V:512:ASN:HD21	1.67	0.43
1:6:555:LEU:C	1:6:555:LEU:HD23	2.39	0.43
1:B:634:LEU:HD21	1:P:604:GLY:HA3	179.91	0.43
1:E:555:LEU:C	1:E:555:LEU:HD23	2.41	0.43
1:A:580:VAL:HG11	1:J:598:VAL:HG23	2.00	0.43
1:6:426:ALA:O	1:6:733:THR:HA	2.19	0.43
1:F:355:LEU:HD13	1:F:355:LEU:HA	1.94	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:403:MET:HG3	1:Q:227:ASN:HA	2.04	0.43
1:A:217:GLY:O	1:A:218:ALA:HB2	2.19	0.43
1:J:699:VAL:HG21	1:W:390:ARG:HG3	1.99	0.43
1:3:296:ASP:OD1	1:7:398:TYR:OH	2.35	0.43
1:D:254:ASN:O	1:D:255:HIS:HB2	2.24	0.43
1:M:700:GLN:HA	1:M:700:GLN:HE21	1.83	0.43
1:C:238:ARG:HH11	1:C:238:ARG:HG2	1.84	0.43
1:F:317:PHE:N	1:F:317:PHE:CD2	2.87	0.43
1:Y:524:MET:HG2	1:Y:571:PRO:HG2	2.00	0.43
1:2:390:ARG:HG3	1:3:699:VAL:HG21	1.99	0.43
1:A:393:PHE:HB3	1:Q:696:ASN:HD22	185.30	0.43
1:H:393:PHE:CD2	1:I:714:THR:HG22	2.78	0.43
1:T:527:HIS:HE2	1:T:564:GLU:CD	2.18	0.43
1:5:501:PHE:HD2	1:5:501:PHE:N	2.11	0.43
1:A:359:HIS:CE1	1:W:436:ASN:HB3	2.53	0.43
1:H:519:ASN:CB	1:H:520:PRO:CD	3.07	0.43
1:S:520:PRO:CG	1:S:635:MET:HG2	2.47	0.43
1:A:359:HIS:HA	1:W:441:GLN:HA	2.01	0.43
1:C:359:HIS:CE1	1:X:436:ASN:HB3	156.07	0.43
1:J:442:TYR:HD2	1:W:359:HIS:O	2.02	0.43
1:J:230:CYS:HB3	1:N:397:GLU:O	184.09	0.43
1:E:359:HIS:O	1:F:442:TYR:CD2	2.71	0.43
1:O:475:PRO:HA	1:X:519:ASN:CB	175.05	0.43
1:S:508:LYS:CB	1:S:517:ILE:HA	2.44	0.43
1:F:503:TRP:CE2	1:F:508:LYS:HE3	2.55	0.43
1:C:333:ILE:HD12	1:C:333:ILE:H	1.84	0.43
1:S:245:ARG:NE	1:S:367:PRO:HA	2.41	0.43
1:S:363:LEU:HA	1:S:364:PRO:HD3	1.87	0.43
1:Z:622:ILE:CD1	1:Z:631:PRO:HB2	2.60	0.43
1:H:626:ASP:OD2	1:W:423:SER:HB3	118.16	0.43
1:3:366:PHE:HA	1:3:367:PRO:HD3	1.91	0.43
1:G:626:ASP:OD2	1:4:423:SER:HB3	2.19	0.43
1:H:622:ILE:HD12	1:H:631:PRO:HB2	2.00	0.43
1:G:630:HIS:N	1:G:631:PRO:HD3	2.33	0.43
1:Y:626:ASP:HB2	1:Z:608:GLN:HA	2.00	0.43
1:R:427:HIS:HE1	1:Y:624:HIS:O	116.66	0.43
1:B:544:GLY:HA2	1:O:444:TYR:CE1	198.69	0.43
1:I:355:LEU:N	1:I:355:LEU:HD22	2.47	0.43
1:A:227:ASN:ND2	1:E:402:GLN:HG3	2.34	0.43
1:R:599:MET:HE3	1:R:602:LEU:CD1	2.48	0.43
1:P:427:HIS:HA	1:P:734:ARG:O	2.38	0.43
1:M:623:PRO:HB3	1:S:736:LEU:HD22	173.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:341:VAL:HG23	1:P:650:LYS:O	2.39	0.43
1:S:477:ASN:O	1:6:634:LEU:HB2	2.19	0.43
1:4:244:THR:HA	1:4:679:VAL:O	2.19	0.43
1:T:295:ARG:O	1:T:298:GLN:HB3	2.34	0.43
1:7:326:THR:HG23	1:7:326:THR:O	2.19	0.43
1:6:648:LEU:N	1:6:648:LEU:HD22	2.33	0.43
1:E:544:GLY:O	1:E:545:LYS:HB2	2.24	0.43
1:O:219:ASP:O	1:O:220:GLY:O	2.37	0.43
1:S:348:GLU:HB2	1:S:350:GLN:NE2	2.34	0.43
1:S:254:ASN:O	1:S:255:HIS:HB2	2.19	0.43
1:V:244:THR:HA	1:V:679:VAL:O	2.21	0.43
1:N:524:MET:HG2	1:N:571:PRO:HG2	2.00	0.43
1:B:502:THR:HG21	1:P:447:ASN:C	214.60	0.43
1:D:405:ARG:N	1:D:408:ASN:HD22	2.07	0.43
1:K:224:ALA:N	1:O:408:ASN:HD21	2.02	0.43
1:H:340:THR:HG22	1:H:405:ARG:HG2	2.05	0.43
1:I:537:MET:HG3	1:J:446:LEU:HD23	96.79	0.43
1:R:564:GLU:O	1:R:567:LYS:HG3	2.21	0.43
1:R:501:PHE:HD2	1:R:501:PHE:N	2.08	0.43
1:I:436:ASN:H	1:1:359:HIS:CE1	2.36	0.43
1:M:501:PHE:CE2	1:6:449:THR:HG21	183.69	0.43
1:F:366:PHE:HA	1:F:367:PRO:HD3	1.89	0.43
1:Y:666:LYS:NZ	1:Z:719:GLY:O	56.46	0.43
1:P:701:TYR:CE1	1:P:727:ILE:HD13	2.72	0.43
1:7:357:SER:HB2	1:7:359:HIS:CD2	2.54	0.43
1:J:431:LEU:HD23	1:J:431:LEU:O	2.37	0.43
1:2:301:ILE:HG12	1:2:729:THR:HA	2.01	0.43
1:A:630:HIS:N	1:A:631:PRO:HD3	2.34	0.43
1:D:251:THR:HG22	1:D:673:GLN:O	2.18	0.43
1:5:520:PRO:HG2	1:5:635:MET:HG2	2.01	0.43
1:U:397:GLU:O	1:V:230:CYS:HB3	2.18	0.43
1:V:397:GLU:HG3	1:W:368:ALA:HB2	2.01	0.43
1:C:460:ASP:HA	1:O:493:LYS:HE3	171.99	0.43
1:I:693:LYS:HA	1:I:693:LYS:HD3	1.82	0.43
1:1:622:ILE:CD1	1:1:631:PRO:HB2	2.48	0.43
1:1:630:HIS:N	1:1:631:PRO:HD3	2.34	0.43
1:M:540:VAL:HG21	1:M:560:ILE:HG23	2.09	0.43
1:E:270:ASP:HA	1:E:514:ARG:HB2	2.00	0.43
1:K:599:MET:HE1	1:K:602:LEU:HD11	2.12	0.43
1:L:607:TRP:HD1	1:L:608:GLN:O	2.09	0.43
1:2:350:GLN:HB3	1:3:693:LYS:HB2	2.01	0.43
1:C:623:PRO:HB3	1:R:736:LEU:HD22	205.74	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:217:GLY:O	1:L:218:ALA:HB2	2.19	0.43
1:B:722:THR:O	1:B:724:PRO:HD3	2.23	0.43
1:7:444:TYR:CE2	1:7:465:ARG:HB3	2.54	0.43
1:N:666:LYS:NZ	1:O:719:GLY:O	2.52	0.43
1:M:516:SER:HB3	1:6:476:LYS:NZ	171.53	0.43
1:M:294:PRO:CB	1:T:697:PRO:HD3	115.32	0.43
1:C:433:ARG:HG3	1:N:382:ASN:HD21	133.80	0.43
1:Z:305:TRP:CE3	1:Z:734:ARG:NH2	2.93	0.43
1:4:310:LYS:HD2	1:4:310:LYS:HA	1.84	0.43
1:Y:326:THR:HG23	1:Y:326:THR:O	2.19	0.43
1:T:326:THR:O	1:T:326:THR:HG23	2.21	0.43
1:7:503:TRP:C	1:7:503:TRP:CD1	2.91	0.43
1:O:501:PHE:N	1:O:501:PHE:HD2	2.12	0.42
1:I:501:PHE:CE2	1:X:449:THR:HG21	2.53	0.42
1:4:340:THR:HG22	1:4:405:ARG:HG2	2.01	0.42
1:U:402:GLN:HG3	1:V:227:ASN:HD21	1.84	0.42
1:P:357:SER:HB2	1:P:359:HIS:CD2	2.67	0.42
1:I:472:SER:O	1:V:517:ILE:HG22	135.81	0.42
1:L:519:ASN:CB	1:U:475:PRO:HA	172.93	0.42
1:E:333:ILE:HG21	1:E:674:TYR:HE1	1.84	0.42
1:T:470:GLY:O	1:T:473:VAL:HG22	2.18	0.42
1:O:472:SER:O	1:X:517:ILE:HG22	180.87	0.42
1:H:286:ASN:HD22	1:H:286:ASN:C	2.23	0.42
1:S:286:ASN:HD22	1:S:286:ASN:C	2.23	0.42
1:A:431:LEU:O	1:A:431:LEU:HD23	2.19	0.42
1:U:527:HIS:NE2	1:U:562:ASP:OD1	2.54	0.42
1:Q:499:SER:HA	1:Z:450:GLN:OE1	143.07	0.42
1:K:553:THR:HG23	1:K:557:ASN:CB	2.47	0.42
1:H:460:ASP:HA	1:3:493:LYS:HE3	2.00	0.42
1:W:459:LYS:O	1:W:460:ASP:CB	2.67	0.42
1:Z:422:HIS:NE2	1:Z:612:VAL:HG22	2.34	0.42
1:Z:622:ILE:HD12	1:Z:631:PRO:CB	2.61	0.42
1:2:553:THR:HG23	1:2:557:ASN:CB	2.46	0.42
1:A:608:GLN:NE2	1:J:626:ASP:H	2.17	0.42
1:P:625:THR:HB	1:V:607:TRP:O	164.10	0.42
1:I:398:TYR:OH	1:J:296:ASP:OD1	2.34	0.42
1:S:693:LYS:HA	1:S:693:LYS:HD3	1.89	0.42
1:Q:693:LYS:HD3	1:Q:693:LYS:HA	1.84	0.42
1:E:599:MET:HE2	1:N:484:TYR:CD1	218.47	0.42
1:T:268:SER:O	1:T:269:ASN:C	2.63	0.42
1:G:289:HIS:CG	1:G:365:PRO:HG3	2.54	0.42
1:Z:607:TRP:HD1	1:Z:608:GLN:O	2.05	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:7:643:PRO:O	1:7:644:PRO:C	2.56	0.42
1:S:308:ARG:HD3	1:S:419:VAL:O	2.26	0.42
1:E:625:THR:HB	1:F:607:TRP:O	2.19	0.42
1:W:577:PHE:CD1	1:W:599:MET:HG2	2.57	0.42
1:1:287:ARG:HB3	1:1:290:CYS:SG	2.59	0.42
1:J:419:VAL:HG11	1:J:640:LEU:HD23	2.01	0.42
1:Q:599:MET:HE1	1:U:484:TYR:HD1	127.87	0.42
1:5:355:LEU:HD13	1:5:355:LEU:HA	1.86	0.42
1:K:626:ASP:H	1:L:608:GLN:HE22	43.75	0.42
1:E:218:ALA:HB1	1:F:223:ASN:OD1	76.12	0.42
1:3:693:LYS:HA	1:3:693:LYS:HD3	1.83	0.42
1:M:381:LEU:HD11	1:S:427:HIS:O	184.52	0.42
1:C:272:HIS:CB	1:C:384:GLY:HA2	2.54	0.42
1:I:695:TRP:CE2	1:2:294:PRO:HD2	2.54	0.42
1:B:545:LYS:O	1:B:547:SER:N	2.61	0.42
1:U:243:SER:O	1:U:680:SER:HA	2.19	0.42
1:K:516:SER:HB3	1:L:476:LYS:NZ	67.34	0.42
1:B:348:GLU:HB2	1:B:350:GLN:NE2	2.33	0.42
1:W:243:SER:O	1:W:680:SER:HA	2.19	0.42
1:B:711:VAL:HB	1:B:714:THR:HG21	2.00	0.42
1:K:218:ALA:HB1	1:L:223:ASN:OD1	2.19	0.42
1:A:243:SER:O	1:A:680:SER:HA	2.22	0.42
1:5:649:ILE:HG12	1:5:650:LYS:N	2.34	0.42
1:L:541:MET:HE3	1:U:443:LEU:HD11	163.32	0.42
1:F:243:SER:O	1:F:680:SER:HA	2.19	0.42
1:J:601:ALA:HB3	1:W:601:ALA:HB3	2.00	0.42
1:4:309:PRO:HB2	1:4:416:PHE:CD2	2.54	0.42
1:Z:480:PRO:O	1:Z:605:MET:HG2	2.18	0.42
1:R:243:SER:O	1:R:680:SER:HA	2.24	0.42
1:L:317:PHE:N	1:L:317:PHE:CD2	2.95	0.42
1:J:305:TRP:CE3	1:J:734:ARG:NH2	2.87	0.42
1:R:305:TRP:CE3	1:R:734:ARG:NH2	2.92	0.42
1:L:305:TRP:CE3	1:L:734:ARG:NH2	2.92	0.42
1:Z:254:ASN:O	1:Z:255:HIS:HB2	2.31	0.42
1:H:696:ASN:ND2	1:3:393:PHE:HB3	2.34	0.42
1:C:449:THR:CG2	1:N:501:PHE:H	126.86	0.42
1:N:340:THR:HA	1:N:404:LEU:O	2.18	0.42
1:I:696:ASN:N	1:I:696:ASN:ND2	2.71	0.42
1:N:447:ASN:O	1:5:502:THR:HG21	248.11	0.42
1:V:509:TYR:HB3	1:V:518:ILE:HD11	2.02	0.42
1:I:519:ASN:ND2	1:X:475:PRO:HB3	2.34	0.42
1:P:719:GLY:HA2	1:T:257:TYR:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:527:HIS:ND1	1:M:527:HIS:O	2.53	0.42
1:K:486:GLN:HE22	1:K:538:SER:N	2.27	0.42
1:D:486:GLN:NE2	1:D:538:SER:H	2.22	0.42
1:K:357:SER:HB2	1:K:359:HIS:CD2	2.60	0.42
1:F:270:ASP:HA	1:F:514:ARG:HB2	2.06	0.42
1:W:540:VAL:HG21	1:W:560:ILE:HG23	2.00	0.42
1:D:431:LEU:HD23	1:D:431:LEU:O	2.19	0.42
1:J:322:LYS:CE	1:J:335:ASN:ND2	2.80	0.42
1:Q:286:ASN:ND2	1:Q:618:ILE:HB	2.34	0.42
1:N:475:PRO:HA	1:R:519:ASN:CB	187.15	0.42
1:M:270:ASP:O	1:6:472:SER:HB3	178.68	0.42
1:W:366:PHE:HA	1:W:367:PRO:HD3	1.94	0.42
1:D:527:HIS:NE2	1:D:562:ASP:OD1	2.50	0.42
1:3:368:ALA:HB2	1:7:397:GLU:HG3	2.00	0.42
1:Q:312:LEU:HD13	1:Q:683:ILE:HG12	2.02	0.42
1:P:626:ASP:H	1:V:608:GLN:HE22	158.63	0.42
1:T:297:TRP:CD1	1:T:301:ILE:HD11	2.55	0.42
1:N:458:ASN:O	1:N:459:LYS:C	2.57	0.42
1:S:299:ARG:NH1	1:7:690:GLU:OE2	2.52	0.42
1:Y:384:GLY:C	1:Y:386:GLN:H	2.22	0.42
1:T:313:ASN:HB3	1:T:682:GLU:HB3	2.01	0.42
1:M:427:HIS:HE1	1:T:624:HIS:O	115.71	0.42
1:E:578:GLY:C	1:E:596:VAL:HG12	2.40	0.42
1:W:555:LEU:C	1:W:555:LEU:HD23	2.44	0.42
1:O:403:MET:HG3	1:P:227:ASN:HA	60.06	0.42
1:A:697:PRO:HD3	1:F:294:PRO:HB3	2.01	0.42
1:I:341:VAL:HG23	1:I:650:LYS:O	2.51	0.42
1:I:545:LYS:O	1:I:547:SER:N	2.46	0.42
1:C:484:TYR:CD1	1:R:599:MET:HE2	231.93	0.42
1:R:599:MET:HE2	1:Y:484:TYR:CE1	134.06	0.42
1:O:599:MET:HE2	1:X:484:TYR:CE1	186.84	0.42
1:O:649:ILE:HG12	1:O:650:LYS:H	1.94	0.42
1:6:536:PRO:HD2	1:6:540:VAL:HG13	2.01	0.42
1:T:649:ILE:HG12	1:T:650:LYS:N	2.48	0.42
1:W:578:GLY:O	1:W:596:VAL:HG12	2.21	0.42
1:Y:294:PRO:HB2	1:3:697:PRO:HD3	106.35	0.42
1:G:294:PRO:HB2	1:G:697:PRO:HD3	25.32	0.42
1:Y:477:ASN:O	1:7:634:LEU:HB2	123.11	0.42
1:6:717:ASN:ND2	1:6:717:ASN:H	2.16	0.42
1:H:273:TYR:O	1:H:273:TYR:CD1	2.72	0.42
1:K:503:TRP:CD1	1:K:503:TRP:C	2.92	0.42
1:O:273:TYR:CD1	1:O:273:TYR:C	2.93	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:5:219:ASP:O	1:5:220:GLY:O	2.36	0.42
1:L:254:ASN:O	1:L:255:HIS:HB2	2.19	0.42
1:S:344:PHE:HB3	1:S:401:SER:HB3	2.11	0.42
1:5:244:THR:HA	1:5:679:VAL:O	2.18	0.42
1:E:380:THR:HG23	1:E:381:LEU:N	2.34	0.42
1:A:624:HIS:O	1:Q:427:HIS:HE1	173.15	0.42
1:B:249:LEU:HB3	1:B:675:SER:OG	2.19	0.42
1:Q:696:ASN:ND2	1:U:393:PHE:HB3	135.68	0.42
1:O:501:PHE:HE2	1:P:449:THR:OG1	2.02	0.42
1:X:537:MET:HG3	1:1:446:LEU:HD23	2.01	0.42
1:I:487:GLN:HE21	1:I:488:ARG:H	1.84	0.42
1:J:487:GLN:HE22	1:V:585:GLN:H	116.20	0.42
1:Z:500:ASN:HA	1:O:449:THR:CG2	2.37	0.42
1:E:537:MET:HG3	1:F:446:LEU:HD23	2.01	0.42
1:K:501:PHE:HE2	1:L:449:THR:OG1	101.63	0.42
1:I:441:GLN:NE2	1:I:474:GLN:HB3	2.34	0.42
1:Q:359:HIS:HA	1:Z:441:GLN:HA	132.18	0.42
1:R:475:PRO:HA	1:Y:519:ASN:CB	126.68	0.42
1:W:519:ASN:O	1:W:538:SER:O	2.37	0.42
1:A:297:TRP:HE1	1:A:301:ILE:HD11	1.78	0.42
1:K:366:PHE:CE2	1:K:368:ALA:HB3	2.55	0.42
1:P:252:TYR:CZ	1:P:375:GLN:HB2	2.53	0.42
1:Z:364:PRO:CG	1:Z:371:PHE:HB3	2.54	0.42
1:O:270:ASP:HA	1:O:514:ARG:HB2	2.00	0.42
1:K:472:SER:HB3	1:U:270:ASP:O	204.80	0.42
1:S:509:TYR:HB3	1:S:518:ILE:HD11	2.01	0.42
1:X:286:ASN:C	1:X:286:ASN:HD22	2.34	0.42
1:C:397:GLU:O	1:D:230:CYS:HB3	2.33	0.42
1:7:286:ASN:HD21	1:7:618:ILE:N	2.16	0.42
1:F:397:GLU:HG3	1:G:368:ALA:HB2	2.08	0.42
1:Q:540:VAL:HG21	1:Q:560:ILE:HG23	2.00	0.42
1:6:297:TRP:CD1	1:6:301:ILE:CD1	3.02	0.42
1:O:493:LYS:HE3	1:P:460:ASP:HA	2.00	0.42
1:Q:529:ASP:H	1:U:512:ASN:HD21	148.37	0.42
1:X:333:ILE:HG21	1:X:674:TYR:HE1	1.87	0.42
1:B:459:LYS:O	1:B:460:ASP:CB	2.67	0.42
1:I:450:GLN:OE1	1:V:499:SER:HA	153.02	0.42
1:L:498:ASN:HD21	1:U:457:GLN:HB3	207.34	0.42
1:N:459:LYS:O	1:N:460:ASP:CB	2.68	0.42
1:G:312:LEU:HD13	1:G:683:ILE:HG12	2.05	0.42
1:2:262:SER:OG	1:2:272:HIS:HD2	2.02	0.42
1:Q:611:ASP:OD1	1:Q:730:ARG:HG3	2.21	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:252:TYR:CE1	1:R:375:GLN:HB2	2.54	0.42
1:I:312:LEU:HD12	1:I:313:ASN:N	2.35	0.42
1:H:477:ASN:O	1:3:634:LEU:HB2	2.19	0.42
1:U:343:VAL:HA	1:U:648:LEU:O	2.20	0.42
1:Q:598:VAL:HG23	1:Z:580:VAL:HG11	97.65	0.42
1:F:599:MET:HE3	1:F:602:LEU:CD1	2.55	0.42
1:2:444:TYR:CZ	1:2:465:ARG:HB3	2.55	0.42
1:A:257:TYR:O	1:B:719:GLY:HA2	2.28	0.42
1:0:649:ILE:HG12	1:0:650:LYS:N	2.34	0.42
1:C:244:THR:HA	1:C:679:VAL:O	2.19	0.42
1:S:219:ASP:O	1:S:220:GLY:O	2.40	0.42
1:W:314:PHE:HD1	1:W:681:VAL:HG22	1.88	0.42
1:Z:467:SER:OG	1:Z:468:PRO:HD2	2.19	0.42
1:E:507:SER:HA	1:5:579:THR:O	139.49	0.42
1:K:445:TYR:CD1	1:K:445:TYR:N	2.85	0.42
1:4:717:ASN:H	1:4:717:ASN:ND2	2.16	0.42
1:U:326:THR:HG23	1:U:326:THR:O	2.21	0.42
1:G:648:LEU:N	1:G:648:LEU:HD22	2.33	0.42
1:P:700:GLN:HA	1:P:700:GLN:HE21	1.84	0.42
1:Q:700:GLN:HA	1:Q:700:GLN:HE21	1.84	0.42
1:M:327:ASN:O	1:M:328:ASP:HB2	2.20	0.42
1:G:516:SER:HB3	1:4:476:LYS:NZ	2.34	0.42
1:4:257:TYR:O	1:5:719:GLY:HA2	2.19	0.42
1:Q:254:ASN:O	1:Q:255:HIS:HB2	2.34	0.42
1:7:217:GLY:O	1:7:218:ALA:HB2	2.19	0.42
1:M:393:PHE:HB3	1:6:696:ASN:HD22	165.41	0.42
1:X:502:THR:HG21	1:1:447:ASN:C	2.40	0.42
1:C:449:THR:OG1	1:N:501:PHE:CE2	123.68	0.42
1:A:432:ASP:O	1:A:435:MET:CE	2.68	0.42
1:I:474:GLN:O	1:I:476:LYS:HG3	2.20	0.42
1:2:441:GLN:NE2	1:2:474:GLN:HB3	2.34	0.42
1:Y:270:ASP:HA	1:Y:514:ARG:HB2	2.00	0.42
1:E:397:GLU:OE1	1:E:650:LYS:NZ	2.46	0.42
1:J:666:LYS:NZ	1:K:719:GLY:O	224.30	0.42
1:E:379:LEU:HD13	1:F:437:PRO:HD3	2.00	0.42
1:H:517:ILE:HG22	1:2:472:SER:O	2.20	0.42
1:G:486:GLN:NE2	1:G:539:GLY:N	2.70	0.42
1:O:486:GLN:O	1:O:574:THR:HA	2.20	0.42
1:I:431:LEU:HD11	1:I:606:VAL:HG22	2.01	0.42
1:6:517:ILE:HD11	1:6:538:SER:OG	2.19	0.42
1:O:333:ILE:HG21	1:O:674:TYR:HE1	1.90	0.42
1:6:245:ARG:NE	1:6:367:PRO:HA	2.33	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:322:LYS:CE	1:G:335:ASN:ND2	2.79	0.42
1:H:527:HIS:NE2	1:H:562:ASP:OD1	2.52	0.42
1:Q:366:PHE:HA	1:Q:367:PRO:HD3	1.89	0.42
1:S:537:MET:HG3	1:T:446:LEU:HD23	96.57	0.42
1:R:497:ASN:ND2	1:7:590:ASP:HA	2.35	0.42
1:E:599:MET:CE	1:G:484:TYR:CD1	75.09	0.42
1:D:440:ASP:O	1:W:360:GLN:HG3	164.68	0.42
1:O:622:ILE:H	1:O:622:ILE:HG12	1.69	0.42
1:A:312:LEU:HD13	1:A:683:ILE:HG12	2.01	0.42
1:I:599:MET:HE2	1:V:484:TYR:CE1	133.18	0.42
1:W:545:LYS:O	1:W:547:SER:N	2.49	0.42
1:R:484:TYR:CD1	1:7:599:MET:HE2	2.54	0.42
1:M:484:TYR:HD1	1:6:599:MET:HE1	181.45	0.42
1:D:294:PRO:HB2	1:X:697:PRO:HD3	139.28	0.42
1:F:634:LEU:HD21	1:G:604:GLY:HA3	72.32	0.42
1:C:634:LEU:HB2	1:R:477:ASN:O	212.61	0.42
1:L:545:LYS:O	1:L:547:SER:N	2.55	0.42
1:Z:531:LYS:C	1:Z:533:LYS:H	2.22	0.42
1:Y:295:ARG:O	1:Y:298:GLN:HB3	2.20	0.42
1:X:344:PHE:HB3	1:X:401:SER:HB3	2.02	0.42
1:M:238:ARG:HH11	1:M:238:ARG:HG2	1.88	0.42
1:V:700:GLN:HA	1:V:700:GLN:HE21	1.84	0.42
1:A:219:ASP:O	1:A:220:GLY:O	2.41	0.42
1:X:252:TYR:CZ	1:X:375:GLN:HB2	2.56	0.42
1:O:477:ASN:O	1:X:634:LEU:HB2	167.09	0.42
1:W:295:ARG:O	1:W:298:GLN:HB3	2.19	0.42
1:4:720:LEU:O	1:4:722:THR:HG22	2.18	0.42
1:O:501:PHE:CA	1:O:504:THR:HG22	2.49	0.42
1:O:504:THR:CG2	1:O:505:GLY:N	2.82	0.42
1:X:393:PHE:HB3	1:1:696:ASN:ND2	2.35	0.42
1:P:506:ALA:HA	1:P:537:MET:HE1	2.06	0.42
1:E:500:ASN:HA	1:F:449:THR:CG2	2.38	0.42
1:R:288:PHE:CZ	1:R:618:ILE:HG23	2.54	0.42
1:B:436:ASN:H	1:P:359:HIS:CE1	189.72	0.42
1:Z:357:SER:HB2	1:Z:359:HIS:CD2	2.55	0.42
1:P:286:ASN:ND2	1:P:618:ILE:HB	2.33	0.42
1:F:368:ALA:HB2	1:J:397:GLU:HG3	2.01	0.42
1:O:397:GLU:HG3	1:P:368:ALA:HB2	52.41	0.42
1:O:486:GLN:NE2	1:O:539:GLY:N	2.63	0.42
1:O:357:SER:HB2	1:O:359:HIS:CD2	2.54	0.42
1:A:508:LYS:CB	1:A:517:ILE:HA	2.43	0.42
1:A:486:GLN:O	1:A:574:THR:HA	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:286:ASN:HD21	1:X:619:TRP:N	2.09	0.42
1:Y:441:GLN:HA	1:O:359:HIS:HA	2.01	0.42
1:U:363:LEU:HA	1:U:364:PRO:HD3	1.91	0.42
1:2:486:GLN:NE2	1:2:538:SER:H	2.18	0.42
1:2:509:TYR:CD1	1:2:518:ILE:HD13	2.40	0.42
1:E:312:LEU:HD13	1:E:683:ILE:HG12	2.01	0.42
1:S:626:ASP:HB2	1:T:608:GLN:HA	45.10	0.42
1:I:423:SER:HB3	1:V:626:ASP:OD2	118.15	0.42
1:J:622:ILE:CD1	1:J:631:PRO:HB2	2.50	0.42
1:F:460:ASP:HA	1:4:493:LYS:HE3	148.83	0.42
1:Y:285:PHE:CD2	1:Y:681:VAL:HG21	2.54	0.42
1:N:460:ASP:HA	1:5:493:LYS:HE3	262.42	0.42
1:R:643:PRO:O	1:R:644:PRO:C	2.56	0.42
1:R:272:HIS:CB	1:R:384:GLY:HA2	2.50	0.42
1:K:295:ARG:NH1	1:V:690:GLU:OE2	154.61	0.42
1:W:722:THR:O	1:W:724:PRO:HD3	2.28	0.42
1:1:321:VAL:HG11	1:1:339:SER:CB	2.49	0.42
1:W:257:TYR:O	1:X:719:GLY:HA2	2.21	0.42
1:R:484:TYR:CD1	1:7:599:MET:CE	3.02	0.42
1:G:238:ARG:NH1	1:G:238:ARG:HG2	2.43	0.42
1:A:294:PRO:CB	1:F:697:PRO:HD3	2.50	0.42
1:E:440:ASP:HB2	1:N:360:GLN:NE2	214.35	0.42
1:4:649:ILE:HG12	1:4:650:LYS:N	2.34	0.42
1:A:516:SER:HB3	1:Q:476:LYS:NZ	196.21	0.42
1:U:344:PHE:HB3	1:U:401:SER:HB3	2.14	0.42
1:5:446:LEU:HD13	1:5:463:PHE:CE2	2.55	0.42
1:5:652:THR:HG23	1:5:653:PRO:HD2	2.02	0.42
1:M:310:LYS:HD2	1:M:310:LYS:HA	1.84	0.42
1:E:445:TYR:N	1:E:445:TYR:CD1	2.92	0.42
1:Y:440:ASP:HB2	1:O:360:GLN:NE2	2.34	0.42
1:G:711:VAL:HB	1:G:714:THR:HG21	2.02	0.42
1:I:504:THR:CG2	1:I:505:GLY:N	2.83	0.42
1:E:506:ALA:HA	1:E:537:MET:HE1	2.01	0.42
1:J:509:TYR:HB3	1:J:518:ILE:HD11	2.01	0.42
1:J:486:GLN:HE21	1:J:536:PRO:HB3	1.84	0.42
1:V:486:GLN:HE22	1:V:538:SER:C	2.39	0.42
1:J:436:ASN:HB3	1:W:359:HIS:CE1	2.55	0.42
1:Y:359:HIS:CE1	1:Z:436:ASN:HB3	2.55	0.42
1:D:397:GLU:HB2	1:E:367:PRO:CB	2.48	0.42
1:J:397:GLU:HG3	1:K:368:ALA:HB2	205.86	0.42
1:Y:397:GLU:HB2	1:Z:367:PRO:CB	48.04	0.42
1:E:486:GLN:O	1:E:574:THR:HA	2.27	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:520:PRO:CG	1:B:635:MET:HG2	2.48	0.42
1:C:438:LEU:HD23	1:C:438:LEU:N	2.34	0.42
1:E:441:GLN:HE22	1:E:474:GLN:HB3	1.84	0.42
1:S:302:ASN:ND2	1:S:701:TYR:H	2.09	0.42
1:C:333:ILE:HG21	1:C:674:TYR:HE1	1.84	0.42
1:S:366:PHE:HA	1:S:367:PRO:HD3	1.90	0.42
1:J:333:ILE:H	1:J:333:ILE:HD12	1.84	0.42
1:U:658:PRO:HD3	1:V:674:TYR:CD2	2.55	0.42
1:1:553:THR:HG23	1:1:557:ASN:CB	2.44	0.42
1:X:493:LYS:HE3	1:1:460:ASP:HA	2.02	0.42
1:6:459:LYS:O	1:6:460:ASP:CB	2.67	0.42
1:A:626:ASP:H	1:Q:608:GLN:HE22	172.83	0.42
1:W:622:ILE:HG12	1:W:622:ILE:H	1.69	0.42
1:E:497:ASN:HB2	1:F:586:SER:O	2.20	0.42
1:F:629:PHE:O	1:F:630:HIS:C	2.61	0.42
1:C:599:MET:HE2	1:N:484:TYR:CE1	129.77	0.42
1:D:383:ASN:O	1:D:384:GLY:O	2.46	0.42
1:D:693:LYS:HD3	1:D:693:LYS:HA	1.86	0.42
1:C:626:ASP:H	1:X:608:GLN:HE22	156.32	0.42
1:L:262:SER:OG	1:L:272:HIS:HD2	2.08	0.42
1:O:622:ILE:CD1	1:O:631:PRO:HB2	2.56	0.42
1:A:250:PRO:HB3	1:E:658:PRO:HG2	2.00	0.42
1:C:624:HIS:O	1:R:427:HIS:HE1	202.06	0.42
1:E:625:THR:HB	1:5:607:TRP:O	120.70	0.42
1:B:272:HIS:CB	1:B:384:GLY:HA2	2.51	0.42
1:R:252:TYR:OH	1:R:373:ILE:O	2.32	0.42
1:A:223:ASN:OD1	1:E:218:ALA:HB1	2.19	0.42
1:Q:544:GLY:HA2	1:Z:444:TYR:CE1	140.42	0.42
1:B:217:GLY:O	1:B:218:ALA:HB2	2.26	0.42
1:E:444:TYR:CE2	1:E:465:ARG:HB3	2.54	0.42
1:G:344:PHE:HB3	1:G:401:SER:CB	2.49	0.42
1:H:294:PRO:HB2	1:4:697:PRO:HD3	2.00	0.42
1:5:544:GLY:O	1:5:545:LYS:HB2	2.18	0.42
1:5:545:LYS:O	1:5:546:GLU:HB2	2.18	0.42
1:U:252:TYR:CZ	1:U:375:GLN:HB2	2.55	0.42
1:H:452:GLN:NE2	1:H:456:ALA:O	2.57	0.42
1:L:676:THR:CG2	1:L:677:GLY:N	2.81	0.42
1:3:309:PRO:HB2	1:3:416:PHE:CD2	2.54	0.42
1:7:430:SER:HA	1:7:568:ALA:HB1	2.02	0.42
1:U:310:LYS:HD2	1:U:310:LYS:HA	1.88	0.42
1:Y:351:LEU:HD23	1:Y:351:LEU:HA	1.85	0.42
1:A:403:MET:HG3	1:B:227:ASN:HA	2.08	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:344:PHE:HB3	1:Z:401:SER:CB	2.66	0.42
1:B:446:LEU:HA	1:B:463:PHE:CD2	2.61	0.42
1:5:504:THR:CG2	1:5:505:GLY:N	2.83	0.42
1:J:540:VAL:HG21	1:J:560:ILE:HG23	2.00	0.42
1:M:441:GLN:NE2	1:M:474:GLN:HB3	2.37	0.42
1:C:359:HIS:CE1	1:R:436:ASN:HB3	213.08	0.42
1:Y:519:ASN:CB	1:Y:520:PRO:CD	2.95	0.42
1:D:397:GLU:HB2	1:Z:367:PRO:CB	173.01	0.42
1:K:366:PHE:HA	1:K:367:PRO:HD3	1.89	0.42
1:P:363:LEU:HA	1:P:364:PRO:HD3	1.90	0.42
1:7:509:TYR:HB3	1:7:518:ILE:HD11	2.00	0.42
1:C:363:LEU:HA	1:C:364:PRO:HD3	1.95	0.42
1:1:474:GLN:O	1:1:476:LYS:HG3	2.19	0.42
1:E:437:PRO:HD3	1:N:379:LEU:HD13	210.50	0.42
1:E:441:GLN:HA	1:G:359:HIS:HA	63.80	0.42
1:H:472:SER:O	1:3:517:ILE:HG22	2.20	0.42
1:U:270:ASP:HA	1:U:514:ARG:HB2	2.01	0.42
1:M:366:PHE:HA	1:M:367:PRO:HD3	1.92	0.42
1:W:286:ASN:OD1	1:W:619:TRP:O	2.38	0.42
1:U:286:ASN:ND2	1:U:618:ILE:HB	2.34	0.42
1:F:509:TYR:HB3	1:F:518:ILE:HD11	2.05	0.42
1:U:333:ILE:H	1:U:333:ILE:HD12	1.87	0.42
1:3:432:ASP:O	1:3:435:MET:HE3	2.19	0.42
1:N:437:PRO:C	1:N:438:LEU:HD23	2.44	0.42
1:B:431:LEU:HD23	1:B:431:LEU:O	2.20	0.42
1:W:438:LEU:N	1:W:438:LEU:HD23	2.35	0.42
1:X:497:ASN:OD1	1:X:498:ASN:O	2.38	0.42
1:P:564:GLU:O	1:P:567:LYS:HG3	2.24	0.42
1:M:608:GLN:HE22	1:S:626:ASP:H	149.87	0.42
1:B:622:ILE:H	1:B:622:ILE:HG12	1.70	0.42
1:J:297:TRP:CD1	1:J:301:ILE:CD1	3.03	0.42
1:U:557:ASN:HA	1:U:557:ASN:HD22	1.70	0.42
1:E:599:MET:HE1	1:G:484:TYR:HD1	74.49	0.42
1:Z:693:LYS:HA	1:Z:693:LYS:HD3	1.82	0.42
1:F:693:LYS:HD3	1:F:693:LYS:HA	1.86	0.42
1:F:626:ASP:HB2	1:G:608:GLN:HA	45.15	0.42
1:R:622:ILE:CD1	1:R:631:PRO:HB2	2.57	0.42
1:W:355:LEU:HD13	1:W:355:LEU:HA	1.98	0.42
1:F:544:GLY:HA2	1:G:444:TYR:CE1	96.59	0.42
1:6:599:MET:HE3	1:6:602:LEU:CD1	2.50	0.42
1:X:544:GLY:O	1:X:545:LYS:HB2	2.33	0.42
1:S:247:TRP:HB3	1:S:371:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:544:GLY:O	1:S:545:LYS:HB2	2.19	0.42
1:N:427:HIS:HE1	1:R:624:HIS:O	171.54	0.42
1:3:536:PRO:HG3	1:3:573:ALA:HB3	2.01	0.42
1:E:433:ARG:HG3	1:G:382:ASN:HD21	91.65	0.42
1:K:309:PRO:HB2	1:K:416:PHE:CD2	2.54	0.42
1:2:516:SER:HB3	1:3:476:LYS:NZ	2.35	0.42
1:D:445:TYR:N	1:D:445:TYR:CD1	2.88	0.42
1:3:614:LEU:O	1:3:614:LEU:HD12	2.19	0.42
1:H:326:THR:HG23	1:H:326:THR:O	2.29	0.42
1:2:310:LYS:HD2	1:2:310:LYS:HA	1.81	0.42
1:W:326:THR:O	1:W:326:THR:HG23	2.29	0.42
1:4:402:GLN:HG3	1:5:227:ASN:HD21	1.84	0.42
1:C:541:MET:HE3	1:X:443:LEU:HD11	169.65	0.42
1:H:314:PHE:HD1	1:H:681:VAL:HG22	1.87	0.42
1:R:545:LYS:O	1:R:546:GLU:HB2	2.18	0.42
1:H:487:GLN:NE2	1:2:585:GLN:H	2.18	0.42
1:I:696:ASN:ND2	1:V:393:PHE:HB3	122.96	0.42
1:U:340:THR:HG22	1:U:405:ARG:HG2	2.22	0.42
1:I:437:PRO:HB3	1:V:379:LEU:CD1	128.85	0.42
1:H:359:HIS:CE1	1:W:436:ASN:HB3	124.56	0.42
1:Q:519:ASN:HD22	1:Q:520:PRO:CD	2.32	0.42
1:Z:436:ASN:HA	1:Z:437:PRO:HD2	1.92	0.42
1:E:322:LYS:CE	1:E:335:ASN:HD21	2.40	0.42
1:J:364:PRO:CG	1:J:371:PHE:HB3	2.50	0.42
1:0:517:ILE:HD11	1:0:538:SER:OG	2.20	0.42
1:N:286:ASN:ND2	1:N:618:ILE:N	2.63	0.42
1:F:475:PRO:HA	1:4:519:ASN:CB	118.84	0.42
1:G:520:PRO:CG	1:G:635:MET:HG2	2.48	0.42
1:O:436:ASN:HA	1:O:437:PRO:HD2	1.94	0.42
1:O:438:LEU:N	1:O:438:LEU:HD23	2.34	0.42
1:L:527:HIS:NE2	1:L:532:ASP:CG	2.73	0.42
1:X:486:GLN:NE2	1:X:539:GLY:N	2.67	0.42
1:U:286:ASN:HD21	1:U:619:TRP:N	2.12	0.42
1:F:431:LEU:O	1:F:431:LEU:HD23	2.20	0.42
1:H:397:GLU:O	1:I:230:CYS:HB3	2.20	0.42
1:L:333:ILE:H	1:L:333:ILE:HD12	1.85	0.42
1:5:286:ASN:HD21	1:5:618:ILE:H	1.63	0.42
1:T:286:ASN:HD21	1:T:619:TRP:N	2.20	0.42
1:Q:536:PRO:HD2	1:Q:540:VAL:HG13	2.02	0.42
1:H:379:LEU:CD1	1:W:437:PRO:HB3	129.07	0.42
1:Y:557:ASN:HA	1:Y:557:ASN:HD22	1.73	0.42
1:3:527:HIS:NE2	1:3:562:ASP:OD1	2.48	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:622:ILE:CD1	1:X:631:PRO:HB2	2.50	0.42
1:Y:585:GLN:H	1:O:487:GLN:NE2	2.18	0.42
1:A:265:THR:HG23	1:A:266:GLY:N	2.41	0.42
1:W:615:GLN:HE22	1:W:726:PRO:CA	2.31	0.42
1:G:622:ILE:HD12	1:G:631:PRO:HB2	2.03	0.42
1:G:289:HIS:CD2	1:G:365:PRO:HG3	2.54	0.42
1:L:484:TYR:CD1	1:U:599:MET:CE	185.41	0.42
1:T:599:MET:CE	1:T:602:LEU:HD11	2.50	0.42
1:R:386:GLN:NE2	1:S:707:LYS:HD2	2.38	0.42
1:V:313:ASN:HB3	1:V:682:GLU:HB3	2.07	0.42
1:A:299:ARG:NH1	1:O:690:GLU:OE2	159.36	0.42
1:R:626:ASP:OD2	1:7:423:SER:HB3	2.20	0.42
1:P:545:LYS:O	1:P:546:GLU:HB2	2.26	0.42
1:K:444:TYR:CE1	1:T:544:GLY:HA2	2.54	0.42
1:Y:722:THR:O	1:Y:724:PRO:HD3	2.26	0.42
1:S:444:TYR:CE1	1:6:544:GLY:HA2	2.55	0.42
1:2:484:TYR:CD1	1:2:598:VAL:HG22	2.55	0.42
1:E:294:PRO:HB2	1:H:697:PRO:HD3	134.85	0.42
1:Q:649:ILE:HG12	1:Q:650:LYS:N	2.37	0.42
1:A:477:ASN:O	1:Z:634:LEU:HB2	133.98	0.42
1:K:219:ASP:O	1:K:220:GLY:O	2.37	0.42
1:P:218:ALA:HB1	1:Q:223:ASN:OD1	2.21	0.42
1:J:545:LYS:O	1:J:546:GLU:HB2	2.20	0.42
1:W:713:PHE:CZ	1:W:727:ILE:HD11	2.54	0.42
1:V:273:TYR:O	1:V:273:TYR:CD1	2.73	0.42
1:Z:310:LYS:HA	1:Z:310:LYS:HD2	1.81	0.42
1:7:317:PHE:N	1:7:317:PHE:CD2	2.87	0.42
1:1:317:PHE:N	1:1:317:PHE:CD2	2.88	0.42
1:B:676:THR:CG2	1:B:677:GLY:N	2.82	0.42
1:V:545:LYS:O	1:V:546:GLU:HB2	2.24	0.42
1:3:386:GLN:NE2	1:4:707:LYS:HD2	2.34	0.42
1:E:467:SER:OG	1:E:468:PRO:HD2	2.20	0.42
1:A:319:ILE:HG21	1:A:341:VAL:CG1	2.50	0.42
1:1:217:GLY:O	1:1:218:ALA:HB2	2.20	0.42
1:E:446:LEU:HD23	1:N:537:MET:HG3	237.09	0.42
1:1:340:THR:HG22	1:1:405:ARG:HG2	2.02	0.42
1:Z:302:ASN:HD21	1:Z:701:TYR:N	2.08	0.42
1:5:501:PHE:CA	1:5:504:THR:HG22	2.50	0.42
1:V:270:ASP:HA	1:V:514:ARG:HB2	2.01	0.42
1:B:441:GLN:HA	1:V:359:HIS:HA	2.02	0.42
1:Z:517:ILE:HD11	1:Z:538:SER:OG	2.19	0.42
1:2:432:ASP:OD2	1:2:433:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:437:PRO:HD3	1:Q:379:LEU:HD13	217.28	0.42
1:T:257:TYR:O	1:U:719:GLY:HA2	178.71	0.42
1:L:247:TRP:HB3	1:L:371:PHE:CE1	2.55	0.42
1:E:486:GLN:NE2	1:E:538:SER:H	2.18	0.42
1:E:517:ILE:HD11	1:E:538:SER:OG	2.19	0.42
1:E:357:SER:HB2	1:E:359:HIS:CD2	2.55	0.42
1:F:322:LYS:CE	1:F:335:ASN:HD21	2.26	0.42
1:3:557:ASN:HA	1:3:557:ASN:HD22	1.67	0.42
1:V:230:CYS:HA	1:V:242:THR:O	2.19	0.42
1:V:363:LEU:HA	1:V:364:PRO:HD3	2.01	0.42
1:2:517:ILE:HG22	1:3:472:SER:O	2.20	0.42
1:Q:557:ASN:HA	1:Q:557:ASN:HD22	1.74	0.42
1:O:497:ASN:OD1	1:O:498:ASN:O	2.38	0.42
1:H:553:THR:HG23	1:H:557:ASN:CB	2.49	0.42
1:J:498:ASN:HD21	1:V:457:GLN:HB3	147.14	0.42
1:C:622:ILE:CD1	1:C:631:PRO:HB2	2.52	0.42
1:Q:450:GLN:OE1	1:U:499:SER:HA	132.30	0.42
1:4:611:ASP:HB2	1:4:730:ARG:NH1	2.34	0.42
1:1:527:HIS:HE2	1:1:564:GLU:CD	2.23	0.42
1:D:484:TYR:HD1	1:H:599:MET:HE1	189.75	0.42
1:M:384:GLY:O	1:M:386:GLN:N	2.56	0.42
1:I:349:TYR:CE2	1:I:643:PRO:HD2	2.55	0.42
1:7:419:VAL:HG11	1:7:640:LEU:HD23	2.01	0.42
1:Y:442:TYR:CZ	1:0:287:ARG:HD2	2.55	0.42
1:G:446:LEU:HA	1:G:463:PHE:CD2	2.63	0.42
1:D:555:LEU:C	1:D:555:LEU:HD23	2.40	0.42
1:A:555:LEU:C	1:A:555:LEU:HD23	2.43	0.42
1:G:321:VAL:HG11	1:G:339:SER:CB	2.52	0.42
1:W:402:GLN:NE2	1:W:404:LEU:HD21	2.42	0.42
1:5:312:LEU:HD13	1:5:683:ILE:HG12	2.02	0.42
1:2:238:ARG:NH1	1:2:238:ARG:HG2	2.34	0.42
1:C:623:PRO:HB3	1:X:736:LEU:HD22	155.37	0.42
1:A:707:LYS:HD3	1:E:383:ASN:ND2	2.35	0.42
1:K:720:LEU:O	1:K:722:THR:HG22	2.20	0.42
1:X:360:GLN:NE2	1:1:440:ASP:HB2	2.35	0.42
1:2:246:THR:HG23	1:2:678:GLN:NE2	2.34	0.42
1:M:444:TYR:CE1	1:S:544:GLY:HA2	202.59	0.42
1:S:545:LYS:O	1:S:547:SER:N	2.48	0.42
1:S:545:LYS:O	1:S:546:GLU:HB2	2.22	0.42
1:M:545:LYS:O	1:M:547:SER:N	2.51	0.42
1:Q:226:GLY:HA3	1:Q:317:PHE:CD1	2.83	0.42
1:H:344:PHE:HB3	1:H:401:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:578:GLY:O	1:L:596:VAL:HG12	2.18	0.42
1:O:566:ILE:HG13	1:O:570:ASN:HB2	2.06	0.42
1:5:287:ARG:HB3	1:5:290:CYS:SG	2.60	0.42
1:N:290:CYS:HB2	1:N:291:HIS:CD2	2.55	0.42
1:B:389:GLY:HA3	1:C:705:TYR:HA	2.11	0.42
1:6:479:LEU:HA	1:6:480:PRO:HD3	1.91	0.42
1:I:503:TRP:C	1:I:503:TRP:CD1	2.92	0.42
1:M:697:PRO:HD3	1:U:294:PRO:HB2	176.31	0.42
1:N:327:ASN:O	1:N:328:ASP:HB2	2.20	0.42
1:B:480:PRO:O	1:B:605:MET:HG2	2.19	0.42
1:G:445:TYR:CD1	1:G:464:SER:O	2.88	0.42
1:C:501:PHE:N	1:C:501:PHE:HD2	2.13	0.42
1:L:540:VAL:HG21	1:L:560:ILE:HG23	2.02	0.42
1:P:270:ASP:HA	1:P:514:ARG:HB2	2.04	0.42
1:D:437:PRO:HD3	1:W:379:LEU:HD13	162.65	0.42
1:R:438:LEU:HD11	1:Y:277:SER:CB	126.71	0.42
1:W:521:GLY:O	1:W:522:THR:C	2.58	0.42
1:P:364:PRO:CG	1:P:371:PHE:HB3	2.57	0.42
1:M:527:HIS:HE2	1:M:564:GLU:CD	2.19	0.42
1:Y:470:GLY:O	1:Y:473:VAL:HG22	2.20	0.42
1:J:618:ILE:HB	1:J:619:TRP:CE3	2.55	0.42
1:B:527:HIS:ND1	1:B:527:HIS:O	2.52	0.42
1:O:359:HIS:HA	1:P:441:GLN:HA	2.02	0.42
1:U:486:GLN:O	1:U:574:THR:HA	2.19	0.42
1:X:503:TRP:CD1	1:X:503:TRP:C	2.93	0.42
1:Z:527:HIS:NE2	1:Z:532:ASP:OD1	2.63	0.42
1:Z:286:ASN:ND2	1:Z:618:ILE:N	2.60	0.42
1:H:397:GLU:HG3	1:I:368:ALA:HB2	2.08	0.42
1:R:509:TYR:HB3	1:R:518:ILE:HD11	2.03	0.42
1:C:458:ASN:O	1:C:459:LYS:C	2.59	0.42
1:C:460:ASP:HA	1:N:493:LYS:HE3	114.58	0.42
1:S:499:SER:HA	1:T:450:GLN:OE1	100.31	0.42
1:H:608:GLN:HA	1:3:626:ASP:HB2	2.02	0.42
1:Y:459:LYS:O	1:Y:460:ASP:CB	2.72	0.42
1:2:527:HIS:HE2	1:2:564:GLU:CD	2.24	0.42
1:O:484:TYR:CD1	1:P:599:MET:HE2	2.55	0.42
1:T:599:MET:HE1	1:T:602:LEU:HD11	2.01	0.42
1:P:555:LEU:HD23	1:P:555:LEU:C	2.48	0.42
1:N:615:GLN:NE2	1:N:726:PRO:HA	2.40	0.42
1:V:289:HIS:NE2	1:V:365:PRO:HG3	2.35	0.42
1:U:312:LEU:HD11	1:U:681:VAL:HG13	2.01	0.42
1:Z:341:VAL:HG23	1:Z:650:LYS:O	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:5:312:LEU:HD12	1:5:313:ASN:N	2.34	0.42
1:P:383:ASN:O	1:P:384:GLY:O	2.40	0.42
1:3:289:HIS:CG	1:3:365:PRO:HG3	2.54	0.42
1:B:476:LYS:HZ1	1:V:516:SER:HB3	1.84	0.42
1:A:516:SER:HB3	1:W:476:LYS:NZ	2.35	0.42
1:5:217:GLY:O	1:5:218:ALA:HB2	2.20	0.42
1:M:697:PRO:HD3	1:T:294:PRO:CB	134.36	0.42
1:V:344:PHE:HB3	1:V:401:SER:HB3	2.02	0.42
1:4:295:ARG:O	1:4:298:GLN:HB3	2.20	0.42
1:O:545:LYS:O	1:O:547:SER:N	2.47	0.42
1:K:402:GLN:HG3	1:L:227:ASN:HD21	1.85	0.42
1:O:699:VAL:O	1:O:731:TYR:HB3	2.38	0.42
1:W:430:SER:HA	1:W:568:ALA:HB1	2.02	0.42
1:R:717:ASN:H	1:R:717:ASN:ND2	2.18	0.42
1:B:310:LYS:HA	1:B:310:LYS:HD2	1.87	0.42
1:O:310:LYS:HD2	1:O:310:LYS:HA	1.87	0.42
1:Z:614:LEU:O	1:Z:614:LEU:HD12	2.30	0.42
1:Z:351:LEU:HA	1:Z:351:LEU:HD23	1.86	0.42
1:C:351:LEU:HA	1:C:351:LEU:HD23	1.86	0.42
1:N:501:PHE:N	1:N:501:PHE:HD2	2.13	0.41
1:J:446:LEU:HA	1:J:463:PHE:CD2	2.63	0.41
1:C:340:THR:HG22	1:C:405:ARG:HG2	2.01	0.41
1:I:357:SER:HB2	1:I:359:HIS:CD2	2.55	0.41
1:W:509:TYR:HB3	1:W:518:ILE:HD11	2.01	0.41
1:Y:509:TYR:CD1	1:Y:518:ILE:HD13	2.42	0.41
1:D:397:GLU:HG3	1:E:368:ALA:HB2	2.01	0.41
1:J:286:ASN:HD21	1:J:618:ILE:N	2.18	0.41
1:O:441:GLN:HA	1:X:359:HIS:HA	160.41	0.41
1:V:297:TRP:HE1	1:V:301:ILE:HD11	1.80	0.41
1:O:517:ILE:HD11	1:O:538:SER:OG	2.40	0.41
1:M:363:LEU:HA	1:M:364:PRO:HD3	1.93	0.41
1:W:527:HIS:O	1:W:527:HIS:ND1	2.53	0.41
1:W:397:GLU:HB2	1:X:367:PRO:CB	2.49	0.41
1:R:486:GLN:NE2	1:R:538:SER:H	2.20	0.41
1:H:527:HIS:ND1	1:H:527:HIS:O	2.53	0.41
1:K:262:SER:OG	1:K:272:HIS:HD2	2.04	0.41
1:2:423:SER:CB	1:2:425:TYR:CE2	3.03	0.41
1:K:423:SER:HB3	1:T:626:ASP:OD2	2.20	0.41
1:4:262:SER:OG	1:4:272:HIS:HD2	2.04	0.41
1:H:585:GLN:H	1:3:487:GLN:HE22	1.68	0.41
1:T:272:HIS:CB	1:T:384:GLY:HA2	2.52	0.41
1:K:379:LEU:CD1	1:L:437:PRO:HB3	56.32	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:359:HIS:CE1	1:G:436:ASN:HB3	67.36	0.41
1:M:272:HIS:HB3	1:M:384:GLY:HA2	2.01	0.41
1:A:250:PRO:HB3	1:Z:658:PRO:HG2	188.82	0.41
1:O:578:GLY:C	1:O:596:VAL:HG12	2.40	0.41
1:K:555:LEU:HD23	1:K:555:LEU:C	2.41	0.41
1:K:484:TYR:CD1	1:L:599:MET:CE	78.79	0.41
1:T:238:ARG:NH1	1:T:238:ARG:HG2	2.34	0.41
1:A:697:PRO:HD3	1:F:294:PRO:CB	2.50	0.41
1:6:287:ARG:HB3	1:6:290:CYS:SG	2.60	0.41
1:3:247:TRP:HB3	1:3:371:PHE:CE1	2.55	0.41
1:5:312:LEU:HD11	1:5:681:VAL:HG13	2.02	0.41
1:3:317:PHE:N	1:3:317:PHE:CD2	2.88	0.41
1:D:599:MET:HE2	1:W:484:TYR:CD1	142.15	0.41
1:X:484:TYR:CE1	1:1:599:MET:HE2	2.55	0.41
1:J:634:LEU:HB2	1:V:477:ASN:O	104.36	0.41
1:A:720:LEU:O	1:A:722:THR:HG22	2.20	0.41
1:I:695:TRP:CE2	1:W:294:PRO:HD2	120.95	0.41
1:2:649:ILE:HG12	1:2:650:LYS:H	1.85	0.41
1:E:545:LYS:O	1:E:546:GLU:HB2	2.27	0.41
1:4:666:LYS:NZ	1:5:719:GLY:O	2.52	0.41
1:N:545:LYS:O	1:N:547:SER:N	2.53	0.41
1:M:360:GLN:NE2	1:6:440:ASP:HB2	146.08	0.41
1:R:219:ASP:O	1:R:220:GLY:O	2.38	0.41
1:4:239:VAL:CG1	1:4:685:TRP:HB2	2.50	0.41
1:K:614:LEU:O	1:K:614:LEU:HD12	2.19	0.41
1:M:326:THR:O	1:M:326:THR:HG23	2.20	0.41
1:O:717:ASN:H	1:O:717:ASN:ND2	2.16	0.41
1:T:317:PHE:CD2	1:T:317:PHE:N	2.94	0.41
1:I:314:PHE:HB3	1:I:412:PHE:HD1	1.84	0.41
1:H:447:ASN:C	1:3:502:THR:HG21	2.40	0.41
1:M:447:ASN:O	1:S:502:THR:HG21	213.09	0.41
1:P:340:THR:HA	1:P:404:LEU:O	2.21	0.41
1:R:340:THR:HG22	1:R:405:ARG:HG2	2.03	0.41
1:O:501:PHE:HD2	1:O:501:PHE:N	2.08	0.41
1:Z:379:LEU:HD13	1:O:437:PRO:HD3	2.01	0.41
1:E:333:ILE:H	1:E:333:ILE:HD12	1.84	0.41
1:P:302:ASN:ND2	1:P:701:TYR:H	2.07	0.41
1:G:559:MET:SD	1:G:725:ARG:HA	2.72	0.41
1:N:519:ASN:HD22	1:N:520:PRO:CD	2.40	0.41
1:O:441:GLN:NE2	1:O:474:GLN:HB3	2.45	0.41
1:S:268:SER:O	1:S:269:ASN:C	2.58	0.41
1:B:503:TRP:CD1	1:B:503:TRP:C	2.94	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:486:GLN:HE22	1:O:538:SER:N	2.16	0.41
1:B:618:ILE:HB	1:B:619:TRP:CE3	2.55	0.41
1:A:286:ASN:C	1:A:286:ASN:HD22	2.22	0.41
1:R:509:TYR:CD1	1:R:518:ILE:HD13	2.45	0.41
1:M:437:PRO:HD3	1:T:379:LEU:HD13	146.65	0.41
1:U:529:ASP:HB3	1:U:530:ASP:H	1.64	0.41
1:1:497:ASN:OD1	1:1:498:ASN:O	2.38	0.41
1:D:460:ASP:HA	1:Q:493:LYS:HE3	256.81	0.41
1:0:497:ASN:OD1	1:0:498:ASN:O	2.38	0.41
1:3:527:HIS:CD2	1:3:562:ASP:OD2	2.74	0.41
1:1:423:SER:HB3	1:1:626:ASP:OD2	2.19	0.41
1:R:690:GLU:OE2	1:Z:295:ARG:NH1	116.20	0.41
1:T:701:TYR:CE1	1:T:727:ILE:HD13	2.62	0.41
1:J:301:ILE:HG21	1:J:301:ILE:HD13	2.03	0.41
1:U:262:SER:OG	1:U:272:HIS:HD2	2.10	0.41
1:M:693:LYS:HA	1:M:693:LYS:HD3	1.87	0.41
1:Q:262:SER:OG	1:Q:272:HIS:CD2	2.82	0.41
1:Q:272:HIS:CB	1:Q:384:GLY:HA2	2.51	0.41
1:E:348:GLU:HB2	1:E:350:GLN:NE2	2.39	0.41
1:N:446:LEU:HD23	1:R:537:MET:HG3	200.28	0.41
1:F:615:GLN:NE2	1:F:726:PRO:HA	2.35	0.41
1:Q:333:ILE:HD12	1:Q:333:ILE:H	1.84	0.41
1:1:544:GLY:O	1:1:545:LYS:HB2	2.20	0.41
1:Y:623:PRO:HB3	1:Z:736:LEU:HD22	2.02	0.41
1:Q:217:GLY:O	1:Q:218:ALA:HB2	2.20	0.41
1:W:238:ARG:HG2	1:W:238:ARG:NH1	2.34	0.41
1:V:634:LEU:HA	1:V:634:LEU:HD13	1.81	0.41
1:J:590:ASP:HA	1:W:497:ASN:ND2	2.35	0.41
1:Y:294:PRO:CB	1:3:697:PRO:HD3	106.84	0.41
1:R:544:GLY:O	1:R:545:LYS:HB2	2.19	0.41
1:0:217:GLY:O	1:0:218:ALA:HB2	2.20	0.41
1:1:344:PHE:HB3	1:1:401:SER:HB3	2.02	0.41
1:K:586:SER:O	1:T:497:ASN:HB2	2.20	0.41
1:P:348:GLU:HB2	1:P:350:GLN:NE2	2.51	0.41
1:A:317:PHE:CD2	1:A:317:PHE:N	2.88	0.41
1:U:238:ARG:HH11	1:U:238:ARG:HG2	1.84	0.41
1:6:445:TYR:N	1:6:445:TYR:CD1	2.87	0.41
1:3:310:LYS:HA	1:3:310:LYS:HD2	1.81	0.41
1:J:717:ASN:ND2	1:J:717:ASN:H	2.32	0.41
1:L:343:VAL:CG2	1:L:344:PHE:N	2.83	0.41
1:0:290:CYS:HB2	1:0:291:HIS:CD2	2.55	0.41
1:I:502:THR:HG21	1:J:447:ASN:O	91.45	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:520:PRO:CG	1:P:635:MET:HG2	2.50	0.41
1:P:359:HIS:HA	1:V:441:GLN:HA	185.71	0.41
1:D:359:HIS:HA	1:H:441:GLN:HA	183.54	0.41
1:K:475:PRO:HA	1:T:519:ASN:CB	2.44	0.41
1:C:486:GLN:O	1:C:574:THR:HA	2.20	0.41
1:Q:357:SER:HB2	1:Q:359:HIS:CD2	2.65	0.41
1:W:486:GLN:HB3	1:W:486:GLN:HE21	1.67	0.41
1:O:405:ARG:H	1:O:408:ASN:ND2	2.04	0.41
1:E:397:GLU:HG3	1:F:368:ALA:HB2	52.48	0.41
1:Z:373:ILE:HA	1:Z:374:PRO:HD3	1.93	0.41
1:E:527:HIS:HE2	1:E:564:GLU:CD	2.21	0.41
1:K:519:ASN:HD22	1:K:520:PRO:CD	2.33	0.41
1:Z:286:ASN:HD21	1:Z:618:ILE:N	2.17	0.41
1:L:301:ILE:HG12	1:L:729:THR:HA	2.02	0.41
1:Q:397:GLU:HB2	1:R:367:PRO:CB	2.50	0.41
1:E:262:SER:O	1:E:265:THR:CG2	2.62	0.41
1:D:313:ASN:HB3	1:D:682:GLU:HB3	2.04	0.41
1:N:366:PHE:HA	1:N:367:PRO:HD3	1.93	0.41
1:3:297:TRP:CD1	1:3:301:ILE:CD1	3.03	0.41
1:2:498:ASN:O	1:2:499:SER:CB	2.68	0.41
1:C:355:LEU:HA	1:C:355:LEU:HD13	1.96	0.41
1:N:693:LYS:HG3	1:5:399:PHE:CE2	181.05	0.41
1:O:366:PHE:HE2	1:O:368:ALA:HB3	1.83	0.41
1:7:287:ARG:NH1	1:7:615:GLN:O	2.49	0.41
1:A:623:PRO:HB3	1:Q:736:LEU:HD22	177.13	0.41
1:Y:437:PRO:HB3	1:7:379:LEU:CD1	120.79	0.41
1:S:249:LEU:HA	1:S:250:PRO:HD2	1.95	0.41
1:B:599:MET:CE	1:V:484:TYR:CD1	3.03	0.41
1:L:643:PRO:O	1:L:644:PRO:C	2.56	0.41
1:N:736:LEU:HD22	1:R:623:PRO:HB3	173.45	0.41
1:N:295:ARG:O	1:N:298:GLN:HB3	2.20	0.41
1:G:272:HIS:CB	1:G:384:GLY:HA2	2.53	0.41
1:C:484:TYR:CD1	1:C:598:VAL:HG22	2.57	0.41
1:H:272:HIS:CB	1:H:384:GLY:HA2	2.51	0.41
1:B:484:TYR:CD1	1:O:599:MET:HE2	191.46	0.41
1:B:360:GLN:NE2	1:P:440:ASP:HB2	197.20	0.41
1:F:218:ALA:HB1	1:G:223:ASN:OD1	2.28	0.41
1:P:314:PHE:HB3	1:P:412:PHE:HD1	1.85	0.41
1:S:734:ARG:HH11	1:S:734:ARG:HD2	1.75	0.41
1:O:218:ALA:HB1	1:1:223:ASN:OD1	2.19	0.41
1:O:295:ARG:O	1:O:298:GLN:HB3	2.20	0.41
1:X:400:PRO:HA	1:Y:228:TRP:O	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:295:ARG:O	1:R:298:GLN:HB3	2.29	0.41
1:A:440:ASP:HB2	1:J:360:GLN:NE2	2.34	0.41
1:A:659:PRO:HD2	1:B:372:MET:HE1	2.03	0.41
1:5:566:ILE:HG13	1:5:570:ASN:HB2	2.01	0.41
1:Y:427:HIS:HE1	1:0:624:HIS:O	2.04	0.41
1:6:317:PHE:CD2	1:6:317:PHE:N	2.88	0.41
1:L:273:TYR:C	1:L:273:TYR:CD1	3.08	0.41
1:S:717:ASN:H	1:S:717:ASN:ND2	2.24	0.41
1:I:317:PHE:N	1:I:317:PHE:CD2	2.89	0.41
1:7:238:ARG:HG2	1:7:238:ARG:HH11	1.84	0.41
1:V:326:THR:HG23	1:V:326:THR:O	2.23	0.41
1:7:524:MET:HG2	1:7:571:PRO:HG2	2.01	0.41
1:Q:252:TYR:CZ	1:Q:375:GLN:HB2	2.55	0.41
1:3:722:THR:O	1:3:724:PRO:HD3	2.19	0.41
1:H:501:PHE:CB	1:H:504:THR:HG22	2.50	0.41
1:B:506:ALA:HA	1:B:537:MET:HE1	2.21	0.41
1:J:447:ASN:O	1:W:502:THR:HG21	2.20	0.41
1:F:446:LEU:HD23	1:4:537:MET:HG3	127.73	0.41
1:Y:449:THR:CG2	1:0:501:PHE:H	2.32	0.41
1:A:472:SER:O	1:J:517:ILE:HG22	2.21	0.41
1:I:436:ASN:HB3	1:1:359:HIS:CE1	2.55	0.41
1:I:618:ILE:HB	1:I:619:TRP:CE3	2.55	0.41
1:I:287:ARG:HB3	1:I:290:CYS:SG	2.64	0.41
1:Q:379:LEU:CD1	1:Z:437:PRO:HB3	134.85	0.41
1:Y:366:PHE:HA	1:Y:367:PRO:HD3	1.91	0.41
1:L:245:ARG:NE	1:L:367:PRO:HA	2.36	0.41
1:G:357:SER:HB2	1:G:359:HIS:CD2	2.54	0.41
1:1:470:GLY:O	1:1:473:VAL:HG22	2.20	0.41
1:B:486:GLN:O	1:B:574:THR:HA	2.21	0.41
1:0:520:PRO:CG	1:0:635:MET:HG2	2.50	0.41
1:Y:441:GLN:HA	1:7:359:HIS:HA	124.72	0.41
1:Q:289:HIS:NE2	1:Q:365:PRO:HG3	2.35	0.41
1:2:503:TRP:CE2	1:2:508:LYS:HE3	2.55	0.41
1:Q:297:TRP:HE1	1:Q:301:ILE:HD11	2.00	0.41
1:D:379:LEU:HD13	1:H:437:PRO:HD3	170.12	0.41
1:5:272:HIS:CB	1:5:384:GLY:HA2	2.50	0.41
1:K:450:GLN:OE1	1:U:499:SER:HA	233.66	0.41
1:X:268:SER:O	1:X:269:ASN:C	2.56	0.41
1:F:622:ILE:H	1:F:622:ILE:HG12	1.71	0.41
1:D:487:GLN:HE22	1:U:585:GLN:H	203.96	0.41
1:N:272:HIS:CB	1:N:384:GLY:HA2	2.52	0.41
1:D:484:TYR:HD1	1:U:599:MET:HE1	187.97	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:386:GLN:NE2	1:M:707:LYS:HD2	2.36	0.41
1:2:272:HIS:CB	1:2:384:GLY:HA2	2.50	0.41
1:J:289:HIS:CD2	1:J:365:PRO:HG3	2.55	0.41
1:O:640:LEU:HD12	1:O:643:PRO:HA	2.21	0.41
1:I:433:ARG:HG3	1:V:382:ASN:HD21	131.19	0.41
1:T:719:GLY:O	1:X:666:LYS:NZ	193.57	0.41
1:T:403:MET:HG3	1:U:227:ASN:HA	149.36	0.41
1:M:626:ASP:OD2	1:6:423:SER:HB3	166.02	0.41
1:S:607:TRP:HD1	1:S:608:GLN:O	2.03	0.41
1:K:602:LEU:HA	1:K:602:LEU:HD23	1.82	0.41
1:F:227:ASN:HA	1:J:403:MET:HG3	2.03	0.41
1:O:217:GLY:O	1:O:218:ALA:HB2	2.20	0.41
1:7:272:HIS:CB	1:7:384:GLY:HA2	2.50	0.41
1:O:479:LEU:O	1:O:605:MET:HA	2.48	0.41
1:X:381:LEU:HD11	1:1:427:HIS:O	2.21	0.41
1:W:484:TYR:CD1	1:W:598:VAL:HG22	2.55	0.41
1:0:386:GLN:NE2	1:1:707:LYS:HD2	2.35	0.41
1:3:599:MET:HE3	1:3:602:LEU:CD1	2.51	0.41
1:Z:386:GLN:NE2	1:0:707:LYS:HD2	32.33	0.41
1:O:252:TYR:CE1	1:O:375:GLN:HB2	2.67	0.41
1:U:544:GLY:O	1:U:545:LYS:HB2	2.21	0.41
1:4:328:ASP:C	1:4:330:VAL:H	2.24	0.41
1:F:252:TYR:CE1	1:F:375:GLN:HB2	2.55	0.41
1:0:313:ASN:HB3	1:0:682:GLU:HB3	2.02	0.41
1:S:343:VAL:HG22	1:S:344:PHE:N	2.48	0.41
1:P:217:GLY:O	1:P:218:ALA:HB2	2.20	0.41
1:3:243:SER:O	1:3:680:SER:HA	2.20	0.41
1:G:652:THR:HA	1:G:653:PRO:HD2	1.87	0.41
1:A:476:LYS:NZ	1:J:516:SER:HB3	2.35	0.41
1:7:254:ASN:O	1:7:255:HIS:HB2	2.20	0.41
1:K:314:PHE:HB3	1:K:412:PHE:HD1	1.95	0.41
1:3:232:SER:HA	1:3:240:ILE:O	2.20	0.41
1:X:614:LEU:HD12	1:X:614:LEU:O	2.19	0.41
1:M:331:THR:HG23	1:M:331:THR:O	2.39	0.41
1:I:310:LYS:HA	1:I:310:LYS:HD2	1.93	0.41
1:T:700:GLN:HA	1:T:700:GLN:HE21	1.87	0.41
1:Y:273:TYR:O	1:Y:273:TYR:CD1	2.96	0.41
1:K:317:PHE:CD2	1:K:317:PHE:N	3.04	0.41
1:1:285:PHE:CD2	1:1:681:VAL:HG21	2.55	0.41
1:Z:314:PHE:HD1	1:Z:681:VAL:HG22	1.93	0.41
1:1:566:ILE:HG13	1:1:570:ASN:HB2	2.02	0.41
1:C:524:MET:HG2	1:C:571:PRO:HG2	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:491:LYS:HG3	1:M:533:LYS:O	2.32	0.41
1:U:402:GLN:NE2	1:U:404:LEU:HD21	2.35	0.41
1:Y:449:THR:CG2	1:7:500:ASN:HA	150.09	0.41
1:7:527:HIS:CD2	1:7:562:ASP:OD2	2.73	0.41
1:D:520:PRO:CG	1:D:635:MET:HG2	2.50	0.41
1:A:359:HIS:CE1	1:Q:436:ASN:HB3	188.91	0.41
1:C:508:LYS:HA	1:C:518:ILE:H	1.85	0.41
1:J:363:LEU:HA	1:J:364:PRO:HD3	2.03	0.41
1:P:367:PRO:CB	1:T:397:GLU:HB2	2.48	0.41
1:4:486:GLN:NE2	1:4:538:SER:H	2.18	0.41
1:C:245:ARG:NE	1:C:367:PRO:HA	2.39	0.41
1:P:437:PRO:C	1:P:438:LEU:HD23	2.40	0.41
1:S:517:ILE:HG22	1:T:472:SER:O	73.02	0.41
1:T:509:TYR:HB3	1:T:518:ILE:HD11	2.12	0.41
1:T:486:GLN:NE2	1:T:539:GLY:N	2.64	0.41
1:B:540:VAL:HG21	1:B:560:ILE:HG23	2.03	0.41
1:R:363:LEU:HA	1:R:364:PRO:HD3	1.97	0.41
1:V:322:LYS:CE	1:V:335:ASN:ND2	2.81	0.41
1:F:397:GLU:O	1:G:230:CYS:HB3	2.20	0.41
1:V:397:GLU:O	1:W:230:CYS:HB3	2.26	0.41
1:L:379:LEU:HD13	1:U:437:PRO:HD3	162.52	0.41
1:U:527:HIS:HE2	1:U:564:GLU:CD	2.24	0.41
1:E:242:THR:HG23	1:E:682:GLU:HB2	2.02	0.41
1:Y:438:LEU:HD23	1:Y:438:LEU:N	2.42	0.41
1:P:397:GLU:HB2	1:Q:367:PRO:CB	2.56	0.41
1:D:350:GLN:HB3	1:H:693:LYS:HB2	138.12	0.41
1:N:629:PHE:O	1:N:630:HIS:C	2.61	0.41
1:F:357:SER:HB2	1:F:359:HIS:CD2	2.57	0.41
1:H:289:HIS:CG	1:H:365:PRO:HG3	2.56	0.41
1:I:383:ASN:O	1:I:384:GLY:O	2.37	0.41
1:R:384:GLY:C	1:R:386:GLN:H	2.24	0.41
1:N:585:GLN:H	1:R:487:GLN:NE2	203.26	0.41
1:G:333:ILE:H	1:G:333:ILE:HD12	1.89	0.41
1:N:423:SER:HB3	1:5:626:ASP:OD2	179.52	0.41
1:1:419:VAL:HG11	1:1:640:LEU:HD23	2.03	0.41
1:H:435:MET:HE2	1:H:471:MET:HB3	2.02	0.41
1:X:257:TYR:O	1:Y:719:GLY:HA2	2.21	0.41
1:T:432:ASP:O	1:T:435:MET:HE3	2.24	0.41
1:6:355:LEU:HD13	1:6:355:LEU:HA	1.86	0.41
1:7:247:TRP:HB2	1:7:373:ILE:HD11	2.02	0.41
1:6:543:PHE:O	1:6:544:GLY:O	2.39	0.41
1:L:545:LYS:O	1:L:546:GLU:HB2	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:722:THR:O	1:G:724:PRO:HD3	2.23	0.41
1:D:598:VAL:HG23	1:H:580:VAL:HG11	199.75	0.41
1:C:230:CYS:HA	1:C:242:THR:O	2.21	0.41
1:Z:454:GLY:C	1:Z:456:ALA:H	2.38	0.41
1:N:455:SER:O	1:N:456:ALA:HB3	2.21	0.41
1:N:697:PRO:HD3	1:S:294:PRO:HB2	181.38	0.41
1:B:294:PRO:CB	1:W:697:PRO:HD3	2.50	0.41
1:R:314:PHE:HD1	1:R:681:VAL:HG22	1.92	0.41
1:Y:717:ASN:H	1:Y:717:ASN:ND2	2.25	0.41
1:X:711:VAL:HB	1:X:714:THR:HG21	2.20	0.41
1:O:243:SER:O	1:O:680:SER:HA	2.28	0.41
1:F:314:PHE:HB3	1:F:412:PHE:HD1	1.87	0.41
1:F:699:VAL:O	1:F:731:TYR:HB3	2.21	0.41
1:H:393:PHE:HB3	1:W:696:ASN:ND2	122.97	0.41
1:Q:696:ASN:ND2	1:U:393:PHE:N	133.51	0.41
1:C:449:THR:HG21	1:N:501:PHE:CE2	124.80	0.41
1:R:585:GLN:H	1:Y:487:GLN:NE2	144.29	0.41
1:4:405:ARG:H	1:4:408:ASN:ND2	2.08	0.41
1:F:585:GLN:H	1:4:487:GLN:NE2	116.73	0.41
1:Y:447:ASN:C	1:7:502:THR:HG21	143.46	0.41
1:7:501:PHE:CA	1:7:504:THR:HG22	2.51	0.41
1:O:438:LEU:O	1:O:439:ILE:HD13	2.21	0.41
1:B:437:PRO:HG3	1:V:379:LEU:HD13	2.01	0.41
1:P:619:TRP:CD1	1:P:619:TRP:C	2.93	0.41
1:I:486:GLN:HE21	1:I:486:GLN:HB3	1.71	0.41
1:J:432:ASP:O	1:J:435:MET:CE	2.75	0.41
1:Q:359:HIS:CE1	1:Z:436:ASN:H	129.96	0.41
1:F:441:GLN:NE2	1:F:474:GLN:HB3	2.36	0.41
1:E:475:PRO:HB3	1:G:520:PRO:HD3	59.69	0.41
1:O:519:ASN:CB	1:O:520:PRO:CD	3.02	0.41
1:B:333:ILE:HG21	1:B:674:TYR:HE1	1.85	0.41
1:L:395:CYS:SG	1:L:397:GLU:HG2	2.61	0.41
1:B:286:ASN:ND2	1:B:618:ILE:N	2.56	0.41
1:K:322:LYS:CE	1:K:335:ASN:HD21	2.33	0.41
1:R:333:ILE:HG21	1:R:674:TYR:HE1	1.85	0.41
1:O:301:ILE:CD1	1:O:728:GLY:O	2.68	0.41
1:H:536:PRO:HD2	1:H:540:VAL:HG13	2.02	0.41
1:E:285:PHE:CD2	1:E:681:VAL:HG21	2.55	0.41
1:V:629:PHE:O	1:V:630:HIS:C	2.58	0.41
1:Y:312:LEU:HD13	1:Y:683:ILE:HG12	2.03	0.41
1:U:693:LYS:HA	1:U:693:LYS:HD3	1.81	0.41
1:A:537:MET:HG3	1:Q:446:LEU:HD23	208.37	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:599:MET:HE3	1:P:602:LEU:CD1	2.50	0.41
1:M:379:LEU:CD1	1:S:437:PRO:HB3	191.33	0.41
1:G:419:VAL:HG11	1:G:640:LEU:HD23	2.03	0.41
1:M:383:ASN:O	1:M:384:GLY:O	2.38	0.41
1:H:446:LEU:HA	1:H:463:PHE:CD2	2.63	0.41
1:Y:426:ALA:O	1:Y:733:THR:HA	2.24	0.41
1:H:419:VAL:HG11	1:H:640:LEU:HD23	2.06	0.41
1:Y:289:HIS:CG	1:Y:365:PRO:HG3	2.56	0.41
1:P:382:ASN:HD21	1:V:433:ARG:HG3	183.10	0.41
1:L:577:PHE:CD1	1:L:599:MET:HG2	2.56	0.41
1:R:249:LEU:HD12	1:R:250:PRO:HD2	2.02	0.41
1:S:599:MET:HE2	1:6:484:TYR:CD1	2.56	0.41
1:D:294:PRO:HB2	1:R:697:PRO:HD3	208.84	0.41
1:Z:402:GLN:HG3	1:0:227:ASN:ND2	58.45	0.41
1:5:239:VAL:HG12	1:5:685:TRP:HB2	2.02	0.41
1:Y:344:PHE:HB3	1:Y:401:SER:HB3	2.02	0.41
1:R:545:LYS:O	1:R:547:SER:N	2.49	0.41
1:H:344:PHE:HB3	1:H:401:SER:CB	2.50	0.41
1:W:219:ASP:O	1:W:220:GLY:O	2.39	0.41
1:Z:655:PRO:HB3	1:Z:667:PHE:CE1	2.64	0.41
1:P:326:THR:O	1:P:326:THR:HG23	2.20	0.41
1:W:310:LYS:HA	1:W:310:LYS:HD2	1.85	0.41
1:N:634:LEU:HD13	1:N:634:LEU:HA	1.79	0.41
1:P:445:TYR:CD1	1:P:445:TYR:N	2.92	0.41
1:M:402:GLN:HG3	1:N:227:ASN:HD21	1.85	0.41
1:0:239:VAL:CG1	1:0:685:TRP:HB2	2.51	0.41
1:Q:652:THR:HG23	1:Q:653:PRO:HD2	2.01	0.41
1:A:705:TYR:HA	1:E:389:GLY:HA3	2.03	0.41
1:P:340:THR:HG22	1:P:405:ARG:HG2	2.03	0.41
1:W:501:PHE:CA	1:W:504:THR:HG22	2.50	0.41
1:V:501:PHE:HA	1:V:504:THR:CG2	2.46	0.41
1:A:340:THR:HG22	1:A:405:ARG:HG2	2.02	0.41
1:M:475:PRO:HA	1:S:519:ASN:CB	189.90	0.41
1:W:287:ARG:HG3	1:W:616:GLY:O	2.20	0.41
1:7:486:GLN:O	1:7:574:THR:HA	2.21	0.41
1:S:529:ASP:HB3	1:S:530:ASP:H	1.64	0.41
1:4:520:PRO:CG	1:4:635:MET:HG2	2.50	0.41
1:F:442:TYR:CZ	1:4:287:ARG:CD	126.11	0.41
1:X:357:SER:HB2	1:X:359:HIS:CD2	2.63	0.41
1:V:286:ASN:HD22	1:V:286:ASN:C	2.26	0.41
1:G:397:GLU:HB2	1:H:367:PRO:CB	2.51	0.41
1:Y:322:LYS:CE	1:Y:335:ASN:ND2	2.80	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:431:LEU:HD23	1:O:431:LEU:O	2.31	0.41
1:S:363:LEU:N	1:S:363:LEU:CD1	2.91	0.41
1:O:286:ASN:HD21	1:O:618:ILE:H	1.67	0.41
1:Q:397:GLU:O	1:R:230:CYS:HB3	2.21	0.41
1:R:245:ARG:NE	1:R:367:PRO:HA	2.36	0.41
1:4:286:ASN:HD21	1:4:618:ILE:N	2.17	0.41
1:M:322:LYS:CE	1:M:335:ASN:ND2	2.79	0.41
1:E:590:ASP:HA	1:N:497:ASN:ND2	256.55	0.41
1:E:450:GLN:OE1	1:N:499:SER:HA	259.93	0.41
1:P:497:ASN:OD1	1:P:498:ASN:O	2.42	0.41
1:V:458:ASN:O	1:V:459:LYS:C	2.63	0.41
1:Z:497:ASN:OD1	1:Z:498:ASN:O	2.39	0.41
1:D:626:ASP:HB2	1:H:608:GLN:HA	151.33	0.41
1:P:397:GLU:O	1:Q:230:CYS:HB3	2.20	0.41
1:U:553:THR:HG23	1:U:557:ASN:CB	2.47	0.41
1:G:622:ILE:H	1:G:622:ILE:HG12	1.66	0.41
1:H:599:MET:HE3	1:H:602:LEU:CD1	2.53	0.41
1:Q:629:PHE:O	1:Q:630:HIS:C	2.59	0.41
1:2:313:ASN:HB3	1:2:682:GLU:HB3	2.02	0.41
1:Y:349:TYR:OH	1:Y:643:PRO:O	2.28	0.41
1:J:312:LEU:HD11	1:J:681:VAL:HG13	2.09	0.41
1:S:217:GLY:O	1:S:218:ALA:HB2	2.20	0.41
1:T:544:GLY:O	1:T:545:LYS:HB2	2.21	0.41
1:O:580:VAL:HG11	1:X:598:VAL:HG23	193.42	0.41
1:R:217:GLY:O	1:R:218:ALA:HB2	2.20	0.41
1:A:238:ARG:NH1	1:A:238:ARG:HG2	2.36	0.41
1:K:497:ASN:OD1	1:K:498:ASN:O	2.56	0.41
1:H:697:PRO:HD3	1:4:294:PRO:CB	2.51	0.41
1:T:341:VAL:HG23	1:T:650:LYS:O	2.24	0.41
1:5:545:LYS:O	1:5:547:SER:N	2.46	0.41
1:C:294:PRO:HD2	1:O:695:TRP:CE2	156.31	0.41
1:Y:427:HIS:HE1	1:7:624:HIS:O	111.49	0.41
1:O:348:GLU:HB2	1:O:350:GLN:NE2	2.47	0.41
1:I:343:VAL:HG22	1:I:344:PHE:N	2.36	0.41
1:A:471:MET:CE	1:J:273:TYR:CD2	3.03	0.41
1:Q:314:PHE:HB3	1:Q:412:PHE:HD1	1.86	0.41
1:B:655:PRO:HG3	1:C:370:VAL:HG11	2.03	0.41
1:7:545:LYS:O	1:7:547:SER:N	2.46	0.41
1:Q:310:LYS:HA	1:Q:310:LYS:HD2	1.93	0.41
1:U:219:ASP:O	1:U:220:GLY:O	2.38	0.41
1:E:476:LYS:NZ	1:N:516:SER:HB3	220.47	0.41
1:F:440:ASP:HB2	1:4:360:GLN:NE2	143.26	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:502:THR:HG21	1:H:447:ASN:O	213.24	0.41
1:L:501:PHE:CA	1:L:504:THR:HG22	2.50	0.41
1:R:696:ASN:N	1:R:696:ASN:ND2	2.73	0.41
1:C:449:THR:OG1	1:O:501:PHE:HE2	182.67	0.41
1:O:487:GLN:HE21	1:O:488:ARG:H	1.84	0.41
1:J:447:ASN:C	1:W:502:THR:HG21	2.41	0.41
1:W:487:GLN:HE21	1:W:488:ARG:H	1.78	0.41
1:Q:487:GLN:NE2	1:Z:585:GLN:H	116.91	0.41
1:A:441:GLN:NE2	1:A:474:GLN:HB3	2.36	0.41
1:V:519:ASN:HD22	1:V:520:PRO:CD	2.34	0.41
1:K:397:GLU:HG3	1:L:368:ALA:HB2	2.11	0.41
1:O:441:GLN:HE22	1:O:474:GLN:HB3	1.95	0.41
1:A:517:ILE:HD11	1:A:538:SER:OG	2.36	0.41
1:S:272:HIS:CB	1:S:384:GLY:HA2	2.55	0.41
1:H:363:LEU:N	1:H:363:LEU:CD1	2.84	0.41
1:C:527:HIS:O	1:C:527:HIS:ND1	2.53	0.41
1:F:486:GLN:HE22	1:F:538:SER:N	2.15	0.41
1:A:286:ASN:ND2	1:A:618:ILE:N	2.63	0.41
1:J:333:ILE:HG21	1:J:674:TYR:HE1	1.86	0.41
1:J:527:HIS:NE2	1:J:532:ASP:CG	2.97	0.41
1:2:359:HIS:CE1	1:3:436:ASN:HB3	2.55	0.41
1:R:379:LEU:HD13	1:7:437:PRO:HD3	2.03	0.41
1:V:366:PHE:HA	1:V:367:PRO:HD3	1.96	0.41
1:K:437:PRO:HB3	1:U:379:LEU:CD1	192.62	0.41
1:D:297:TRP:CD1	1:D:301:ILE:CD1	3.04	0.41
1:V:622:ILE:HG12	1:V:622:ILE:H	1.70	0.41
1:U:265:THR:HG23	1:U:266:GLY:N	2.36	0.41
1:6:693:LYS:HA	1:6:693:LYS:HD3	1.77	0.41
1:Y:312:LEU:HD11	1:Y:681:VAL:HG13	2.02	0.41
1:H:350:GLN:HB3	1:2:693:LYS:HB2	2.02	0.41
1:7:458:ASN:O	1:7:459:LYS:C	2.59	0.41
1:T:265:THR:O	1:T:267:ALA:N	2.62	0.41
1:2:626:ASP:OD2	1:3:423:SER:HB3	2.20	0.41
1:I:626:ASP:H	1:X:608:GLN:HE22	1.68	0.41
1:D:484:TYR:CD1	1:H:599:MET:CE	189.42	0.41
1:C:313:ASN:HB3	1:C:682:GLU:HB3	2.03	0.41
1:N:446:LEU:HD23	1:5:537:MET:HG3	243.88	0.41
1:B:419:VAL:HG11	1:B:640:LEU:HD23	2.02	0.41
1:M:289:HIS:CG	1:M:365:PRO:HG3	2.61	0.41
1:F:299:ARG:NH1	1:5:690:GLU:OE2	113.15	0.41
1:H:484:TYR:HD1	1:W:599:MET:HE1	132.19	0.41
1:S:623:PRO:HB3	1:T:736:LEU:HD22	49.80	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:599:MET:HE3	1:Q:602:LEU:CD1	2.51	0.41
1:M:599:MET:HE3	1:M:602:LEU:HD11	2.13	0.41
1:K:289:HIS:CD2	1:K:365:PRO:HG3	2.70	0.41
1:D:360:GLN:NE2	1:H:440:ASP:HB2	189.69	0.41
1:Q:484:TYR:CD1	1:Z:599:MET:CE	95.63	0.41
1:O:599:MET:HE3	1:O:602:LEU:CD1	2.51	0.41
1:L:238:ARG:HG2	1:L:238:ARG:NH1	2.43	0.41
1:N:580:VAL:HG11	1:5:598:VAL:HG23	229.01	0.41
1:E:384:GLY:C	1:E:386:GLN:H	2.24	0.41
1:E:524:MET:HB2	1:E:573:ALA:HB2	2.03	0.41
1:T:444:TYR:CE2	1:T:465:ARG:HB3	2.55	0.41
1:X:722:THR:O	1:X:724:PRO:HD3	2.25	0.41
1:G:217:GLY:O	1:G:218:ALA:HB2	2.21	0.41
1:Z:217:GLY:O	1:Z:218:ALA:HB2	2.20	0.41
1:U:309:PRO:HB2	1:U:416:PHE:CE2	2.67	0.41
1:K:217:GLY:O	1:K:218:ALA:HB2	2.20	0.41
1:N:634:LEU:HA	1:N:634:LEU:HD12	1.86	0.41
1:V:219:ASP:O	1:V:220:GLY:O	2.40	0.41
1:A:497:ASN:HB2	1:Q:586:SER:O	222.43	0.41
1:D:309:PRO:HB2	1:D:416:PHE:CD2	2.59	0.41
1:F:700:GLN:HA	1:F:700:GLN:HE21	1.89	0.41
1:A:503:TRP:C	1:A:503:TRP:CD1	2.94	0.41
1:N:310:LYS:HA	1:N:310:LYS:HD2	1.79	0.41
1:F:445:TYR:CD1	1:F:445:TYR:N	2.88	0.41
1:N:614:LEU:O	1:N:614:LEU:HD12	2.32	0.41
1:5:363:LEU:N	1:5:363:LEU:CD1	2.84	0.41
1:3:254:ASN:O	1:3:255:HIS:HB2	2.21	0.41
1:1:491:LYS:HG3	1:1:533:LYS:O	2.20	0.41
1:L:452:GLN:NE2	1:L:456:ALA:O	2.50	0.41
1:U:327:ASN:O	1:U:328:ASP:HB2	2.27	0.41
1:O:309:PRO:HB2	1:O:416:PHE:CD2	2.62	0.41
1:S:541:MET:HE3	1:T:443:LEU:HD11	87.83	0.41
1:S:447:ASN:HB2	1:S:464:SER:OG	2.20	0.41
1:B:501:PHE:CB	1:B:504:THR:HG22	2.60	0.41
1:B:501:PHE:CE2	1:O:449:THR:HG21	218.51	0.41
1:O:537:MET:HE2	1:O:537:MET:HB3	1.69	0.41
1:O:340:THR:HG22	1:O:405:ARG:HG2	2.08	0.41
1:K:393:PHE:HB3	1:L:696:ASN:ND2	32.63	0.41
1:Y:501:PHE:CE2	1:Z:449:THR:HG21	2.56	0.41
1:E:500:ASN:HA	1:5:449:THR:CG2	146.49	0.41
1:1:270:ASP:HA	1:1:514:ARG:HB2	2.02	0.41
1:P:519:ASN:O	1:P:538:SER:O	2.39	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:357:SER:HB2	1:H:359:HIS:CD2	2.56	0.41
1:U:357:SER:HB2	1:U:359:HIS:CD2	2.55	0.41
1:M:537:MET:HG3	1:S:446:LEU:HD23	200.26	0.41
1:T:363:LEU:HA	1:T:364:PRO:HD3	1.97	0.41
1:F:363:LEU:HA	1:F:364:PRO:HD3	1.96	0.41
1:O:367:PRO:HB2	1:S:397:GLU:HB2	103.98	0.41
1:F:520:PRO:HD3	1:G:475:PRO:HB3	79.65	0.41
1:E:287:ARG:HG2	1:E:289:HIS:NE2	2.52	0.41
1:C:436:ASN:HA	1:C:437:PRO:HD2	1.91	0.41
1:C:441:GLN:HA	1:O:359:HIS:HA	147.03	0.41
1:N:509:TYR:HB3	1:N:518:ILE:HD11	2.07	0.41
1:L:288:PHE:CZ	1:L:618:ILE:HG23	2.56	0.41
1:W:288:PHE:CZ	1:W:618:ILE:HG23	2.56	0.41
1:O:529:ASP:HB3	1:O:530:ASP:H	1.66	0.41
1:S:286:ASN:ND2	1:S:618:ILE:HB	2.36	0.41
1:Y:432:ASP:O	1:Y:435:MET:HE3	2.21	0.41
1:I:245:ARG:NE	1:I:367:PRO:HA	2.36	0.41
1:X:366:PHE:HA	1:X:367:PRO:HD3	1.93	0.41
1:S:230:CYS:HA	1:S:242:THR:O	2.21	0.41
1:O:286:ASN:HD21	1:O:619:TRP:N	2.09	0.41
1:Q:397:GLU:HG3	1:R:368:ALA:HB2	2.07	0.41
1:U:322:LYS:CE	1:U:335:ASN:ND2	2.77	0.41
1:Y:630:HIS:O	1:Y:632:SER:N	2.57	0.41
1:G:364:PRO:HG3	1:G:371:PHE:HB3	2.01	0.41
1:D:540:VAL:HG21	1:D:560:ILE:HG23	2.10	0.41
1:F:397:GLU:HB2	1:G:367:PRO:CB	2.57	0.41
1:7:322:LYS:CE	1:7:335:ASN:ND2	2.79	0.41
1:O:322:LYS:CE	1:O:335:ASN:ND2	2.98	0.41
1:A:322:LYS:CE	1:A:335:ASN:ND2	2.81	0.41
1:Z:333:ILE:HG21	1:Z:674:TYR:HE1	1.85	0.41
1:C:459:LYS:O	1:C:460:ASP:CB	2.71	0.41
1:D:527:HIS:NE2	1:D:532:ASP:OD1	2.53	0.41
1:R:450:GLN:OE1	1:Y:499:SER:HA	150.83	0.41
1:K:553:THR:HG22	1:K:553:THR:O	2.36	0.41
1:H:498:ASN:HD21	1:W:457:GLN:HB3	155.57	0.41
1:G:455:SER:O	1:G:456:ALA:CB	2.98	0.41
1:L:626:ASP:OD2	1:U:423:SER:HB3	162.36	0.41
1:M:607:TRP:HD1	1:M:608:GLN:O	2.05	0.41
1:O:498:ASN:O	1:O:499:SER:CB	2.69	0.41
1:L:313:ASN:HB3	1:L:682:GLU:HB3	2.08	0.41
1:X:630:HIS:O	1:X:632:SER:N	2.60	0.41
1:4:497:ASN:OD1	1:4:498:ASN:O	2.39	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:629:PHE:O	1:P:630:HIS:C	2.59	0.41
1:P:629:PHE:CE1	1:V:629:PHE:HE1	169.88	0.41
1:V:630:HIS:O	1:V:632:SER:N	2.47	0.41
1:1:286:ASN:HD22	1:1:286:ASN:C	2.22	0.41
1:R:287:ARG:CD	1:7:442:TYR:CZ	3.02	0.41
1:7:297:TRP:CD1	1:7:301:ILE:CD1	3.04	0.41
1:N:450:GLN:OE1	1:5:499:SER:HA	266.67	0.41
1:U:707:LYS:HD2	1:Y:386:GLN:NE2	2.35	0.41
1:1:257:TYR:OH	1:1:397:GLU:OE2	2.34	0.41
1:S:437:PRO:C	1:S:438:LEU:HD23	2.41	0.41
1:A:282:TYR:O	1:A:374:PRO:HD2	2.21	0.41
1:D:607:TRP:HD1	1:D:608:GLN:O	2.15	0.41
1:J:608:GLN:HE22	1:W:626:ASP:H	1.69	0.41
1:A:427:HIS:HE1	1:Z:624:HIS:O	140.89	0.41
1:E:350:GLN:HB3	1:F:693:LYS:HB2	2.03	0.41
1:I:265:THR:HG23	1:I:266:GLY:N	2.36	0.41
1:W:289:HIS:ND1	1:W:365:PRO:HG3	2.55	0.41
1:L:272:HIS:CB	1:L:384:GLY:HA2	2.51	0.41
1:E:629:PHE:O	1:E:630:HIS:C	2.64	0.41
1:O:399:PHE:CE2	1:P:693:LYS:HG3	2.56	0.41
1:M:544:GLY:HA2	1:6:444:TYR:CE1	146.77	0.41
1:N:608:GLN:HE22	1:R:626:ASP:H	172.44	0.41
1:A:313:ASN:HB3	1:A:682:GLU:HB3	2.06	0.41
1:I:479:LEU:HA	1:I:480:PRO:HD3	1.94	0.41
1:0:287:ARG:HG2	1:0:289:HIS:NE2	2.36	0.41
1:J:484:TYR:CD1	1:J:598:VAL:HG22	2.56	0.41
1:F:472:SER:HB3	1:4:270:ASP:O	128.78	0.41
1:A:580:VAL:HG11	1:Z:598:VAL:HG23	139.49	0.41
1:Q:580:VAL:HG11	1:U:598:VAL:HG23	130.94	0.41
1:E:217:GLY:O	1:E:218:ALA:HB2	2.23	0.41
1:A:305:TRP:HE3	1:A:734:ARG:NH2	2.18	0.41
1:7:312:LEU:HD12	1:7:313:ASN:N	2.35	0.41
1:S:649:ILE:HG21	1:S:649:ILE:HD13	1.87	0.41
1:K:433:ARG:HG3	1:U:382:ASN:HD21	194.07	0.41
1:M:355:LEU:HD13	1:M:355:LEU:HA	2.00	0.41
1:Z:722:THR:O	1:Z:724:PRO:HD3	2.21	0.41
1:K:252:TYR:CZ	1:K:375:GLN:HB2	2.55	0.41
1:K:312:LEU:HD12	1:K:313:ASN:N	2.42	0.41
1:C:444:TYR:CE1	1:N:544:GLY:HA2	101.92	0.41
1:U:226:GLY:HA3	1:U:317:PHE:CD1	2.68	0.41
1:2:484:TYR:CE1	1:3:599:MET:HE2	2.56	0.41
1:C:344:PHE:HB3	1:C:401:SER:CB	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:402:GLN:HG3	1:Q:227:ASN:ND2	2.35	0.41
1:E:254:ASN:O	1:E:255:HIS:HB2	2.25	0.41
1:T:328:ASP:C	1:T:330:VAL:H	2.32	0.41
1:Y:343:VAL:CG2	1:Y:344:PHE:N	2.93	0.41
1:O:227:ASN:HD21	1:S:402:GLN:HG3	95.92	0.41
1:X:649:ILE:HG12	1:X:650:LYS:H	1.92	0.41
1:Q:666:LYS:NZ	1:R:719:GLY:O	2.58	0.41
1:S:580:VAL:HG11	1:6:598:VAL:HG23	2.03	0.41
1:T:226:GLY:HA3	1:T:317:PHE:CD1	2.55	0.41
1:X:566:ILE:HG13	1:X:570:ASN:HB2	2.01	0.41
1:3:305:TRP:CE3	1:3:734:ARG:NH2	2.89	0.41
1:Y:443:LEU:HD11	1:7:541:MET:HE3	128.33	0.41
1:T:290:CYS:HB2	1:T:291:HIS:CD2	2.56	0.41
1:S:309:PRO:HB2	1:S:416:PHE:CD2	2.56	0.41
1:E:326:THR:O	1:E:326:THR:HG23	2.21	0.41
1:3:503:TRP:C	1:3:503:TRP:CD1	2.94	0.41
1:3:719:GLY:O	1:7:666:LYS:NZ	2.53	0.41
1:6:305:TRP:CE3	1:6:734:ARG:NH2	2.89	0.41
1:M:230:CYS:HA	1:M:242:THR:O	2.27	0.41
1:Y:254:ASN:O	1:Y:255:HIS:HB2	2.32	0.41
1:D:219:ASP:O	1:D:220:GLY:O	2.38	0.41
1:B:579:THR:O	1:V:507:SER:HA	2.21	0.41
1:O:257:TYR:O	1:1:719:GLY:HA2	2.21	0.41
1:R:578:GLY:O	1:R:596:VAL:HG12	2.34	0.41
1:N:649:ILE:HG12	1:N:650:LYS:N	2.36	0.41
1:2:252:TYR:CE1	1:2:375:GLN:HB2	2.56	0.41
1:Q:717:ASN:ND2	1:Q:717:ASN:H	2.18	0.41
1:L:351:LEU:HD23	1:L:351:LEU:HA	1.88	0.41
1:I:326:THR:HG23	1:I:326:THR:O	2.23	0.41
1:J:445:TYR:CD1	1:J:445:TYR:N	2.95	0.41
1:M:232:SER:HA	1:M:240:ILE:O	2.21	0.41
1:N:477:ASN:O	1:R:634:LEU:HB2	174.87	0.41
1:R:649:ILE:HG12	1:R:650:LYS:N	2.36	0.41
1:Q:579:THR:O	1:U:507:SER:HA	132.01	0.41
1:M:477:ASN:O	1:S:634:LEU:HB2	176.66	0.41
1:K:449:THR:HG22	1:T:502:THR:CG2	2.49	0.41
1:G:500:ASN:HA	1:4:449:THR:CG2	2.37	0.41
1:O:449:THR:OG1	1:X:501:PHE:CE2	202.32	0.41
1:I:500:ASN:HA	1:J:449:THR:CG2	96.54	0.41
1:M:340:THR:HG22	1:M:405:ARG:HG2	2.05	0.41
1:K:501:PHE:CE2	1:L:449:THR:HG21	98.52	0.41
1:5:502:THR:O	1:5:506:ALA:HB2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:379:LEU:CD1	1:O:437:PRO:HB3	2.50	0.41
1:J:379:LEU:HD13	1:V:437:PRO:HD3	132.54	0.41
1:3:405:ARG:H	1:3:408:ASN:ND2	2.03	0.41
1:U:441:GLN:NE2	1:U:474:GLN:HB3	2.36	0.41
1:P:286:ASN:HD21	1:P:619:TRP:N	2.11	0.41
1:J:475:PRO:HB3	1:W:520:PRO:HD3	2.03	0.41
1:N:397:GLU:HB2	1:O:367:PRO:CB	2.51	0.41
1:F:520:PRO:CG	1:F:635:MET:HG2	2.56	0.41
1:H:333:ILE:HG21	1:H:674:TYR:HE1	1.86	0.41
1:K:437:PRO:HB3	1:T:379:LEU:CD1	2.45	0.41
1:V:693:LYS:HD3	1:V:693:LYS:HA	1.87	0.41
1:P:262:SER:O	1:P:265:THR:CG2	2.69	0.41
1:S:437:PRO:HB3	1:6:379:LEU:CD1	2.50	0.41
1:4:599:MET:HE3	1:4:602:LEU:CD1	2.51	0.41
1:R:313:ASN:HB3	1:R:682:GLU:HB3	2.10	0.41
1:Q:599:MET:CE	1:U:484:TYR:CD1	128.38	0.41
1:M:312:LEU:HD13	1:M:683:ILE:HG12	2.02	0.41
1:M:484:TYR:CD1	1:S:599:MET:HE2	189.03	0.41
1:Y:484:TYR:CD1	1:Y:598:VAL:HG22	2.56	0.41
1:L:402:GLN:HG3	1:M:227:ASN:ND2	2.35	0.41
1:C:382:ASN:HD21	1:X:433:ARG:HG3	167.50	0.41
1:Q:238:ARG:NH1	1:Q:238:ARG:HG2	2.37	0.41
1:D:252:TYR:CE1	1:D:375:GLN:HB2	2.58	0.41
1:O:312:LEU:HD13	1:O:683:ILE:HG12	2.03	0.41
1:Q:273:TYR:CD1	1:Q:273:TYR:C	3.00	0.41
1:I:545:LYS:O	1:I:546:GLU:HB2	2.34	0.41
1:R:344:PHE:HB3	1:R:401:SER:CB	2.56	0.41
1:N:695:TRP:CE2	1:S:294:PRO:HD2	179.53	0.41
1:B:294:PRO:HB2	1:W:697:PRO:HD3	2.03	0.41
1:O:666:LYS:NZ	1:1:719:GLY:O	2.54	0.41
1:U:400:PRO:HA	1:V:228:TRP:O	2.21	0.41
1:J:340:THR:HA	1:J:404:LEU:O	2.21	0.41
1:C:253:ASN:O	1:C:254:ASN:C	2.73	0.41
1:T:239:VAL:O	1:T:239:VAL:HG13	2.40	0.41
1:C:445:TYR:CD1	1:C:445:TYR:N	2.90	0.41
1:V:445:TYR:CD1	1:V:445:TYR:N	2.87	0.41
1:R:239:VAL:CG1	1:R:685:TRP:HB2	2.57	0.41
1:B:497:ASN:HB2	1:O:586:SER:O	228.07	0.41
1:5:400:PRO:HA	1:6:228:TRP:O	2.20	0.41
1:W:252:TYR:CE1	1:W:375:GLN:HB2	2.63	0.41
1:W:252:TYR:CZ	1:W:375:GLN:HB2	2.61	0.41
1:A:230:CYS:HA	1:A:242:THR:O	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:314:PHE:HD1	1:B:681:VAL:HG22	1.86	0.41
1:B:314:PHE:HB3	1:B:412:PHE:HD1	1.89	0.41
1:C:314:PHE:HB3	1:C:412:PHE:HD1	1.85	0.41
1:I:502:THR:HG21	1:J:447:ASN:C	92.21	0.40
1:W:504:THR:CG2	1:W:505:GLY:N	2.90	0.40
1:B:449:THR:CG2	1:V:501:PHE:H	2.32	0.40
1:J:519:ASN:CB	1:J:520:PRO:CD	3.01	0.40
1:J:486:GLN:NE2	1:J:539:GLY:N	2.66	0.40
1:Q:486:GLN:O	1:Q:574:THR:HA	2.26	0.40
1:D:257:TYR:HE1	1:E:368:ALA:HB2	1.85	0.40
1:E:366:PHE:HA	1:E:367:PRO:HD3	1.85	0.40
1:X:277:SER:CB	1:1:438:LEU:HD11	2.44	0.40
1:K:431:LEU:HD23	1:K:431:LEU:O	2.21	0.40
1:I:364:PRO:CG	1:I:371:PHE:HB3	2.55	0.40
1:J:527:HIS:HE2	1:J:564:GLU:CD	2.24	0.40
1:2:359:HIS:HA	1:3:441:GLN:HA	2.03	0.40
1:N:436:ASN:HA	1:N:437:PRO:HD2	1.94	0.40
1:3:540:VAL:HG21	1:3:560:ILE:HG23	2.03	0.40
1:F:383:ASN:O	1:F:384:GLY:O	2.40	0.40
1:Z:399:PHE:CE2	1:0:693:LYS:HG3	2.55	0.40
1:A:626:ASP:OD2	1:Q:423:SER:HB3	169.73	0.40
1:B:629:PHE:O	1:B:630:HIS:C	2.59	0.40
1:C:423:SER:HB3	1:O:626:ASP:OD2	166.10	0.40
1:M:446:LEU:HD23	1:S:537:MET:HG3	213.09	0.40
1:N:460:ASP:HA	1:R:493:LYS:HE3	208.42	0.40
1:Z:487:GLN:HE21	1:Z:488:ARG:H	1.68	0.40
1:5:553:THR:HG23	1:5:557:ASN:CB	2.49	0.40
1:A:383:ASN:O	1:A:384:GLY:O	2.47	0.40
1:I:626:ASP:OD2	1:J:423:SER:HB3	38.96	0.40
1:C:626:ASP:OD2	1:R:423:SER:HB3	198.92	0.40
1:D:484:TYR:CD1	1:U:599:MET:CE	188.20	0.40
1:K:629:PHE:O	1:K:630:HIS:C	2.59	0.40
1:1:693:LYS:HD3	1:1:693:LYS:HA	1.86	0.40
1:I:313:ASN:HB3	1:I:682:GLU:HB3	2.04	0.40
1:K:313:ASN:HB3	1:K:682:GLU:HB3	2.05	0.40
1:3:289:HIS:CD2	1:3:365:PRO:HG3	2.57	0.40
1:X:226:GLY:HA3	1:X:317:PHE:CD1	2.57	0.40
1:K:498:ASN:HD21	1:L:457:GLN:HB3	105.21	0.40
1:S:476:LYS:NZ	1:6:516:SER:HB3	2.36	0.40
1:O:363:LEU:N	1:O:363:LEU:HD12	2.36	0.40
1:I:402:GLN:HG3	1:J:227:ASN:HD21	1.86	0.40
1:S:344:PHE:HB3	1:S:401:SER:CB	2.60	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:541:MET:HE3	1:X:443:LEU:HD11	2.04	0.40
1:O:695:TRP:CE2	1:T:294:PRO:HD2	120.70	0.40
1:K:344:PHE:HB3	1:K:401:SER:CB	2.61	0.40
1:Z:711:VAL:HB	1:Z:714:THR:HG21	2.02	0.40
1:I:340:THR:HA	1:I:404:LEU:O	2.31	0.40
1:6:278:THR:HA	1:6:279:PRO:HD3	1.90	0.40
1:W:717:ASN:H	1:W:717:ASN:ND2	2.25	0.40
1:6:503:TRP:C	1:6:503:TRP:CD1	2.94	0.40
1:O:326:THR:HG23	1:O:326:THR:O	2.22	0.40
1:N:445:TYR:CD1	1:N:445:TYR:N	2.89	0.40
1:O:351:LEU:HD23	1:O:351:LEU:HA	1.82	0.40
1:J:614:LEU:O	1:J:614:LEU:HD12	2.21	0.40
1:O:400:PRO:HA	1:P:228:TRP:O	48.18	0.40
1:Y:263:ALA:HB2	1:Y:385:SER:OG	2.21	0.40
1:A:501:PHE:H	1:W:449:THR:CG2	2.31	0.40
1:A:502:THR:HG21	1:W:447:ASN:C	2.42	0.40
1:B:537:MET:HG3	1:P:446:LEU:HD23	208.36	0.40
1:T:404:LEU:HD22	1:T:408:ASN:HB3	2.14	0.40
1:A:405:ARG:H	1:A:408:ASN:ND2	2.10	0.40
1:C:517:ILE:HD11	1:C:538:SER:HB3	2.04	0.40
1:I:519:ASN:O	1:I:538:SER:O	2.39	0.40
1:T:397:GLU:HG3	1:U:368:ALA:HB2	163.49	0.40
1:U:367:PRO:CB	1:Y:397:GLU:HB2	2.51	0.40
1:L:363:LEU:HA	1:L:364:PRO:HD3	1.95	0.40
1:7:270:ASP:HA	1:7:514:ARG:HB2	2.02	0.40
1:C:618:ILE:HB	1:C:619:TRP:CE3	2.56	0.40
1:A:509:TYR:HB3	1:A:518:ILE:HD11	2.10	0.40
1:S:268:SER:O	1:S:270:ASP:N	2.54	0.40
1:D:230:CYS:HA	1:D:242:THR:O	2.24	0.40
1:K:701:TYR:CE1	1:K:727:ILE:HD13	2.55	0.40
1:B:366:PHE:HA	1:B:367:PRO:HD3	1.91	0.40
1:F:384:GLY:O	1:F:386:GLN:N	2.58	0.40
1:N:497:ASN:OD1	1:N:498:ASN:O	2.38	0.40
1:L:511:LEU:O	1:L:512:ASN:C	2.68	0.40
1:5:262:SER:O	1:5:265:THR:CG2	2.65	0.40
1:P:527:HIS:NE2	1:P:532:ASP:OD1	2.54	0.40
1:Z:458:ASN:O	1:Z:459:LYS:C	2.60	0.40
1:R:287:ARG:HB3	1:R:290:CYS:SG	2.73	0.40
1:R:559:MET:SD	1:R:725:ARG:HA	2.60	0.40
1:1:297:TRP:CD1	1:1:301:ILE:CD1	3.05	0.40
1:4:373:ILE:HA	1:4:374:PRO:HD3	1.94	0.40
1:J:423:SER:HB3	1:W:626:ASP:OD2	2.20	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:265:THR:HG23	1:2:266:GLY:N	2.36	0.40
1:G:643:PRO:O	1:G:644:PRO:C	2.63	0.40
1:T:252:TYR:CE2	1:T:375:GLN:HB2	2.55	0.40
1:S:419:VAL:HG11	1:S:640:LEU:HD23	2.10	0.40
1:7:622:ILE:HD12	1:7:631:PRO:HB2	2.03	0.40
1:A:599:MET:HE2	1:J:484:TYR:CD1	2.55	0.40
1:A:599:MET:CE	1:J:484:TYR:CD1	3.05	0.40
1:J:599:MET:CE	1:J:602:LEU:HD11	2.67	0.40
1:K:599:MET:HE1	1:T:484:TYR:HD1	1.87	0.40
1:D:444:TYR:CE1	1:W:544:GLY:HA2	169.57	0.40
1:H:440:ASP:HB2	1:3:360:GLN:NE2	2.36	0.40
1:R:419:VAL:HG11	1:R:640:LEU:HD23	2.03	0.40
1:B:624:HIS:O	1:O:427:HIS:HE1	159.40	0.40
1:Z:355:LEU:HD13	1:Z:355:LEU:HA	1.91	0.40
1:E:427:HIS:HE1	1:N:624:HIS:O	191.91	0.40
1:X:249:LEU:HA	1:X:250:PRO:HD2	1.98	0.40
1:O:384:GLY:O	1:O:386:GLN:N	2.54	0.40
1:Z:272:HIS:CB	1:Z:384:GLY:HA2	2.52	0.40
1:G:649:ILE:HG12	1:G:650:LYS:H	1.91	0.40
1:P:624:HIS:O	1:V:427:HIS:HE1	159.47	0.40
1:7:435:MET:HG2	1:7:474:GLN:OE1	2.21	0.40
1:A:344:PHE:HB3	1:A:401:SER:CB	2.51	0.40
1:Z:516:SER:HB3	1:O:476:LYS:HZ3	1.84	0.40
1:Y:343:VAL:HG22	1:Y:344:PHE:N	2.45	0.40
1:H:699:VAL:O	1:H:731:TYR:HB3	2.27	0.40
1:Z:344:PHE:HB3	1:Z:401:SER:HB3	2.18	0.40
1:Y:273:TYR:C	1:Y:273:TYR:CD1	3.09	0.40
1:6:545:LYS:O	1:6:546:GLU:HB2	2.20	0.40
1:R:307:PHE:HA	1:R:686:GLU:O	2.21	0.40
1:6:252:TYR:CZ	1:6:375:GLN:HB2	2.56	0.40
1:Y:219:ASP:O	1:Y:220:GLY:O	2.39	0.40
1:A:491:LYS:HG3	1:A:533:LYS:O	2.21	0.40
1:K:331:THR:O	1:K:331:THR:HG23	2.31	0.40
1:I:285:PHE:CD2	1:I:681:VAL:HG21	2.62	0.40
1:C:243:SER:O	1:C:680:SER:HA	2.21	0.40
1:1:309:PRO:HB2	1:1:416:PHE:CD2	2.56	0.40
1:A:504:THR:CG2	1:A:505:GLY:N	2.85	0.40
1:B:504:THR:CG2	1:B:505:GLY:N	2.84	0.40
1:F:501:PHE:HD2	1:F:501:PHE:N	2.11	0.40
1:I:501:PHE:HA	1:I:504:THR:CG2	2.51	0.40
1:J:487:GLN:NE2	1:V:585:GLN:H	116.71	0.40
1:A:436:ASN:HA	1:A:437:PRO:HD2	1.95	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:359:HIS:CE1	1:T:436:ASN:HB3	73.10	0.40
1:M:441:GLN:HA	1:S:359:HIS:HA	183.43	0.40
1:Q:508:LYS:CB	1:Q:517:ILE:HA	2.45	0.40
1:J:437:PRO:HD3	1:W:379:LEU:HD13	2.03	0.40
1:W:508:LYS:HA	1:W:518:ILE:H	1.86	0.40
1:W:519:ASN:HD22	1:W:520:PRO:CD	2.38	0.40
1:X:432:ASP:O	1:X:435:MET:HE3	2.22	0.40
1:M:506:ALA:HA	1:M:537:MET:HE1	2.12	0.40
1:E:364:PRO:CG	1:E:371:PHE:HB3	2.52	0.40
1:N:397:GLU:HG3	1:O:368:ALA:HB2	2.04	0.40
1:P:252:TYR:OH	1:P:373:ILE:O	2.35	0.40
1:U:719:GLY:O	1:Y:666:LYS:NZ	2.54	0.40
1:O:474:GLN:O	1:O:476:LYS:HG3	2.30	0.40
1:O:287:ARG:NH1	1:O:615:GLN:O	2.55	0.40
1:T:503:TRP:CD1	1:T:503:TRP:C	2.99	0.40
1:T:503:TRP:CE2	1:T:508:LYS:HE3	2.56	0.40
1:B:251:THR:HG22	1:B:673:GLN:O	2.34	0.40
1:B:503:TRP:CE2	1:B:508:LYS:HE3	2.56	0.40
1:L:286:ASN:ND2	1:L:618:ILE:HB	2.53	0.40
1:W:431:LEU:O	1:W:431:LEU:HD23	2.23	0.40
1:M:618:ILE:HB	1:M:619:TRP:CE3	2.64	0.40
1:W:536:PRO:HD2	1:W:540:VAL:HG13	2.03	0.40
1:2:431:LEU:O	1:2:431:LEU:HD23	2.20	0.40
1:5:509:TYR:CD1	1:5:518:ILE:HD13	2.45	0.40
1:U:438:LEU:HD23	1:U:438:LEU:N	2.36	0.40
1:1:540:VAL:HG21	1:1:560:ILE:HG23	2.02	0.40
1:5:333:ILE:HG21	1:5:674:TYR:HE1	1.86	0.40
1:A:607:TRP:O	1:Z:625:THR:HB	138.55	0.40
1:2:630:HIS:N	1:2:631:PRO:HD3	2.36	0.40
1:G:436:ASN:HA	1:G:437:PRO:HD2	1.92	0.40
1:D:693:LYS:HG3	1:Q:399:PHE:CZ	189.15	0.40
1:N:313:ASN:HB3	1:N:682:GLU:HB3	2.02	0.40
1:Q:422:HIS:NE2	1:Q:612:VAL:HG22	2.37	0.40
1:B:313:ASN:HB3	1:B:682:GLU:HB3	2.04	0.40
1:L:555:LEU:HD23	1:L:555:LEU:C	2.41	0.40
1:J:313:ASN:HB3	1:J:682:GLU:HB3	2.02	0.40
1:A:433:ARG:HG3	1:Z:382:ASN:HD21	163.77	0.40
1:G:435:MET:HE2	1:G:471:MET:HB3	2.03	0.40
1:I:289:HIS:CD2	1:I:365:PRO:HG3	2.59	0.40
1:M:624:HIS:O	1:6:427:HIS:HE1	161.35	0.40
1:D:217:GLY:O	1:D:218:ALA:HB2	2.21	0.40
1:Y:433:ARG:HG3	1:7:382:ASN:HD21	124.41	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:433:ARG:HG3	1:X:382:ASN:HD21	165.80	0.40
1:J:659:PRO:HD2	1:K:372:MET:HE1	222.55	0.40
1:A:545:LYS:O	1:A:546:GLU:HB2	2.21	0.40
1:Z:452:GLN:NE2	1:Z:456:ALA:O	2.54	0.40
1:K:344:PHE:HB3	1:K:401:SER:HB3	2.08	0.40
1:S:310:LYS:HD2	1:S:310:LYS:HA	1.89	0.40
1:Q:445:TYR:CD1	1:Q:445:TYR:N	2.93	0.40
1:4:326:THR:O	1:4:326:THR:HG23	2.21	0.40
1:E:717:ASN:H	1:E:717:ASN:ND2	2.19	0.40
1:6:310:LYS:HA	1:6:310:LYS:HD2	1.88	0.40
1:G:273:TYR:CD1	1:G:273:TYR:C	3.02	0.40
1:F:310:LYS:HD2	1:F:310:LYS:HA	1.83	0.40
1:U:659:PRO:HB2	1:U:661:GLU:O	2.21	0.40
1:S:252:TYR:CZ	1:S:375:GLN:HB2	2.57	0.40
1:0:402:GLN:NE2	1:0:404:LEU:HD21	2.36	0.40
1:M:440:ASP:HB2	1:S:360:GLN:NE2	189.66	0.40
1:M:449:THR:CG2	1:S:500:ASN:HA	221.44	0.40
1:H:696:ASN:HD21	1:3:393:PHE:N	1.92	0.40
1:X:487:GLN:NE2	1:1:585:GLN:H	2.19	0.40
1:E:447:ASN:C	1:N:502:THR:HG21	240.86	0.40
1:Z:405:ARG:N	1:Z:408:ASN:HD22	2.13	0.40
1:Y:447:ASN:C	1:0:502:THR:HG21	2.42	0.40
1:V:474:GLN:O	1:V:476:LYS:HG3	2.21	0.40
1:H:521:GLY:O	1:H:522:THR:C	2.65	0.40
1:Q:432:ASP:O	1:Q:435:MET:HE3	2.21	0.40
1:Y:519:ASN:HD22	1:Y:520:PRO:HD3	1.87	0.40
1:V:536:PRO:HD2	1:V:540:VAL:HG13	2.07	0.40
1:K:245:ARG:NE	1:K:367:PRO:HA	2.36	0.40
1:Y:363:LEU:HA	1:Y:364:PRO:HD3	1.95	0.40
1:L:364:PRO:CG	1:L:371:PHE:HB3	2.52	0.40
1:F:519:ASN:HD22	1:F:520:PRO:HD3	1.86	0.40
1:C:474:GLN:O	1:C:476:LYS:HG3	2.24	0.40
1:E:441:GLN:NE2	1:E:474:GLN:HB3	2.37	0.40
1:E:436:ASN:HB3	1:G:359:HIS:CE1	73.18	0.40
1:A:517:ILE:HD11	1:A:538:SER:HB3	2.04	0.40
1:M:472:SER:O	1:S:517:ILE:HG22	192.05	0.40
1:G:397:GLU:HG3	1:H:368:ALA:HB2	2.04	0.40
1:H:363:LEU:HA	1:H:364:PRO:HD3	1.92	0.40
1:M:364:PRO:CG	1:M:371:PHE:HB3	2.51	0.40
1:K:359:HIS:HA	1:L:441:GLN:HA	77.54	0.40
1:Q:618:ILE:HB	1:Q:619:TRP:CE3	2.59	0.40
1:7:470:GLY:O	1:7:473:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:622:ILE:HD12	1:C:631:PRO:CB	2.51	0.40
1:M:497:ASN:OD1	1:M:498:ASN:O	2.43	0.40
1:3:366:PHE:CE2	1:3:368:ALA:HB3	2.56	0.40
1:A:608:GLN:HE22	1:Z:626:ASP:H	138.98	0.40
1:Z:295:ARG:O	1:Z:298:GLN:HB3	2.21	0.40
1:U:611:ASP:HB2	1:U:730:ARG:NH1	2.37	0.40
1:J:630:HIS:N	1:J:631:PRO:HD3	2.36	0.40
1:R:615:GLN:NE2	1:R:726:PRO:HA	2.40	0.40
1:C:599:MET:HE2	1:N:484:TYR:CD1	128.39	0.40
1:G:313:ASN:HB3	1:G:682:GLU:HB3	2.04	0.40
1:S:312:LEU:HD11	1:S:681:VAL:HG13	2.03	0.40
1:K:287:ARG:NH1	1:K:615:GLN:O	2.60	0.40
1:0:577:PHE:CD1	1:0:599:MET:HG2	2.56	0.40
1:W:386:GLN:HE22	1:X:707:LYS:HD2	1.84	0.40
1:1:290:CYS:HB2	1:1:291:HIS:CD2	2.57	0.40
1:I:599:MET:CE	1:1:484:TYR:CD1	3.05	0.40
1:B:697:PRO:HD3	1:Q:294:PRO:HB2	182.47	0.40
1:H:578:GLY:C	1:H:596:VAL:HG12	2.55	0.40
1:H:383:ASN:O	1:H:384:GLY:O	2.40	0.40
1:6:341:VAL:HG23	1:6:650:LYS:O	2.21	0.40
1:5:313:ASN:HB3	1:5:682:GLU:HB3	2.02	0.40
1:F:634:LEU:HD13	1:F:634:LEU:HA	1.80	0.40
1:0:384:GLY:C	1:0:386:GLN:H	2.24	0.40
1:C:634:LEU:HB2	1:X:477:ASN:O	165.60	0.40
1:Z:545:LYS:O	1:Z:547:SER:N	2.51	0.40
1:4:217:GLY:O	1:4:218:ALA:HB2	2.20	0.40
1:0:273:TYR:CD1	1:0:273:TYR:O	2.74	0.40
1:X:252:TYR:CE1	1:X:375:GLN:HB2	2.58	0.40
1:G:382:ASN:HD21	1:4:433:ARG:HG3	1.86	0.40
1:5:622:ILE:HD12	1:5:631:PRO:HB2	2.03	0.40
1:L:295:ARG:O	1:L:298:GLN:HB3	2.25	0.40
1:3:480:PRO:O	1:3:605:MET:HG2	2.21	0.40
1:Z:699:VAL:O	1:Z:731:TYR:HB3	2.21	0.40
1:I:593:THR:HG22	1:I:593:THR:O	2.20	0.40
1:E:390:ARG:HG3	1:5:699:VAL:HG21	126.87	0.40
1:N:344:PHE:HB3	1:N:401:SER:HB3	2.03	0.40
1:Q:624:HIS:O	1:Z:427:HIS:HE1	99.70	0.40
1:F:280:TRP:CE2	1:F:650:LYS:HD2	2.57	0.40
1:L:501:PHE:H	1:T:449:THR:CG2	65.23	0.40
1:Q:537:MET:HE2	1:Q:537:MET:HB3	1.80	0.40
1:Q:502:THR:HG21	1:Z:447:ASN:C	137.40	0.40
1:P:501:PHE:CB	1:P:504:THR:HG22	2.57	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:537:MET:HB3	1:V:537:MET:HE2	1.87	0.40
1:U:402:GLN:HG3	1:V:227:ASN:ND2	2.42	0.40
1:M:537:MET:HG3	1:6:446:LEU:HD23	174.09	0.40
1:E:373:ILE:HA	1:E:374:PRO:HD3	2.02	0.40
1:F:373:ILE:HA	1:F:374:PRO:HD3	1.93	0.40
1:F:436:ASN:HA	1:F:437:PRO:HD2	1.93	0.40
1:4:527:HIS:NE2	1:4:532:ASP:OD1	2.54	0.40
1:B:373:ILE:HA	1:B:374:PRO:HD3	1.95	0.40
1:G:373:ILE:HA	1:G:374:PRO:HD3	1.98	0.40
1:U:397:GLU:HB2	1:V:367:PRO:CB	2.65	0.40
1:M:557:ASN:HD22	1:M:557:ASN:HA	1.74	0.40
1:W:321:VAL:HG11	1:W:339:SER:HB2	2.02	0.40
1:T:437:PRO:C	1:T:438:LEU:HD23	2.47	0.40
1:F:262:SER:O	1:F:265:THR:CG2	2.70	0.40
1:5:262:SER:OG	1:5:272:HIS:HD2	2.05	0.40
1:H:497:ASN:OD1	1:H:498:ASN:O	2.40	0.40
1:H:608:GLN:HE22	1:3:626:ASP:H	1.69	0.40
1:M:397:GLU:OE1	1:M:650:LYS:NZ	2.46	0.40
1:E:499:SER:HA	1:5:450:GLN:OE1	150.71	0.40
1:H:622:ILE:CD1	1:H:631:PRO:HB2	2.52	0.40
1:1:286:ASN:ND2	1:1:618:ILE:HB	2.37	0.40
1:M:585:GLN:H	1:S:487:GLN:NE2	220.80	0.40
1:C:626:ASP:HB2	1:X:608:GLN:HA	160.13	0.40
1:T:373:ILE:HA	1:T:374:PRO:HD3	1.96	0.40
1:S:314:PHE:HD1	1:S:681:VAL:HG22	1.87	0.40
1:X:355:LEU:N	1:X:355:LEU:HD22	2.37	0.40
1:O:289:HIS:CD2	1:O:365:PRO:HG3	2.66	0.40
1:J:484:TYR:CD1	1:V:599:MET:CE	95.46	0.40
1:J:314:PHE:HD1	1:J:681:VAL:HG22	1.87	0.40
1:B:599:MET:HE3	1:B:602:LEU:CD1	2.52	0.40
1:J:577:PHE:CD1	1:J:599:MET:HG2	2.56	0.40
1:W:545:LYS:O	1:W:546:GLU:HB2	2.20	0.40
1:P:355:LEU:HD13	1:P:355:LEU:HA	1.94	0.40
1:S:649:ILE:HG12	1:S:650:LYS:H	1.86	0.40
1:F:599:MET:HE2	1:4:484:TYR:CD1	96.46	0.40
1:A:382:ASN:HD21	1:W:433:ARG:HG3	1.86	0.40
1:E:440:ASP:HB2	1:G:360:GLN:NE2	68.18	0.40
1:N:252:TYR:CE1	1:N:375:GLN:HB2	2.57	0.40
1:M:516:SER:HB3	1:S:476:LYS:HZ3	192.20	0.40
1:K:649:ILE:HG12	1:K:650:LYS:H	2.05	0.40
1:O:294:PRO:CB	1:T:697:PRO:HD3	121.36	0.40
1:N:328:ASP:C	1:N:330:VAL:H	2.26	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:343:VAL:HG22	1:L:344:PHE:N	2.36	0.40
1:Y:443:LEU:HD11	1:O:541:MET:HE3	2.03	0.40
1:2:219:ASP:O	1:2:220:GLY:O	2.40	0.40
1:4:652:THR:HA	1:4:653:PRO:HD2	1.91	0.40
1:W:344:PHE:HB3	1:W:401:SER:CB	2.51	0.40
1:X:601:ALA:HB3	1:1:601:ALA:HB3	2.04	0.40
1:O:252:TYR:CZ	1:O:375:GLN:HB2	2.57	0.40
1:J:711:VAL:HB	1:J:714:THR:HG21	2.21	0.40
1:V:717:ASN:ND2	1:V:717:ASN:H	2.19	0.40
1:J:351:LEU:HA	1:J:351:LEU:HD23	1.91	0.40
1:7:649:ILE:HG12	1:7:650:LYS:N	2.37	0.40
1:Q:545:LYS:O	1:Q:547:SER:N	2.49	0.40
1:A:314:PHE:HB3	1:A:412:PHE:HD1	1.85	0.40
1:J:649:ILE:HG12	1:J:650:LYS:N	2.38	0.40
1:I:305:TRP:CE3	1:I:734:ARG:NH2	2.90	0.40
1:O:314:PHE:HB3	1:O:412:PHE:HD1	1.87	0.40
1:T:243:SER:O	1:T:680:SER:HA	2.21	0.40
1:7:340:THR:HA	1:7:404:LEU:O	2.22	0.40

All (22) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:n:265:THR:OG1	1:z:454:GLY:O[2_554]	1.28	0.92
1:K:590:ASP:OD1	1:N:455:SER:N[4_556]	1.38	0.82
1:l:455:SER:OG	1:p:661:GLU:OE2[4_556]	1.50	0.70
1:D:494:THR:OG1	1:U:329:GLY:CA[2_454]	1.58	0.62
1:g:456:ALA:CB	1:7:548:ALA:O[4_446]	1.64	0.56
1:k:557:ASN:OD1	1:7:457:GLN:NE2[2_554]	1.64	0.56
1:D:494:THR:CG2	1:U:329:GLY:N[2_454]	1.66	0.54
1:N:454:GLY:O	1:T:497:ASN:OD1[4_456]	1.71	0.49
1:A:458:ASN:OD1	1:5:551:SER:OG[4_446]	1.80	0.40
1:l:455:SER:OG	1:p:661:GLU:CD[4_556]	1.80	0.40
1:K:590:ASP:OD2	1:N:455:SER:CB[4_556]	1.84	0.36
1:g:457:GLN:OE1	1:7:552:ASN:OD1[4_446]	1.85	0.35
1:g:547:SER:CB	1:k:455:SER:O[3_545]	1.91	0.29
1:g:457:GLN:NE2	1:7:549:GLY:CA[4_446]	1.93	0.27
1:g:557:ASN:OD1	1:k:457:GLN:NE2[3_545]	1.97	0.23
1:D:494:THR:CB	1:U:329:GLY:CA[2_454]	2.03	0.17
1:K:590:ASP:OD1	1:N:454:GLY:C[4_556]	2.07	0.13
1:t:494:THR:CG2	1:5:452:GLN:O[3_555]	2.08	0.12
1:D:494:THR:OG1	1:U:329:GLY:C[2_454]	2.10	0.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:g:456:ALA:CA	1:7:547:SER:O[4_446]	2.10	0.10
1:D:494:THR:CB	1:U:329:GLY:N[2_454]	2.17	0.03
1:K:590:ASP:OD1	1:N:455:SER:CA[4_556]	2.17	0.03

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	0	518/520 (100%)	466 (90%)	36 (7%)	16 (3%)	7	34
1	1	518/520 (100%)	462 (89%)	41 (8%)	15 (3%)	7	35
1	2	518/520 (100%)	463 (89%)	43 (8%)	12 (2%)	10	43
1	3	518/520 (100%)	459 (89%)	46 (9%)	13 (2%)	9	40
1	4	518/520 (100%)	466 (90%)	39 (8%)	13 (2%)	9	40
1	5	518/520 (100%)	471 (91%)	34 (7%)	13 (2%)	9	40
1	6	518/520 (100%)	464 (90%)	42 (8%)	12 (2%)	10	43
1	7	518/520 (100%)	469 (90%)	34 (7%)	15 (3%)	7	35
1	A	518/520 (100%)	460 (89%)	43 (8%)	15 (3%)	7	35
1	B	518/520 (100%)	464 (90%)	39 (8%)	15 (3%)	7	35
1	C	518/520 (100%)	463 (89%)	39 (8%)	16 (3%)	7	34
1	D	518/520 (100%)	464 (90%)	40 (8%)	14 (3%)	8	38
1	E	518/520 (100%)	463 (89%)	41 (8%)	14 (3%)	8	38
1	F	518/520 (100%)	462 (89%)	42 (8%)	14 (3%)	8	38
1	G	518/520 (100%)	465 (90%)	39 (8%)	14 (3%)	8	38
1	H	518/520 (100%)	462 (89%)	41 (8%)	15 (3%)	7	35
1	I	518/520 (100%)	469 (90%)	34 (7%)	15 (3%)	7	35
1	J	518/520 (100%)	464 (90%)	39 (8%)	15 (3%)	7	35
1	K	518/520 (100%)	466 (90%)	39 (8%)	13 (2%)	9	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L	518/520 (100%)	469 (90%)	34 (7%)	15 (3%)	7	35
1	M	518/520 (100%)	467 (90%)	38 (7%)	13 (2%)	9	40
1	N	518/520 (100%)	466 (90%)	38 (7%)	14 (3%)	8	38
1	O	518/520 (100%)	465 (90%)	39 (8%)	14 (3%)	8	38
1	P	518/520 (100%)	466 (90%)	38 (7%)	14 (3%)	8	38
1	Q	518/520 (100%)	465 (90%)	39 (8%)	14 (3%)	8	38
1	R	518/520 (100%)	463 (89%)	39 (8%)	16 (3%)	7	34
1	S	518/520 (100%)	463 (89%)	42 (8%)	13 (2%)	9	40
1	T	518/520 (100%)	471 (91%)	34 (7%)	13 (2%)	9	40
1	U	518/520 (100%)	471 (91%)	31 (6%)	16 (3%)	7	34
1	V	518/520 (100%)	464 (90%)	39 (8%)	15 (3%)	7	35
1	W	518/520 (100%)	463 (89%)	42 (8%)	13 (2%)	9	40
1	X	518/520 (100%)	461 (89%)	43 (8%)	14 (3%)	8	38
1	Y	518/520 (100%)	461 (89%)	44 (8%)	13 (2%)	9	40
1	Z	518/520 (100%)	462 (89%)	44 (8%)	12 (2%)	10	43
1	a	518/520 (100%)	466 (90%)	39 (8%)	13 (2%)	9	40
1	b	518/520 (100%)	467 (90%)	39 (8%)	12 (2%)	10	43
1	c	518/520 (100%)	465 (90%)	41 (8%)	12 (2%)	10	43
1	d	518/520 (100%)	465 (90%)	40 (8%)	13 (2%)	9	40
1	e	518/520 (100%)	471 (91%)	34 (7%)	13 (2%)	9	40
1	f	518/520 (100%)	466 (90%)	36 (7%)	16 (3%)	7	34
1	g	518/520 (100%)	467 (90%)	38 (7%)	13 (2%)	9	40
1	h	518/520 (100%)	463 (89%)	44 (8%)	11 (2%)	11	47
1	i	518/520 (100%)	466 (90%)	37 (7%)	15 (3%)	7	35
1	j	518/520 (100%)	467 (90%)	38 (7%)	13 (2%)	9	40
1	k	518/520 (100%)	465 (90%)	37 (7%)	16 (3%)	7	34
1	l	518/520 (100%)	468 (90%)	38 (7%)	12 (2%)	10	43
1	m	518/520 (100%)	468 (90%)	37 (7%)	13 (2%)	9	40
1	n	518/520 (100%)	469 (90%)	36 (7%)	13 (2%)	9	40
1	o	518/520 (100%)	464 (90%)	40 (8%)	14 (3%)	8	38
1	p	518/520 (100%)	463 (89%)	39 (8%)	16 (3%)	7	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	q	518/520 (100%)	464 (90%)	38 (7%)	16 (3%)	7	34
1	r	518/520 (100%)	464 (90%)	38 (7%)	16 (3%)	7	34
1	s	518/520 (100%)	465 (90%)	40 (8%)	13 (2%)	9	40
1	t	518/520 (100%)	463 (89%)	40 (8%)	15 (3%)	7	35
1	u	518/520 (100%)	467 (90%)	37 (7%)	14 (3%)	8	38
1	v	518/520 (100%)	469 (90%)	34 (7%)	15 (3%)	7	35
1	w	518/520 (100%)	465 (90%)	38 (7%)	15 (3%)	7	35
1	x	518/520 (100%)	465 (90%)	41 (8%)	12 (2%)	10	43
1	y	518/520 (100%)	468 (90%)	35 (7%)	15 (3%)	7	35
1	z	518/520 (100%)	466 (90%)	39 (8%)	13 (2%)	9	40
All	All	31080/31200 (100%)	27915 (90%)	2328 (8%)	837 (3%)	8	38

All (837) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	459	LYS
1	A	519	ASN
1	A	531	LYS
1	A	545	LYS
1	B	459	LYS
1	B	519	ASN
1	B	531	LYS
1	C	459	LYS
1	C	519	ASN
1	C	531	LYS
1	C	553	THR
1	D	459	LYS
1	D	519	ASN
1	D	531	LYS
1	D	553	THR
1	E	459	LYS
1	E	519	ASN
1	E	531	LYS
1	E	545	LYS
1	F	519	ASN
1	F	531	LYS
1	F	545	LYS
1	F	553	THR

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Mol	Chain	Res	Type
1	G	459	LYS
1	G	519	ASN
1	G	531	LYS
1	G	545	LYS
1	H	459	LYS
1	H	519	ASN
1	H	531	LYS
1	H	553	THR
1	I	384	GLY
1	I	459	LYS
1	I	519	ASN
1	I	531	LYS
1	I	545	LYS
1	I	553	THR
1	J	459	LYS
1	J	519	ASN
1	J	531	LYS
1	J	553	THR
1	K	459	LYS
1	K	519	ASN
1	K	531	LYS
1	K	552	ASN
1	K	553	THR
1	L	459	LYS
1	L	519	ASN
1	L	531	LYS
1	M	459	LYS
1	M	519	ASN
1	M	531	LYS
1	N	459	LYS
1	N	519	ASN
1	N	531	LYS
1	N	553	THR
1	O	459	LYS
1	O	519	ASN
1	O	531	LYS
1	O	545	LYS
1	O	553	THR
1	P	459	LYS
1	P	519	ASN
1	P	531	LYS
1	P	545	LYS

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Mol	Chain	Res	Type
1	P	553	THR
1	Q	268	SER
1	Q	459	LYS
1	Q	519	ASN
1	Q	531	LYS
1	R	268	SER
1	R	459	LYS
1	R	519	ASN
1	R	531	LYS
1	R	545	LYS
1	S	459	LYS
1	S	519	ASN
1	S	531	LYS
1	S	545	LYS
1	T	459	LYS
1	T	519	ASN
1	T	531	LYS
1	T	545	LYS
1	U	384	GLY
1	U	459	LYS
1	U	519	ASN
1	U	531	LYS
1	U	545	LYS
1	V	459	LYS
1	V	519	ASN
1	V	531	LYS
1	V	553	THR
1	W	384	GLY
1	W	459	LYS
1	W	519	ASN
1	W	531	LYS
1	X	459	LYS
1	X	519	ASN
1	X	531	LYS
1	X	553	THR
1	Y	459	LYS
1	Y	519	ASN
1	Y	531	LYS
1	Y	545	LYS
1	Y	553	THR
1	Z	459	LYS
1	Z	519	ASN

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Mol	Chain	Res	Type
1	Z	531	LYS
1	Z	552	ASN
1	a	459	LYS
1	a	519	ASN
1	a	531	LYS
1	a	553	THR
1	b	459	LYS
1	b	519	ASN
1	b	531	LYS
1	b	545	LYS
1	b	553	THR
1	c	519	ASN
1	c	531	LYS
1	c	545	LYS
1	d	459	LYS
1	d	519	ASN
1	d	531	LYS
1	d	545	LYS
1	d	553	THR
1	e	459	LYS
1	e	519	ASN
1	e	531	LYS
1	e	545	LYS
1	e	553	THR
1	f	459	LYS
1	f	519	ASN
1	f	531	LYS
1	g	459	LYS
1	g	519	ASN
1	g	531	LYS
1	g	552	ASN
1	h	459	LYS
1	h	519	ASN
1	h	531	LYS
1	h	553	THR
1	i	459	LYS
1	i	519	ASN
1	i	531	LYS
1	i	545	LYS
1	i	553	THR
1	j	268	SER
1	j	459	LYS

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Mol	Chain	Res	Type
1	j	519	ASN
1	j	531	LYS
1	k	384	GLY
1	k	459	LYS
1	k	519	ASN
1	k	531	LYS
1	l	459	LYS
1	l	519	ASN
1	l	531	LYS
1	l	553	THR
1	m	459	LYS
1	m	519	ASN
1	m	531	LYS
1	m	553	THR
1	n	459	LYS
1	n	519	ASN
1	n	531	LYS
1	n	545	LYS
1	n	553	THR
1	o	459	LYS
1	o	519	ASN
1	o	531	LYS
1	o	553	THR
1	p	459	LYS
1	p	519	ASN
1	p	531	LYS
1	p	553	THR
1	q	459	LYS
1	q	519	ASN
1	q	531	LYS
1	q	553	THR
1	r	459	LYS
1	r	519	ASN
1	r	531	LYS
1	r	545	LYS
1	r	553	THR
1	s	459	LYS
1	s	519	ASN
1	s	531	LYS
1	s	545	LYS
1	s	553	THR
1	t	459	LYS

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Mol	Chain	Res	Type
1	t	519	ASN
1	t	531	LYS
1	t	553	THR
1	u	459	LYS
1	u	519	ASN
1	u	531	LYS
1	u	545	LYS
1	v	459	LYS
1	v	519	ASN
1	v	531	LYS
1	v	553	THR
1	w	459	LYS
1	w	519	ASN
1	w	531	LYS
1	w	545	LYS
1	x	459	LYS
1	x	519	ASN
1	x	531	LYS
1	x	545	LYS
1	x	553	THR
1	y	459	LYS
1	y	519	ASN
1	y	531	LYS
1	z	459	LYS
1	z	519	ASN
1	z	531	LYS
1	z	553	THR
1	0	459	LYS
1	0	519	ASN
1	0	531	LYS
1	0	545	LYS
1	0	553	THR
1	1	459	LYS
1	1	519	ASN
1	1	531	LYS
1	1	545	LYS
1	1	553	THR
1	2	459	LYS
1	2	519	ASN
1	2	531	LYS
1	3	459	LYS
1	3	519	ASN

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Mol	Chain	Res	Type
1	3	531	LYS
1	3	545	LYS
1	3	553	THR
1	4	459	LYS
1	4	519	ASN
1	4	531	LYS
1	5	459	LYS
1	5	519	ASN
1	5	531	LYS
1	5	545	LYS
1	6	459	LYS
1	6	519	ASN
1	6	531	LYS
1	6	545	LYS
1	7	459	LYS
1	7	519	ASN
1	7	531	LYS
1	7	553	THR
1	A	220	GLY
1	A	268	SER
1	A	384	GLY
1	A	499	SER
1	A	544	GLY
1	A	552	ASN
1	A	553	THR
1	B	220	GLY
1	B	268	SER
1	B	384	GLY
1	B	544	GLY
1	B	552	ASN
1	B	553	THR
1	C	220	GLY
1	C	268	SER
1	C	384	GLY
1	C	544	GLY
1	C	545	LYS
1	D	220	GLY
1	D	268	SER
1	D	384	GLY
1	D	544	GLY
1	D	545	LYS
1	D	552	ASN

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Mol	Chain	Res	Type
1	E	220	GLY
1	E	268	SER
1	E	384	GLY
1	E	544	GLY
1	E	552	ASN
1	E	553	THR
1	F	220	GLY
1	F	268	SER
1	F	384	GLY
1	F	459	LYS
1	F	499	SER
1	F	544	GLY
1	F	552	ASN
1	G	220	GLY
1	G	268	SER
1	G	384	GLY
1	G	544	GLY
1	G	552	ASN
1	G	553	THR
1	H	220	GLY
1	H	268	SER
1	H	384	GLY
1	H	499	SER
1	H	544	GLY
1	H	545	LYS
1	I	220	GLY
1	I	268	SER
1	I	544	GLY
1	I	552	ASN
1	J	220	GLY
1	J	268	SER
1	J	384	GLY
1	J	544	GLY
1	J	545	LYS
1	J	552	ASN
1	K	220	GLY
1	K	268	SER
1	K	384	GLY
1	K	544	GLY
1	K	545	LYS
1	L	220	GLY
1	L	268	SER

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Mol	Chain	Res	Type
1	L	384	GLY
1	L	545	LYS
1	L	552	ASN
1	L	553	THR
1	M	220	GLY
1	M	268	SER
1	M	384	GLY
1	M	545	LYS
1	M	552	ASN
1	M	553	THR
1	N	220	GLY
1	N	268	SER
1	N	384	GLY
1	N	499	SER
1	N	545	LYS
1	N	552	ASN
1	O	220	GLY
1	O	268	SER
1	O	384	GLY
1	O	552	ASN
1	P	220	GLY
1	P	268	SER
1	P	384	GLY
1	P	544	GLY
1	P	552	ASN
1	Q	220	GLY
1	Q	384	GLY
1	Q	499	SER
1	Q	545	LYS
1	Q	552	ASN
1	Q	553	THR
1	R	220	GLY
1	R	384	GLY
1	R	552	ASN
1	R	553	THR
1	S	220	GLY
1	S	268	SER
1	S	384	GLY
1	S	552	ASN
1	S	553	THR
1	T	220	GLY
1	T	268	SER

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Mol	Chain	Res	Type
1	T	384	GLY
1	T	544	GLY
1	T	552	ASN
1	T	553	THR
1	U	220	GLY
1	U	268	SER
1	U	499	SER
1	U	544	GLY
1	U	552	ASN
1	U	553	THR
1	V	220	GLY
1	V	268	SER
1	V	384	GLY
1	V	499	SER
1	V	544	GLY
1	V	545	LYS
1	V	552	ASN
1	W	220	GLY
1	W	268	SER
1	W	499	SER
1	W	544	GLY
1	W	545	LYS
1	W	552	ASN
1	W	553	THR
1	X	220	GLY
1	X	268	SER
1	X	384	GLY
1	X	545	LYS
1	X	552	ASN
1	Y	220	GLY
1	Y	268	SER
1	Y	384	GLY
1	Y	499	SER
1	Y	544	GLY
1	Z	220	GLY
1	Z	268	SER
1	Z	384	GLY
1	Z	553	THR
1	a	220	GLY
1	a	268	SER
1	a	384	GLY
1	a	545	LYS

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Mol	Chain	Res	Type
1	a	552	ASN
1	b	220	GLY
1	b	268	SER
1	b	384	GLY
1	b	544	GLY
1	c	220	GLY
1	c	268	SER
1	c	384	GLY
1	c	459	LYS
1	c	544	GLY
1	c	552	ASN
1	c	553	THR
1	d	220	GLY
1	d	268	SER
1	d	384	GLY
1	d	544	GLY
1	d	552	ASN
1	e	220	GLY
1	e	268	SER
1	e	384	GLY
1	e	544	GLY
1	f	220	GLY
1	f	268	SER
1	f	384	GLY
1	f	545	LYS
1	f	552	ASN
1	f	553	THR
1	g	220	GLY
1	g	268	SER
1	g	384	GLY
1	g	544	GLY
1	g	545	LYS
1	g	553	THR
1	h	220	GLY
1	h	268	SER
1	h	384	GLY
1	h	545	LYS
1	h	552	ASN
1	i	220	GLY
1	i	268	SER
1	i	384	GLY
1	i	499	SER

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Mol	Chain	Res	Type
1	j	220	GLY
1	j	384	GLY
1	j	544	GLY
1	j	545	LYS
1	j	552	ASN
1	j	553	THR
1	k	220	GLY
1	k	268	SER
1	k	544	GLY
1	k	545	LYS
1	k	552	ASN
1	k	553	THR
1	l	220	GLY
1	l	268	SER
1	l	384	GLY
1	l	545	LYS
1	l	552	ASN
1	m	220	GLY
1	m	268	SER
1	m	384	GLY
1	m	544	GLY
1	m	545	LYS
1	n	220	GLY
1	n	268	SER
1	n	384	GLY
1	n	499	SER
1	o	220	GLY
1	o	268	SER
1	o	384	GLY
1	o	544	GLY
1	o	545	LYS
1	o	552	ASN
1	p	220	GLY
1	p	268	SER
1	p	384	GLY
1	p	544	GLY
1	p	545	LYS
1	p	552	ASN
1	q	220	GLY
1	q	268	SER
1	q	384	GLY
1	q	545	LYS

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Mol	Chain	Res	Type
1	q	552	ASN
1	r	220	GLY
1	r	268	SER
1	r	384	GLY
1	r	544	GLY
1	r	552	ASN
1	s	220	GLY
1	s	268	SER
1	s	384	GLY
1	s	499	SER
1	s	544	GLY
1	s	552	ASN
1	t	220	GLY
1	t	268	SER
1	t	384	GLY
1	t	545	LYS
1	t	552	ASN
1	u	220	GLY
1	u	268	SER
1	u	384	GLY
1	u	544	GLY
1	u	553	THR
1	v	220	GLY
1	v	268	SER
1	v	384	GLY
1	v	544	GLY
1	v	545	LYS
1	v	552	ASN
1	w	220	GLY
1	w	268	SER
1	w	384	GLY
1	w	544	GLY
1	w	552	ASN
1	w	553	THR
1	x	220	GLY
1	x	268	SER
1	x	384	GLY
1	x	544	GLY
1	x	552	ASN
1	y	220	GLY
1	y	268	SER
1	y	384	GLY

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Mol	Chain	Res	Type
1	y	552	ASN
1	y	553	THR
1	z	220	GLY
1	z	268	SER
1	z	384	GLY
1	z	545	LYS
1	0	220	GLY
1	0	268	SER
1	0	384	GLY
1	0	552	ASN
1	1	220	GLY
1	1	268	SER
1	1	384	GLY
1	1	552	ASN
1	2	220	GLY
1	2	268	SER
1	2	384	GLY
1	2	544	GLY
1	2	545	LYS
1	2	552	ASN
1	2	553	THR
1	3	220	GLY
1	3	268	SER
1	3	384	GLY
1	3	544	GLY
1	3	552	ASN
1	4	220	GLY
1	4	268	SER
1	4	384	GLY
1	4	544	GLY
1	4	545	LYS
1	4	552	ASN
1	4	553	THR
1	5	220	GLY
1	5	268	SER
1	5	384	GLY
1	5	552	ASN
1	5	553	THR
1	6	220	GLY
1	6	268	SER
1	6	384	GLY
1	6	499	SER

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Mol	Chain	Res	Type
1	6	544	GLY
1	6	552	ASN
1	6	553	THR
1	7	220	GLY
1	7	268	SER
1	7	384	GLY
1	7	545	LYS
1	7	552	ASN
1	A	218	ALA
1	B	499	SER
1	B	545	LYS
1	C	218	ALA
1	C	499	SER
1	C	552	ASN
1	D	218	ALA
1	D	499	SER
1	E	218	ALA
1	E	499	SER
1	F	218	ALA
1	F	518	ILE
1	G	499	SER
1	H	218	ALA
1	H	552	ASN
1	I	218	ALA
1	I	499	SER
1	J	218	ALA
1	J	499	SER
1	K	218	ALA
1	L	218	ALA
1	L	499	SER
1	M	218	ALA
1	M	499	SER
1	N	218	ALA
1	N	544	GLY
1	O	218	ALA
1	P	218	ALA
1	P	460	ASP
1	P	499	SER
1	Q	218	ALA
1	Q	544	GLY
1	R	218	ALA
1	R	499	SER

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Mol	Chain	Res	Type
1	S	218	ALA
1	T	218	ALA
1	U	218	ALA
1	V	218	ALA
1	W	218	ALA
1	X	218	ALA
1	X	499	SER
1	Y	218	ALA
1	Y	552	ASN
1	Z	218	ALA
1	Z	545	LYS
1	a	218	ALA
1	a	499	SER
1	b	218	ALA
1	b	499	SER
1	b	552	ASN
1	c	218	ALA
1	c	499	SER
1	d	218	ALA
1	d	499	SER
1	e	218	ALA
1	e	499	SER
1	e	552	ASN
1	f	218	ALA
1	f	499	SER
1	g	218	ALA
1	g	499	SER
1	h	218	ALA
1	h	499	SER
1	i	552	ASN
1	j	218	ALA
1	k	218	ALA
1	k	385	SER
1	k	456	ALA
1	k	499	SER
1	l	218	ALA
1	l	499	SER
1	l	544	GLY
1	m	218	ALA
1	m	499	SER
1	m	552	ASN
1	n	218	ALA

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Mol	Chain	Res	Type
1	n	544	GLY
1	n	552	ASN
1	o	218	ALA
1	o	499	SER
1	p	218	ALA
1	p	499	SER
1	q	218	ALA
1	q	499	SER
1	q	544	GLY
1	r	218	ALA
1	r	499	SER
1	s	218	ALA
1	t	218	ALA
1	t	499	SER
1	u	218	ALA
1	u	499	SER
1	u	552	ASN
1	v	218	ALA
1	v	499	SER
1	w	218	ALA
1	w	499	SER
1	x	218	ALA
1	x	499	SER
1	y	499	SER
1	y	545	LYS
1	z	218	ALA
1	z	499	SER
1	z	544	GLY
1	z	552	ASN
1	0	218	ALA
1	0	499	SER
1	1	218	ALA
1	1	499	SER
1	1	544	GLY
1	2	218	ALA
1	2	499	SER
1	3	218	ALA
1	3	499	SER
1	4	218	ALA
1	4	499	SER
1	5	218	ALA
1	5	499	SER

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Mol	Chain	Res	Type
1	5	544	GLY
1	6	218	ALA
1	7	218	ALA
1	7	499	SER
1	7	544	GLY
1	A	328	ASP
1	A	518	ILE
1	B	218	ALA
1	G	218	ALA
1	G	385	SER
1	H	460	ASP
1	K	499	SER
1	O	499	SER
1	O	544	GLY
1	P	385	SER
1	S	499	SER
1	S	544	GLY
1	T	499	SER
1	X	385	SER
1	Z	499	SER
1	a	460	ASP
1	f	544	GLY
1	i	218	ALA
1	j	499	SER
1	n	460	ASP
1	o	460	ASP
1	p	460	ASP
1	r	253	ASN
1	v	328	ASP
1	y	218	ALA
1	5	460	ASP
1	7	460	ASP
1	B	460	ASP
1	C	460	ASP
1	E	460	ASP
1	G	460	ASP
1	I	460	ASP
1	J	460	ASP
1	L	460	ASP
1	L	544	GLY
1	M	460	ASP
1	M	544	GLY

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Mol	Chain	Res	Type
1	O	460	ASP
1	R	460	ASP
1	R	544	GLY
1	U	460	ASP
1	U	518	ILE
1	X	460	ASP
1	Z	544	GLY
1	d	460	ASP
1	f	328	ASP
1	g	460	ASP
1	i	253	ASN
1	i	328	ASP
1	i	460	ASP
1	j	460	ASP
1	k	460	ASP
1	q	460	ASP
1	t	460	ASP
1	v	385	SER
1	w	460	ASP
1	y	460	ASP
1	y	544	GLY
1	0	328	ASP
1	0	385	SER
1	0	460	ASP
1	1	385	SER
1	3	460	ASP
1	D	328	ASP
1	H	328	ASP
1	H	385	SER
1	I	328	ASP
1	I	385	SER
1	J	385	SER
1	K	460	ASP
1	N	266	GLY
1	N	460	ASP
1	U	330	VAL
1	U	385	SER
1	V	460	ASP
1	W	460	ASP
1	e	460	ASP
1	f	460	ASP
1	m	460	ASP

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Mol	Chain	Res	Type
1	p	266	GLY
1	p	328	ASP
1	r	385	SER
1	u	385	SER
1	u	460	ASP
1	v	460	ASP
1	w	328	ASP
1	1	460	ASP
1	4	460	ASP
1	7	385	SER
1	C	631	PRO
1	D	518	ILE
1	L	631	PRO
1	R	266	GLY
1	p	518	ILE
1	q	518	ILE
1	t	266	GLY
1	z	631	PRO
1	0	544	GLY
1	C	266	GLY
1	V	631	PRO
1	f	518	ILE
1	t	544	GLY
1	y	518	ILE
1	A	631	PRO
1	B	518	ILE
1	B	631	PRO
1	E	518	ILE
1	J	631	PRO
1	L	518	ILE
1	O	631	PRO
1	X	544	GLY
1	i	544	GLY
1	q	266	GLY
1	q	631	PRO
1	r	266	GLY
1	r	518	ILE
1	w	631	PRO
1	0	266	GLY
1	7	631	PRO
1	F	631	PRO
1	Q	631	PRO

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Mol	Chain	Res	Type
1	R	631	PRO
1	S	518	ILE
1	V	518	ILE
1	f	631	PRO
1	k	518	ILE
1	o	631	PRO
1	s	631	PRO
1	y	631	PRO
1	C	518	ILE
1	Q	266	GLY
1	R	518	ILE
1	T	266	GLY
1	Y	631	PRO
1	a	544	GLY
1	t	518	ILE
1	1	518	ILE

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 X-ray entries followed by that with respect to entries of similar resolution. 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	0	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	1	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	2	452/452 (100%)	414 (92%)	38 (8%)	16	51
1	3	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	4	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	5	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	6	452/452 (100%)	414 (92%)	38 (8%)	16	51
1	7	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	A	452/452 (100%)	408 (90%)	44 (10%)	12	42
1	B	452/452 (100%)	409 (90%)	43 (10%)	12	44
1	C	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	D	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	E	452/452 (100%)	413 (91%)	39 (9%)	15	50

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	G	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	H	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	I	452/452 (100%)	410 (91%)	42 (9%)	13	45
1	J	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	K	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	L	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	M	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	N	452/452 (100%)	414 (92%)	38 (8%)	16	51
1	O	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	P	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	Q	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	R	452/452 (100%)	408 (90%)	44 (10%)	12	42
1	S	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	T	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	U	452/452 (100%)	410 (91%)	42 (9%)	13	45
1	V	452/452 (100%)	409 (90%)	43 (10%)	12	44
1	W	452/452 (100%)	410 (91%)	42 (9%)	13	45
1	X	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	Y	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	Z	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	a	452/452 (100%)	414 (92%)	38 (8%)	16	51
1	b	452/452 (100%)	410 (91%)	42 (9%)	13	45
1	c	452/452 (100%)	408 (90%)	44 (10%)	12	42
1	d	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	e	452/452 (100%)	410 (91%)	42 (9%)	13	45
1	f	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	g	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	h	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	i	452/452 (100%)	410 (91%)	42 (9%)	13	45
1	j	452/452 (100%)	412 (91%)	40 (9%)	14	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	k	452/452 (100%)	408 (90%)	44 (10%)	12	42
1	l	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	m	452/452 (100%)	414 (92%)	38 (8%)	16	51
1	n	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	o	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	p	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	q	452/452 (100%)	408 (90%)	44 (10%)	12	42
1	r	452/452 (100%)	411 (91%)	41 (9%)	14	46
1	s	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	t	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	u	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	v	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	w	452/452 (100%)	412 (91%)	40 (9%)	14	48
1	x	452/452 (100%)	415 (92%)	37 (8%)	17	52
1	y	452/452 (100%)	413 (91%)	39 (9%)	15	50
1	z	452/452 (100%)	409 (90%)	43 (10%)	12	44
All	All	27120/27120 (100%)	24715 (91%)	2405 (9%)	14	48

All (2405) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	219	ASP
1	A	223	ASN
1	A	242	THR
1	A	243	SER
1	A	251	THR
1	A	265	THR
1	A	286	ASN
1	A	287	ARG
1	A	289	HIS
1	A	295	ARG
1	A	300	LEU
1	A	333	ILE
1	A	341	VAL
1	A	379	LEU
1	A	397	GLU

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Mol	Chain	Res	Type
1	A	412	PHE
1	A	434	LEU
1	A	435	MET
1	A	443	LEU
1	A	449	THR
1	A	458	ASN
1	A	501	PHE
1	A	504	THR
1	A	507	SER
1	A	532	ASP
1	A	537	MET
1	A	551	SER
1	A	556	ASP
1	A	566	ILE
1	A	572	VAL
1	A	576	ARG
1	A	582	VAL
1	A	584	LEU
1	A	587	SER
1	A	599	MET
1	A	622	ILE
1	A	626	ASP
1	A	628	HIS
1	A	634	LEU
1	A	690	GLU
1	A	691	ASN
1	A	696	ASN
1	A	722	THR
1	A	725	ARG
1	B	219	ASP
1	B	223	ASN
1	B	242	THR
1	B	251	THR
1	B	265	THR
1	B	270	ASP
1	B	286	ASN
1	B	287	ARG
1	B	289	HIS
1	B	295	ARG
1	B	300	LEU
1	B	333	ILE
1	B	341	VAL

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Mol	Chain	Res	Type
1	B	379	LEU
1	B	397	GLU
1	B	412	PHE
1	B	434	LEU
1	B	435	MET
1	B	449	THR
1	B	458	ASN
1	B	501	PHE
1	B	504	THR
1	B	507	SER
1	B	532	ASP
1	B	537	MET
1	B	551	SER
1	B	556	ASP
1	B	566	ILE
1	B	572	VAL
1	B	576	ARG
1	B	582	VAL
1	B	587	SER
1	B	599	MET
1	B	626	ASP
1	B	628	HIS
1	B	634	LEU
1	B	669	SER
1	B	690	GLU
1	B	691	ASN
1	B	696	ASN
1	B	700	GLN
1	B	722	THR
1	B	725	ARG
1	C	219	ASP
1	C	223	ASN
1	C	242	THR
1	C	251	THR
1	C	286	ASN
1	C	287	ARG
1	C	289	HIS
1	C	295	ARG
1	C	300	LEU
1	C	333	ILE
1	C	379	LEU
1	C	412	PHE

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Mol	Chain	Res	Type
1	C	434	LEU
1	C	435	MET
1	C	443	LEU
1	C	449	THR
1	C	458	ASN
1	C	501	PHE
1	C	504	THR
1	C	532	ASP
1	C	537	MET
1	C	551	SER
1	C	556	ASP
1	C	566	ILE
1	C	572	VAL
1	C	576	ARG
1	C	582	VAL
1	C	587	SER
1	C	622	ILE
1	C	626	ASP
1	C	628	HIS
1	C	634	LEU
1	C	676	THR
1	C	690	GLU
1	C	691	ASN
1	C	696	ASN
1	C	717	ASN
1	C	722	THR
1	C	725	ARG
1	D	219	ASP
1	D	223	ASN
1	D	242	THR
1	D	251	THR
1	D	265	THR
1	D	286	ASN
1	D	287	ARG
1	D	289	HIS
1	D	295	ARG
1	D	300	LEU
1	D	333	ILE
1	D	341	VAL
1	D	379	LEU
1	D	397	GLU
1	D	412	PHE

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Mol	Chain	Res	Type
1	D	434	LEU
1	D	435	MET
1	D	443	LEU
1	D	449	THR
1	D	458	ASN
1	D	501	PHE
1	D	504	THR
1	D	532	ASP
1	D	537	MET
1	D	551	SER
1	D	556	ASP
1	D	566	ILE
1	D	572	VAL
1	D	576	ARG
1	D	582	VAL
1	D	587	SER
1	D	599	MET
1	D	622	ILE
1	D	626	ASP
1	D	628	HIS
1	D	634	LEU
1	D	690	GLU
1	D	696	ASN
1	D	717	ASN
1	D	722	THR
1	D	725	ARG
1	E	219	ASP
1	E	223	ASN
1	E	242	THR
1	E	251	THR
1	E	286	ASN
1	E	287	ARG
1	E	289	HIS
1	E	295	ARG
1	E	300	LEU
1	E	333	ILE
1	E	379	LEU
1	E	397	GLU
1	E	412	PHE
1	E	435	MET
1	E	443	LEU
1	E	449	THR

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Mol	Chain	Res	Type
1	E	458	ASN
1	E	501	PHE
1	E	504	THR
1	E	507	SER
1	E	532	ASP
1	E	537	MET
1	E	551	SER
1	E	556	ASP
1	E	566	ILE
1	E	572	VAL
1	E	576	ARG
1	E	582	VAL
1	E	587	SER
1	E	599	MET
1	E	622	ILE
1	E	626	ASP
1	E	628	HIS
1	E	634	LEU
1	E	690	GLU
1	E	691	ASN
1	E	696	ASN
1	E	722	THR
1	E	725	ARG
1	F	219	ASP
1	F	223	ASN
1	F	242	THR
1	F	251	THR
1	F	286	ASN
1	F	287	ARG
1	F	289	HIS
1	F	295	ARG
1	F	300	LEU
1	F	333	ILE
1	F	341	VAL
1	F	379	LEU
1	F	397	GLU
1	F	412	PHE
1	F	434	LEU
1	F	435	MET
1	F	443	LEU
1	F	449	THR
1	F	458	ASN

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Mol	Chain	Res	Type
1	F	501	PHE
1	F	504	THR
1	F	532	ASP
1	F	551	SER
1	F	556	ASP
1	F	566	ILE
1	F	572	VAL
1	F	576	ARG
1	F	582	VAL
1	F	587	SER
1	F	622	ILE
1	F	626	ASP
1	F	628	HIS
1	F	634	LEU
1	F	676	THR
1	F	690	GLU
1	F	691	ASN
1	F	696	ASN
1	F	722	THR
1	F	725	ARG
1	G	219	ASP
1	G	223	ASN
1	G	242	THR
1	G	251	THR
1	G	286	ASN
1	G	287	ARG
1	G	289	HIS
1	G	295	ARG
1	G	300	LEU
1	G	333	ILE
1	G	379	LEU
1	G	397	GLU
1	G	412	PHE
1	G	434	LEU
1	G	435	MET
1	G	443	LEU
1	G	449	THR
1	G	458	ASN
1	G	501	PHE
1	G	504	THR
1	G	532	ASP
1	G	537	MET

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Mol	Chain	Res	Type
1	G	551	SER
1	G	556	ASP
1	G	566	ILE
1	G	572	VAL
1	G	576	ARG
1	G	582	VAL
1	G	587	SER
1	G	599	MET
1	G	622	ILE
1	G	626	ASP
1	G	628	HIS
1	G	634	LEU
1	G	676	THR
1	G	690	GLU
1	G	691	ASN
1	G	696	ASN
1	G	722	THR
1	G	725	ARG
1	H	219	ASP
1	H	223	ASN
1	H	242	THR
1	H	251	THR
1	H	265	THR
1	H	270	ASP
1	H	286	ASN
1	H	287	ARG
1	H	289	HIS
1	H	295	ARG
1	H	300	LEU
1	H	333	ILE
1	H	379	LEU
1	H	397	GLU
1	H	412	PHE
1	H	434	LEU
1	H	435	MET
1	H	443	LEU
1	H	449	THR
1	H	458	ASN
1	H	501	PHE
1	H	504	THR
1	H	532	ASP
1	H	551	SER

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Mol	Chain	Res	Type
1	H	556	ASP
1	H	566	ILE
1	H	572	VAL
1	H	576	ARG
1	H	582	VAL
1	H	587	SER
1	H	599	MET
1	H	622	ILE
1	H	626	ASP
1	H	628	HIS
1	H	634	LEU
1	H	690	GLU
1	H	691	ASN
1	H	696	ASN
1	H	717	ASN
1	H	722	THR
1	H	725	ARG
1	I	219	ASP
1	I	223	ASN
1	I	242	THR
1	I	251	THR
1	I	270	ASP
1	I	286	ASN
1	I	287	ARG
1	I	289	HIS
1	I	295	ARG
1	I	300	LEU
1	I	333	ILE
1	I	341	VAL
1	I	379	LEU
1	I	397	GLU
1	I	412	PHE
1	I	434	LEU
1	I	435	MET
1	I	443	LEU
1	I	449	THR
1	I	458	ASN
1	I	501	PHE
1	I	504	THR
1	I	507	SER
1	I	532	ASP
1	I	537	MET

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Mol	Chain	Res	Type
1	I	551	SER
1	I	556	ASP
1	I	566	ILE
1	I	572	VAL
1	I	576	ARG
1	I	582	VAL
1	I	587	SER
1	I	599	MET
1	I	622	ILE
1	I	626	ASP
1	I	628	HIS
1	I	634	LEU
1	I	690	GLU
1	I	696	ASN
1	I	717	ASN
1	I	722	THR
1	I	725	ARG
1	J	219	ASP
1	J	223	ASN
1	J	242	THR
1	J	251	THR
1	J	265	THR
1	J	270	ASP
1	J	286	ASN
1	J	287	ARG
1	J	289	HIS
1	J	295	ARG
1	J	300	LEU
1	J	333	ILE
1	J	341	VAL
1	J	379	LEU
1	J	397	GLU
1	J	412	PHE
1	J	434	LEU
1	J	435	MET
1	J	443	LEU
1	J	449	THR
1	J	458	ASN
1	J	501	PHE
1	J	504	THR
1	J	532	ASP
1	J	551	SER

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Mol	Chain	Res	Type
1	J	556	ASP
1	J	566	ILE
1	J	572	VAL
1	J	576	ARG
1	J	582	VAL
1	J	587	SER
1	J	599	MET
1	J	622	ILE
1	J	626	ASP
1	J	628	HIS
1	J	634	LEU
1	J	690	GLU
1	J	691	ASN
1	J	696	ASN
1	J	722	THR
1	J	725	ARG
1	K	219	ASP
1	K	223	ASN
1	K	242	THR
1	K	251	THR
1	K	286	ASN
1	K	287	ARG
1	K	289	HIS
1	K	295	ARG
1	K	300	LEU
1	K	333	ILE
1	K	379	LEU
1	K	397	GLU
1	K	412	PHE
1	K	435	MET
1	K	443	LEU
1	K	449	THR
1	K	458	ASN
1	K	501	PHE
1	K	504	THR
1	K	532	ASP
1	K	551	SER
1	K	556	ASP
1	K	566	ILE
1	K	572	VAL
1	K	576	ARG
1	K	582	VAL

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Mol	Chain	Res	Type
1	K	587	SER
1	K	626	ASP
1	K	628	HIS
1	K	634	LEU
1	K	669	SER
1	K	676	THR
1	K	690	GLU
1	K	691	ASN
1	K	696	ASN
1	K	722	THR
1	K	725	ARG
1	L	219	ASP
1	L	223	ASN
1	L	242	THR
1	L	251	THR
1	L	270	ASP
1	L	286	ASN
1	L	287	ARG
1	L	289	HIS
1	L	295	ARG
1	L	300	LEU
1	L	333	ILE
1	L	379	LEU
1	L	397	GLU
1	L	412	PHE
1	L	435	MET
1	L	449	THR
1	L	458	ASN
1	L	501	PHE
1	L	504	THR
1	L	507	SER
1	L	532	ASP
1	L	551	SER
1	L	556	ASP
1	L	566	ILE
1	L	572	VAL
1	L	576	ARG
1	L	582	VAL
1	L	587	SER
1	L	599	MET
1	L	622	ILE
1	L	626	ASP

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Mol	Chain	Res	Type
1	L	628	HIS
1	L	634	LEU
1	L	690	GLU
1	L	696	ASN
1	L	700	GLN
1	L	717	ASN
1	L	722	THR
1	L	725	ARG
1	M	219	ASP
1	M	223	ASN
1	M	251	THR
1	M	270	ASP
1	M	286	ASN
1	M	287	ARG
1	M	289	HIS
1	M	295	ARG
1	M	300	LEU
1	M	333	ILE
1	M	379	LEU
1	M	397	GLU
1	M	412	PHE
1	M	434	LEU
1	M	435	MET
1	M	449	THR
1	M	458	ASN
1	M	501	PHE
1	M	504	THR
1	M	532	ASP
1	M	537	MET
1	M	551	SER
1	M	556	ASP
1	M	566	ILE
1	M	572	VAL
1	M	576	ARG
1	M	582	VAL
1	M	587	SER
1	M	599	MET
1	M	626	ASP
1	M	628	HIS
1	M	634	LEU
1	M	669	SER
1	M	676	THR

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Mol	Chain	Res	Type
1	M	690	GLU
1	M	696	ASN
1	M	717	ASN
1	M	722	THR
1	M	725	ARG
1	N	219	ASP
1	N	223	ASN
1	N	242	THR
1	N	251	THR
1	N	286	ASN
1	N	287	ARG
1	N	289	HIS
1	N	295	ARG
1	N	300	LEU
1	N	333	ILE
1	N	379	LEU
1	N	397	GLU
1	N	412	PHE
1	N	434	LEU
1	N	435	MET
1	N	449	THR
1	N	458	ASN
1	N	501	PHE
1	N	504	THR
1	N	532	ASP
1	N	551	SER
1	N	556	ASP
1	N	566	ILE
1	N	572	VAL
1	N	576	ARG
1	N	582	VAL
1	N	587	SER
1	N	599	MET
1	N	622	ILE
1	N	626	ASP
1	N	628	HIS
1	N	634	LEU
1	N	669	SER
1	N	690	GLU
1	N	696	ASN
1	N	717	ASN
1	N	722	THR

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Mol	Chain	Res	Type
1	N	725	ARG
1	O	219	ASP
1	O	223	ASN
1	O	242	THR
1	O	251	THR
1	O	265	THR
1	O	286	ASN
1	O	287	ARG
1	O	289	HIS
1	O	295	ARG
1	O	300	LEU
1	O	309	PRO
1	O	333	ILE
1	O	379	LEU
1	O	397	GLU
1	O	412	PHE
1	O	435	MET
1	O	443	LEU
1	O	449	THR
1	O	458	ASN
1	O	501	PHE
1	O	504	THR
1	O	532	ASP
1	O	537	MET
1	O	551	SER
1	O	556	ASP
1	O	572	VAL
1	O	576	ARG
1	O	582	VAL
1	O	587	SER
1	O	599	MET
1	O	622	ILE
1	O	626	ASP
1	O	628	HIS
1	O	634	LEU
1	O	669	SER
1	O	690	GLU
1	O	691	ASN
1	O	696	ASN
1	O	717	ASN
1	O	722	THR
1	O	725	ARG

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Mol	Chain	Res	Type
1	P	219	ASP
1	P	223	ASN
1	P	242	THR
1	P	251	THR
1	P	286	ASN
1	P	287	ARG
1	P	289	HIS
1	P	295	ARG
1	P	300	LEU
1	P	333	ILE
1	P	379	LEU
1	P	412	PHE
1	P	431	LEU
1	P	434	LEU
1	P	435	MET
1	P	449	THR
1	P	458	ASN
1	P	501	PHE
1	P	504	THR
1	P	507	SER
1	P	532	ASP
1	P	537	MET
1	P	551	SER
1	P	556	ASP
1	P	566	ILE
1	P	572	VAL
1	P	576	ARG
1	P	582	VAL
1	P	587	SER
1	P	599	MET
1	P	622	ILE
1	P	626	ASP
1	P	634	LEU
1	P	669	SER
1	P	676	THR
1	P	690	GLU
1	P	691	ASN
1	P	696	ASN
1	P	722	THR
1	P	725	ARG
1	Q	219	ASP
1	Q	223	ASN

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Mol	Chain	Res	Type
1	Q	251	THR
1	Q	265	THR
1	Q	270	ASP
1	Q	286	ASN
1	Q	287	ARG
1	Q	289	HIS
1	Q	295	ARG
1	Q	300	LEU
1	Q	333	ILE
1	Q	379	LEU
1	Q	397	GLU
1	Q	412	PHE
1	Q	434	LEU
1	Q	435	MET
1	Q	443	LEU
1	Q	449	THR
1	Q	458	ASN
1	Q	501	PHE
1	Q	504	THR
1	Q	532	ASP
1	Q	556	ASP
1	Q	566	ILE
1	Q	572	VAL
1	Q	576	ARG
1	Q	582	VAL
1	Q	587	SER
1	Q	599	MET
1	Q	622	ILE
1	Q	626	ASP
1	Q	628	HIS
1	Q	634	LEU
1	Q	690	GLU
1	Q	691	ASN
1	Q	696	ASN
1	Q	700	GLN
1	Q	717	ASN
1	Q	722	THR
1	Q	725	ARG
1	R	219	ASP
1	R	223	ASN
1	R	242	THR
1	R	251	THR

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Mol	Chain	Res	Type
1	R	265	THR
1	R	270	ASP
1	R	286	ASN
1	R	287	ARG
1	R	289	HIS
1	R	295	ARG
1	R	300	LEU
1	R	333	ILE
1	R	341	VAL
1	R	379	LEU
1	R	397	GLU
1	R	412	PHE
1	R	434	LEU
1	R	435	MET
1	R	443	LEU
1	R	449	THR
1	R	458	ASN
1	R	501	PHE
1	R	504	THR
1	R	532	ASP
1	R	537	MET
1	R	551	SER
1	R	556	ASP
1	R	572	VAL
1	R	576	ARG
1	R	582	VAL
1	R	587	SER
1	R	599	MET
1	R	622	ILE
1	R	626	ASP
1	R	628	HIS
1	R	634	LEU
1	R	676	THR
1	R	690	GLU
1	R	691	ASN
1	R	696	ASN
1	R	700	GLN
1	R	717	ASN
1	R	722	THR
1	R	725	ARG
1	S	219	ASP
1	S	223	ASN

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Mol	Chain	Res	Type
1	S	242	THR
1	S	251	THR
1	S	286	ASN
1	S	287	ARG
1	S	289	HIS
1	S	295	ARG
1	S	300	LEU
1	S	333	ILE
1	S	379	LEU
1	S	397	GLU
1	S	412	PHE
1	S	431	LEU
1	S	434	LEU
1	S	435	MET
1	S	443	LEU
1	S	449	THR
1	S	458	ASN
1	S	501	PHE
1	S	504	THR
1	S	532	ASP
1	S	551	SER
1	S	556	ASP
1	S	566	ILE
1	S	572	VAL
1	S	576	ARG
1	S	582	VAL
1	S	587	SER
1	S	622	ILE
1	S	626	ASP
1	S	628	HIS
1	S	634	LEU
1	S	690	GLU
1	S	691	ASN
1	S	696	ASN
1	S	700	GLN
1	S	717	ASN
1	S	722	THR
1	S	725	ARG
1	T	219	ASP
1	T	223	ASN
1	T	242	THR
1	T	251	THR

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Mol	Chain	Res	Type
1	T	286	ASN
1	T	287	ARG
1	T	289	HIS
1	T	295	ARG
1	T	300	LEU
1	T	333	ILE
1	T	379	LEU
1	T	397	GLU
1	T	412	PHE
1	T	434	LEU
1	T	435	MET
1	T	443	LEU
1	T	449	THR
1	T	458	ASN
1	T	501	PHE
1	T	504	THR
1	T	532	ASP
1	T	537	MET
1	T	551	SER
1	T	556	ASP
1	T	566	ILE
1	T	572	VAL
1	T	576	ARG
1	T	582	VAL
1	T	587	SER
1	T	599	MET
1	T	622	ILE
1	T	626	ASP
1	T	628	HIS
1	T	634	LEU
1	T	690	GLU
1	T	691	ASN
1	T	696	ASN
1	T	717	ASN
1	T	722	THR
1	T	725	ARG
1	U	219	ASP
1	U	223	ASN
1	U	242	THR
1	U	251	THR
1	U	270	ASP
1	U	286	ASN

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Mol	Chain	Res	Type
1	U	287	ARG
1	U	289	HIS
1	U	295	ARG
1	U	300	LEU
1	U	333	ILE
1	U	379	LEU
1	U	397	GLU
1	U	412	PHE
1	U	434	LEU
1	U	435	MET
1	U	443	LEU
1	U	449	THR
1	U	458	ASN
1	U	501	PHE
1	U	504	THR
1	U	532	ASP
1	U	551	SER
1	U	556	ASP
1	U	566	ILE
1	U	572	VAL
1	U	576	ARG
1	U	582	VAL
1	U	587	SER
1	U	599	MET
1	U	622	ILE
1	U	626	ASP
1	U	628	HIS
1	U	634	LEU
1	U	669	SER
1	U	690	GLU
1	U	691	ASN
1	U	696	ASN
1	U	700	GLN
1	U	717	ASN
1	U	722	THR
1	U	725	ARG
1	V	219	ASP
1	V	223	ASN
1	V	242	THR
1	V	251	THR
1	V	270	ASP
1	V	286	ASN

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Mol	Chain	Res	Type
1	V	287	ARG
1	V	289	HIS
1	V	295	ARG
1	V	300	LEU
1	V	333	ILE
1	V	341	VAL
1	V	379	LEU
1	V	397	GLU
1	V	412	PHE
1	V	434	LEU
1	V	435	MET
1	V	443	LEU
1	V	449	THR
1	V	458	ASN
1	V	501	PHE
1	V	504	THR
1	V	507	SER
1	V	532	ASP
1	V	551	SER
1	V	556	ASP
1	V	566	ILE
1	V	572	VAL
1	V	576	ARG
1	V	582	VAL
1	V	587	SER
1	V	599	MET
1	V	622	ILE
1	V	626	ASP
1	V	628	HIS
1	V	634	LEU
1	V	669	SER
1	V	690	GLU
1	V	691	ASN
1	V	696	ASN
1	V	717	ASN
1	V	722	THR
1	V	725	ARG
1	W	219	ASP
1	W	223	ASN
1	W	242	THR
1	W	251	THR
1	W	270	ASP

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Mol	Chain	Res	Type
1	W	286	ASN
1	W	287	ARG
1	W	289	HIS
1	W	295	ARG
1	W	300	LEU
1	W	333	ILE
1	W	341	VAL
1	W	379	LEU
1	W	397	GLU
1	W	412	PHE
1	W	434	LEU
1	W	435	MET
1	W	443	LEU
1	W	449	THR
1	W	458	ASN
1	W	501	PHE
1	W	504	THR
1	W	532	ASP
1	W	537	MET
1	W	551	SER
1	W	556	ASP
1	W	566	ILE
1	W	572	VAL
1	W	576	ARG
1	W	582	VAL
1	W	587	SER
1	W	622	ILE
1	W	626	ASP
1	W	628	HIS
1	W	634	LEU
1	W	669	SER
1	W	690	GLU
1	W	691	ASN
1	W	696	ASN
1	W	700	GLN
1	W	722	THR
1	W	725	ARG
1	X	219	ASP
1	X	223	ASN
1	X	242	THR
1	X	251	THR
1	X	286	ASN

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Mol	Chain	Res	Type
1	X	287	ARG
1	X	289	HIS
1	X	295	ARG
1	X	300	LEU
1	X	333	ILE
1	X	379	LEU
1	X	397	GLU
1	X	412	PHE
1	X	434	LEU
1	X	435	MET
1	X	443	LEU
1	X	449	THR
1	X	458	ASN
1	X	501	PHE
1	X	504	THR
1	X	532	ASP
1	X	551	SER
1	X	556	ASP
1	X	566	ILE
1	X	572	VAL
1	X	576	ARG
1	X	582	VAL
1	X	587	SER
1	X	599	MET
1	X	622	ILE
1	X	626	ASP
1	X	634	LEU
1	X	690	GLU
1	X	691	ASN
1	X	696	ASN
1	X	722	THR
1	X	725	ARG
1	Y	219	ASP
1	Y	223	ASN
1	Y	242	THR
1	Y	251	THR
1	Y	265	THR
1	Y	286	ASN
1	Y	287	ARG
1	Y	295	ARG
1	Y	300	LEU
1	Y	333	ILE

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Mol	Chain	Res	Type
1	Y	341	VAL
1	Y	379	LEU
1	Y	397	GLU
1	Y	412	PHE
1	Y	434	LEU
1	Y	435	MET
1	Y	443	LEU
1	Y	449	THR
1	Y	458	ASN
1	Y	501	PHE
1	Y	504	THR
1	Y	532	ASP
1	Y	551	SER
1	Y	556	ASP
1	Y	566	ILE
1	Y	572	VAL
1	Y	576	ARG
1	Y	582	VAL
1	Y	587	SER
1	Y	622	ILE
1	Y	626	ASP
1	Y	628	HIS
1	Y	634	LEU
1	Y	669	SER
1	Y	690	GLU
1	Y	696	ASN
1	Y	717	ASN
1	Y	722	THR
1	Y	725	ARG
1	Z	219	ASP
1	Z	223	ASN
1	Z	251	THR
1	Z	265	THR
1	Z	270	ASP
1	Z	286	ASN
1	Z	287	ARG
1	Z	289	HIS
1	Z	295	ARG
1	Z	300	LEU
1	Z	333	ILE
1	Z	379	LEU
1	Z	397	GLU

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Mol	Chain	Res	Type
1	Z	434	LEU
1	Z	435	MET
1	Z	443	LEU
1	Z	449	THR
1	Z	458	ASN
1	Z	501	PHE
1	Z	504	THR
1	Z	507	SER
1	Z	532	ASP
1	Z	551	SER
1	Z	556	ASP
1	Z	566	ILE
1	Z	572	VAL
1	Z	576	ARG
1	Z	582	VAL
1	Z	587	SER
1	Z	599	MET
1	Z	622	ILE
1	Z	626	ASP
1	Z	628	HIS
1	Z	634	LEU
1	Z	676	THR
1	Z	690	GLU
1	Z	696	ASN
1	Z	722	THR
1	Z	725	ARG
1	a	219	ASP
1	a	223	ASN
1	a	242	THR
1	a	251	THR
1	a	265	THR
1	a	286	ASN
1	a	287	ARG
1	a	289	HIS
1	a	295	ARG
1	a	300	LEU
1	a	333	ILE
1	a	379	LEU
1	a	412	PHE
1	a	435	MET
1	a	443	LEU
1	a	449	THR

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Mol	Chain	Res	Type
1	a	458	ASN
1	a	501	PHE
1	a	504	THR
1	a	532	ASP
1	a	551	SER
1	a	556	ASP
1	a	566	ILE
1	a	572	VAL
1	a	576	ARG
1	a	582	VAL
1	a	587	SER
1	a	599	MET
1	a	622	ILE
1	a	626	ASP
1	a	628	HIS
1	a	634	LEU
1	a	669	SER
1	a	690	GLU
1	a	691	ASN
1	a	696	ASN
1	a	722	THR
1	a	725	ARG
1	b	219	ASP
1	b	223	ASN
1	b	251	THR
1	b	270	ASP
1	b	286	ASN
1	b	287	ARG
1	b	289	HIS
1	b	295	ARG
1	b	300	LEU
1	b	309	PRO
1	b	333	ILE
1	b	341	VAL
1	b	379	LEU
1	b	397	GLU
1	b	412	PHE
1	b	434	LEU
1	b	435	MET
1	b	443	LEU
1	b	449	THR
1	b	458	ASN

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Mol	Chain	Res	Type
1	b	501	PHE
1	b	504	THR
1	b	532	ASP
1	b	551	SER
1	b	556	ASP
1	b	566	ILE
1	b	572	VAL
1	b	576	ARG
1	b	582	VAL
1	b	587	SER
1	b	599	MET
1	b	622	ILE
1	b	626	ASP
1	b	628	HIS
1	b	634	LEU
1	b	669	SER
1	b	676	THR
1	b	690	GLU
1	b	691	ASN
1	b	696	ASN
1	b	722	THR
1	b	725	ARG
1	c	219	ASP
1	c	223	ASN
1	c	242	THR
1	c	251	THR
1	c	286	ASN
1	c	287	ARG
1	c	289	HIS
1	c	295	ARG
1	c	300	LEU
1	c	333	ILE
1	c	379	LEU
1	c	397	GLU
1	c	412	PHE
1	c	431	LEU
1	c	434	LEU
1	c	435	MET
1	c	443	LEU
1	c	449	THR
1	c	458	ASN
1	c	501	PHE

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Mol	Chain	Res	Type
1	c	504	THR
1	c	507	SER
1	c	532	ASP
1	c	537	MET
1	c	551	SER
1	c	556	ASP
1	c	566	ILE
1	c	572	VAL
1	c	576	ARG
1	c	582	VAL
1	c	587	SER
1	c	599	MET
1	c	622	ILE
1	c	626	ASP
1	c	628	HIS
1	c	634	LEU
1	c	669	SER
1	c	676	THR
1	c	690	GLU
1	c	691	ASN
1	c	696	ASN
1	c	717	ASN
1	c	722	THR
1	c	725	ARG
1	d	219	ASP
1	d	223	ASN
1	d	242	THR
1	d	251	THR
1	d	286	ASN
1	d	287	ARG
1	d	289	HIS
1	d	295	ARG
1	d	300	LEU
1	d	333	ILE
1	d	379	LEU
1	d	397	GLU
1	d	412	PHE
1	d	435	MET
1	d	443	LEU
1	d	449	THR
1	d	458	ASN
1	d	501	PHE

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Mol	Chain	Res	Type
1	d	504	THR
1	d	532	ASP
1	d	537	MET
1	d	551	SER
1	d	556	ASP
1	d	566	ILE
1	d	572	VAL
1	d	576	ARG
1	d	582	VAL
1	d	587	SER
1	d	599	MET
1	d	622	ILE
1	d	626	ASP
1	d	628	HIS
1	d	634	LEU
1	d	676	THR
1	d	690	GLU
1	d	691	ASN
1	d	696	ASN
1	d	722	THR
1	d	725	ARG
1	e	219	ASP
1	e	223	ASN
1	e	242	THR
1	e	251	THR
1	e	286	ASN
1	e	287	ARG
1	e	289	HIS
1	e	295	ARG
1	e	300	LEU
1	e	333	ILE
1	e	379	LEU
1	e	397	GLU
1	e	412	PHE
1	e	434	LEU
1	e	435	MET
1	e	443	LEU
1	e	449	THR
1	e	458	ASN
1	e	501	PHE
1	e	504	THR
1	e	532	ASP

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Mol	Chain	Res	Type
1	e	551	SER
1	e	556	ASP
1	e	557	ASN
1	e	566	ILE
1	e	572	VAL
1	e	576	ARG
1	e	582	VAL
1	e	587	SER
1	e	599	MET
1	e	622	ILE
1	e	626	ASP
1	e	628	HIS
1	e	634	LEU
1	e	669	SER
1	e	676	THR
1	e	690	GLU
1	e	691	ASN
1	e	696	ASN
1	e	717	ASN
1	e	722	THR
1	e	725	ARG
1	f	219	ASP
1	f	223	ASN
1	f	242	THR
1	f	251	THR
1	f	286	ASN
1	f	287	ARG
1	f	289	HIS
1	f	295	ARG
1	f	300	LEU
1	f	333	ILE
1	f	379	LEU
1	f	397	GLU
1	f	412	PHE
1	f	434	LEU
1	f	435	MET
1	f	443	LEU
1	f	449	THR
1	f	458	ASN
1	f	501	PHE
1	f	504	THR
1	f	532	ASP

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Mol	Chain	Res	Type
1	f	551	SER
1	f	556	ASP
1	f	566	ILE
1	f	572	VAL
1	f	576	ARG
1	f	582	VAL
1	f	587	SER
1	f	626	ASP
1	f	628	HIS
1	f	634	LEU
1	f	676	THR
1	f	690	GLU
1	f	691	ASN
1	f	696	ASN
1	f	722	THR
1	f	725	ARG
1	g	219	ASP
1	g	223	ASN
1	g	242	THR
1	g	251	THR
1	g	270	ASP
1	g	286	ASN
1	g	287	ARG
1	g	289	HIS
1	g	295	ARG
1	g	300	LEU
1	g	333	ILE
1	g	341	VAL
1	g	379	LEU
1	g	397	GLU
1	g	434	LEU
1	g	435	MET
1	g	443	LEU
1	g	449	THR
1	g	458	ASN
1	g	501	PHE
1	g	504	THR
1	g	532	ASP
1	g	537	MET
1	g	551	SER
1	g	556	ASP
1	g	566	ILE

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Mol	Chain	Res	Type
1	g	572	VAL
1	g	576	ARG
1	g	582	VAL
1	g	587	SER
1	g	622	ILE
1	g	626	ASP
1	g	628	HIS
1	g	634	LEU
1	g	669	SER
1	g	690	GLU
1	g	691	ASN
1	g	696	ASN
1	g	722	THR
1	g	725	ARG
1	h	219	ASP
1	h	223	ASN
1	h	242	THR
1	h	251	THR
1	h	286	ASN
1	h	287	ARG
1	h	289	HIS
1	h	295	ARG
1	h	300	LEU
1	h	333	ILE
1	h	379	LEU
1	h	412	PHE
1	h	435	MET
1	h	443	LEU
1	h	449	THR
1	h	458	ASN
1	h	501	PHE
1	h	504	THR
1	h	532	ASP
1	h	551	SER
1	h	556	ASP
1	h	566	ILE
1	h	572	VAL
1	h	576	ARG
1	h	582	VAL
1	h	587	SER
1	h	622	ILE
1	h	626	ASP

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Mol	Chain	Res	Type
1	h	628	HIS
1	h	634	LEU
1	h	669	SER
1	h	676	THR
1	h	690	GLU
1	h	691	ASN
1	h	696	ASN
1	h	722	THR
1	h	725	ARG
1	i	219	ASP
1	i	223	ASN
1	i	242	THR
1	i	251	THR
1	i	265	THR
1	i	270	ASP
1	i	286	ASN
1	i	287	ARG
1	i	289	HIS
1	i	295	ARG
1	i	300	LEU
1	i	333	ILE
1	i	379	LEU
1	i	397	GLU
1	i	412	PHE
1	i	435	MET
1	i	443	LEU
1	i	449	THR
1	i	458	ASN
1	i	501	PHE
1	i	504	THR
1	i	532	ASP
1	i	551	SER
1	i	556	ASP
1	i	566	ILE
1	i	572	VAL
1	i	576	ARG
1	i	582	VAL
1	i	587	SER
1	i	589	THR
1	i	599	MET
1	i	622	ILE
1	i	626	ASP

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Mol	Chain	Res	Type
1	i	628	HIS
1	i	634	LEU
1	i	676	THR
1	i	690	GLU
1	i	691	ASN
1	i	696	ASN
1	i	717	ASN
1	i	722	THR
1	i	725	ARG
1	j	219	ASP
1	j	223	ASN
1	j	242	THR
1	j	251	THR
1	j	286	ASN
1	j	287	ARG
1	j	289	HIS
1	j	295	ARG
1	j	300	LEU
1	j	333	ILE
1	j	341	VAL
1	j	379	LEU
1	j	397	GLU
1	j	412	PHE
1	j	431	LEU
1	j	434	LEU
1	j	435	MET
1	j	443	LEU
1	j	449	THR
1	j	458	ASN
1	j	501	PHE
1	j	504	THR
1	j	532	ASP
1	j	551	SER
1	j	556	ASP
1	j	566	ILE
1	j	572	VAL
1	j	576	ARG
1	j	582	VAL
1	j	587	SER
1	j	599	MET
1	j	622	ILE
1	j	626	ASP

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Mol	Chain	Res	Type
1	j	628	HIS
1	j	634	LEU
1	j	676	THR
1	j	690	GLU
1	j	696	ASN
1	j	722	THR
1	j	725	ARG
1	k	219	ASP
1	k	223	ASN
1	k	242	THR
1	k	251	THR
1	k	270	ASP
1	k	286	ASN
1	k	287	ARG
1	k	295	ARG
1	k	300	LEU
1	k	333	ILE
1	k	341	VAL
1	k	379	LEU
1	k	397	GLU
1	k	412	PHE
1	k	431	LEU
1	k	434	LEU
1	k	435	MET
1	k	443	LEU
1	k	449	THR
1	k	458	ASN
1	k	501	PHE
1	k	504	THR
1	k	507	SER
1	k	532	ASP
1	k	551	SER
1	k	556	ASP
1	k	566	ILE
1	k	572	VAL
1	k	576	ARG
1	k	582	VAL
1	k	587	SER
1	k	599	MET
1	k	622	ILE
1	k	626	ASP
1	k	628	HIS

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Mol	Chain	Res	Type
1	k	634	LEU
1	k	676	THR
1	k	690	GLU
1	k	691	ASN
1	k	696	ASN
1	k	700	GLN
1	k	717	ASN
1	k	722	THR
1	k	725	ARG
1	l	219	ASP
1	l	223	ASN
1	l	251	THR
1	l	265	THR
1	l	270	ASP
1	l	286	ASN
1	l	287	ARG
1	l	289	HIS
1	l	295	ARG
1	l	300	LEU
1	l	309	PRO
1	l	333	ILE
1	l	379	LEU
1	l	397	GLU
1	l	412	PHE
1	l	434	LEU
1	l	435	MET
1	l	449	THR
1	l	458	ASN
1	l	501	PHE
1	l	504	THR
1	l	507	SER
1	l	532	ASP
1	l	551	SER
1	l	556	ASP
1	l	566	ILE
1	l	572	VAL
1	l	576	ARG
1	l	582	VAL
1	l	587	SER
1	l	599	MET
1	l	622	ILE
1	l	626	ASP

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Mol	Chain	Res	Type
1	l	628	HIS
1	l	634	LEU
1	l	690	GLU
1	l	696	ASN
1	l	722	THR
1	l	725	ARG
1	m	219	ASP
1	m	223	ASN
1	m	242	THR
1	m	251	THR
1	m	286	ASN
1	m	287	ARG
1	m	289	HIS
1	m	295	ARG
1	m	300	LEU
1	m	333	ILE
1	m	379	LEU
1	m	397	GLU
1	m	412	PHE
1	m	434	LEU
1	m	435	MET
1	m	449	THR
1	m	458	ASN
1	m	501	PHE
1	m	504	THR
1	m	532	ASP
1	m	551	SER
1	m	556	ASP
1	m	566	ILE
1	m	572	VAL
1	m	576	ARG
1	m	582	VAL
1	m	587	SER
1	m	622	ILE
1	m	626	ASP
1	m	628	HIS
1	m	634	LEU
1	m	669	SER
1	m	676	THR
1	m	690	GLU
1	m	696	ASN
1	m	717	ASN

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Mol	Chain	Res	Type
1	m	722	THR
1	m	725	ARG
1	n	219	ASP
1	n	223	ASN
1	n	243	SER
1	n	251	THR
1	n	265	THR
1	n	286	ASN
1	n	287	ARG
1	n	289	HIS
1	n	295	ARG
1	n	300	LEU
1	n	333	ILE
1	n	379	LEU
1	n	397	GLU
1	n	412	PHE
1	n	431	LEU
1	n	434	LEU
1	n	435	MET
1	n	443	LEU
1	n	449	THR
1	n	458	ASN
1	n	501	PHE
1	n	504	THR
1	n	532	ASP
1	n	551	SER
1	n	556	ASP
1	n	566	ILE
1	n	572	VAL
1	n	576	ARG
1	n	582	VAL
1	n	587	SER
1	n	599	MET
1	n	622	ILE
1	n	626	ASP
1	n	628	HIS
1	n	634	LEU
1	n	676	THR
1	n	690	GLU
1	n	696	ASN
1	n	717	ASN
1	n	722	THR

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Mol	Chain	Res	Type
1	n	725	ARG
1	o	219	ASP
1	o	223	ASN
1	o	242	THR
1	o	251	THR
1	o	265	THR
1	o	270	ASP
1	o	286	ASN
1	o	287	ARG
1	o	289	HIS
1	o	295	ARG
1	o	300	LEU
1	o	333	ILE
1	o	341	VAL
1	o	379	LEU
1	o	397	GLU
1	o	412	PHE
1	o	435	MET
1	o	449	THR
1	o	458	ASN
1	o	501	PHE
1	o	504	THR
1	o	507	SER
1	o	532	ASP
1	o	551	SER
1	o	556	ASP
1	o	566	ILE
1	o	572	VAL
1	o	576	ARG
1	o	582	VAL
1	o	587	SER
1	o	599	MET
1	o	622	ILE
1	o	626	ASP
1	o	628	HIS
1	o	634	LEU
1	o	690	GLU
1	o	691	ASN
1	o	696	ASN
1	o	722	THR
1	o	725	ARG
1	p	219	ASP

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Mol	Chain	Res	Type
1	p	223	ASN
1	p	242	THR
1	p	251	THR
1	p	286	ASN
1	p	287	ARG
1	p	289	HIS
1	p	295	ARG
1	p	300	LEU
1	p	333	ILE
1	p	379	LEU
1	p	397	GLU
1	p	412	PHE
1	p	435	MET
1	p	449	THR
1	p	458	ASN
1	p	501	PHE
1	p	504	THR
1	p	507	SER
1	p	532	ASP
1	p	551	SER
1	p	556	ASP
1	p	566	ILE
1	p	572	VAL
1	p	576	ARG
1	p	582	VAL
1	p	587	SER
1	p	599	MET
1	p	622	ILE
1	p	626	ASP
1	p	628	HIS
1	p	634	LEU
1	p	690	GLU
1	p	691	ASN
1	p	696	ASN
1	p	722	THR
1	p	725	ARG
1	q	219	ASP
1	q	223	ASN
1	q	242	THR
1	q	251	THR
1	q	265	THR
1	q	270	ASP

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Mol	Chain	Res	Type
1	q	286	ASN
1	q	287	ARG
1	q	289	HIS
1	q	295	ARG
1	q	300	LEU
1	q	333	ILE
1	q	341	VAL
1	q	379	LEU
1	q	397	GLU
1	q	412	PHE
1	q	434	LEU
1	q	435	MET
1	q	443	LEU
1	q	449	THR
1	q	458	ASN
1	q	501	PHE
1	q	504	THR
1	q	532	ASP
1	q	551	SER
1	q	556	ASP
1	q	566	ILE
1	q	572	VAL
1	q	576	ARG
1	q	582	VAL
1	q	587	SER
1	q	589	THR
1	q	599	MET
1	q	622	ILE
1	q	626	ASP
1	q	628	HIS
1	q	634	LEU
1	q	669	SER
1	q	690	GLU
1	q	691	ASN
1	q	696	ASN
1	q	717	ASN
1	q	722	THR
1	q	725	ARG
1	r	219	ASP
1	r	223	ASN
1	r	242	THR
1	r	251	THR

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Mol	Chain	Res	Type
1	r	286	ASN
1	r	287	ARG
1	r	289	HIS
1	r	295	ARG
1	r	300	LEU
1	r	333	ILE
1	r	379	LEU
1	r	397	GLU
1	r	412	PHE
1	r	434	LEU
1	r	435	MET
1	r	443	LEU
1	r	449	THR
1	r	458	ASN
1	r	501	PHE
1	r	504	THR
1	r	532	ASP
1	r	551	SER
1	r	556	ASP
1	r	566	ILE
1	r	572	VAL
1	r	576	ARG
1	r	582	VAL
1	r	587	SER
1	r	599	MET
1	r	622	ILE
1	r	626	ASP
1	r	628	HIS
1	r	634	LEU
1	r	669	SER
1	r	676	THR
1	r	690	GLU
1	r	691	ASN
1	r	696	ASN
1	r	700	GLN
1	r	722	THR
1	r	725	ARG
1	s	219	ASP
1	s	223	ASN
1	s	242	THR
1	s	251	THR
1	s	286	ASN

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Mol	Chain	Res	Type
1	s	287	ARG
1	s	289	HIS
1	s	295	ARG
1	s	300	LEU
1	s	333	ILE
1	s	379	LEU
1	s	397	GLU
1	s	412	PHE
1	s	434	LEU
1	s	435	MET
1	s	443	LEU
1	s	449	THR
1	s	458	ASN
1	s	501	PHE
1	s	504	THR
1	s	532	ASP
1	s	551	SER
1	s	556	ASP
1	s	566	ILE
1	s	572	VAL
1	s	576	ARG
1	s	582	VAL
1	s	587	SER
1	s	622	ILE
1	s	626	ASP
1	s	628	HIS
1	s	634	LEU
1	s	676	THR
1	s	690	GLU
1	s	691	ASN
1	s	696	ASN
1	s	717	ASN
1	s	722	THR
1	s	725	ARG
1	t	219	ASP
1	t	223	ASN
1	t	242	THR
1	t	251	THR
1	t	265	THR
1	t	286	ASN
1	t	287	ARG
1	t	289	HIS

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Mol	Chain	Res	Type
1	t	295	ARG
1	t	300	LEU
1	t	333	ILE
1	t	379	LEU
1	t	397	GLU
1	t	412	PHE
1	t	435	MET
1	t	443	LEU
1	t	449	THR
1	t	458	ASN
1	t	501	PHE
1	t	504	THR
1	t	532	ASP
1	t	551	SER
1	t	556	ASP
1	t	566	ILE
1	t	572	VAL
1	t	576	ARG
1	t	582	VAL
1	t	587	SER
1	t	622	ILE
1	t	626	ASP
1	t	628	HIS
1	t	634	LEU
1	t	669	SER
1	t	690	GLU
1	t	696	ASN
1	t	722	THR
1	t	725	ARG
1	u	219	ASP
1	u	223	ASN
1	u	251	THR
1	u	286	ASN
1	u	287	ARG
1	u	289	HIS
1	u	295	ARG
1	u	300	LEU
1	u	333	ILE
1	u	379	LEU
1	u	397	GLU
1	u	412	PHE
1	u	434	LEU

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Mol	Chain	Res	Type
1	u	435	MET
1	u	443	LEU
1	u	449	THR
1	u	458	ASN
1	u	501	PHE
1	u	504	THR
1	u	532	ASP
1	u	551	SER
1	u	556	ASP
1	u	566	ILE
1	u	572	VAL
1	u	576	ARG
1	u	582	VAL
1	u	587	SER
1	u	599	MET
1	u	622	ILE
1	u	626	ASP
1	u	628	HIS
1	u	634	LEU
1	u	669	SER
1	u	676	THR
1	u	690	GLU
1	u	691	ASN
1	u	696	ASN
1	u	717	ASN
1	u	722	THR
1	u	725	ARG
1	v	219	ASP
1	v	223	ASN
1	v	242	THR
1	v	251	THR
1	v	286	ASN
1	v	287	ARG
1	v	289	HIS
1	v	295	ARG
1	v	300	LEU
1	v	333	ILE
1	v	379	LEU
1	v	397	GLU
1	v	412	PHE
1	v	435	MET
1	v	443	LEU

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Mol	Chain	Res	Type
1	v	449	THR
1	v	458	ASN
1	v	501	PHE
1	v	504	THR
1	v	532	ASP
1	v	537	MET
1	v	551	SER
1	v	556	ASP
1	v	566	ILE
1	v	572	VAL
1	v	576	ARG
1	v	582	VAL
1	v	587	SER
1	v	599	MET
1	v	622	ILE
1	v	626	ASP
1	v	628	HIS
1	v	634	LEU
1	v	669	SER
1	v	676	THR
1	v	690	GLU
1	v	691	ASN
1	v	696	ASN
1	v	722	THR
1	v	725	ARG
1	w	219	ASP
1	w	223	ASN
1	w	251	THR
1	w	286	ASN
1	w	287	ARG
1	w	289	HIS
1	w	295	ARG
1	w	300	LEU
1	w	333	ILE
1	w	379	LEU
1	w	397	GLU
1	w	412	PHE
1	w	434	LEU
1	w	435	MET
1	w	443	LEU
1	w	449	THR
1	w	458	ASN

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Mol	Chain	Res	Type
1	w	501	PHE
1	w	504	THR
1	w	532	ASP
1	w	551	SER
1	w	556	ASP
1	w	566	ILE
1	w	572	VAL
1	w	576	ARG
1	w	582	VAL
1	w	584	LEU
1	w	587	SER
1	w	599	MET
1	w	622	ILE
1	w	626	ASP
1	w	628	HIS
1	w	634	LEU
1	w	669	SER
1	w	676	THR
1	w	690	GLU
1	w	696	ASN
1	w	717	ASN
1	w	722	THR
1	w	725	ARG
1	x	219	ASP
1	x	223	ASN
1	x	251	THR
1	x	286	ASN
1	x	287	ARG
1	x	289	HIS
1	x	295	ARG
1	x	300	LEU
1	x	333	ILE
1	x	379	LEU
1	x	397	GLU
1	x	412	PHE
1	x	434	LEU
1	x	435	MET
1	x	449	THR
1	x	458	ASN
1	x	501	PHE
1	x	504	THR
1	x	532	ASP

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Mol	Chain	Res	Type
1	x	537	MET
1	x	551	SER
1	x	556	ASP
1	x	572	VAL
1	x	576	ARG
1	x	582	VAL
1	x	587	SER
1	x	599	MET
1	x	622	ILE
1	x	626	ASP
1	x	628	HIS
1	x	634	LEU
1	x	669	SER
1	x	676	THR
1	x	690	GLU
1	x	696	ASN
1	x	722	THR
1	x	725	ARG
1	y	219	ASP
1	y	223	ASN
1	y	242	THR
1	y	251	THR
1	y	286	ASN
1	y	287	ARG
1	y	289	HIS
1	y	295	ARG
1	y	300	LEU
1	y	333	ILE
1	y	379	LEU
1	y	397	GLU
1	y	412	PHE
1	y	435	MET
1	y	443	LEU
1	y	449	THR
1	y	458	ASN
1	y	464	SER
1	y	501	PHE
1	y	504	THR
1	y	532	ASP
1	y	551	SER
1	y	556	ASP
1	y	566	ILE

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Mol	Chain	Res	Type
1	y	572	VAL
1	y	576	ARG
1	y	582	VAL
1	y	587	SER
1	y	599	MET
1	y	622	ILE
1	y	626	ASP
1	y	628	HIS
1	y	634	LEU
1	y	690	GLU
1	y	691	ASN
1	y	696	ASN
1	y	700	GLN
1	y	722	THR
1	y	725	ARG
1	z	219	ASP
1	z	223	ASN
1	z	242	THR
1	z	251	THR
1	z	270	ASP
1	z	286	ASN
1	z	287	ARG
1	z	289	HIS
1	z	295	ARG
1	z	300	LEU
1	z	333	ILE
1	z	341	VAL
1	z	379	LEU
1	z	397	GLU
1	z	412	PHE
1	z	431	LEU
1	z	434	LEU
1	z	435	MET
1	z	449	THR
1	z	458	ASN
1	z	501	PHE
1	z	504	THR
1	z	532	ASP
1	z	537	MET
1	z	551	SER
1	z	556	ASP
1	z	566	ILE

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Mol	Chain	Res	Type
1	z	572	VAL
1	z	576	ARG
1	z	582	VAL
1	z	587	SER
1	z	599	MET
1	z	622	ILE
1	z	626	ASP
1	z	628	HIS
1	z	634	LEU
1	z	669	SER
1	z	690	GLU
1	z	691	ASN
1	z	696	ASN
1	z	717	ASN
1	z	722	THR
1	z	725	ARG
1	0	219	ASP
1	0	223	ASN
1	0	242	THR
1	0	251	THR
1	0	286	ASN
1	0	287	ARG
1	0	289	HIS
1	0	295	ARG
1	0	300	LEU
1	0	333	ILE
1	0	379	LEU
1	0	397	GLU
1	0	412	PHE
1	0	431	LEU
1	0	434	LEU
1	0	435	MET
1	0	449	THR
1	0	458	ASN
1	0	501	PHE
1	0	504	THR
1	0	532	ASP
1	0	551	SER
1	0	556	ASP
1	0	566	ILE
1	0	572	VAL
1	0	576	ARG

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Mol	Chain	Res	Type
1	0	582	VAL
1	0	587	SER
1	0	599	MET
1	0	622	ILE
1	0	626	ASP
1	0	628	HIS
1	0	634	LEU
1	0	669	SER
1	0	676	THR
1	0	690	GLU
1	0	691	ASN
1	0	696	ASN
1	0	722	THR
1	0	725	ARG
1	1	219	ASP
1	1	223	ASN
1	1	251	THR
1	1	265	THR
1	1	286	ASN
1	1	287	ARG
1	1	289	HIS
1	1	295	ARG
1	1	300	LEU
1	1	333	ILE
1	1	379	LEU
1	1	397	GLU
1	1	412	PHE
1	1	434	LEU
1	1	435	MET
1	1	443	LEU
1	1	449	THR
1	1	458	ASN
1	1	501	PHE
1	1	504	THR
1	1	532	ASP
1	1	537	MET
1	1	551	SER
1	1	556	ASP
1	1	566	ILE
1	1	572	VAL
1	1	576	ARG
1	1	582	VAL

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Mol	Chain	Res	Type
1	1	587	SER
1	1	589	THR
1	1	599	MET
1	1	622	ILE
1	1	626	ASP
1	1	628	HIS
1	1	634	LEU
1	1	690	GLU
1	1	696	ASN
1	1	717	ASN
1	1	722	THR
1	1	725	ARG
1	2	219	ASP
1	2	223	ASN
1	2	251	THR
1	2	270	ASP
1	2	286	ASN
1	2	287	ARG
1	2	295	ARG
1	2	300	LEU
1	2	333	ILE
1	2	341	VAL
1	2	379	LEU
1	2	397	GLU
1	2	412	PHE
1	2	434	LEU
1	2	435	MET
1	2	449	THR
1	2	458	ASN
1	2	501	PHE
1	2	504	THR
1	2	532	ASP
1	2	537	MET
1	2	551	SER
1	2	556	ASP
1	2	566	ILE
1	2	572	VAL
1	2	576	ARG
1	2	582	VAL
1	2	587	SER
1	2	599	MET
1	2	626	ASP

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Mol	Chain	Res	Type
1	2	628	HIS
1	2	634	LEU
1	2	669	SER
1	2	690	GLU
1	2	691	ASN
1	2	696	ASN
1	2	722	THR
1	2	725	ARG
1	3	219	ASP
1	3	223	ASN
1	3	242	THR
1	3	251	THR
1	3	286	ASN
1	3	287	ARG
1	3	289	HIS
1	3	295	ARG
1	3	300	LEU
1	3	333	ILE
1	3	379	LEU
1	3	397	GLU
1	3	412	PHE
1	3	431	LEU
1	3	435	MET
1	3	443	LEU
1	3	449	THR
1	3	458	ASN
1	3	501	PHE
1	3	504	THR
1	3	532	ASP
1	3	551	SER
1	3	556	ASP
1	3	566	ILE
1	3	572	VAL
1	3	576	ARG
1	3	582	VAL
1	3	587	SER
1	3	599	MET
1	3	622	ILE
1	3	626	ASP
1	3	628	HIS
1	3	634	LEU
1	3	669	SER

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Mol	Chain	Res	Type
1	3	690	GLU
1	3	691	ASN
1	3	696	ASN
1	3	717	ASN
1	3	722	THR
1	3	725	ARG
1	4	219	ASP
1	4	223	ASN
1	4	242	THR
1	4	251	THR
1	4	286	ASN
1	4	287	ARG
1	4	289	HIS
1	4	295	ARG
1	4	300	LEU
1	4	309	PRO
1	4	333	ILE
1	4	379	LEU
1	4	397	GLU
1	4	412	PHE
1	4	434	LEU
1	4	435	MET
1	4	443	LEU
1	4	449	THR
1	4	458	ASN
1	4	501	PHE
1	4	504	THR
1	4	532	ASP
1	4	551	SER
1	4	556	ASP
1	4	566	ILE
1	4	572	VAL
1	4	576	ARG
1	4	582	VAL
1	4	587	SER
1	4	622	ILE
1	4	626	ASP
1	4	628	HIS
1	4	634	LEU
1	4	669	SER
1	4	690	GLU
1	4	691	ASN

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Mol	Chain	Res	Type
1	4	696	ASN
1	4	722	THR
1	4	725	ARG
1	5	219	ASP
1	5	223	ASN
1	5	242	THR
1	5	251	THR
1	5	270	ASP
1	5	286	ASN
1	5	287	ARG
1	5	289	HIS
1	5	295	ARG
1	5	300	LEU
1	5	333	ILE
1	5	341	VAL
1	5	379	LEU
1	5	397	GLU
1	5	412	PHE
1	5	434	LEU
1	5	435	MET
1	5	443	LEU
1	5	449	THR
1	5	458	ASN
1	5	501	PHE
1	5	504	THR
1	5	507	SER
1	5	532	ASP
1	5	551	SER
1	5	556	ASP
1	5	566	ILE
1	5	572	VAL
1	5	576	ARG
1	5	582	VAL
1	5	587	SER
1	5	599	MET
1	5	622	ILE
1	5	626	ASP
1	5	628	HIS
1	5	634	LEU
1	5	690	GLU
1	5	696	ASN
1	5	717	ASN

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Mol	Chain	Res	Type
1	5	722	THR
1	5	725	ARG
1	6	219	ASP
1	6	223	ASN
1	6	251	THR
1	6	270	ASP
1	6	286	ASN
1	6	287	ARG
1	6	289	HIS
1	6	295	ARG
1	6	300	LEU
1	6	333	ILE
1	6	379	LEU
1	6	397	GLU
1	6	412	PHE
1	6	434	LEU
1	6	435	MET
1	6	449	THR
1	6	458	ASN
1	6	501	PHE
1	6	504	THR
1	6	532	ASP
1	6	551	SER
1	6	556	ASP
1	6	566	ILE
1	6	572	VAL
1	6	576	ARG
1	6	582	VAL
1	6	587	SER
1	6	599	MET
1	6	626	ASP
1	6	628	HIS
1	6	634	LEU
1	6	676	THR
1	6	690	GLU
1	6	691	ASN
1	6	696	ASN
1	6	717	ASN
1	6	722	THR
1	6	725	ARG
1	7	219	ASP
1	7	223	ASN

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Mol	Chain	Res	Type
1	7	242	THR
1	7	251	THR
1	7	286	ASN
1	7	287	ARG
1	7	289	HIS
1	7	295	ARG
1	7	300	LEU
1	7	333	ILE
1	7	379	LEU
1	7	397	GLU
1	7	412	PHE
1	7	431	LEU
1	7	435	MET
1	7	449	THR
1	7	458	ASN
1	7	501	PHE
1	7	504	THR
1	7	507	SER
1	7	532	ASP
1	7	551	SER
1	7	556	ASP
1	7	566	ILE
1	7	572	VAL
1	7	576	ARG
1	7	582	VAL
1	7	587	SER
1	7	599	MET
1	7	622	ILE
1	7	626	ASP
1	7	628	HIS
1	7	634	LEU
1	7	669	SER
1	7	690	GLU
1	7	696	ASN
1	7	700	GLN
1	7	717	ASN
1	7	722	THR
1	7	725	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1634) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	253	ASN
1	A	255	HIS
1	A	259	GLN
1	A	272	HIS
1	A	286	ASN
1	A	302	ASN
1	A	320	GLN
1	A	335	ASN
1	A	375	GLN
1	A	382	ASN
1	A	383	ASN
1	A	386	GLN
1	A	408	ASN
1	A	458	ASN
1	A	486	GLN
1	A	487	GLN
1	A	497	ASN
1	A	498	ASN
1	A	512	ASN
1	A	519	ASN
1	A	557	ASN
1	A	608	GLN
1	A	624	HIS
1	A	630	HIS
1	A	691	ASN
1	A	696	ASN
1	A	717	ASN
1	B	253	ASN
1	B	255	HIS
1	B	259	GLN
1	B	272	HIS
1	B	286	ASN
1	B	302	ASN
1	B	320	GLN
1	B	335	ASN
1	B	350	GLN
1	B	360	GLN
1	B	375	GLN
1	B	382	ASN
1	B	386	GLN
1	B	408	ASN
1	B	458	ASN
1	B	486	GLN

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Mol	Chain	Res	Type
1	B	487	GLN
1	B	497	ASN
1	B	498	ASN
1	B	512	ASN
1	B	519	ASN
1	B	557	ASN
1	B	608	GLN
1	B	624	HIS
1	B	630	HIS
1	B	691	ASN
1	B	696	ASN
1	B	717	ASN
1	C	253	ASN
1	C	255	HIS
1	C	259	GLN
1	C	272	HIS
1	C	286	ASN
1	C	302	ASN
1	C	320	GLN
1	C	335	ASN
1	C	360	GLN
1	C	375	GLN
1	C	382	ASN
1	C	383	ASN
1	C	386	GLN
1	C	408	ASN
1	C	458	ASN
1	C	486	GLN
1	C	487	GLN
1	C	497	ASN
1	C	498	ASN
1	C	512	ASN
1	C	519	ASN
1	C	557	ASN
1	C	608	GLN
1	C	624	HIS
1	C	630	HIS
1	C	691	ASN
1	C	696	ASN
1	C	717	ASN
1	D	255	HIS
1	D	259	GLN

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Mol	Chain	Res	Type
1	D	272	HIS
1	D	286	ASN
1	D	302	ASN
1	D	320	GLN
1	D	335	ASN
1	D	350	GLN
1	D	375	GLN
1	D	382	ASN
1	D	386	GLN
1	D	408	ASN
1	D	458	ASN
1	D	486	GLN
1	D	487	GLN
1	D	497	ASN
1	D	498	ASN
1	D	512	ASN
1	D	519	ASN
1	D	557	ASN
1	D	608	GLN
1	D	624	HIS
1	D	630	HIS
1	D	691	ASN
1	D	696	ASN
1	D	717	ASN
1	E	255	HIS
1	E	259	GLN
1	E	272	HIS
1	E	286	ASN
1	E	302	ASN
1	E	320	GLN
1	E	335	ASN
1	E	382	ASN
1	E	383	ASN
1	E	386	GLN
1	E	408	ASN
1	E	427	HIS
1	E	458	ASN
1	E	486	GLN
1	E	487	GLN
1	E	497	ASN
1	E	498	ASN
1	E	512	ASN

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Mol	Chain	Res	Type
1	E	519	ASN
1	E	557	ASN
1	E	608	GLN
1	E	624	HIS
1	E	630	HIS
1	E	691	ASN
1	E	696	ASN
1	E	717	ASN
1	F	253	ASN
1	F	255	HIS
1	F	259	GLN
1	F	272	HIS
1	F	286	ASN
1	F	302	ASN
1	F	320	GLN
1	F	335	ASN
1	F	375	GLN
1	F	382	ASN
1	F	386	GLN
1	F	408	ASN
1	F	427	HIS
1	F	458	ASN
1	F	486	GLN
1	F	487	GLN
1	F	497	ASN
1	F	498	ASN
1	F	512	ASN
1	F	519	ASN
1	F	557	ASN
1	F	608	GLN
1	F	624	HIS
1	F	630	HIS
1	F	691	ASN
1	F	696	ASN
1	F	717	ASN
1	G	255	HIS
1	G	259	GLN
1	G	272	HIS
1	G	286	ASN
1	G	302	ASN
1	G	320	GLN
1	G	335	ASN

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Mol	Chain	Res	Type
1	G	360	GLN
1	G	382	ASN
1	G	386	GLN
1	G	408	ASN
1	G	458	ASN
1	G	486	GLN
1	G	487	GLN
1	G	497	ASN
1	G	498	ASN
1	G	512	ASN
1	G	519	ASN
1	G	557	ASN
1	G	608	GLN
1	G	624	HIS
1	G	630	HIS
1	G	691	ASN
1	G	696	ASN
1	G	717	ASN
1	H	253	ASN
1	H	255	HIS
1	H	259	GLN
1	H	272	HIS
1	H	286	ASN
1	H	302	ASN
1	H	320	GLN
1	H	335	ASN
1	H	360	GLN
1	H	375	GLN
1	H	382	ASN
1	H	383	ASN
1	H	386	GLN
1	H	408	ASN
1	H	427	HIS
1	H	458	ASN
1	H	486	GLN
1	H	487	GLN
1	H	497	ASN
1	H	498	ASN
1	H	512	ASN
1	H	519	ASN
1	H	557	ASN
1	H	608	GLN

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Mol	Chain	Res	Type
1	H	624	HIS
1	H	630	HIS
1	H	691	ASN
1	H	696	ASN
1	H	717	ASN
1	I	255	HIS
1	I	272	HIS
1	I	286	ASN
1	I	302	ASN
1	I	320	GLN
1	I	335	ASN
1	I	360	GLN
1	I	382	ASN
1	I	386	GLN
1	I	408	ASN
1	I	427	HIS
1	I	458	ASN
1	I	486	GLN
1	I	487	GLN
1	I	497	ASN
1	I	498	ASN
1	I	512	ASN
1	I	519	ASN
1	I	557	ASN
1	I	608	GLN
1	I	624	HIS
1	I	630	HIS
1	I	691	ASN
1	I	696	ASN
1	I	717	ASN
1	J	253	ASN
1	J	255	HIS
1	J	259	GLN
1	J	272	HIS
1	J	286	ASN
1	J	302	ASN
1	J	320	GLN
1	J	335	ASN
1	J	360	GLN
1	J	375	GLN
1	J	382	ASN
1	J	383	ASN

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Mol	Chain	Res	Type
1	J	386	GLN
1	J	408	ASN
1	J	458	ASN
1	J	486	GLN
1	J	487	GLN
1	J	497	ASN
1	J	498	ASN
1	J	512	ASN
1	J	519	ASN
1	J	557	ASN
1	J	608	GLN
1	J	624	HIS
1	J	630	HIS
1	J	673	GLN
1	J	691	ASN
1	J	696	ASN
1	J	717	ASN
1	K	253	ASN
1	K	255	HIS
1	K	259	GLN
1	K	272	HIS
1	K	286	ASN
1	K	302	ASN
1	K	320	GLN
1	K	335	ASN
1	K	375	GLN
1	K	382	ASN
1	K	383	ASN
1	K	386	GLN
1	K	408	ASN
1	K	427	HIS
1	K	458	ASN
1	K	486	GLN
1	K	487	GLN
1	K	497	ASN
1	K	498	ASN
1	K	512	ASN
1	K	519	ASN
1	K	557	ASN
1	K	608	GLN
1	K	624	HIS
1	K	630	HIS

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Mol	Chain	Res	Type
1	K	691	ASN
1	K	696	ASN
1	K	717	ASN
1	L	253	ASN
1	L	255	HIS
1	L	259	GLN
1	L	272	HIS
1	L	286	ASN
1	L	302	ASN
1	L	320	GLN
1	L	335	ASN
1	L	375	GLN
1	L	382	ASN
1	L	386	GLN
1	L	408	ASN
1	L	427	HIS
1	L	458	ASN
1	L	486	GLN
1	L	487	GLN
1	L	497	ASN
1	L	498	ASN
1	L	512	ASN
1	L	519	ASN
1	L	557	ASN
1	L	608	GLN
1	L	624	HIS
1	L	630	HIS
1	L	691	ASN
1	L	696	ASN
1	L	717	ASN
1	M	253	ASN
1	M	255	HIS
1	M	259	GLN
1	M	272	HIS
1	M	286	ASN
1	M	302	ASN
1	M	320	GLN
1	M	335	ASN
1	M	375	GLN
1	M	382	ASN
1	M	383	ASN
1	M	386	GLN

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Mol	Chain	Res	Type
1	M	408	ASN
1	M	427	HIS
1	M	458	ASN
1	M	486	GLN
1	M	487	GLN
1	M	497	ASN
1	M	498	ASN
1	M	512	ASN
1	M	519	ASN
1	M	557	ASN
1	M	608	GLN
1	M	624	HIS
1	M	630	HIS
1	M	691	ASN
1	M	696	ASN
1	M	717	ASN
1	N	255	HIS
1	N	259	GLN
1	N	272	HIS
1	N	286	ASN
1	N	302	ASN
1	N	320	GLN
1	N	335	ASN
1	N	375	GLN
1	N	382	ASN
1	N	386	GLN
1	N	408	ASN
1	N	458	ASN
1	N	486	GLN
1	N	487	GLN
1	N	497	ASN
1	N	498	ASN
1	N	512	ASN
1	N	519	ASN
1	N	557	ASN
1	N	608	GLN
1	N	624	HIS
1	N	630	HIS
1	N	691	ASN
1	N	696	ASN
1	N	717	ASN
1	O	253	ASN

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Mol	Chain	Res	Type
1	O	255	HIS
1	O	259	GLN
1	O	272	HIS
1	O	286	ASN
1	O	302	ASN
1	O	320	GLN
1	O	335	ASN
1	O	360	GLN
1	O	375	GLN
1	O	382	ASN
1	O	386	GLN
1	O	408	ASN
1	O	427	HIS
1	O	458	ASN
1	O	486	GLN
1	O	487	GLN
1	O	497	ASN
1	O	498	ASN
1	O	512	ASN
1	O	519	ASN
1	O	557	ASN
1	O	608	GLN
1	O	624	HIS
1	O	630	HIS
1	O	691	ASN
1	O	696	ASN
1	O	700	GLN
1	O	717	ASN
1	P	253	ASN
1	P	255	HIS
1	P	272	HIS
1	P	286	ASN
1	P	302	ASN
1	P	320	GLN
1	P	335	ASN
1	P	375	GLN
1	P	382	ASN
1	P	386	GLN
1	P	408	ASN
1	P	427	HIS
1	P	458	ASN
1	P	486	GLN

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Mol	Chain	Res	Type
1	P	487	GLN
1	P	497	ASN
1	P	498	ASN
1	P	512	ASN
1	P	519	ASN
1	P	557	ASN
1	P	608	GLN
1	P	624	HIS
1	P	630	HIS
1	P	691	ASN
1	P	696	ASN
1	P	717	ASN
1	Q	253	ASN
1	Q	255	HIS
1	Q	259	GLN
1	Q	272	HIS
1	Q	286	ASN
1	Q	302	ASN
1	Q	320	GLN
1	Q	335	ASN
1	Q	350	GLN
1	Q	360	GLN
1	Q	375	GLN
1	Q	382	ASN
1	Q	383	ASN
1	Q	386	GLN
1	Q	408	ASN
1	Q	427	HIS
1	Q	458	ASN
1	Q	486	GLN
1	Q	487	GLN
1	Q	497	ASN
1	Q	498	ASN
1	Q	512	ASN
1	Q	519	ASN
1	Q	557	ASN
1	Q	608	GLN
1	Q	624	HIS
1	Q	630	HIS
1	Q	691	ASN
1	Q	696	ASN
1	Q	717	ASN

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Mol	Chain	Res	Type
1	R	253	ASN
1	R	255	HIS
1	R	272	HIS
1	R	286	ASN
1	R	302	ASN
1	R	320	GLN
1	R	335	ASN
1	R	360	GLN
1	R	375	GLN
1	R	382	ASN
1	R	386	GLN
1	R	408	ASN
1	R	427	HIS
1	R	458	ASN
1	R	486	GLN
1	R	487	GLN
1	R	497	ASN
1	R	498	ASN
1	R	512	ASN
1	R	519	ASN
1	R	557	ASN
1	R	608	GLN
1	R	624	HIS
1	R	630	HIS
1	R	691	ASN
1	R	696	ASN
1	R	717	ASN
1	S	253	ASN
1	S	255	HIS
1	S	272	HIS
1	S	286	ASN
1	S	302	ASN
1	S	335	ASN
1	S	375	GLN
1	S	382	ASN
1	S	383	ASN
1	S	386	GLN
1	S	408	ASN
1	S	427	HIS
1	S	458	ASN
1	S	486	GLN
1	S	487	GLN

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Mol	Chain	Res	Type
1	S	497	ASN
1	S	498	ASN
1	S	512	ASN
1	S	519	ASN
1	S	557	ASN
1	S	608	GLN
1	S	630	HIS
1	S	691	ASN
1	S	696	ASN
1	S	717	ASN
1	T	253	ASN
1	T	255	HIS
1	T	259	GLN
1	T	272	HIS
1	T	286	ASN
1	T	302	ASN
1	T	320	GLN
1	T	335	ASN
1	T	375	GLN
1	T	382	ASN
1	T	386	GLN
1	T	408	ASN
1	T	427	HIS
1	T	458	ASN
1	T	486	GLN
1	T	487	GLN
1	T	497	ASN
1	T	498	ASN
1	T	512	ASN
1	T	519	ASN
1	T	557	ASN
1	T	608	GLN
1	T	624	HIS
1	T	630	HIS
1	T	691	ASN
1	T	696	ASN
1	T	717	ASN
1	U	253	ASN
1	U	255	HIS
1	U	259	GLN
1	U	272	HIS
1	U	286	ASN

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Mol	Chain	Res	Type
1	U	302	ASN
1	U	320	GLN
1	U	335	ASN
1	U	350	GLN
1	U	375	GLN
1	U	382	ASN
1	U	386	GLN
1	U	408	ASN
1	U	427	HIS
1	U	458	ASN
1	U	486	GLN
1	U	487	GLN
1	U	497	ASN
1	U	498	ASN
1	U	512	ASN
1	U	519	ASN
1	U	557	ASN
1	U	608	GLN
1	U	630	HIS
1	U	691	ASN
1	U	696	ASN
1	U	717	ASN
1	V	253	ASN
1	V	255	HIS
1	V	259	GLN
1	V	272	HIS
1	V	286	ASN
1	V	302	ASN
1	V	320	GLN
1	V	335	ASN
1	V	350	GLN
1	V	375	GLN
1	V	382	ASN
1	V	386	GLN
1	V	408	ASN
1	V	427	HIS
1	V	458	ASN
1	V	486	GLN
1	V	487	GLN
1	V	497	ASN
1	V	498	ASN
1	V	512	ASN

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Mol	Chain	Res	Type
1	V	519	ASN
1	V	557	ASN
1	V	608	GLN
1	V	624	HIS
1	V	630	HIS
1	V	691	ASN
1	V	696	ASN
1	V	717	ASN
1	W	253	ASN
1	W	255	HIS
1	W	272	HIS
1	W	286	ASN
1	W	302	ASN
1	W	320	GLN
1	W	335	ASN
1	W	350	GLN
1	W	360	GLN
1	W	375	GLN
1	W	382	ASN
1	W	386	GLN
1	W	408	ASN
1	W	458	ASN
1	W	486	GLN
1	W	487	GLN
1	W	497	ASN
1	W	498	ASN
1	W	512	ASN
1	W	519	ASN
1	W	557	ASN
1	W	608	GLN
1	W	691	ASN
1	W	696	ASN
1	W	717	ASN
1	X	227	ASN
1	X	253	ASN
1	X	255	HIS
1	X	259	GLN
1	X	272	HIS
1	X	286	ASN
1	X	302	ASN
1	X	320	GLN
1	X	335	ASN

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Mol	Chain	Res	Type
1	X	350	GLN
1	X	375	GLN
1	X	382	ASN
1	X	386	GLN
1	X	408	ASN
1	X	458	ASN
1	X	486	GLN
1	X	487	GLN
1	X	497	ASN
1	X	498	ASN
1	X	512	ASN
1	X	519	ASN
1	X	557	ASN
1	X	608	GLN
1	X	624	HIS
1	X	630	HIS
1	X	691	ASN
1	X	696	ASN
1	X	717	ASN
1	Y	255	HIS
1	Y	259	GLN
1	Y	272	HIS
1	Y	286	ASN
1	Y	302	ASN
1	Y	320	GLN
1	Y	335	ASN
1	Y	375	GLN
1	Y	382	ASN
1	Y	383	ASN
1	Y	386	GLN
1	Y	408	ASN
1	Y	427	HIS
1	Y	458	ASN
1	Y	486	GLN
1	Y	487	GLN
1	Y	497	ASN
1	Y	498	ASN
1	Y	512	ASN
1	Y	519	ASN
1	Y	557	ASN
1	Y	608	GLN
1	Y	630	HIS

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Mol	Chain	Res	Type
1	Y	691	ASN
1	Y	696	ASN
1	Y	717	ASN
1	Z	253	ASN
1	Z	255	HIS
1	Z	259	GLN
1	Z	272	HIS
1	Z	286	ASN
1	Z	302	ASN
1	Z	320	GLN
1	Z	335	ASN
1	Z	375	GLN
1	Z	382	ASN
1	Z	386	GLN
1	Z	408	ASN
1	Z	458	ASN
1	Z	486	GLN
1	Z	487	GLN
1	Z	497	ASN
1	Z	498	ASN
1	Z	512	ASN
1	Z	519	ASN
1	Z	557	ASN
1	Z	608	GLN
1	Z	630	HIS
1	Z	691	ASN
1	Z	696	ASN
1	Z	717	ASN
1	a	253	ASN
1	a	255	HIS
1	a	259	GLN
1	a	272	HIS
1	a	286	ASN
1	a	302	ASN
1	a	320	GLN
1	a	335	ASN
1	a	360	GLN
1	a	375	GLN
1	a	382	ASN
1	a	386	GLN
1	a	408	ASN
1	a	427	HIS

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Mol	Chain	Res	Type
1	a	458	ASN
1	a	486	GLN
1	a	487	GLN
1	a	497	ASN
1	a	498	ASN
1	a	512	ASN
1	a	519	ASN
1	a	557	ASN
1	a	608	GLN
1	a	624	HIS
1	a	630	HIS
1	a	691	ASN
1	a	696	ASN
1	a	700	GLN
1	b	259	GLN
1	b	272	HIS
1	b	286	ASN
1	b	302	ASN
1	b	320	GLN
1	b	335	ASN
1	b	360	GLN
1	b	382	ASN
1	b	386	GLN
1	b	408	ASN
1	b	427	HIS
1	b	458	ASN
1	b	486	GLN
1	b	487	GLN
1	b	497	ASN
1	b	498	ASN
1	b	512	ASN
1	b	519	ASN
1	b	557	ASN
1	b	608	GLN
1	b	624	HIS
1	b	630	HIS
1	b	691	ASN
1	b	696	ASN
1	b	717	ASN
1	c	227	ASN
1	c	253	ASN
1	c	255	HIS

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Mol	Chain	Res	Type
1	c	259	GLN
1	c	272	HIS
1	c	286	ASN
1	c	302	ASN
1	c	320	GLN
1	c	335	ASN
1	c	350	GLN
1	c	375	GLN
1	c	382	ASN
1	c	386	GLN
1	c	408	ASN
1	c	427	HIS
1	c	458	ASN
1	c	486	GLN
1	c	487	GLN
1	c	497	ASN
1	c	498	ASN
1	c	512	ASN
1	c	519	ASN
1	c	557	ASN
1	c	608	GLN
1	c	624	HIS
1	c	630	HIS
1	c	691	ASN
1	c	696	ASN
1	c	717	ASN
1	d	253	ASN
1	d	255	HIS
1	d	259	GLN
1	d	272	HIS
1	d	286	ASN
1	d	302	ASN
1	d	320	GLN
1	d	335	ASN
1	d	360	GLN
1	d	375	GLN
1	d	382	ASN
1	d	386	GLN
1	d	408	ASN
1	d	427	HIS
1	d	458	ASN
1	d	486	GLN

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Mol	Chain	Res	Type
1	d	487	GLN
1	d	497	ASN
1	d	498	ASN
1	d	512	ASN
1	d	519	ASN
1	d	557	ASN
1	d	608	GLN
1	d	630	HIS
1	d	691	ASN
1	d	696	ASN
1	d	717	ASN
1	e	253	ASN
1	e	255	HIS
1	e	259	GLN
1	e	272	HIS
1	e	286	ASN
1	e	302	ASN
1	e	320	GLN
1	e	335	ASN
1	e	360	GLN
1	e	375	GLN
1	e	383	ASN
1	e	386	GLN
1	e	408	ASN
1	e	427	HIS
1	e	458	ASN
1	e	486	GLN
1	e	487	GLN
1	e	497	ASN
1	e	498	ASN
1	e	512	ASN
1	e	519	ASN
1	e	557	ASN
1	e	608	GLN
1	e	624	HIS
1	e	630	HIS
1	e	691	ASN
1	e	696	ASN
1	e	717	ASN
1	f	253	ASN
1	f	255	HIS
1	f	259	GLN

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Mol	Chain	Res	Type
1	f	272	HIS
1	f	286	ASN
1	f	302	ASN
1	f	320	GLN
1	f	335	ASN
1	f	350	GLN
1	f	375	GLN
1	f	382	ASN
1	f	386	GLN
1	f	408	ASN
1	f	458	ASN
1	f	486	GLN
1	f	487	GLN
1	f	497	ASN
1	f	498	ASN
1	f	512	ASN
1	f	519	ASN
1	f	557	ASN
1	f	608	GLN
1	f	624	HIS
1	f	630	HIS
1	f	691	ASN
1	f	696	ASN
1	f	717	ASN
1	g	253	ASN
1	g	255	HIS
1	g	259	GLN
1	g	272	HIS
1	g	286	ASN
1	g	302	ASN
1	g	320	GLN
1	g	335	ASN
1	g	375	GLN
1	g	382	ASN
1	g	386	GLN
1	g	408	ASN
1	g	427	HIS
1	g	458	ASN
1	g	486	GLN
1	g	487	GLN
1	g	497	ASN
1	g	498	ASN

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Mol	Chain	Res	Type
1	g	512	ASN
1	g	519	ASN
1	g	557	ASN
1	g	608	GLN
1	g	630	HIS
1	g	691	ASN
1	g	696	ASN
1	g	717	ASN
1	h	253	ASN
1	h	255	HIS
1	h	259	GLN
1	h	272	HIS
1	h	286	ASN
1	h	302	ASN
1	h	320	GLN
1	h	335	ASN
1	h	375	GLN
1	h	382	ASN
1	h	383	ASN
1	h	386	GLN
1	h	408	ASN
1	h	427	HIS
1	h	458	ASN
1	h	486	GLN
1	h	487	GLN
1	h	497	ASN
1	h	498	ASN
1	h	512	ASN
1	h	519	ASN
1	h	557	ASN
1	h	608	GLN
1	h	624	HIS
1	h	630	HIS
1	h	691	ASN
1	h	696	ASN
1	h	717	ASN
1	i	253	ASN
1	i	259	GLN
1	i	272	HIS
1	i	286	ASN
1	i	302	ASN
1	i	320	GLN

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Mol	Chain	Res	Type
1	i	335	ASN
1	i	375	GLN
1	i	382	ASN
1	i	386	GLN
1	i	408	ASN
1	i	458	ASN
1	i	486	GLN
1	i	487	GLN
1	i	497	ASN
1	i	498	ASN
1	i	512	ASN
1	i	519	ASN
1	i	557	ASN
1	i	608	GLN
1	i	624	HIS
1	i	630	HIS
1	i	691	ASN
1	i	696	ASN
1	i	717	ASN
1	j	253	ASN
1	j	255	HIS
1	j	259	GLN
1	j	272	HIS
1	j	286	ASN
1	j	302	ASN
1	j	320	GLN
1	j	335	ASN
1	j	350	GLN
1	j	375	GLN
1	j	382	ASN
1	j	383	ASN
1	j	386	GLN
1	j	408	ASN
1	j	427	HIS
1	j	458	ASN
1	j	486	GLN
1	j	487	GLN
1	j	497	ASN
1	j	498	ASN
1	j	512	ASN
1	j	519	ASN
1	j	557	ASN

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Mol	Chain	Res	Type
1	j	608	GLN
1	j	624	HIS
1	j	630	HIS
1	j	691	ASN
1	j	696	ASN
1	j	717	ASN
1	k	253	ASN
1	k	255	HIS
1	k	259	GLN
1	k	272	HIS
1	k	286	ASN
1	k	302	ASN
1	k	320	GLN
1	k	335	ASN
1	k	375	GLN
1	k	382	ASN
1	k	383	ASN
1	k	386	GLN
1	k	408	ASN
1	k	458	ASN
1	k	486	GLN
1	k	487	GLN
1	k	497	ASN
1	k	498	ASN
1	k	512	ASN
1	k	519	ASN
1	k	557	ASN
1	k	608	GLN
1	k	630	HIS
1	k	691	ASN
1	k	696	ASN
1	k	717	ASN
1	l	253	ASN
1	l	255	HIS
1	l	259	GLN
1	l	272	HIS
1	l	286	ASN
1	l	302	ASN
1	l	320	GLN
1	l	335	ASN
1	l	360	GLN
1	l	375	GLN

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Mol	Chain	Res	Type
1	l	382	ASN
1	l	383	ASN
1	l	386	GLN
1	l	408	ASN
1	l	458	ASN
1	l	486	GLN
1	l	487	GLN
1	l	497	ASN
1	l	498	ASN
1	l	512	ASN
1	l	519	ASN
1	l	557	ASN
1	l	608	GLN
1	l	630	HIS
1	l	691	ASN
1	l	696	ASN
1	l	717	ASN
1	m	253	ASN
1	m	259	GLN
1	m	272	HIS
1	m	286	ASN
1	m	302	ASN
1	m	320	GLN
1	m	335	ASN
1	m	360	GLN
1	m	375	GLN
1	m	382	ASN
1	m	383	ASN
1	m	386	GLN
1	m	408	ASN
1	m	427	HIS
1	m	458	ASN
1	m	486	GLN
1	m	487	GLN
1	m	497	ASN
1	m	498	ASN
1	m	512	ASN
1	m	519	ASN
1	m	557	ASN
1	m	608	GLN
1	m	624	HIS
1	m	630	HIS

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Mol	Chain	Res	Type
1	m	691	ASN
1	m	696	ASN
1	m	717	ASN
1	n	253	ASN
1	n	255	HIS
1	n	259	GLN
1	n	272	HIS
1	n	286	ASN
1	n	302	ASN
1	n	320	GLN
1	n	335	ASN
1	n	375	GLN
1	n	382	ASN
1	n	386	GLN
1	n	408	ASN
1	n	427	HIS
1	n	458	ASN
1	n	486	GLN
1	n	487	GLN
1	n	497	ASN
1	n	498	ASN
1	n	512	ASN
1	n	519	ASN
1	n	557	ASN
1	n	608	GLN
1	n	624	HIS
1	n	630	HIS
1	n	691	ASN
1	n	696	ASN
1	n	717	ASN
1	o	255	HIS
1	o	259	GLN
1	o	272	HIS
1	o	286	ASN
1	o	302	ASN
1	o	320	GLN
1	o	335	ASN
1	o	350	GLN
1	o	382	ASN
1	o	386	GLN
1	o	408	ASN
1	o	458	ASN

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Mol	Chain	Res	Type
1	o	486	GLN
1	o	487	GLN
1	o	497	ASN
1	o	498	ASN
1	o	512	ASN
1	o	519	ASN
1	o	557	ASN
1	o	608	GLN
1	o	630	HIS
1	o	691	ASN
1	o	696	ASN
1	o	717	ASN
1	p	253	ASN
1	p	255	HIS
1	p	259	GLN
1	p	272	HIS
1	p	286	ASN
1	p	302	ASN
1	p	320	GLN
1	p	335	ASN
1	p	350	GLN
1	p	375	GLN
1	p	382	ASN
1	p	386	GLN
1	p	408	ASN
1	p	427	HIS
1	p	458	ASN
1	p	486	GLN
1	p	487	GLN
1	p	497	ASN
1	p	498	ASN
1	p	512	ASN
1	p	519	ASN
1	p	557	ASN
1	p	608	GLN
1	p	624	HIS
1	p	630	HIS
1	p	691	ASN
1	p	696	ASN
1	p	717	ASN
1	q	253	ASN
1	q	255	HIS

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Mol	Chain	Res	Type
1	q	259	GLN
1	q	272	HIS
1	q	286	ASN
1	q	302	ASN
1	q	320	GLN
1	q	335	ASN
1	q	375	GLN
1	q	382	ASN
1	q	386	GLN
1	q	408	ASN
1	q	427	HIS
1	q	458	ASN
1	q	486	GLN
1	q	487	GLN
1	q	497	ASN
1	q	498	ASN
1	q	512	ASN
1	q	519	ASN
1	q	557	ASN
1	q	608	GLN
1	q	624	HIS
1	q	630	HIS
1	q	691	ASN
1	q	696	ASN
1	q	717	ASN
1	r	253	ASN
1	r	255	HIS
1	r	259	GLN
1	r	272	HIS
1	r	286	ASN
1	r	302	ASN
1	r	320	GLN
1	r	335	ASN
1	r	375	GLN
1	r	382	ASN
1	r	386	GLN
1	r	408	ASN
1	r	427	HIS
1	r	458	ASN
1	r	486	GLN
1	r	487	GLN
1	r	497	ASN

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Mol	Chain	Res	Type
1	r	498	ASN
1	r	512	ASN
1	r	519	ASN
1	r	557	ASN
1	r	608	GLN
1	r	630	HIS
1	r	691	ASN
1	r	696	ASN
1	r	717	ASN
1	s	253	ASN
1	s	255	HIS
1	s	259	GLN
1	s	272	HIS
1	s	286	ASN
1	s	302	ASN
1	s	320	GLN
1	s	335	ASN
1	s	350	GLN
1	s	375	GLN
1	s	382	ASN
1	s	383	ASN
1	s	386	GLN
1	s	408	ASN
1	s	427	HIS
1	s	458	ASN
1	s	486	GLN
1	s	487	GLN
1	s	497	ASN
1	s	498	ASN
1	s	512	ASN
1	s	519	ASN
1	s	557	ASN
1	s	608	GLN
1	s	624	HIS
1	s	630	HIS
1	s	691	ASN
1	s	696	ASN
1	s	717	ASN
1	t	253	ASN
1	t	255	HIS
1	t	259	GLN
1	t	272	HIS

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Mol	Chain	Res	Type
1	t	286	ASN
1	t	302	ASN
1	t	320	GLN
1	t	335	ASN
1	t	350	GLN
1	t	375	GLN
1	t	382	ASN
1	t	383	ASN
1	t	386	GLN
1	t	408	ASN
1	t	458	ASN
1	t	486	GLN
1	t	487	GLN
1	t	497	ASN
1	t	498	ASN
1	t	512	ASN
1	t	519	ASN
1	t	557	ASN
1	t	608	GLN
1	t	624	HIS
1	t	630	HIS
1	t	691	ASN
1	t	696	ASN
1	t	717	ASN
1	u	253	ASN
1	u	255	HIS
1	u	259	GLN
1	u	272	HIS
1	u	286	ASN
1	u	302	ASN
1	u	335	ASN
1	u	375	GLN
1	u	382	ASN
1	u	383	ASN
1	u	386	GLN
1	u	408	ASN
1	u	427	HIS
1	u	458	ASN
1	u	486	GLN
1	u	487	GLN
1	u	497	ASN
1	u	498	ASN

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Mol	Chain	Res	Type
1	u	512	ASN
1	u	519	ASN
1	u	557	ASN
1	u	608	GLN
1	u	624	HIS
1	u	630	HIS
1	u	691	ASN
1	u	696	ASN
1	u	717	ASN
1	v	227	ASN
1	v	253	ASN
1	v	255	HIS
1	v	259	GLN
1	v	272	HIS
1	v	286	ASN
1	v	302	ASN
1	v	320	GLN
1	v	335	ASN
1	v	375	GLN
1	v	382	ASN
1	v	386	GLN
1	v	408	ASN
1	v	427	HIS
1	v	458	ASN
1	v	486	GLN
1	v	487	GLN
1	v	497	ASN
1	v	498	ASN
1	v	512	ASN
1	v	519	ASN
1	v	557	ASN
1	v	608	GLN
1	v	624	HIS
1	v	630	HIS
1	v	691	ASN
1	v	696	ASN
1	v	717	ASN
1	w	253	ASN
1	w	255	HIS
1	w	259	GLN
1	w	272	HIS
1	w	286	ASN

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Mol	Chain	Res	Type
1	w	302	ASN
1	w	320	GLN
1	w	335	ASN
1	w	360	GLN
1	w	375	GLN
1	w	382	ASN
1	w	386	GLN
1	w	408	ASN
1	w	427	HIS
1	w	458	ASN
1	w	486	GLN
1	w	487	GLN
1	w	497	ASN
1	w	498	ASN
1	w	512	ASN
1	w	519	ASN
1	w	557	ASN
1	w	608	GLN
1	w	624	HIS
1	w	630	HIS
1	w	691	ASN
1	w	696	ASN
1	w	717	ASN
1	x	253	ASN
1	x	255	HIS
1	x	259	GLN
1	x	272	HIS
1	x	286	ASN
1	x	302	ASN
1	x	320	GLN
1	x	335	ASN
1	x	360	GLN
1	x	375	GLN
1	x	382	ASN
1	x	383	ASN
1	x	386	GLN
1	x	408	ASN
1	x	427	HIS
1	x	458	ASN
1	x	486	GLN
1	x	487	GLN
1	x	497	ASN

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Mol	Chain	Res	Type
1	x	498	ASN
1	x	512	ASN
1	x	519	ASN
1	x	557	ASN
1	x	608	GLN
1	x	624	HIS
1	x	630	HIS
1	x	691	ASN
1	x	696	ASN
1	x	700	GLN
1	x	717	ASN
1	y	253	ASN
1	y	255	HIS
1	y	259	GLN
1	y	272	HIS
1	y	286	ASN
1	y	302	ASN
1	y	320	GLN
1	y	335	ASN
1	y	375	GLN
1	y	382	ASN
1	y	383	ASN
1	y	386	GLN
1	y	408	ASN
1	y	458	ASN
1	y	486	GLN
1	y	487	GLN
1	y	497	ASN
1	y	498	ASN
1	y	512	ASN
1	y	519	ASN
1	y	557	ASN
1	y	608	GLN
1	y	624	HIS
1	y	630	HIS
1	y	691	ASN
1	y	696	ASN
1	y	700	GLN
1	y	717	ASN
1	z	227	ASN
1	z	253	ASN
1	z	255	HIS

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Mol	Chain	Res	Type
1	z	259	GLN
1	z	272	HIS
1	z	286	ASN
1	z	302	ASN
1	z	335	ASN
1	z	375	GLN
1	z	382	ASN
1	z	386	GLN
1	z	408	ASN
1	z	458	ASN
1	z	486	GLN
1	z	487	GLN
1	z	497	ASN
1	z	498	ASN
1	z	512	ASN
1	z	519	ASN
1	z	557	ASN
1	z	608	GLN
1	z	624	HIS
1	z	630	HIS
1	z	691	ASN
1	z	696	ASN
1	z	717	ASN
1	0	253	ASN
1	0	255	HIS
1	0	259	GLN
1	0	272	HIS
1	0	286	ASN
1	0	302	ASN
1	0	318	ASN
1	0	320	GLN
1	0	335	ASN
1	0	360	GLN
1	0	375	GLN
1	0	382	ASN
1	0	386	GLN
1	0	408	ASN
1	0	427	HIS
1	0	458	ASN
1	0	486	GLN
1	0	487	GLN
1	0	497	ASN

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Mol	Chain	Res	Type
1	0	498	ASN
1	0	512	ASN
1	0	519	ASN
1	0	557	ASN
1	0	608	GLN
1	0	624	HIS
1	0	630	HIS
1	0	678	GLN
1	0	691	ASN
1	0	696	ASN
1	0	717	ASN
1	1	253	ASN
1	1	255	HIS
1	1	259	GLN
1	1	272	HIS
1	1	286	ASN
1	1	302	ASN
1	1	320	GLN
1	1	335	ASN
1	1	350	GLN
1	1	375	GLN
1	1	382	ASN
1	1	383	ASN
1	1	386	GLN
1	1	408	ASN
1	1	427	HIS
1	1	458	ASN
1	1	486	GLN
1	1	487	GLN
1	1	497	ASN
1	1	498	ASN
1	1	512	ASN
1	1	519	ASN
1	1	557	ASN
1	1	608	GLN
1	1	624	HIS
1	1	630	HIS
1	1	691	ASN
1	1	696	ASN
1	1	717	ASN
1	2	253	ASN
1	2	255	HIS

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Mol	Chain	Res	Type
1	2	259	GLN
1	2	272	HIS
1	2	286	ASN
1	2	302	ASN
1	2	320	GLN
1	2	335	ASN
1	2	375	GLN
1	2	382	ASN
1	2	383	ASN
1	2	386	GLN
1	2	408	ASN
1	2	427	HIS
1	2	458	ASN
1	2	486	GLN
1	2	487	GLN
1	2	497	ASN
1	2	498	ASN
1	2	512	ASN
1	2	519	ASN
1	2	557	ASN
1	2	608	GLN
1	2	624	HIS
1	2	630	HIS
1	2	691	ASN
1	2	696	ASN
1	2	700	GLN
1	2	717	ASN
1	3	253	ASN
1	3	259	GLN
1	3	272	HIS
1	3	286	ASN
1	3	302	ASN
1	3	320	GLN
1	3	335	ASN
1	3	375	GLN
1	3	382	ASN
1	3	386	GLN
1	3	408	ASN
1	3	427	HIS
1	3	458	ASN
1	3	486	GLN
1	3	487	GLN

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Mol	Chain	Res	Type
1	3	497	ASN
1	3	498	ASN
1	3	512	ASN
1	3	519	ASN
1	3	557	ASN
1	3	608	GLN
1	3	624	HIS
1	3	630	HIS
1	3	691	ASN
1	3	696	ASN
1	3	717	ASN
1	4	253	ASN
1	4	255	HIS
1	4	272	HIS
1	4	286	ASN
1	4	302	ASN
1	4	320	GLN
1	4	335	ASN
1	4	375	GLN
1	4	382	ASN
1	4	386	GLN
1	4	408	ASN
1	4	427	HIS
1	4	458	ASN
1	4	486	GLN
1	4	487	GLN
1	4	497	ASN
1	4	498	ASN
1	4	512	ASN
1	4	519	ASN
1	4	557	ASN
1	4	608	GLN
1	4	624	HIS
1	4	630	HIS
1	4	691	ASN
1	4	696	ASN
1	4	717	ASN
1	5	253	ASN
1	5	255	HIS
1	5	259	GLN
1	5	272	HIS
1	5	286	ASN

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Mol	Chain	Res	Type
1	5	302	ASN
1	5	320	GLN
1	5	335	ASN
1	5	350	GLN
1	5	375	GLN
1	5	382	ASN
1	5	386	GLN
1	5	408	ASN
1	5	427	HIS
1	5	458	ASN
1	5	486	GLN
1	5	487	GLN
1	5	497	ASN
1	5	498	ASN
1	5	512	ASN
1	5	519	ASN
1	5	557	ASN
1	5	608	GLN
1	5	630	HIS
1	5	691	ASN
1	5	696	ASN
1	5	717	ASN
1	6	253	ASN
1	6	255	HIS
1	6	259	GLN
1	6	272	HIS
1	6	286	ASN
1	6	302	ASN
1	6	320	GLN
1	6	335	ASN
1	6	350	GLN
1	6	375	GLN
1	6	382	ASN
1	6	386	GLN
1	6	408	ASN
1	6	427	HIS
1	6	458	ASN
1	6	486	GLN
1	6	487	GLN
1	6	497	ASN
1	6	498	ASN
1	6	512	ASN

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Mol	Chain	Res	Type
1	6	519	ASN
1	6	557	ASN
1	6	608	GLN
1	6	624	HIS
1	6	630	HIS
1	6	691	ASN
1	6	696	ASN
1	6	700	GLN
1	6	717	ASN
1	7	253	ASN
1	7	255	HIS
1	7	259	GLN
1	7	272	HIS
1	7	286	ASN
1	7	302	ASN
1	7	320	GLN
1	7	335	ASN
1	7	350	GLN
1	7	375	GLN
1	7	382	ASN
1	7	386	GLN
1	7	408	ASN
1	7	427	HIS
1	7	458	ASN
1	7	486	GLN
1	7	487	GLN
1	7	497	ASN
1	7	498	ASN
1	7	512	ASN
1	7	519	ASN
1	7	557	ASN
1	7	608	GLN
1	7	624	HIS
1	7	630	HIS
1	7	691	ASN
1	7	696	ASN
1	7	717	ASN

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	0	520/520 (100%)	-0.34	4 (0%) 83 26	45, 60, 92, 141	0
1	1	520/520 (100%)	-0.31	0 100 100	44, 61, 91, 139	0
1	2	520/520 (100%)	-0.32	2 (0%) 90 41	46, 60, 93, 141	0
1	3	520/520 (100%)	-0.35	2 (0%) 90 41	43, 59, 91, 138	0
1	4	520/520 (100%)	-0.42	1 (0%) 93 54	44, 59, 92, 140	0
1	5	520/520 (100%)	-0.36	0 100 100	43, 57, 90, 138	0
1	6	520/520 (100%)	-0.34	3 (0%) 86 32	42, 57, 90, 139	0
1	7	520/520 (100%)	-0.40	0 100 100	42, 58, 90, 138	0
1	A	520/520 (100%)	-0.25	0 100 100	45, 61, 92, 139	0
1	B	520/520 (100%)	-0.30	1 (0%) 93 54	46, 61, 93, 139	0
1	C	520/520 (100%)	-0.32	2 (0%) 90 41	45, 60, 92, 140	0
1	D	520/520 (100%)	-0.32	1 (0%) 93 54	44, 61, 92, 139	0
1	E	520/520 (100%)	-0.32	0 100 100	46, 61, 93, 139	0
1	F	520/520 (100%)	-0.27	0 100 100	45, 61, 93, 138	0
1	G	520/520 (100%)	-0.35	1 (0%) 93 54	46, 60, 91, 140	0
1	H	520/520 (100%)	-0.34	0 100 100	43, 60, 92, 137	0
1	I	520/520 (100%)	-0.29	1 (0%) 93 54	45, 61, 92, 139	0
1	J	520/520 (100%)	-0.25	1 (0%) 93 54	45, 62, 92, 141	0
1	K	520/520 (100%)	-0.37	1 (0%) 93 54	43, 57, 91, 139	0
1	L	520/520 (100%)	-0.38	1 (0%) 93 54	42, 58, 90, 141	0
1	M	520/520 (100%)	-0.36	1 (0%) 93 54	43, 58, 90, 138	0
1	N	520/520 (100%)	-0.40	0 100 100	42, 58, 90, 138	0
1	O	520/520 (100%)	-0.37	0 100 100	42, 58, 91, 141	0
1	P	520/520 (100%)	-0.38	3 (0%) 86 32	43, 58, 90, 141	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	Q	520/520 (100%)	-0.33	1 (0%) 93 54	42, 59, 91, 138	0
1	R	520/520 (100%)	-0.37	1 (0%) 93 54	43, 58, 91, 139	0
1	S	520/520 (100%)	-0.37	1 (0%) 93 54	41, 57, 88, 141	0
1	T	520/520 (100%)	-0.37	1 (0%) 93 54	42, 57, 90, 140	0
1	U	520/520 (100%)	-0.33	1 (0%) 93 54	45, 60, 91, 139	0
1	V	520/520 (100%)	-0.31	0 100 100	45, 61, 92, 140	0
1	W	520/520 (100%)	-0.26	1 (0%) 93 54	46, 61, 93, 139	0
1	X	520/520 (100%)	-0.26	1 (0%) 93 54	44, 61, 93, 141	0
1	Y	520/520 (100%)	-0.31	0 100 100	45, 61, 92, 139	0
1	Z	520/520 (100%)	-0.34	0 100 100	44, 60, 91, 140	0
1	a	520/520 (100%)	-0.34	1 (0%) 93 54	44, 59, 92, 139	0
1	b	520/520 (100%)	-0.38	1 (0%) 93 54	42, 58, 90, 137	0
1	c	520/520 (100%)	-0.38	0 100 100	44, 59, 90, 141	0
1	d	520/520 (100%)	-0.36	0 100 100	45, 60, 91, 141	0
1	e	520/520 (100%)	-0.37	1 (0%) 93 54	43, 58, 89, 141	0
1	f	520/520 (100%)	-0.37	1 (0%) 93 54	45, 59, 92, 141	0
1	g	520/520 (100%)	-0.35	0 100 100	46, 60, 92, 134	0
1	h	520/520 (100%)	-0.34	1 (0%) 93 54	45, 60, 91, 140	0
1	i	520/520 (100%)	-0.38	0 100 100	43, 59, 90, 138	0
1	j	520/520 (100%)	-0.36	2 (0%) 90 41	43, 58, 90, 139	0
1	k	520/520 (100%)	-0.36	0 100 100	41, 58, 90, 135	0
1	l	520/520 (100%)	-0.38	0 100 100	42, 57, 90, 138	0
1	m	520/520 (100%)	-0.39	0 100 100	42, 57, 89, 138	0
1	n	520/520 (100%)	-0.35	0 100 100	42, 57, 90, 139	0
1	o	520/520 (100%)	-0.36	1 (0%) 93 54	45, 60, 92, 139	0
1	p	520/520 (100%)	-0.32	4 (0%) 83 26	46, 60, 91, 139	0
1	q	520/520 (100%)	-0.35	0 100 100	45, 60, 92, 139	0
1	r	520/520 (100%)	-0.39	1 (0%) 93 54	43, 58, 90, 138	0
1	s	520/520 (100%)	-0.37	2 (0%) 90 41	43, 59, 91, 139	0
1	t	520/520 (100%)	-0.36	2 (0%) 90 41	43, 59, 91, 140	0
1	u	520/520 (100%)	-0.35	3 (0%) 86 32	43, 58, 90, 140	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	v	520/520 (100%)	-0.37	2 (0%)	90	41	42, 59, 90, 141	0
1	w	520/520 (100%)	-0.33	1 (0%)	93	54	43, 60, 92, 141	0
1	x	520/520 (100%)	-0.33	3 (0%)	86	32	44, 60, 92, 140	0
1	y	520/520 (100%)	-0.37	1 (0%)	93	54	43, 59, 90, 139	0
1	z	520/520 (100%)	-0.33	1 (0%)	93	54	45, 59, 91, 141	0
All	All	31200/31200 (100%)	-0.35	60 (0%)	93	54	41, 59, 91, 141	0

All (60) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	x	217	GLY	4.5
1	U	217	GLY	3.4
1	s	217	GLY	3.1
1	u	217	GLY	3.0
1	2	217	GLY	2.9
1	M	217	GLY	2.9
1	p	452	GLN	2.8
1	p	217	GLY	2.6
1	C	456	ALA	2.6
1	J	456	ALA	2.6
1	x	456	ALA	2.6
1	a	217	GLY	2.6
1	v	456	ALA	2.6
1	w	456	ALA	2.5
1	f	456	ALA	2.5
1	z	217	GLY	2.5
1	T	217	GLY	2.5
1	C	217	GLY	2.4
1	P	456	ALA	2.4
1	2	456	ALA	2.4
1	y	456	ALA	2.4
1	G	456	ALA	2.4
1	I	217	GLY	2.3
1	0	217	GLY	2.3
1	W	217	GLY	2.3
1	x	218	ALA	2.3
1	6	456	ALA	2.3
1	0	452	GLN	2.3
1	6	452	GLN	2.2
1	u	218	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	j	456	ALA	2.2
1	Q	456	ALA	2.2
1	v	217	GLY	2.2
1	3	454	GLY	2.2
1	e	217	GLY	2.2
1	X	452	GLN	2.2
1	D	456	ALA	2.2
1	3	452	GLN	2.2
1	b	456	ALA	2.2
1	S	456	ALA	2.2
1	0	456	ALA	2.1
1	P	217	GLY	2.1
1	4	456	ALA	2.1
1	6	457	GLN	2.1
1	p	457	GLN	2.1
1	r	217	GLY	2.1
1	s	452	GLN	2.1
1	o	456	ALA	2.1
1	p	329	GLY	2.1
1	t	454	GLY	2.1
1	j	457	GLN	2.1
1	u	456	ALA	2.1
1	L	217	GLY	2.1
1	h	217	GLY	2.0
1	K	456	ALA	2.0
1	t	456	ALA	2.0
1	B	456	ALA	2.0
1	0	218	ALA	2.0
1	P	457	GLN	2.0
1	R	217	GLY	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.