



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 11:06 AM UTC

PDB ID : 7L6I / pdb_00007l6i
EMDB ID : EMD-23205
Title : The empty AAV13 capsid
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-23
Resolution : 2.76 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

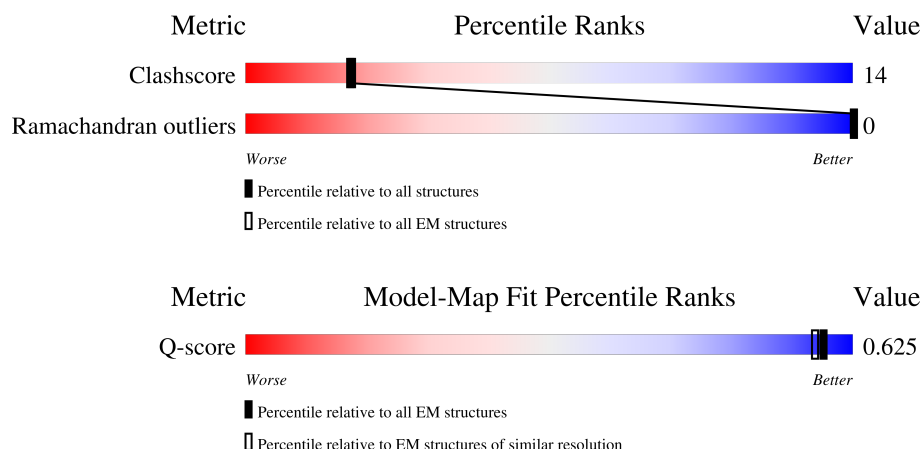
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.76 Å.

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



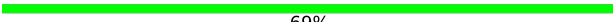
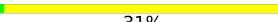
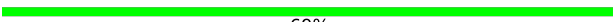
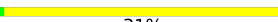
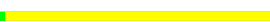
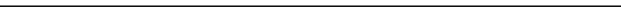
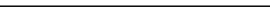
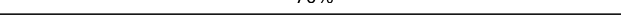
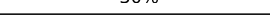
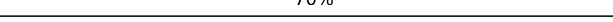
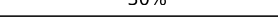
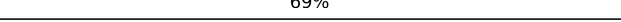
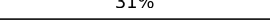
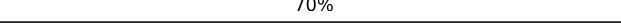
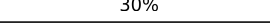
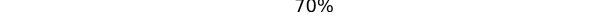
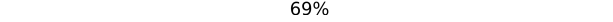
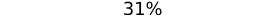
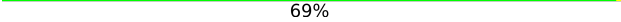
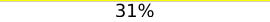
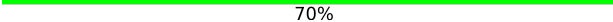
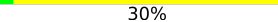
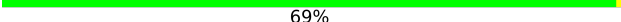
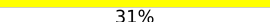
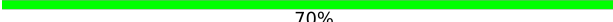
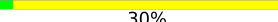
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Q-score	-	25397	10642 (2.26 - 3.26)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	517	
1	2	517	
1	3	517	
1	4	517	
1	5	517	

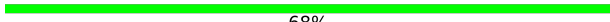
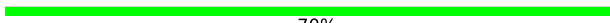
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Mol	Chain	Length	Quality of chain	
1	6	517	 69%	 31%
1	7	517	 69%	 31%
1	8	517	 69%	 31%
1	A	517	 70%	 30%
1	B	517	 70%	 30%
1	C	517	 70%	 30%
1	D	517	 70%	 30%
1	E	517	 69%	 31%
1	F	517	 70%	 30%
1	G	517	 69%	 31%
1	H	517	 68%	 32%
1	I	517	 69%	 31%
1	J	517	 70%	 30%
1	K	517	 70%	 30%
1	L	517	 70%	 30%
1	M	517	 70%	 30%
1	N	517	 69%	 31%
1	O	517	 70%	 30%
1	P	517	 70%	 30%
1	Q	517	 69%	 31%
1	R	517	 69%	 31%
1	S	517	 70%	 30%
1	T	517	 69%	 31%
1	U	517	 70%	 30%
1	V	517	 69%	 31%

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Mol	Chain	Length	Quality of chain	
1	W	517	 68%	32%
1	X	517	 69%	31%
1	Y	517	 69%	31%
1	Z	517	 69%	31%
1	a	517	 70%	30%
1	b	517	 70%	30%
1	c	517	 69%	31%
1	d	517	 69%	31%
1	e	517	 69%	31%
1	f	517	 70%	30%
1	g	517	 70%	30%
1	h	517	 69%	31%
1	i	517	 69%	31%
1	j	517	 70%	30%
1	k	517	 69%	31%
1	l	517	 70%	30%
1	m	517	 69%	31%
1	n	517	 69%	31%
1	o	517	 69%	31%
1	p	517	 70%	30%
1	q	517	 69%	31%
1	r	517	 70%	30%
1	s	517	 69%	31%
1	t	517	 69%	31%
1	u	517	 70%	30%

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Mol	Chain	Length	Quality of chain	
1	v	517		70% 30%
1	w	517		69% 31%
1	x	517		69% 31%
1	y	517		69% 31%
1	z	517		70% 30%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 248820 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	B	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	C	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	D	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	E	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	F	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	G	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	H	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	I	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	J	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	K	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	L	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	M	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	N	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	O	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	P	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	Q	517	Total 4147	C 2615	N 727	O 790	S 15	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	S	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	T	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	U	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	V	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	W	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	X	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	Y	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	Z	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	a	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	b	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	c	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	d	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	e	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	f	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	g	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	h	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	i	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	j	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	k	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	l	517	Total 4147	C 2615	N 727	O 790	S 15	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	n	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	o	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	p	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	q	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	r	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	s	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	t	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	u	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	v	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	w	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	x	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	y	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	z	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	1	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	2	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	3	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	4	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	5	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	6	517	Total 4147	C 2615	N 727	O 790	S 15	1	0
1	7	517	Total 4147	C 2615	N 727	O 790	S 15	1	0

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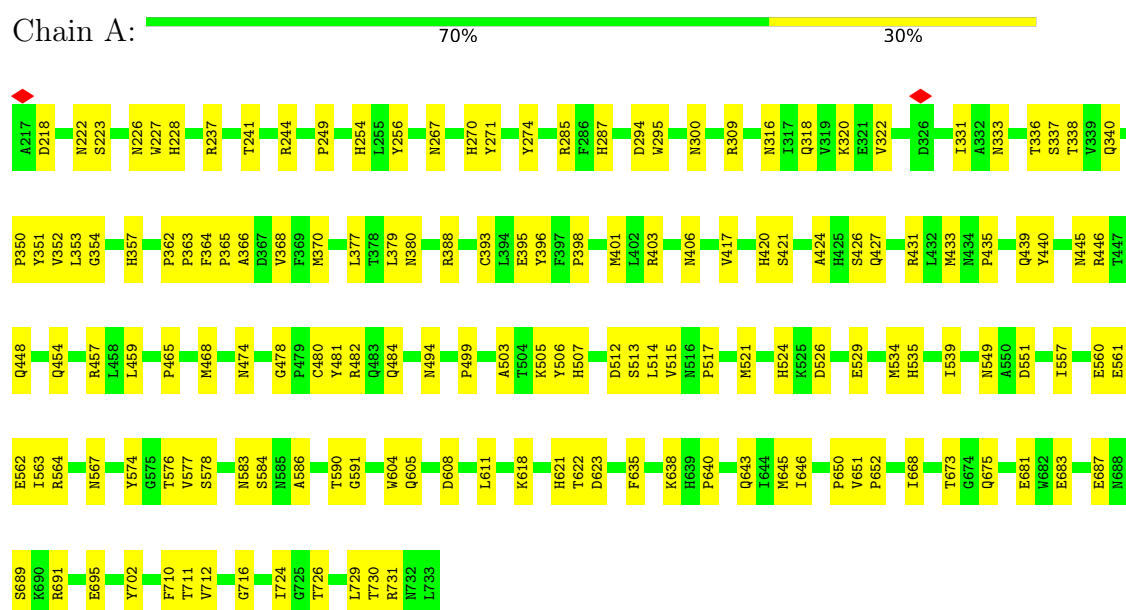
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	517	Total	C	N	O	S	1	0
			4147	2615	727	790	15		

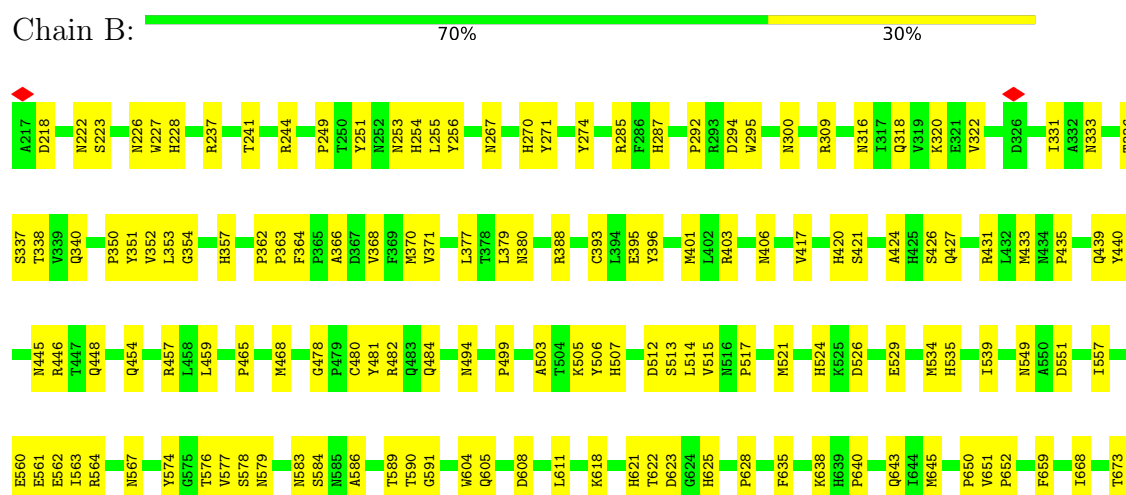
3 Residue-property plots

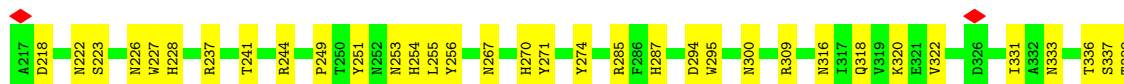
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

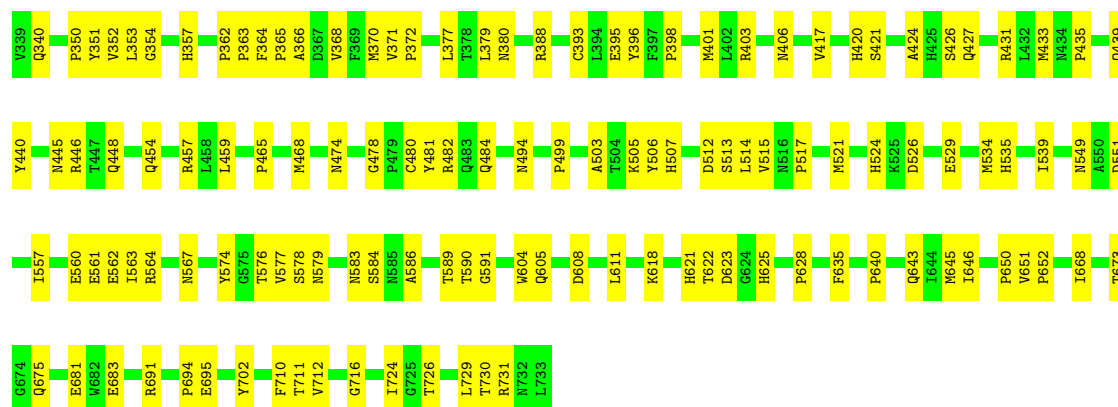
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein

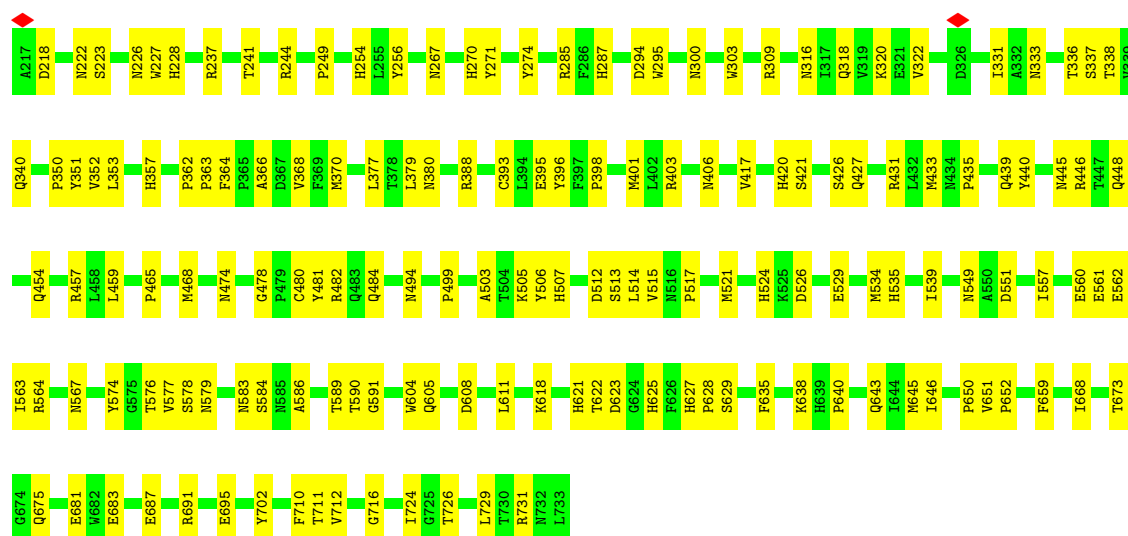






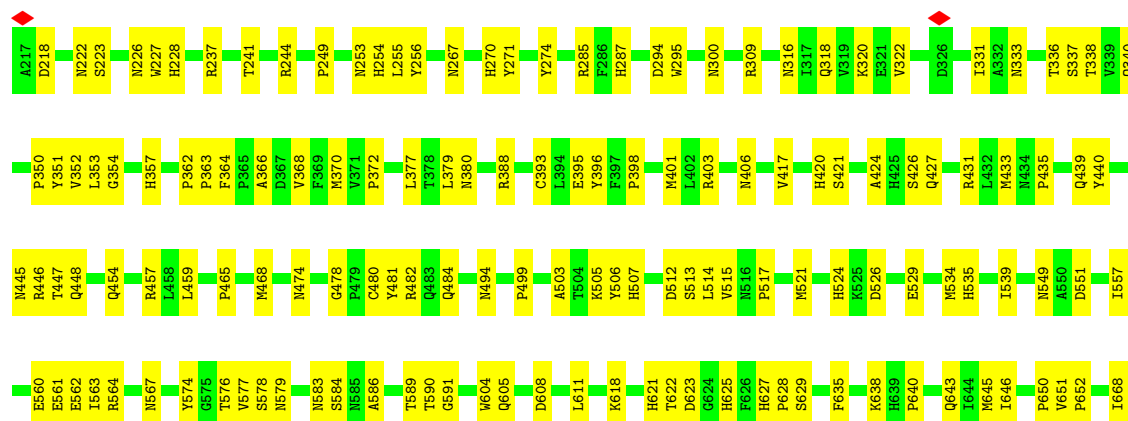
• Molecule 1: Capsid protein

Chain F: 70% 30%



• Molecule 1: Capsid protein

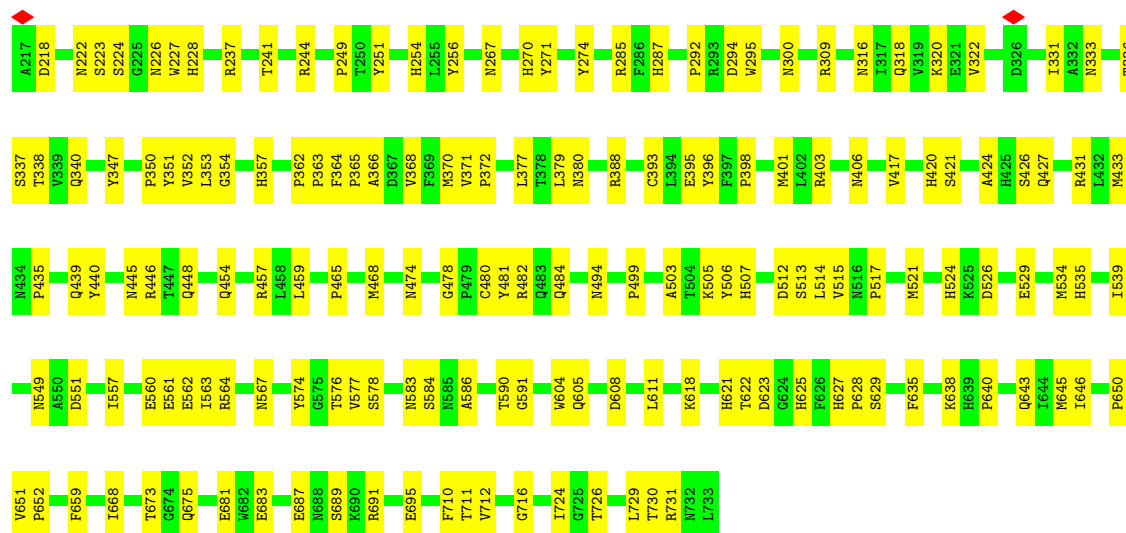
Chain G: 69% 31%





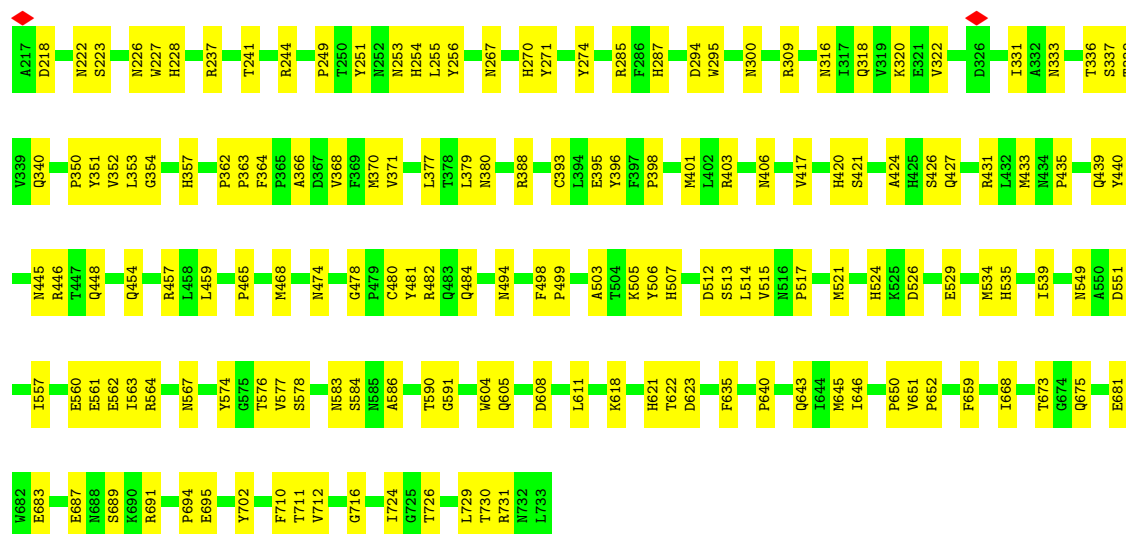
• Molecule 1: Capsid protein

Chain H: 68% 32%



• Molecule 1: Capsid protein

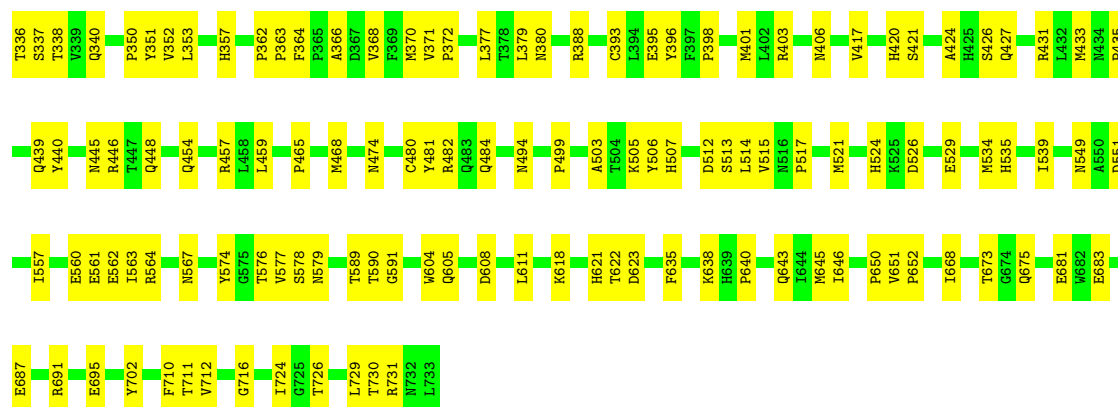
Chain I: 69% 31%



• Molecule 1: Capsid protein

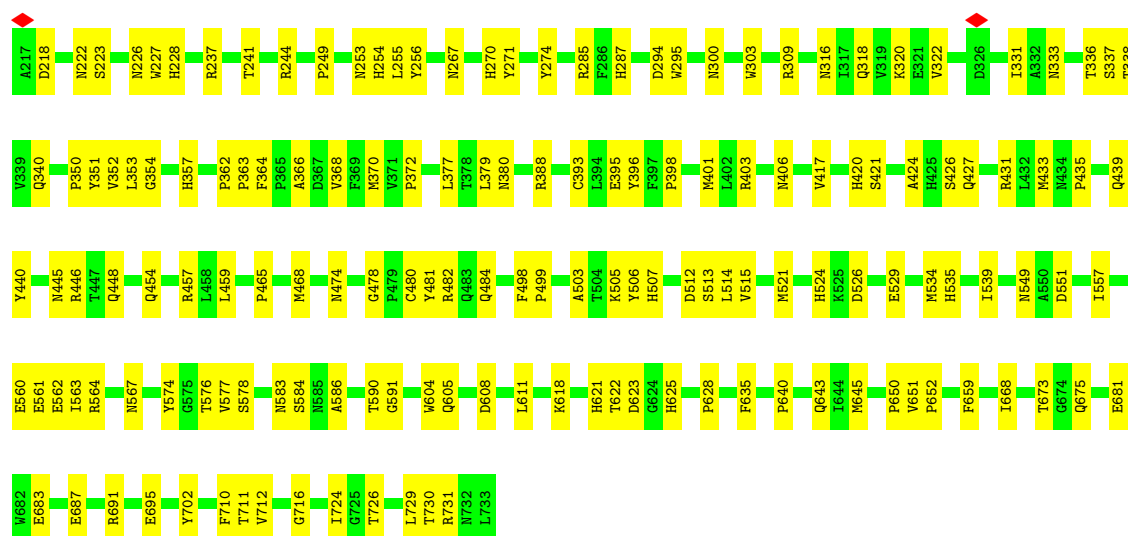
Chain J: 70% 30%





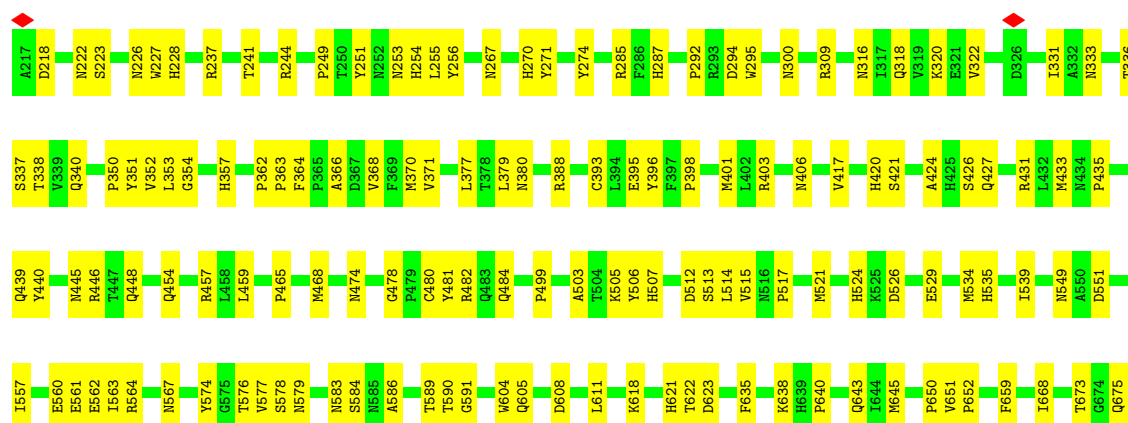
• Molecule 1: Capsid protein

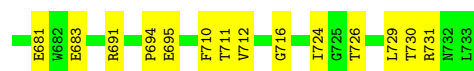
Chain K:  70% 30%



• Molecule 1: Capsid protein

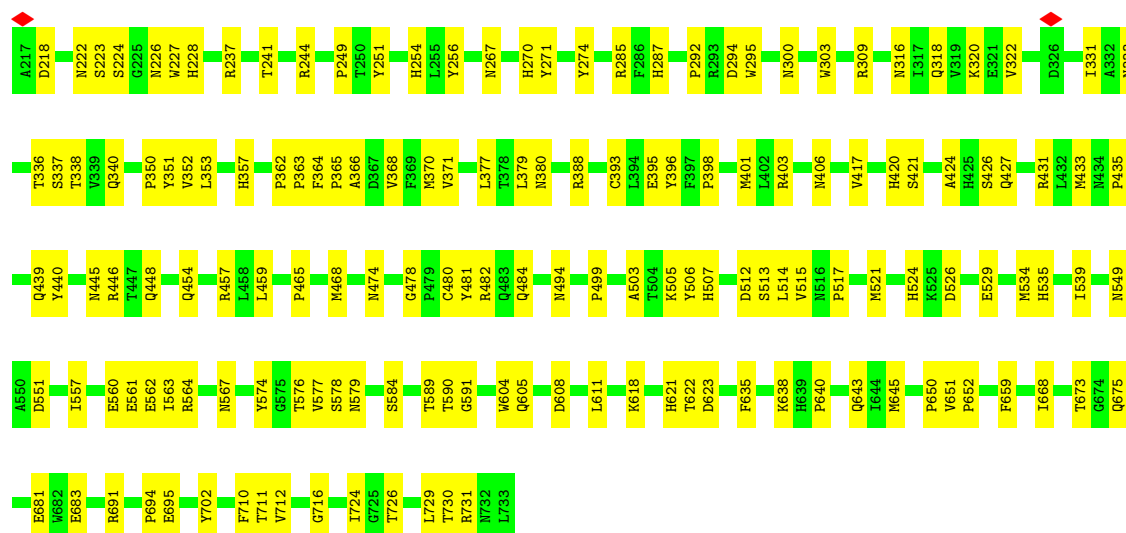
Chain L:  70% 30%





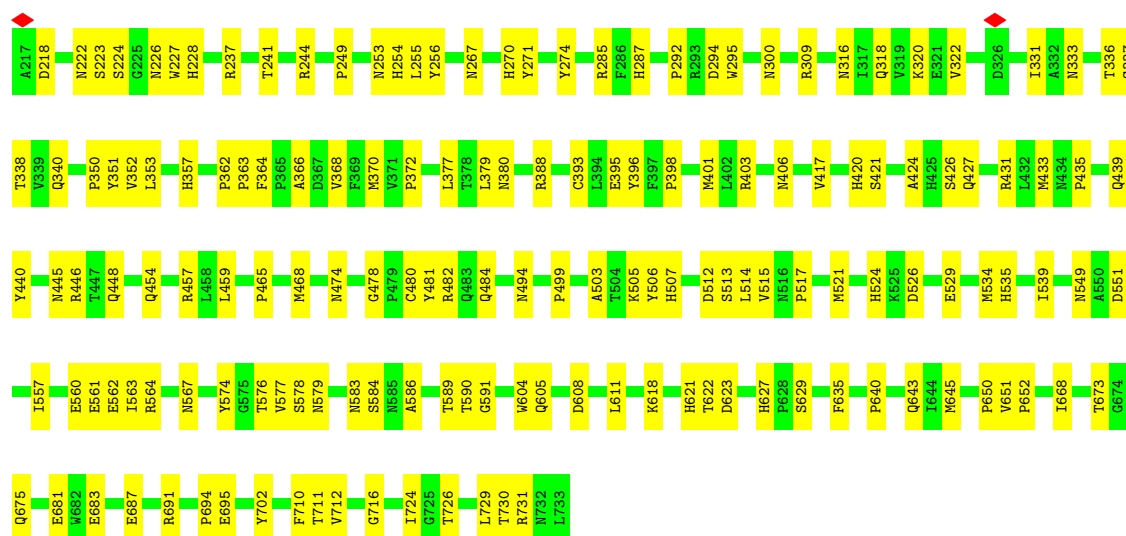
• Molecule 1: Capsid protein

Chain M: 70% 30%



• Molecule 1: Capsid protein

Chain N: 69% 31%



• Molecule 1: Capsid protein

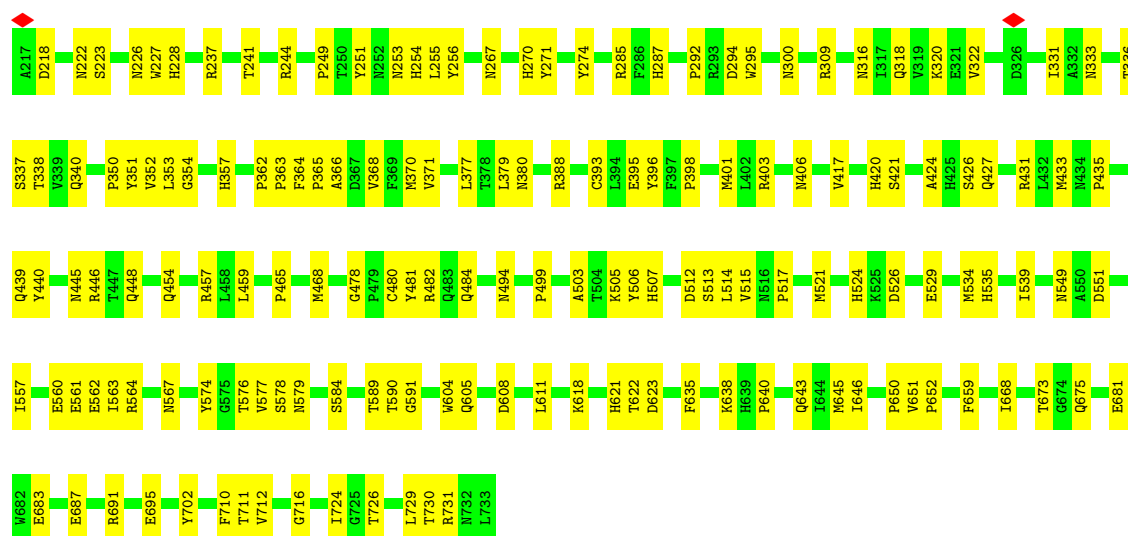
Chain O: 70% 30%





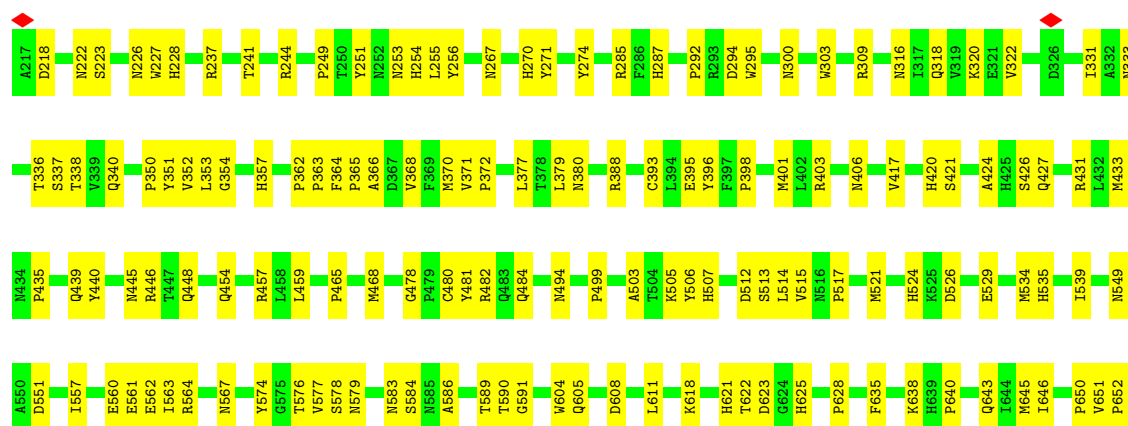
• Molecule 1: Capsid protein

Chain P: 70% 30%



• Molecule 1: Capsid protein

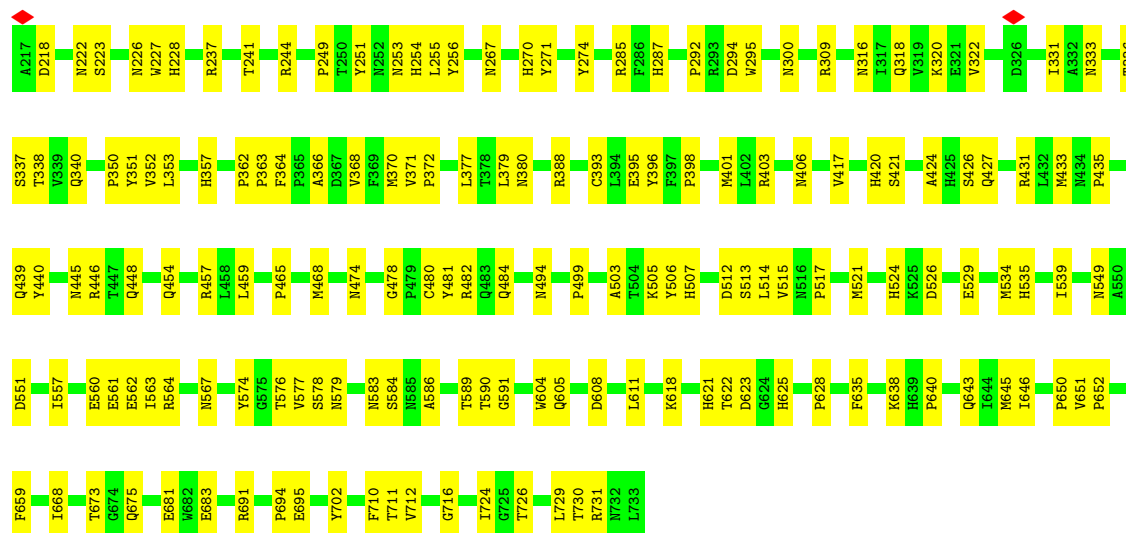
Chain Q: 69% 31%





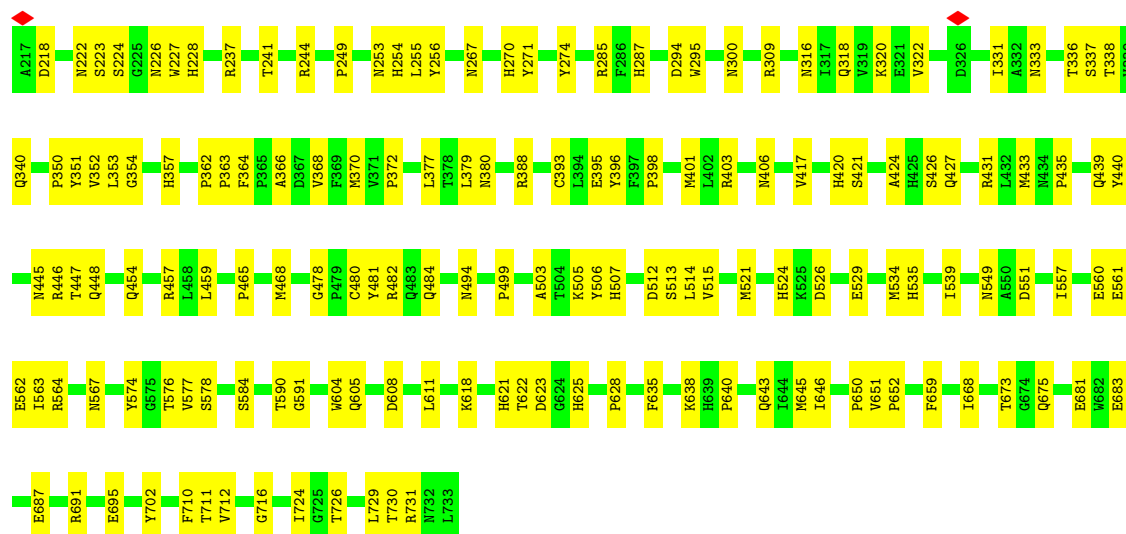
• Molecule 1: Capsid protein

Chain R: 69% 31%



• Molecule 1: Capsid protein

Chain S: 70% 30%



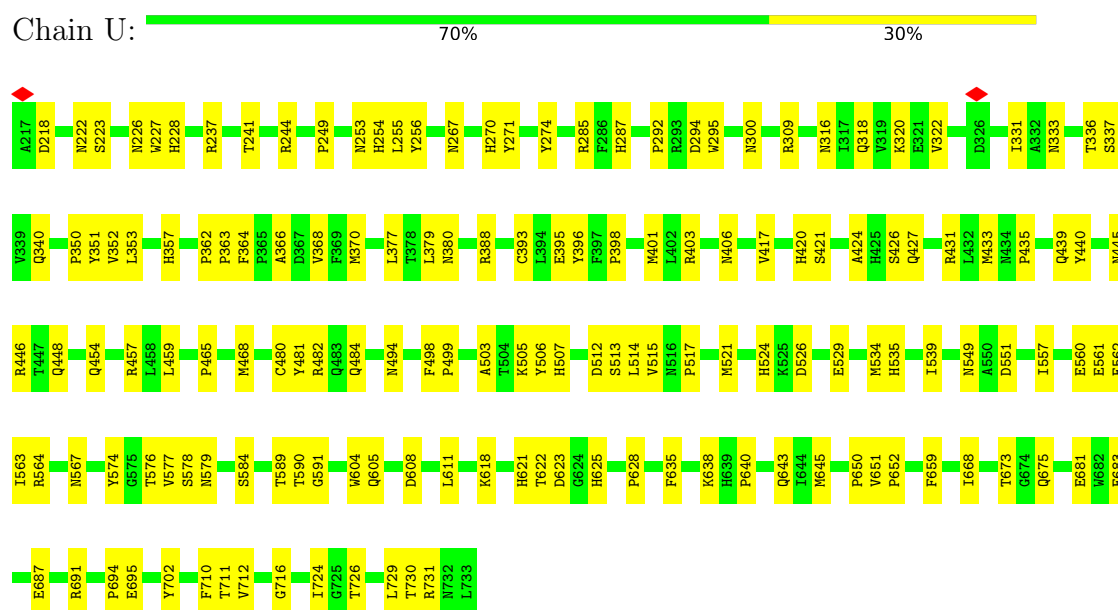
• Molecule 1: Capsid protein

Chain T: 69% 31%

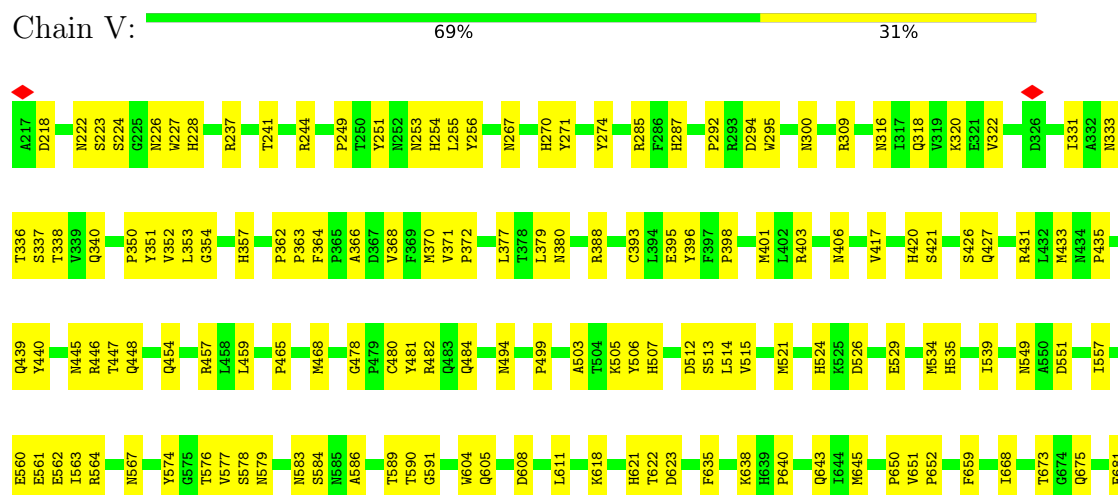




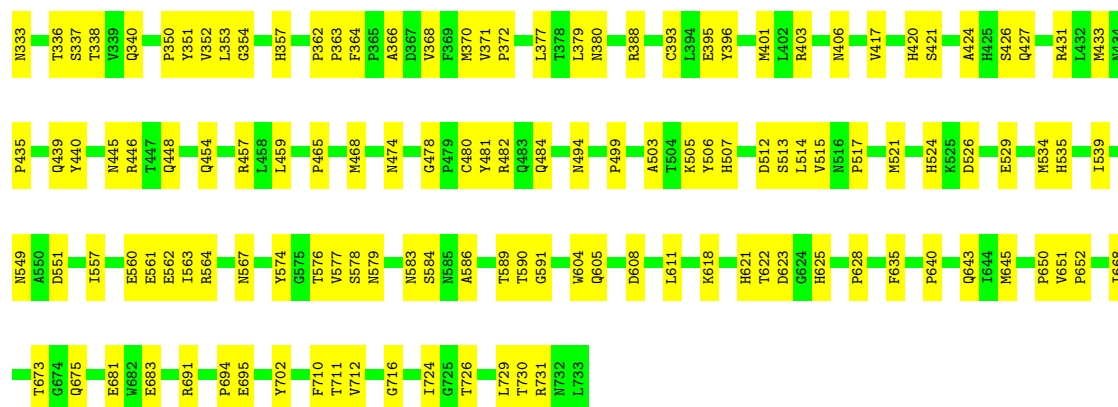
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein

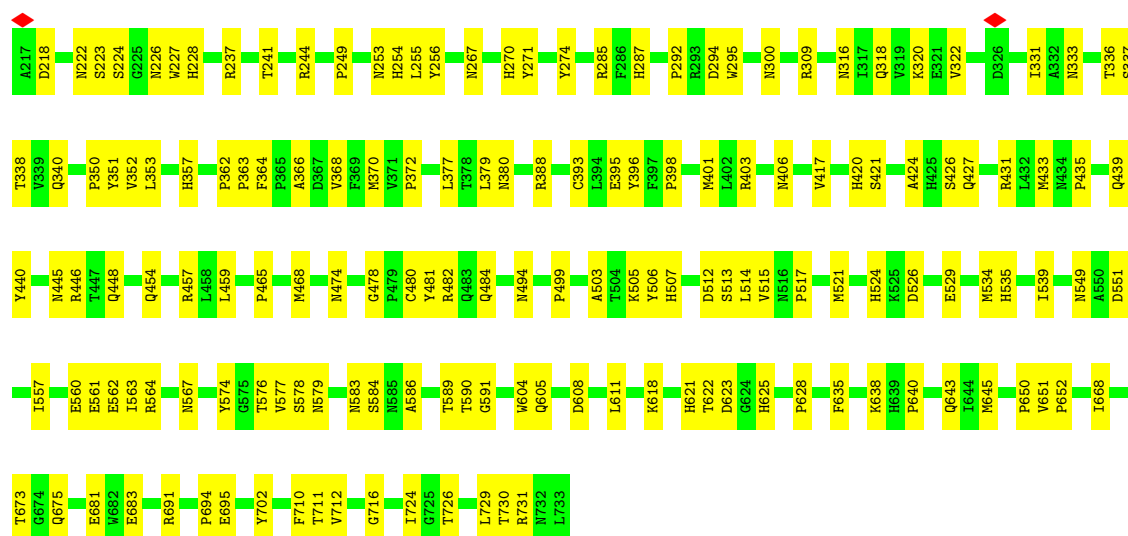






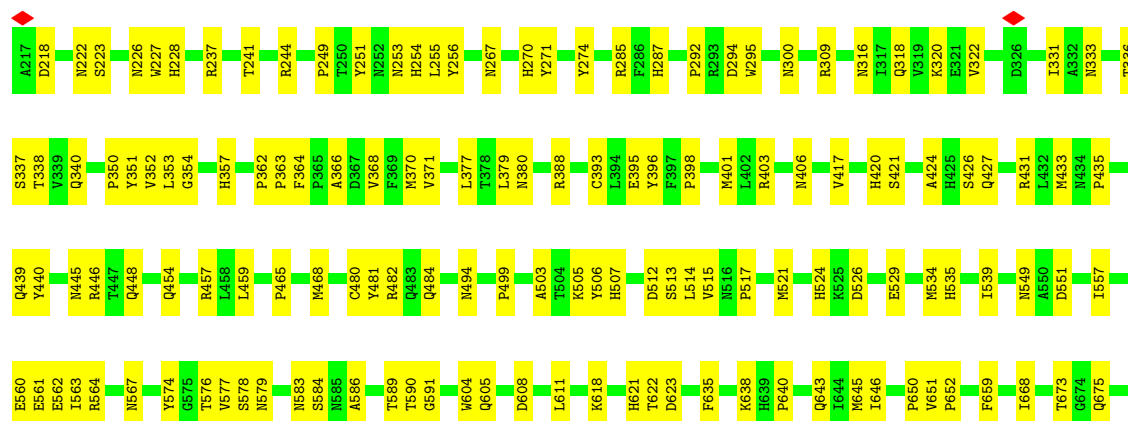
• Molecule 1: Capsid protein

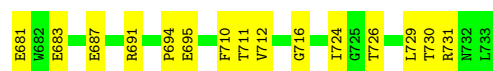
Chain Z: 69% 31%



• Molecule 1: Capsid protein

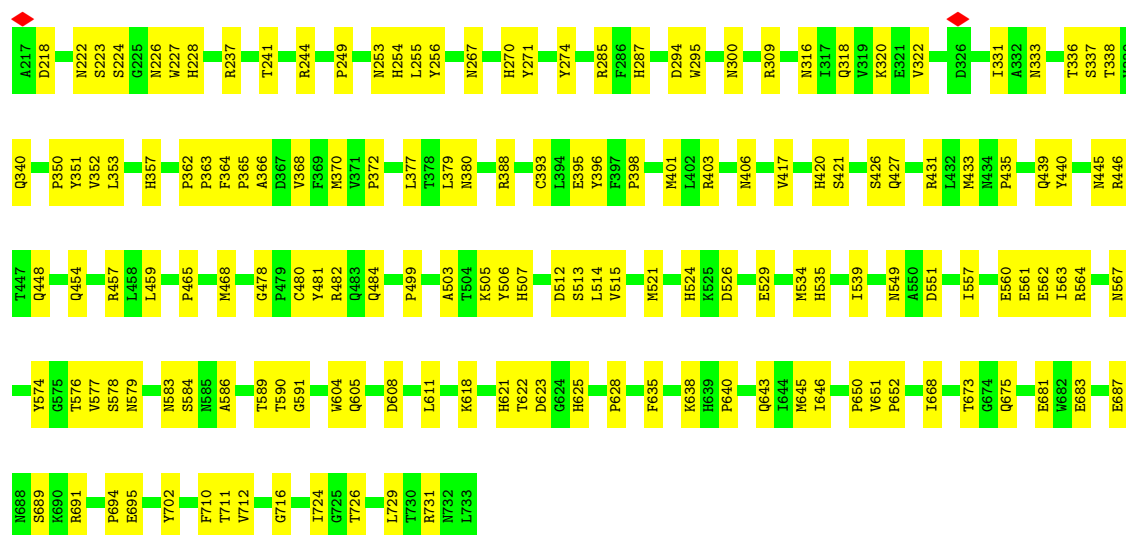
Chain a: 70% 30%





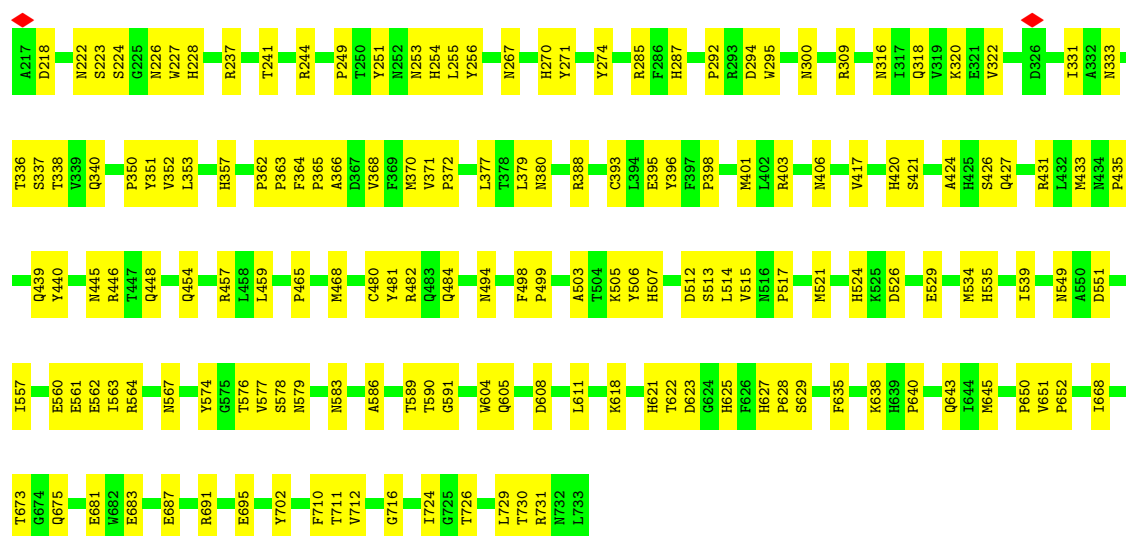
• Molecule 1: Capsid protein

Chain b: 70% 30%



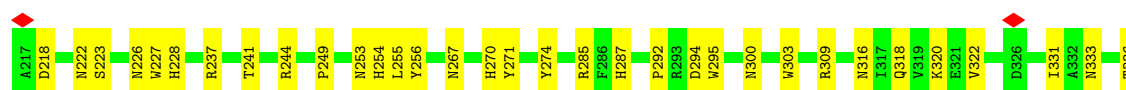
• Molecule 1: Capsid protein

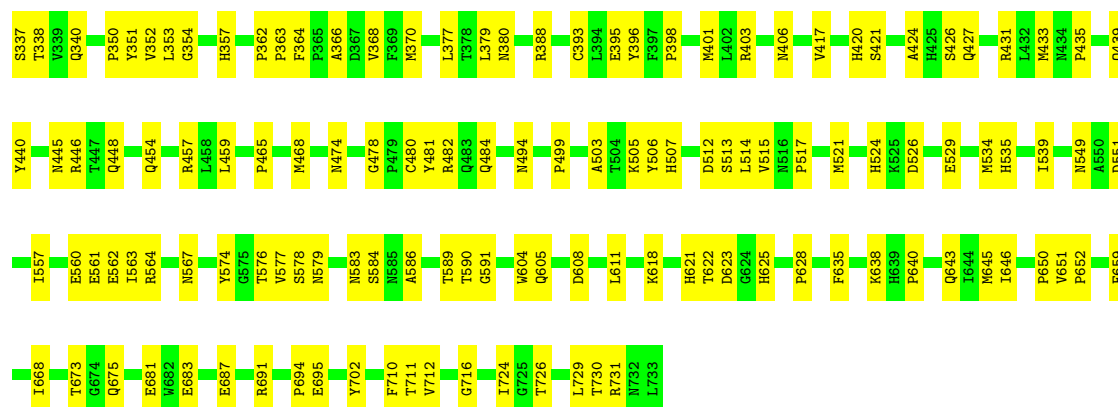
Chain c: 69% 31%



• Molecule 1: Capsid protein

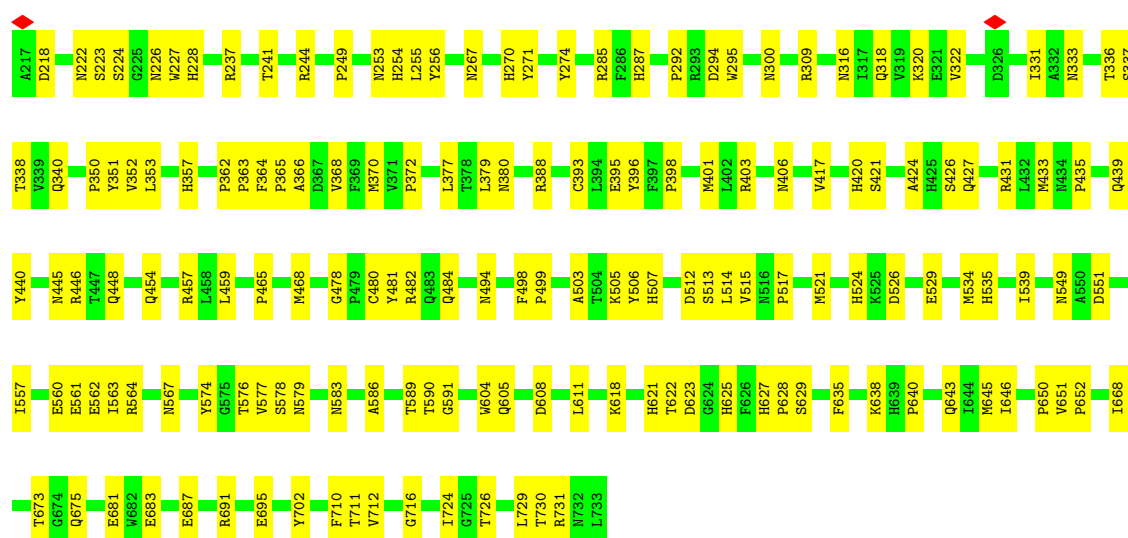
Chain d: 69% 31%





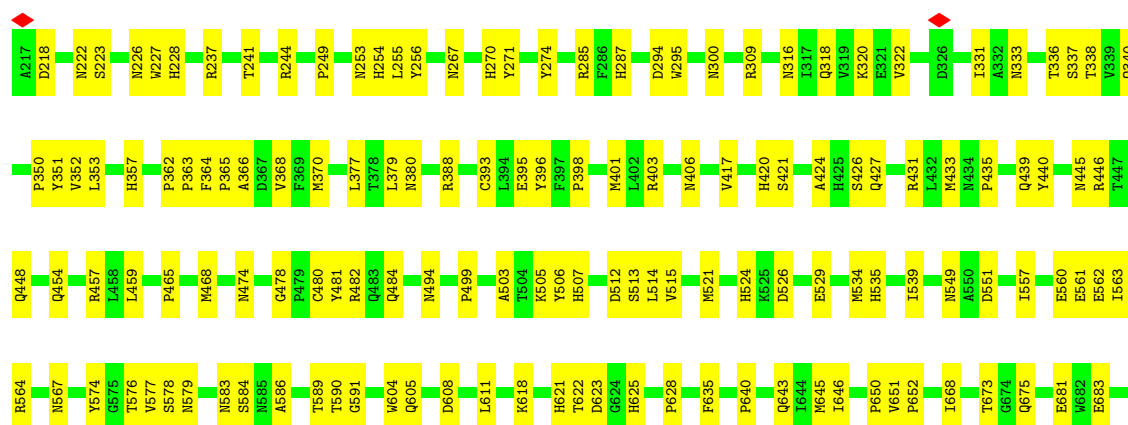
• Molecule 1: Capsid protein

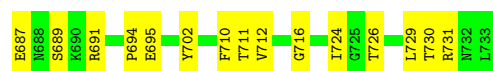
Chain e: 69% 31%



• Molecule 1: Capsid protein

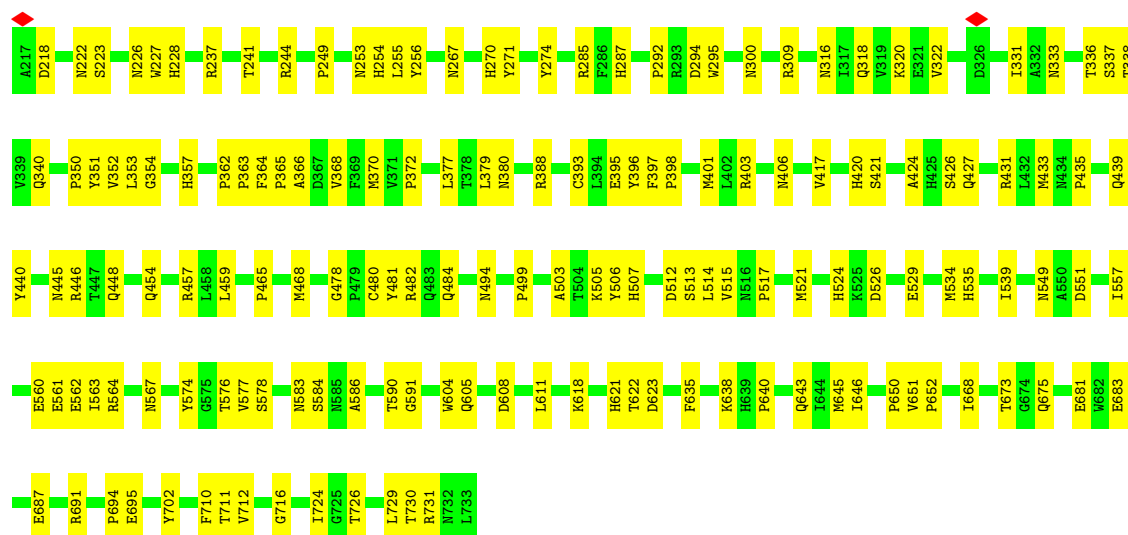
Chain f: 70% 30%





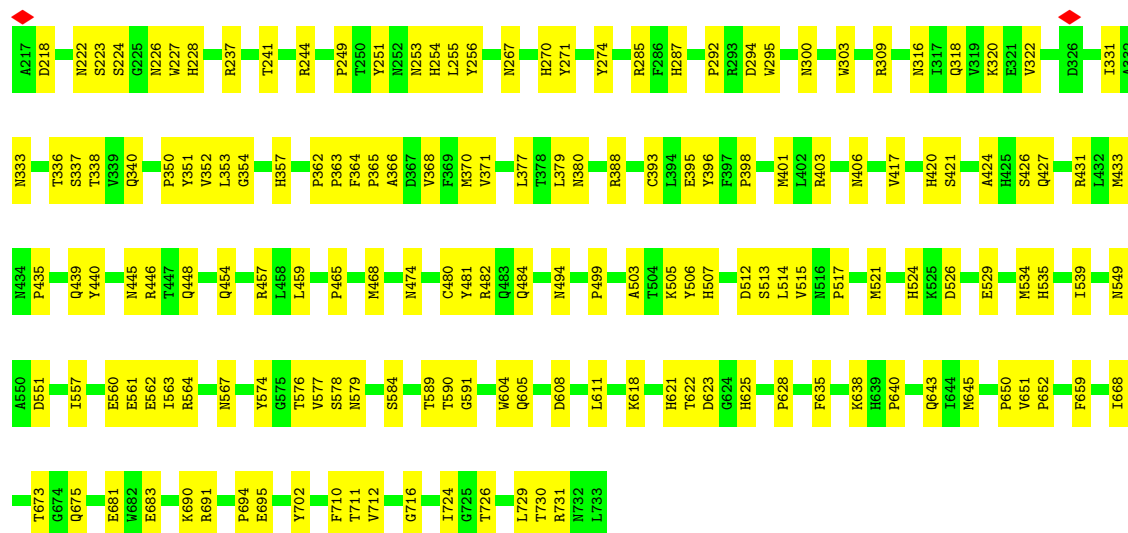
• Molecule 1: Capsid protein

Chain g: 70% 30%



• Molecule 1: Capsid protein

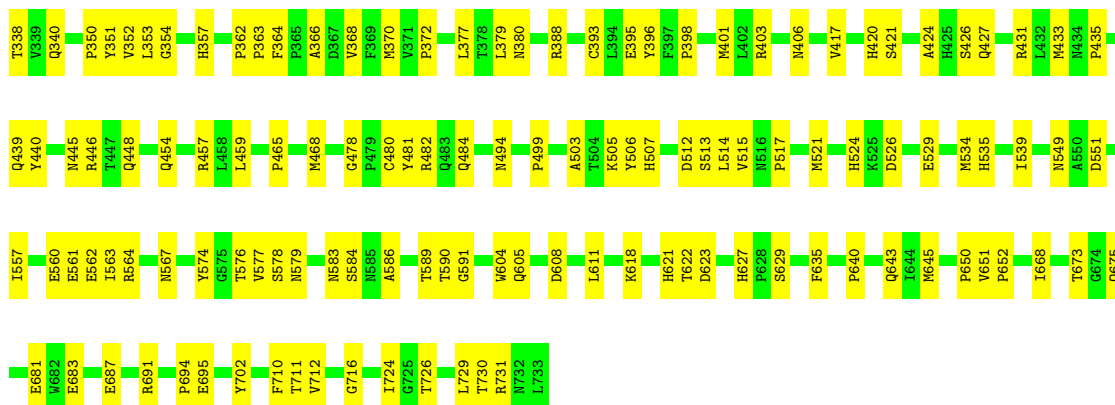
Chain h: 69% 31%



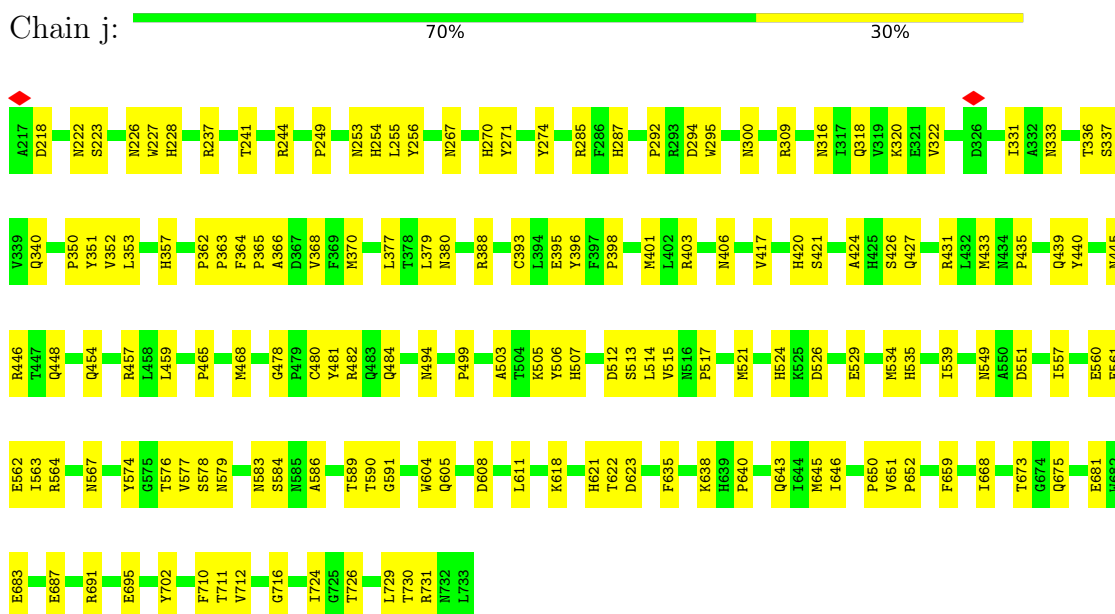
• Molecule 1: Capsid protein

Chain i: 69% 31%

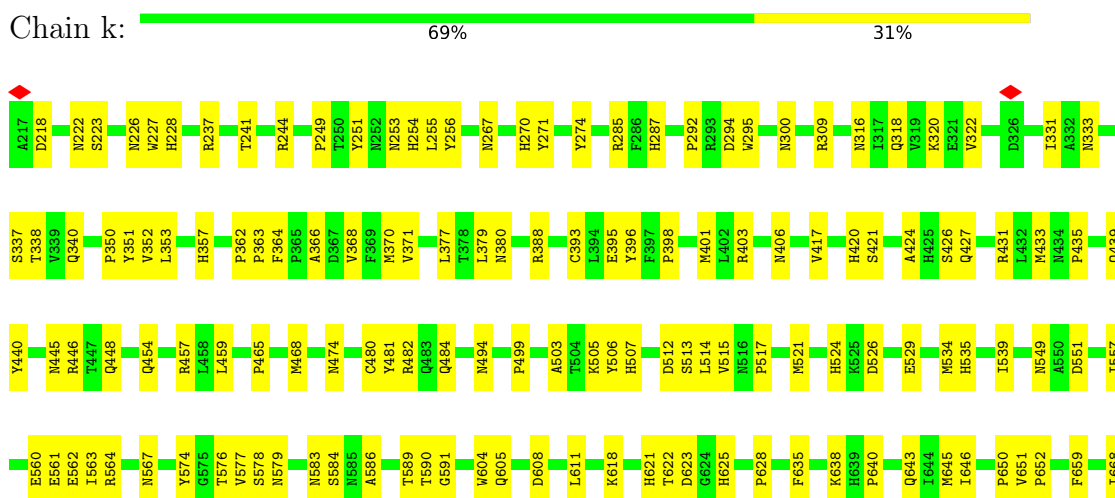




• Molecule 1: Capsid protein

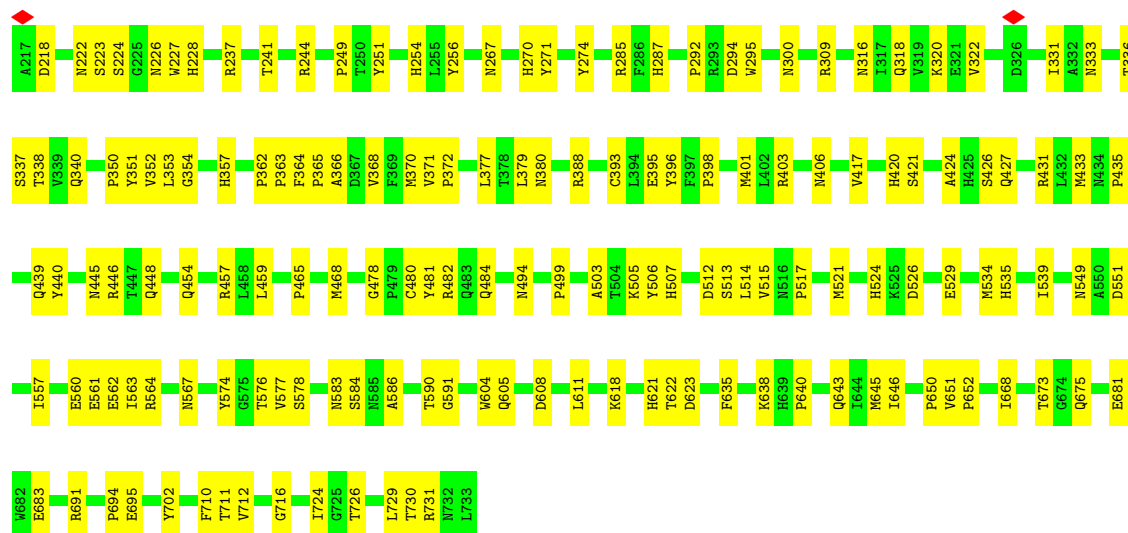


• Molecule 1: Capsid protein

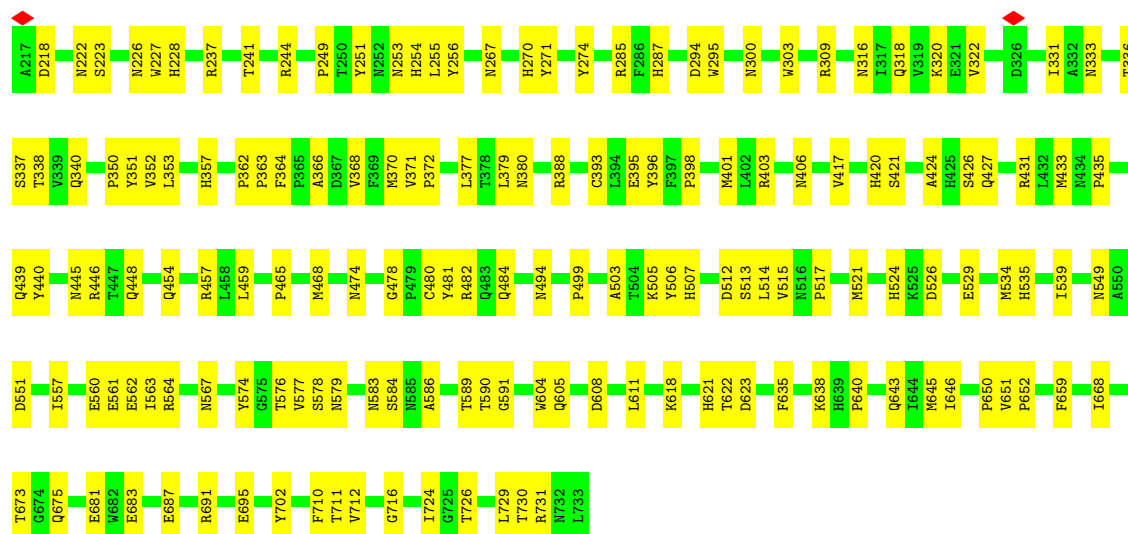




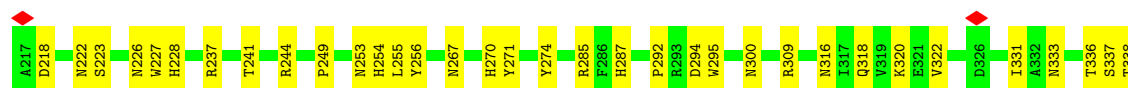
• Molecule 1: Capsid protein

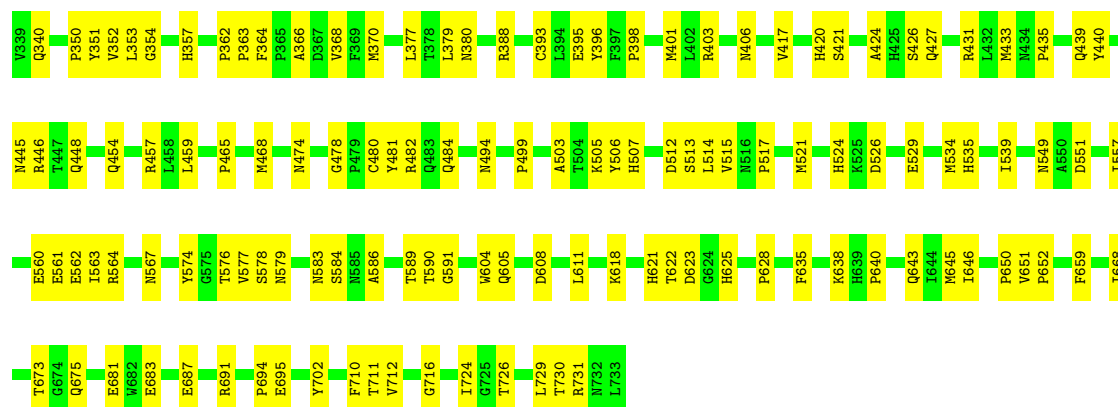


• Molecule 1: Capsid protein



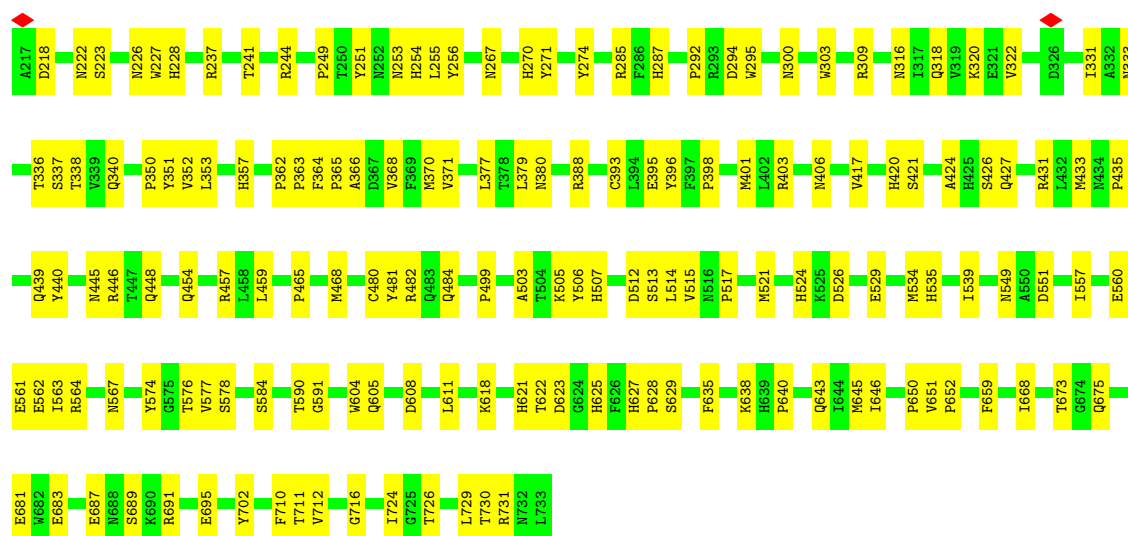
• Molecule 1: Capsid protein





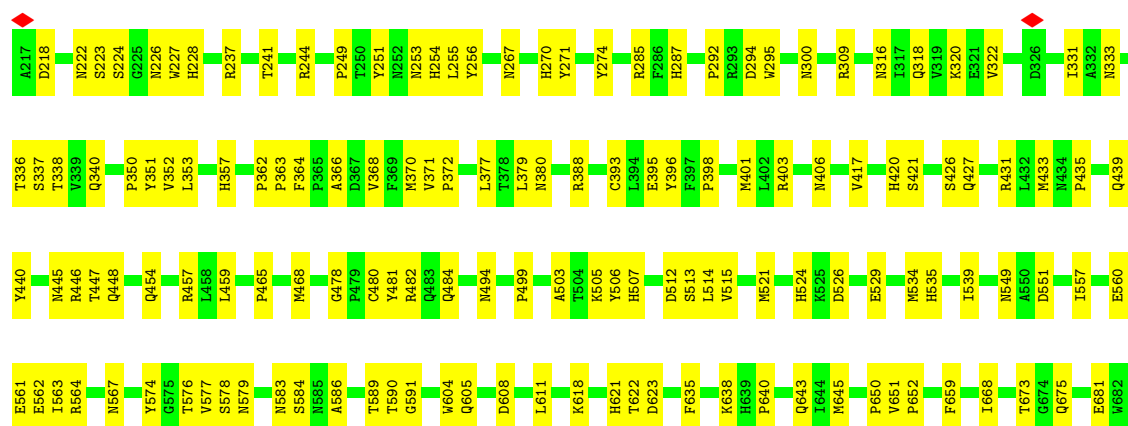
• Molecule 1: Capsid protein

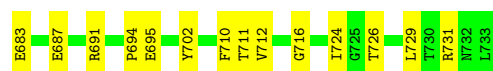
Chain o: 69% 31%



• Molecule 1: Capsid protein

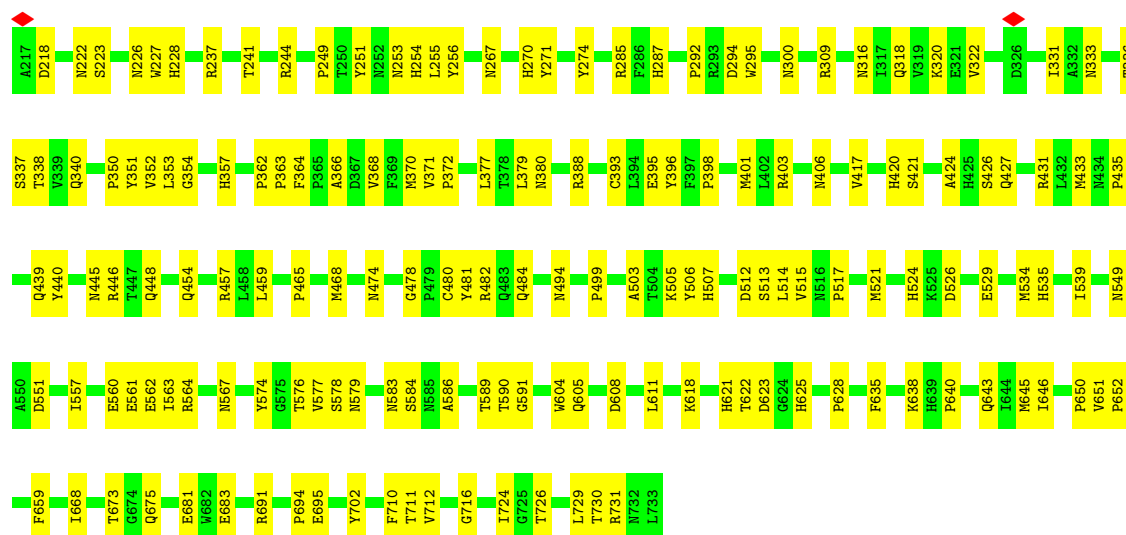
Chain p: 70% 30%





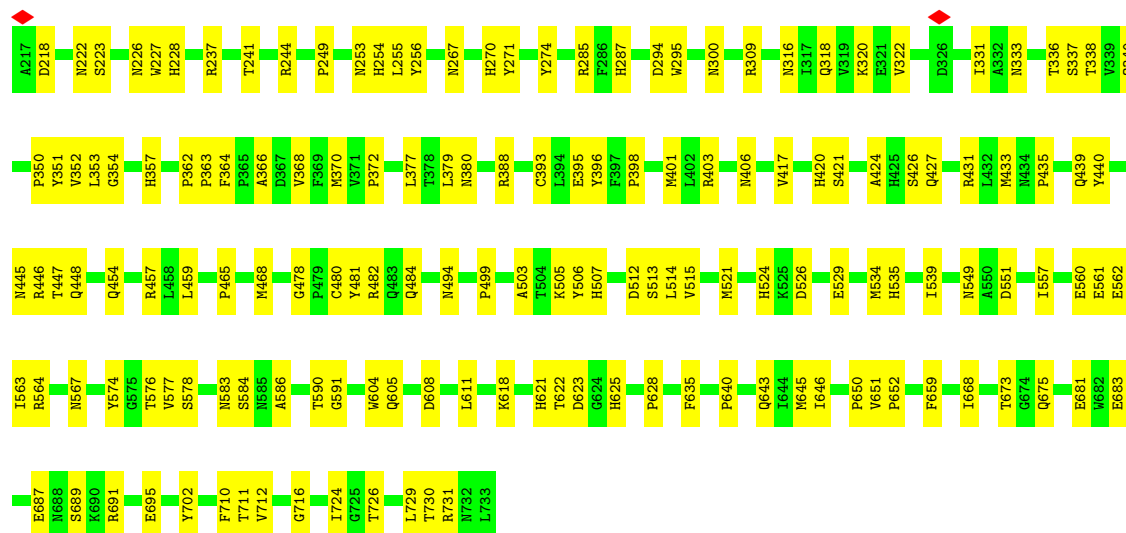
• Molecule 1: Capsid protein

Chain q: 69% 31%



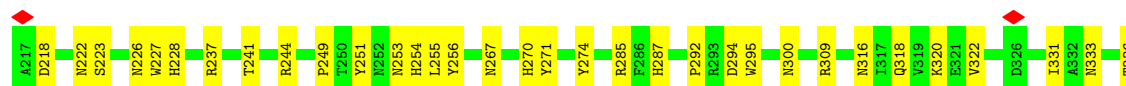
• Molecule 1: Capsid protein

Chain r: 70% 30%



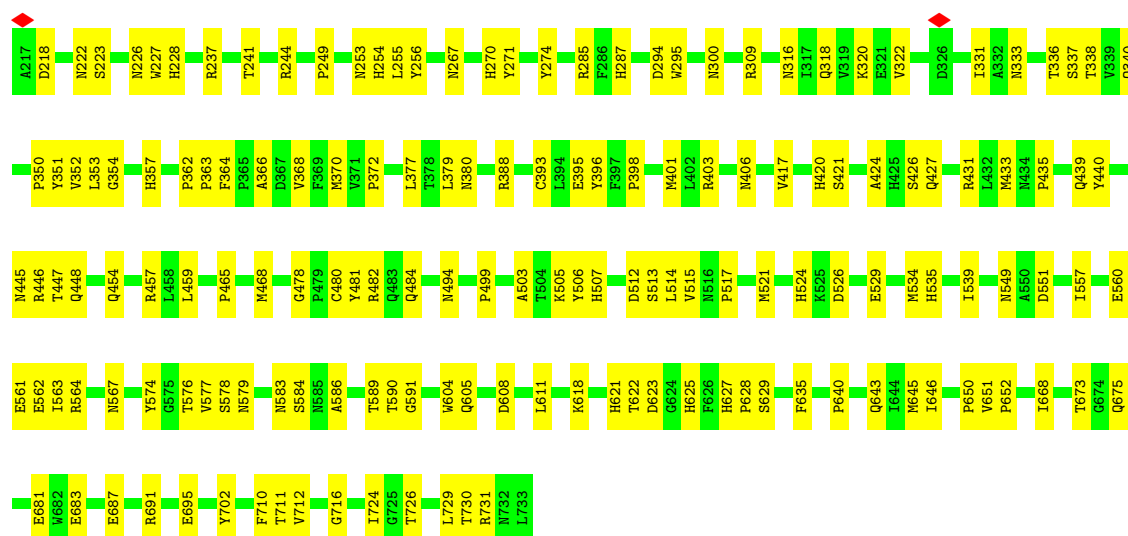
• Molecule 1: Capsid protein

Chain s: 69% 31%

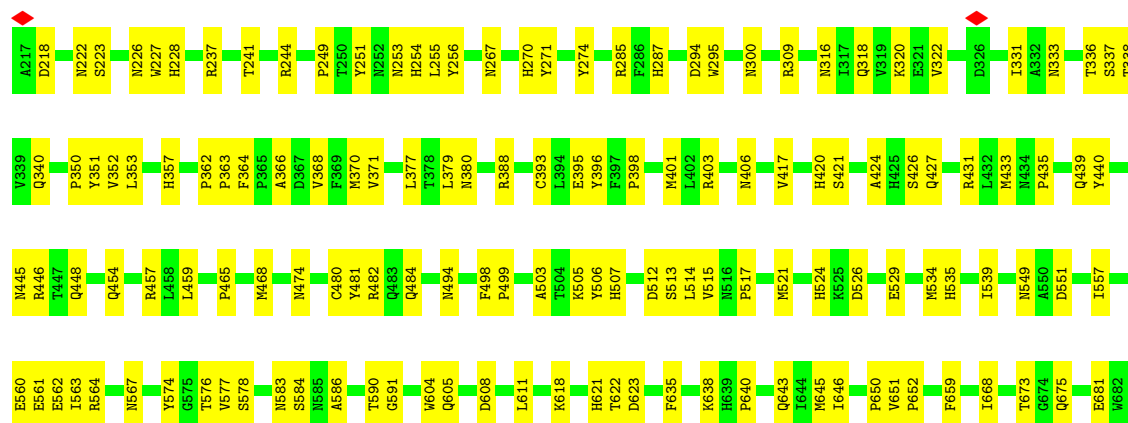


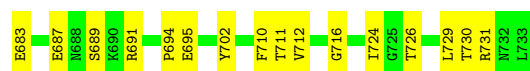


• Molecule 1: Capsid protein



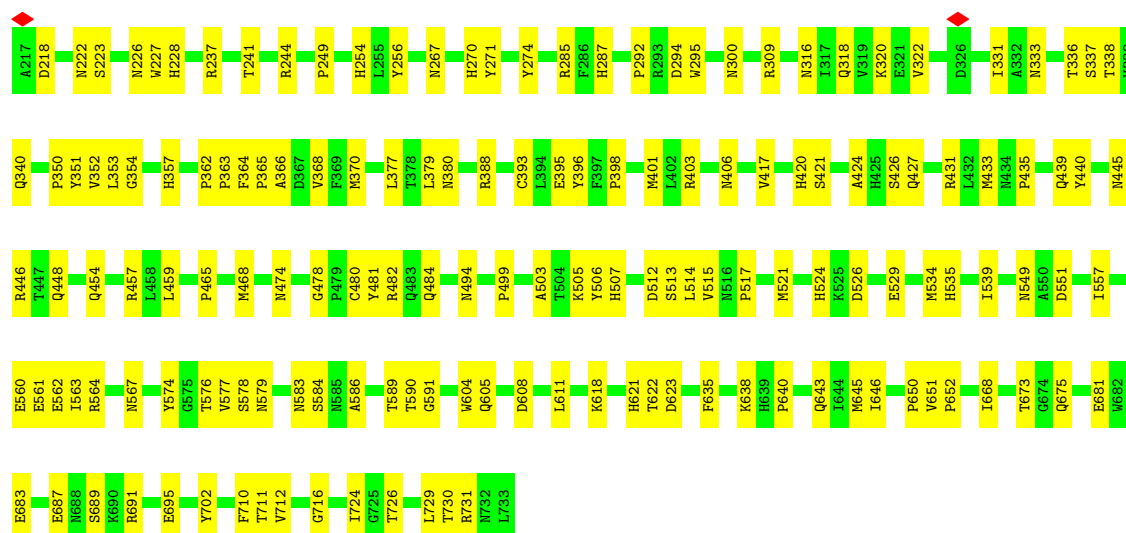
• Molecule 1: Capsid protein





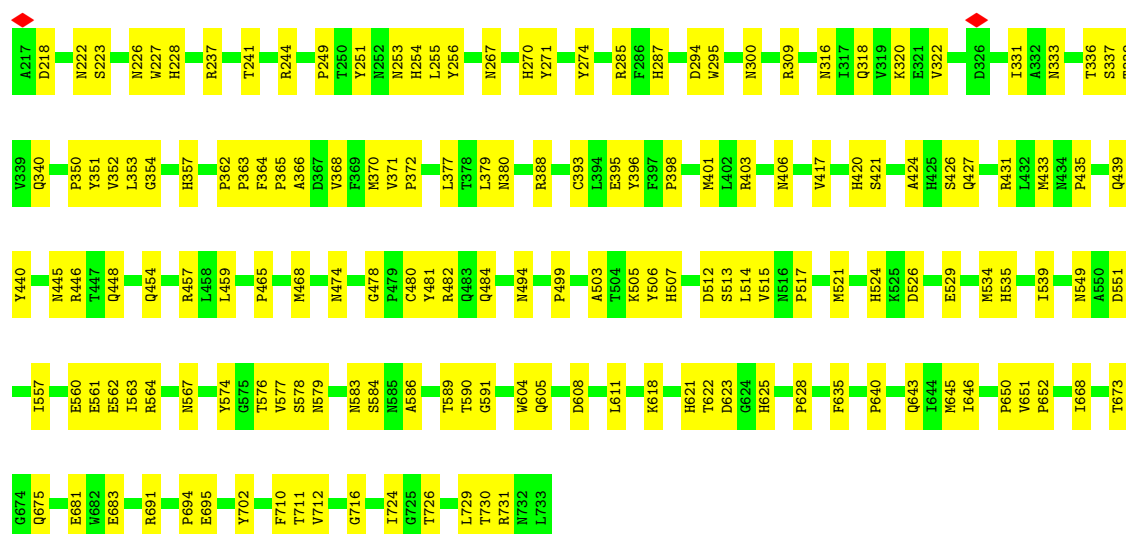
• Molecule 1: Capsid protein

Chain v: 70% 30%



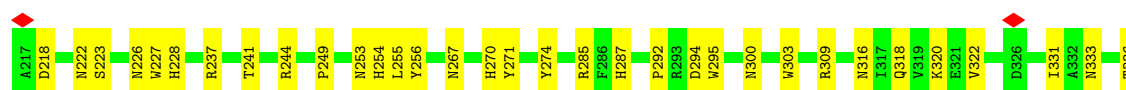
• Molecule 1: Capsid protein

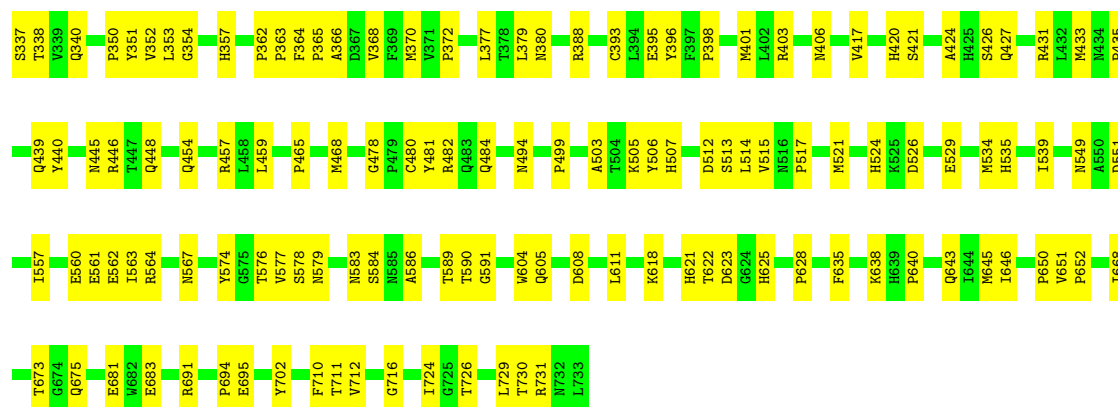
Chain w: 69% 31%



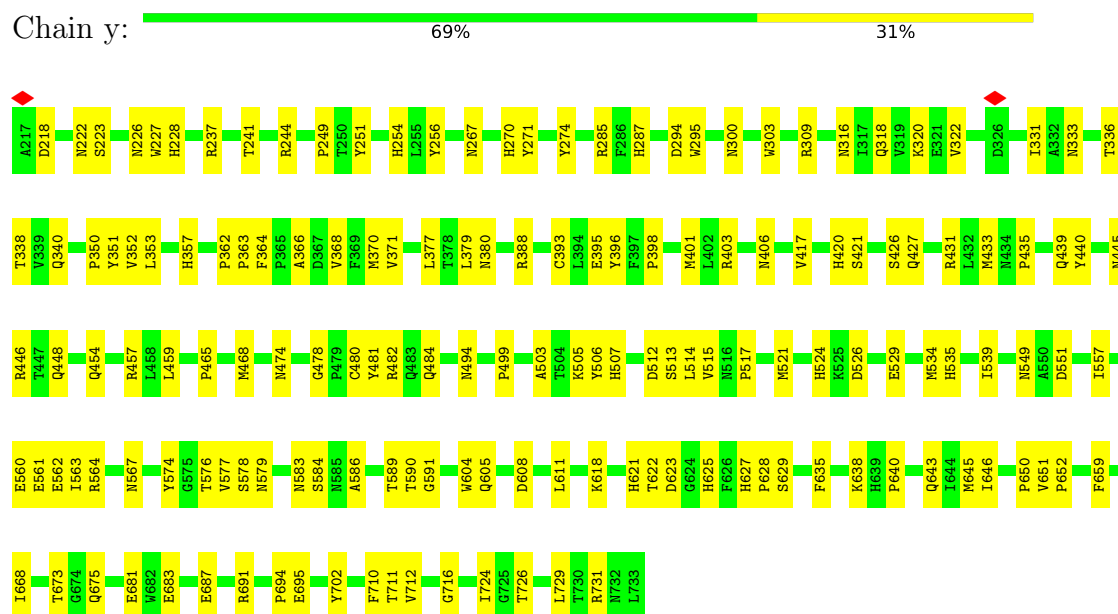
• Molecule 1: Capsid protein

Chain x: 69% 31%

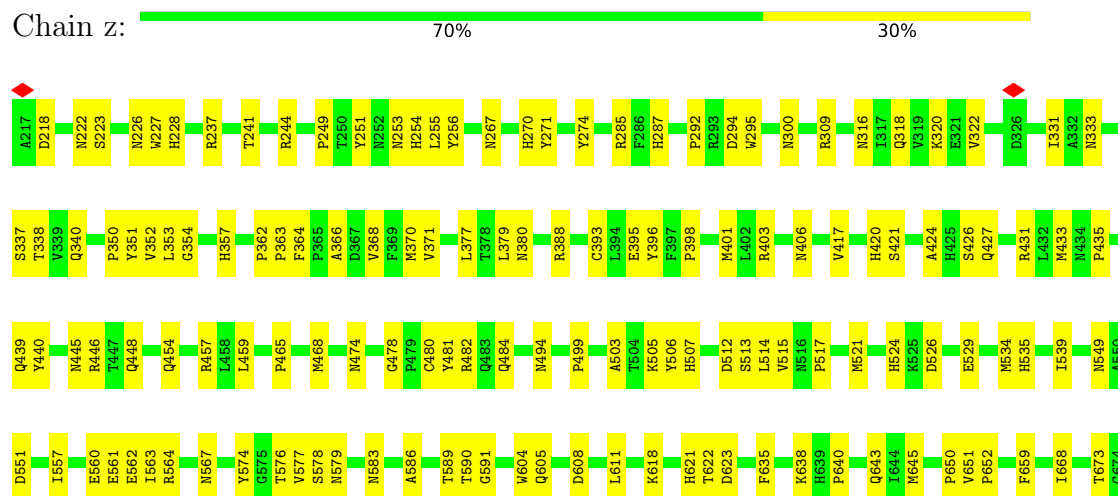


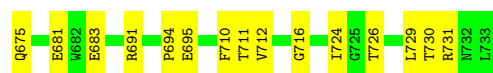


• Molecule 1: Capsid protein



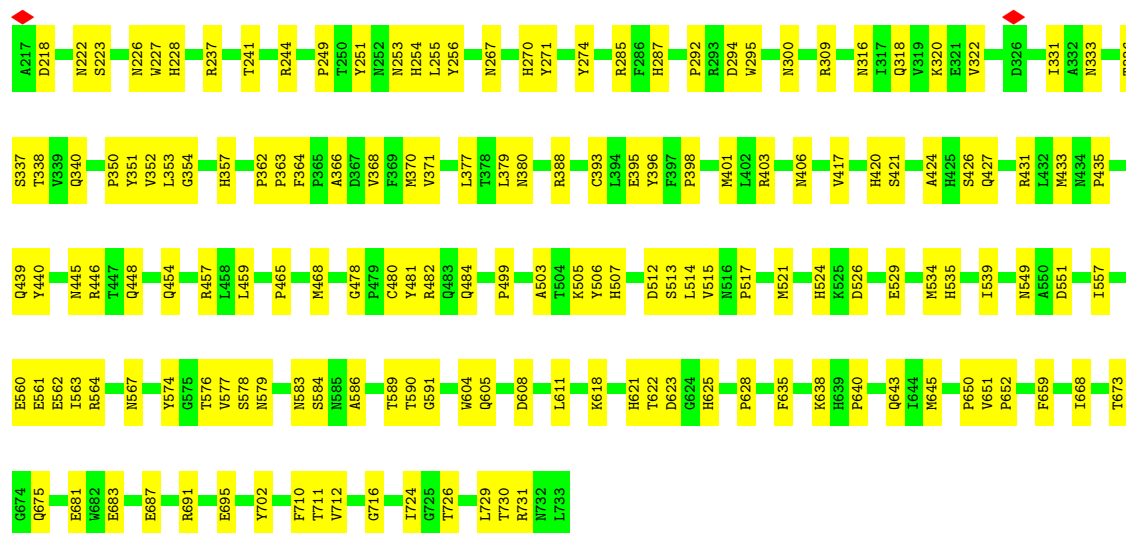
• Molecule 1: Capsid protein





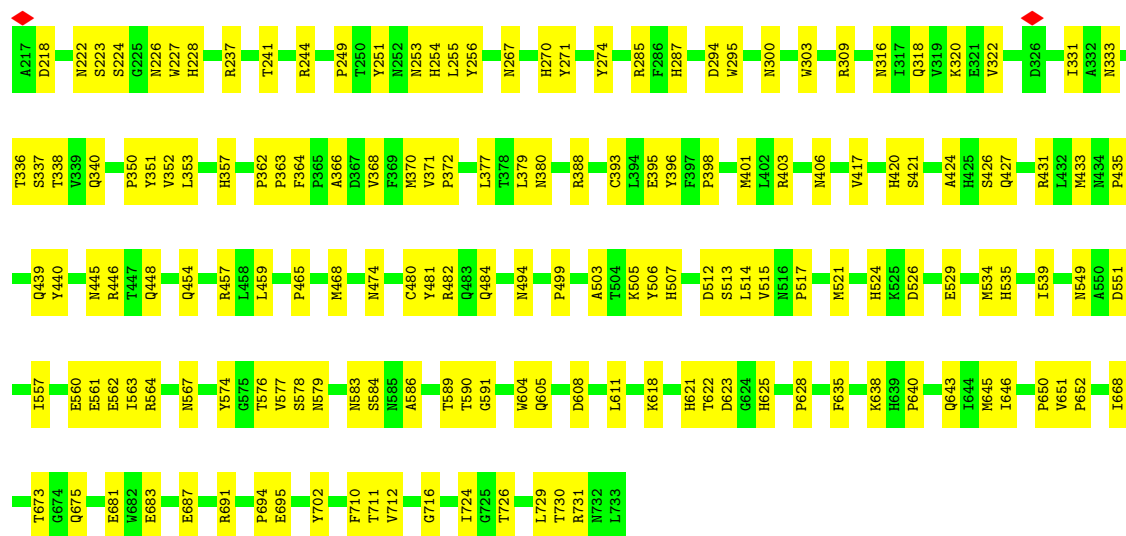
• Molecule 1: Capsid protein

Chain 1: 69% 31%



• Molecule 1: Capsid protein

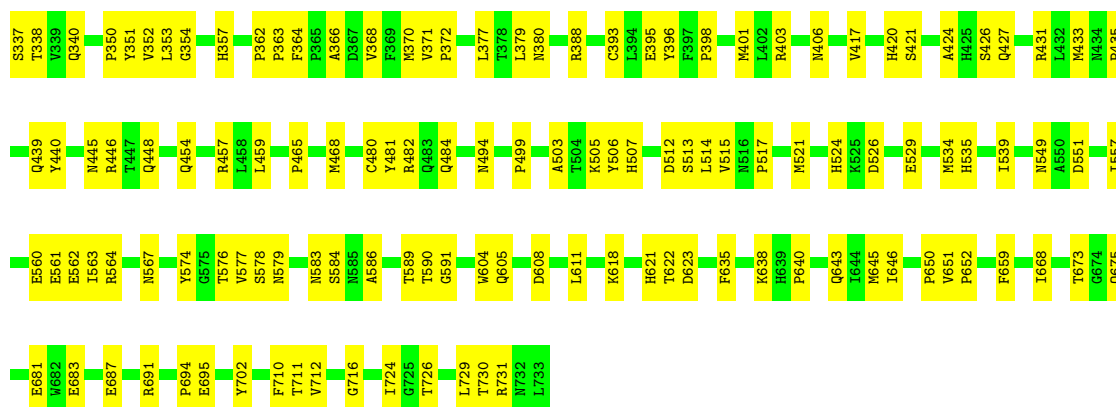
Chain 2: 69% 31%



• Molecule 1: Capsid protein

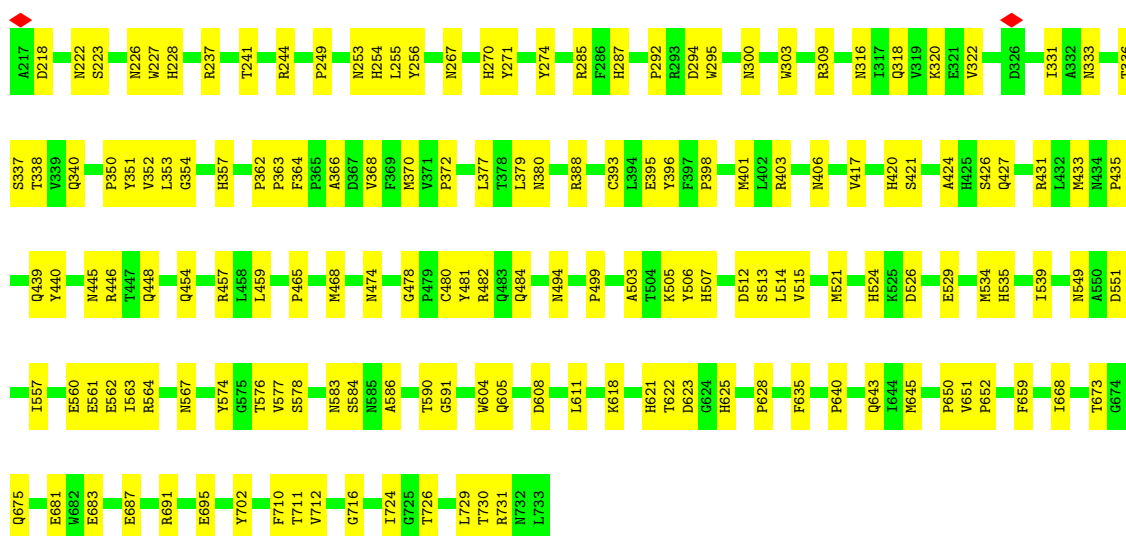
Chain 3: 69% 31%





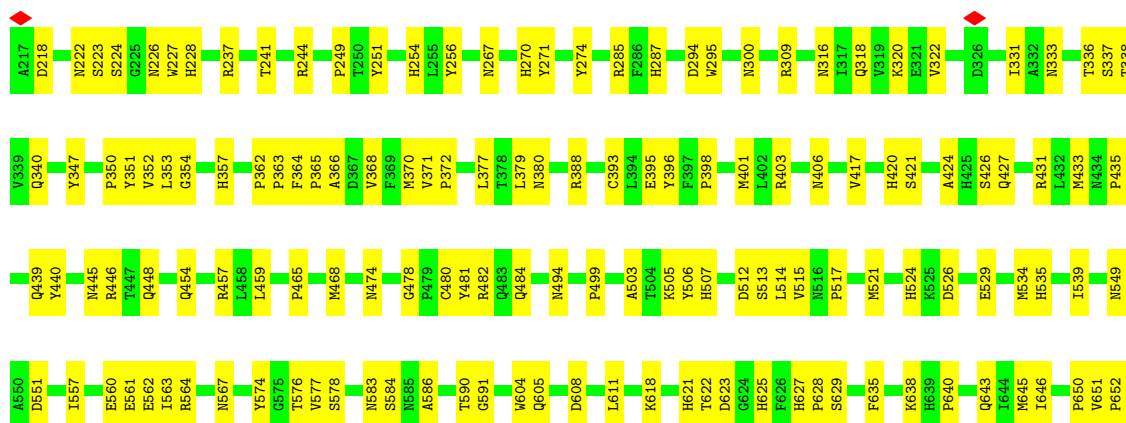
• Molecule 1: Capsid protein

Chain 4: 70% 30%



• Molecule 1: Capsid protein

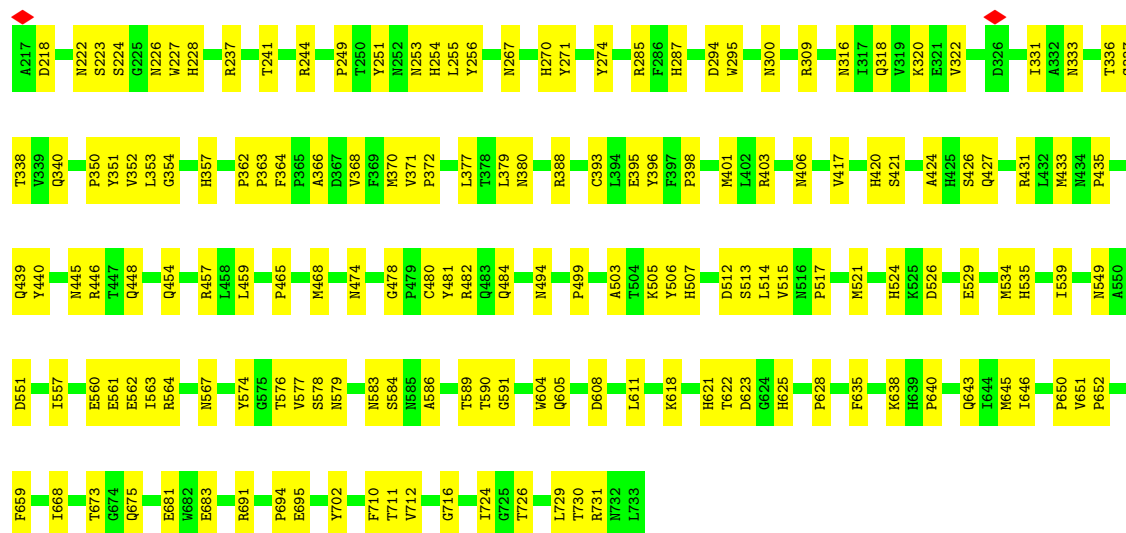
Chain 5: 68% 32%





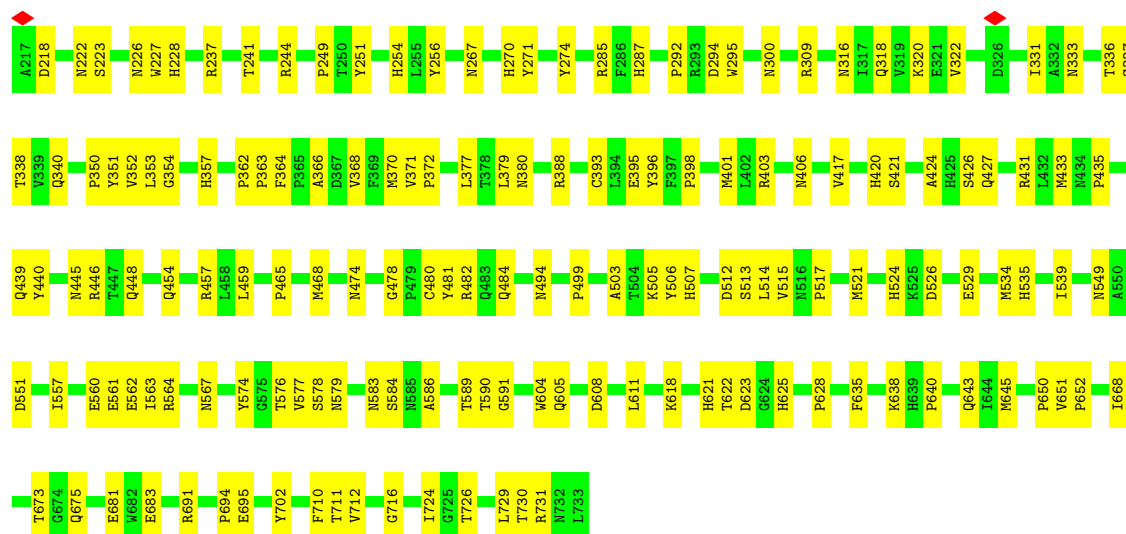
• Molecule 1: Capsid protein

Chain 6: 69% 31%



• Molecule 1: Capsid protein

Chain 7: 69% 31%



• Molecule 1: Capsid protein

Chain 8: 69% 31%



T336																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	56962	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	17.134	Depositor
Minimum map value	-9.775	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	452.34, 452.34, 452.34	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.077, 1.077, 1.077	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.45	0/4276	0.57	1/5833 (0.0%)
1	2	0.45	0/4276	0.57	1/5833 (0.0%)
1	3	0.45	0/4276	0.57	1/5833 (0.0%)
1	4	0.45	0/4276	0.57	0/5833
1	5	0.45	0/4276	0.57	1/5833 (0.0%)
1	6	0.45	0/4276	0.57	1/5833 (0.0%)
1	7	0.45	0/4276	0.57	1/5833 (0.0%)
1	8	0.45	0/4276	0.57	1/5833 (0.0%)
1	A	0.45	0/4276	0.57	1/5833 (0.0%)
1	B	0.45	0/4276	0.57	1/5833 (0.0%)
1	C	0.45	0/4276	0.57	1/5833 (0.0%)
1	D	0.45	0/4276	0.57	0/5833
1	E	0.45	0/4276	0.57	0/5833
1	F	0.45	0/4276	0.57	1/5833 (0.0%)
1	G	0.45	0/4276	0.57	1/5833 (0.0%)
1	H	0.45	0/4276	0.57	1/5833 (0.0%)
1	I	0.45	0/4276	0.57	0/5833
1	J	0.45	0/4276	0.57	1/5833 (0.0%)
1	K	0.45	0/4276	0.57	0/5833
1	L	0.45	0/4276	0.57	1/5833 (0.0%)
1	M	0.45	0/4276	0.57	1/5833 (0.0%)
1	N	0.45	0/4276	0.57	0/5833
1	O	0.45	0/4276	0.57	1/5833 (0.0%)
1	P	0.45	0/4276	0.57	1/5833 (0.0%)
1	Q	0.45	0/4276	0.57	1/5833 (0.0%)
1	R	0.45	0/4276	0.57	1/5833 (0.0%)
1	S	0.45	0/4276	0.57	1/5833 (0.0%)
1	T	0.45	0/4276	0.57	0/5833
1	U	0.45	0/4276	0.57	1/5833 (0.0%)
1	V	0.45	0/4276	0.57	1/5833 (0.0%)
1	W	0.45	0/4276	0.57	1/5833 (0.0%)
1	X	0.45	0/4276	0.57	1/5833 (0.0%)
1	Y	0.45	0/4276	0.57	0/5833
1	Z	0.45	0/4276	0.57	1/5833 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.45	0/4276	0.57	1/5833 (0.0%)
1	b	0.45	0/4276	0.57	1/5833 (0.0%)
1	c	0.45	0/4276	0.57	1/5833 (0.0%)
1	d	0.45	0/4276	0.57	1/5833 (0.0%)
1	e	0.45	0/4276	0.57	1/5833 (0.0%)
1	f	0.45	0/4276	0.57	0/5833
1	g	0.45	0/4276	0.57	1/5833 (0.0%)
1	h	0.45	0/4276	0.57	1/5833 (0.0%)
1	i	0.45	0/4276	0.57	0/5833
1	j	0.45	0/4276	0.57	1/5833 (0.0%)
1	k	0.45	0/4276	0.57	1/5833 (0.0%)
1	l	0.45	0/4276	0.57	1/5833 (0.0%)
1	m	0.45	0/4276	0.57	1/5833 (0.0%)
1	n	0.45	0/4276	0.57	1/5833 (0.0%)
1	o	0.45	0/4276	0.57	1/5833 (0.0%)
1	p	0.45	0/4276	0.57	1/5833 (0.0%)
1	q	0.45	0/4276	0.57	1/5833 (0.0%)
1	r	0.45	0/4276	0.57	0/5833
1	s	0.45	0/4276	0.57	1/5833 (0.0%)
1	t	0.45	0/4276	0.57	0/5833
1	u	0.45	0/4276	0.57	1/5833 (0.0%)
1	v	0.45	0/4276	0.57	1/5833 (0.0%)
1	w	0.45	0/4276	0.57	0/5833
1	x	0.45	0/4276	0.57	1/5833 (0.0%)
1	y	0.45	0/4276	0.57	1/5833 (0.0%)
1	z	0.45	0/4276	0.57	1/5833 (0.0%)
All	All	0.45	0/256560	0.57	47/349980 (0.0%)

There are no bond length outliers.

All (47) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	638	LYS	N-CA-C	-5.04	105.87	111.36
1	V	638	LYS	N-CA-C	-5.04	105.87	111.36
1	x	638	LYS	N-CA-C	-5.04	105.87	111.36
1	7	638	LYS	N-CA-C	-5.04	105.87	111.36
1	O	638	LYS	N-CA-C	-5.04	105.87	111.36
1	X	638	LYS	N-CA-C	-5.04	105.87	111.36
1	Z	638	LYS	N-CA-C	-5.04	105.87	111.36
1	l	638	LYS	N-CA-C	-5.04	105.87	111.36
1	o	638	LYS	N-CA-C	-5.04	105.87	111.36
1	8	638	LYS	N-CA-C	-5.04	105.87	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	638	LYS	N-CA-C	-5.04	105.87	111.36
1	R	638	LYS	N-CA-C	-5.04	105.87	111.36
1	q	638	LYS	N-CA-C	-5.04	105.87	111.36
1	1	638	LYS	N-CA-C	-5.04	105.87	111.36
1	U	638	LYS	N-CA-C	-5.03	105.88	111.36
1	W	638	LYS	N-CA-C	-5.03	105.88	111.36
1	s	638	LYS	N-CA-C	-5.03	105.88	111.36
1	z	638	LYS	N-CA-C	-5.03	105.88	111.36
1	G	638	LYS	N-CA-C	-5.02	105.88	111.36
1	k	638	LYS	N-CA-C	-5.02	105.89	111.36
1	J	638	LYS	N-CA-C	-5.02	105.89	111.36
1	S	638	LYS	N-CA-C	-5.02	105.89	111.36
1	m	638	LYS	N-CA-C	-5.02	105.89	111.36
1	2	638	LYS	N-CA-C	-5.02	105.89	111.36
1	L	638	LYS	N-CA-C	-5.02	105.89	111.36
1	u	638	LYS	N-CA-C	-5.01	105.90	111.36
1	M	638	LYS	N-CA-C	-5.01	105.90	111.36
1	h	638	LYS	N-CA-C	-5.01	105.90	111.36
1	C	638	LYS	N-CA-C	-5.00	105.91	111.36
1	g	638	LYS	N-CA-C	-5.00	105.91	111.36
1	p	638	LYS	N-CA-C	-5.00	105.91	111.36
1	A	638	LYS	N-CA-C	-5.00	105.91	111.36
1	F	638	LYS	N-CA-C	-5.00	105.91	111.36
1	H	638	LYS	N-CA-C	-5.00	105.91	111.36
1	P	638	LYS	N-CA-C	-5.00	105.91	111.36
1	a	638	LYS	N-CA-C	-5.00	105.91	111.36
1	b	638	LYS	N-CA-C	-5.00	105.91	111.36
1	c	638	LYS	N-CA-C	-5.00	105.91	111.36
1	d	638	LYS	N-CA-C	-5.00	105.91	111.36
1	e	638	LYS	N-CA-C	-5.00	105.91	111.36
1	j	638	LYS	N-CA-C	-5.00	105.91	111.36
1	n	638	LYS	N-CA-C	-5.00	105.91	111.36
1	v	638	LYS	N-CA-C	-5.00	105.91	111.36
1	y	638	LYS	N-CA-C	-5.00	105.91	111.36
1	3	638	LYS	N-CA-C	-5.00	105.91	111.36
1	5	638	LYS	N-CA-C	-5.00	105.91	111.36
1	6	638	LYS	N-CA-C	-5.00	105.91	111.36

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4147	0	3890	143	0
1	2	4147	0	3890	147	0
1	3	4147	0	3890	145	0
1	4	4147	0	3890	143	0
1	5	4147	0	3890	150	0
1	6	4147	0	3890	150	0
1	7	4147	0	3890	145	0
1	8	4147	0	3890	148	0
1	A	4147	0	3890	140	0
1	B	4147	0	3890	143	0
1	C	4147	0	3890	144	0
1	D	4147	0	3890	144	0
1	E	4147	0	3890	146	0
1	F	4147	0	3890	145	0
1	G	4147	0	3890	148	0
1	H	4147	0	3890	150	0
1	I	4147	0	3890	146	0
1	J	4147	0	3890	144	0
1	K	4147	0	3890	142	0
1	L	4147	0	3890	144	0
1	M	4147	0	3890	145	0
1	N	4147	0	3890	143	0
1	O	4147	0	3890	144	0
1	P	4147	0	3890	146	0
1	Q	4147	0	3890	147	0
1	R	4147	0	3890	146	0
1	S	4147	0	3890	144	0
1	T	4147	0	3890	149	0
1	U	4147	0	3890	140	0
1	V	4147	0	3890	148	0
1	W	4147	0	3890	151	0
1	X	4147	0	3890	148	0
1	Y	4147	0	3890	148	0
1	Z	4147	0	3890	146	0
1	a	4147	0	3890	144	0
1	b	4147	0	3890	144	0
1	c	4147	0	3890	145	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	4147	0	3890	149	0
1	e	4147	0	3890	148	0
1	f	4147	0	3890	147	0
1	g	4147	0	3890	149	0
1	h	4147	0	3890	150	0
1	i	4147	0	3890	145	0
1	j	4147	0	3890	145	0
1	k	4147	0	3890	146	0
1	l	4147	0	3890	146	0
1	m	4147	0	3890	149	0
1	n	4147	0	3890	149	0
1	o	4147	0	3890	144	0
1	p	4147	0	3890	147	0
1	q	4147	0	3890	148	0
1	r	4147	0	3890	145	0
1	s	4147	0	3890	143	0
1	t	4147	0	3890	148	0
1	u	4147	0	3890	145	0
1	v	4147	0	3890	143	0
1	w	4147	0	3890	146	0
1	x	4147	0	3890	146	0
1	y	4147	0	3890	146	0
1	z	4147	0	3890	144	0
All	All	248820	0	233400	6625	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

All (6625) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:563:ILE:HD12	1:F:567:ASN:HD22	1.36	0.91
1:a:563:ILE:HD12	1:a:567:ASN:HD22	1.36	0.91
1:y:563:ILE:HD12	1:y:567:ASN:HD22	1.36	0.91
1:M:563:ILE:HD12	1:M:567:ASN:HD22	1.36	0.91
1:2:563:ILE:HD12	1:2:567:ASN:HD22	1.36	0.91
1:3:563:ILE:HD12	1:3:567:ASN:HD22	1.36	0.91
1:J:563:ILE:HD12	1:J:567:ASN:HD22	1.36	0.91
1:C:563:ILE:HD12	1:C:567:ASN:HD22	1.36	0.91
1:Y:563:ILE:HD12	1:Y:567:ASN:HD22	1.36	0.91
1:h:563:ILE:HD12	1:h:567:ASN:HD22	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:563:ILE:HD12	1:r:567:ASN:HD22	1.36	0.91
1:g:563:ILE:HD12	1:g:567:ASN:HD22	1.36	0.91
1:S:563:ILE:HD12	1:S:567:ASN:HD22	1.36	0.90
1:7:563:ILE:HD12	1:7:567:ASN:HD22	1.36	0.90
1:A:563:ILE:HD12	1:A:567:ASN:HD22	1.36	0.90
1:v:563:ILE:HD12	1:v:567:ASN:HD22	1.36	0.90
1:p:563:ILE:HD12	1:p:567:ASN:HD22	1.36	0.90
1:z:563:ILE:HD12	1:z:567:ASN:HD22	1.36	0.90
1:8:563:ILE:HD12	1:8:567:ASN:HD22	1.36	0.90
1:K:563:ILE:HD12	1:K:567:ASN:HD22	1.36	0.90
1:L:563:ILE:HD12	1:L:567:ASN:HD22	1.36	0.90
1:c:563:ILE:HD12	1:c:567:ASN:HD22	1.36	0.90
1:m:563:ILE:HD12	1:m:567:ASN:HD22	1.36	0.90
1:V:563:ILE:HD12	1:V:567:ASN:HD22	1.36	0.89
1:Z:563:ILE:HD12	1:Z:567:ASN:HD22	1.36	0.89
1:1:563:ILE:HD12	1:1:567:ASN:HD22	1.36	0.89
1:B:563:ILE:HD12	1:B:567:ASN:HD22	1.36	0.89
1:D:563:ILE:HD12	1:D:567:ASN:HD22	1.36	0.89
1:T:563:ILE:HD12	1:T:567:ASN:HD22	1.36	0.89
1:b:563:ILE:HD12	1:b:567:ASN:HD22	1.36	0.89
1:f:563:ILE:HD12	1:f:567:ASN:HD22	1.36	0.89
1:N:563:ILE:HD12	1:N:567:ASN:HD22	1.36	0.89
1:e:563:ILE:HD12	1:e:567:ASN:HD22	1.36	0.89
1:l:563:ILE:HD12	1:l:567:ASN:HD22	1.36	0.89
1:4:563:ILE:HD12	1:4:567:ASN:HD22	1.36	0.89
1:O:563:ILE:HD12	1:O:567:ASN:HD22	1.36	0.89
1:j:563:ILE:HD12	1:j:567:ASN:HD22	1.36	0.89
1:k:563:ILE:HD12	1:k:567:ASN:HD22	1.36	0.89
1:i:563:ILE:HD12	1:i:567:ASN:HD22	1.36	0.89
1:P:563:ILE:HD12	1:P:567:ASN:HD22	1.36	0.89
1:R:563:ILE:HD12	1:R:567:ASN:HD22	1.36	0.89
1:H:563:ILE:HD12	1:H:567:ASN:HD22	1.36	0.89
1:X:563:ILE:HD12	1:X:567:ASN:HD22	1.36	0.89
1:q:563:ILE:HD12	1:q:567:ASN:HD22	1.36	0.89
1:E:563:ILE:HD12	1:E:567:ASN:HD22	1.36	0.88
1:d:563:ILE:HD12	1:d:567:ASN:HD22	1.36	0.88
1:n:563:ILE:HD12	1:n:567:ASN:HD22	1.36	0.88
1:5:563:ILE:HD12	1:5:567:ASN:HD22	1.36	0.88
1:o:563:ILE:HD12	1:o:567:ASN:HD22	1.36	0.88
1:x:563:ILE:HD12	1:x:567:ASN:HD22	1.36	0.88
1:Q:563:ILE:HD12	1:Q:567:ASN:HD22	1.36	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:563:ILE:HD12	1:W:567:ASN:HD22	1.36	0.88
1:w:563:ILE:HD12	1:w:567:ASN:HD22	1.36	0.88
1:U:563:ILE:HD12	1:U:567:ASN:HD22	1.36	0.88
1:6:563:ILE:HD12	1:6:567:ASN:HD22	1.36	0.88
1:s:563:ILE:HD12	1:s:567:ASN:HD22	1.36	0.88
1:u:563:ILE:HD12	1:u:567:ASN:HD22	1.36	0.87
1:I:563:ILE:HD12	1:I:567:ASN:HD22	1.36	0.87
1:G:563:ILE:HD12	1:G:567:ASN:HD22	1.36	0.87
1:t:563:ILE:HD12	1:t:567:ASN:HD22	1.36	0.87
1:E:336:THR:O	1:E:403:ARG:NH1	2.09	0.86
1:b:336:THR:O	1:b:403:ARG:NH1	2.09	0.86
1:w:336:THR:O	1:w:403:ARG:NH1	2.09	0.86
1:N:336:THR:O	1:N:403:ARG:NH1	2.09	0.86
1:f:336:THR:O	1:f:403:ARG:NH1	2.09	0.86
1:F:336:THR:O	1:F:403:ARG:NH1	2.09	0.86
1:W:336:THR:O	1:W:403:ARG:NH1	2.09	0.86
1:i:336:THR:O	1:i:403:ARG:NH1	2.09	0.86
1:y:336:THR:O	1:y:403:ARG:NH1	2.09	0.86
1:6:336:THR:O	1:6:403:ARG:NH1	2.09	0.86
1:I:336:THR:O	1:I:403:ARG:NH1	2.09	0.86
1:J:336:THR:O	1:J:403:ARG:NH1	2.09	0.86
1:M:336:THR:O	1:M:403:ARG:NH1	2.09	0.86
1:2:336:THR:O	1:2:403:ARG:NH1	2.09	0.86
1:V:336:THR:O	1:V:403:ARG:NH1	2.09	0.86
1:Z:336:THR:O	1:Z:403:ARG:NH1	2.09	0.86
1:h:336:THR:O	1:h:403:ARG:NH1	2.09	0.86
1:k:336:THR:O	1:k:403:ARG:NH1	2.09	0.86
1:p:336:THR:O	1:p:403:ARG:NH1	2.09	0.86
1:u:336:THR:O	1:u:403:ARG:NH1	2.09	0.86
1:O:336:THR:O	1:O:403:ARG:NH1	2.09	0.86
1:8:336:THR:O	1:8:403:ARG:NH1	2.09	0.86
1:D:336:THR:O	1:D:403:ARG:NH1	2.09	0.86
1:G:336:THR:O	1:G:403:ARG:NH1	2.09	0.86
1:Q:336:THR:O	1:Q:403:ARG:NH1	2.09	0.86
1:l:336:THR:O	1:l:403:ARG:NH1	2.09	0.86
1:t:336:THR:O	1:t:403:ARG:NH1	2.09	0.86
1:5:336:THR:O	1:5:403:ARG:NH1	2.09	0.86
1:H:336:THR:O	1:H:403:ARG:NH1	2.09	0.86
1:U:336:THR:O	1:U:403:ARG:NH1	2.09	0.86
1:s:336:THR:O	1:s:403:ARG:NH1	2.09	0.86
1:x:336:THR:O	1:x:403:ARG:NH1	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:336:THR:O	1:4:403:ARG:NH1	2.09	0.86
1:K:336:THR:O	1:K:403:ARG:NH1	2.09	0.85
1:z:336:THR:O	1:z:403:ARG:NH1	2.09	0.85
1:3:336:THR:O	1:3:403:ARG:NH1	2.09	0.85
1:7:336:THR:O	1:7:403:ARG:NH1	2.09	0.85
1:L:336:THR:O	1:L:403:ARG:NH1	2.09	0.85
1:Y:336:THR:O	1:Y:403:ARG:NH1	2.09	0.85
1:a:336:THR:O	1:a:403:ARG:NH1	2.09	0.85
1:g:336:THR:O	1:g:403:ARG:NH1	2.09	0.85
1:n:336:THR:O	1:n:403:ARG:NH1	2.09	0.85
1:1:336:THR:O	1:1:403:ARG:NH1	2.09	0.85
1:B:336:THR:O	1:B:403:ARG:NH1	2.09	0.85
1:C:336:THR:O	1:C:403:ARG:NH1	2.09	0.85
1:T:336:THR:O	1:T:403:ARG:NH1	2.09	0.85
1:X:336:THR:O	1:X:403:ARG:NH1	2.09	0.85
1:d:336:THR:O	1:d:403:ARG:NH1	2.09	0.85
1:m:336:THR:O	1:m:403:ARG:NH1	2.09	0.85
1:o:336:THR:O	1:o:403:ARG:NH1	2.09	0.85
1:A:336:THR:O	1:A:403:ARG:NH1	2.09	0.85
1:R:336:THR:O	1:R:403:ARG:NH1	2.09	0.85
1:v:336:THR:O	1:v:403:ARG:NH1	2.09	0.85
1:q:336:THR:O	1:q:403:ARG:NH1	2.09	0.85
1:r:336:THR:O	1:r:403:ARG:NH1	2.09	0.85
1:S:336:THR:O	1:S:403:ARG:NH1	2.09	0.85
1:j:336:THR:O	1:j:403:ARG:NH1	2.09	0.84
1:P:336:THR:O	1:P:403:ARG:NH1	2.09	0.84
1:e:336:THR:O	1:e:403:ARG:NH1	2.09	0.84
1:c:336:THR:O	1:c:403:ARG:NH1	2.09	0.84
1:A:731:ARG:NH1	1:G:621:HIS:NE2	2.27	0.82
1:V:731:ARG:NH1	1:e:621:HIS:NE2	2.28	0.82
1:t:621:HIS:NE2	1:v:731:ARG:NH1	2.28	0.82
1:A:621:HIS:NE2	1:I:731:ARG:NH1	2.27	0.82
1:E:621:HIS:NE2	1:F:731:ARG:NH1	2.28	0.82
1:R:621:HIS:NE2	1:U:731:ARG:NH1	2.28	0.82
1:T:731:ARG:NH1	1:d:621:HIS:NE2	2.28	0.82
1:c:621:HIS:NE2	1:p:731:ARG:NH1	2.28	0.82
1:c:731:ARG:NH1	1:o:621:HIS:NE2	2.28	0.82
1:g:621:HIS:NE2	1:h:731:ARG:NH1	2.26	0.82
1:m:731:ARG:NH1	1:n:621:HIS:NE2	2.28	0.82
1:q:621:HIS:NE2	1:s:731:ARG:NH1	2.28	0.82
1:w:621:HIS:NE2	1:y:731:ARG:NH1	2.28	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:731:ARG:NH1	1:x:621:HIS:NE2	2.27	0.82
1:C:731:ARG:NH1	1:b:621:HIS:NE2	2.28	0.82
1:X:621:HIS:NE2	1:e:731:ARG:NH1	2.28	0.82
1:E:731:ARG:NH1	1:Q:621:HIS:NE2	2.27	0.82
1:f:621:HIS:NE2	1:g:731:ARG:NH1	2.28	0.82
1:R:731:ARG:NH1	1:S:621:HIS:NE2	2.28	0.82
1:q:731:ARG:NH1	1:r:621:HIS:NE2	2.28	0.82
1:B:731:ARG:NH1	1:J:621:HIS:NE2	2.28	0.82
1:K:621:HIS:NE2	1:8:731:ARG:NH1	2.27	0.82
1:O:621:HIS:NE2	1:n:731:ARG:NH1	2.28	0.82
1:u:731:ARG:NH1	1:v:621:HIS:NE2	2.28	0.82
1:1:731:ARG:NH1	1:2:621:HIS:NE2	2.28	0.82
1:H:621:HIS:NE2	1:Y:731:ARG:NH1	2.28	0.82
1:d:731:ARG:NH1	1:l:621:HIS:NE2	2.28	0.82
1:C:621:HIS:NE2	1:M:731:ARG:NH1	2.27	0.82
1:D:621:HIS:NE2	1:P:731:ARG:NH1	2.28	0.82
1:D:731:ARG:NH1	1:N:621:HIS:NE2	2.28	0.82
1:J:731:ARG:NH1	1:L:621:HIS:NE2	2.27	0.82
1:Z:731:ARG:NH1	1:4:621:HIS:NE2	2.27	0.82
1:i:621:HIS:NE2	1:k:731:ARG:NH1	2.28	0.82
1:z:621:HIS:NE2	1:2:731:ARG:NH1	2.27	0.82
1:i:731:ARG:NH1	1:j:621:HIS:NE2	2.28	0.81
1:5:621:HIS:NE2	1:7:731:ARG:NH1	2.28	0.81
1:N:731:ARG:NH1	1:P:621:HIS:NE2	2.28	0.81
1:S:731:ARG:NH1	1:U:621:HIS:NE2	2.27	0.81
1:j:731:ARG:NH1	1:k:621:HIS:NE2	2.29	0.81
1:r:731:ARG:NH1	1:s:621:HIS:NE2	2.27	0.81
1:M:621:HIS:NE2	1:b:731:ARG:NH1	2.28	0.81
1:O:731:ARG:NH1	1:m:621:HIS:NE2	2.27	0.81
1:T:621:HIS:NE2	1:l:731:ARG:NH1	2.27	0.81
1:G:731:ARG:NH1	1:I:621:HIS:NE2	2.27	0.81
1:K:731:ARG:NH1	1:a:621:HIS:NE2	2.28	0.81
1:f:731:ARG:NH1	1:h:621:HIS:NE2	2.28	0.81
1:o:731:ARG:NH1	1:p:621:HIS:NE2	2.28	0.81
1:t:731:ARG:NH1	1:u:621:HIS:NE2	2.27	0.81
1:3:621:HIS:NE2	1:4:731:ARG:NH1	2.28	0.81
1:H:731:ARG:NH1	1:W:621:HIS:NE2	2.28	0.81
1:5:731:ARG:NH1	1:6:621:HIS:NE2	2.28	0.81
1:a:731:ARG:NH1	1:8:621:HIS:NE2	2.28	0.81
1:B:621:HIS:NE2	1:L:731:ARG:NH1	2.28	0.81
1:W:731:ARG:NH1	1:Y:621:HIS:NE2	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:621:HIS:NE2	1:3:731:ARG:NH1	2.28	0.81
1:c:608:ASP:OD1	1:c:726:THR:HG22	1.81	0.81
1:z:731:ARG:NH1	1:1:621:HIS:NE2	2.28	0.81
1:F:621:HIS:NE2	1:Q:731:ARG:NH1	2.28	0.80
1:Z:608:ASP:OD1	1:Z:726:THR:HG22	1.82	0.80
1:e:608:ASP:OD1	1:e:726:THR:HG22	1.82	0.80
1:l:608:ASP:OD1	1:l:726:THR:HG22	1.82	0.80
1:t:608:ASP:OD1	1:t:726:THR:HG22	1.82	0.80
1:z:608:ASP:OD1	1:z:726:THR:HG22	1.82	0.80
1:6:731:ARG:NH1	1:7:621:HIS:NE2	2.28	0.80
1:8:608:ASP:OD1	1:8:726:THR:HG22	1.82	0.80
1:G:608:ASP:OD1	1:G:726:THR:HG22	1.82	0.80
1:L:608:ASP:OD1	1:L:726:THR:HG22	1.82	0.80
1:O:608:ASP:OD1	1:O:726:THR:HG22	1.82	0.80
1:D:608:ASP:OD1	1:D:726:THR:HG22	1.82	0.80
1:k:608:ASP:OD1	1:k:726:THR:HG22	1.82	0.80
1:v:608:ASP:OD1	1:v:726:THR:HG22	1.82	0.80
1:x:731:ARG:NH1	1:y:621:HIS:NE2	2.28	0.80
1:A:608:ASP:OD1	1:A:726:THR:HG22	1.82	0.80
1:J:608:ASP:OD1	1:J:726:THR:HG22	1.82	0.80
1:U:608:ASP:OD1	1:U:726:THR:HG22	1.82	0.80
1:q:608:ASP:OD1	1:q:726:THR:HG22	1.81	0.80
1:3:608:ASP:OD1	1:3:726:THR:HG22	1.82	0.80
1:N:608:ASP:OD1	1:N:726:THR:HG22	1.82	0.80
1:R:608:ASP:OD1	1:R:726:THR:HG22	1.81	0.80
1:V:608:ASP:OD1	1:V:726:THR:HG22	1.82	0.80
1:V:621:HIS:NE2	1:X:731:ARG:NH1	2.29	0.80
1:a:608:ASP:OD1	1:a:726:THR:HG22	1.82	0.80
1:f:608:ASP:OD1	1:f:726:THR:HG22	1.82	0.80
1:x:608:ASP:OD1	1:x:726:THR:HG22	1.81	0.80
1:2:608:ASP:OD1	1:2:726:THR:HG22	1.82	0.80
1:4:608:ASP:OD1	1:4:726:THR:HG22	1.82	0.80
1:K:608:ASP:OD1	1:K:726:THR:HG22	1.82	0.80
1:b:608:ASP:OD1	1:b:726:THR:HG22	1.81	0.80
1:i:608:ASP:OD1	1:i:726:THR:HG22	1.82	0.80
1:j:608:ASP:OD1	1:j:726:THR:HG22	1.82	0.80
1:p:608:ASP:OD1	1:p:726:THR:HG22	1.82	0.80
1:s:608:ASP:OD1	1:s:726:THR:HG22	1.82	0.80
1:Q:608:ASP:OD1	1:Q:726:THR:HG22	1.82	0.80
1:P:608:ASP:OD1	1:P:726:THR:HG22	1.82	0.80
1:S:608:ASP:OD1	1:S:726:THR:HG22	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:608:ASP:OD1	1:r:726:THR:HG22	1.82	0.80
1:l:608:ASP:OD1	1:l:726:THR:HG22	1.82	0.80
1:h:608:ASP:OD1	1:h:726:THR:HG22	1.82	0.80
1:o:608:ASP:OD1	1:o:726:THR:HG22	1.82	0.80
1:u:608:ASP:OD1	1:u:726:THR:HG22	1.82	0.80
1:X:608:ASP:OD1	1:X:726:THR:HG22	1.82	0.79
1:M:608:ASP:OD1	1:M:726:THR:HG22	1.82	0.79
1:T:608:ASP:OD1	1:T:726:THR:HG22	1.82	0.79
1:d:608:ASP:OD1	1:d:726:THR:HG22	1.82	0.79
1:B:608:ASP:OD1	1:B:726:THR:HG22	1.81	0.79
1:H:608:ASP:OD1	1:H:726:THR:HG22	1.82	0.79
1:W:608:ASP:OD1	1:W:726:THR:HG22	1.82	0.79
1:n:608:ASP:OD1	1:n:726:THR:HG22	1.82	0.79
1:m:608:ASP:OD1	1:m:726:THR:HG22	1.82	0.79
1:y:608:ASP:OD1	1:y:726:THR:HG22	1.82	0.79
1:i:608:ASP:OD1	1:i:726:THR:HG22	1.82	0.79
1:5:608:ASP:OD1	1:5:726:THR:HG22	1.82	0.79
1:6:608:ASP:OD1	1:6:726:THR:HG22	1.82	0.79
1:F:608:ASP:OD1	1:F:726:THR:HG22	1.82	0.79
1:7:608:ASP:OD1	1:7:726:THR:HG22	1.82	0.79
1:Y:608:ASP:OD1	1:Y:726:THR:HG22	1.82	0.78
1:C:608:ASP:OD1	1:C:726:THR:HG22	1.82	0.78
1:g:608:ASP:OD1	1:g:726:THR:HG22	1.82	0.78
1:l:244:ARG:NH1	1:l:362:PRO:O	2.17	0.78
1:w:608:ASP:OD1	1:w:726:THR:HG22	1.82	0.78
1:E:608:ASP:OD1	1:E:726:THR:HG22	1.82	0.77
1:A:244:ARG:NH1	1:A:362:PRO:O	2.17	0.77
1:E:244:ARG:NH1	1:E:362:PRO:O	2.17	0.77
1:v:244:ARG:NH1	1:v:362:PRO:O	2.17	0.77
1:w:244:ARG:NH1	1:w:362:PRO:O	2.17	0.77
1:B:448:GLN:HE21	1:B:454:GLN:HB3	1.50	0.77
1:H:448:GLN:HE21	1:H:454:GLN:HB3	1.50	0.77
1:I:244:ARG:NH1	1:I:362:PRO:O	2.17	0.77
1:X:448:GLN:HE21	1:X:454:GLN:HB3	1.50	0.77
1:o:448:GLN:HE21	1:o:454:GLN:HB3	1.50	0.77
1:u:244:ARG:NH1	1:u:362:PRO:O	2.17	0.77
1:1:448:GLN:HE21	1:1:454:GLN:HB3	1.50	0.77
1:Q:244:ARG:NH1	1:Q:362:PRO:O	2.17	0.77
1:x:448:GLN:HE21	1:x:454:GLN:HB3	1.50	0.77
1:5:448:GLN:HE21	1:5:454:GLN:HB3	1.50	0.77
1:Q:448:GLN:HE21	1:Q:454:GLN:HB3	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:244:ARG:NH1	1:d:362:PRO:O	2.17	0.77
1:i:244:ARG:NH1	1:i:362:PRO:O	2.17	0.77
1:x:244:ARG:NH1	1:x:362:PRO:O	2.17	0.77
1:A:448:GLN:HE21	1:A:454:GLN:HB3	1.50	0.77
1:P:244:ARG:NH1	1:P:362:PRO:O	2.17	0.77
1:n:244:ARG:NH1	1:n:362:PRO:O	2.17	0.77
1:q:448:GLN:HE21	1:q:454:GLN:HB3	1.50	0.77
1:F:448:GLN:HE21	1:F:454:GLN:HB3	1.50	0.76
1:N:244:ARG:NH1	1:N:362:PRO:O	2.17	0.76
1:R:448:GLN:HE21	1:R:454:GLN:HB3	1.50	0.76
1:y:448:GLN:HE21	1:y:454:GLN:HB3	1.50	0.76
1:2:448:GLN:HE21	1:2:454:GLN:HB3	1.50	0.76
1:J:448:GLN:HE21	1:J:454:GLN:HB3	1.50	0.76
1:Z:244:ARG:NH1	1:Z:362:PRO:O	2.17	0.76
1:b:448:GLN:HE21	1:b:454:GLN:HB3	1.50	0.76
1:j:244:ARG:NH1	1:j:362:PRO:O	2.17	0.76
1:v:448:GLN:HE21	1:v:454:GLN:HB3	1.50	0.76
1:3:244:ARG:NH1	1:3:362:PRO:O	2.17	0.76
1:7:448:GLN:HE21	1:7:454:GLN:HB3	1.50	0.76
1:Y:448:GLN:HE21	1:Y:454:GLN:HB3	1.50	0.76
1:c:448:GLN:HE21	1:c:454:GLN:HB3	1.50	0.76
1:m:448:GLN:HE21	1:m:454:GLN:HB3	1.50	0.76
1:T:448:GLN:HE21	1:T:454:GLN:HB3	1.50	0.76
1:a:244:ARG:NH1	1:a:362:PRO:O	2.17	0.76
1:b:244:ARG:NH1	1:b:362:PRO:O	2.17	0.76
1:f:244:ARG:NH1	1:f:362:PRO:O	2.17	0.76
1:f:448:GLN:HE21	1:f:454:GLN:HB3	1.50	0.76
1:r:244:ARG:NH1	1:r:362:PRO:O	2.17	0.76
1:8:244:ARG:NH1	1:8:362:PRO:O	2.17	0.76
1:D:448:GLN:HE21	1:D:454:GLN:HB3	1.50	0.76
1:I:448:GLN:HE21	1:I:454:GLN:HB3	1.50	0.76
1:L:448:GLN:HE21	1:L:454:GLN:HB3	1.50	0.76
1:M:448:GLN:HE21	1:M:454:GLN:HB3	1.50	0.76
1:S:244:ARG:NH1	1:S:362:PRO:O	2.17	0.76
1:T:244:ARG:NH1	1:T:362:PRO:O	2.17	0.76
1:V:244:ARG:NH1	1:V:362:PRO:O	2.17	0.76
1:e:448:GLN:HE21	1:e:454:GLN:HB3	1.50	0.76
1:u:448:GLN:HE21	1:u:454:GLN:HB3	1.50	0.76
1:z:448:GLN:HE21	1:z:454:GLN:HB3	1.50	0.76
1:F:244:ARG:NH1	1:F:362:PRO:O	2.17	0.76
1:G:448:GLN:HE21	1:G:454:GLN:HB3	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:244:ARG:NH1	1:X:362:PRO:O	2.17	0.76
1:h:448:GLN:HE21	1:h:454:GLN:HB3	1.50	0.76
1:k:448:GLN:HE21	1:k:454:GLN:HB3	1.50	0.76
1:m:244:ARG:NH1	1:m:362:PRO:O	2.17	0.76
1:p:244:ARG:NH1	1:p:362:PRO:O	2.17	0.76
1:p:448:GLN:HE21	1:p:454:GLN:HB3	1.50	0.76
1:t:448:GLN:HE21	1:t:454:GLN:HB3	1.50	0.76
1:1:244:ARG:NH1	1:1:362:PRO:O	2.17	0.76
1:K:244:ARG:NH1	1:K:362:PRO:O	2.17	0.76
1:V:448:GLN:HE21	1:V:454:GLN:HB3	1.50	0.76
1:y:244:ARG:NH1	1:y:362:PRO:O	2.17	0.76
1:R:244:ARG:NH1	1:R:362:PRO:O	2.17	0.76
1:o:244:ARG:NH1	1:o:362:PRO:O	2.17	0.76
1:4:244:ARG:NH1	1:4:362:PRO:O	2.17	0.76
1:6:448:GLN:HE21	1:6:454:GLN:HB3	1.50	0.76
1:j:448:GLN:HE21	1:j:454:GLN:HB3	1.50	0.75
1:l:448:GLN:HE21	1:l:454:GLN:HB3	1.50	0.75
1:C:244:ARG:NH1	1:C:362:PRO:O	2.17	0.75
1:O:448:GLN:HE21	1:O:454:GLN:HB3	1.50	0.75
1:P:448:GLN:HE21	1:P:454:GLN:HB3	1.50	0.75
1:W:448:GLN:HE21	1:W:454:GLN:HB3	1.50	0.75
1:g:244:ARG:NH1	1:g:362:PRO:O	2.17	0.75
1:n:448:GLN:HE21	1:n:454:GLN:HB3	1.50	0.75
1:q:244:ARG:NH1	1:q:362:PRO:O	2.17	0.75
1:w:448:GLN:HE21	1:w:454:GLN:HB3	1.50	0.75
1:C:448:GLN:HE21	1:C:454:GLN:HB3	1.50	0.75
1:D:244:ARG:NH1	1:D:362:PRO:O	2.17	0.75
1:a:448:GLN:HE21	1:a:454:GLN:HB3	1.50	0.75
1:g:448:GLN:HE21	1:g:454:GLN:HB3	1.50	0.75
1:d:448:GLN:HE21	1:d:454:GLN:HB3	1.50	0.75
1:8:448:GLN:HE21	1:8:454:GLN:HB3	1.50	0.75
1:E:448:GLN:HE21	1:E:454:GLN:HB3	1.50	0.75
1:k:244:ARG:NH1	1:k:362:PRO:O	2.17	0.75
1:3:448:GLN:HE21	1:3:454:GLN:HB3	1.50	0.75
1:K:448:GLN:HE21	1:K:454:GLN:HB3	1.50	0.75
1:N:448:GLN:HE21	1:N:454:GLN:HB3	1.50	0.75
1:Z:448:GLN:HE21	1:Z:454:GLN:HB3	1.50	0.75
1:i:448:GLN:HE21	1:i:454:GLN:HB3	1.50	0.75
1:s:448:GLN:HE21	1:s:454:GLN:HB3	1.50	0.75
1:M:244:ARG:NH1	1:M:362:PRO:O	2.17	0.75
1:h:244:ARG:NH1	1:h:362:PRO:O	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:448:GLN:HE21	1:4:454:GLN:HB3	1.50	0.74
1:U:448:GLN:HE21	1:U:454:GLN:HB3	1.50	0.74
1:r:448:GLN:HE21	1:r:454:GLN:HB3	1.50	0.73
1:Y:244:ARG:NH1	1:Y:362:PRO:O	2.17	0.73
1:2:244:ARG:NH1	1:2:362:PRO:O	2.17	0.73
1:I:480:CYS:SG	1:I:574:TYR:HB2	2.29	0.73
1:R:480:CYS:SG	1:R:574:TYR:HB2	2.29	0.73
1:S:448:GLN:HE21	1:S:454:GLN:HB3	1.50	0.73
1:T:480:CYS:SG	1:T:574:TYR:HB2	2.29	0.73
1:U:480:CYS:SG	1:U:574:TYR:HB2	2.29	0.73
1:m:480:CYS:SG	1:m:574:TYR:HB2	2.29	0.73
1:q:480:CYS:SG	1:q:574:TYR:HB2	2.29	0.73
1:s:480:CYS:SG	1:s:574:TYR:HB2	2.29	0.73
1:7:244:ARG:NH1	1:7:362:PRO:O	2.17	0.73
1:B:244:ARG:NH1	1:B:362:PRO:O	2.17	0.73
1:B:480:CYS:SG	1:B:574:TYR:HB2	2.29	0.73
1:F:480:CYS:SG	1:F:574:TYR:HB2	2.29	0.73
1:H:480:CYS:SG	1:H:574:TYR:HB2	2.29	0.73
1:S:480:CYS:SG	1:S:574:TYR:HB2	2.29	0.73
1:u:480:CYS:SG	1:u:574:TYR:HB2	2.29	0.73
1:y:480:CYS:SG	1:y:574:TYR:HB2	2.29	0.73
1:1:480:CYS:SG	1:1:574:TYR:HB2	2.29	0.73
1:5:480:CYS:SG	1:5:574:TYR:HB2	2.29	0.73
1:K:480:CYS:SG	1:K:574:TYR:HB2	2.29	0.73
1:X:480:CYS:SG	1:X:574:TYR:HB2	2.29	0.73
1:e:480:CYS:SG	1:e:574:TYR:HB2	2.29	0.73
1:j:480:CYS:SG	1:j:574:TYR:HB2	2.29	0.73
1:r:480:CYS:SG	1:r:574:TYR:HB2	2.29	0.73
1:4:480:CYS:SG	1:4:574:TYR:HB2	2.29	0.73
1:J:244:ARG:NH1	1:J:362:PRO:O	2.17	0.73
1:P:480:CYS:SG	1:P:574:TYR:HB2	2.29	0.73
1:c:480:CYS:SG	1:c:574:TYR:HB2	2.29	0.73
1:o:480:CYS:SG	1:o:574:TYR:HB2	2.29	0.73
1:M:480:CYS:SG	1:M:574:TYR:HB2	2.29	0.73
1:W:244:ARG:NH1	1:W:362:PRO:O	2.17	0.73
1:d:480:CYS:SG	1:d:574:TYR:HB2	2.29	0.73
1:h:480:CYS:SG	1:h:574:TYR:HB2	2.29	0.73
1:n:480:CYS:SG	1:n:574:TYR:HB2	2.29	0.73
1:s:244:ARG:NH1	1:s:362:PRO:O	2.17	0.73
1:b:480:CYS:SG	1:b:574:TYR:HB2	2.29	0.73
1:f:480:CYS:SG	1:f:574:TYR:HB2	2.29	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:480:CYS:SG	1:i:574:TYR:HB2	2.29	0.73
1:3:480:CYS:SG	1:3:574:TYR:HB2	2.29	0.73
1:7:480:CYS:SG	1:7:574:TYR:HB2	2.29	0.73
1:U:244:ARG:NH1	1:U:362:PRO:O	2.17	0.73
1:Y:480:CYS:SG	1:Y:574:TYR:HB2	2.29	0.73
1:6:244:ARG:NH1	1:6:362:PRO:O	2.17	0.73
1:N:480:CYS:SG	1:N:574:TYR:HB2	2.29	0.73
1:C:480:CYS:SG	1:C:574:TYR:HB2	2.29	0.72
1:a:480:CYS:SG	1:a:574:TYR:HB2	2.29	0.72
1:G:480:CYS:SG	1:G:574:TYR:HB2	2.29	0.72
1:O:480:CYS:SG	1:O:574:TYR:HB2	2.29	0.72
1:g:480:CYS:SG	1:g:574:TYR:HB2	2.29	0.72
1:t:480:CYS:SG	1:t:574:TYR:HB2	2.29	0.72
1:J:480:CYS:SG	1:J:574:TYR:HB2	2.29	0.72
1:k:480:CYS:SG	1:k:574:TYR:HB2	2.29	0.72
1:l:480:CYS:SG	1:l:574:TYR:HB2	2.29	0.72
1:2:480:CYS:SG	1:2:574:TYR:HB2	2.29	0.72
1:Q:480:CYS:SG	1:Q:574:TYR:HB2	2.29	0.72
1:p:480:CYS:SG	1:p:574:TYR:HB2	2.29	0.72
1:x:480:CYS:SG	1:x:574:TYR:HB2	2.29	0.72
1:D:480:CYS:SG	1:D:574:TYR:HB2	2.29	0.72
1:E:480:CYS:SG	1:E:574:TYR:HB2	2.29	0.72
1:H:244:ARG:NH1	1:H:362:PRO:O	2.17	0.72
1:W:480:CYS:SG	1:W:574:TYR:HB2	2.29	0.72
1:6:480:CYS:SG	1:6:574:TYR:HB2	2.29	0.72
1:V:480:CYS:SG	1:V:574:TYR:HB2	2.29	0.72
1:w:480:CYS:SG	1:w:574:TYR:HB2	2.29	0.72
1:z:480:CYS:SG	1:z:574:TYR:HB2	2.29	0.72
1:z:244:ARG:NH1	1:z:362:PRO:O	2.17	0.72
1:A:480:CYS:SG	1:A:574:TYR:HB2	2.29	0.72
1:L:244:ARG:NH1	1:L:362:PRO:O	2.17	0.72
1:L:480:CYS:SG	1:L:574:TYR:HB2	2.29	0.72
1:U:228[B]:HIS:HD2	1:U:241:THR:HG21	1.55	0.72
1:s:228[B]:HIS:HD2	1:s:241:THR:HG21	1.55	0.72
1:5:244:ARG:NH1	1:5:362:PRO:O	2.17	0.72
1:E:228[B]:HIS:HD2	1:E:241:THR:HG21	1.55	0.72
1:G:244:ARG:NH1	1:G:362:PRO:O	2.17	0.72
1:O:244:ARG:NH1	1:O:362:PRO:O	2.17	0.72
1:X:228[B]:HIS:HD2	1:X:241:THR:HG21	1.55	0.72
1:t:244:ARG:NH1	1:t:362:PRO:O	2.17	0.72
1:v:480:CYS:SG	1:v:574:TYR:HB2	2.29	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:228[B]:HIS:HD2	1:T:241:THR:HG21	1.55	0.71
1:Z:480:CYS:SG	1:Z:574:TYR:HB2	2.29	0.71
1:m:228[B]:HIS:HD2	1:m:241:THR:HG21	1.55	0.71
1:o:228[B]:HIS:HD2	1:o:241:THR:HG21	1.55	0.71
1:w:228[B]:HIS:HD2	1:w:241:THR:HG21	1.55	0.71
1:2:228[B]:HIS:HD2	1:2:241:THR:HG21	1.55	0.71
1:J:228[B]:HIS:HD2	1:J:241:THR:HG21	1.55	0.71
1:L:228[B]:HIS:HD2	1:L:241:THR:HG21	1.55	0.71
1:W:228[B]:HIS:HD2	1:W:241:THR:HG21	1.55	0.71
1:b:228[B]:HIS:HD2	1:b:241:THR:HG21	1.55	0.71
1:f:228[B]:HIS:HD2	1:f:241:THR:HG21	1.55	0.71
1:n:228[B]:HIS:HD2	1:n:241:THR:HG21	1.55	0.71
1:3:228[B]:HIS:HD2	1:3:241:THR:HG21	1.55	0.71
1:6:228[B]:HIS:HD2	1:6:241:THR:HG21	1.55	0.71
1:D:228[B]:HIS:HD2	1:D:241:THR:HG21	1.55	0.71
1:a:228[B]:HIS:HD2	1:a:241:THR:HG21	1.55	0.71
1:d:228[B]:HIS:HD2	1:d:241:THR:HG21	1.55	0.71
1:8:480:CYS:SG	1:8:574:TYR:HB2	2.29	0.71
1:K:228[B]:HIS:HD2	1:K:241:THR:HG21	1.55	0.71
1:c:244:ARG:NH1	1:c:362:PRO:O	2.17	0.71
1:z:228[B]:HIS:HD2	1:z:241:THR:HG21	1.55	0.71
1:k:228[B]:HIS:HD2	1:k:241:THR:HG21	1.55	0.71
1:4:228[B]:HIS:HD2	1:4:241:THR:HG21	1.55	0.71
1:B:228[B]:HIS:HD2	1:B:241:THR:HG21	1.55	0.71
1:e:244:ARG:NH1	1:e:362:PRO:O	2.17	0.71
1:I:228[B]:HIS:HD2	1:I:241:THR:HG21	1.55	0.71
1:u:228[B]:HIS:HD2	1:u:241:THR:HG21	1.55	0.71
1:1:228[B]:HIS:HD2	1:1:241:THR:HG21	1.55	0.71
1:7:228[B]:HIS:HD2	1:7:241:THR:HG21	1.55	0.71
1:C:228[B]:HIS:HD2	1:C:241:THR:HG21	1.55	0.71
1:g:228[B]:HIS:HD2	1:g:241:THR:HG21	1.55	0.71
1:H:228[B]:HIS:HD2	1:H:241:THR:HG21	1.55	0.71
1:Y:228[B]:HIS:HD2	1:Y:241:THR:HG21	1.55	0.71
1:p:228[B]:HIS:HD2	1:p:241:THR:HG21	1.55	0.71
1:x:228[B]:HIS:HD2	1:x:241:THR:HG21	1.55	0.71
1:H:249:PRO:HG3	1:H:370:MET:HE3	1.73	0.70
1:Q:249:PRO:HG3	1:Q:370:MET:HE3	1.73	0.70
1:t:249:PRO:HG3	1:t:370:MET:HE3	1.73	0.70
1:A:249:PRO:HG3	1:A:370:MET:HE3	1.73	0.70
1:G:249:PRO:HG3	1:G:370:MET:HE3	1.73	0.70
1:Q:228[B]:HIS:HD2	1:Q:241:THR:HG21	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:249:PRO:HG3	1:V:370:MET:HE3	1.73	0.70
1:p:249:PRO:HG3	1:p:370:MET:HE3	1.73	0.70
1:x:249:PRO:HG3	1:x:370:MET:HE3	1.73	0.70
1:z:249:PRO:HG3	1:z:370:MET:HE3	1.73	0.70
1:3:249:PRO:HG3	1:3:370:MET:HE3	1.73	0.70
1:5:228[B]:HIS:HD2	1:5:241:THR:HG21	1.55	0.70
1:6:249:PRO:HG3	1:6:370:MET:HE3	1.73	0.70
1:G:228[B]:HIS:HD2	1:G:241:THR:HG21	1.55	0.70
1:L:249:PRO:HG3	1:L:370:MET:HE3	1.73	0.70
1:a:249:PRO:HG3	1:a:370:MET:HE3	1.73	0.70
1:h:249:PRO:HG3	1:h:370:MET:HE3	1.73	0.70
1:t:228[B]:HIS:HD2	1:t:241:THR:HG21	1.55	0.70
1:v:249:PRO:HG3	1:v:370:MET:HE3	1.73	0.70
1:5:249:PRO:HG3	1:5:370:MET:HE3	1.74	0.70
1:E:249:PRO:HG3	1:E:370:MET:HE3	1.73	0.70
1:F:228[B]:HIS:HD2	1:F:241:THR:HG21	1.55	0.70
1:M:249:PRO:HG3	1:M:370:MET:HE3	1.74	0.70
1:V:228[B]:HIS:HD2	1:V:241:THR:HG21	1.55	0.70
1:W:249:PRO:HG3	1:W:370:MET:HE3	1.74	0.70
1:d:249:PRO:HG3	1:d:370:MET:HE3	1.73	0.70
1:n:249:PRO:HG3	1:n:370:MET:HE3	1.73	0.70
1:q:228[B]:HIS:HD2	1:q:241:THR:HG21	1.55	0.70
1:w:249:PRO:HG3	1:w:370:MET:HE3	1.73	0.70
1:1:249:PRO:HG3	1:1:370:MET:HE3	1.73	0.70
1:B:249:PRO:HG3	1:B:370:MET:HE3	1.73	0.70
1:M:228[B]:HIS:HD2	1:M:241:THR:HG21	1.55	0.70
1:R:228[B]:HIS:HD2	1:R:241:THR:HG21	1.55	0.70
1:o:446:ARG:HB2	1:o:459:LEU:HB2	1.74	0.70
1:A:228[B]:HIS:HD2	1:A:241:THR:HG21	1.55	0.70
1:N:228[B]:HIS:HD2	1:N:241:THR:HG21	1.55	0.70
1:X:446:ARG:HB2	1:X:459:LEU:HB2	1.74	0.70
1:s:446:ARG:HB2	1:s:459:LEU:HB2	1.74	0.70
1:y:228[B]:HIS:HD2	1:y:241:THR:HG21	1.55	0.70
1:U:446:ARG:HB2	1:U:459:LEU:HB2	1.74	0.70
1:w:446:ARG:HB2	1:w:459:LEU:HB2	1.74	0.70
1:B:446:ARG:HB2	1:B:459:LEU:HB2	1.74	0.70
1:E:446:ARG:HB2	1:E:459:LEU:HB2	1.74	0.70
1:h:228[B]:HIS:HD2	1:h:241:THR:HG21	1.55	0.70
1:n:446:ARG:HB2	1:n:459:LEU:HB2	1.74	0.70
1:v:228[B]:HIS:HD2	1:v:241:THR:HG21	1.55	0.70
1:2:249:PRO:HG3	1:2:370:MET:HE3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:249:PRO:HG3	1:J:370:MET:HE3	1.74	0.70
1:N:446:ARG:HB2	1:N:459:LEU:HB2	1.74	0.70
1:T:249:PRO:HG3	1:T:370:MET:HE3	1.73	0.70
1:a:446:ARG:HB2	1:a:459:LEU:HB2	1.74	0.70
1:d:446:ARG:HB2	1:d:459:LEU:HB2	1.74	0.70
1:e:228[B]:HIS:HD2	1:e:241:THR:HG21	1.55	0.70
1:i:228[B]:HIS:HD2	1:i:241:THR:HG21	1.55	0.70
1:l:228[B]:HIS:HD2	1:l:241:THR:HG21	1.55	0.70
1:j:228[B]:HIS:HD2	1:j:241:THR:HG21	1.55	0.70
1:1:446:ARG:HB2	1:1:459:LEU:HB2	1.74	0.70
1:3:446:ARG:HB2	1:3:459:LEU:HB2	1.74	0.70
1:8:228[B]:HIS:HD2	1:8:241:THR:HG21	1.55	0.70
1:C:249:PRO:HG3	1:C:370:MET:HE3	1.73	0.69
1:D:249:PRO:HG3	1:D:370:MET:HE3	1.73	0.69
1:F:446:ARG:HB2	1:F:459:LEU:HB2	1.74	0.69
1:K:446:ARG:HB2	1:K:459:LEU:HB2	1.74	0.69
1:O:228[B]:HIS:HD2	1:O:241:THR:HG21	1.55	0.69
1:R:446:ARG:HB2	1:R:459:LEU:HB2	1.74	0.69
1:c:228[B]:HIS:HD2	1:c:241:THR:HG21	1.55	0.69
1:i:446:ARG:HB2	1:i:459:LEU:HB2	1.74	0.69
1:m:249:PRO:HG3	1:m:370:MET:HE3	1.73	0.69
1:K:249:PRO:HG3	1:K:370:MET:HE3	1.73	0.69
1:P:228[B]:HIS:HD2	1:P:241:THR:HG21	1.55	0.69
1:k:249:PRO:HG3	1:k:370:MET:HE3	1.74	0.69
1:q:446:ARG:HB2	1:q:459:LEU:HB2	1.74	0.69
1:r:228[B]:HIS:HD2	1:r:241:THR:HG21	1.55	0.69
1:r:249:PRO:HG3	1:r:370:MET:HE3	1.74	0.69
1:4:249:PRO:HG3	1:4:370:MET:HE3	1.73	0.69
1:4:446:ARG:HB2	1:4:459:LEU:HB2	1.74	0.69
1:G:446:ARG:HB2	1:G:459:LEU:HB2	1.74	0.69
1:S:249:PRO:HG3	1:S:370:MET:HE3	1.74	0.69
1:Z:228[B]:HIS:HD2	1:Z:241:THR:HG21	1.55	0.69
1:g:249:PRO:HG3	1:g:370:MET:HE3	1.73	0.69
1:y:249:PRO:HG3	1:y:370:MET:HE3	1.73	0.69
1:y:446:ARG:HB2	1:y:459:LEU:HB2	1.74	0.69
1:8:446:ARG:HB2	1:8:459:LEU:HB2	1.74	0.69
1:F:249:PRO:HG3	1:F:370:MET:HE3	1.73	0.69
1:S:228[B]:HIS:HD2	1:S:241:THR:HG21	1.55	0.69
1:Z:446:ARG:HB2	1:Z:459:LEU:HB2	1.74	0.69
1:c:446:ARG:HB2	1:c:459:LEU:HB2	1.74	0.69
1:t:446:ARG:HB2	1:t:459:LEU:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:446:ARG:HB2	1:L:459:LEU:HB2	1.74	0.69
1:O:446:ARG:HB2	1:O:459:LEU:HB2	1.74	0.69
1:c:249:PRO:HG3	1:c:370:MET:HE3	1.73	0.69
1:e:446:ARG:HB2	1:e:459:LEU:HB2	1.74	0.69
1:f:249:PRO:HG3	1:f:370:MET:HE3	1.73	0.69
1:S:446:ARG:HB2	1:S:459:LEU:HB2	1.74	0.69
1:X:249:PRO:HG3	1:X:370:MET:HE3	1.73	0.69
1:h:446:ARG:HB2	1:h:459:LEU:HB2	1.74	0.69
1:l:446:ARG:HB2	1:l:459:LEU:HB2	1.74	0.69
1:z:446:ARG:HB2	1:z:459:LEU:HB2	1.74	0.69
1:I:249:PRO:HG3	1:I:370:MET:HE3	1.73	0.69
1:M:446:ARG:HB2	1:M:459:LEU:HB2	1.74	0.69
1:T:446:ARG:HB2	1:T:459:LEU:HB2	1.74	0.69
1:Y:446:ARG:HB2	1:Y:459:LEU:HB2	1.74	0.69
1:b:249:PRO:HG3	1:b:370:MET:HE3	1.73	0.69
1:m:446:ARG:HB2	1:m:459:LEU:HB2	1.74	0.69
1:r:446:ARG:HB2	1:r:459:LEU:HB2	1.74	0.69
1:J:446:ARG:HB2	1:J:459:LEU:HB2	1.74	0.69
1:b:446:ARG:HB2	1:b:459:LEU:HB2	1.74	0.69
1:e:249:PRO:HG3	1:e:370:MET:HE3	1.73	0.69
1:f:446:ARG:HB2	1:f:459:LEU:HB2	1.74	0.69
1:o:249:PRO:HG3	1:o:370:MET:HE3	1.73	0.69
1:u:249:PRO:HG3	1:u:370:MET:HE3	1.73	0.69
1:2:446:ARG:HB2	1:2:459:LEU:HB2	1.74	0.69
1:6:446:ARG:HB2	1:6:459:LEU:HB2	1.74	0.69
1:7:446:ARG:HB2	1:7:459:LEU:HB2	1.74	0.69
1:V:446:ARG:HB2	1:V:459:LEU:HB2	1.74	0.69
1:W:446:ARG:HB2	1:W:459:LEU:HB2	1.74	0.69
1:k:446:ARG:HB2	1:k:459:LEU:HB2	1.74	0.69
1:I:446:ARG:HB2	1:I:459:LEU:HB2	1.74	0.68
1:Z:249:PRO:HG3	1:Z:370:MET:HE3	1.74	0.68
1:q:249:PRO:HG3	1:q:370:MET:HE3	1.73	0.68
1:D:446:ARG:HB2	1:D:459:LEU:HB2	1.74	0.68
1:Q:446:ARG:HB2	1:Q:459:LEU:HB2	1.74	0.68
1:U:249:PRO:HG3	1:U:370:MET:HE3	1.73	0.68
1:s:249:PRO:HG3	1:s:370:MET:HE3	1.73	0.68
1:u:446:ARG:HB2	1:u:459:LEU:HB2	1.74	0.68
1:x:446:ARG:HB2	1:x:459:LEU:HB2	1.74	0.68
1:7:249:PRO:HG3	1:7:370:MET:HE3	1.74	0.68
1:P:249:PRO:HG3	1:P:370:MET:HE3	1.74	0.68
1:R:249:PRO:HG3	1:R:370:MET:HE3	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:446:ARG:HB2	1:p:459:LEU:HB2	1.74	0.68
1:8:249:PRO:HG3	1:8:370:MET:HE3	1.74	0.68
1:Y:249:PRO:HG3	1:Y:370:MET:HE3	1.74	0.68
1:j:446:ARG:HB2	1:j:459:LEU:HB2	1.74	0.68
1:H:446:ARG:HB2	1:H:459:LEU:HB2	1.74	0.68
1:i:249:PRO:HG3	1:i:370:MET:HE3	1.74	0.68
1:j:249:PRO:HG3	1:j:370:MET:HE3	1.74	0.68
1:5:446:ARG:HB2	1:5:459:LEU:HB2	1.74	0.68
1:O:249:PRO:HG3	1:O:370:MET:HE3	1.74	0.68
1:P:446:ARG:HB2	1:P:459:LEU:HB2	1.74	0.68
1:l:249:PRO:HG3	1:l:370:MET:HE3	1.74	0.68
1:C:446:ARG:HB2	1:C:459:LEU:HB2	1.74	0.68
1:N:249:PRO:HG3	1:N:370:MET:HE3	1.73	0.68
1:g:446:ARG:HB2	1:g:459:LEU:HB2	1.74	0.68
1:A:446:ARG:HB2	1:A:459:LEU:HB2	1.74	0.67
1:v:446:ARG:HB2	1:v:459:LEU:HB2	1.74	0.67
1:j:226:ASN:HD22	1:x:401:MET:H	1.45	0.65
1:g:623:ASP:OD1	1:h:421:SER:OG	2.15	0.65
1:P:226:ASN:HD22	1:Q:401:MET:H	1.45	0.65
1:T:401:MET:H	1:i:226:ASN:HD22	1.45	0.65
1:N:226:ASN:HD22	1:m:401:MET:H	1.45	0.65
1:T:226:ASN:HD22	1:U:401:MET:H	1.45	0.65
1:m:226:ASN:HD22	1:s:401:MET:H	1.45	0.65
1:X:226:ASN:HD22	1:Y:401:MET:H	1.43	0.64
1:c:421:SER:OG	1:o:623:ASP:OD1	2.16	0.64
1:l:401:MET:H	1:n:226:ASN:HD22	1.45	0.64
1:C:421:SER:OG	1:b:623:ASP:OD1	2.16	0.64
1:C:623:ASP:OD1	1:M:421:SER:OG	2.15	0.64
1:O:401:MET:H	1:d:226:ASN:HD22	1.45	0.64
1:O:421:SER:OG	1:m:623:ASP:OD1	2.15	0.64
1:X:623:ASP:OD1	1:e:421:SER:OG	2.16	0.64
1:r:401:MET:H	1:x:226:ASN:HD22	1.45	0.64
1:A:623:ASP:OD1	1:I:421:SER:OG	2.15	0.64
1:F:623:ASP:OD1	1:Q:421:SER:OG	2.16	0.64
1:Q:226:ASN:HD22	1:S:401:MET:H	1.45	0.64
1:T:623:ASP:OD1	1:l:421:SER:OG	2.15	0.64
1:f:623:ASP:OD1	1:g:421:SER:OG	2.16	0.64
1:t:226:ASN:HD22	1:6:401:MET:H	1.46	0.64
1:x:421:SER:OG	1:y:623:ASP:OD1	2.16	0.64
1:z:401:MET:H	1:4:226:ASN:HD22	1.45	0.64
1:H:226:ASN:HD22	1:I:401:MET:H	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:226:ASN:HD22	1:L:401:MET:H	1.45	0.64
1:K:421:SER:OG	1:a:623:ASP:OD1	2.15	0.64
1:M:623:ASP:OD1	1:b:421:SER:OG	2.15	0.64
1:Z:401:MET:H	1:a:226:ASN:HD22	1.45	0.64
1:3:226:ASN:HD22	1:8:401:MET:H	1.45	0.64
1:3:623:ASP:OD1	1:4:421:SER:OG	2.15	0.64
1:A:226:ASN:HD22	1:E:401:MET:H	1.45	0.64
1:G:226:ASN:HD22	1:W:401:MET:H	1.46	0.64
1:J:226:ASN:HD22	1:a:401:MET:H	1.46	0.64
1:a:421:SER:OG	1:8:623:ASP:OD1	2.15	0.64
1:b:226:ASN:HD22	1:o:401:MET:H	1.45	0.64
1:c:401:MET:H	1:s:226:ASN:HD22	1.46	0.64
1:u:401:MET:H	1:5:226:ASN:HD22	1.45	0.64
1:E:421:SER:OG	1:Q:623:ASP:OD1	2.15	0.64
1:U:226:ASN:HD22	1:e:401:MET:H	1.46	0.64
1:d:421:SER:OG	1:l:623:ASP:OD1	2.15	0.64
1:v:226:ASN:HD22	1:w:401:MET:H	1.45	0.64
1:2:226:ASN:HD22	1:3:401:MET:H	1.46	0.64
1:O:623:ASP:OD1	1:n:421:SER:OG	2.15	0.64
1:Y:226:ASN:HD22	1:4:401:MET:H	1.45	0.64
1:Z:623:ASP:OD1	1:3:421:SER:OG	2.15	0.64
1:w:421:SER:OG	1:x:623:ASP:OD1	2.15	0.64
1:B:421:SER:OG	1:J:623:ASP:OD1	2.15	0.64
1:K:401:MET:H	1:7:226:ASN:HD22	1.45	0.64
1:R:421:SER:OG	1:S:623:ASP:OD1	2.15	0.64
1:q:421:SER:OG	1:r:623:ASP:OD1	2.15	0.64
1:u:421:SER:OG	1:v:623:ASP:OD1	2.16	0.64
1:P:294:ASP:OD2	1:Q:396:TYR:OH	2.16	0.63
1:S:226:ASN:HD22	1:d:401:MET:H	1.46	0.63
1:X:294:ASP:OD2	1:Y:396:TYR:OH	2.16	0.63
1:Z:421:SER:OG	1:4:623:ASP:OD1	2.15	0.63
1:t:401:MET:H	1:y:226:ASN:HD22	1.45	0.63
1:K:623:ASP:OD1	1:8:421:SER:OG	2.15	0.63
1:f:421:SER:OG	1:h:623:ASP:OD1	2.16	0.63
1:n:401:MET:H	1:r:226:ASN:HD22	1.46	0.63
1:l:421:SER:OG	1:2:623:ASP:OD1	2.15	0.63
1:j:294:ASP:OD2	1:x:396:TYR:OH	2.17	0.63
1:q:623:ASP:OD1	1:s:421:SER:OG	2.16	0.63
1:F:226:ASN:HD22	1:G:401:MET:H	1.45	0.63
1:G:294:ASP:OD2	1:W:396:TYR:OH	2.17	0.63
1:J:421:SER:OG	1:L:623:ASP:OD1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:421:SER:OG	1:e:623:ASP:OD1	2.16	0.63
1:z:623:ASP:OD1	1:2:421:SER:OG	2.15	0.63
1:A:421:SER:OG	1:G:623:ASP:OD1	2.15	0.63
1:G:421:SER:OG	1:I:623:ASP:OD1	2.15	0.63
1:g:401:MET:H	1:k:226:ASN:HD22	1.45	0.63
1:q:226:ASN:HD22	1:y:401:MET:H	1.46	0.63
1:u:226:ASN:HD22	1:2:401:MET:H	1.45	0.63
1:R:623:ASP:OD1	1:U:421:SER:OG	2.16	0.63
1:W:421:SER:OG	1:Y:623:ASP:OD1	2.16	0.63
1:p:396:TYR:OH	1:6:294:ASP:OD2	2.17	0.63
1:t:294:ASP:OD2	1:6:396:TYR:OH	2.17	0.63
1:t:421:SER:OG	1:u:623:ASP:OD1	2.15	0.63
1:F:401:MET:H	1:R:226:ASN:HD22	1.46	0.63
1:Q:294:ASP:OD2	1:S:396:TYR:OH	2.16	0.63
1:V:396:TYR:OH	1:W:294:ASP:OD2	2.17	0.63
1:c:623:ASP:OD1	1:p:421:SER:OG	2.16	0.63
1:e:226:ASN:HD22	1:h:401:MET:H	1.45	0.63
1:g:294:ASP:OD2	1:1:396:TYR:OH	2.16	0.63
1:m:421:SER:OG	1:n:623:ASP:OD1	2.15	0.63
1:p:226:ASN:HD22	1:q:401:MET:H	1.45	0.63
1:B:396:TYR:OH	1:C:294:ASP:OD2	2.16	0.63
1:H:294:ASP:OD2	1:I:396:TYR:OH	2.16	0.63
1:I:226:ASN:HD22	1:J:401:MET:H	1.45	0.63
1:K:294:ASP:OD2	1:L:396:TYR:OH	2.16	0.63
1:K:396:TYR:OH	1:7:294:ASP:OD2	2.17	0.63
1:R:401:MET:H	1:V:226:ASN:HD22	1.45	0.63
1:V:623:ASP:OD1	1:X:421:SER:OG	2.16	0.63
1:n:396:TYR:OH	1:r:294:ASP:OD2	2.17	0.63
1:r:396:TYR:OH	1:x:294:ASP:OD2	2.16	0.63
1:6:421:SER:OG	1:7:623:ASP:OD1	2.16	0.63
1:C:401:MET:H	1:D:226:ASN:HD22	1.45	0.63
1:I:294:ASP:OD2	1:J:396:TYR:OH	2.16	0.63
1:M:401:MET:H	1:c:226:ASN:HD22	1.45	0.63
1:T:421:SER:OG	1:d:623:ASP:OD1	2.15	0.63
1:Y:294:ASP:OD2	1:4:396:TYR:OH	2.17	0.63
1:i:623:ASP:OD1	1:k:421:SER:OG	2.16	0.63
1:p:294:ASP:OD2	1:q:396:TYR:OH	2.16	0.63
1:u:294:ASP:OD2	1:2:396:TYR:OH	2.16	0.63
1:u:396:TYR:OH	1:5:294:ASP:OD2	2.17	0.63
1:w:623:ASP:OD1	1:y:421:SER:OG	2.16	0.63
1:z:396:TYR:OH	1:4:294:ASP:OD2	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:623:ASP:OD1	1:L:421:SER:OG	2.15	0.62
1:E:623:ASP:OD1	1:F:421:SER:OG	2.15	0.62
1:F:396:TYR:OH	1:R:294:ASP:OD2	2.17	0.62
1:M:226:ASN:HD22	1:N:401:MET:H	1.46	0.62
1:O:294:ASP:OD2	1:P:396:TYR:OH	2.17	0.62
1:S:294:ASP:OD2	1:d:396:TYR:OH	2.17	0.62
1:o:226:ASN:HD22	1:7:401:MET:H	1.45	0.62
1:D:421:SER:OG	1:N:623:ASP:OD1	2.16	0.62
1:D:623:ASP:OD1	1:P:421:SER:OG	2.16	0.62
1:R:396:TYR:OH	1:V:294:ASP:OD2	2.16	0.62
1:S:421:SER:OG	1:U:623:ASP:OD1	2.15	0.62
1:e:294:ASP:OD2	1:h:396:TYR:OH	2.16	0.62
1:o:421:SER:OG	1:p:623:ASP:OD1	2.15	0.62
1:q:294:ASP:OD2	1:y:396:TYR:OH	2.17	0.62
1:t:623:ASP:OD1	1:v:421:SER:OG	2.16	0.62
1:v:396:TYR:OH	1:1:294:ASP:OD2	2.17	0.62
1:z:421:SER:OG	1:1:623:ASP:OD1	2.16	0.62
1:A:396:TYR:OH	1:B:294:ASP:OD2	2.17	0.62
1:L:294:ASP:OD2	1:b:396:TYR:OH	2.17	0.62
1:X:401:MET:H	1:f:226:ASN:HD22	1.46	0.62
1:j:396:TYR:OH	1:l:294:ASP:OD2	2.17	0.62
1:o:294:ASP:OD2	1:7:396:TYR:OH	2.17	0.62
1:C:396:TYR:OH	1:D:294:ASP:OD2	2.16	0.62
1:M:294:ASP:OD2	1:N:396:TYR:OH	2.17	0.62
1:j:421:SER:OG	1:k:623:ASP:OD1	2.16	0.62
1:r:421:SER:OG	1:s:623:ASP:OD1	2.15	0.62
1:3:294:ASP:OD2	1:8:396:TYR:OH	2.17	0.62
1:B:401:MET:H	1:C:226:ASN:HD22	1.45	0.62
1:Z:396:TYR:OH	1:a:294:ASP:OD2	2.17	0.62
1:g:226:ASN:HD22	1:1:401:MET:H	1.45	0.62
1:v:401:MET:H	1:1:226:ASN:HD22	1.46	0.62
1:5:421:SER:OG	1:6:623:ASP:OD1	2.16	0.62
1:5:623:ASP:OD1	1:7:421:SER:OG	2.16	0.62
1:H:623:ASP:OD1	1:Y:421:SER:OG	2.16	0.62
1:f:396:TYR:OH	1:z:294:ASP:OD2	2.17	0.62
1:A:401:MET:H	1:B:226:ASN:HD22	1.45	0.62
1:F:294:ASP:OD2	1:G:396:TYR:OH	2.17	0.62
1:V:350:PRO:HB3	1:X:427:GLN:NE2	2.14	0.62
1:g:396:TYR:OH	1:k:294:ASP:OD2	2.17	0.62
1:t:396:TYR:OH	1:y:294:ASP:OD2	2.17	0.62
1:2:294:ASP:OD2	1:3:396:TYR:OH	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:421:SER:OG	1:W:623:ASP:OD1	2.16	0.62
1:J:294:ASP:OD2	1:a:396:TYR:OH	2.17	0.62
1:M:396:TYR:OH	1:c:294:ASP:OD2	2.17	0.62
1:D:396:TYR:OH	1:E:294:ASP:OD2	2.17	0.62
1:V:350:PRO:HB3	1:X:427:GLN:HE22	1.64	0.62
1:k:396:TYR:OH	1:w:294:ASP:OD2	2.17	0.62
1:k:401:MET:H	1:w:226:ASN:HD22	1.46	0.62
1:D:401:MET:H	1:E:226:ASN:HD22	1.46	0.62
1:N:294:ASP:OD2	1:m:396:TYR:OH	2.17	0.62
1:N:427:GLN:HE22	1:P:350:PRO:HB3	1.65	0.62
1:j:401:MET:H	1:l:226:ASN:HD22	1.46	0.62
1:D:427:GLN:HE22	1:N:350:PRO:HB3	1.65	0.61
1:W:427:GLN:HE22	1:Y:350:PRO:HB3	1.65	0.61
1:5:396:TYR:OH	1:8:294:ASP:OD2	2.17	0.61
1:6:427:GLN:HE22	1:7:350:PRO:HB3	1.65	0.61
1:A:294:ASP:OD2	1:E:396:TYR:OH	2.17	0.61
1:O:226:ASN:HD22	1:P:401:MET:H	1.45	0.61
1:T:294:ASP:OD2	1:U:396:TYR:OH	2.16	0.61
1:T:396:TYR:OH	1:i:294:ASP:OD2	2.16	0.61
1:Z:338:THR:HG21	1:Z:401:MET:HB3	1.82	0.61
1:b:294:ASP:OD2	1:o:396:TYR:OH	2.17	0.61
1:h:226:ASN:HD22	1:i:401:MET:H	1.47	0.61
1:i:350:PRO:HB3	1:k:427:GLN:HE22	1.65	0.61
1:i:427:GLN:HE22	1:j:350:PRO:HB3	1.66	0.61
1:A:309:ARG:NE	1:A:681:GLU:OE1	2.34	0.61
1:H:396:TYR:OH	1:Z:294:ASP:OD2	2.17	0.61
1:H:427:GLN:HE22	1:W:350:PRO:HB3	1.66	0.61
1:I:309:ARG:NE	1:I:681:GLU:OE1	2.34	0.61
1:c:350:PRO:HB3	1:p:427:GLN:NE2	2.16	0.61
1:l:396:TYR:OH	1:n:294:ASP:OD2	2.17	0.61
1:m:294:ASP:OD2	1:s:396:TYR:OH	2.16	0.61
1:v:309:ARG:NE	1:v:681:GLU:OE1	2.34	0.61
1:5:309:ARG:NE	1:5:681:GLU:OE1	2.34	0.61
1:5:427:GLN:HE22	1:6:350:PRO:HB3	1.66	0.61
1:8:338:THR:HG21	1:8:401:MET:HB3	1.83	0.61
1:B:309:ARG:NE	1:B:681:GLU:OE1	2.34	0.61
1:D:350:PRO:HB3	1:P:427:GLN:NE2	2.16	0.61
1:F:350:PRO:HB3	1:Q:427:GLN:NE2	2.15	0.61
1:H:309:ARG:NE	1:H:681:GLU:OE1	2.34	0.61
1:N:427:GLN:NE2	1:P:350:PRO:HB3	2.15	0.61
1:S:309:ARG:NE	1:S:681:GLU:OE1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:427:GLN:NE2	1:e:350:PRO:HB3	2.16	0.61
1:W:309:ARG:NE	1:W:681:GLU:OE1	2.34	0.61
1:W:427:GLN:NE2	1:Y:350:PRO:HB3	2.15	0.61
1:Z:309:ARG:NE	1:Z:681:GLU:OE1	2.34	0.61
1:d:309:ARG:NE	1:d:681:GLU:OE1	2.34	0.61
1:f:350:PRO:HB3	1:g:427:GLN:NE2	2.15	0.61
1:l:338:THR:HG21	1:l:401:MET:HB3	1.82	0.61
1:n:309:ARG:NE	1:n:681:GLU:OE1	2.34	0.61
1:r:309:ARG:NE	1:r:681:GLU:OE1	2.34	0.61
1:u:309:ARG:NE	1:u:681:GLU:OE1	2.34	0.61
1:5:338:THR:HG21	1:5:401:MET:HB3	1.83	0.61
1:6:427:GLN:NE2	1:7:350:PRO:HB3	2.16	0.61
1:8:309:ARG:NE	1:8:681:GLU:OE1	2.34	0.61
1:C:427:GLN:NE2	1:b:350:PRO:HB3	2.16	0.61
1:E:309:ARG:NE	1:E:681:GLU:OE1	2.34	0.61
1:F:309:ARG:NE	1:F:681:GLU:OE1	2.34	0.61
1:H:338:THR:HG21	1:H:401:MET:HB3	1.83	0.61
1:J:309:ARG:NE	1:J:681:GLU:OE1	2.34	0.61
1:L:226:ASN:HD22	1:b:401:MET:H	1.46	0.61
1:L:338:THR:HG21	1:L:401:MET:HB3	1.83	0.61
1:O:338:THR:HG21	1:O:401:MET:HB3	1.83	0.61
1:O:396:TYR:OH	1:d:294:ASP:OD2	2.17	0.61
1:U:294:ASP:OD2	1:e:396:TYR:OH	2.17	0.61
1:Y:309:ARG:NE	1:Y:681:GLU:OE1	2.34	0.61
1:b:309:ARG:NE	1:b:681:GLU:OE1	2.34	0.61
1:c:396:TYR:OH	1:s:294:ASP:OD2	2.17	0.61
1:f:309:ARG:NE	1:f:681:GLU:OE1	2.34	0.61
1:f:401:MET:H	1:z:226:ASN:HD22	1.46	0.61
1:j:427:GLN:NE2	1:k:350:PRO:HB3	2.16	0.61
1:w:338:THR:HG21	1:w:401:MET:HB3	1.83	0.61
1:x:309:ARG:NE	1:x:681:GLU:OE1	2.34	0.61
1:x:427:GLN:NE2	1:y:350:PRO:HB3	2.16	0.61
1:z:338:THR:HG21	1:z:401:MET:HB3	1.83	0.61
1:1:309:ARG:NE	1:1:681:GLU:OE1	2.34	0.61
1:2:309:ARG:NE	1:2:681:GLU:OE1	2.34	0.61
1:6:309:ARG:NE	1:6:681:GLU:OE1	2.34	0.61
1:7:309:ARG:NE	1:7:681:GLU:OE1	2.34	0.61
1:E:338:THR:HG21	1:E:401:MET:HB3	1.83	0.61
1:H:350:PRO:HB3	1:Y:427:GLN:NE2	2.15	0.61
1:N:309:ARG:NE	1:N:681:GLU:OE1	2.34	0.61
1:Q:309:ARG:NE	1:Q:681:GLU:OE1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:396:TYR:OH	1:f:294:ASP:OD2	2.17	0.61
1:h:294:ASP:OD2	1:i:396:TYR:OH	2.18	0.61
1:i:309:ARG:NE	1:i:681:GLU:OE1	2.34	0.61
1:u:427:GLN:HE22	1:v:350:PRO:HB3	1.66	0.61
1:v:294:ASP:OD2	1:w:396:TYR:OH	2.17	0.61
1:w:309:ARG:NE	1:w:681:GLU:OE1	2.34	0.61
1:y:309:ARG:NE	1:y:681:GLU:OE1	2.34	0.61
1:3:350:PRO:HB3	1:4:427:GLN:HE22	1.66	0.61
1:K:338:THR:HG21	1:K:401:MET:HB3	1.83	0.61
1:K:427:GLN:HE22	1:a:350:PRO:HB3	1.66	0.61
1:L:309:ARG:NE	1:L:681:GLU:OE1	2.34	0.61
1:M:338:THR:HG21	1:M:401:MET:HB3	1.83	0.61
1:P:309:ARG:NE	1:P:681:GLU:OE1	2.34	0.61
1:V:401:MET:H	1:W:226:ASN:HD22	1.45	0.61
1:Z:350:PRO:HB3	1:3:427:GLN:NE2	2.16	0.61
1:a:427:GLN:NE2	1:8:350:PRO:HB3	2.16	0.61
1:f:427:GLN:HE22	1:h:350:PRO:HB3	1.66	0.61
1:i:427:GLN:NE2	1:j:350:PRO:HB3	2.16	0.61
1:j:309:ARG:NE	1:j:681:GLU:OE1	2.34	0.61
1:m:309:ARG:NE	1:m:681:GLU:OE1	2.34	0.61
1:4:338:THR:HG21	1:4:401:MET:HB3	1.83	0.61
1:5:350:PRO:HB3	1:7:427:GLN:NE2	2.16	0.61
1:A:338:THR:HG21	1:A:401:MET:HB3	1.83	0.61
1:B:350:PRO:HB3	1:L:427:GLN:NE2	2.16	0.61
1:E:350:PRO:HB3	1:F:427:GLN:NE2	2.16	0.61
1:F:350:PRO:HB3	1:Q:427:GLN:HE22	1.66	0.61
1:H:427:GLN:NE2	1:W:350:PRO:HB3	2.16	0.61
1:K:427:GLN:NE2	1:a:350:PRO:HB3	2.16	0.61
1:T:309:ARG:NE	1:T:681:GLU:OE1	2.34	0.61
1:h:309:ARG:NE	1:h:681:GLU:OE1	2.34	0.61
1:z:309:ARG:NE	1:z:681:GLU:OE1	2.34	0.61
1:3:309:ARG:NE	1:3:681:GLU:OE1	2.34	0.61
1:M:309:ARG:NE	1:M:681:GLU:OE1	2.34	0.61
1:P:338:THR:HG21	1:P:401:MET:HB3	1.83	0.61
1:a:309:ARG:NE	1:a:681:GLU:OE1	2.34	0.61
1:h:338:THR:HG21	1:h:401:MET:HB3	1.83	0.61
1:j:338:THR:HG21	1:j:401:MET:HB3	1.83	0.61
1:p:401:MET:H	1:6:226:ASN:HD22	1.45	0.61
1:q:338:THR:HG21	1:q:401:MET:HB3	1.83	0.61
1:r:427:GLN:NE2	1:s:350:PRO:HB3	2.16	0.61
1:u:338:THR:HG21	1:u:401:MET:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:338:THR:HG21	1:v:401:MET:HB3	1.83	0.61
1:w:350:PRO:HB3	1:y:427:GLN:NE2	2.16	0.61
1:x:427:GLN:HE22	1:y:350:PRO:HB3	1.66	0.61
1:z:427:GLN:NE2	1:1:350:PRO:HB3	2.16	0.61
1:3:350:PRO:HB3	1:4:427:GLN:NE2	2.16	0.61
1:5:427:GLN:NE2	1:6:350:PRO:HB3	2.16	0.61
1:A:427:GLN:HE22	1:G:350:PRO:HB3	1.66	0.61
1:D:309:ARG:NE	1:D:681:GLU:OE1	2.34	0.61
1:H:401:MET:H	1:Z:226:ASN:HD22	1.46	0.61
1:I:338:THR:HG21	1:I:401:MET:HB3	1.83	0.61
1:R:309:ARG:NE	1:R:681:GLU:OE1	2.34	0.61
1:S:427:GLN:NE2	1:U:350:PRO:HB3	2.16	0.61
1:d:427:GLN:HE22	1:l:350:PRO:HB3	1.66	0.61
1:f:350:PRO:HB3	1:g:427:GLN:HE22	1.65	0.61
1:g:350:PRO:HB3	1:h:427:GLN:NE2	2.16	0.61
1:i:350:PRO:HB3	1:k:427:GLN:NE2	2.15	0.61
1:s:338:THR:HG21	1:s:401:MET:HB3	1.83	0.61
1:5:401:MET:H	1:8:226:ASN:HD22	1.46	0.61
1:A:350:PRO:HB3	1:I:427:GLN:HE22	1.66	0.60
1:C:427:GLN:HE22	1:b:350:PRO:HB3	1.66	0.60
1:D:427:GLN:NE2	1:N:350:PRO:HB3	2.15	0.60
1:K:309:ARG:NE	1:K:681:GLU:OE1	2.34	0.60
1:M:350:PRO:HB3	1:b:427:GLN:HE22	1.66	0.60
1:O:350:PRO:HB3	1:n:427:GLN:HE22	1.66	0.60
1:U:338:THR:HG21	1:U:401:MET:HB3	1.83	0.60
1:c:338:THR:HG21	1:c:401:MET:HB3	1.83	0.60
1:k:309:ARG:NE	1:k:681:GLU:OE1	2.34	0.60
1:l:309:ARG:NE	1:l:681:GLU:OE1	2.34	0.60
1:o:427:GLN:NE2	1:p:350:PRO:HB3	2.16	0.60
1:q:309:ARG:NE	1:q:681:GLU:OE1	2.34	0.60
1:4:309:ARG:NE	1:4:681:GLU:OE1	2.34	0.60
1:5:350:PRO:HB3	1:7:427:GLN:HE22	1.65	0.60
1:6:338:THR:HG21	1:6:401:MET:HB3	1.83	0.60
1:O:309:ARG:NE	1:O:681:GLU:OE1	2.34	0.60
1:R:338:THR:HG21	1:R:401:MET:HB3	1.83	0.60
1:W:338:THR:HG21	1:W:401:MET:HB3	1.83	0.60
1:c:427:GLN:HE22	1:o:350:PRO:HB3	1.66	0.60
1:d:338:THR:HG21	1:d:401:MET:HB3	1.83	0.60
1:e:338:THR:HG21	1:e:401:MET:HB3	1.83	0.60
1:t:350:PRO:HB3	1:v:427:GLN:HE22	1.66	0.60
1:u:427:GLN:NE2	1:v:350:PRO:HB3	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:427:GLN:NE2	1:x:350:PRO:HB3	2.16	0.60
1:A:350:PRO:HB3	1:I:427:GLN:NE2	2.16	0.60
1:E:427:GLN:NE2	1:Q:350:PRO:HB3	2.16	0.60
1:J:560:GLU:O	1:J:563:ILE:HG12	2.02	0.60
1:X:338:THR:HG21	1:X:401:MET:HB3	1.83	0.60
1:X:350:PRO:HB3	1:e:427:GLN:HE22	1.67	0.60
1:Z:350:PRO:HB3	1:3:427:GLN:HE22	1.66	0.60
1:n:338:THR:HG21	1:n:401:MET:HB3	1.83	0.60
1:o:338:THR:HG21	1:o:401:MET:HB3	1.83	0.60
1:o:427:GLN:HE22	1:p:350:PRO:HB3	1.66	0.60
1:t:309:ARG:NE	1:t:681:GLU:OE1	2.34	0.60
1:2:560:GLU:O	1:2:563:ILE:HG12	2.02	0.60
1:F:560:GLU:O	1:F:563:ILE:HG12	2.02	0.60
1:H:350:PRO:HB3	1:Y:427:GLN:HE22	1.66	0.60
1:H:560:GLU:O	1:H:563:ILE:HG12	2.02	0.60
1:K:350:PRO:HB3	1:8:427:GLN:NE2	2.16	0.60
1:R:350:PRO:HB3	1:U:427:GLN:HE22	1.66	0.60
1:R:350:PRO:HB3	1:U:427:GLN:NE2	2.16	0.60
1:X:309:ARG:NE	1:X:681:GLU:OE1	2.34	0.60
1:a:427:GLN:HE22	1:8:350:PRO:HB3	1.66	0.60
1:k:560:GLU:O	1:k:563:ILE:HG12	2.02	0.60
1:o:309:ARG:NE	1:o:681:GLU:OE1	2.34	0.60
1:s:309:ARG:NE	1:s:681:GLU:OE1	2.34	0.60
1:x:338:THR:HG21	1:x:401:MET:HB3	1.83	0.60
1:y:560:GLU:O	1:y:563:ILE:HG12	2.02	0.60
1:z:350:PRO:HB3	1:2:427:GLN:NE2	2.16	0.60
1:1:427:GLN:NE2	1:2:350:PRO:HB3	2.16	0.60
1:5:560:GLU:O	1:5:563:ILE:HG12	2.02	0.60
1:B:427:GLN:NE2	1:J:350:PRO:HB3	2.16	0.60
1:C:350:PRO:HB3	1:M:427:GLN:NE2	2.16	0.60
1:G:309:ARG:NE	1:G:681:GLU:OE1	2.34	0.60
1:G:427:GLN:HE22	1:I:350:PRO:HB3	1.66	0.60
1:G:427:GLN:NE2	1:I:350:PRO:HB3	2.16	0.60
1:I:560:GLU:O	1:I:563:ILE:HG12	2.02	0.60
1:Q:338:THR:HG21	1:Q:401:MET:HB3	1.83	0.60
1:Q:560:GLU:O	1:Q:563:ILE:HG12	2.02	0.60
1:Z:427:GLN:NE2	1:4:350:PRO:HB3	2.16	0.60
1:Z:560:GLU:O	1:Z:563:ILE:HG12	2.02	0.60
1:a:338:THR:HG21	1:a:401:MET:HB3	1.83	0.60
1:b:560:GLU:O	1:b:563:ILE:HG12	2.02	0.60
1:c:309:ARG:NE	1:c:681:GLU:OE1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:309:ARG:NE	1:e:681:GLU:OE1	2.34	0.60
1:f:560:GLU:O	1:f:563:ILE:HG12	2.02	0.60
1:g:309:ARG:NE	1:g:681:GLU:OE1	2.34	0.60
1:i:421:SER:OG	1:j:623:ASP:OD1	2.16	0.60
1:m:427:GLN:NE2	1:n:350:PRO:HB3	2.16	0.60
1:q:350:PRO:HB3	1:s:427:GLN:HE22	1.66	0.60
1:q:350:PRO:HB3	1:s:427:GLN:NE2	2.16	0.60
1:x:560:GLU:O	1:x:563:ILE:HG12	2.02	0.60
1:z:560:GLU:O	1:z:563:ILE:HG12	2.02	0.60
1:7:338:THR:HG21	1:7:401:MET:HB3	1.83	0.60
1:C:309:ARG:NE	1:C:681:GLU:OE1	2.34	0.60
1:C:338:THR:HG21	1:C:401:MET:HB3	1.83	0.60
1:D:560:GLU:O	1:D:563:ILE:HG12	2.02	0.60
1:E:427:GLN:HE22	1:Q:350:PRO:HB3	1.67	0.60
1:J:427:GLN:NE2	1:L:350:PRO:HB3	2.16	0.60
1:L:560:GLU:O	1:L:563:ILE:HG12	2.02	0.60
1:N:560:GLU:O	1:N:563:ILE:HG12	2.02	0.60
1:O:427:GLN:NE2	1:m:350:PRO:HB3	2.16	0.60
1:R:427:GLN:HE22	1:S:350:PRO:HB3	1.66	0.60
1:T:427:GLN:NE2	1:d:350:PRO:HB3	2.16	0.60
1:U:309:ARG:NE	1:U:681:GLU:OE1	2.34	0.60
1:a:560:GLU:O	1:a:563:ILE:HG12	2.02	0.60
1:d:427:GLN:NE2	1:l:350:PRO:HB3	2.16	0.60
1:g:338:THR:HG21	1:g:401:MET:HB3	1.83	0.60
1:i:338:THR:HG21	1:i:401:MET:HB3	1.83	0.60
1:j:560:GLU:O	1:j:563:ILE:HG12	2.02	0.60
1:q:427:GLN:HE22	1:r:350:PRO:HB3	1.66	0.60
1:u:560:GLU:O	1:u:563:ILE:HG12	2.02	0.60
1:w:427:GLN:HE22	1:x:350:PRO:HB3	1.67	0.60
1:2:338:THR:HG21	1:2:401:MET:HB3	1.83	0.60
1:3:560:GLU:O	1:3:563:ILE:HG12	2.02	0.60
1:C:560:GLU:O	1:C:563:ILE:HG12	2.02	0.60
1:F:338:THR:HG21	1:F:401:MET:HB3	1.83	0.60
1:J:338:THR:HG21	1:J:401:MET:HB3	1.83	0.60
1:K:560:GLU:O	1:K:563:ILE:HG12	2.02	0.60
1:N:421:SER:OG	1:P:623:ASP:OD1	2.16	0.60
1:P:560:GLU:O	1:P:563:ILE:HG12	2.02	0.60
1:T:350:PRO:HB3	1:l:427:GLN:NE2	2.16	0.60
1:T:560:GLU:O	1:T:563:ILE:HG12	2.02	0.60
1:V:427:GLN:HE22	1:e:350:PRO:HB3	1.66	0.60
1:Y:338:THR:HG21	1:Y:401:MET:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:560:GLU:O	1:m:563:ILE:HG12	2.02	0.60
1:3:338:THR:HG21	1:3:401:MET:HB3	1.83	0.60
1:4:560:GLU:O	1:4:563:ILE:HG12	2.02	0.60
1:8:560:GLU:O	1:8:563:ILE:HG12	2.02	0.60
1:B:338:THR:HG21	1:B:401:MET:HB3	1.83	0.60
1:B:560:GLU:O	1:B:563:ILE:HG12	2.02	0.60
1:D:338:THR:HG21	1:D:401:MET:HB3	1.83	0.60
1:O:350:PRO:HB3	1:n:427:GLN:NE2	2.16	0.60
1:T:427:GLN:HE22	1:d:350:PRO:HB3	1.66	0.60
1:g:560:GLU:O	1:g:563:ILE:HG12	2.02	0.60
1:i:560:GLU:O	1:i:563:ILE:HG12	2.02	0.60
1:p:338:THR:HG21	1:p:401:MET:HB3	1.83	0.60
1:t:427:GLN:NE2	1:u:350:PRO:HB3	2.16	0.60
1:1:338:THR:HG21	1:1:401:MET:HB3	1.83	0.60
1:A:427:GLN:NE2	1:G:350:PRO:HB3	2.16	0.60
1:G:560:GLU:O	1:G:563:ILE:HG12	2.02	0.60
1:M:350:PRO:HB3	1:b:427:GLN:NE2	2.16	0.60
1:N:338:THR:HG21	1:N:401:MET:HB3	1.83	0.60
1:V:338:THR:HG21	1:V:401:MET:HB3	1.83	0.60
1:X:350:PRO:HB3	1:e:427:GLN:NE2	2.16	0.60
1:c:350:PRO:HB3	1:p:427:GLN:HE22	1.66	0.60
1:c:427:GLN:NE2	1:o:350:PRO:HB3	2.16	0.60
1:t:427:GLN:HE22	1:u:350:PRO:HB3	1.67	0.60
1:v:560:GLU:O	1:v:563:ILE:HG12	2.02	0.60
1:y:338:THR:HG21	1:y:401:MET:HB3	1.83	0.60
1:z:350:PRO:HB3	1:2:427:GLN:HE22	1.66	0.60
1:1:560:GLU:O	1:1:563:ILE:HG12	2.02	0.60
1:A:560:GLU:O	1:A:563:ILE:HG12	2.02	0.60
1:G:338:THR:HG21	1:G:401:MET:HB3	1.83	0.60
1:R:427:GLN:NE2	1:S:350:PRO:HB3	2.16	0.60
1:h:560:GLU:O	1:h:563:ILE:HG12	2.02	0.60
1:k:338:THR:HG21	1:k:401:MET:HB3	1.83	0.60
1:l:560:GLU:O	1:l:563:ILE:HG12	2.02	0.60
1:m:427:GLN:HE22	1:n:350:PRO:HB3	1.66	0.60
1:s:560:GLU:O	1:s:563:ILE:HG12	2.02	0.60
1:t:560:GLU:O	1:t:563:ILE:HG12	2.02	0.60
1:J:427:GLN:HE22	1:L:350:PRO:HB3	1.66	0.59
1:M:560:GLU:O	1:M:563:ILE:HG12	2.02	0.59
1:O:560:GLU:O	1:O:563:ILE:HG12	2.02	0.59
1:T:338:THR:HG21	1:T:401:MET:HB3	1.83	0.59
1:U:560:GLU:O	1:U:563:ILE:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:560:GLU:O	1:X:563:ILE:HG12	2.02	0.59
1:f:427:GLN:NE2	1:h:350:PRO:HB3	2.16	0.59
1:g:350:PRO:HB3	1:h:427:GLN:HE22	1.66	0.59
1:m:338:THR:HG21	1:m:401:MET:HB3	1.83	0.59
1:p:309:ARG:NE	1:p:681:GLU:OE1	2.34	0.59
1:q:427:GLN:NE2	1:r:350:PRO:HB3	2.16	0.59
1:r:560:GLU:O	1:r:563:ILE:HG12	2.02	0.59
1:t:338:THR:HG21	1:t:401:MET:HB3	1.83	0.59
1:B:350:PRO:HB3	1:L:427:GLN:HE22	1.66	0.59
1:o:560:GLU:O	1:o:563:ILE:HG12	2.02	0.59
1:t:350:PRO:HB3	1:v:427:GLN:NE2	2.16	0.59
1:C:350:PRO:HB3	1:M:427:GLN:HE22	1.66	0.59
1:S:560:GLU:O	1:S:563:ILE:HG12	2.02	0.59
1:V:309:ARG:NE	1:V:681:GLU:OE1	2.34	0.59
1:V:560:GLU:O	1:V:563:ILE:HG12	2.02	0.59
1:z:427:GLN:HE22	1:1:350:PRO:HB3	1.66	0.59
1:e:560:GLU:O	1:e:563:ILE:HG12	2.02	0.59
1:7:560:GLU:O	1:7:563:ILE:HG12	2.02	0.59
1:E:350:PRO:HB3	1:F:427:GLN:HE22	1.66	0.59
1:Y:560:GLU:O	1:Y:563:ILE:HG12	2.02	0.59
1:p:560:GLU:O	1:p:563:ILE:HG12	2.02	0.59
1:c:560:GLU:O	1:c:563:ILE:HG12	2.02	0.59
1:W:560:GLU:O	1:W:563:ILE:HG12	2.02	0.59
1:Z:427:GLN:HE22	1:4:350:PRO:HB3	1.67	0.59
1:r:338:THR:HG21	1:r:401:MET:HB3	1.83	0.59
1:w:350:PRO:HB3	1:y:427:GLN:HE22	1.66	0.59
1:E:560:GLU:O	1:E:563:ILE:HG12	2.02	0.59
1:K:350:PRO:HB3	1:8:427:GLN:HE22	1.67	0.59
1:S:338:THR:HG21	1:S:401:MET:HB3	1.83	0.59
1:S:427:GLN:HE22	1:U:350:PRO:HB3	1.66	0.59
1:T:350:PRO:HB3	1:l:427:GLN:HE22	1.67	0.59
1:w:560:GLU:O	1:w:563:ILE:HG12	2.02	0.59
1:D:350:PRO:HB3	1:P:427:GLN:HE22	1.66	0.59
1:O:427:GLN:HE22	1:m:350:PRO:HB3	1.66	0.59
1:f:338:THR:HG21	1:f:401:MET:HB3	1.83	0.59
1:6:560:GLU:O	1:6:563:ILE:HG12	2.02	0.59
1:r:427:GLN:HE22	1:s:350:PRO:HB3	1.66	0.59
1:j:427:GLN:HE22	1:k:350:PRO:HB3	1.66	0.58
1:b:338:THR:HG21	1:b:401:MET:HB3	1.83	0.58
1:h:224:SER:HG	1:h:316:ASN:H	1.50	0.58
1:J:731:ARG:HH11	1:L:621:HIS:CD2	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:560:GLU:O	1:q:563:ILE:HG12	2.02	0.58
1:z:621:HIS:CD2	1:2:731:ARG:HH11	2.22	0.58
1:1:427:GLN:HE22	1:2:350:PRO:HB3	1.66	0.58
1:A:621:HIS:CD2	1:I:731:ARG:HH11	2.22	0.58
1:B:427:GLN:HE22	1:J:350:PRO:HB3	1.66	0.58
1:M:224:SER:HG	1:M:316:ASN:H	1.50	0.58
1:R:560:GLU:O	1:R:563:ILE:HG12	2.02	0.58
1:Z:621:HIS:CD2	1:3:731:ARG:HH11	2.22	0.58
1:a:731:ARG:HH11	1:8:621:HIS:CD2	2.22	0.58
1:n:560:GLU:O	1:n:563:ILE:HG12	2.02	0.58
1:w:731:ARG:HH11	1:x:621:HIS:CD2	2.22	0.58
1:E:731:ARG:HH11	1:Q:621:HIS:CD2	2.22	0.58
1:d:560:GLU:O	1:d:563:ILE:HG12	2.02	0.58
1:G:731:ARG:HH11	1:I:621:HIS:CD2	2.22	0.58
1:T:731:ARG:HH11	1:d:621:HIS:CD2	2.22	0.58
1:m:731:ARG:HH11	1:n:621:HIS:CD2	2.22	0.58
1:t:731:ARG:HH11	1:u:621:HIS:CD2	2.22	0.58
1:C:731:ARG:HH11	1:b:621:HIS:CD2	2.22	0.58
1:K:731:ARG:HH11	1:a:621:HIS:CD2	2.22	0.58
1:f:731:ARG:HH11	1:h:621:HIS:CD2	2.22	0.58
1:g:621:HIS:CD2	1:h:731:ARG:HH11	2.21	0.58
1:p:224:SER:HG	1:p:316:ASN:H	1.51	0.58
1:r:731:ARG:HH11	1:s:621:HIS:CD2	2.22	0.58
1:u:731:ARG:HH11	1:v:621:HIS:CD2	2.22	0.58
1:R:621:HIS:CD2	1:U:731:ARG:HH11	2.22	0.57
1:d:731:ARG:HH11	1:l:621:HIS:CD2	2.22	0.57
1:f:621:HIS:CD2	1:g:731:ARG:HH11	2.22	0.57
1:q:621:HIS:CD2	1:s:731:ARG:HH11	2.22	0.57
1:3:621:HIS:CD2	1:4:731:ARG:HH11	2.22	0.57
1:O:621:HIS:CD2	1:n:731:ARG:HH11	2.22	0.57
1:R:731:ARG:HH11	1:S:621:HIS:CD2	2.22	0.57
1:S:731:ARG:HH11	1:U:621:HIS:CD2	2.22	0.57
1:U:448:GLN:NE2	1:U:454:GLN:HB3	2.20	0.57
1:b:224:SER:HG	1:b:316:ASN:H	1.51	0.57
1:s:448:GLN:NE2	1:s:454:GLN:HB3	2.20	0.57
1:H:731:ARG:HH11	1:W:621:HIS:CD2	2.23	0.57
1:M:621:HIS:CD2	1:b:731:ARG:HH11	2.22	0.57
1:q:731:ARG:HH11	1:r:621:HIS:CD2	2.22	0.57
1:x:731:ARG:HH11	1:y:621:HIS:CD2	2.22	0.57
1:1:731:ARG:HH11	1:2:621:HIS:CD2	2.22	0.57
1:5:731:ARG:HH11	1:6:621:HIS:CD2	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:621:HIS:CD2	1:Q:731:ARG:HH11	2.22	0.57
1:Q:448:GLN:NE2	1:Q:454:GLN:HB3	2.19	0.57
1:x:448:GLN:NE2	1:x:454:GLN:HB3	2.19	0.57
1:B:621:HIS:CD2	1:L:731:ARG:HH11	2.22	0.57
1:B:731:ARG:HH11	1:J:621:HIS:CD2	2.22	0.57
1:K:621:HIS:CD2	1:8:731:ARG:HH11	2.22	0.57
1:Y:448:GLN:NE2	1:Y:454:GLN:HB3	2.19	0.57
1:Z:731:ARG:HH11	1:4:621:HIS:CD2	2.22	0.57
1:C:621:HIS:CD2	1:M:731:ARG:HH11	2.22	0.57
1:E:621:HIS:CD2	1:F:731:ARG:HH11	2.22	0.57
1:M:448:GLN:NE2	1:M:454:GLN:HB3	2.19	0.57
1:O:448:GLN:NE2	1:O:454:GLN:HB3	2.19	0.57
1:l:448:GLN:NE2	1:l:454:GLN:HB3	2.19	0.57
1:o:731:ARG:HH11	1:p:621:HIS:CD2	2.22	0.57
1:w:621:HIS:CD2	1:y:731:ARG:HH11	2.22	0.57
1:3:448:GLN:NE2	1:3:454:GLN:HB3	2.19	0.57
1:7:448:GLN:NE2	1:7:454:GLN:HB3	2.20	0.57
1:I:420:HIS:CD2	1:I:726:THR:HG21	2.40	0.57
1:S:448:GLN:NE2	1:S:454:GLN:HB3	2.19	0.57
1:h:448:GLN:NE2	1:h:454:GLN:HB3	2.19	0.57
1:z:731:ARG:HH11	1:1:621:HIS:CD2	2.22	0.57
1:D:621:HIS:CD2	1:P:731:ARG:HH11	2.22	0.57
1:K:420:HIS:CD2	1:K:726:THR:HG21	2.40	0.57
1:P:448:GLN:NE2	1:P:454:GLN:HB3	2.19	0.57
1:W:420:HIS:CD2	1:W:726:THR:HG21	2.40	0.57
1:X:223:SER:H	1:Y:406:ASN:HD21	1.53	0.57
1:a:448:GLN:NE2	1:a:454:GLN:HB3	2.19	0.57
1:f:420:HIS:CD2	1:f:726:THR:HG21	2.40	0.57
1:u:420:HIS:CD2	1:u:726:THR:HG21	2.40	0.57
1:B:420:HIS:CD2	1:B:726:THR:HG21	2.40	0.57
1:G:420:HIS:CD2	1:G:726:THR:HG21	2.40	0.57
1:H:621:HIS:CD2	1:Y:731:ARG:HH11	2.22	0.57
1:V:731:ARG:HH11	1:e:621:HIS:CD2	2.22	0.57
1:b:420:HIS:CD2	1:b:726:THR:HG21	2.40	0.57
1:n:420:HIS:CD2	1:n:726:THR:HG21	2.40	0.57
1:4:420:HIS:CD2	1:4:726:THR:HG21	2.40	0.57
1:C:420:HIS:CD2	1:C:726:THR:HG21	2.40	0.57
1:O:731:ARG:HH11	1:m:621:HIS:CD2	2.22	0.57
1:c:731:ARG:HH11	1:o:621:HIS:CD2	2.22	0.57
1:d:420:HIS:CD2	1:d:726:THR:HG21	2.40	0.57
1:e:420:HIS:CD2	1:e:726:THR:HG21	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:420:HIS:CD2	1:t:726:THR:HG21	2.40	0.57
1:v:420:HIS:CD2	1:v:726:THR:HG21	2.40	0.57
1:1:420:HIS:CD2	1:1:726:THR:HG21	2.40	0.57
1:5:621:HIS:CD2	1:7:731:ARG:HH11	2.23	0.57
1:6:420:HIS:CD2	1:6:726:THR:HG21	2.40	0.57
1:A:420:HIS:CD2	1:A:726:THR:HG21	2.40	0.56
1:N:731:ARG:HH11	1:P:621:HIS:CD2	2.23	0.56
1:X:621:HIS:CD2	1:e:731:ARG:HH11	2.22	0.56
1:c:420:HIS:CD2	1:c:726:THR:HG21	2.40	0.56
1:c:621:HIS:CD2	1:p:731:ARG:HH11	2.22	0.56
1:g:420:HIS:CD2	1:g:726:THR:HG21	2.40	0.56
1:j:420:HIS:CD2	1:j:726:THR:HG21	2.40	0.56
1:8:420:HIS:CD2	1:8:726:THR:HG21	2.40	0.56
1:F:420:HIS:CD2	1:F:726:THR:HG21	2.40	0.56
1:L:420:HIS:CD2	1:L:726:THR:HG21	2.40	0.56
1:O:420:HIS:CD2	1:O:726:THR:HG21	2.40	0.56
1:P:420:HIS:CD2	1:P:726:THR:HG21	2.40	0.56
1:T:621:HIS:CD2	1:l:731:ARG:HH11	2.22	0.56
1:Z:420:HIS:CD2	1:Z:726:THR:HG21	2.40	0.56
1:i:621:HIS:CD2	1:k:731:ARG:HH11	2.23	0.56
1:j:448:GLN:NE2	1:j:454:GLN:HB3	2.20	0.56
1:j:731:ARG:HH11	1:k:621:HIS:CD2	2.23	0.56
1:z:420:HIS:CD2	1:z:726:THR:HG21	2.40	0.56
1:D:731:ARG:HH11	1:N:621:HIS:CD2	2.23	0.56
1:H:420:HIS:CD2	1:H:726:THR:HG21	2.40	0.56
1:H:448:GLN:NE2	1:H:454:GLN:HB3	2.19	0.56
1:J:420:HIS:CD2	1:J:726:THR:HG21	2.40	0.56
1:L:448:GLN:NE2	1:L:454:GLN:HB3	2.20	0.56
1:W:228[B]:HIS:CD2	1:W:241:THR:HG21	2.40	0.56
1:i:731:ARG:HH11	1:j:621:HIS:CD2	2.23	0.56
1:l:420:HIS:CD2	1:l:726:THR:HG21	2.40	0.56
1:o:223:SER:H	1:7:406:ASN:HD21	1.54	0.56
1:p:448:GLN:NE2	1:p:454:GLN:HB3	2.19	0.56
1:y:420:HIS:CD2	1:y:726:THR:HG21	2.40	0.56
1:z:448:GLN:NE2	1:z:454:GLN:HB3	2.20	0.56
1:2:420:HIS:CD2	1:2:726:THR:HG21	2.40	0.56
1:5:448:GLN:NE2	1:5:454:GLN:HB3	2.19	0.56
1:8:448:GLN:NE2	1:8:454:GLN:HB3	2.19	0.56
1:T:420:HIS:CD2	1:T:726:THR:HG21	2.40	0.56
1:U:420:HIS:CD2	1:U:726:THR:HG21	2.40	0.56
1:V:448:GLN:NE2	1:V:454:GLN:HB3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:621:HIS:CD2	1:v:731:ARG:HH11	2.22	0.56
1:5:420:HIS:CD2	1:5:726:THR:HG21	2.40	0.56
1:N:420:HIS:CD2	1:N:726:THR:HG21	2.40	0.56
1:X:420:HIS:CD2	1:X:726:THR:HG21	2.40	0.56
1:Z:448:GLN:NE2	1:Z:454:GLN:HB3	2.19	0.56
1:i:420:HIS:CD2	1:i:726:THR:HG21	2.40	0.56
1:m:420:HIS:CD2	1:m:726:THR:HG21	2.40	0.56
1:o:420:HIS:CD2	1:o:726:THR:HG21	2.40	0.56
1:s:420:HIS:CD2	1:s:726:THR:HG21	2.40	0.56
1:A:731:ARG:HH11	1:G:621:HIS:CD2	2.22	0.56
1:F:223:SER:H	1:G:406:ASN:HD21	1.54	0.56
1:I:223:SER:H	1:J:406:ASN:HD21	1.54	0.56
1:T:223:SER:H	1:U:406:ASN:HD21	1.54	0.56
1:u:223:SER:H	1:2:406:ASN:HD21	1.54	0.56
1:2:448:GLN:NE2	1:2:454:GLN:HB3	2.19	0.56
1:M:420:HIS:CD2	1:M:726:THR:HG21	2.40	0.56
1:Y:420:HIS:CD2	1:Y:726:THR:HG21	2.40	0.56
1:a:420:HIS:CD2	1:a:726:THR:HG21	2.40	0.56
1:m:223:SER:H	1:s:406:ASN:HD21	1.54	0.56
1:3:420:HIS:CD2	1:3:726:THR:HG21	2.40	0.56
1:7:420:HIS:CD2	1:7:726:THR:HG21	2.40	0.56
1:C:406:ASN:HD21	1:D:223:SER:H	1.54	0.56
1:J:448:GLN:NE2	1:J:454:GLN:HB3	2.19	0.56
1:M:223:SER:H	1:N:406:ASN:HD21	1.54	0.56
1:Q:228[B]:HIS:CD2	1:Q:241:THR:HG21	2.40	0.56
1:R:420:HIS:CD2	1:R:726:THR:HG21	2.40	0.56
1:V:420:HIS:CD2	1:V:726:THR:HG21	2.40	0.56
1:h:420:HIS:CD2	1:h:726:THR:HG21	2.40	0.56
1:v:448:GLN:NE2	1:v:454:GLN:HB3	2.19	0.56
1:w:420:HIS:CD2	1:w:726:THR:HG21	2.40	0.56
1:A:448:GLN:NE2	1:A:454:GLN:HB3	2.19	0.56
1:O:228[B]:HIS:CD2	1:O:241:THR:HG21	2.40	0.56
1:Q:420:HIS:CD2	1:Q:726:THR:HG21	2.40	0.56
1:Q:435:PRO:O	1:Q:465:PRO:HG3	2.06	0.56
1:X:448:GLN:NE2	1:X:454:GLN:HB3	2.19	0.56
1:g:406:ASN:HD21	1:k:223:SER:H	1.54	0.56
1:k:420:HIS:CD2	1:k:726:THR:HG21	2.40	0.56
1:l:228[B]:HIS:CD2	1:l:241:THR:HG21	2.40	0.56
1:p:420:HIS:CD2	1:p:726:THR:HG21	2.40	0.56
1:q:420:HIS:CD2	1:q:726:THR:HG21	2.40	0.56
1:x:228[B]:HIS:CD2	1:x:241:THR:HG21	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:420:HIS:CD2	1:x:726:THR:HG21	2.40	0.56
1:x:435:PRO:O	1:x:465:PRO:HG3	2.06	0.56
1:C:435:PRO:O	1:C:465:PRO:HG3	2.06	0.56
1:E:420:HIS:CD2	1:E:726:THR:HG21	2.40	0.56
1:G:228[B]:HIS:CD2	1:G:241:THR:HG21	2.40	0.56
1:H:435:PRO:O	1:H:465:PRO:HG3	2.06	0.56
1:N:403:ARG:H	1:N:406:ASN:HD22	1.54	0.56
1:V:621:HIS:CD2	1:X:731:ARG:HH11	2.23	0.56
1:c:228[B]:HIS:CD2	1:c:241:THR:HG21	2.40	0.56
1:c:448:GLN:NE2	1:c:454:GLN:HB3	2.19	0.56
1:e:228[B]:HIS:CD2	1:e:241:THR:HG21	2.40	0.56
1:g:435:PRO:O	1:g:465:PRO:HG3	2.06	0.56
1:i:403:ARG:H	1:i:406:ASN:HD22	1.54	0.56
1:j:406:ASN:HD21	1:l:223:SER:H	1.54	0.56
1:t:228[B]:HIS:CD2	1:t:241:THR:HG21	2.40	0.56
1:B:435:PRO:O	1:B:465:PRO:HG3	2.06	0.55
1:D:420:HIS:CD2	1:D:726:THR:HG21	2.40	0.55
1:H:223:SER:H	1:I:406:ASN:HD21	1.54	0.55
1:J:223:SER:H	1:a:406:ASN:HD21	1.54	0.55
1:K:274:TYR:OH	1:7:711:THR:HG21	2.07	0.55
1:K:406:ASN:HD21	1:7:223:SER:H	1.54	0.55
1:O:223:SER:H	1:P:406:ASN:HD21	1.54	0.55
1:V:224:SER:HG	1:V:316:ASN:H	1.51	0.55
1:X:403:ARG:H	1:X:406:ASN:HD22	1.54	0.55
1:Y:223:SER:H	1:4:406:ASN:HD21	1.54	0.55
1:Y:711:THR:HG21	1:4:274:TYR:OH	2.07	0.55
1:b:223:SER:H	1:o:406:ASN:HD21	1.54	0.55
1:c:435:PRO:O	1:c:465:PRO:HG3	2.06	0.55
1:d:403:ARG:H	1:d:406:ASN:HD22	1.54	0.55
1:e:435:PRO:O	1:e:465:PRO:HG3	2.06	0.55
1:g:223:SER:H	1:1:406:ASN:HD21	1.54	0.55
1:o:403:ARG:H	1:o:406:ASN:HD22	1.55	0.55
1:o:448:GLN:NE2	1:o:454:GLN:HB3	2.19	0.55
1:u:406:ASN:HD21	1:5:223:SER:H	1.54	0.55
1:2:223:SER:H	1:3:406:ASN:HD21	1.54	0.55
1:5:435:PRO:O	1:5:465:PRO:HG3	2.06	0.55
1:G:435:PRO:O	1:G:465:PRO:HG3	2.06	0.55
1:H:403:ARG:H	1:H:406:ASN:HD22	1.54	0.55
1:K:403:ARG:H	1:K:406:ASN:HD22	1.55	0.55
1:K:435:PRO:O	1:K:465:PRO:HG3	2.06	0.55
1:R:435:PRO:O	1:R:465:PRO:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:406:ASN:HD21	1:f:223:SER:H	1.54	0.55
1:e:448:GLN:NE2	1:e:454:GLN:HB3	2.19	0.55
1:k:406:ASN:HD21	1:w:223:SER:H	1.54	0.55
1:n:403:ARG:H	1:n:406:ASN:HD22	1.54	0.55
1:n:448:GLN:NE2	1:n:454:GLN:HB3	2.19	0.55
1:p:406:ASN:HD21	1:6:223:SER:H	1.54	0.55
1:t:406:ASN:HD21	1:y:223:SER:H	1.54	0.55
1:t:435:PRO:O	1:t:465:PRO:HG3	2.06	0.55
1:1:435:PRO:O	1:1:465:PRO:HG3	2.06	0.55
1:4:403:ARG:H	1:4:406:ASN:HD22	1.55	0.55
1:4:435:PRO:O	1:4:465:PRO:HG3	2.06	0.55
1:5:403:ARG:H	1:5:406:ASN:HD22	1.54	0.55
1:D:406:ASN:HD21	1:E:223:SER:H	1.54	0.55
1:I:435:PRO:O	1:I:465:PRO:HG3	2.06	0.55
1:K:711:THR:HG21	1:L:274:TYR:OH	2.06	0.55
1:N:435:PRO:O	1:N:465:PRO:HG3	2.06	0.55
1:R:274:TYR:OH	1:V:711:THR:HG21	2.07	0.55
1:S:420:HIS:CD2	1:S:726:THR:HG21	2.40	0.55
1:V:406:ASN:HD21	1:W:223:SER:H	1.54	0.55
1:c:403:ARG:H	1:c:406:ASN:HD22	1.54	0.55
1:q:435:PRO:O	1:q:465:PRO:HG3	2.06	0.55
1:u:435:PRO:O	1:u:465:PRO:HG3	2.06	0.55
1:A:223:SER:H	1:E:406:ASN:HD21	1.54	0.55
1:B:228[B]:HIS:CD2	1:B:241:THR:HG21	2.40	0.55
1:B:406:ASN:HD21	1:C:223:SER:H	1.54	0.55
1:D:274:TYR:OH	1:E:711:THR:HG21	2.07	0.55
1:I:403:ARG:H	1:I:406:ASN:HD22	1.54	0.55
1:J:435:PRO:O	1:J:465:PRO:HG3	2.06	0.55
1:M:274:TYR:OH	1:c:711:THR:HG21	2.07	0.55
1:b:435:PRO:O	1:b:465:PRO:HG3	2.06	0.55
1:d:448:GLN:NE2	1:d:454:GLN:HB3	2.19	0.55
1:i:435:PRO:O	1:i:465:PRO:HG3	2.06	0.55
1:j:711:THR:HG21	1:x:274:TYR:OH	2.07	0.55
1:p:435:PRO:O	1:p:465:PRO:HG3	2.06	0.55
1:r:420:HIS:CD2	1:r:726:THR:HG21	2.40	0.55
1:u:403:ARG:H	1:u:406:ASN:HD22	1.55	0.55
1:x:403:ARG:H	1:x:406:ASN:HD22	1.54	0.55
1:6:731:ARG:HH11	1:7:621:HIS:CD2	2.23	0.55
1:F:406:ASN:HD21	1:R:223:SER:H	1.54	0.55
1:F:435:PRO:O	1:F:465:PRO:HG3	2.06	0.55
1:P:711:THR:HG21	1:Q:274:TYR:OH	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:403:ARG:H	1:Q:406:ASN:HD22	1.54	0.55
1:R:403:ARG:H	1:R:406:ASN:HD22	1.55	0.55
1:V:435:PRO:O	1:V:465:PRO:HG3	2.06	0.55
1:Z:274:TYR:OH	1:a:711:THR:HG21	2.07	0.55
1:a:435:PRO:O	1:a:465:PRO:HG3	2.06	0.55
1:e:403:ARG:H	1:e:406:ASN:HD22	1.55	0.55
1:f:435:PRO:O	1:f:465:PRO:HG3	2.06	0.55
1:k:448:GLN:NE2	1:k:454:GLN:HB3	2.20	0.55
1:m:435:PRO:O	1:m:465:PRO:HG3	2.06	0.55
1:p:228[B]:HIS:CD2	1:p:241:THR:HG21	2.40	0.55
1:p:711:THR:HG21	1:q:274:TYR:OH	2.07	0.55
1:q:223:SER:H	1:y:406:ASN:HD21	1.54	0.55
1:q:403:ARG:H	1:q:406:ASN:HD22	1.55	0.55
1:u:711:THR:HG21	1:2:274:TYR:OH	2.07	0.55
1:z:274:TYR:OH	1:4:711:THR:HG21	2.07	0.55
1:2:435:PRO:O	1:2:465:PRO:HG3	2.06	0.55
1:3:435:PRO:O	1:3:465:PRO:HG3	2.06	0.55
1:3:711:THR:HG21	1:8:274:TYR:OH	2.07	0.55
1:A:403:ARG:H	1:A:406:ASN:HD22	1.54	0.55
1:E:403:ARG:H	1:E:406:ASN:HD22	1.55	0.55
1:G:403:ARG:H	1:G:406:ASN:HD22	1.54	0.55
1:I:711:THR:HG21	1:J:274:TYR:OH	2.07	0.55
1:T:435:PRO:O	1:T:465:PRO:HG3	2.06	0.55
1:T:448:GLN:NE2	1:T:454:GLN:HB3	2.19	0.55
1:W:731:ARG:HH11	1:Y:621:HIS:CD2	2.23	0.55
1:g:711:THR:HG21	1:1:274:TYR:OH	2.06	0.55
1:h:223:SER:H	1:i:406:ASN:HD21	1.55	0.55
1:k:274:TYR:OH	1:w:711:THR:HG21	2.07	0.55
1:n:435:PRO:O	1:n:465:PRO:HG3	2.06	0.55
1:v:403:ARG:H	1:v:406:ASN:HD22	1.54	0.55
1:y:435:PRO:O	1:y:465:PRO:HG3	2.06	0.55
1:z:435:PRO:O	1:z:465:PRO:HG3	2.06	0.55
1:1:228[B]:HIS:CD2	1:1:241:THR:HG21	2.40	0.55
1:A:254:HIS:CD2	1:A:650:PRO:HG3	2.42	0.55
1:A:274:TYR:OH	1:B:711:THR:HG21	2.07	0.55
1:D:448:GLN:NE2	1:D:454:GLN:HB3	2.20	0.55
1:G:254:HIS:CD2	1:G:650:PRO:HG3	2.42	0.55
1:H:274:TYR:OH	1:Z:711:THR:HG21	2.07	0.55
1:I:254:HIS:CD2	1:I:650:PRO:HG3	2.42	0.55
1:K:223:SER:H	1:L:406:ASN:HD21	1.54	0.55
1:T:403:ARG:H	1:T:406:ASN:HD22	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:482:ARG:HD3	1:X:578:SER:O	2.07	0.55
1:W:254:HIS:CD2	1:W:650:PRO:HG3	2.42	0.55
1:Y:435:PRO:O	1:Y:465:PRO:HG3	2.06	0.55
1:a:254:HIS:CD2	1:a:650:PRO:HG3	2.42	0.55
1:d:254:HIS:CD2	1:d:650:PRO:HG3	2.42	0.55
1:k:228[B]:HIS:CD2	1:k:241:THR:HG21	2.40	0.55
1:m:403:ARG:H	1:m:406:ASN:HD22	1.55	0.55
1:n:254:HIS:CD2	1:n:650:PRO:HG3	2.42	0.55
1:t:403:ARG:H	1:t:406:ASN:HD22	1.55	0.55
1:t:448:GLN:NE2	1:t:454:GLN:HB3	2.20	0.55
1:u:254:HIS:CD2	1:u:650:PRO:HG3	2.42	0.55
1:v:223:SER:H	1:w:406:ASN:HD21	1.54	0.55
1:3:254:HIS:CD2	1:3:650:PRO:HG3	2.42	0.55
1:5:274:TYR:OH	1:8:711:THR:HG21	2.07	0.55
1:8:254:HIS:CD2	1:8:650:PRO:HG3	2.42	0.55
1:C:254:HIS:CD2	1:C:650:PRO:HG3	2.42	0.55
1:G:711:THR:HG21	1:W:274:TYR:OH	2.07	0.55
1:K:228[B]:HIS:CD2	1:K:241:THR:HG21	2.40	0.55
1:L:435:PRO:O	1:L:465:PRO:HG3	2.06	0.55
1:M:254:HIS:CD2	1:M:650:PRO:HG3	2.42	0.55
1:M:435:PRO:O	1:M:465:PRO:HG3	2.06	0.55
1:O:406:ASN:HD21	1:d:223:SER:H	1.54	0.55
1:Z:254:HIS:CD2	1:Z:650:PRO:HG3	2.42	0.55
1:Z:406:ASN:HD21	1:a:223:SER:H	1.54	0.55
1:a:403:ARG:H	1:a:406:ASN:HD22	1.54	0.55
1:d:435:PRO:O	1:d:465:PRO:HG3	2.06	0.55
1:g:254:HIS:CD2	1:g:650:PRO:HG3	2.42	0.55
1:i:562:GLU:HA	1:j:388:ARG:HH12	1.72	0.55
1:t:254:HIS:CD2	1:t:650:PRO:HG3	2.42	0.55
1:u:274:TYR:OH	1:5:711:THR:HG21	2.07	0.55
1:v:254:HIS:CD2	1:v:650:PRO:HG3	2.42	0.55
1:v:711:THR:HG21	1:w:274:TYR:OH	2.07	0.55
1:w:403:ARG:H	1:w:406:ASN:HD22	1.55	0.55
1:z:406:ASN:HD21	1:4:223:SER:H	1.54	0.55
1:6:254:HIS:CD2	1:6:650:PRO:HG3	2.42	0.55
1:7:435:PRO:O	1:7:465:PRO:HG3	2.06	0.55
1:B:274:TYR:OH	1:C:711:THR:HG21	2.07	0.55
1:D:228[B]:HIS:CD2	1:D:241:THR:HG21	2.40	0.55
1:G:448:GLN:NE2	1:G:454:GLN:HB3	2.20	0.55
1:H:711:THR:HG21	1:I:274:TYR:OH	2.07	0.55
1:J:711:THR:HG21	1:a:274:TYR:OH	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:274:TYR:OH	1:i:711:THR:HG21	2.07	0.55
1:V:228[B]:HIS:CD2	1:V:241:THR:HG21	2.40	0.55
1:V:274:TYR:OH	1:W:711:THR:HG21	2.07	0.55
1:h:254:HIS:CD2	1:h:650:PRO:HG3	2.42	0.55
1:h:435:PRO:O	1:h:465:PRO:HG3	2.06	0.55
1:m:448:GLN:NE2	1:m:454:GLN:HB3	2.19	0.55
1:t:711:THR:HG21	1:6:274:TYR:OH	2.07	0.55
1:v:274:TYR:OH	1:1:711:THR:HG21	2.07	0.55
1:2:254:HIS:CD2	1:2:650:PRO:HG3	2.42	0.55
1:2:711:THR:HG21	1:3:274:TYR:OH	2.07	0.55
1:A:711:THR:HG21	1:E:274:TYR:OH	2.07	0.55
1:C:274:TYR:OH	1:D:711:THR:HG21	2.07	0.55
1:C:403:ARG:H	1:C:406:ASN:HD22	1.55	0.55
1:N:562:GLU:HA	1:P:388:ARG:HH12	1.72	0.55
1:N:711:THR:HG21	1:m:274:TYR:OH	2.07	0.55
1:U:435:PRO:O	1:U:465:PRO:HG3	2.06	0.55
1:V:254:HIS:CD2	1:V:650:PRO:HG3	2.42	0.55
1:Y:403:ARG:H	1:Y:406:ASN:HD22	1.55	0.55
1:j:254:HIS:CD2	1:j:650:PRO:HG3	2.42	0.55
1:l:274:TYR:OH	1:n:711:THR:HG21	2.07	0.55
1:l:406:ASN:HD21	1:n:223:SER:H	1.54	0.55
1:o:228[B]:HIS:CD2	1:o:241:THR:HG21	2.40	0.55
1:q:254:HIS:CD2	1:q:650:PRO:HG3	2.42	0.55
1:r:435:PRO:O	1:r:465:PRO:HG3	2.06	0.55
1:3:223:SER:H	1:8:406:ASN:HD21	1.54	0.55
1:3:403:ARG:H	1:3:406:ASN:HD22	1.54	0.55
1:4:228[B]:HIS:CD2	1:4:241:THR:HG21	2.40	0.55
1:7:403:ARG:H	1:7:406:ASN:HD22	1.55	0.55
1:8:435:PRO:O	1:8:465:PRO:HG3	2.06	0.55
1:D:403:ARG:H	1:D:406:ASN:HD22	1.54	0.54
1:J:254:HIS:CD2	1:J:650:PRO:HG3	2.42	0.54
1:N:254:HIS:CD2	1:N:650:PRO:HG3	2.42	0.54
1:P:254:HIS:CD2	1:P:650:PRO:HG3	2.42	0.54
1:R:254:HIS:CD2	1:R:650:PRO:HG3	2.42	0.54
1:S:435:PRO:O	1:S:465:PRO:HG3	2.06	0.54
1:S:711:THR:HG21	1:d:274:TYR:OH	2.07	0.54
1:Z:435:PRO:O	1:Z:465:PRO:HG3	2.06	0.54
1:e:711:THR:HG21	1:h:274:TYR:OH	2.07	0.54
1:f:448:GLN:NE2	1:f:454:GLN:HB3	2.19	0.54
1:g:274:TYR:OH	1:k:711:THR:HG21	2.07	0.54
1:p:274:TYR:OH	1:6:711:THR:HG21	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:435:PRO:O	1:s:465:PRO:HG3	2.06	0.54
1:4:254:HIS:CD2	1:4:650:PRO:HG3	2.42	0.54
1:F:274:TYR:OH	1:R:711:THR:HG21	2.07	0.54
1:K:254:HIS:CD2	1:K:650:PRO:HG3	2.42	0.54
1:O:274:TYR:OH	1:d:711:THR:HG21	2.07	0.54
1:O:711:THR:HG21	1:P:274:TYR:OH	2.07	0.54
1:U:403:ARG:H	1:U:406:ASN:HD22	1.54	0.54
1:X:435:PRO:O	1:X:465:PRO:HG3	2.06	0.54
1:g:403:ARG:H	1:g:406:ASN:HD22	1.55	0.54
1:j:562:GLU:HA	1:k:388:ARG:HH12	1.72	0.54
1:k:403:ARG:H	1:k:406:ASN:HD22	1.55	0.54
1:l:254:HIS:CD2	1:l:650:PRO:HG3	2.42	0.54
1:n:274:TYR:OH	1:r:711:THR:HG21	2.07	0.54
1:q:711:THR:HG21	1:y:274:TYR:OH	2.07	0.54
1:r:254:HIS:CD2	1:r:650:PRO:HG3	2.42	0.54
1:s:403:ARG:H	1:s:406:ASN:HD22	1.54	0.54
1:1:254:HIS:CD2	1:1:650:PRO:HG3	2.42	0.54
1:B:254:HIS:CD2	1:B:650:PRO:HG3	2.42	0.54
1:D:388:ARG:HH12	1:P:562:GLU:HA	1.72	0.54
1:D:435:PRO:O	1:D:465:PRO:HG3	2.06	0.54
1:F:254:HIS:CD2	1:F:650:PRO:HG3	2.42	0.54
1:O:254:HIS:CD2	1:O:650:PRO:HG3	2.42	0.54
1:R:448:GLN:NE2	1:R:454:GLN:HB3	2.20	0.54
1:S:254:HIS:CD2	1:S:650:PRO:HG3	2.42	0.54
1:f:274:TYR:OH	1:z:711:THR:HG21	2.07	0.54
1:j:274:TYR:OH	1:l:711:THR:HG21	2.07	0.54
1:k:435:PRO:O	1:k:465:PRO:HG3	2.06	0.54
1:o:254:HIS:CD2	1:o:650:PRO:HG3	2.42	0.54
1:p:254:HIS:CD2	1:p:650:PRO:HG3	2.42	0.54
1:q:448:GLN:NE2	1:q:454:GLN:HB3	2.20	0.54
1:y:254:HIS:CD2	1:y:650:PRO:HG3	2.42	0.54
1:5:388:ARG:HH12	1:7:562:GLU:HA	1.72	0.54
1:6:403:ARG:H	1:6:406:ASN:HD22	1.54	0.54
1:E:320:LYS:HE2	1:E:333:ASN:OD1	2.08	0.54
1:O:435:PRO:O	1:O:465:PRO:HG3	2.06	0.54
1:P:403:ARG:H	1:P:406:ASN:HD22	1.55	0.54
1:Q:254:HIS:CD2	1:Q:650:PRO:HG3	2.42	0.54
1:U:711:THR:HG21	1:e:274:TYR:OH	2.07	0.54
1:W:403:ARG:H	1:W:406:ASN:HD22	1.55	0.54
1:X:254:HIS:CD2	1:X:650:PRO:HG3	2.42	0.54
1:X:388:ARG:HH12	1:e:562:GLU:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:448:GLN:NE2	1:b:454:GLN:HB3	2.19	0.54
1:g:320:LYS:HE2	1:g:333:ASN:OD1	2.08	0.54
1:i:254:HIS:CD2	1:i:650:PRO:HG3	2.42	0.54
1:j:403:ARG:H	1:j:406:ASN:HD22	1.55	0.54
1:o:435:PRO:O	1:o:465:PRO:HG3	2.06	0.54
1:o:711:THR:HG21	1:7:274:TYR:OH	2.07	0.54
1:t:274:TYR:OH	1:y:711:THR:HG21	2.07	0.54
1:w:320:LYS:HE2	1:w:333:ASN:OD1	2.08	0.54
1:A:435:PRO:O	1:A:465:PRO:HG3	2.06	0.54
1:C:320:LYS:HE2	1:C:333:ASN:OD1	2.08	0.54
1:F:711:THR:HG21	1:G:274:TYR:OH	2.07	0.54
1:H:254:HIS:CD2	1:H:650:PRO:HG3	2.42	0.54
1:H:388:ARG:HH12	1:Y:562:GLU:HA	1.72	0.54
1:I:320:LYS:HE2	1:I:333:ASN:OD1	2.08	0.54
1:L:711:THR:HG21	1:b:274:TYR:OH	2.07	0.54
1:M:320:LYS:HE2	1:M:333:ASN:OD1	2.08	0.54
1:O:320:LYS:HE2	1:O:333:ASN:OD1	2.08	0.54
1:O:403:ARG:H	1:O:406:ASN:HD22	1.54	0.54
1:S:228[B]:HIS:CD2	1:S:241:THR:HG21	2.40	0.54
1:W:435:PRO:O	1:W:465:PRO:HG3	2.06	0.54
1:Z:403:ARG:H	1:Z:406:ASN:HD22	1.55	0.54
1:b:254:HIS:CD2	1:b:650:PRO:HG3	2.42	0.54
1:h:320:LYS:HE2	1:h:333:ASN:OD1	2.08	0.54
1:h:403:ARG:H	1:h:406:ASN:HD22	1.54	0.54
1:l:320:LYS:HE2	1:l:333:ASN:OD1	2.08	0.54
1:l:403:ARG:H	1:l:406:ASN:HD22	1.54	0.54
1:m:254:HIS:CD2	1:m:650:PRO:HG3	2.42	0.54
1:q:388:ARG:HH12	1:s:562:GLU:HA	1.73	0.54
1:r:406:ASN:HD21	1:x:223:SER:H	1.54	0.54
1:u:320:LYS:HE2	1:u:333:ASN:OD1	2.08	0.54
1:x:254:HIS:CD2	1:x:650:PRO:HG3	2.42	0.54
1:y:403:ARG:H	1:y:406:ASN:HD22	1.54	0.54
1:6:435:PRO:O	1:6:465:PRO:HG3	2.06	0.54
1:6:448:GLN:NE2	1:6:454:GLN:HB3	2.19	0.54
1:F:403:ARG:H	1:F:406:ASN:HD22	1.54	0.54
1:M:403:ARG:H	1:M:406:ASN:HD22	1.55	0.54
1:M:711:THR:HG21	1:N:274:TYR:OH	2.07	0.54
1:Q:223:SER:H	1:S:406:ASN:HD21	1.54	0.54
1:R:388:ARG:HH12	1:U:562:GLU:HA	1.73	0.54
1:T:254:HIS:CD2	1:T:650:PRO:HG3	2.42	0.54
1:Y:320:LYS:HE2	1:Y:333:ASN:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:274:TYR:OH	1:s:711:THR:HG21	2.07	0.54
1:c:406:ASN:HD21	1:s:223:SER:H	1.55	0.54
1:f:254:HIS:CD2	1:f:650:PRO:HG3	2.42	0.54
1:l:435:PRO:O	1:l:465:PRO:HG3	2.06	0.54
1:v:435:PRO:O	1:v:465:PRO:HG3	2.06	0.54
1:z:254:HIS:CD2	1:z:650:PRO:HG3	2.42	0.54
1:1:320:LYS:HE2	1:1:333:ASN:OD1	2.08	0.54
1:6:562:GLU:HA	1:7:388:ARG:HH12	1.72	0.54
1:8:228[B]:HIS:CD2	1:8:241:THR:HG21	2.40	0.54
1:B:320:LYS:HE2	1:B:333:ASN:OD1	2.08	0.54
1:E:435:PRO:O	1:E:465:PRO:HG3	2.06	0.54
1:M:406:ASN:HD21	1:c:223:SER:H	1.54	0.54
1:U:223:SER:H	1:e:406:ASN:HD21	1.55	0.54
1:V:403:ARG:H	1:V:406:ASN:HD22	1.54	0.54
1:W:320:LYS:HE2	1:W:333:ASN:OD1	2.08	0.54
1:Y:224:SER:HG	1:Y:316:ASN:H	1.55	0.54
1:Z:320:LYS:HE2	1:Z:333:ASN:OD1	2.08	0.54
1:d:320:LYS:HE2	1:d:333:ASN:OD1	2.08	0.54
1:e:223:SER:H	1:h:406:ASN:HD21	1.54	0.54
1:n:320:LYS:HE2	1:n:333:ASN:OD1	2.08	0.54
1:w:448:GLN:NE2	1:w:454:GLN:HB3	2.19	0.54
1:2:403:ARG:H	1:2:406:ASN:HD22	1.54	0.54
1:3:228[B]:HIS:CD2	1:3:241:THR:HG21	2.40	0.54
1:5:254:HIS:CD2	1:5:650:PRO:HG3	2.42	0.54
1:6:320:LYS:HE2	1:6:333:ASN:OD1	2.08	0.54
1:8:403:ARG:H	1:8:406:ASN:HD22	1.55	0.54
1:A:320:LYS:HE2	1:A:333:ASN:OD1	2.08	0.54
1:G:562:GLU:HA	1:I:388:ARG:HH12	1.73	0.54
1:I:228[B]:HIS:CD2	1:I:241:THR:HG21	2.40	0.54
1:L:254:HIS:CD2	1:L:650:PRO:HG3	2.42	0.54
1:R:562:GLU:HA	1:S:388:ARG:HH12	1.73	0.54
1:W:448:GLN:NE2	1:W:454:GLN:HB3	2.19	0.54
1:W:562:GLU:HA	1:Y:388:ARG:HH12	1.72	0.54
1:Z:228[B]:HIS:CD2	1:Z:241:THR:HG21	2.40	0.54
1:b:403:ARG:H	1:b:406:ASN:HD22	1.54	0.54
1:f:403:ARG:H	1:f:406:ASN:HD22	1.54	0.54
1:f:406:ASN:HD21	1:z:223:SER:H	1.55	0.54
1:k:254:HIS:CD2	1:k:650:PRO:HG3	2.42	0.54
1:n:406:ASN:HD21	1:r:223:SER:H	1.54	0.54
1:q:562:GLU:HA	1:r:388:ARG:HH12	1.73	0.54
1:r:274:TYR:OH	1:x:711:THR:HG21	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:562:GLU:HA	1:u:388:ARG:HH12	1.73	0.54
1:w:435:PRO:O	1:w:465:PRO:HG3	2.06	0.54
1:7:254:HIS:CD2	1:7:650:PRO:HG3	2.42	0.54
1:7:320:LYS:HE2	1:7:333:ASN:OD1	2.08	0.54
1:8:320:LYS:HE2	1:8:333:ASN:OD1	2.08	0.54
1:B:403:ARG:H	1:B:406:ASN:HD22	1.55	0.54
1:D:254:HIS:CD2	1:D:650:PRO:HG3	2.42	0.54
1:L:223:SER:H	1:b:406:ASN:HD21	1.55	0.54
1:N:223:SER:H	1:m:406:ASN:HD21	1.54	0.54
1:O:562:GLU:HA	1:m:388:ARG:HH12	1.73	0.54
1:R:320:LYS:HE2	1:R:333:ASN:OD1	2.08	0.54
1:T:388:ARG:HH12	1:l:562:GLU:HA	1.73	0.54
1:T:406:ASN:HD21	1:i:223:SER:H	1.54	0.54
1:U:254:HIS:CD2	1:U:650:PRO:HG3	2.42	0.54
1:Y:254:HIS:CD2	1:Y:650:PRO:HG3	2.42	0.54
1:a:228[B]:HIS:CD2	1:a:241:THR:HG21	2.40	0.54
1:m:320:LYS:HE2	1:m:333:ASN:OD1	2.08	0.54
1:m:711:THR:HG21	1:s:274:TYR:OH	2.07	0.54
1:q:320:LYS:HE2	1:q:333:ASN:OD1	2.08	0.54
1:v:320:LYS:HE2	1:v:333:ASN:OD1	2.08	0.54
1:A:406:ASN:HD21	1:B:223:SER:H	1.54	0.54
1:F:388:ARG:HH12	1:Q:562:GLU:HA	1.73	0.54
1:H:406:ASN:HD21	1:Z:223:SER:H	1.54	0.54
1:J:403:ARG:H	1:J:406:ASN:HD22	1.54	0.54
1:K:448:GLN:NE2	1:K:454:GLN:HB3	2.19	0.54
1:L:403:ARG:H	1:L:406:ASN:HD22	1.55	0.54
1:Q:711:THR:HG21	1:S:274:TYR:OH	2.07	0.54
1:S:223:SER:H	1:d:406:ASN:HD21	1.54	0.54
1:S:320:LYS:HE2	1:S:333:ASN:OD1	2.08	0.54
1:T:320:LYS:HE2	1:T:333:ASN:OD1	2.08	0.54
1:V:388:ARG:HH12	1:X:562:GLU:HA	1.73	0.54
1:X:711:THR:HG21	1:Y:274:TYR:OH	2.08	0.54
1:e:254:HIS:CD2	1:e:650:PRO:HG3	2.42	0.54
1:h:711:THR:HG21	1:i:274:TYR:OH	2.08	0.54
1:j:320:LYS:HE2	1:j:333:ASN:OD1	2.08	0.54
1:j:435:PRO:O	1:j:465:PRO:HG3	2.06	0.54
1:p:403:ARG:H	1:p:406:ASN:HD22	1.55	0.54
1:s:254:HIS:CD2	1:s:650:PRO:HG3	2.42	0.54
1:1:403:ARG:H	1:1:406:ASN:HD22	1.55	0.54
1:5:406:ASN:HD21	1:8:223:SER:H	1.54	0.54
1:E:254:HIS:CD2	1:E:650:PRO:HG3	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:448:GLN:NE2	1:E:454:GLN:HB3	2.19	0.53
1:J:320:LYS:HE2	1:J:333:ASN:OD1	2.08	0.53
1:P:320:LYS:HE2	1:P:333:ASN:OD1	2.08	0.53
1:T:711:THR:HG21	1:U:274:TYR:OH	2.07	0.53
1:b:711:THR:HG21	1:o:274:TYR:OH	2.07	0.53
1:g:448:GLN:NE2	1:g:454:GLN:HB3	2.19	0.53
1:i:388:ARG:HH12	1:k:562:GLU:HA	1.72	0.53
1:o:562:GLU:HA	1:p:388:ARG:HH12	1.73	0.53
1:p:320:LYS:HE2	1:p:333:ASN:OD1	2.08	0.53
1:r:228[B]:HIS:CD2	1:r:241:THR:HG21	2.40	0.53
1:r:320:LYS:HE2	1:r:333:ASN:OD1	2.08	0.53
1:u:228[B]:HIS:CD2	1:u:241:THR:HG21	2.40	0.53
1:x:562:GLU:HA	1:y:388:ARG:HH12	1.73	0.53
1:z:403:ARG:H	1:z:406:ASN:HD22	1.54	0.53
1:C:271:TYR:HA	1:C:380:ASN:ND2	2.24	0.53
1:C:388:ARG:HH12	1:M:562:GLU:HA	1.73	0.53
1:C:562:GLU:HA	1:b:388:ARG:HH12	1.73	0.53
1:F:320:LYS:HE2	1:F:333:ASN:OD1	2.08	0.53
1:J:271:TYR:HA	1:J:380:ASN:ND2	2.24	0.53
1:K:562:GLU:HA	1:a:388:ARG:HH12	1.73	0.53
1:N:320:LYS:HE2	1:N:333:ASN:OD1	2.08	0.53
1:P:435:PRO:O	1:P:465:PRO:HG3	2.06	0.53
1:V:320:LYS:HE2	1:V:333:ASN:OD1	2.08	0.53
1:V:562:GLU:HA	1:e:388:ARG:HH12	1.73	0.53
1:W:224:SER:HG	1:W:316:ASN:H	1.56	0.53
1:W:271:TYR:HA	1:W:380:ASN:ND2	2.24	0.53
1:Z:388:ARG:HH12	1:3:562:GLU:HA	1.73	0.53
1:a:562:GLU:HA	1:8:388:ARG:HH12	1.73	0.53
1:c:254:HIS:CD2	1:c:650:PRO:HG3	2.42	0.53
1:f:388:ARG:HH12	1:g:562:GLU:HA	1.73	0.53
1:g:271:TYR:HA	1:g:380:ASN:ND2	2.24	0.53
1:i:320:LYS:HE2	1:i:333:ASN:OD1	2.08	0.53
1:i:448:GLN:NE2	1:i:454:GLN:HB3	2.19	0.53
1:p:271:TYR:HA	1:p:380:ASN:ND2	2.24	0.53
1:v:406:ASN:HD21	1:1:223:SER:H	1.54	0.53
1:w:254:HIS:CD2	1:w:650:PRO:HG3	2.42	0.53
1:w:388:ARG:HH12	1:y:562:GLU:HA	1.73	0.53
1:z:562:GLU:HA	1:1:388:ARG:HH12	1.73	0.53
1:1:562:GLU:HA	1:2:388:ARG:HH12	1.73	0.53
1:2:320:LYS:HE2	1:2:333:ASN:OD1	2.08	0.53
1:3:320:LYS:HE2	1:3:333:ASN:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:271:TYR:HA	1:B:380:ASN:ND2	2.24	0.53
1:B:562:GLU:HA	1:J:388:ARG:HH12	1.73	0.53
1:C:578:SER:O	1:b:482:ARG:HD3	2.09	0.53
1:D:271:TYR:HA	1:D:380:ASN:ND2	2.24	0.53
1:D:562:GLU:HA	1:N:388:ARG:HH12	1.72	0.53
1:E:388:ARG:HH12	1:F:562:GLU:HA	1.73	0.53
1:H:228[B]:HIS:CD2	1:H:241:THR:HG21	2.40	0.53
1:K:271:TYR:HA	1:K:380:ASN:ND2	2.24	0.53
1:M:482:ARG:HD3	1:b:578:SER:O	2.09	0.53
1:P:223:SER:H	1:Q:406:ASN:HD21	1.54	0.53
1:V:271:TYR:HA	1:V:380:ASN:ND2	2.24	0.53
1:a:320:LYS:HE2	1:a:333:ASN:OD1	2.08	0.53
1:c:388:ARG:HH12	1:p:562:GLU:HA	1.73	0.53
1:c:562:GLU:HA	1:o:388:ARG:HH12	1.73	0.53
1:d:228[B]:HIS:CD2	1:d:241:THR:HG21	2.40	0.53
1:f:320:LYS:HE2	1:f:333:ASN:OD1	2.08	0.53
1:f:482:ARG:HD3	1:g:578:SER:O	2.09	0.53
1:n:228[B]:HIS:CD2	1:n:241:THR:HG21	2.40	0.53
1:y:320:LYS:HE2	1:y:333:ASN:OD1	2.08	0.53
1:1:271:TYR:HA	1:1:380:ASN:ND2	2.24	0.53
1:2:271:TYR:HA	1:2:380:ASN:ND2	2.24	0.53
1:3:388:ARG:HH12	1:4:562:GLU:HA	1.73	0.53
1:4:448:GLN:NE2	1:4:454:GLN:HB3	2.19	0.53
1:6:271:TYR:HA	1:6:380:ASN:ND2	2.24	0.53
1:B:388:ARG:HH12	1:L:562:GLU:HA	1.73	0.53
1:C:448:GLN:NE2	1:C:454:GLN:HB3	2.19	0.53
1:E:482:ARG:HD3	1:F:578:SER:O	2.09	0.53
1:G:271:TYR:HA	1:G:380:ASN:ND2	2.24	0.53
1:H:320:LYS:HE2	1:H:333:ASN:OD1	2.08	0.53
1:P:271:TYR:HA	1:P:380:ASN:ND2	2.24	0.53
1:R:406:ASN:HD21	1:V:223:SER:H	1.54	0.53
1:S:578:SER:O	1:U:482:ARG:HD3	2.09	0.53
1:a:578:SER:O	1:8:482:ARG:HD3	2.09	0.53
1:d:271:TYR:HA	1:d:380:ASN:ND2	2.24	0.53
1:j:223:SER:H	1:x:406:ASN:HD21	1.54	0.53
1:k:271:TYR:HA	1:k:380:ASN:ND2	2.24	0.53
1:l:271:TYR:HA	1:l:380:ASN:ND2	2.24	0.53
1:n:271:TYR:HA	1:n:380:ASN:ND2	2.24	0.53
1:r:578:SER:O	1:s:482:ARG:HD3	2.09	0.53
1:t:223:SER:H	1:6:406:ASN:HD21	1.54	0.53
1:t:271:TYR:HA	1:t:380:ASN:ND2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:482:ARG:HD3	1:y:578:SER:O	2.09	0.53
1:4:271:TYR:HA	1:4:380:ASN:ND2	2.24	0.53
1:A:578:SER:O	1:G:482:ARG:HD3	2.09	0.53
1:F:482:ARG:HD3	1:Q:578:SER:O	2.09	0.53
1:L:320:LYS:HE2	1:L:333:ASN:OD1	2.08	0.53
1:N:448:GLN:NE2	1:N:454:GLN:HB3	2.19	0.53
1:O:271:TYR:HA	1:O:380:ASN:ND2	2.24	0.53
1:S:271:TYR:HA	1:S:380:ASN:ND2	2.24	0.53
1:X:271:TYR:HA	1:X:380:ASN:ND2	2.24	0.53
1:Z:482:ARG:HD3	1:3:578:SER:O	2.09	0.53
1:b:320:LYS:HE2	1:b:333:ASN:OD1	2.08	0.53
1:o:320:LYS:HE2	1:o:333:ASN:OD1	2.08	0.53
1:t:482:ARG:HD3	1:v:578:SER:O	2.09	0.53
1:u:448:GLN:NE2	1:u:454:GLN:HB3	2.19	0.53
1:z:320:LYS:HE2	1:z:333:ASN:OD1	2.08	0.53
1:G:223:SER:H	1:W:406:ASN:HD21	1.54	0.53
1:J:534:MET:HG2	1:J:535:HIS:CD2	2.44	0.53
1:Q:320:LYS:HE2	1:Q:333:ASN:OD1	2.08	0.53
1:U:534:MET:HG2	1:U:535:HIS:CD2	2.44	0.53
1:X:274:TYR:OH	1:f:711:THR:HG21	2.07	0.53
1:X:320:LYS:HE2	1:X:333:ASN:OD1	2.08	0.53
1:c:320:LYS:HE2	1:c:333:ASN:OD1	2.08	0.53
1:e:320:LYS:HE2	1:e:333:ASN:OD1	2.08	0.53
1:g:388:ARG:HH12	1:h:562:GLU:HA	1.73	0.53
1:j:271:TYR:HA	1:j:380:ASN:ND2	2.24	0.53
1:o:271:TYR:HA	1:o:380:ASN:ND2	2.24	0.53
1:o:578:SER:O	1:p:482:ARG:HD3	2.09	0.53
1:p:223:SER:H	1:q:406:ASN:HD21	1.54	0.53
1:r:271:TYR:HA	1:r:380:ASN:ND2	2.24	0.53
1:s:534:MET:HG2	1:s:535:HIS:CD2	2.44	0.53
1:t:320:LYS:HE2	1:t:333:ASN:OD1	2.08	0.53
1:u:534:MET:HG2	1:u:535:HIS:CD2	2.44	0.53
1:x:578:SER:O	1:y:482:ARG:HD3	2.09	0.53
1:2:534:MET:HG2	1:2:535:HIS:CD2	2.44	0.53
1:5:228[B]:HIS:CD2	1:5:241:THR:HG21	2.40	0.53
1:5:320:LYS:HE2	1:5:333:ASN:OD1	2.08	0.53
1:A:228[B]:HIS:CD2	1:A:241:THR:HG21	2.40	0.53
1:B:448:GLN:NE2	1:B:454:GLN:HB3	2.20	0.53
1:B:578:SER:O	1:J:482:ARG:HD3	2.09	0.53
1:C:534:MET:HG2	1:C:535:HIS:CD2	2.44	0.53
1:E:534:MET:HG2	1:E:535:HIS:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:271:TYR:HA	1:H:380:ASN:ND2	2.24	0.53
1:I:534:MET:HG2	1:I:535:HIS:CD2	2.44	0.53
1:M:271:TYR:HA	1:M:380:ASN:ND2	2.24	0.53
1:M:353:LEU:CD2	1:M:643:GLN:HG2	2.39	0.53
1:V:357:HIS:HA	1:X:439:GLN:HA	1.89	0.53
1:W:353:LEU:CD2	1:W:643:GLN:HG2	2.39	0.53
1:c:357:HIS:HA	1:p:439:GLN:HA	1.91	0.53
1:d:562:GLU:HA	1:l:388:ARG:HH12	1.73	0.53
1:g:534:MET:HG2	1:g:535:HIS:CD2	2.44	0.53
1:n:534:MET:HG2	1:n:535:HIS:CD2	2.44	0.53
1:w:534:MET:HG2	1:w:535:HIS:CD2	2.44	0.53
1:x:320:LYS:HE2	1:x:333:ASN:OD1	2.08	0.53
1:z:534:MET:HG2	1:z:535:HIS:CD2	2.44	0.53
1:1:448:GLN:NE2	1:1:454:GLN:HB3	2.20	0.53
1:5:271:TYR:HA	1:5:380:ASN:ND2	2.24	0.53
1:6:353:LEU:CD2	1:6:643:GLN:HG2	2.39	0.53
1:G:320:LYS:HE2	1:G:333:ASN:OD1	2.08	0.53
1:G:353:LEU:CD2	1:G:643:GLN:HG2	2.39	0.53
1:I:448:GLN:NE2	1:I:454:GLN:HB3	2.20	0.53
1:L:534:MET:HG2	1:L:535:HIS:CD2	2.44	0.53
1:O:578:SER:O	1:m:482:ARG:HD3	2.09	0.53
1:Q:271:TYR:HA	1:Q:380:ASN:ND2	2.24	0.53
1:Q:353:LEU:CD2	1:Q:643:GLN:HG2	2.39	0.53
1:T:482:ARG:HD3	1:l:578:SER:O	2.09	0.53
1:V:439:GLN:HA	1:e:357:HIS:HA	1.91	0.53
1:a:271:TYR:HA	1:a:380:ASN:ND2	2.24	0.53
1:d:534:MET:HG2	1:d:535:HIS:CD2	2.44	0.53
1:e:271:TYR:HA	1:e:380:ASN:ND2	2.24	0.53
1:h:271:TYR:HA	1:h:380:ASN:ND2	2.24	0.53
1:h:353:LEU:CD2	1:h:643:GLN:HG2	2.39	0.53
1:h:534:MET:HG2	1:h:535:HIS:CD2	2.44	0.53
1:t:353:LEU:CD2	1:t:643:GLN:HG2	2.39	0.53
1:x:271:TYR:HA	1:x:380:ASN:ND2	2.24	0.53
1:1:353:LEU:CD2	1:1:643:GLN:HG2	2.39	0.53
1:1:578:SER:O	1:2:482:ARG:HD3	2.09	0.53
1:3:534:MET:HG2	1:3:535:HIS:CD2	2.44	0.53
1:5:562:GLU:HA	1:6:388:ARG:HH12	1.72	0.53
1:7:534:MET:HG2	1:7:535:HIS:CD2	2.44	0.53
1:B:353:LEU:CD2	1:B:643:GLN:HG2	2.39	0.53
1:D:534:MET:HG2	1:D:535:HIS:CD2	2.44	0.53
1:F:534:MET:HG2	1:F:535:HIS:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:353:LEU:CD2	1:H:643:GLN:HG2	2.39	0.53
1:K:320:LYS:HE2	1:K:333:ASN:OD1	2.08	0.53
1:K:482:ARG:HD3	1:8:578:SER:O	2.09	0.53
1:M:534:MET:HG2	1:M:535:HIS:CD2	2.44	0.53
1:O:388:ARG:HH12	1:n:562:GLU:HA	1.73	0.53
1:O:534:MET:HG2	1:O:535:HIS:CD2	2.44	0.53
1:P:534:MET:HG2	1:P:535:HIS:CD2	2.44	0.53
1:R:271:TYR:HA	1:R:380:ASN:ND2	2.24	0.53
1:R:353:LEU:CD2	1:R:643:GLN:HG2	2.39	0.53
1:S:562:GLU:HA	1:U:388:ARG:HH12	1.73	0.53
1:U:320:LYS:HE2	1:U:333:ASN:OD1	2.08	0.53
1:V:353:LEU:CD2	1:V:643:GLN:HG2	2.39	0.53
1:Y:534:MET:HG2	1:Y:535:HIS:CD2	2.44	0.53
1:Z:578:SER:O	1:4:482:ARG:HD3	2.09	0.53
1:a:534:MET:HG2	1:a:535:HIS:CD2	2.44	0.53
1:c:271:TYR:HA	1:c:380:ASN:ND2	2.24	0.53
1:j:534:MET:HG2	1:j:535:HIS:CD2	2.44	0.53
1:p:353:LEU:CD2	1:p:643:GLN:HG2	2.39	0.53
1:q:271:TYR:HA	1:q:380:ASN:ND2	2.24	0.53
1:q:353:LEU:CD2	1:q:643:GLN:HG2	2.39	0.53
1:v:228[B]:HIS:CD2	1:v:241:THR:HG21	2.40	0.53
1:x:439:GLN:HA	1:y:357:HIS:HA	1.91	0.53
1:3:271:TYR:HA	1:3:380:ASN:ND2	2.24	0.53
1:3:353:LEU:CD2	1:3:643:GLN:HG2	2.39	0.53
1:4:320:LYS:HE2	1:4:333:ASN:OD1	2.08	0.53
1:5:353:LEU:CD2	1:5:643:GLN:HG2	2.39	0.53
1:F:357:HIS:HA	1:Q:439:GLN:HA	1.91	0.53
1:R:228[B]:HIS:CD2	1:R:241:THR:HG21	2.40	0.53
1:R:534:MET:HG2	1:R:535:HIS:CD2	2.44	0.53
1:a:353:LEU:CD2	1:a:643:GLN:HG2	2.39	0.53
1:b:228[B]:HIS:CD2	1:b:241:THR:HG21	2.40	0.53
1:d:353:LEU:CD2	1:d:643:GLN:HG2	2.39	0.53
1:k:534:MET:HG2	1:k:535:HIS:CD2	2.44	0.53
1:l:534:MET:HG2	1:l:535:HIS:CD2	2.44	0.53
1:n:353:LEU:CD2	1:n:643:GLN:HG2	2.39	0.53
1:q:228[B]:HIS:CD2	1:q:241:THR:HG21	2.40	0.53
1:q:534:MET:HG2	1:q:535:HIS:CD2	2.44	0.53
1:r:403:ARG:H	1:r:406:ASN:HD22	1.54	0.53
1:w:353:LEU:CD2	1:w:643:GLN:HG2	2.39	0.53
1:x:353:LEU:CD2	1:x:643:GLN:HG2	2.39	0.53
1:y:534:MET:HG2	1:y:535:HIS:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:388:ARG:HH12	1:2:562:GLU:HA	1.73	0.53
1:z:482:ARG:HD3	1:2:578:SER:O	2.09	0.53
1:7:271:TYR:HA	1:7:380:ASN:ND2	2.24	0.53
1:A:271:TYR:HA	1:A:380:ASN:ND2	2.24	0.52
1:A:353:LEU:CD2	1:A:643:GLN:HG2	2.39	0.52
1:B:482:ARG:HD3	1:L:578:SER:O	2.09	0.52
1:E:228[B]:HIS:CD2	1:E:241:THR:HG21	2.40	0.52
1:F:353:LEU:CD2	1:F:643:GLN:HG2	2.39	0.52
1:H:562:GLU:HA	1:W:388:ARG:HH12	1.72	0.52
1:T:228[B]:HIS:CD2	1:T:241:THR:HG21	2.40	0.52
1:W:534:MET:HG2	1:W:535:HIS:CD2	2.44	0.52
1:X:353:LEU:CD2	1:X:643:GLN:HG2	2.39	0.52
1:Y:271:TYR:HA	1:Y:380:ASN:ND2	2.24	0.52
1:b:534:MET:HG2	1:b:535:HIS:CD2	2.44	0.52
1:b:643:GLN:HB3	1:b:645:MET:HE2	1.92	0.52
1:c:534:MET:HG2	1:c:535:HIS:CD2	2.44	0.52
1:f:228[B]:HIS:CD2	1:f:241:THR:HG21	2.40	0.52
1:f:534:MET:HG2	1:f:535:HIS:CD2	2.44	0.52
1:f:562:GLU:HA	1:h:388:ARG:HH12	1.72	0.52
1:f:578:SER:O	1:h:482:ARG:HD3	2.09	0.52
1:f:643:GLN:HB3	1:f:645:MET:HE2	1.92	0.52
1:g:482:ARG:HD3	1:h:578:SER:O	2.09	0.52
1:m:562:GLU:HA	1:n:388:ARG:HH12	1.73	0.52
1:o:353:LEU:CD2	1:o:643:GLN:HG2	2.39	0.52
1:q:578:SER:O	1:r:482:ARG:HD3	2.09	0.52
1:r:562:GLU:HA	1:s:388:ARG:HH12	1.73	0.52
1:s:320:LYS:HE2	1:s:333:ASN:OD1	2.08	0.52
1:w:228[B]:HIS:CD2	1:w:241:THR:HG21	2.40	0.52
1:y:353:LEU:CD2	1:y:643:GLN:HG2	2.39	0.52
1:2:353:LEU:CD2	1:2:643:GLN:HG2	2.39	0.52
1:5:357:HIS:HA	1:7:439:GLN:HA	1.91	0.52
1:6:534:MET:HG2	1:6:535:HIS:CD2	2.44	0.52
1:A:534:MET:HG2	1:A:535:HIS:CD2	2.44	0.52
1:C:353:LEU:CD2	1:C:643:GLN:HG2	2.39	0.52
1:E:271:TYR:HA	1:E:380:ASN:ND2	2.24	0.52
1:E:353:LEU:CD2	1:E:643:GLN:HG2	2.39	0.52
1:E:578:SER:O	1:Q:482:ARG:HD3	2.09	0.52
1:H:357:HIS:HA	1:Y:439:GLN:HA	1.91	0.52
1:H:578:SER:O	1:W:482:ARG:HD3	2.10	0.52
1:I:353:LEU:CD2	1:I:643:GLN:HG2	2.39	0.52
1:J:353:LEU:CD2	1:J:643:GLN:HG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:578:SER:O	1:L:482:ARG:HD3	2.09	0.52
1:O:353:LEU:CD2	1:O:643:GLN:HG2	2.39	0.52
1:Q:643:GLN:HB3	1:Q:645:MET:HE2	1.92	0.52
1:R:578:SER:O	1:S:482:ARG:HD3	2.09	0.52
1:S:403:ARG:H	1:S:406:ASN:HD22	1.54	0.52
1:T:562:GLU:HA	1:d:388:ARG:HH12	1.73	0.52
1:V:578:SER:O	1:e:482:ARG:HD3	2.09	0.52
1:Z:271:TYR:HA	1:Z:380:ASN:ND2	2.24	0.52
1:c:643:GLN:HB3	1:c:645:MET:HE2	1.92	0.52
1:e:534:MET:HG2	1:e:535:HIS:CD2	2.44	0.52
1:e:643:GLN:HB3	1:e:645:MET:HE2	1.92	0.52
1:f:357:HIS:HA	1:g:439:GLN:HA	1.91	0.52
1:m:578:SER:O	1:n:482:ARG:HD3	2.09	0.52
1:u:353:LEU:CD2	1:u:643:GLN:HG2	2.39	0.52
1:v:271:TYR:HA	1:v:380:ASN:ND2	2.24	0.52
1:v:353:LEU:CD2	1:v:643:GLN:HG2	2.39	0.52
1:w:271:TYR:HA	1:w:380:ASN:ND2	2.24	0.52
1:z:353:LEU:CD2	1:z:643:GLN:HG2	2.39	0.52
1:z:578:SER:O	1:1:482:ARG:HD3	2.09	0.52
1:4:353:LEU:CD2	1:4:643:GLN:HG2	2.39	0.52
1:5:578:SER:O	1:6:482:ARG:HD3	2.10	0.52
1:A:439:GLN:HA	1:G:357:HIS:HA	1.92	0.52
1:C:482:ARG:HD3	1:M:578:SER:O	2.10	0.52
1:F:228[B]:HIS:CD2	1:F:241:THR:HG21	2.40	0.52
1:K:353:LEU:CD2	1:K:643:GLN:HG2	2.39	0.52
1:L:353:LEU:CD2	1:L:643:GLN:HG2	2.39	0.52
1:N:439:GLN:HA	1:P:357:HIS:HA	1.91	0.52
1:P:228[B]:HIS:CD2	1:P:241:THR:HG21	2.40	0.52
1:b:353:LEU:CD2	1:b:643:GLN:HG2	2.39	0.52
1:c:482:ARG:HD3	1:p:578:SER:O	2.09	0.52
1:f:353:LEU:CD2	1:f:643:GLN:HG2	2.39	0.52
1:g:353:LEU:CD2	1:g:643:GLN:HG2	2.39	0.52
1:j:643:GLN:HB3	1:j:645:MET:HE2	1.91	0.52
1:l:353:LEU:CD2	1:l:643:GLN:HG2	2.39	0.52
1:s:353:LEU:CD2	1:s:643:GLN:HG2	2.39	0.52
1:t:388:ARG:HH12	1:v:562:GLU:HA	1.73	0.52
1:x:643:GLN:HB3	1:x:645:MET:HE2	1.92	0.52
1:8:271:TYR:HA	1:8:380:ASN:ND2	2.24	0.52
1:C:439:GLN:HA	1:b:357:HIS:HA	1.91	0.52
1:J:562:GLU:HA	1:L:388:ARG:HH12	1.73	0.52
1:L:271:TYR:HA	1:L:380:ASN:ND2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:643:GLN:HB3	1:P:645:MET:HE2	1.92	0.52
1:T:353:LEU:CD2	1:T:643:GLN:HG2	2.39	0.52
1:T:578:SER:O	1:d:482:ARG:HD3	2.09	0.52
1:U:353:LEU:CD2	1:U:643:GLN:HG2	2.39	0.52
1:Y:353:LEU:CD2	1:Y:643:GLN:HG2	2.39	0.52
1:Y:643:GLN:HB3	1:Y:645:MET:HE2	1.92	0.52
1:i:439:GLN:HA	1:j:357:HIS:HA	1.91	0.52
1:m:228[B]:HIS:CD2	1:m:241:THR:HG21	2.40	0.52
1:o:643:GLN:HB3	1:o:645:MET:HE2	1.92	0.52
1:v:534:MET:HG2	1:v:535:HIS:CD2	2.44	0.52
1:w:578:SER:O	1:x:482:ARG:HD3	2.10	0.52
1:y:228[B]:HIS:CD2	1:y:241:THR:HG21	2.40	0.52
1:2:643:GLN:HB3	1:2:645:MET:HE2	1.92	0.52
1:7:353:LEU:CD2	1:7:643:GLN:HG2	2.39	0.52
1:7:643:GLN:HB3	1:7:645:MET:HE2	1.92	0.52
1:A:482:ARG:HD3	1:I:578:SER:O	2.09	0.52
1:G:643:GLN:HB3	1:G:645:MET:HE2	1.92	0.52
1:H:534:MET:HG2	1:H:535:HIS:CD2	2.44	0.52
1:J:643:GLN:HB3	1:J:645:MET:HE2	1.92	0.52
1:K:643:GLN:HB3	1:K:645:MET:HE2	1.92	0.52
1:N:271:TYR:HA	1:N:380:ASN:ND2	2.24	0.52
1:O:482:ARG:HD3	1:n:578:SER:O	2.09	0.52
1:X:643:GLN:HB3	1:X:645:MET:HE2	1.92	0.52
1:Z:562:GLU:HA	1:4:388:ARG:HH12	1.73	0.52
1:a:643:GLN:HB3	1:a:645:MET:HE2	1.92	0.52
1:b:271:TYR:HA	1:b:380:ASN:ND2	2.24	0.52
1:f:271:TYR:HA	1:f:380:ASN:ND2	2.24	0.52
1:f:605:GLN:HE21	1:h:622:THR:HG22	1.75	0.52
1:i:271:TYR:HA	1:i:380:ASN:ND2	2.24	0.52
1:i:578:SER:O	1:j:482:ARG:HD3	2.10	0.52
1:j:228[B]:HIS:CD2	1:j:241:THR:HG21	2.40	0.52
1:m:439:GLN:HA	1:n:357:HIS:HA	1.92	0.52
1:o:534:MET:HG2	1:o:535:HIS:CD2	2.44	0.52
1:t:357:HIS:HA	1:v:439:GLN:HA	1.92	0.52
1:u:271:TYR:HA	1:u:380:ASN:ND2	2.24	0.52
1:y:271:TYR:HA	1:y:380:ASN:ND2	2.24	0.52
1:z:271:TYR:HA	1:z:380:ASN:ND2	2.24	0.52
1:3:482:ARG:HD3	1:4:578:SER:O	2.09	0.52
1:4:643:GLN:HB3	1:4:645:MET:HE2	1.92	0.52
1:5:534:MET:HG2	1:5:535:HIS:CD2	2.44	0.52
1:6:643:GLN:HB3	1:6:645:MET:HE2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:534:MET:HG2	1:8:535:HIS:CD2	2.44	0.52
1:E:562:GLU:HA	1:Q:388:ARG:HH12	1.73	0.52
1:F:271:TYR:HA	1:F:380:ASN:ND2	2.24	0.52
1:G:534:MET:HG2	1:G:535:HIS:CD2	2.44	0.52
1:K:578:SER:O	1:a:482:ARG:HD3	2.09	0.52
1:N:578:SER:O	1:P:482:ARG:HD3	2.10	0.52
1:O:357:HIS:HA	1:n:439:GLN:HA	1.92	0.52
1:Q:534:MET:HG2	1:Q:535:HIS:CD2	2.44	0.52
1:S:439:GLN:HA	1:U:357:HIS:HA	1.92	0.52
1:T:439:GLN:HA	1:d:357:HIS:HA	1.92	0.52
1:W:643:GLN:HB3	1:W:645:MET:HE2	1.92	0.52
1:X:534:MET:HG2	1:X:535:HIS:CD2	2.44	0.52
1:d:439:GLN:HA	1:l:357:HIS:HA	1.92	0.52
1:d:578:SER:O	1:l:482:ARG:HD3	2.09	0.52
1:g:228[B]:HIS:CD2	1:g:241:THR:HG21	2.40	0.52
1:i:482:ARG:HD3	1:k:578:SER:O	2.10	0.52
1:l:643:GLN:HB3	1:l:645:MET:HE2	1.92	0.52
1:m:353:LEU:CD2	1:m:643:GLN:HG2	2.39	0.52
1:r:439:GLN:HA	1:s:357:HIS:HA	1.92	0.52
1:s:271:TYR:HA	1:s:380:ASN:ND2	2.24	0.52
1:u:439:GLN:HA	1:v:357:HIS:HA	1.91	0.52
1:u:578:SER:O	1:v:482:ARG:HD3	2.09	0.52
1:x:534:MET:HG2	1:x:535:HIS:CD2	2.44	0.52
1:y:448:GLN:NE2	1:y:454:GLN:HB3	2.19	0.52
1:3:643:GLN:HB3	1:3:645:MET:HE2	1.92	0.52
1:C:643:GLN:HB3	1:C:645:MET:HE2	1.92	0.52
1:I:271:TYR:HA	1:I:380:ASN:ND2	2.24	0.52
1:K:388:ARG:HH12	1:8:562:GLU:HA	1.73	0.52
1:K:534:MET:HG2	1:K:535:HIS:CD2	2.44	0.52
1:N:228[B]:HIS:CD2	1:N:241:THR:HG21	2.40	0.52
1:O:643:GLN:HB3	1:O:645:MET:HE2	1.92	0.52
1:P:353:LEU:CD2	1:P:643:GLN:HG2	2.39	0.52
1:R:482:ARG:HD3	1:U:578:SER:O	2.09	0.52
1:T:271:TYR:HA	1:T:380:ASN:ND2	2.24	0.52
1:U:271:TYR:HA	1:U:380:ASN:ND2	2.24	0.52
1:Z:534:MET:HG2	1:Z:535:HIS:CD2	2.44	0.52
1:r:534:MET:HG2	1:r:535:HIS:CD2	2.44	0.52
1:t:534:MET:HG2	1:t:535:HIS:CD2	2.44	0.52
1:u:562:GLU:HA	1:v:388:ARG:HH12	1.73	0.52
1:1:643:GLN:HB3	1:1:645:MET:HE2	1.92	0.52
1:3:357:HIS:HA	1:4:439:GLN:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:534:MET:HG2	1:4:535:HIS:CD2	2.44	0.52
1:6:439:GLN:HA	1:7:357:HIS:HA	1.91	0.52
1:8:353:LEU:CD2	1:8:643:GLN:HG2	2.39	0.52
1:A:357:HIS:HA	1:I:439:GLN:HA	1.92	0.52
1:B:643:GLN:HB3	1:B:645:MET:HE2	1.92	0.52
1:C:228[B]:HIS:CD2	1:C:241:THR:HG21	2.40	0.52
1:K:439:GLN:HA	1:a:357:HIS:HA	1.92	0.52
1:S:353:LEU:CD2	1:S:643:GLN:HG2	2.39	0.52
1:S:534:MET:HG2	1:S:535:HIS:CD2	2.44	0.52
1:W:439:GLN:HA	1:Y:357:HIS:HA	1.91	0.52
1:Z:353:LEU:CD2	1:Z:643:GLN:HG2	2.39	0.52
1:g:643:GLN:HB3	1:g:645:MET:HE2	1.92	0.52
1:q:482:ARG:HD3	1:s:578:SER:O	2.09	0.52
1:r:353:LEU:CD2	1:r:643:GLN:HG2	2.39	0.52
1:t:643:GLN:HB3	1:t:645:MET:HE2	1.92	0.52
1:w:562:GLU:HA	1:x:388:ARG:HH12	1.73	0.52
1:5:643:GLN:HB3	1:5:645:MET:HE2	1.92	0.52
1:8:643:GLN:HB3	1:8:645:MET:HE2	1.92	0.52
1:B:534:MET:HG2	1:B:535:HIS:CD2	2.44	0.52
1:D:357:HIS:HA	1:P:439:GLN:HA	1.92	0.52
1:D:439:GLN:HA	1:N:357:HIS:HA	1.91	0.52
1:E:357:HIS:HA	1:F:439:GLN:HA	1.92	0.52
1:F:448:GLN:NE2	1:F:454:GLN:HB3	2.19	0.52
1:M:388:ARG:HH12	1:b:562:GLU:HA	1.73	0.52
1:W:578:SER:O	1:Y:482:ARG:HD3	2.10	0.52
1:Y:228[B]:HIS:CD2	1:Y:241:THR:HG21	2.40	0.52
1:Z:643:GLN:HB3	1:Z:645:MET:HE2	1.92	0.52
1:i:228[B]:HIS:CD2	1:i:241:THR:HG21	2.40	0.52
1:j:353:LEU:CD2	1:j:643:GLN:HG2	2.39	0.52
1:j:439:GLN:HA	1:k:357:HIS:HA	1.92	0.52
1:m:271:TYR:HA	1:m:380:ASN:ND2	2.24	0.52
1:w:357:HIS:HA	1:y:439:GLN:HA	1.92	0.52
1:6:578:SER:O	1:7:482:ARG:HD3	2.10	0.52
1:A:388:ARG:HH12	1:I:562:GLU:HA	1.74	0.52
1:A:562:GLU:HA	1:G:388:ARG:HH12	1.74	0.52
1:D:578:SER:O	1:N:482:ARG:HD3	2.10	0.52
1:H:643:GLN:HB3	1:H:645:MET:HE2	1.92	0.52
1:M:228[B]:HIS:CD2	1:M:241:THR:HG21	2.40	0.52
1:N:353:LEU:CD2	1:N:643:GLN:HG2	2.39	0.52
1:i:357:HIS:HA	1:k:439:GLN:HA	1.91	0.52
1:t:578:SER:O	1:u:482:ARG:HD3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:534:MET:HG2	1:1:535:HIS:CD2	2.44	0.52
1:A:643:GLN:HB3	1:A:645:MET:HE2	1.92	0.51
1:D:320:LYS:HE2	1:D:333:ASN:OD1	2.08	0.51
1:D:353:LEU:CD2	1:D:643:GLN:HG2	2.39	0.51
1:G:578:SER:O	1:I:482:ARG:HD3	2.10	0.51
1:T:534:MET:HG2	1:T:535:HIS:CD2	2.44	0.51
1:X:357:HIS:HA	1:e:439:GLN:HA	1.92	0.51
1:c:578:SER:O	1:o:482:ARG:HD3	2.09	0.51
1:i:353:LEU:CD2	1:i:643:GLN:HG2	2.39	0.51
1:k:320:LYS:HE2	1:k:333:ASN:OD1	2.08	0.51
1:v:643:GLN:HB3	1:v:645:MET:HE2	1.92	0.51
1:c:353:LEU:CD2	1:c:643:GLN:HG2	2.39	0.51
1:g:622:THR:HG22	1:h:605:GLN:HE21	1.74	0.51
1:k:353:LEU:CD2	1:k:643:GLN:HG2	2.39	0.51
1:7:228[B]:HIS:CD2	1:7:241:THR:HG21	2.40	0.51
1:M:357:HIS:HA	1:b:439:GLN:HA	1.92	0.51
1:M:622:THR:HG22	1:b:605:GLN:HE21	1.76	0.51
1:M:643:GLN:HB3	1:M:645:MET:HE2	1.92	0.51
1:N:534:MET:HG2	1:N:535:HIS:CD2	2.44	0.51
1:O:622:THR:HG22	1:n:605:GLN:HE21	1.76	0.51
1:R:439:GLN:HA	1:S:357:HIS:HA	1.92	0.51
1:T:605:GLN:HE21	1:d:622:THR:HG22	1.76	0.51
1:d:605:GLN:HE21	1:l:622:THR:HG22	1.76	0.51
1:h:228[B]:HIS:CD2	1:h:241:THR:HG21	2.40	0.51
1:i:534:MET:HG2	1:i:535:HIS:CD2	2.44	0.51
1:m:534:MET:HG2	1:m:535:HIS:CD2	2.44	0.51
1:m:605:GLN:HE21	1:n:622:THR:HG22	1.76	0.51
1:p:534:MET:HG2	1:p:535:HIS:CD2	2.44	0.51
1:5:439:GLN:HA	1:6:357:HIS:HA	1.92	0.51
1:B:622:THR:HG22	1:L:605:GLN:HE21	1.76	0.51
1:R:605:GLN:HE21	1:S:622:THR:HG22	1.76	0.51
1:R:622:THR:HG22	1:U:605:GLN:HE21	1.76	0.51
1:V:534:MET:HG2	1:V:535:HIS:CD2	2.44	0.51
1:Z:439:GLN:HA	1:4:357:HIS:HA	1.92	0.51
1:e:353:LEU:CD2	1:e:643:GLN:HG2	2.39	0.51
1:h:643:GLN:HB3	1:h:645:MET:HE2	1.92	0.51
1:l:224:SER:HG	1:l:316:ASN:H	1.57	0.51
1:q:439:GLN:HA	1:r:357:HIS:HA	1.92	0.51
1:q:605:GLN:HE21	1:r:622:THR:HG22	1.76	0.51
1:w:643:GLN:HB3	1:w:645:MET:HE2	1.92	0.51
1:H:439:GLN:HA	1:W:357:HIS:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:643:GLN:HB3	1:I:645:MET:HE2	1.92	0.51
1:K:357:HIS:HA	1:8:439:GLN:HA	1.92	0.51
1:R:643:GLN:HB3	1:R:645:MET:HE2	1.92	0.51
1:V:643:GLN:HB3	1:V:645:MET:HE2	1.92	0.51
1:Z:357:HIS:HA	1:3:439:GLN:HA	1.92	0.51
1:p:643:GLN:HB3	1:p:645:MET:HE2	1.92	0.51
1:q:622:THR:HG22	1:s:605:GLN:HE21	1.76	0.51
1:q:643:GLN:HB3	1:q:645:MET:HE2	1.92	0.51
1:r:448:GLN:NE2	1:r:454:GLN:HB3	2.19	0.51
1:t:622:THR:HG22	1:v:605:GLN:HE21	1.76	0.51
1:u:643:GLN:HB3	1:u:645:MET:HE2	1.92	0.51
1:z:605:GLN:HE21	1:1:622:THR:HG22	1.76	0.51
1:E:605:GLN:HE21	1:Q:622:THR:HG22	1.76	0.51
1:E:643:GLN:HB3	1:E:645:MET:HE2	1.92	0.51
1:H:482:ARG:HD3	1:Y:578:SER:O	2.10	0.51
1:L:643:GLN:HB3	1:L:645:MET:HE2	1.92	0.51
1:a:439:GLN:HA	1:8:357:HIS:HA	1.92	0.51
1:c:439:GLN:HA	1:o:357:HIS:HA	1.92	0.51
1:w:605:GLN:HE21	1:x:622:THR:HG22	1.76	0.51
1:A:605:GLN:HE21	1:G:622:THR:HG22	1.76	0.51
1:D:482:ARG:HD3	1:P:578:SER:O	2.10	0.51
1:J:439:GLN:HA	1:L:357:HIS:HA	1.92	0.51
1:J:605:GLN:HE21	1:L:622:THR:HG22	1.76	0.51
1:d:643:GLN:HB3	1:d:645:MET:HE2	1.92	0.51
1:j:578:SER:O	1:k:482:ARG:HD3	2.10	0.51
1:n:643:GLN:HB3	1:n:645:MET:HE2	1.92	0.51
1:s:643:GLN:HB3	1:s:645:MET:HE2	1.92	0.51
1:z:357:HIS:HA	1:2:439:GLN:HA	1.92	0.51
1:z:439:GLN:HA	1:1:357:HIS:HA	1.92	0.51
1:5:482:ARG:HD3	1:7:578:SER:O	2.10	0.51
1:B:357:HIS:HA	1:L:439:GLN:HA	1.92	0.51
1:f:439:GLN:HA	1:h:357:HIS:HA	1.93	0.51
1:m:643:GLN:HB3	1:m:645:MET:HE2	1.92	0.51
1:y:643:GLN:HB3	1:y:645:MET:HE2	1.92	0.51
1:z:622:THR:HG22	1:2:605:GLN:HE21	1.76	0.51
1:z:643:GLN:HB3	1:z:645:MET:HE2	1.92	0.51
1:B:439:GLN:HA	1:J:357:HIS:HA	1.92	0.51
1:D:605:GLN:HE21	1:N:622:THR:HG22	1.76	0.51
1:E:439:GLN:HA	1:Q:357:HIS:HA	1.93	0.51
1:N:643:GLN:HB3	1:N:645:MET:HE2	1.92	0.51
1:U:643:GLN:HB3	1:U:645:MET:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:605:GLN:HE21	1:e:622:THR:HG22	1.76	0.51
1:i:622:THR:HG22	1:k:605:GLN:HE21	1.76	0.51
1:1:605:GLN:HE21	1:2:622:THR:HG22	1.76	0.51
1:2:228[B]:HIS:CD2	1:2:241:THR:HG21	2.40	0.51
1:A:622:THR:HG22	1:I:605:GLN:HE21	1.76	0.51
1:F:643:GLN:HB3	1:F:645:MET:HE2	1.92	0.51
1:H:622:THR:HG22	1:Y:605:GLN:HE21	1.76	0.51
1:N:605:GLN:HE21	1:P:622:THR:HG22	1.76	0.51
1:T:643:GLN:HB3	1:T:645:MET:HE2	1.92	0.51
1:i:643:GLN:HB3	1:i:645:MET:HE2	1.92	0.51
1:w:439:GLN:HA	1:x:357:HIS:HA	1.93	0.51
1:B:605:GLN:HE21	1:J:622:THR:HG22	1.76	0.50
1:c:622:THR:HG22	1:p:605:GLN:HE21	1.76	0.50
1:i:605:GLN:HE21	1:j:622:THR:HG22	1.76	0.50
1:t:605:GLN:HE21	1:u:622:THR:HG22	1.76	0.50
1:1:439:GLN:HA	1:2:357:HIS:HA	1.92	0.50
1:5:622:THR:HG22	1:7:605:GLN:HE21	1.76	0.50
1:J:228[B]:HIS:CD2	1:J:241:THR:HG21	2.40	0.50
1:O:439:GLN:HA	1:m:357:HIS:HA	1.92	0.50
1:R:357:HIS:HA	1:U:439:GLN:HA	1.92	0.50
1:T:357:HIS:HA	1:l:439:GLN:HA	1.92	0.50
1:X:622:THR:HG22	1:e:605:GLN:HE21	1.76	0.50
1:b:702:TYR:OH	1:c:561:GLU:OE2	2.29	0.50
1:c:605:GLN:HE21	1:o:622:THR:HG22	1.76	0.50
1:t:702:TYR:OH	1:5:561:GLU:OE2	2.28	0.50
1:x:524:HIS:NE2	1:x:529:GLU:HG3	2.27	0.50
1:D:622:THR:HG22	1:P:605:GLN:HE21	1.76	0.50
1:E:524:HIS:NE2	1:E:529:GLU:HG3	2.27	0.50
1:G:605:GLN:HE21	1:I:622:THR:HG22	1.76	0.50
1:Q:524:HIS:NE2	1:Q:529:GLU:HG3	2.27	0.50
1:S:691:ARG:HD3	1:S:695:GLU:OE2	2.12	0.50
1:T:691:ARG:HD3	1:T:695:GLU:OE2	2.12	0.50
1:U:228[B]:HIS:CD2	1:U:241:THR:HG21	2.40	0.50
1:W:691:ARG:HD3	1:W:695:GLU:OE2	2.12	0.50
1:Z:524:HIS:NE2	1:Z:529:GLU:HG3	2.27	0.50
1:d:691:ARG:HD3	1:d:695:GLU:OE2	2.12	0.50
1:j:605:GLN:HE21	1:k:622:THR:HG22	1.76	0.50
1:m:691:ARG:HD3	1:m:695:GLU:OE2	2.12	0.50
1:n:691:ARG:HD3	1:n:695:GLU:OE2	2.12	0.50
1:q:357:HIS:HA	1:s:439:GLN:HA	1.92	0.50
1:r:691:ARG:HD3	1:r:695:GLU:OE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:605:GLN:HE21	1:v:622:THR:HG22	1.76	0.50
1:w:524:HIS:NE2	1:w:529:GLU:HG3	2.27	0.50
1:8:524:HIS:NE2	1:8:529:GLU:HG3	2.27	0.50
1:A:524:HIS:NE2	1:A:529:GLU:HG3	2.27	0.50
1:C:357:HIS:HA	1:M:439:GLN:HA	1.92	0.50
1:C:622:THR:HG22	1:M:605:GLN:HE21	1.76	0.50
1:H:251:TYR:OH	1:H:371:VAL:O	2.26	0.50
1:H:605:GLN:HE21	1:W:622:THR:HG22	1.76	0.50
1:K:622:THR:HG22	1:8:605:GLN:HE21	1.76	0.50
1:l:691:ARG:HD3	1:l:695:GLU:OE2	2.12	0.50
1:p:524:HIS:NE2	1:p:529:GLU:HG3	2.27	0.50
1:r:643:GLN:HB3	1:r:645:MET:HE2	1.92	0.50
1:v:524:HIS:NE2	1:v:529:GLU:HG3	2.27	0.50
1:1:524:HIS:NE2	1:1:529:GLU:HG3	2.27	0.50
1:5:524:HIS:NE2	1:5:529:GLU:HG3	2.27	0.50
1:6:691:ARG:HD3	1:6:695:GLU:OE2	2.12	0.50
1:A:691:ARG:HD3	1:A:695:GLU:OE2	2.12	0.50
1:B:524:HIS:NE2	1:B:529:GLU:HG3	2.27	0.50
1:C:605:GLN:HE21	1:b:622:THR:HG22	1.76	0.50
1:H:524:HIS:NE2	1:H:529:GLU:HG3	2.27	0.50
1:N:524:HIS:NE2	1:N:529:GLU:HG3	2.27	0.50
1:O:691:ARG:HD3	1:O:695:GLU:OE2	2.12	0.50
1:V:524:HIS:NE2	1:V:529:GLU:HG3	2.27	0.50
1:X:482:ARG:HD3	1:e:578:SER:O	2.10	0.50
1:a:524:HIS:NE2	1:a:529:GLU:HG3	2.27	0.50
1:d:524:HIS:NE2	1:d:529:GLU:HG3	2.27	0.50
1:s:691:ARG:HD3	1:s:695:GLU:OE2	2.12	0.50
1:v:691:ARG:HD3	1:v:695:GLU:OE2	2.12	0.50
1:3:524:HIS:NE2	1:3:529:GLU:HG3	2.27	0.50
1:5:605:GLN:HE21	1:6:622:THR:HG22	1.76	0.50
1:6:228[B]:HIS:CD2	1:6:241:THR:HG21	2.40	0.50
1:S:524:HIS:NE2	1:S:529:GLU:HG3	2.27	0.50
1:S:643:GLN:HB3	1:S:645:MET:HE2	1.92	0.50
1:U:691:ARG:HD3	1:U:695:GLU:OE2	2.12	0.50
1:Z:605:GLN:HE21	1:4:622:THR:HG22	1.76	0.50
1:a:691:ARG:HD3	1:a:695:GLU:OE2	2.12	0.50
1:c:524:HIS:NE2	1:c:529:GLU:HG3	2.27	0.50
1:e:524:HIS:NE2	1:e:529:GLU:HG3	2.27	0.50
1:f:445:ASN:HD22	1:h:549:ASN:HD21	1.60	0.50
1:f:622:THR:HG22	1:g:605:GLN:HE21	1.76	0.50
1:f:691:ARG:HD3	1:f:695:GLU:OE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:524:HIS:NE2	1:i:529:GLU:HG3	2.27	0.50
1:k:643:GLN:HB3	1:k:645:MET:HE2	1.92	0.50
1:n:524:HIS:NE2	1:n:529:GLU:HG3	2.27	0.50
1:z:524:HIS:NE2	1:z:529:GLU:HG3	2.27	0.50
1:3:691:ARG:HD3	1:3:695:GLU:OE2	2.12	0.50
1:5:251:TYR:OH	1:5:371:VAL:O	2.26	0.50
1:B:691:ARG:HD3	1:B:695:GLU:OE2	2.12	0.50
1:D:643:GLN:HB3	1:D:645:MET:HE2	1.92	0.50
1:K:605:GLN:HE21	1:a:622:THR:HG22	1.76	0.50
1:L:524:HIS:NE2	1:L:529:GLU:HG3	2.27	0.50
1:X:287:HIS:CE1	1:X:363:PRO:HG3	2.47	0.50
1:b:691:ARG:HD3	1:b:695:GLU:OE2	2.12	0.50
1:g:549:ASN:HD21	1:h:445:ASN:HD22	1.60	0.50
1:i:224:SER:HG	1:i:316:ASN:H	1.58	0.50
1:o:287:HIS:CE1	1:o:363:PRO:HG3	2.47	0.50
1:o:439:GLN:HA	1:p:357:HIS:HA	1.92	0.50
1:p:691:ARG:HD3	1:p:695:GLU:OE2	2.12	0.50
1:r:524:HIS:NE2	1:r:529:GLU:HG3	2.27	0.50
1:s:228[B]:HIS:CD2	1:s:241:THR:HG21	2.40	0.50
1:1:691:ARG:HD3	1:1:695:GLU:OE2	2.12	0.50
1:2:524:HIS:NE2	1:2:529:GLU:HG3	2.27	0.50
1:4:524:HIS:NE2	1:4:529:GLU:HG3	2.27	0.50
1:4:691:ARG:HD3	1:4:695:GLU:OE2	2.12	0.50
1:F:622:THR:HG22	1:Q:605:GLN:HE21	1.76	0.50
1:J:524:HIS:NE2	1:J:529:GLU:HG3	2.27	0.50
1:K:524:HIS:NE2	1:K:529:GLU:HG3	2.27	0.50
1:K:691:ARG:HD3	1:K:695:GLU:OE2	2.12	0.50
1:M:524:HIS:NE2	1:M:529:GLU:HG3	2.27	0.50
1:a:287:HIS:CE1	1:a:363:PRO:HG3	2.47	0.50
1:g:691:ARG:HD3	1:g:695:GLU:OE2	2.12	0.50
1:h:716:GLY:HA2	1:i:256:TYR:O	2.12	0.50
1:j:524:HIS:NE2	1:j:529:GLU:HG3	2.27	0.50
1:3:287:HIS:CE1	1:3:363:PRO:HG3	2.47	0.50
1:7:524:HIS:NE2	1:7:529:GLU:HG3	2.27	0.50
1:C:691:ARG:HD3	1:C:695:GLU:OE2	2.12	0.50
1:K:716:GLY:HA2	1:L:256:TYR:O	2.12	0.50
1:P:287:HIS:CE1	1:P:363:PRO:HG3	2.47	0.50
1:P:524:HIS:NE2	1:P:529:GLU:HG3	2.27	0.50
1:U:287:HIS:CE1	1:U:363:PRO:HG3	2.47	0.50
1:V:287:HIS:CE1	1:V:363:PRO:HG3	2.47	0.50
1:V:691:ARG:HD3	1:V:695:GLU:OE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:524:HIS:NE2	1:Y:529:GLU:HG3	2.27	0.50
1:b:287:HIS:CE1	1:b:363:PRO:HG3	2.47	0.50
1:f:287:HIS:CE1	1:f:363:PRO:HG3	2.47	0.50
1:g:357:HIS:HA	1:h:439:GLN:HA	1.93	0.50
1:h:287:HIS:CE1	1:h:363:PRO:HG3	2.47	0.50
1:q:691:ARG:HD3	1:q:695:GLU:OE2	2.12	0.50
1:s:287:HIS:CE1	1:s:363:PRO:HG3	2.47	0.50
1:x:605:GLN:HE21	1:y:622:THR:HG22	1.76	0.50
1:y:524:HIS:NE2	1:y:529:GLU:HG3	2.27	0.50
1:3:622:THR:HG22	1:4:605:GLN:HE21	1.76	0.50
1:F:524:HIS:NE2	1:F:529:GLU:HG3	2.27	0.49
1:G:322:VAL:HG22	1:G:331:ILE:HG12	1.94	0.49
1:M:716:GLY:HA2	1:N:256:TYR:O	2.12	0.49
1:Q:691:ARG:HD3	1:Q:695:GLU:OE2	2.12	0.49
1:R:691:ARG:HD3	1:R:695:GLU:OE2	2.12	0.49
1:V:551:ASP:CG	1:X:457:ARG:HH21	2.20	0.49
1:W:524:HIS:NE2	1:W:529:GLU:HG3	2.27	0.49
1:X:549:ASN:HD21	1:e:445:ASN:HD22	1.60	0.49
1:Z:287:HIS:CE1	1:Z:363:PRO:HG3	2.47	0.49
1:b:524:HIS:NE2	1:b:529:GLU:HG3	2.27	0.49
1:f:524:HIS:NE2	1:f:529:GLU:HG3	2.27	0.49
1:h:524:HIS:NE2	1:h:529:GLU:HG3	2.27	0.49
1:j:287:HIS:CE1	1:j:363:PRO:HG3	2.47	0.49
1:p:287:HIS:CE1	1:p:363:PRO:HG3	2.47	0.49
1:u:691:ARG:HD3	1:u:695:GLU:OE2	2.12	0.49
1:z:256:TYR:O	1:4:716:GLY:HA2	2.12	0.49
1:2:691:ARG:HD3	1:2:695:GLU:OE2	2.12	0.49
1:6:524:HIS:NE2	1:6:529:GLU:HG3	2.27	0.49
1:8:287:HIS:CE1	1:8:363:PRO:HG3	2.47	0.49
1:I:691:ARG:HD3	1:I:695:GLU:OE2	2.12	0.49
1:J:691:ARG:HD3	1:J:695:GLU:OE2	2.12	0.49
1:M:287:HIS:CE1	1:M:363:PRO:HG3	2.47	0.49
1:N:287:HIS:CE1	1:N:363:PRO:HG3	2.47	0.49
1:Q:287:HIS:CE1	1:Q:363:PRO:HG3	2.47	0.49
1:T:524:HIS:NE2	1:T:529:GLU:HG3	2.27	0.49
1:g:716:GLY:HA2	1:1:256:TYR:O	2.12	0.49
1:w:622:THR:HG22	1:y:605:GLN:HE21	1.76	0.49
1:y:287:HIS:CE1	1:y:363:PRO:HG3	2.47	0.49
1:C:549:ASN:HD21	1:M:445:ASN:HD22	1.60	0.49
1:E:287:HIS:CE1	1:E:363:PRO:HG3	2.47	0.49
1:F:287:HIS:CE1	1:F:363:PRO:HG3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:439:GLN:HA	1:I:357:HIS:HA	1.92	0.49
1:I:524:HIS:NE2	1:I:529:GLU:HG3	2.27	0.49
1:J:287:HIS:CE1	1:J:363:PRO:HG3	2.47	0.49
1:O:322:VAL:HG22	1:O:331:ILE:HG12	1.95	0.49
1:O:605:GLN:HE21	1:m:622:THR:HG22	1.76	0.49
1:T:622:THR:HG22	1:l:605:GLN:HE21	1.76	0.49
1:W:605:GLN:HE21	1:Y:622:THR:HG22	1.76	0.49
1:Y:691:ARG:HD3	1:Y:695:GLU:OE2	2.12	0.49
1:e:287:HIS:CE1	1:e:363:PRO:HG3	2.47	0.49
1:i:287:HIS:CE1	1:i:363:PRO:HG3	2.47	0.49
1:l:287:HIS:CE1	1:l:363:PRO:HG3	2.47	0.49
1:l:322:VAL:HG22	1:l:331:ILE:HG12	1.95	0.49
1:m:524:HIS:NE2	1:m:529:GLU:HG3	2.27	0.49
1:o:445:ASN:HD22	1:p:549:ASN:HD21	1.61	0.49
1:q:445:ASN:HD22	1:r:549:ASN:HD21	1.60	0.49
1:t:322:VAL:HG22	1:t:331:ILE:HG12	1.95	0.49
1:t:524:HIS:NE2	1:t:529:GLU:HG3	2.27	0.49
1:x:287:HIS:CE1	1:x:363:PRO:HG3	2.47	0.49
1:x:691:ARG:HD3	1:x:695:GLU:OE2	2.12	0.49
1:5:287:HIS:CE1	1:5:363:PRO:HG3	2.47	0.49
1:6:287:HIS:CE1	1:6:363:PRO:HG3	2.47	0.49
1:7:691:ARG:HD3	1:7:695:GLU:OE2	2.12	0.49
1:A:287:HIS:CE1	1:A:363:PRO:HG3	2.47	0.49
1:A:549:ASN:HD21	1:I:445:ASN:HD22	1.61	0.49
1:M:549:ASN:HD21	1:b:445:ASN:HD22	1.60	0.49
1:P:251:TYR:OH	1:P:371:VAL:O	2.26	0.49
1:Q:322:VAL:HG22	1:Q:331:ILE:HG12	1.95	0.49
1:Y:287:HIS:CE1	1:Y:363:PRO:HG3	2.47	0.49
1:Z:691:ARG:HD3	1:Z:695:GLU:OE2	2.12	0.49
1:k:691:ARG:HD3	1:k:695:GLU:OE2	2.12	0.49
1:v:287:HIS:CE1	1:v:363:PRO:HG3	2.47	0.49
1:w:287:HIS:CE1	1:w:363:PRO:HG3	2.47	0.49
1:x:322:VAL:HG22	1:x:331:ILE:HG12	1.95	0.49
1:y:691:ARG:HD3	1:y:695:GLU:OE2	2.12	0.49
1:2:287:HIS:CE1	1:2:363:PRO:HG3	2.47	0.49
1:B:256:TYR:O	1:C:716:GLY:HA2	2.13	0.49
1:C:287:HIS:CE1	1:C:363:PRO:HG3	2.47	0.49
1:D:691:ARG:HD3	1:D:695:GLU:OE2	2.12	0.49
1:E:622:THR:HG22	1:F:605:GLN:HE21	1.76	0.49
1:G:287:HIS:CE1	1:G:363:PRO:HG3	2.47	0.49
1:G:524:HIS:NE2	1:G:529:GLU:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:287:HIS:CE1	1:H:363:PRO:HG3	2.47	0.49
1:K:287:HIS:CE1	1:K:363:PRO:HG3	2.47	0.49
1:N:691:ARG:HD3	1:N:695:GLU:OE2	2.12	0.49
1:O:287:HIS:CE1	1:O:363:PRO:HG3	2.47	0.49
1:R:445:ASN:HD22	1:S:549:ASN:HD21	1.60	0.49
1:W:287:HIS:CE1	1:W:363:PRO:HG3	2.47	0.49
1:c:287:HIS:CE1	1:c:363:PRO:HG3	2.47	0.49
1:c:445:ASN:HD22	1:o:549:ASN:HD21	1.60	0.49
1:i:691:ARG:HD3	1:i:695:GLU:OE2	2.12	0.49
1:u:524:HIS:NE2	1:u:529:GLU:HG3	2.27	0.49
1:6:605:GLN:HE21	1:7:622:THR:HG22	1.76	0.49
1:8:691:ARG:HD3	1:8:695:GLU:OE2	2.12	0.49
1:B:445:ASN:HD22	1:J:549:ASN:HD21	1.60	0.49
1:D:256:TYR:O	1:E:716:GLY:HA2	2.12	0.49
1:D:287:HIS:CE1	1:D:363:PRO:HG3	2.47	0.49
1:L:228[B]:HIS:CD2	1:L:241:THR:HG21	2.40	0.49
1:M:223:SER:HB2	1:M:316:ASN:HD21	1.78	0.49
1:N:224:SER:HG	1:N:316:ASN:H	1.59	0.49
1:R:223:SER:HB2	1:R:316:ASN:HD21	1.78	0.49
1:T:499:PRO:O	1:T:503:ALA:HB2	2.13	0.49
1:U:524:HIS:NE2	1:U:529:GLU:HG3	2.27	0.49
1:X:691:ARG:HD3	1:X:695:GLU:OE2	2.12	0.49
1:Y:505:LYS:HA	1:Y:515:VAL:HG23	1.95	0.49
1:Z:622:THR:HG22	1:3:605:GLN:HE21	1.76	0.49
1:c:505:LYS:HA	1:c:515:VAL:HG23	1.95	0.49
1:d:322:VAL:HG22	1:d:331:ILE:HG12	1.95	0.49
1:d:445:ASN:HD22	1:l:549:ASN:HD21	1.60	0.49
1:e:505:LYS:HA	1:e:515:VAL:HG23	1.95	0.49
1:e:691:ARG:HD3	1:e:695:GLU:OE2	2.12	0.49
1:g:287:HIS:CE1	1:g:363:PRO:HG3	2.47	0.49
1:n:287:HIS:CE1	1:n:363:PRO:HG3	2.47	0.49
1:n:322:VAL:HG22	1:n:331:ILE:HG12	1.95	0.49
1:o:691:ARG:HD3	1:o:695:GLU:OE2	2.12	0.49
1:q:223:SER:HB2	1:q:316:ASN:HD21	1.78	0.49
1:s:524:HIS:NE2	1:s:529:GLU:HG3	2.27	0.49
1:u:445:ASN:HD22	1:v:549:ASN:HD21	1.61	0.49
1:u:716:GLY:HA2	1:2:256:TYR:O	2.12	0.49
1:1:445:ASN:HD22	1:2:549:ASN:HD21	1.60	0.49
1:4:287:HIS:CE1	1:4:363:PRO:HG3	2.47	0.49
1:5:691:ARG:HD3	1:5:695:GLU:OE2	2.12	0.49
1:B:287:HIS:CE1	1:B:363:PRO:HG3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:499:PRO:O	1:B:503:ALA:HB2	2.13	0.49
1:C:499:PRO:O	1:C:503:ALA:HB2	2.13	0.49
1:F:691:ARG:HD3	1:F:695:GLU:OE2	2.12	0.49
1:G:223:SER:HB2	1:G:316:ASN:HD21	1.78	0.49
1:G:716:GLY:HA2	1:W:256:TYR:O	2.12	0.49
1:J:505:LYS:HA	1:J:515:VAL:HG23	1.95	0.49
1:L:691:ARG:HD3	1:L:695:GLU:OE2	2.12	0.49
1:S:499:PRO:O	1:S:503:ALA:HB2	2.13	0.49
1:T:223:SER:HB2	1:T:316:ASN:HD21	1.78	0.49
1:T:505:LYS:HA	1:T:515:VAL:HG23	1.95	0.49
1:U:223:SER:HB2	1:U:316:ASN:HD21	1.78	0.49
1:X:228[B]:HIS:CD2	1:X:241:THR:HG21	2.40	0.49
1:X:524:HIS:NE2	1:X:529:GLU:HG3	2.27	0.49
1:c:691:ARG:HD3	1:c:695:GLU:OE2	2.12	0.49
1:d:287:HIS:CE1	1:d:363:PRO:HG3	2.47	0.49
1:g:499:PRO:O	1:g:503:ALA:HB2	2.13	0.49
1:h:223:SER:HB2	1:h:316:ASN:HD21	1.78	0.49
1:j:223:SER:HB2	1:j:316:ASN:HD21	1.78	0.49
1:j:583:ASN:OD1	1:j:586:ALA:N	2.40	0.49
1:k:256:TYR:O	1:w:716:GLY:HA2	2.13	0.49
1:m:223:SER:HB2	1:m:316:ASN:HD21	1.78	0.49
1:m:499:PRO:O	1:m:503:ALA:HB2	2.13	0.49
1:m:505:LYS:HA	1:m:515:VAL:HG23	1.95	0.49
1:r:499:PRO:O	1:r:503:ALA:HB2	2.13	0.49
1:s:223:SER:HB2	1:s:316:ASN:HD21	1.78	0.49
1:t:223:SER:HB2	1:t:316:ASN:HD21	1.78	0.49
1:t:287:HIS:CE1	1:t:363:PRO:HG3	2.47	0.49
1:t:439:GLN:HA	1:u:357:HIS:HA	1.93	0.49
1:t:691:ARG:HD3	1:t:695:GLU:OE2	2.12	0.49
1:w:499:PRO:O	1:w:503:ALA:HB2	2.13	0.49
1:7:287:HIS:CE1	1:7:363:PRO:HG3	2.47	0.49
1:7:505:LYS:HA	1:7:515:VAL:HG23	1.95	0.49
1:A:256:TYR:O	1:B:716:GLY:HA2	2.13	0.49
1:C:561:GLU:O	1:C:564:ARG:HG3	2.13	0.49
1:D:223:SER:HB2	1:D:316:ASN:HD21	1.78	0.49
1:D:499:PRO:O	1:D:503:ALA:HB2	2.13	0.49
1:E:223:SER:HB2	1:E:316:ASN:HD21	1.78	0.49
1:E:499:PRO:O	1:E:503:ALA:HB2	2.13	0.49
1:G:691:ARG:HD3	1:G:695:GLU:OE2	2.12	0.49
1:H:691:ARG:HD3	1:H:695:GLU:OE2	2.12	0.49
1:I:322:VAL:HG22	1:I:331:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:223:SER:HB2	1:J:316:ASN:HD21	1.78	0.49
1:L:287:HIS:CE1	1:L:363:PRO:HG3	2.47	0.49
1:O:524:HIS:NE2	1:O:529:GLU:HG3	2.27	0.49
1:O:549:ASN:HD21	1:n:445:ASN:HD22	1.61	0.49
1:P:223:SER:HB2	1:P:316:ASN:HD21	1.78	0.49
1:P:691:ARG:HD3	1:P:695:GLU:OE2	2.12	0.49
1:S:287:HIS:CE1	1:S:363:PRO:HG3	2.47	0.49
1:a:605:GLN:HE21	1:8:622:THR:HG22	1.76	0.49
1:g:561:GLU:O	1:g:564:ARG:HG3	2.13	0.49
1:k:287:HIS:CE1	1:k:363:PRO:HG3	2.47	0.49
1:k:499:PRO:O	1:k:503:ALA:HB2	2.13	0.49
1:k:524:HIS:NE2	1:k:529:GLU:HG3	2.27	0.49
1:l:524:HIS:NE2	1:l:529:GLU:HG3	2.27	0.49
1:n:499:PRO:O	1:n:503:ALA:HB2	2.13	0.49
1:o:605:GLN:HE21	1:p:622:THR:HG22	1.76	0.49
1:q:287:HIS:CE1	1:q:363:PRO:HG3	2.47	0.49
1:q:524:HIS:NE2	1:q:529:GLU:HG3	2.27	0.49
1:t:716:GLY:HA2	1:6:256:TYR:O	2.12	0.49
1:u:322:VAL:HG22	1:u:331:ILE:HG12	1.95	0.49
1:1:287:HIS:CE1	1:1:363:PRO:HG3	2.47	0.49
1:1:499:PRO:O	1:1:503:ALA:HB2	2.13	0.49
1:2:223:SER:HB2	1:2:316:ASN:HD21	1.78	0.49
1:2:505:LYS:HA	1:2:515:VAL:HG23	1.95	0.49
1:A:223:SER:HB2	1:A:316:ASN:HD21	1.78	0.49
1:C:256:TYR:O	1:D:716:GLY:HA2	2.13	0.49
1:D:524:HIS:NE2	1:D:529:GLU:HG3	2.27	0.49
1:E:445:ASN:HD22	1:Q:549:ASN:HD21	1.60	0.49
1:F:549:ASN:HD21	1:Q:445:ASN:HD22	1.61	0.49
1:G:499:PRO:O	1:G:503:ALA:HB2	2.13	0.49
1:I:716:GLY:HA2	1:J:256:TYR:O	2.12	0.49
1:K:322:VAL:HG22	1:K:331:ILE:HG12	1.95	0.49
1:M:691:ARG:HD3	1:M:695:GLU:OE2	2.12	0.49
1:N:499:PRO:O	1:N:503:ALA:HB2	2.13	0.49
1:R:287:HIS:CE1	1:R:363:PRO:HG3	2.47	0.49
1:T:256:TYR:O	1:i:716:GLY:HA2	2.13	0.49
1:U:322:VAL:HG22	1:U:331:ILE:HG12	1.95	0.49
1:U:561:GLU:OE2	1:V:702:TYR:OH	2.29	0.49
1:V:256:TYR:O	1:W:716:GLY:HA2	2.13	0.49
1:a:499:PRO:O	1:a:503:ALA:HB2	2.13	0.49
1:b:223:SER:HB2	1:b:316:ASN:HD21	1.78	0.49
1:d:499:PRO:O	1:d:503:ALA:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:223:SER:HB2	1:f:316:ASN:HD21	1.78	0.49
1:g:524:HIS:NE2	1:g:529:GLU:HG3	2.27	0.49
1:h:691:ARG:HD3	1:h:695:GLU:OE2	2.12	0.49
1:i:499:PRO:O	1:i:503:ALA:HB2	2.13	0.49
1:i:549:ASN:HD21	1:k:445:ASN:HD22	1.61	0.49
1:k:223:SER:HB2	1:k:316:ASN:HD21	1.78	0.49
1:o:505:LYS:HA	1:o:515:VAL:HG23	1.95	0.49
1:o:524:HIS:NE2	1:o:529:GLU:HG3	2.27	0.49
1:t:499:PRO:O	1:t:503:ALA:HB2	2.13	0.49
1:v:223:SER:HB2	1:v:316:ASN:HD21	1.78	0.49
1:w:223:SER:HB2	1:w:316:ASN:HD21	1.78	0.49
1:w:445:ASN:HD22	1:x:549:ASN:HD21	1.60	0.49
1:z:228[B]:HIS:CD2	1:z:241:THR:HG21	2.40	0.49
1:z:287:HIS:CE1	1:z:363:PRO:HG3	2.47	0.49
1:z:691:ARG:HD3	1:z:695:GLU:OE2	2.12	0.49
1:2:561:GLU:O	1:2:564:ARG:HG3	2.13	0.49
1:3:223:SER:HB2	1:3:316:ASN:HD21	1.78	0.49
1:3:499:PRO:O	1:3:503:ALA:HB2	2.13	0.49
1:4:322:VAL:HG22	1:4:331:ILE:HG12	1.95	0.49
1:6:583:ASN:OD1	1:6:586:ALA:N	2.40	0.49
1:C:524:HIS:NE2	1:C:529:GLU:HG3	2.27	0.49
1:D:445:ASN:HD22	1:N:549:ASN:HD21	1.61	0.49
1:E:322:VAL:HG22	1:E:331:ILE:HG12	1.95	0.49
1:J:561:GLU:O	1:J:564:ARG:HG3	2.13	0.49
1:L:223:SER:HB2	1:L:316:ASN:HD21	1.78	0.49
1:L:505:LYS:HA	1:L:515:VAL:HG23	1.95	0.49
1:N:716:GLY:HA2	1:m:256:TYR:O	2.13	0.49
1:Q:505:LYS:HA	1:Q:515:VAL:HG23	1.95	0.49
1:R:524:HIS:NE2	1:R:529:GLU:HG3	2.27	0.49
1:V:251:TYR:OH	1:V:371:VAL:O	2.26	0.49
1:V:561:GLU:O	1:V:564:ARG:HG3	2.13	0.49
1:X:505:LYS:HA	1:X:515:VAL:HG23	1.95	0.49
1:a:223:SER:HB2	1:a:316:ASN:HD21	1.78	0.49
1:f:256:TYR:O	1:z:716:GLY:HA2	2.13	0.49
1:j:691:ARG:HD3	1:j:695:GLU:OE2	2.12	0.49
1:m:287:HIS:CE1	1:m:363:PRO:HG3	2.47	0.49
1:p:256:TYR:O	1:6:716:GLY:HA2	2.13	0.49
1:p:561:GLU:O	1:p:564:ARG:HG3	2.13	0.49
1:r:287:HIS:CE1	1:r:363:PRO:HG3	2.47	0.49
1:s:322:VAL:HG22	1:s:331:ILE:HG12	1.95	0.49
1:u:561:GLU:O	1:u:564:ARG:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:445:ASN:HD22	1:y:549:ASN:HD21	1.61	0.49
1:x:505:LYS:HA	1:x:515:VAL:HG23	1.95	0.49
1:z:561:GLU:O	1:z:564:ARG:HG3	2.13	0.49
1:6:223:SER:HB2	1:6:316:ASN:HD21	1.78	0.49
1:A:577:VAL:O	1:A:591:GLY:N	2.46	0.48
1:B:561:GLU:O	1:B:564:ARG:HG3	2.13	0.48
1:F:583:ASN:OD1	1:F:586:ALA:N	2.40	0.48
1:I:561:GLU:O	1:I:564:ARG:HG3	2.13	0.48
1:L:561:GLU:O	1:L:564:ARG:HG3	2.13	0.48
1:N:322:VAL:HG22	1:N:331:ILE:HG12	1.94	0.48
1:N:445:ASN:HD22	1:P:549:ASN:HD21	1.61	0.48
1:O:223:SER:HB2	1:O:316:ASN:HD21	1.78	0.48
1:O:256:TYR:O	1:d:716:GLY:HA2	2.13	0.48
1:P:267:ASN:HA	1:P:270:HIS:HD2	1.79	0.48
1:P:716:GLY:HA2	1:Q:256:TYR:O	2.13	0.48
1:R:251:TYR:OH	1:R:371:VAL:O	2.26	0.48
1:U:499:PRO:O	1:U:503:ALA:HB2	2.13	0.48
1:V:622:THR:HG22	1:X:605:GLN:HE21	1.76	0.48
1:W:223:SER:HB2	1:W:316:ASN:HD21	1.78	0.48
1:X:388:ARG:NH2	1:e:562:GLU:HG3	2.28	0.48
1:Y:716:GLY:HA2	1:4:256:TYR:O	2.13	0.48
1:Z:445:ASN:HD22	1:4:549:ASN:HD21	1.60	0.48
1:Z:577:VAL:O	1:Z:591:GLY:N	2.46	0.48
1:j:267:ASN:HA	1:j:270:HIS:HD2	1.78	0.48
1:j:716:GLY:HA2	1:x:256:TYR:O	2.13	0.48
1:m:716:GLY:HA2	1:s:256:TYR:O	2.12	0.48
1:u:499:PRO:O	1:u:503:ALA:HB2	2.13	0.48
1:v:256:TYR:O	1:1:716:GLY:HA2	2.13	0.48
1:v:577:VAL:O	1:v:591:GLY:N	2.46	0.48
1:w:322:VAL:HG22	1:w:331:ILE:HG12	1.95	0.48
1:z:223:SER:HB2	1:z:316:ASN:HD21	1.78	0.48
1:z:505:LYS:HA	1:z:515:VAL:HG23	1.95	0.48
1:1:322:VAL:HG22	1:1:331:ILE:HG12	1.94	0.48
1:8:577:VAL:O	1:8:591:GLY:N	2.46	0.48
1:B:322:VAL:HG22	1:B:331:ILE:HG12	1.94	0.48
1:C:505:LYS:HA	1:C:515:VAL:HG23	1.95	0.48
1:D:322:VAL:HG22	1:D:331:ILE:HG12	1.95	0.48
1:D:505:LYS:HA	1:D:515:VAL:HG23	1.95	0.48
1:D:561:GLU:O	1:D:564:ARG:HG3	2.13	0.48
1:F:561:GLU:O	1:F:564:ARG:HG3	2.13	0.48
1:I:287:HIS:CE1	1:I:363:PRO:HG3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:499:PRO:O	1:I:503:ALA:HB2	2.13	0.48
1:J:499:PRO:O	1:J:503:ALA:HB2	2.13	0.48
1:K:499:PRO:O	1:K:503:ALA:HB2	2.13	0.48
1:K:549:ASN:HD21	1:8:445:ASN:HD22	1.60	0.48
1:L:716:GLY:HA2	1:b:256:TYR:O	2.13	0.48
1:M:322:VAL:HG22	1:M:331:ILE:HG12	1.95	0.48
1:T:287:HIS:CE1	1:T:363:PRO:HG3	2.47	0.48
1:W:445:ASN:HD22	1:Y:549:ASN:HD21	1.61	0.48
1:Y:223:SER:HB2	1:Y:316:ASN:HD21	1.78	0.48
1:Y:499:PRO:O	1:Y:503:ALA:HB2	2.13	0.48
1:Z:505:LYS:HA	1:Z:515:VAL:HG23	1.95	0.48
1:g:256:TYR:O	1:k:716:GLY:HA2	2.13	0.48
1:h:322:VAL:HG22	1:h:331:ILE:HG12	1.95	0.48
1:k:267:ASN:HA	1:k:270:HIS:HD2	1.78	0.48
1:k:322:VAL:HG22	1:k:331:ILE:HG12	1.95	0.48
1:k:561:GLU:O	1:k:564:ARG:HG3	2.13	0.48
1:l:223:SER:HB2	1:l:316:ASN:HD21	1.78	0.48
1:l:256:TYR:O	1:n:716:GLY:HA2	2.13	0.48
1:l:505:LYS:HA	1:l:515:VAL:HG23	1.95	0.48
1:p:251:TYR:OH	1:p:371:VAL:O	2.26	0.48
1:p:583:ASN:OD1	1:p:586:ALA:N	2.40	0.48
1:u:287:HIS:CE1	1:u:363:PRO:HG3	2.47	0.48
1:y:561:GLU:O	1:y:564:ARG:HG3	2.13	0.48
1:1:561:GLU:O	1:1:564:ARG:HG3	2.13	0.48
1:2:499:PRO:O	1:2:503:ALA:HB2	2.13	0.48
1:4:499:PRO:O	1:4:503:ALA:HB2	2.13	0.48
1:6:445:ASN:HD22	1:7:549:ASN:HD21	1.61	0.48
1:7:223:SER:HB2	1:7:316:ASN:HD21	1.78	0.48
1:8:505:LYS:HA	1:8:515:VAL:HG23	1.95	0.48
1:F:223:SER:HB2	1:F:316:ASN:HD21	1.78	0.48
1:F:716:GLY:HA2	1:G:256:TYR:O	2.13	0.48
1:K:256:TYR:O	1:7:716:GLY:HA2	2.13	0.48
1:M:256:TYR:O	1:c:716:GLY:HA2	2.13	0.48
1:O:505:LYS:HA	1:O:515:VAL:HG23	1.95	0.48
1:Q:251:TYR:OH	1:Q:371:VAL:O	2.26	0.48
1:S:223:SER:HB2	1:S:316:ASN:HD21	1.78	0.48
1:T:445:ASN:HD22	1:d:549:ASN:HD21	1.61	0.48
1:T:561:GLU:O	1:T:564:ARG:HG3	2.13	0.48
1:T:716:GLY:HA2	1:U:256:TYR:O	2.12	0.48
1:V:322:VAL:HG22	1:V:331:ILE:HG12	1.94	0.48
1:W:583:ASN:OD1	1:W:586:ALA:N	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:322:VAL:HG22	1:a:331:ILE:HG12	1.95	0.48
1:b:561:GLU:O	1:b:564:ARG:HG3	2.13	0.48
1:f:322:VAL:HG22	1:f:331:ILE:HG12	1.95	0.48
1:f:499:PRO:O	1:f:503:ALA:HB2	2.13	0.48
1:g:505:LYS:HA	1:g:515:VAL:HG23	1.95	0.48
1:i:322:VAL:HG22	1:i:331:ILE:HG12	1.95	0.48
1:i:445:ASN:HD22	1:j:549:ASN:HD21	1.61	0.48
1:j:322:VAL:HG22	1:j:331:ILE:HG12	1.95	0.48
1:j:499:PRO:O	1:j:503:ALA:HB2	2.13	0.48
1:q:251:TYR:OH	1:q:371:VAL:O	2.26	0.48
1:r:223:SER:HB2	1:r:316:ASN:HD21	1.78	0.48
1:r:256:TYR:O	1:x:716:GLY:HA2	2.12	0.48
1:r:267:ASN:HA	1:r:270:HIS:HD2	1.79	0.48
1:s:499:PRO:O	1:s:503:ALA:HB2	2.13	0.48
1:u:577:VAL:O	1:u:591:GLY:N	2.46	0.48
1:y:223:SER:HB2	1:y:316:ASN:HD21	1.78	0.48
1:y:583:ASN:OD1	1:y:586:ALA:N	2.40	0.48
1:z:445:ASN:HD22	1:1:549:ASN:HD21	1.60	0.48
1:1:505:LYS:HA	1:1:515:VAL:HG23	1.95	0.48
1:3:716:GLY:HA2	1:8:256:TYR:O	2.13	0.48
1:7:702:TYR:OH	1:8:561:GLU:OE2	2.29	0.48
1:A:561:GLU:O	1:A:564:ARG:HG3	2.13	0.48
1:D:267:ASN:HA	1:D:270:HIS:HD2	1.79	0.48
1:E:561:GLU:O	1:E:564:ARG:HG3	2.13	0.48
1:E:691:ARG:HD3	1:E:695:GLU:OE2	2.12	0.48
1:I:577:VAL:O	1:I:591:GLY:N	2.46	0.48
1:N:505:LYS:HA	1:N:515:VAL:HG23	1.95	0.48
1:P:499:PRO:O	1:P:503:ALA:HB2	2.13	0.48
1:Q:267:ASN:HA	1:Q:270:HIS:HD2	1.79	0.48
1:S:267:ASN:HA	1:S:270:HIS:HD2	1.79	0.48
1:U:267:ASN:HA	1:U:270:HIS:HD2	1.79	0.48
1:V:445:ASN:HD22	1:e:549:ASN:HD21	1.61	0.48
1:X:256:TYR:O	1:f:716:GLY:HA2	2.13	0.48
1:Y:322:VAL:HG22	1:Y:331:ILE:HG12	1.95	0.48
1:Z:256:TYR:O	1:a:716:GLY:HA2	2.13	0.48
1:Z:499:PRO:O	1:Z:503:ALA:HB2	2.13	0.48
1:a:561:GLU:OE2	1:3:702:TYR:OH	2.29	0.48
1:b:322:VAL:HG22	1:b:331:ILE:HG12	1.95	0.48
1:b:505:LYS:HA	1:b:515:VAL:HG23	1.95	0.48
1:c:223:SER:HB2	1:c:316:ASN:HD21	1.78	0.48
1:c:549:ASN:HD21	1:p:445:ASN:HD22	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:561:GLU:O	1:c:564:ARG:HG3	2.13	0.48
1:e:223:SER:HB2	1:e:316:ASN:HD21	1.78	0.48
1:f:561:GLU:O	1:f:564:ARG:HG3	2.13	0.48
1:h:702:TYR:OH	1:k:561:GLU:OE2	2.28	0.48
1:j:256:TYR:O	1:l:716:GLY:HA2	2.13	0.48
1:k:505:LYS:HA	1:k:515:VAL:HG23	1.95	0.48
1:m:445:ASN:HD22	1:n:549:ASN:HD21	1.61	0.48
1:m:561:GLU:O	1:m:564:ARG:HG3	2.13	0.48
1:p:499:PRO:O	1:p:503:ALA:HB2	2.13	0.48
1:r:505:LYS:HA	1:r:515:VAL:HG23	1.95	0.48
1:v:561:GLU:O	1:v:564:ARG:HG3	2.13	0.48
1:x:267:ASN:HA	1:x:270:HIS:HD2	1.79	0.48
1:3:322:VAL:HG22	1:3:331:ILE:HG12	1.95	0.48
1:6:322:VAL:HG22	1:6:331:ILE:HG12	1.95	0.48
1:7:322:VAL:HG22	1:7:331:ILE:HG12	1.95	0.48
1:7:499:PRO:O	1:7:503:ALA:HB2	2.13	0.48
1:8:499:PRO:O	1:8:503:ALA:HB2	2.13	0.48
1:A:322:VAL:HG22	1:A:331:ILE:HG12	1.95	0.48
1:B:549:ASN:HD21	1:L:445:ASN:HD22	1.60	0.48
1:D:583:ASN:OD1	1:D:586:ALA:N	2.40	0.48
1:H:499:PRO:O	1:H:503:ALA:HB2	2.13	0.48
1:I:267:ASN:HA	1:I:270:HIS:HD2	1.79	0.48
1:K:223:SER:HB2	1:K:316:ASN:HD21	1.78	0.48
1:L:267:ASN:HA	1:L:270:HIS:HD2	1.79	0.48
1:M:505:LYS:HA	1:M:515:VAL:HG23	1.95	0.48
1:O:561:GLU:O	1:O:564:ARG:HG3	2.13	0.48
1:O:716:GLY:HA2	1:P:256:TYR:O	2.13	0.48
1:P:322:VAL:HG22	1:P:331:ILE:HG12	1.95	0.48
1:Q:716:GLY:HA2	1:S:256:TYR:O	2.12	0.48
1:S:505:LYS:HA	1:S:515:VAL:HG23	1.95	0.48
1:T:267:ASN:HA	1:T:270:HIS:HD2	1.79	0.48
1:W:322:VAL:HG22	1:W:331:ILE:HG12	1.95	0.48
1:a:561:GLU:O	1:a:564:ARG:HG3	2.13	0.48
1:b:499:PRO:O	1:b:503:ALA:HB2	2.13	0.48
1:e:561:GLU:O	1:e:564:ARG:HG3	2.13	0.48
1:f:505:LYS:HA	1:f:515:VAL:HG23	1.95	0.48
1:i:505:LYS:HA	1:i:515:VAL:HG23	1.95	0.48
1:k:583:ASN:OD1	1:k:586:ALA:N	2.40	0.48
1:n:267:ASN:HA	1:n:270:HIS:HD2	1.79	0.48
1:s:267:ASN:HA	1:s:270:HIS:HD2	1.79	0.48
1:t:256:TYR:O	1:y:716:GLY:HA2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:549:ASN:HD21	1:v:445:ASN:HD22	1.61	0.48
1:u:267:ASN:HA	1:u:270:HIS:HD2	1.79	0.48
1:v:267:ASN:HA	1:v:270:HIS:HD2	1.79	0.48
1:w:561:GLU:O	1:w:564:ARG:HG3	2.13	0.48
1:5:505:LYS:HA	1:5:515:VAL:HG23	1.95	0.48
1:A:267:ASN:HA	1:A:270:HIS:HD2	1.79	0.48
1:B:505:LYS:HA	1:B:515:VAL:HG23	1.95	0.48
1:E:267:ASN:HA	1:E:270:HIS:HD2	1.79	0.48
1:F:256:TYR:O	1:R:716:GLY:HA2	2.13	0.48
1:F:322:VAL:HG22	1:F:331:ILE:HG12	1.95	0.48
1:H:505:LYS:HA	1:H:515:VAL:HG23	1.95	0.48
1:J:322:VAL:HG22	1:J:331:ILE:HG12	1.95	0.48
1:M:561:GLU:O	1:M:564:ARG:HG3	2.13	0.48
1:N:583:ASN:OD1	1:N:586:ALA:N	2.40	0.48
1:O:445:ASN:HD22	1:m:549:ASN:HD21	1.60	0.48
1:V:499:PRO:O	1:V:503:ALA:HB2	2.13	0.48
1:V:583:ASN:OD1	1:V:586:ALA:N	2.40	0.48
1:W:499:PRO:O	1:W:503:ALA:HB2	2.13	0.48
1:X:223:SER:HB2	1:X:316:ASN:HD21	1.78	0.48
1:Y:702:TYR:OH	1:Z:561:GLU:OE2	2.29	0.48
1:a:579:ASN:OD1	1:a:589:THR:OG1	2.23	0.48
1:c:251:TYR:OH	1:c:371:VAL:O	2.26	0.48
1:c:322:VAL:HG22	1:c:331:ILE:HG12	1.95	0.48
1:d:267:ASN:HA	1:d:270:HIS:HD2	1.79	0.48
1:h:505:LYS:HA	1:h:515:VAL:HG23	1.95	0.48
1:h:561:GLU:O	1:h:564:ARG:HG3	2.13	0.48
1:m:267:ASN:HA	1:m:270:HIS:HD2	1.79	0.48
1:p:322:VAL:HG22	1:p:331:ILE:HG12	1.95	0.48
1:r:605:GLN:HE21	1:s:622:THR:HG22	1.76	0.48
1:t:561:GLU:O	1:t:564:ARG:HG3	2.13	0.48
1:v:322:VAL:HG22	1:v:331:ILE:HG12	1.95	0.48
1:v:505:LYS:HA	1:v:515:VAL:HG23	1.95	0.48
1:w:691:ARG:HD3	1:w:695:GLU:OE2	2.12	0.48
1:x:223:SER:HB2	1:x:316:ASN:HD21	1.78	0.48
1:y:505:LYS:HA	1:y:515:VAL:HG23	1.95	0.48
1:z:267:ASN:HA	1:z:270:HIS:HD2	1.79	0.48
1:2:322:VAL:HG22	1:2:331:ILE:HG12	1.95	0.48
1:2:716:GLY:HA2	1:3:256:TYR:O	2.13	0.48
1:3:561:GLU:O	1:3:564:ARG:HG3	2.13	0.48
1:5:223:SER:HB2	1:5:316:ASN:HD21	1.78	0.48
1:5:499:PRO:O	1:5:503:ALA:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:499:PRO:O	1:6:503:ALA:HB2	2.13	0.48
1:6:579:ASN:OD1	1:6:589:THR:OG1	2.23	0.48
1:A:505:LYS:HA	1:A:515:VAL:HG23	1.95	0.48
1:C:223:SER:HB2	1:C:316:ASN:HD21	1.78	0.48
1:D:561:GLU:OE2	1:M:702:TYR:OH	2.29	0.48
1:F:505:LYS:HA	1:F:515:VAL:HG23	1.95	0.48
1:F:539:ILE:HG12	1:F:557:ILE:HG12	1.96	0.48
1:H:223:SER:HB2	1:H:316:ASN:HD21	1.78	0.48
1:H:481:TYR:O	1:H:521:MET:HE1	2.14	0.48
1:J:224:SER:HG	1:J:316:ASN:H	1.61	0.48
1:J:716:GLY:HA2	1:a:256:TYR:O	2.13	0.48
1:L:322:VAL:HG22	1:L:331:ILE:HG12	1.94	0.48
1:O:267:ASN:HA	1:O:270:HIS:HD2	1.79	0.48
1:P:539:ILE:HG12	1:P:557:ILE:HG12	1.96	0.48
1:Q:223:SER:HB2	1:Q:316:ASN:HD21	1.78	0.48
1:S:716:GLY:HA2	1:d:256:TYR:O	2.13	0.48
1:T:549:ASN:HD21	1:l:445:ASN:HD22	1.60	0.48
1:V:549:ASN:HD21	1:X:445:ASN:HD22	1.62	0.48
1:Y:481:TYR:O	1:Y:521:MET:HE1	2.14	0.48
1:Z:561:GLU:O	1:Z:564:ARG:HG3	2.13	0.48
1:b:716:GLY:HA2	1:o:256:TYR:O	2.13	0.48
1:d:505:LYS:HA	1:d:515:VAL:HG23	1.95	0.48
1:j:539:ILE:HG12	1:j:557:ILE:HG12	1.96	0.48
1:l:561:GLU:O	1:l:564:ARG:HG3	2.13	0.48
1:m:539:ILE:HG12	1:m:557:ILE:HG12	1.96	0.48
1:o:223:SER:HB2	1:o:316:ASN:HD21	1.78	0.48
1:q:322:VAL:HG22	1:q:331:ILE:HG12	1.94	0.48
1:q:716:GLY:HA2	1:y:256:TYR:O	2.13	0.48
1:w:267:ASN:HA	1:w:270:HIS:HD2	1.79	0.48
1:y:322:VAL:HG22	1:y:331:ILE:HG12	1.95	0.48
1:y:481:TYR:O	1:y:521:MET:HE1	2.14	0.48
1:y:539:ILE:HG12	1:y:557:ILE:HG12	1.96	0.48
1:z:322:VAL:HG22	1:z:331:ILE:HG12	1.95	0.48
1:2:224:SER:HG	1:2:316:ASN:H	1.61	0.48
1:4:223:SER:HB2	1:4:316:ASN:HD21	1.78	0.48
1:4:267:ASN:HA	1:4:270:HIS:HD2	1.79	0.48
1:5:256:TYR:O	1:8:716:GLY:HA2	2.13	0.48
1:5:481:TYR:O	1:5:521:MET:HE1	2.14	0.48
1:8:561:GLU:O	1:8:564:ARG:HG3	2.13	0.48
1:B:539:ILE:HG12	1:B:557:ILE:HG12	1.96	0.48
1:C:445:ASN:HD22	1:b:549:ASN:HD21	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:481:TYR:O	1:F:521:MET:HE1	2.14	0.48
1:G:561:GLU:O	1:G:564:ARG:HG3	2.13	0.48
1:G:702:TYR:OH	1:H:561:GLU:OE2	2.28	0.48
1:K:267:ASN:HA	1:K:270:HIS:HD2	1.79	0.48
1:K:505:LYS:HA	1:K:515:VAL:HG23	1.95	0.48
1:K:539:ILE:HG12	1:K:557:ILE:HG12	1.96	0.48
1:M:539:ILE:HG12	1:M:557:ILE:HG12	1.96	0.48
1:N:481:TYR:O	1:N:521:MET:HE1	2.14	0.48
1:Q:561:GLU:O	1:Q:564:ARG:HG3	2.13	0.48
1:R:256:TYR:O	1:V:716:GLY:HA2	2.13	0.48
1:S:445:ASN:HD22	1:U:549:ASN:HD21	1.61	0.48
1:S:605:GLN:HE21	1:U:622:THR:HG22	1.76	0.48
1:T:539:ILE:HG12	1:T:557:ILE:HG12	1.96	0.48
1:W:267:ASN:HA	1:W:270:HIS:HD2	1.79	0.48
1:X:539:ILE:HG12	1:X:557:ILE:HG12	1.96	0.48
1:a:267:ASN:HA	1:a:270:HIS:HD2	1.79	0.48
1:d:223:SER:HB2	1:d:316:ASN:HD21	1.78	0.48
1:e:322:VAL:HG22	1:e:331:ILE:HG12	1.95	0.48
1:f:267:ASN:HA	1:f:270:HIS:HD2	1.79	0.48
1:f:549:ASN:HD21	1:g:445:ASN:HD22	1.61	0.48
1:g:223:SER:HB2	1:g:316:ASN:HD21	1.78	0.48
1:h:267:ASN:HA	1:h:270:HIS:HD2	1.78	0.48
1:h:539:ILE:HG12	1:h:557:ILE:HG12	1.96	0.48
1:i:223:SER:HB2	1:i:316:ASN:HD21	1.78	0.48
1:i:579:ASN:OD1	1:i:589:THR:OG1	2.23	0.48
1:l:267:ASN:HA	1:l:270:HIS:HD2	1.79	0.48
1:n:223:SER:HB2	1:n:316:ASN:HD21	1.78	0.48
1:n:256:TYR:O	1:r:716:GLY:HA2	2.13	0.48
1:n:505:LYS:HA	1:n:515:VAL:HG23	1.95	0.48
1:n:583:ASN:OD1	1:n:586:ALA:N	2.40	0.48
1:p:267:ASN:HA	1:p:270:HIS:HD2	1.79	0.48
1:p:481:TYR:O	1:p:521:MET:HE1	2.14	0.48
1:p:716:GLY:HA2	1:q:256:TYR:O	2.13	0.48
1:q:539:ILE:HG12	1:q:557:ILE:HG12	1.96	0.48
1:r:322:VAL:HG22	1:r:331:ILE:HG12	1.95	0.48
1:v:481:TYR:O	1:v:521:MET:HE1	2.14	0.48
1:v:539:ILE:HG12	1:v:557:ILE:HG12	1.96	0.48
1:4:505:LYS:HA	1:4:515:VAL:HG23	1.95	0.48
1:5:445:ASN:HD22	1:6:549:ASN:HD21	1.61	0.48
1:5:561:GLU:O	1:5:564:ARG:HG3	2.13	0.48
1:7:481:TYR:O	1:7:521:MET:HE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:322:VAL:HG22	1:8:331:ILE:HG12	1.94	0.48
1:A:481:TYR:O	1:A:521:MET:HE1	2.14	0.48
1:A:539:ILE:HG12	1:A:557:ILE:HG12	1.96	0.48
1:G:583:ASN:OD1	1:G:586:ALA:N	2.40	0.48
1:H:256:TYR:O	1:Z:716:GLY:HA2	2.13	0.48
1:H:561:GLU:O	1:H:564:ARG:HG3	2.13	0.48
1:I:583:ASN:OD1	1:I:586:ALA:N	2.40	0.48
1:N:579:ASN:OD1	1:N:589:THR:OG1	2.23	0.48
1:O:481:TYR:O	1:O:521:MET:HE1	2.14	0.48
1:O:539:ILE:HG12	1:O:557:ILE:HG12	1.96	0.48
1:R:322:VAL:HG22	1:R:331:ILE:HG12	1.94	0.48
1:R:481:TYR:O	1:R:521:MET:HE1	2.14	0.48
1:R:539:ILE:HG12	1:R:557:ILE:HG12	1.96	0.48
1:R:577:VAL:O	1:R:591:GLY:N	2.46	0.48
1:S:322:VAL:HG22	1:S:331:ILE:HG12	1.95	0.48
1:S:481:TYR:O	1:S:521:MET:HE1	2.14	0.48
1:V:267:ASN:HA	1:V:270:HIS:HD2	1.79	0.48
1:V:481:TYR:O	1:V:521:MET:HE1	2.14	0.48
1:V:505:LYS:HA	1:V:515:VAL:HG23	1.95	0.48
1:X:481:TYR:O	1:X:521:MET:HE1	2.14	0.48
1:X:577:VAL:O	1:X:591:GLY:N	2.46	0.48
1:Z:322:VAL:HG22	1:Z:331:ILE:HG12	1.94	0.48
1:b:267:ASN:HA	1:b:270:HIS:HD2	1.79	0.48
1:c:499:PRO:O	1:c:503:ALA:HB2	2.13	0.48
1:c:539:ILE:HG12	1:c:557:ILE:HG12	1.96	0.48
1:d:561:GLU:O	1:d:564:ARG:HG3	2.13	0.48
1:d:702:TYR:OH	1:n:561:GLU:OE2	2.29	0.48
1:e:539:ILE:HG12	1:e:557:ILE:HG12	1.96	0.48
1:f:481:TYR:O	1:f:521:MET:HE1	2.14	0.48
1:h:499:PRO:O	1:h:503:ALA:HB2	2.13	0.48
1:i:481:TYR:O	1:i:521:MET:HE1	2.14	0.48
1:i:583:ASN:OD1	1:i:586:ALA:N	2.40	0.48
1:n:561:GLU:O	1:n:564:ARG:HG3	2.13	0.48
1:o:322:VAL:HG22	1:o:331:ILE:HG12	1.94	0.48
1:o:539:ILE:HG12	1:o:557:ILE:HG12	1.96	0.48
1:o:577:VAL:O	1:o:591:GLY:N	2.46	0.48
1:p:702:TYR:OH	1:s:561:GLU:OE2	2.29	0.48
1:q:481:TYR:O	1:q:521:MET:HE1	2.14	0.48
1:r:481:TYR:O	1:r:521:MET:HE1	2.14	0.48
1:u:481:TYR:O	1:u:521:MET:HE1	2.14	0.48
1:u:702:TYR:OH	1:l:561:GLU:OE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:561:GLU:O	1:x:564:ARG:HG3	2.13	0.48
1:1:539:ILE:HG12	1:1:557:ILE:HG12	1.96	0.48
1:3:267:ASN:HA	1:3:270:HIS:HD2	1.79	0.48
1:4:539:ILE:HG12	1:4:557:ILE:HG12	1.96	0.48
1:6:267:ASN:HA	1:6:270:HIS:HD2	1.79	0.48
1:A:583:ASN:OD1	1:A:586:ALA:N	2.40	0.48
1:D:388:ARG:NH2	1:P:562:GLU:HG3	2.29	0.48
1:H:445:ASN:HD22	1:W:549:ASN:HD21	1.61	0.48
1:I:223:SER:HB2	1:I:316:ASN:HD21	1.78	0.48
1:I:481:TYR:O	1:I:521:MET:HE1	2.14	0.48
1:M:267:ASN:HA	1:M:270:HIS:HD2	1.79	0.48
1:M:499:PRO:O	1:M:503:ALA:HB2	2.13	0.48
1:P:505:LYS:HA	1:P:515:VAL:HG23	1.95	0.48
1:Q:499:PRO:O	1:Q:503:ALA:HB2	2.13	0.48
1:R:561:GLU:O	1:R:564:ARG:HG3	2.13	0.48
1:V:285:ARG:HD2	1:X:440:TYR:CE2	2.49	0.48
1:W:579:ASN:OD1	1:W:589:THR:OG1	2.23	0.48
1:X:499:PRO:O	1:X:503:ALA:HB2	2.13	0.48
1:b:481:TYR:O	1:b:521:MET:HE1	2.14	0.48
1:e:499:PRO:O	1:e:503:ALA:HB2	2.13	0.48
1:e:716:GLY:HA2	1:h:256:TYR:O	2.14	0.48
1:g:577:VAL:O	1:g:591:GLY:N	2.46	0.48
1:j:562:GLU:HG3	1:k:388:ARG:NH2	2.29	0.48
1:l:481:TYR:O	1:l:521:MET:HE1	2.14	0.48
1:l:499:PRO:O	1:l:503:ALA:HB2	2.13	0.48
1:l:539:ILE:HG12	1:l:557:ILE:HG12	1.96	0.48
1:o:481:TYR:O	1:o:521:MET:HE1	2.14	0.48
1:q:577:VAL:O	1:q:591:GLY:N	2.46	0.48
1:t:505:LYS:HA	1:t:515:VAL:HG23	1.95	0.48
1:u:223:SER:HB2	1:u:316:ASN:HD21	1.78	0.48
1:v:499:PRO:O	1:v:503:ALA:HB2	2.13	0.48
1:A:716:GLY:HA2	1:E:256:TYR:O	2.13	0.47
1:E:549:ASN:HD21	1:F:445:ASN:HD22	1.61	0.47
1:F:499:PRO:O	1:F:503:ALA:HB2	2.13	0.47
1:G:481:TYR:O	1:G:521:MET:HE1	2.14	0.47
1:H:716:GLY:HA2	1:I:256:TYR:O	2.13	0.47
1:I:505:LYS:HA	1:I:515:VAL:HG23	1.95	0.47
1:J:481:TYR:O	1:J:521:MET:HE1	2.14	0.47
1:K:481:TYR:O	1:K:521:MET:HE1	2.14	0.47
1:O:499:PRO:O	1:O:503:ALA:HB2	2.13	0.47
1:P:481:TYR:O	1:P:521:MET:HE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:499:PRO:O	1:R:503:ALA:HB2	2.13	0.47
1:T:583:ASN:OD1	1:T:586:ALA:N	2.40	0.47
1:U:481:TYR:O	1:U:521:MET:HE1	2.14	0.47
1:U:716:GLY:HA2	1:e:256:TYR:O	2.13	0.47
1:W:505:LYS:HA	1:W:515:VAL:HG23	1.95	0.47
1:X:322:VAL:HG22	1:X:331:ILE:HG12	1.95	0.47
1:Z:549:ASN:HD21	1:3:445:ASN:HD22	1.61	0.47
1:a:445:ASN:HD22	1:8:549:ASN:HD21	1.60	0.47
1:c:256:TYR:O	1:s:716:GLY:HA2	2.13	0.47
1:d:583:ASN:OD1	1:d:586:ALA:N	2.40	0.47
1:j:505:LYS:HA	1:j:515:VAL:HG23	1.95	0.47
1:o:499:PRO:O	1:o:503:ALA:HB2	2.13	0.47
1:q:561:GLU:O	1:q:564:ARG:HG3	2.13	0.47
1:r:445:ASN:HD22	1:s:549:ASN:HD21	1.61	0.47
1:t:481:TYR:O	1:t:521:MET:HE1	2.14	0.47
1:u:505:LYS:HA	1:u:515:VAL:HG23	1.95	0.47
1:v:583:ASN:OD1	1:v:586:ALA:N	2.40	0.47
1:w:549:ASN:HD21	1:y:445:ASN:HD22	1.61	0.47
1:z:481:TYR:O	1:z:521:MET:HE1	2.14	0.47
1:2:481:TYR:O	1:2:521:MET:HE1	2.14	0.47
1:A:445:ASN:HD22	1:G:549:ASN:HD21	1.61	0.47
1:A:499:PRO:O	1:A:503:ALA:HB2	2.13	0.47
1:D:481:TYR:O	1:D:521:MET:HE1	2.14	0.47
1:G:267:ASN:HA	1:G:270:HIS:HD2	1.79	0.47
1:G:505:LYS:HA	1:G:515:VAL:HG23	1.95	0.47
1:H:539:ILE:HG12	1:H:557:ILE:HG12	1.96	0.47
1:K:561:GLU:O	1:K:564:ARG:HG3	2.13	0.47
1:N:223:SER:HB2	1:N:316:ASN:HD21	1.78	0.47
1:N:267:ASN:HA	1:N:270:HIS:HD2	1.78	0.47
1:O:577:VAL:O	1:O:591:GLY:N	2.46	0.47
1:Q:539:ILE:HG12	1:Q:557:ILE:HG12	1.96	0.47
1:W:481:TYR:O	1:W:521:MET:HE1	2.14	0.47
1:W:562:GLU:HG3	1:Y:388:ARG:NH2	2.29	0.47
1:W:577:VAL:O	1:W:591:GLY:N	2.46	0.47
1:X:226:ASN:ND2	1:Y:401:MET:H	2.10	0.47
1:b:583:ASN:OD1	1:b:586:ALA:N	2.40	0.47
1:d:561:GLU:OE2	1:n:702:TYR:OH	2.29	0.47
1:d:577:VAL:O	1:d:591:GLY:N	2.46	0.47
1:f:562:GLU:HG3	1:h:388:ARG:NH2	2.29	0.47
1:g:267:ASN:HA	1:g:270:HIS:HD2	1.79	0.47
1:j:226:ASN:ND2	1:x:401:MET:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:481:TYR:O	1:j:521:MET:HE1	2.14	0.47
1:k:481:TYR:O	1:k:521:MET:HE1	2.14	0.47
1:n:577:VAL:O	1:n:591:GLY:N	2.46	0.47
1:p:505:LYS:HA	1:p:515:VAL:HG23	1.95	0.47
1:s:481:TYR:O	1:s:521:MET:HE1	2.14	0.47
1:s:561:GLU:O	1:s:564:ARG:HG3	2.13	0.47
1:t:583:ASN:OD1	1:t:586:ALA:N	2.40	0.47
1:u:256:TYR:O	1:5:716:GLY:HA2	2.13	0.47
1:u:539:ILE:HG12	1:u:557:ILE:HG12	1.96	0.47
1:u:583:ASN:OD1	1:u:586:ALA:N	2.40	0.47
1:x:499:PRO:O	1:x:503:ALA:HB2	2.13	0.47
1:y:499:PRO:O	1:y:503:ALA:HB2	2.13	0.47
1:4:481:TYR:O	1:4:521:MET:HE1	2.14	0.47
1:4:561:GLU:O	1:4:564:ARG:HG3	2.13	0.47
1:5:539:ILE:HG12	1:5:557:ILE:HG12	1.96	0.47
1:6:505:LYS:HA	1:6:515:VAL:HG23	1.95	0.47
1:6:562:GLU:HG3	1:7:388:ARG:NH2	2.29	0.47
1:6:577:VAL:O	1:6:591:GLY:N	2.46	0.47
1:8:223:SER:HB2	1:8:316:ASN:HD21	1.78	0.47
1:B:561:GLU:OE2	1:I:702:TYR:OH	2.29	0.47
1:C:267:ASN:HA	1:C:270:HIS:HD2	1.79	0.47
1:C:322:VAL:HG22	1:C:331:ILE:HG12	1.95	0.47
1:I:539:ILE:HG12	1:I:557:ILE:HG12	1.96	0.47
1:L:481:TYR:O	1:L:521:MET:HE1	2.14	0.47
1:L:539:ILE:HG12	1:L:557:ILE:HG12	1.96	0.47
1:R:549:ASN:HD21	1:U:445:ASN:HD22	1.60	0.47
1:T:481:TYR:O	1:T:521:MET:HE1	2.14	0.47
1:U:539:ILE:HG12	1:U:557:ILE:HG12	1.96	0.47
1:U:561:GLU:O	1:U:564:ARG:HG3	2.13	0.47
1:W:561:GLU:O	1:W:564:ARG:HG3	2.13	0.47
1:e:267:ASN:HA	1:e:270:HIS:HD2	1.79	0.47
1:g:295:TRP:CG	1:g:611:LEU:HD13	2.50	0.47
1:h:251:TYR:OH	1:h:371:VAL:O	2.26	0.47
1:m:481:TYR:O	1:m:521:MET:HE1	2.14	0.47
1:q:499:PRO:O	1:q:503:ALA:HB2	2.13	0.47
1:s:539:ILE:HG12	1:s:557:ILE:HG12	1.96	0.47
1:t:267:ASN:HA	1:t:270:HIS:HD2	1.79	0.47
1:x:539:ILE:HG12	1:x:557:ILE:HG12	1.96	0.47
1:5:562:GLU:HG3	1:6:388:ARG:NH2	2.29	0.47
1:6:481:TYR:O	1:6:521:MET:HE1	2.14	0.47
1:6:561:GLU:O	1:6:564:ARG:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:295:TRP:CG	1:C:611:LEU:HD13	2.50	0.47
1:E:481:TYR:O	1:E:521:MET:HE1	2.14	0.47
1:E:526:ASP:OD1	1:E:564:ARG:NH1	2.48	0.47
1:E:562:GLU:HG3	1:Q:388:ARG:NH2	2.30	0.47
1:F:295:TRP:CG	1:F:611:LEU:HD13	2.50	0.47
1:F:526:ASP:OD1	1:F:564:ARG:NH1	2.48	0.47
1:H:322:VAL:HG22	1:H:331:ILE:HG12	1.95	0.47
1:H:562:GLU:HG3	1:W:388:ARG:NH2	2.29	0.47
1:K:445:ASN:HD22	1:a:549:ASN:HD21	1.61	0.47
1:L:295:TRP:CG	1:L:611:LEU:HD13	2.50	0.47
1:M:526:ASP:OD1	1:M:564:ARG:NH1	2.48	0.47
1:N:561:GLU:O	1:N:564:ARG:HG3	2.13	0.47
1:P:226:ASN:ND2	1:Q:401:MET:H	2.12	0.47
1:Q:526:ASP:OD1	1:Q:564:ARG:NH1	2.48	0.47
1:R:267:ASN:HA	1:R:270:HIS:HD2	1.79	0.47
1:S:526:ASP:OD1	1:S:564:ARG:NH1	2.48	0.47
1:Z:223:SER:HB2	1:Z:316:ASN:HD21	1.78	0.47
1:b:539:ILE:HG12	1:b:557:ILE:HG12	1.96	0.47
1:c:562:GLU:HG3	1:o:388:ARG:NH2	2.30	0.47
1:f:583:ASN:OD1	1:f:586:ALA:N	2.40	0.47
1:g:322:VAL:HG22	1:g:331:ILE:HG12	1.95	0.47
1:h:526:ASP:OD1	1:h:564:ARG:NH1	2.48	0.47
1:l:577:VAL:O	1:l:591:GLY:N	2.46	0.47
1:m:583:ASN:OD1	1:m:586:ALA:N	2.40	0.47
1:p:295:TRP:CG	1:p:611:LEU:HD13	2.50	0.47
1:q:267:ASN:HA	1:q:270:HIS:HD2	1.79	0.47
1:q:549:ASN:HD21	1:s:445:ASN:HD22	1.60	0.47
1:r:526:ASP:OD1	1:r:564:ARG:NH1	2.48	0.47
1:r:561:GLU:O	1:r:564:ARG:HG3	2.13	0.47
1:t:562:GLU:HG3	1:u:388:ARG:NH2	2.30	0.47
1:u:295:TRP:CG	1:u:611:LEU:HD13	2.50	0.47
1:v:716:GLY:HA2	1:w:256:TYR:O	2.13	0.47
1:w:295:TRP:CG	1:w:611:LEU:HD13	2.50	0.47
1:w:526:ASP:OD1	1:w:564:ARG:NH1	2.48	0.47
1:x:526:ASP:OD1	1:x:564:ARG:NH1	2.48	0.47
1:y:295:TRP:CG	1:y:611:LEU:HD13	2.50	0.47
1:z:295:TRP:CG	1:z:611:LEU:HD13	2.50	0.47
1:z:499:PRO:O	1:z:503:ALA:HB2	2.13	0.47
1:z:539:ILE:HG12	1:z:557:ILE:HG12	1.96	0.47
1:5:322:VAL:HG22	1:5:331:ILE:HG12	1.95	0.47
1:B:295:TRP:CG	1:B:611:LEU:HD13	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:295:TRP:CG	1:E:611:LEU:HD13	2.50	0.47
1:I:295:TRP:CG	1:I:611:LEU:HD13	2.50	0.47
1:K:526:ASP:OD1	1:K:564:ARG:NH1	2.48	0.47
1:M:251:TYR:OH	1:M:371:VAL:O	2.26	0.47
1:P:526:ASP:OD1	1:P:564:ARG:NH1	2.48	0.47
1:Q:579:ASN:OD1	1:Q:589:THR:OG1	2.23	0.47
1:T:322:VAL:HG22	1:T:331:ILE:HG12	1.95	0.47
1:U:351:TYR:HA	1:U:643:GLN:NE2	2.30	0.47
1:U:505:LYS:HA	1:U:515:VAL:HG23	1.95	0.47
1:V:295:TRP:CG	1:V:611:LEU:HD13	2.50	0.47
1:Z:539:ILE:HG12	1:Z:557:ILE:HG12	1.96	0.47
1:c:267:ASN:HA	1:c:270:HIS:HD2	1.79	0.47
1:c:577:VAL:O	1:c:591:GLY:N	2.46	0.47
1:d:295:TRP:CG	1:d:611:LEU:HD13	2.50	0.47
1:e:226:ASN:ND2	1:h:401:MET:H	2.11	0.47
1:f:539:ILE:HG12	1:f:557:ILE:HG12	1.96	0.47
1:i:267:ASN:HA	1:i:270:HIS:HD2	1.79	0.47
1:i:526:ASP:OD1	1:i:564:ARG:NH1	2.48	0.47
1:i:561:GLU:O	1:i:564:ARG:HG3	2.13	0.47
1:j:526:ASP:OD1	1:j:564:ARG:NH1	2.48	0.47
1:m:295:TRP:CG	1:m:611:LEU:HD13	2.50	0.47
1:q:505:LYS:HA	1:q:515:VAL:HG23	1.95	0.47
1:s:351:TYR:HA	1:s:643:GLN:NE2	2.30	0.47
1:u:226:ASN:ND2	1:2:401:MET:H	2.12	0.47
1:w:562:GLU:HG3	1:x:388:ARG:NH2	2.30	0.47
1:y:526:ASP:OD1	1:y:564:ARG:NH1	2.48	0.47
1:z:251:TYR:OH	1:z:371:VAL:O	2.26	0.47
1:3:549:ASN:HD21	1:4:445:ASN:HD22	1.61	0.47
1:4:295:TRP:CG	1:4:611:LEU:HD13	2.50	0.47
1:4:526:ASP:OD1	1:4:564:ARG:NH1	2.48	0.47
1:8:267:ASN:HA	1:8:270:HIS:HD2	1.79	0.47
1:A:526:ASP:OD1	1:A:564:ARG:NH1	2.48	0.47
1:D:295:TRP:CG	1:D:611:LEU:HD13	2.50	0.47
1:D:539:ILE:HG12	1:D:557:ILE:HG12	1.96	0.47
1:G:295:TRP:CG	1:G:611:LEU:HD13	2.50	0.47
1:G:445:ASN:HD22	1:I:549:ASN:HD21	1.60	0.47
1:G:562:GLU:HG3	1:I:388:ARG:NH2	2.30	0.47
1:J:539:ILE:HG12	1:J:557:ILE:HG12	1.96	0.47
1:K:295:TRP:CG	1:K:611:LEU:HD13	2.50	0.47
1:L:499:PRO:O	1:L:503:ALA:HB2	2.13	0.47
1:N:526:ASP:OD1	1:N:564:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:562:GLU:HG3	1:P:388:ARG:NH2	2.29	0.47
1:R:505:LYS:HA	1:R:515:VAL:HG23	1.95	0.47
1:S:561:GLU:O	1:S:564:ARG:HG3	2.13	0.47
1:T:295:TRP:CG	1:T:611:LEU:HD13	2.50	0.47
1:W:539:ILE:HG12	1:W:557:ILE:HG12	1.96	0.47
1:X:251:TYR:OH	1:X:371:VAL:O	2.26	0.47
1:X:561:GLU:O	1:X:564:ARG:HG3	2.13	0.47
1:Z:267:ASN:HA	1:Z:270:HIS:HD2	1.79	0.47
1:e:577:VAL:O	1:e:591:GLY:N	2.46	0.47
1:j:295:TRP:CG	1:j:611:LEU:HD13	2.50	0.47
1:j:351:TYR:HA	1:j:643:GLN:NE2	2.30	0.47
1:k:295:TRP:CG	1:k:611:LEU:HD13	2.50	0.47
1:n:295:TRP:CG	1:n:611:LEU:HD13	2.50	0.47
1:o:251:TYR:OH	1:o:371:VAL:O	2.26	0.47
1:o:561:GLU:O	1:o:564:ARG:HG3	2.13	0.47
1:p:223:SER:HB2	1:p:316:ASN:HD21	1.78	0.47
1:s:505:LYS:HA	1:s:515:VAL:HG23	1.95	0.47
1:t:445:ASN:HD22	1:u:549:ASN:HD21	1.60	0.47
1:v:526:ASP:OD1	1:v:564:ARG:NH1	2.48	0.47
1:w:481:TYR:O	1:w:521:MET:HE1	2.14	0.47
1:1:295:TRP:CG	1:1:611:LEU:HD13	2.50	0.47
1:6:539:ILE:HG12	1:6:557:ILE:HG12	1.96	0.47
1:8:539:ILE:HG12	1:8:557:ILE:HG12	1.96	0.47
1:B:481:TYR:O	1:B:521:MET:HE1	2.14	0.47
1:C:526:ASP:OD1	1:C:564:ARG:NH1	2.48	0.47
1:D:549:ASN:HD21	1:P:445:ASN:HD22	1.61	0.47
1:D:579:ASN:OD1	1:D:589:THR:OG1	2.23	0.47
1:F:267:ASN:HA	1:F:270:HIS:HD2	1.79	0.47
1:I:226:ASN:ND2	1:J:401:MET:H	2.13	0.47
1:I:576:THR:HG22	1:I:590:THR:OG1	2.15	0.47
1:L:251:TYR:OH	1:L:371:VAL:O	2.26	0.47
1:M:295:TRP:CG	1:M:611:LEU:HD13	2.50	0.47
1:M:481:TYR:O	1:M:521:MET:HE1	2.14	0.47
1:N:295:TRP:CG	1:N:611:LEU:HD13	2.50	0.47
1:N:351:TYR:HA	1:N:643:GLN:NE2	2.30	0.47
1:P:295:TRP:CG	1:P:611:LEU:HD13	2.50	0.47
1:P:300:ASN:O	1:P:729:LEU:HD21	2.15	0.47
1:P:351:TYR:HA	1:P:643:GLN:NE2	2.30	0.47
1:P:561:GLU:O	1:P:564:ARG:HG3	2.13	0.47
1:S:226:ASN:ND2	1:d:401:MET:H	2.13	0.47
1:U:295:TRP:CG	1:U:611:LEU:HD13	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:223:SER:HB2	1:V:316:ASN:HD21	1.78	0.47
1:V:539:ILE:HG12	1:V:557:ILE:HG12	1.96	0.47
1:W:295:TRP:CG	1:W:611:LEU:HD13	2.50	0.47
1:X:551:ASP:CG	1:e:457:ARG:HH21	2.23	0.47
1:Y:295:TRP:CG	1:Y:611:LEU:HD13	2.50	0.47
1:Y:526:ASP:OD1	1:Y:564:ARG:NH1	2.48	0.47
1:Y:561:GLU:O	1:Y:564:ARG:HG3	2.13	0.47
1:Y:583:ASN:OD1	1:Y:586:ALA:N	2.40	0.47
1:Z:481:TYR:O	1:Z:521:MET:HE1	2.14	0.47
1:b:351:TYR:HA	1:b:643:GLN:NE2	2.30	0.47
1:c:481:TYR:O	1:c:521:MET:HE1	2.14	0.47
1:c:551:ASP:CG	1:p:457:ARG:HH21	2.23	0.47
1:c:576:THR:HG22	1:c:590:THR:OG1	2.15	0.47
1:e:576:THR:HG22	1:e:590:THR:OG1	2.15	0.47
1:f:351:TYR:HA	1:f:643:GLN:NE2	2.30	0.47
1:g:300:ASN:O	1:g:729:LEU:HD21	2.15	0.47
1:g:526:ASP:OD1	1:g:564:ARG:NH1	2.48	0.47
1:h:295:TRP:CG	1:h:611:LEU:HD13	2.50	0.47
1:h:481:TYR:O	1:h:521:MET:HE1	2.14	0.47
1:i:295:TRP:CG	1:i:611:LEU:HD13	2.50	0.47
1:i:562:GLU:HG3	1:j:388:ARG:NH2	2.29	0.47
1:i:702:TYR:OH	1:l:561:GLU:OE2	2.29	0.47
1:j:445:ASN:HD22	1:k:549:ASN:HD21	1.61	0.47
1:k:539:ILE:HG12	1:k:557:ILE:HG12	1.96	0.47
1:m:322:VAL:HG22	1:m:331:ILE:HG12	1.95	0.47
1:n:401:MET:H	1:r:226:ASN:ND2	2.13	0.47
1:o:300:ASN:O	1:o:729:LEU:HD21	2.15	0.47
1:o:562:GLU:HG3	1:p:388:ARG:NH2	2.30	0.47
1:p:539:ILE:HG12	1:p:557:ILE:HG12	1.96	0.47
1:s:295:TRP:CG	1:s:611:LEU:HD13	2.50	0.47
1:t:295:TRP:CG	1:t:611:LEU:HD13	2.50	0.47
1:u:576:THR:HG22	1:u:590:THR:OG1	2.15	0.47
1:u:673:THR:HG21	1:2:652:PRO:HD2	1.97	0.47
1:y:267:ASN:HA	1:y:270:HIS:HD2	1.79	0.47
1:1:481:TYR:O	1:1:521:MET:HE1	2.14	0.47
1:2:539:ILE:HG12	1:2:557:ILE:HG12	1.96	0.47
1:3:505:LYS:HA	1:3:515:VAL:HG23	1.95	0.47
1:5:267:ASN:HA	1:5:270:HIS:HD2	1.79	0.47
1:6:295:TRP:CG	1:6:611:LEU:HD13	2.50	0.47
1:8:481:TYR:O	1:8:521:MET:HE1	2.14	0.47
1:A:652:PRO:HD2	1:B:673:THR:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:ASN:O	1:C:729:LEU:HD21	2.15	0.47
1:C:388:ARG:NH2	1:M:562:GLU:HG3	2.30	0.47
1:E:351:TYR:HA	1:E:643:GLN:NE2	2.30	0.47
1:E:505:LYS:HA	1:E:515:VAL:HG23	1.95	0.47
1:F:351:TYR:HA	1:F:643:GLN:NE2	2.30	0.47
1:H:267:ASN:HA	1:H:270:HIS:HD2	1.79	0.47
1:H:295:TRP:CG	1:H:611:LEU:HD13	2.50	0.47
1:J:267:ASN:HA	1:J:270:HIS:HD2	1.79	0.47
1:J:445:ASN:HD22	1:L:549:ASN:HD21	1.60	0.47
1:T:351:TYR:HA	1:T:643:GLN:NE2	2.30	0.47
1:V:388:ARG:NH2	1:X:562:GLU:HG3	2.30	0.47
1:V:457:ARG:HH21	1:e:551:ASP:CG	2.23	0.47
1:a:505:LYS:HA	1:a:515:VAL:HG23	1.95	0.47
1:c:295:TRP:CG	1:c:611:LEU:HD13	2.50	0.47
1:c:351:TYR:HA	1:c:643:GLN:NE2	2.30	0.47
1:e:295:TRP:CG	1:e:611:LEU:HD13	2.50	0.47
1:e:481:TYR:O	1:e:521:MET:HE1	2.14	0.47
1:e:526:ASP:OD1	1:e:564:ARG:NH1	2.48	0.47
1:f:551:ASP:CG	1:g:457:ARG:HH21	2.23	0.47
1:i:351:TYR:HA	1:i:643:GLN:NE2	2.30	0.47
1:i:539:ILE:HG12	1:i:557:ILE:HG12	1.96	0.47
1:j:300:ASN:O	1:j:729:LEU:HD21	2.15	0.47
1:j:561:GLU:O	1:j:564:ARG:HG3	2.13	0.47
1:m:351:TYR:HA	1:m:643:GLN:NE2	2.30	0.47
1:n:539:ILE:HG12	1:n:557:ILE:HG12	1.96	0.47
1:w:351:TYR:HA	1:w:643:GLN:NE2	2.30	0.47
1:w:505:LYS:HA	1:w:515:VAL:HG23	1.95	0.47
1:x:481:TYR:O	1:x:521:MET:HE1	2.14	0.47
1:y:351:TYR:HA	1:y:643:GLN:NE2	2.30	0.47
1:3:526:ASP:OD1	1:3:564:ARG:NH1	2.48	0.47
1:5:295:TRP:CG	1:5:611:LEU:HD13	2.50	0.47
1:7:295:TRP:CG	1:7:611:LEU:HD13	2.50	0.47
1:7:300:ASN:O	1:7:729:LEU:HD21	2.15	0.47
1:7:526:ASP:OD1	1:7:564:ARG:NH1	2.48	0.47
1:7:561:GLU:O	1:7:564:ARG:HG3	2.13	0.47
1:C:457:ARG:HH21	1:b:551:ASP:CG	2.23	0.47
1:C:481:TYR:O	1:C:521:MET:HE1	2.14	0.47
1:E:539:ILE:HG12	1:E:557:ILE:HG12	1.96	0.47
1:I:673:THR:HG21	1:J:652:PRO:HD2	1.97	0.47
1:J:351:TYR:HA	1:J:643:GLN:NE2	2.30	0.47
1:K:388:ARG:NH2	1:8:562:GLU:HG3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:562:GLU:HG3	1:m:388:ARG:NH2	2.30	0.47
1:R:526:ASP:OD1	1:R:564:ARG:NH1	2.48	0.47
1:T:388:ARG:NH2	1:l:562:GLU:HG3	2.30	0.47
1:V:652:PRO:HD2	1:W:673:THR:HG21	1.97	0.47
1:X:300:ASN:O	1:X:729:LEU:HD21	2.15	0.47
1:X:526:ASP:OD1	1:X:564:ARG:NH1	2.48	0.47
1:Y:300:ASN:O	1:Y:729:LEU:HD21	2.15	0.47
1:Y:539:ILE:HG12	1:Y:557:ILE:HG12	1.96	0.47
1:Z:295:TRP:CG	1:Z:611:LEU:HD13	2.50	0.47
1:Z:526:ASP:OD1	1:Z:564:ARG:NH1	2.48	0.47
1:Z:562:GLU:HG3	1:4:388:ARG:NH2	2.30	0.47
1:a:481:TYR:O	1:a:521:MET:HE1	2.14	0.47
1:a:526:ASP:OD1	1:a:564:ARG:NH1	2.48	0.47
1:a:539:ILE:HG12	1:a:557:ILE:HG12	1.96	0.47
1:c:526:ASP:OD1	1:c:564:ARG:NH1	2.48	0.47
1:e:351:TYR:HA	1:e:643:GLN:NE2	2.30	0.47
1:i:561:GLU:OE2	1:l:702:TYR:OH	2.28	0.47
1:n:481:TYR:O	1:n:521:MET:HE1	2.14	0.47
1:o:526:ASP:OD1	1:o:564:ARG:NH1	2.48	0.47
1:q:526:ASP:OD1	1:q:564:ARG:NH1	2.48	0.47
1:q:579:ASN:OD1	1:q:589:THR:OG1	2.23	0.47
1:r:295:TRP:CG	1:r:611:LEU:HD13	2.50	0.47
1:r:576:THR:HG22	1:r:590:THR:OG1	2.15	0.47
1:r:652:PRO:HD2	1:x:673:THR:HG21	1.97	0.47
1:3:481:TYR:O	1:3:521:MET:HE1	2.14	0.47
1:7:539:ILE:HG12	1:7:557:ILE:HG12	1.96	0.47
1:8:295:TRP:CG	1:8:611:LEU:HD13	2.50	0.47
1:B:562:GLU:HG3	1:J:388:ARG:NH2	2.30	0.47
1:C:539:ILE:HG12	1:C:557:ILE:HG12	1.96	0.47
1:H:576:THR:HG22	1:H:590:THR:OG1	2.15	0.47
1:K:351:TYR:HA	1:K:643:GLN:NE2	2.30	0.47
1:K:576:THR:HG22	1:K:590:THR:OG1	2.15	0.47
1:M:388:ARG:NH2	1:b:562:GLU:HG3	2.30	0.47
1:O:673:THR:HG21	1:P:652:PRO:HD2	1.97	0.47
1:P:218:ASP:HB3	1:P:222:ASN:HB2	1.97	0.47
1:Q:218:ASP:HB3	1:Q:222:ASN:HB2	1.97	0.47
1:Q:481:TYR:O	1:Q:521:MET:HE1	2.14	0.47
1:Q:673:THR:HG21	1:S:652:PRO:HD2	1.97	0.47
1:S:576:THR:HG22	1:S:590:THR:OG1	2.15	0.47
1:X:267:ASN:HA	1:X:270:HIS:HD2	1.79	0.47
1:X:295:TRP:CG	1:X:611:LEU:HD13	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:539:ILE:HG12	1:d:557:ILE:HG12	1.96	0.47
1:d:576:THR:HG22	1:d:590:THR:OG1	2.15	0.47
1:f:285:ARG:HD2	1:g:440:TYR:CE2	2.50	0.47
1:f:576:THR:HG22	1:f:590:THR:OG1	2.15	0.47
1:g:218:ASP:HB3	1:g:222:ASN:HB2	1.97	0.47
1:g:285:ARG:HD2	1:h:440:TYR:CE2	2.50	0.47
1:g:481:TYR:O	1:g:521:MET:HE1	2.14	0.47
1:j:218:ASP:HB3	1:j:222:ASN:HB2	1.98	0.47
1:j:652:PRO:HD2	1:l:673:THR:HG21	1.97	0.47
1:k:401:MET:H	1:w:226:ASN:ND2	2.13	0.47
1:m:300:ASN:O	1:m:729:LEU:HD21	2.15	0.47
1:n:576:THR:HG22	1:n:590:THR:OG1	2.15	0.47
1:o:295:TRP:CG	1:o:611:LEU:HD13	2.50	0.47
1:p:652:PRO:HD2	1:6:673:THR:HG21	1.97	0.47
1:s:526:ASP:OD1	1:s:564:ARG:NH1	2.48	0.47
1:u:251:TYR:OH	1:u:371:VAL:O	2.26	0.47
1:u:562:GLU:HG3	1:v:388:ARG:NH2	2.30	0.47
1:v:652:PRO:HD2	1:1:673:THR:HG21	1.97	0.47
1:w:539:ILE:HG12	1:w:557:ILE:HG12	1.96	0.47
1:x:218:ASP:HB3	1:x:222:ASN:HB2	1.97	0.47
1:2:267:ASN:HA	1:2:270:HIS:HD2	1.79	0.47
1:2:351:TYR:HA	1:2:643:GLN:NE2	2.30	0.47
1:4:351:TYR:HA	1:4:643:GLN:NE2	2.30	0.47
1:4:576:THR:HG22	1:4:590:THR:OG1	2.15	0.47
1:5:652:PRO:HD2	1:8:673:THR:HG21	1.97	0.47
1:8:526:ASP:OD1	1:8:564:ARG:NH1	2.48	0.47
1:B:526:ASP:OD1	1:B:564:ARG:NH1	2.48	0.46
1:B:576:THR:HG22	1:B:590:THR:OG1	2.15	0.46
1:C:218:ASP:HB3	1:C:222:ASN:HB2	1.98	0.46
1:C:440:TYR:CE2	1:b:285:ARG:HD2	2.51	0.46
1:C:562:GLU:HG3	1:b:388:ARG:NH2	2.30	0.46
1:D:562:GLU:HG3	1:N:388:ARG:NH2	2.29	0.46
1:F:576:THR:HG22	1:F:590:THR:OG1	2.15	0.46
1:H:652:PRO:HD2	1:Z:673:THR:HG21	1.97	0.46
1:N:539:ILE:HG12	1:N:557:ILE:HG12	1.96	0.46
1:O:226:ASN:ND2	1:P:401:MET:H	2.13	0.46
1:O:526:ASP:OD1	1:O:564:ARG:NH1	2.48	0.46
1:O:652:PRO:HD2	1:d:673:THR:HG21	1.97	0.46
1:P:576:THR:HG22	1:P:590:THR:OG1	2.15	0.46
1:Q:318:GLN:HE22	1:S:337:SER:HA	1.80	0.46
1:Q:583:ASN:OD1	1:Q:586:ALA:N	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:351:TYR:HA	1:R:643:GLN:NE2	2.30	0.46
1:S:295:TRP:CG	1:S:611:LEU:HD13	2.50	0.46
1:S:539:ILE:HG12	1:S:557:ILE:HG12	1.96	0.46
1:T:300:ASN:O	1:T:729:LEU:HD21	2.15	0.46
1:T:318:GLN:HE22	1:U:337:SER:HA	1.80	0.46
1:T:652:PRO:HD2	1:i:673:THR:HG21	1.97	0.46
1:U:526:ASP:OD1	1:U:564:ARG:NH1	2.48	0.46
1:U:576:THR:HG22	1:U:590:THR:OG1	2.15	0.46
1:X:576:THR:HG22	1:X:590:THR:OG1	2.15	0.46
1:b:576:THR:HG22	1:b:590:THR:OG1	2.15	0.46
1:d:481:TYR:O	1:d:521:MET:HE1	2.14	0.46
1:f:388:ARG:NH2	1:g:562:GLU:HG3	2.30	0.46
1:f:526:ASP:OD1	1:f:564:ARG:NH1	2.48	0.46
1:g:401:MET:H	1:k:226:ASN:ND2	2.12	0.46
1:j:401:MET:H	1:l:226:ASN:ND2	2.13	0.46
1:j:576:THR:HG22	1:j:590:THR:OG1	2.15	0.46
1:l:652:PRO:HD2	1:n:673:THR:HG21	1.97	0.46
1:o:576:THR:HG22	1:o:590:THR:OG1	2.15	0.46
1:q:351:TYR:HA	1:q:643:GLN:NE2	2.30	0.46
1:q:576:THR:HG22	1:q:590:THR:OG1	2.15	0.46
1:r:337:SER:HA	1:x:318:GLN:HE22	1.80	0.46
1:t:539:ILE:HG12	1:t:557:ILE:HG12	1.96	0.46
1:u:567:ASN:OD1	1:u:604:TRP:HB2	2.16	0.46
1:v:295:TRP:CG	1:v:611:LEU:HD13	2.50	0.46
1:x:295:TRP:CG	1:x:611:LEU:HD13	2.50	0.46
1:x:583:ASN:OD1	1:x:586:ALA:N	2.40	0.46
1:y:576:THR:HG22	1:y:590:THR:OG1	2.15	0.46
1:z:549:ASN:HD21	1:2:445:ASN:HD22	1.61	0.46
1:1:223:SER:HB2	1:1:316:ASN:HD21	1.78	0.46
1:1:562:GLU:HG3	1:2:388:ARG:NH2	2.30	0.46
1:1:576:THR:HG22	1:1:590:THR:OG1	2.15	0.46
1:2:576:THR:HG22	1:2:590:THR:OG1	2.15	0.46
1:3:539:ILE:HG12	1:3:557:ILE:HG12	1.96	0.46
1:3:579:ASN:OD1	1:3:589:THR:OG1	2.23	0.46
1:5:576:THR:HG22	1:5:590:THR:OG1	2.15	0.46
1:7:267:ASN:HA	1:7:270:HIS:HD2	1.79	0.46
1:7:583:ASN:OD1	1:7:586:ALA:N	2.40	0.46
1:D:337:SER:HA	1:E:318:GLN:HE22	1.80	0.46
1:D:401:MET:H	1:E:226:ASN:ND2	2.13	0.46
1:D:576:THR:HG22	1:D:590:THR:OG1	2.15	0.46
1:F:300:ASN:O	1:F:729:LEU:HD21	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:539:ILE:HG12	1:G:557:ILE:HG12	1.96	0.46
1:H:526:ASP:OD1	1:H:564:ARG:NH1	2.48	0.46
1:H:549:ASN:HD21	1:Y:445:ASN:HD22	1.61	0.46
1:H:551:ASP:CG	1:Y:457:ARG:HH21	2.24	0.46
1:I:567:ASN:OD1	1:I:604:TRP:HB2	2.16	0.46
1:J:526:ASP:OD1	1:J:564:ARG:NH1	2.48	0.46
1:J:576:THR:HG22	1:J:590:THR:OG1	2.15	0.46
1:M:300:ASN:O	1:M:729:LEU:HD21	2.15	0.46
1:M:401:MET:H	1:c:226:ASN:ND2	2.12	0.46
1:M:652:PRO:HD2	1:c:673:THR:HG21	1.97	0.46
1:N:673:THR:HG21	1:m:652:PRO:HD2	1.97	0.46
1:Q:295:TRP:CG	1:Q:611:LEU:HD13	2.50	0.46
1:R:295:TRP:CG	1:R:611:LEU:HD13	2.50	0.46
1:R:576:THR:HG22	1:R:590:THR:OG1	2.15	0.46
1:T:457:ARG:HH21	1:d:551:ASP:CG	2.23	0.46
1:T:526:ASP:OD1	1:T:564:ARG:NH1	2.48	0.46
1:U:673:THR:HG21	1:e:652:PRO:HD2	1.97	0.46
1:V:562:GLU:HG3	1:e:388:ARG:NH2	2.30	0.46
1:X:351:TYR:HA	1:X:643:GLN:NE2	2.30	0.46
1:Z:652:PRO:HD2	1:a:673:THR:HG21	1.97	0.46
1:c:388:ARG:NH2	1:p:562:GLU:HG3	2.30	0.46
1:c:457:ARG:HH21	1:o:551:ASP:CG	2.23	0.46
1:c:652:PRO:HD2	1:s:673:THR:HG21	1.97	0.46
1:f:218:ASP:HB3	1:f:222:ASN:HB2	1.97	0.46
1:g:388:ARG:NH2	1:h:562:GLU:HG3	2.30	0.46
1:g:539:ILE:HG12	1:g:557:ILE:HG12	1.96	0.46
1:h:300:ASN:O	1:h:729:LEU:HD21	2.15	0.46
1:i:388:ARG:NH2	1:k:562:GLU:HG3	2.29	0.46
1:k:576:THR:HG22	1:k:590:THR:OG1	2.15	0.46
1:m:318:GLN:HE22	1:s:337:SER:HA	1.80	0.46
1:m:576:THR:HG22	1:m:590:THR:OG1	2.15	0.46
1:n:218:ASP:HB3	1:n:222:ASN:HB2	1.97	0.46
1:o:267:ASN:HA	1:o:270:HIS:HD2	1.79	0.46
1:p:351:TYR:HA	1:p:643:GLN:NE2	2.30	0.46
1:p:567:ASN:OD1	1:p:604:TRP:HB2	2.16	0.46
1:q:562:GLU:HG3	1:r:388:ARG:NH2	2.30	0.46
1:t:401:MET:H	1:y:226:ASN:ND2	2.12	0.46
1:u:526:ASP:OD1	1:u:564:ARG:NH1	2.48	0.46
1:w:577:VAL:O	1:w:591:GLY:N	2.46	0.46
1:x:576:THR:HG22	1:x:590:THR:OG1	2.15	0.46
1:y:300:ASN:O	1:y:729:LEU:HD21	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:526:ASP:OD1	1:1:564:ARG:NH1	2.48	0.46
1:2:526:ASP:OD1	1:2:564:ARG:NH1	2.48	0.46
1:5:351:TYR:HA	1:5:643:GLN:NE2	2.30	0.46
1:5:388:ARG:NH2	1:7:562:GLU:HG3	2.29	0.46
1:A:295:TRP:CG	1:A:611:LEU:HD13	2.50	0.46
1:A:388:ARG:NH2	1:I:562:GLU:HG3	2.30	0.46
1:B:223:SER:HB2	1:B:316:ASN:HD21	1.78	0.46
1:E:218:ASP:HB3	1:E:222:ASN:HB2	1.97	0.46
1:E:300:ASN:O	1:E:729:LEU:HD21	2.15	0.46
1:H:351:TYR:HA	1:H:643:GLN:NE2	2.30	0.46
1:J:295:TRP:CG	1:J:611:LEU:HD13	2.50	0.46
1:L:576:THR:HG22	1:L:590:THR:OG1	2.15	0.46
1:Q:576:THR:HG22	1:Q:590:THR:OG1	2.15	0.46
1:R:218:ASP:HB3	1:R:222:ASN:HB2	1.97	0.46
1:R:562:GLU:HG3	1:S:388:ARG:NH2	2.30	0.46
1:R:579:ASN:OD1	1:R:589:THR:OG1	2.23	0.46
1:R:652:PRO:HD2	1:V:673:THR:HG21	1.97	0.46
1:S:562:GLU:HG3	1:U:388:ARG:NH2	2.30	0.46
1:T:562:GLU:HG3	1:d:388:ARG:NH2	2.30	0.46
1:V:351:TYR:HA	1:V:643:GLN:NE2	2.30	0.46
1:V:526:ASP:OD1	1:V:564:ARG:NH1	2.48	0.46
1:V:567:ASN:OD1	1:V:604:TRP:HB2	2.16	0.46
1:Y:267:ASN:HA	1:Y:270:HIS:HD2	1.79	0.46
1:b:218:ASP:HB3	1:b:222:ASN:HB2	1.97	0.46
1:b:526:ASP:OD1	1:b:564:ARG:NH1	2.48	0.46
1:c:567:ASN:OD1	1:c:604:TRP:HB2	2.16	0.46
1:d:218:ASP:HB3	1:d:222:ASN:HB2	1.97	0.46
1:h:576:THR:HG22	1:h:590:THR:OG1	2.15	0.46
1:l:295:TRP:CG	1:l:611:LEU:HD13	2.50	0.46
1:l:300:ASN:O	1:l:729:LEU:HD21	2.15	0.46
1:l:526:ASP:OD1	1:l:564:ARG:NH1	2.48	0.46
1:l:583:ASN:OD1	1:l:586:ALA:N	2.40	0.46
1:m:457:ARG:HH21	1:n:551:ASP:CG	2.23	0.46
1:m:526:ASP:OD1	1:m:564:ARG:NH1	2.48	0.46
1:m:562:GLU:HG3	1:n:388:ARG:NH2	2.30	0.46
1:o:351:TYR:HA	1:o:643:GLN:NE2	2.30	0.46
1:p:526:ASP:OD1	1:p:564:ARG:NH1	2.48	0.46
1:p:673:THR:HG21	1:q:652:PRO:HD2	1.97	0.46
1:q:218:ASP:HB3	1:q:222:ASN:HB2	1.97	0.46
1:q:295:TRP:CG	1:q:611:LEU:HD13	2.50	0.46
1:r:539:ILE:HG12	1:r:557:ILE:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:576:THR:HG22	1:s:590:THR:OG1	2.15	0.46
1:t:561:GLU:OE2	1:5:702:TYR:OH	2.29	0.46
1:u:318:GLN:HE22	1:2:337:SER:HA	1.80	0.46
1:u:351:TYR:HA	1:u:643:GLN:NE2	2.30	0.46
1:u:457:ARG:HH21	1:v:551:ASP:CG	2.23	0.46
1:v:567:ASN:OD1	1:v:604:TRP:HB2	2.16	0.46
1:w:300:ASN:O	1:w:729:LEU:HD21	2.15	0.46
1:w:576:THR:HG22	1:w:590:THR:OG1	2.15	0.46
1:z:576:THR:HG22	1:z:590:THR:OG1	2.15	0.46
1:3:673:THR:HG21	1:8:652:PRO:HD2	1.97	0.46
1:5:526:ASP:OD1	1:5:564:ARG:NH1	2.48	0.46
1:5:551:ASP:CG	1:7:457:ARG:HH21	2.24	0.46
1:6:567:ASN:OD1	1:6:604:TRP:HB2	2.16	0.46
1:7:579:ASN:OD1	1:7:589:THR:OG1	2.23	0.46
1:A:300:ASN:O	1:A:729:LEU:HD21	2.15	0.46
1:A:551:ASP:CG	1:I:457:ARG:HH21	2.23	0.46
1:A:567:ASN:OD1	1:A:604:TRP:HB2	2.16	0.46
1:C:351:TYR:HA	1:C:643:GLN:NE2	2.30	0.46
1:D:526:ASP:OD1	1:D:564:ARG:NH1	2.48	0.46
1:E:577:VAL:O	1:E:591:GLY:N	2.46	0.46
1:G:351:TYR:HA	1:G:643:GLN:NE2	2.30	0.46
1:I:251:TYR:OH	1:I:371:VAL:O	2.26	0.46
1:I:351:TYR:HA	1:I:643:GLN:NE2	2.30	0.46
1:M:576:THR:HG22	1:M:590:THR:OG1	2.15	0.46
1:M:673:THR:HG21	1:N:652:PRO:HD2	1.97	0.46
1:O:295:TRP:CG	1:O:611:LEU:HD13	2.50	0.46
1:O:300:ASN:O	1:O:729:LEU:HD21	2.15	0.46
1:O:318:GLN:HE22	1:P:337:SER:HA	1.80	0.46
1:O:337:SER:HA	1:d:318:GLN:HE22	1.81	0.46
1:O:576:THR:HG22	1:O:590:THR:OG1	2.15	0.46
1:S:300:ASN:O	1:S:729:LEU:HD21	2.15	0.46
1:T:576:THR:HG22	1:T:590:THR:OG1	2.15	0.46
1:W:567:ASN:OD1	1:W:604:TRP:HB2	2.16	0.46
1:X:218:ASP:HB3	1:X:222:ASN:HB2	1.97	0.46
1:a:576:THR:HG22	1:a:590:THR:OG1	2.15	0.46
1:f:295:TRP:CG	1:f:611:LEU:HD13	2.50	0.46
1:g:351:TYR:HA	1:g:643:GLN:NE2	2.30	0.46
1:g:673:THR:HG21	1:l:652:PRO:HD2	1.97	0.46
1:k:337:SER:HA	1:w:318:GLN:HE22	1.80	0.46
1:l:337:SER:HA	1:n:318:GLN:HE22	1.81	0.46
1:n:579:ASN:OD1	1:n:589:THR:OG1	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:716:GLY:HA2	1:7:256:TYR:O	2.13	0.46
1:q:388:ARG:NH2	1:s:562:GLU:HG3	2.30	0.46
1:t:351:TYR:HA	1:t:643:GLN:NE2	2.30	0.46
1:t:388:ARG:NH2	1:v:562:GLU:HG3	2.30	0.46
1:w:218:ASP:HB3	1:w:222:ASN:HB2	1.98	0.46
1:z:388:ARG:NH2	1:2:562:GLU:HG3	2.30	0.46
1:2:295:TRP:CG	1:2:611:LEU:HD13	2.50	0.46
1:2:300:ASN:O	1:2:729:LEU:HD21	2.15	0.46
1:B:285:ARG:HD2	1:L:440:TYR:CE2	2.51	0.46
1:B:652:PRO:HD2	1:C:673:THR:HG21	1.97	0.46
1:C:401:MET:H	1:D:226:ASN:ND2	2.13	0.46
1:C:576:THR:HG22	1:C:590:THR:OG1	2.15	0.46
1:E:576:THR:HG22	1:E:590:THR:OG1	2.15	0.46
1:G:576:THR:HG22	1:G:590:THR:OG1	2.15	0.46
1:H:337:SER:HA	1:Z:318:GLN:HE22	1.80	0.46
1:H:388:ARG:NH2	1:Y:562:GLU:HG3	2.29	0.46
1:I:318:GLN:HE22	1:J:337:SER:HA	1.80	0.46
1:I:526:ASP:OD1	1:I:564:ARG:NH1	2.48	0.46
1:K:457:ARG:HH21	1:a:551:ASP:CG	2.23	0.46
1:L:218:ASP:HB3	1:L:222:ASN:HB2	1.97	0.46
1:L:567:ASN:OD1	1:L:604:TRP:HB2	2.16	0.46
1:N:576:THR:HG22	1:N:590:THR:OG1	2.15	0.46
1:O:351:TYR:HA	1:O:643:GLN:NE2	2.30	0.46
1:O:583:ASN:OD1	1:O:586:ALA:N	2.40	0.46
1:R:300:ASN:O	1:R:729:LEU:HD21	2.15	0.46
1:S:318:GLN:HE22	1:d:337:SER:HA	1.81	0.46
1:T:711:THR:HG22	1:T:712:VAL:N	2.31	0.46
1:U:318:GLN:HE22	1:e:337:SER:HA	1.81	0.46
1:X:337:SER:HA	1:f:318:GLN:HE22	1.80	0.46
1:X:379:LEU:HD13	1:e:426:SER:C	2.40	0.46
1:Y:579:ASN:OD1	1:Y:589:THR:OG1	2.23	0.46
1:Z:285:ARG:HD2	1:3:440:TYR:CE2	2.51	0.46
1:Z:576:THR:HG22	1:Z:590:THR:OG1	2.15	0.46
1:a:440:TYR:CE2	1:8:285:ARG:HD2	2.51	0.46
1:b:295:TRP:CG	1:b:611:LEU:HD13	2.50	0.46
1:c:337:SER:HA	1:s:318:GLN:HE22	1.81	0.46
1:d:351:TYR:HA	1:d:643:GLN:NE2	2.30	0.46
1:e:567:ASN:OD1	1:e:604:TRP:HB2	2.16	0.46
1:f:300:ASN:O	1:f:729:LEU:HD21	2.15	0.46
1:f:440:TYR:CE2	1:h:285:ARG:HD2	2.51	0.46
1:g:318:GLN:HE22	1:1:337:SER:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:576:THR:HG22	1:i:590:THR:OG1	2.15	0.46
1:j:337:SER:HA	1:l:318:GLN:HE22	1.80	0.46
1:l:351:TYR:HA	1:l:643:GLN:NE2	2.30	0.46
1:l:576:THR:HG22	1:l:590:THR:OG1	2.15	0.46
1:n:337:SER:HA	1:r:318:GLN:HE22	1.81	0.46
1:o:218:ASP:HB3	1:o:222:ASN:HB2	1.97	0.46
1:o:457:ARG:HH21	1:p:551:ASP:CG	2.23	0.46
1:p:561:GLU:OE2	1:s:702:TYR:OH	2.29	0.46
1:r:300:ASN:O	1:r:729:LEU:HD21	2.15	0.46
1:r:562:GLU:HG3	1:s:388:ARG:NH2	2.30	0.46
1:t:576:THR:HG22	1:t:590:THR:OG1	2.15	0.46
1:v:300:ASN:O	1:v:729:LEU:HD21	2.15	0.46
1:x:457:ARG:HH21	1:y:551:ASP:CG	2.23	0.46
1:y:567:ASN:OD1	1:y:604:TRP:HB2	2.16	0.46
1:z:218:ASP:HB3	1:z:222:ASN:HB2	1.97	0.46
1:z:440:TYR:CE2	1:1:285:ARG:HD2	2.51	0.46
1:z:567:ASN:OD1	1:z:604:TRP:HB2	2.16	0.46
1:5:337:SER:HA	1:8:318:GLN:HE22	1.80	0.46
1:5:549:ASN:HD21	1:7:445:ASN:HD22	1.61	0.46
1:6:218:ASP:HB3	1:6:222:ASN:HB2	1.97	0.46
1:6:457:ARG:HH21	1:7:551:ASP:CG	2.24	0.46
1:B:388:ARG:NH2	1:L:562:GLU:HG3	2.30	0.46
1:C:711:THR:HG22	1:C:712:VAL:N	2.31	0.46
1:D:711:THR:HG22	1:D:712:VAL:N	2.31	0.46
1:F:226:ASN:ND2	1:G:401:MET:H	2.13	0.46
1:F:567:ASN:OD1	1:F:604:TRP:HB2	2.16	0.46
1:J:562:GLU:HG3	1:L:388:ARG:NH2	2.30	0.46
1:K:583:ASN:OD1	1:K:586:ALA:N	2.40	0.46
1:L:526:ASP:OD1	1:L:564:ARG:NH1	2.48	0.46
1:M:711:THR:HG22	1:M:712:VAL:N	2.31	0.46
1:N:577:VAL:O	1:N:591:GLY:N	2.46	0.46
1:Q:300:ASN:O	1:Q:729:LEU:HD21	2.15	0.46
1:R:379:LEU:HD13	1:U:426:SER:C	2.41	0.46
1:R:388:ARG:NH2	1:U:562:GLU:HG3	2.30	0.46
1:U:226:ASN:ND2	1:e:401:MET:H	2.13	0.46
1:W:218:ASP:HB3	1:W:222:ASN:HB2	1.97	0.46
1:W:351:TYR:HA	1:W:643:GLN:NE2	2.30	0.46
1:Y:576:THR:HG22	1:Y:590:THR:OG1	2.15	0.46
1:Z:351:TYR:HA	1:Z:643:GLN:NE2	2.30	0.46
1:b:300:ASN:O	1:b:729:LEU:HD21	2.15	0.46
1:b:673:THR:HG21	1:o:652:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:401:MET:H	1:s:226:ASN:ND2	2.13	0.46
1:d:526:ASP:OD1	1:d:564:ARG:NH1	2.48	0.46
1:e:711:THR:HG22	1:e:712:VAL:N	2.31	0.46
1:g:711:THR:HG22	1:g:712:VAL:N	2.31	0.46
1:h:673:THR:HG21	1:i:652:PRO:HD2	1.97	0.46
1:j:426:SER:C	1:k:379:LEU:HD13	2.41	0.46
1:k:526:ASP:OD1	1:k:564:ARG:NH1	2.48	0.46
1:k:711:THR:HG22	1:k:712:VAL:N	2.31	0.46
1:m:711:THR:HG22	1:m:712:VAL:N	2.31	0.46
1:n:351:TYR:HA	1:n:643:GLN:NE2	2.30	0.46
1:q:300:ASN:O	1:q:729:LEU:HD21	2.15	0.46
1:q:379:LEU:HD13	1:s:426:SER:C	2.41	0.46
1:t:526:ASP:OD1	1:t:564:ARG:NH1	2.48	0.46
1:t:652:PRO:HD2	1:y:673:THR:HG21	1.97	0.46
1:w:388:ARG:NH2	1:y:562:GLU:HG3	2.30	0.46
1:1:351:TYR:HA	1:1:643:GLN:NE2	2.30	0.46
1:3:351:TYR:HA	1:3:643:GLN:NE2	2.30	0.46
1:3:551:ASP:CG	1:4:457:ARG:HH21	2.23	0.46
1:3:576:THR:HG22	1:3:590:THR:OG1	2.15	0.46
1:3:583:ASN:OD1	1:3:586:ALA:N	2.40	0.46
1:4:583:ASN:OD1	1:4:586:ALA:N	2.40	0.46
1:6:351:TYR:HA	1:6:643:GLN:NE2	2.30	0.46
1:B:267:ASN:HA	1:B:270:HIS:HD2	1.79	0.46
1:B:351:TYR:HA	1:B:643:GLN:NE2	2.30	0.46
1:D:379:LEU:HD13	1:P:426:SER:C	2.41	0.46
1:F:551:ASP:CG	1:Q:457:ARG:HH21	2.23	0.46
1:F:673:THR:HG21	1:G:652:PRO:HD2	1.97	0.46
1:G:440:TYR:CE2	1:I:285:ARG:HD2	2.51	0.46
1:G:526:ASP:OD1	1:G:564:ARG:NH1	2.48	0.46
1:J:300:ASN:O	1:J:729:LEU:HD21	2.15	0.46
1:S:711:THR:HG22	1:S:712:VAL:N	2.31	0.46
1:W:457:ARG:HH21	1:Y:551:ASP:CG	2.24	0.46
1:W:526:ASP:OD1	1:W:564:ARG:NH1	2.48	0.46
1:a:300:ASN:O	1:a:729:LEU:HD21	2.15	0.46
1:a:351:TYR:HA	1:a:643:GLN:NE2	2.30	0.46
1:a:562:GLU:HG3	1:8:388:ARG:NH2	2.30	0.46
1:a:711:THR:HG22	1:a:712:VAL:N	2.31	0.46
1:c:711:THR:HG22	1:c:712:VAL:N	2.31	0.46
1:g:576:THR:HG22	1:g:590:THR:OG1	2.15	0.46
1:g:622:THR:HB	1:h:604:TRP:O	2.16	0.46
1:h:711:THR:HG22	1:h:712:VAL:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:300:ASN:O	1:i:729:LEU:HD21	2.15	0.46
1:i:577:VAL:O	1:i:591:GLY:N	2.46	0.46
1:m:440:TYR:CE2	1:n:285:ARG:HD2	2.51	0.46
1:p:337:SER:HA	1:6:318:GLN:HE22	1.80	0.46
1:r:711:THR:HG22	1:r:712:VAL:N	2.31	0.46
1:s:300:ASN:O	1:s:729:LEU:HD21	2.15	0.46
1:t:379:LEU:HD13	1:v:426:SER:C	2.41	0.46
1:t:567:ASN:OD1	1:t:604:TRP:HB2	2.16	0.46
1:u:218:ASP:HB3	1:u:222:ASN:HB2	1.97	0.46
1:x:300:ASN:O	1:x:729:LEU:HD21	2.15	0.46
1:z:562:GLU:HG3	1:1:388:ARG:NH2	2.30	0.46
1:3:388:ARG:NH2	1:4:562:GLU:HG3	2.30	0.46
1:3:711:THR:HG22	1:3:712:VAL:N	2.31	0.46
1:8:576:THR:HG22	1:8:590:THR:OG1	2.15	0.46
1:A:337:SER:HA	1:B:318:GLN:HE22	1.80	0.46
1:B:337:SER:HA	1:C:318:GLN:HE22	1.80	0.46
1:B:440:TYR:CE2	1:J:285:ARG:HD2	2.51	0.46
1:D:300:ASN:O	1:D:729:LEU:HD21	2.15	0.46
1:D:652:PRO:HD2	1:E:673:THR:HG21	1.97	0.46
1:E:388:ARG:NH2	1:F:562:GLU:HG3	2.30	0.46
1:E:711:THR:HG22	1:E:712:VAL:N	2.31	0.46
1:G:457:ARG:HH21	1:I:551:ASP:CG	2.24	0.46
1:G:567:ASN:OD1	1:G:604:TRP:HB2	2.16	0.46
1:H:426:SER:C	1:W:379:LEU:HD13	2.41	0.46
1:I:218:ASP:HB3	1:I:222:ASN:HB2	1.98	0.46
1:I:300:ASN:O	1:I:729:LEU:HD21	2.15	0.46
1:J:711:THR:HG22	1:J:712:VAL:N	2.31	0.46
1:K:562:GLU:HG3	1:a:388:ARG:NH2	2.30	0.46
1:L:226:ASN:ND2	1:b:401:MET:H	2.13	0.46
1:O:457:ARG:HH21	1:m:551:ASP:CG	2.24	0.46
1:P:673:THR:HG21	1:Q:652:PRO:HD2	1.97	0.46
1:Q:711:THR:HG22	1:Q:712:VAL:N	2.31	0.46
1:R:285:ARG:HD2	1:U:440:TYR:CE2	2.51	0.46
1:R:337:SER:HA	1:V:318:GLN:HE22	1.80	0.46
1:T:440:TYR:CE2	1:d:285:ARG:HD2	2.51	0.46
1:T:551:ASP:CG	1:l:457:ARG:HH21	2.24	0.46
1:T:577:VAL:O	1:T:591:GLY:N	2.46	0.46
1:U:300:ASN:O	1:U:729:LEU:HD21	2.15	0.46
1:U:702:TYR:OH	1:V:561:GLU:OE2	2.29	0.46
1:c:426:SER:C	1:o:379:LEU:HD13	2.41	0.46
1:e:218:ASP:HB3	1:e:222:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:673:THR:HG21	1:x:652:PRO:HD2	1.97	0.46
1:n:526:ASP:OD1	1:n:564:ARG:NH1	2.48	0.46
1:n:652:PRO:HD2	1:r:673:THR:HG21	1.97	0.46
1:p:318:GLN:HE22	1:q:337:SER:HA	1.80	0.46
1:p:576:THR:HG22	1:p:590:THR:OG1	2.15	0.46
1:q:285:ARG:HD2	1:s:440:TYR:CE2	2.51	0.46
1:r:567:ASN:OD1	1:r:604:TRP:HB2	2.16	0.46
1:u:300:ASN:O	1:u:729:LEU:HD21	2.15	0.46
1:u:337:SER:HA	1:5:318:GLN:HE22	1.81	0.46
1:v:576:THR:HG22	1:v:590:THR:OG1	2.15	0.46
1:x:351:TYR:HA	1:x:643:GLN:NE2	2.30	0.46
1:x:562:GLU:HG3	1:y:388:ARG:NH2	2.30	0.46
1:x:711:THR:HG22	1:x:712:VAL:N	2.31	0.46
1:z:526:ASP:OD1	1:z:564:ARG:NH1	2.48	0.46
1:2:711:THR:HG22	1:2:712:VAL:N	2.31	0.46
1:5:285:ARG:HD2	1:7:440:TYR:CE2	2.51	0.46
1:5:426:SER:C	1:6:379:LEU:HD13	2.41	0.46
1:6:526:ASP:OD1	1:6:564:ARG:NH1	2.48	0.46
1:7:576:THR:HG22	1:7:590:THR:OG1	2.15	0.46
1:8:351:TYR:HA	1:8:643:GLN:NE2	2.30	0.46
1:A:562:GLU:HG3	1:G:388:ARG:NH2	2.31	0.46
1:A:576:THR:HG22	1:A:590:THR:OG1	2.15	0.46
1:B:711:THR:HG22	1:B:712:VAL:N	2.31	0.46
1:C:251:TYR:OH	1:C:371:VAL:O	2.26	0.46
1:D:218:ASP:HB3	1:D:222:ASN:HB2	1.97	0.46
1:F:285:ARG:HD2	1:Q:440:TYR:CE2	2.51	0.46
1:H:285:ARG:HD2	1:Y:440:TYR:CE2	2.51	0.46
1:H:318:GLN:HE22	1:I:337:SER:HA	1.81	0.46
1:J:710:PHE:CE2	1:J:724:ILE:HD11	2.51	0.46
1:K:300:ASN:O	1:K:729:LEU:HD21	2.15	0.46
1:N:300:ASN:O	1:N:729:LEU:HD21	2.15	0.46
1:N:426:SER:C	1:P:379:LEU:HD13	2.41	0.46
1:O:218:ASP:HB3	1:O:222:ASN:HB2	1.97	0.46
1:O:379:LEU:HD13	1:n:426:SER:C	2.41	0.46
1:R:426:SER:C	1:S:379:LEU:HD13	2.41	0.46
1:S:218:ASP:HB3	1:S:222:ASN:HB2	1.97	0.46
1:S:351:TYR:HA	1:S:643:GLN:NE2	2.30	0.46
1:S:567:ASN:OD1	1:S:604:TRP:HB2	2.16	0.46
1:S:673:THR:HG21	1:d:652:PRO:HD2	1.97	0.46
1:T:567:ASN:OD1	1:T:604:TRP:HB2	2.16	0.46
1:V:337:SER:HA	1:W:318:GLN:HE22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:710:PHE:CE2	1:Y:724:ILE:HD11	2.51	0.46
1:Y:711:THR:HG22	1:Y:712:VAL:N	2.31	0.46
1:Z:300:ASN:O	1:Z:729:LEU:HD21	2.15	0.46
1:Z:388:ARG:NH2	1:3:562:GLU:HG3	2.30	0.46
1:c:218:ASP:HB3	1:c:222:ASN:HB2	1.97	0.46
1:d:579:ASN:OD1	1:d:589:THR:OG1	2.23	0.46
1:e:300:ASN:O	1:e:729:LEU:HD21	2.15	0.46
1:f:401:MET:H	1:z:226:ASN:ND2	2.13	0.46
1:f:604:TRP:O	1:h:622:THR:HB	2.16	0.46
1:i:426:SER:C	1:j:379:LEU:HD13	2.41	0.46
1:k:218:ASP:HB3	1:k:222:ASN:HB2	1.97	0.46
1:k:300:ASN:O	1:k:729:LEU:HD21	2.15	0.46
1:k:652:PRO:HD2	1:w:673:THR:HG21	1.97	0.46
1:l:218:ASP:HB3	1:l:222:ASN:HB2	1.97	0.46
1:m:577:VAL:O	1:m:591:GLY:N	2.46	0.46
1:q:426:SER:C	1:r:379:LEU:HD13	2.41	0.46
1:r:218:ASP:HB3	1:r:222:ASN:HB2	1.97	0.46
1:w:711:THR:HG22	1:w:712:VAL:N	2.31	0.46
1:x:577:VAL:O	1:x:591:GLY:N	2.46	0.46
1:z:351:TYR:HA	1:z:643:GLN:NE2	2.30	0.46
1:z:711:THR:HG22	1:z:712:VAL:N	2.31	0.46
1:1:267:ASN:HA	1:1:270:HIS:HD2	1.79	0.46
1:1:440:TYR:CE2	1:2:285:ARG:HD2	2.51	0.46
1:2:218:ASP:HB3	1:2:222:ASN:HB2	1.97	0.46
1:2:318:GLN:HE22	1:3:337:SER:HA	1.81	0.46
1:3:300:ASN:O	1:3:729:LEU:HD21	2.15	0.46
1:6:576:THR:HG22	1:6:590:THR:OG1	2.15	0.46
1:C:285:ARG:HD2	1:M:440:TYR:CE2	2.51	0.46
1:C:710:PHE:CE2	1:C:724:ILE:HD11	2.51	0.46
1:D:457:ARG:HH21	1:N:551:ASP:CG	2.24	0.46
1:F:388:ARG:NH2	1:Q:562:GLU:HG3	2.30	0.46
1:G:577:VAL:O	1:G:591:GLY:N	2.46	0.46
1:H:673:THR:HG21	1:I:652:PRO:HD2	1.97	0.46
1:H:711:THR:HG22	1:H:712:VAL:N	2.31	0.46
1:J:318:GLN:HE22	1:a:337:SER:HA	1.81	0.46
1:K:710:PHE:CE2	1:K:724:ILE:HD11	2.51	0.46
1:M:285:ARG:HD2	1:b:440:TYR:CE2	2.51	0.46
1:O:285:ARG:HD2	1:n:440:TYR:CE2	2.51	0.46
1:O:388:ARG:NH2	1:n:562:GLU:HG3	2.30	0.46
1:O:551:ASP:CG	1:n:457:ARG:HH21	2.24	0.46
1:P:567:ASN:OD1	1:P:604:TRP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:577:VAL:O	1:Q:591:GLY:N	2.46	0.46
1:R:567:ASN:OD1	1:R:604:TRP:HB2	2.16	0.46
1:V:218:ASP:HB3	1:V:222:ASN:HB2	1.97	0.46
1:V:377:LEU:HD13	1:X:431:ARG:HD2	1.98	0.46
1:V:576:THR:HG22	1:V:590:THR:OG1	2.15	0.46
1:W:300:ASN:O	1:W:729:LEU:HD21	2.15	0.46
1:Z:379:LEU:HD13	1:3:426:SER:C	2.41	0.46
1:a:295:TRP:CG	1:a:611:LEU:HD13	2.50	0.46
1:a:426:SER:C	1:8:379:LEU:HD13	2.41	0.46
1:a:577:VAL:O	1:a:591:GLY:N	2.46	0.46
1:a:583:ASN:OD1	1:a:586:ALA:N	2.40	0.46
1:c:300:ASN:O	1:c:729:LEU:HD21	2.15	0.46
1:d:426:SER:C	1:l:379:LEU:HD13	2.41	0.46
1:d:457:ARG:HH21	1:l:551:ASP:CG	2.24	0.46
1:e:673:THR:HG21	1:h:652:PRO:HD2	1.98	0.46
1:g:710:PHE:CE2	1:g:724:ILE:HD11	2.51	0.46
1:i:551:ASP:CG	1:k:457:ARG:HH21	2.24	0.46
1:k:351:TYR:HA	1:k:643:GLN:NE2	2.30	0.46
1:m:567:ASN:OD1	1:m:604:TRP:HB2	2.16	0.46
1:o:426:SER:C	1:p:379:LEU:HD13	2.41	0.46
1:o:440:TYR:CE2	1:p:285:ARG:HD2	2.51	0.46
1:p:218:ASP:HB3	1:p:222:ASN:HB2	1.98	0.46
1:q:567:ASN:OD1	1:q:604:TRP:HB2	2.16	0.46
1:t:218:ASP:HB3	1:t:222:ASN:HB2	1.97	0.46
1:t:426:SER:C	1:u:379:LEU:HD13	2.41	0.46
1:t:440:TYR:CE2	1:u:285:ARG:HD2	2.52	0.46
1:t:457:ARG:HH21	1:u:551:ASP:CG	2.24	0.46
1:t:577:VAL:O	1:t:591:GLY:N	2.46	0.46
1:u:652:PRO:HD2	1:5:673:THR:HG21	1.97	0.46
1:1:711:THR:HG22	1:1:712:VAL:N	2.31	0.46
1:2:702:TYR:OH	1:4:561:GLU:OE2	2.29	0.46
1:2:710:PHE:CE2	1:2:724:ILE:HD11	2.51	0.46
1:3:285:ARG:HD2	1:4:440:TYR:CE2	2.51	0.46
1:3:567:ASN:OD1	1:3:604:TRP:HB2	2.16	0.46
1:4:300:ASN:O	1:4:729:LEU:HD21	2.15	0.46
1:4:710:PHE:CE2	1:4:724:ILE:HD11	2.51	0.46
1:4:711:THR:HG22	1:4:712:VAL:N	2.31	0.46
1:6:300:ASN:O	1:6:729:LEU:HD21	2.15	0.46
1:7:351:TYR:HA	1:7:643:GLN:NE2	2.30	0.46
1:7:710:PHE:CE2	1:7:724:ILE:HD11	2.51	0.46
1:7:711:THR:HG22	1:7:712:VAL:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:567:ASN:OD1	1:8:604:TRP:HB2	2.16	0.46
1:A:457:ARG:HH21	1:G:551:ASP:CG	2.24	0.45
1:E:251:TYR:OH	1:E:371:VAL:O	2.26	0.45
1:E:426:SER:C	1:Q:379:LEU:HD13	2.41	0.45
1:E:457:ARG:HH21	1:Q:551:ASP:CG	2.24	0.45
1:E:567:ASN:OD1	1:E:604:TRP:HB2	2.16	0.45
1:G:218:ASP:HB3	1:G:222:ASN:HB2	1.98	0.45
1:H:440:TYR:CE2	1:W:285:ARG:HD2	2.51	0.45
1:J:218:ASP:HB3	1:J:222:ASN:HB2	1.97	0.45
1:J:457:ARG:HH21	1:L:551:ASP:CG	2.24	0.45
1:J:702:TYR:OH	1:K:561:GLU:OE2	2.29	0.45
1:K:440:TYR:CE2	1:a:285:ARG:HD2	2.51	0.45
1:K:673:THR:HG21	1:L:652:PRO:HD2	1.97	0.45
1:K:711:THR:HG22	1:K:712:VAL:N	2.31	0.45
1:L:318:GLN:HE22	1:b:337:SER:HA	1.81	0.45
1:L:351:TYR:HA	1:L:643:GLN:NE2	2.30	0.45
1:L:710:PHE:CE2	1:L:724:ILE:HD11	2.52	0.45
1:L:711:THR:HG22	1:L:712:VAL:N	2.31	0.45
1:N:318:GLN:HE22	1:m:337:SER:HA	1.81	0.45
1:N:711:THR:HG22	1:N:712:VAL:N	2.31	0.45
1:P:318:GLN:HE22	1:Q:337:SER:HA	1.81	0.45
1:Q:351:TYR:HA	1:Q:643:GLN:NE2	2.30	0.45
1:Q:710:PHE:CE2	1:Q:724:ILE:HD11	2.51	0.45
1:U:567:ASN:OD1	1:U:604:TRP:HB2	2.16	0.45
1:V:622:THR:HB	1:X:604:TRP:O	2.16	0.45
1:V:710:PHE:CE2	1:V:724:ILE:HD11	2.51	0.45
1:W:440:TYR:CE2	1:Y:285:ARG:HD2	2.51	0.45
1:W:576:THR:HG22	1:W:590:THR:OG1	2.15	0.45
1:X:567:ASN:OD1	1:X:604:TRP:HB2	2.16	0.45
1:X:652:PRO:HD2	1:f:673:THR:HG21	1.98	0.45
1:X:711:THR:HG22	1:X:712:VAL:N	2.31	0.45
1:Y:351:TYR:HA	1:Y:643:GLN:NE2	2.30	0.45
1:Z:567:ASN:OD1	1:Z:604:TRP:HB2	2.16	0.45
1:Z:711:THR:HG22	1:Z:712:VAL:N	2.31	0.45
1:a:567:ASN:OD1	1:a:604:TRP:HB2	2.16	0.45
1:b:567:ASN:OD1	1:b:604:TRP:HB2	2.16	0.45
1:b:711:THR:HG22	1:b:712:VAL:N	2.31	0.45
1:d:300:ASN:O	1:d:729:LEU:HD21	2.15	0.45
1:d:440:TYR:CE2	1:l:285:ARG:HD2	2.51	0.45
1:d:562:GLU:HG3	1:l:388:ARG:NH2	2.30	0.45
1:f:337:SER:HA	1:z:318:GLN:HE22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:652:PRO:HD2	1:z:673:THR:HG21	1.97	0.45
1:f:710:PHE:CE2	1:f:724:ILE:HD11	2.51	0.45
1:f:711:THR:HG22	1:f:712:VAL:N	2.31	0.45
1:i:622:THR:HB	1:k:604:TRP:O	2.16	0.45
1:j:567:ASN:OD1	1:j:604:TRP:HB2	2.16	0.45
1:l:711:THR:HG22	1:l:712:VAL:N	2.31	0.45
1:m:673:THR:HG21	1:s:652:PRO:HD2	1.97	0.45
1:n:300:ASN:O	1:n:729:LEU:HD21	2.15	0.45
1:o:711:THR:HG22	1:o:712:VAL:N	2.31	0.45
1:p:710:PHE:CE2	1:p:724:ILE:HD11	2.51	0.45
1:r:351:TYR:HA	1:r:643:GLN:NE2	2.30	0.45
1:s:567:ASN:OD1	1:s:604:TRP:HB2	2.16	0.45
1:t:285:ARG:HD2	1:v:440:TYR:CE2	2.51	0.45
1:t:551:ASP:CG	1:v:457:ARG:HH21	2.24	0.45
1:w:251:TYR:OH	1:w:371:VAL:O	2.26	0.45
1:x:440:TYR:CE2	1:y:285:ARG:HD2	2.51	0.45
1:x:710:PHE:CE2	1:x:724:ILE:HD11	2.51	0.45
1:z:300:ASN:O	1:z:729:LEU:HD21	2.15	0.45
1:z:551:ASP:CG	1:2:457:ARG:HH21	2.24	0.45
1:3:295:TRP:CG	1:3:611:LEU:HD13	2.50	0.45
1:4:577:VAL:O	1:4:591:GLY:N	2.46	0.45
1:5:440:TYR:CE2	1:6:285:ARG:HD2	2.51	0.45
1:5:711:THR:HG22	1:5:712:VAL:N	2.31	0.45
1:6:440:TYR:CE2	1:7:285:ARG:HD2	2.51	0.45
1:8:300:ASN:O	1:8:729:LEU:HD21	2.15	0.45
1:A:440:TYR:CE2	1:G:285:ARG:HD2	2.51	0.45
1:D:351:TYR:HA	1:D:643:GLN:NE2	2.30	0.45
1:D:551:ASP:CG	1:P:457:ARG:HH21	2.24	0.45
1:D:651:VAL:HG12	1:D:668:ILE:HD12	1.99	0.45
1:F:218:ASP:HB3	1:F:222:ASN:HB2	1.97	0.45
1:F:318:GLN:HE22	1:G:337:SER:HA	1.81	0.45
1:G:673:THR:HG21	1:W:652:PRO:HD2	1.97	0.45
1:H:567:ASN:OD1	1:H:604:TRP:HB2	2.16	0.45
1:J:440:TYR:CE2	1:L:285:ARG:HD2	2.51	0.45
1:J:673:THR:HG21	1:a:652:PRO:HD2	1.97	0.45
1:K:218:ASP:HB3	1:K:222:ASN:HB2	1.98	0.45
1:K:337:SER:HA	1:7:318:GLN:HE22	1.81	0.45
1:K:426:SER:C	1:a:379:LEU:HD13	2.42	0.45
1:L:300:ASN:O	1:L:729:LEU:HD21	2.15	0.45
1:L:673:THR:HG21	1:b:652:PRO:HD2	1.97	0.45
1:M:351:TYR:HA	1:M:643:GLN:NE2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:710:PHE:CE2	1:M:724:ILE:HD11	2.51	0.45
1:N:440:TYR:CE2	1:P:285:ARG:HD2	2.51	0.45
1:N:604:TRP:O	1:P:622:THR:HB	2.16	0.45
1:O:426:SER:C	1:m:379:LEU:HD13	2.41	0.45
1:O:440:TYR:CE2	1:m:285:ARG:HD2	2.51	0.45
1:T:285:ARG:HD2	1:l:440:TYR:CE2	2.51	0.45
1:T:379:LEU:HD13	1:l:426:SER:C	2.41	0.45
1:T:673:THR:HG21	1:U:652:PRO:HD2	1.97	0.45
1:U:364:PHE:CE2	1:U:366:ALA:HB3	2.52	0.45
1:V:300:ASN:O	1:V:729:LEU:HD21	2.15	0.45
1:W:604:TRP:O	1:Y:622:THR:HB	2.16	0.45
1:X:364:PHE:CE2	1:X:366:ALA:HB3	2.52	0.45
1:Y:318:GLN:HE22	1:4:337:SER:HA	1.81	0.45
1:Y:567:ASN:OD1	1:Y:604:TRP:HB2	2.16	0.45
1:Z:337:SER:HA	1:a:318:GLN:HE22	1.81	0.45
1:Z:551:ASP:CG	1:3:457:ARG:HH21	2.24	0.45
1:a:457:ARG:HH21	1:8:551:ASP:CG	2.24	0.45
1:b:710:PHE:CE2	1:b:724:ILE:HD11	2.51	0.45
1:c:579:ASN:OD1	1:c:589:THR:OG1	2.23	0.45
1:i:711:THR:HG22	1:i:712:VAL:N	2.31	0.45
1:l:364:PHE:CE2	1:l:366:ALA:HB3	2.52	0.45
1:o:364:PHE:CE2	1:o:366:ALA:HB3	2.52	0.45
1:o:567:ASN:OD1	1:o:604:TRP:HB2	2.16	0.45
1:o:673:THR:HG21	1:7:652:PRO:HD2	1.97	0.45
1:q:318:GLN:HE22	1:y:337:SER:HA	1.81	0.45
1:s:364:PHE:CE2	1:s:366:ALA:HB3	2.52	0.45
1:t:318:GLN:HE22	1:6:337:SER:HA	1.80	0.45
1:t:579:ASN:OD1	1:t:589:THR:OG1	2.23	0.45
1:t:673:THR:HG21	1:6:652:PRO:HD2	1.97	0.45
1:w:285:ARG:HD2	1:y:440:TYR:CE2	2.51	0.45
1:w:426:SER:C	1:x:379:LEU:HD13	2.41	0.45
1:w:457:ARG:HH21	1:x:551:ASP:CG	2.24	0.45
1:w:551:ASP:CG	1:y:457:ARG:HH21	2.24	0.45
1:w:567:ASN:OD1	1:w:604:TRP:HB2	2.16	0.45
1:x:567:ASN:OD1	1:x:604:TRP:HB2	2.16	0.45
1:y:218:ASP:HB3	1:y:222:ASN:HB2	1.97	0.45
1:z:652:PRO:HD2	1:4:673:THR:HG21	1.97	0.45
1:z:710:PHE:CE2	1:z:724:ILE:HD11	2.52	0.45
1:2:673:THR:HG21	1:3:652:PRO:HD2	1.97	0.45
1:3:379:LEU:HD13	1:4:426:SER:C	2.42	0.45
1:7:567:ASN:OD1	1:7:604:TRP:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:218:ASP:HB3	1:8:222:ASN:HB2	1.97	0.45
1:A:379:LEU:HD13	1:I:426:SER:C	2.42	0.45
1:A:426:SER:C	1:G:379:LEU:HD13	2.42	0.45
1:A:651:VAL:HG12	1:A:668:ILE:HD12	1.99	0.45
1:B:426:SER:C	1:J:379:LEU:HD13	2.41	0.45
1:B:551:ASP:CG	1:L:457:ARG:HH21	2.24	0.45
1:B:567:ASN:OD1	1:B:604:TRP:HB2	2.16	0.45
1:B:651:VAL:HG12	1:B:668:ILE:HD12	1.99	0.45
1:B:710:PHE:CE2	1:B:724:ILE:HD11	2.51	0.45
1:C:651:VAL:HG12	1:C:668:ILE:HD12	1.99	0.45
1:D:604:TRP:O	1:N:622:THR:HB	2.16	0.45
1:E:551:ASP:CG	1:F:457:ARG:HH21	2.24	0.45
1:F:337:SER:HA	1:R:318:GLN:HE22	1.81	0.45
1:F:379:LEU:HD13	1:Q:426:SER:C	2.42	0.45
1:G:426:SER:C	1:I:379:LEU:HD13	2.41	0.45
1:G:711:THR:HG22	1:G:712:VAL:N	2.31	0.45
1:H:218:ASP:HB3	1:H:222:ASN:HB2	1.98	0.45
1:H:401:MET:H	1:Z:226:ASN:ND2	2.13	0.45
1:J:567:ASN:OD1	1:J:604:TRP:HB2	2.16	0.45
1:K:401:MET:H	1:7:226:ASN:ND2	2.12	0.45
1:M:218:ASP:HB3	1:M:222:ASN:HB2	1.97	0.45
1:M:337:SER:HA	1:c:318:GLN:HE22	1.81	0.45
1:N:457:ARG:HH21	1:P:551:ASP:CG	2.24	0.45
1:O:364:PHE:CE2	1:O:366:ALA:HB3	2.52	0.45
1:O:711:THR:HG22	1:O:712:VAL:N	2.31	0.45
1:P:711:THR:HG22	1:P:712:VAL:N	2.31	0.45
1:Q:364:PHE:CE2	1:Q:366:ALA:HB3	2.52	0.45
1:Q:567:ASN:OD1	1:Q:604:TRP:HB2	2.16	0.45
1:S:364:PHE:CE2	1:S:366:ALA:HB3	2.52	0.45
1:T:337:SER:HA	1:i:318:GLN:HE22	1.81	0.45
1:W:710:PHE:CE2	1:W:724:ILE:HD11	2.51	0.45
1:Z:224:SER:HG	1:Z:316:ASN:H	1.63	0.45
1:e:710:PHE:CE2	1:e:724:ILE:HD11	2.51	0.45
1:f:567:ASN:OD1	1:f:604:TRP:HB2	2.16	0.45
1:g:651:VAL:HG12	1:g:668:ILE:HD12	1.99	0.45
1:h:218:ASP:HB3	1:h:222:ASN:HB2	1.97	0.45
1:h:351:TYR:HA	1:h:643:GLN:NE2	2.30	0.45
1:h:710:PHE:CE2	1:h:724:ILE:HD11	2.51	0.45
1:i:457:ARG:HH21	1:j:551:ASP:CG	2.24	0.45
1:i:710:PHE:CE2	1:i:724:ILE:HD11	2.51	0.45
1:j:318:GLN:HE22	1:x:337:SER:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:710:PHE:CE2	1:k:724:ILE:HD11	2.51	0.45
1:o:318:GLN:HE22	1:7:337:SER:HA	1.80	0.45
1:p:300:ASN:O	1:p:729:LEU:HD21	2.15	0.45
1:q:457:ARG:HH21	1:r:551:ASP:CG	2.24	0.45
1:r:364:PHE:CE2	1:r:366:ALA:HB3	2.52	0.45
1:s:711:THR:HG22	1:s:712:VAL:N	2.31	0.45
1:u:426:SER:C	1:v:379:LEU:HD13	2.42	0.45
1:u:440:TYR:CE2	1:v:285:ARG:HD2	2.51	0.45
1:v:337:SER:HA	1:1:318:GLN:HE22	1.81	0.45
1:v:351:TYR:HA	1:v:643:GLN:NE2	2.30	0.45
1:v:561:GLU:OE2	1:y:702:TYR:OH	2.29	0.45
1:v:651:VAL:HG12	1:v:668:ILE:HD12	1.99	0.45
1:v:673:THR:HG21	1:w:652:PRO:HD2	1.97	0.45
1:x:364:PHE:CE2	1:x:366:ALA:HB3	2.52	0.45
1:x:426:SER:C	1:y:379:LEU:HD13	2.42	0.45
1:z:285:ARG:HD2	1:2:440:TYR:CE2	2.51	0.45
1:z:457:ARG:HH21	1:1:551:ASP:CG	2.24	0.45
1:1:567:ASN:OD1	1:1:604:TRP:HB2	2.16	0.45
1:1:651:VAL:HG12	1:1:668:ILE:HD12	1.99	0.45
1:1:710:PHE:CE2	1:1:724:ILE:HD11	2.51	0.45
1:2:251:TYR:OH	1:2:371:VAL:O	2.26	0.45
1:2:364:PHE:CE2	1:2:366:ALA:HB3	2.52	0.45
1:3:577:VAL:O	1:3:591:GLY:N	2.46	0.45
1:4:218:ASP:HB3	1:4:222:ASN:HB2	1.98	0.45
1:5:218:ASP:HB3	1:5:222:ASN:HB2	1.98	0.45
1:5:379:LEU:HD13	1:7:426:SER:C	2.41	0.45
1:6:426:SER:C	1:7:379:LEU:HD13	2.41	0.45
1:6:710:PHE:CE2	1:6:724:ILE:HD11	2.51	0.45
1:7:577:VAL:O	1:7:591:GLY:N	2.46	0.45
1:A:218:ASP:HB3	1:A:222:ASN:HB2	1.97	0.45
1:A:351:TYR:HA	1:A:643:GLN:NE2	2.30	0.45
1:A:604:TRP:O	1:G:622:THR:HB	2.17	0.45
1:A:673:THR:HG21	1:E:652:PRO:HD2	1.97	0.45
1:A:711:THR:HG22	1:A:712:VAL:N	2.31	0.45
1:D:426:SER:C	1:N:379:LEU:HD13	2.41	0.45
1:D:710:PHE:CE2	1:D:724:ILE:HD11	2.51	0.45
1:E:285:ARG:HD2	1:F:440:TYR:CE2	2.51	0.45
1:H:379:LEU:HD13	1:Y:426:SER:C	2.41	0.45
1:I:710:PHE:CE2	1:I:724:ILE:HD11	2.51	0.45
1:J:364:PHE:CE2	1:J:366:ALA:HB3	2.52	0.45
1:J:426:SER:C	1:L:379:LEU:HD13	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:435:PRO:HB3	1:L:377:LEU:HD21	1.99	0.45
1:K:226:ASN:ND2	1:L:401:MET:H	2.13	0.45
1:K:318:GLN:HE22	1:L:337:SER:HA	1.80	0.45
1:K:577:VAL:O	1:K:591:GLY:N	2.46	0.45
1:K:604:TRP:O	1:a:622:THR:HB	2.17	0.45
1:N:226:ASN:ND2	1:m:401:MET:H	2.12	0.45
1:R:457:ARG:HH21	1:S:551:ASP:CG	2.24	0.45
1:S:426:SER:C	1:U:379:LEU:HD13	2.41	0.45
1:T:426:SER:C	1:d:379:LEU:HD13	2.42	0.45
1:U:651:VAL:HG12	1:U:668:ILE:HD12	1.99	0.45
1:U:711:THR:HG22	1:U:712:VAL:N	2.31	0.45
1:V:426:SER:C	1:e:379:LEU:HD13	2.42	0.45
1:W:426:SER:C	1:Y:379:LEU:HD13	2.42	0.45
1:W:711:THR:HG22	1:W:712:VAL:N	2.31	0.45
1:Z:218:ASP:HB3	1:Z:222:ASN:HB2	1.97	0.45
1:b:226:ASN:ND2	1:o:401:MET:H	2.12	0.45
1:c:379:LEU:HD13	1:p:426:SER:C	2.42	0.45
1:c:710:PHE:CE2	1:c:724:ILE:HD11	2.51	0.45
1:d:567:ASN:OD1	1:d:604:TRP:HB2	2.16	0.45
1:e:579:ASN:OD1	1:e:589:THR:OG1	2.23	0.45
1:g:652:PRO:HD2	1:k:673:THR:HG21	1.97	0.45
1:j:711:THR:HG22	1:j:712:VAL:N	2.31	0.45
1:k:651:VAL:HG12	1:k:668:ILE:HD12	1.99	0.45
1:m:426:SER:C	1:n:379:LEU:HD13	2.42	0.45
1:n:567:ASN:OD1	1:n:604:TRP:HB2	2.16	0.45
1:o:226:ASN:ND2	1:7:401:MET:H	2.12	0.45
1:p:711:THR:HG22	1:p:712:VAL:N	2.31	0.45
1:r:457:ARG:HH21	1:s:551:ASP:CG	2.24	0.45
1:t:622:THR:HB	1:v:604:TRP:O	2.17	0.45
1:v:711:THR:HG22	1:v:712:VAL:N	2.31	0.45
1:y:364:PHE:CE2	1:y:366:ALA:HB3	2.52	0.45
1:z:377:LEU:HD21	1:2:435:PRO:HB3	1.99	0.45
1:1:426:SER:C	1:2:379:LEU:HD13	2.41	0.45
1:2:567:ASN:OD1	1:2:604:TRP:HB2	2.16	0.45
1:3:318:GLN:HE22	1:8:337:SER:HA	1.81	0.45
1:3:622:THR:HB	1:4:604:TRP:O	2.17	0.45
1:4:364:PHE:CE2	1:4:366:ALA:HB3	2.52	0.45
1:5:300:ASN:O	1:5:729:LEU:HD21	2.15	0.45
1:5:567:ASN:OD1	1:5:604:TRP:HB2	2.16	0.45
1:6:711:THR:HG22	1:6:712:VAL:N	2.31	0.45
1:A:285:ARG:HD2	1:I:440:TYR:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:PRO:HB3	1:G:377:LEU:HD21	1.98	0.45
1:B:583:ASN:OD1	1:B:586:ALA:N	2.40	0.45
1:C:426:SER:C	1:b:379:LEU:HD13	2.42	0.45
1:C:622:THR:HB	1:M:604:TRP:O	2.17	0.45
1:D:285:ARG:HD2	1:P:440:TYR:CE2	2.51	0.45
1:E:651:VAL:HG12	1:E:668:ILE:HD12	1.99	0.45
1:F:364:PHE:CE2	1:F:366:ALA:HB3	2.52	0.45
1:G:318:GLN:HE22	1:W:337:SER:HA	1.80	0.45
1:H:457:ARG:HH21	1:W:551:ASP:CG	2.24	0.45
1:I:711:THR:HG22	1:I:712:VAL:N	2.31	0.45
1:K:364:PHE:CE2	1:K:366:ALA:HB3	2.52	0.45
1:K:652:PRO:HD2	1:7:673:THR:HG21	1.97	0.45
1:M:551:ASP:CG	1:b:457:ARG:HH21	2.24	0.45
1:N:710:PHE:CE2	1:N:724:ILE:HD11	2.52	0.45
1:R:551:ASP:CG	1:U:457:ARG:HH21	2.24	0.45
1:S:457:ARG:HH21	1:U:551:ASP:CG	2.24	0.45
1:V:285:ARG:NH1	1:X:440:TYR:CE1	2.84	0.45
1:V:440:TYR:CE2	1:e:285:ARG:HD2	2.51	0.45
1:V:604:TRP:O	1:e:622:THR:HB	2.17	0.45
1:V:711:THR:HG22	1:V:712:VAL:N	2.31	0.45
1:Y:226:ASN:ND2	1:4:401:MET:H	2.13	0.45
1:Y:673:THR:HG21	1:4:652:PRO:HD2	1.97	0.45
1:Z:435:PRO:HB3	1:4:377:LEU:HD21	1.99	0.45
1:a:218:ASP:HB3	1:a:222:ASN:HB2	1.97	0.45
1:c:285:ARG:HD2	1:p:440:TYR:CE2	2.51	0.45
1:d:651:VAL:HG12	1:d:668:ILE:HD12	1.99	0.45
1:d:711:THR:HG22	1:d:712:VAL:N	2.31	0.45
1:i:440:TYR:CE2	1:j:285:ARG:HD2	2.51	0.45
1:i:604:TRP:O	1:j:622:THR:HB	2.17	0.45
1:j:710:PHE:CE2	1:j:724:ILE:HD11	2.51	0.45
1:l:567:ASN:OD1	1:l:604:TRP:HB2	2.16	0.45
1:n:711:THR:HG22	1:n:712:VAL:N	2.31	0.45
1:q:710:PHE:CE2	1:q:724:ILE:HD11	2.51	0.45
1:r:426:SER:C	1:s:379:LEU:HD13	2.41	0.45
1:s:651:VAL:HG12	1:s:668:ILE:HD12	1.99	0.45
1:v:218:ASP:HB3	1:v:222:ASN:HB2	1.97	0.45
1:w:651:VAL:HG12	1:w:668:ILE:HD12	1.99	0.45
1:x:435:PRO:HB3	1:y:377:LEU:HD21	1.99	0.45
1:y:711:THR:HG22	1:y:712:VAL:N	2.31	0.45
1:z:379:LEU:HD13	1:2:426:SER:C	2.41	0.45
1:z:401:MET:H	1:4:226:ASN:ND2	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:426:SER:C	1:1:379:LEU:HD13	2.41	0.45
1:5:401:MET:H	1:8:226:ASN:ND2	2.13	0.45
1:6:435:PRO:HB3	1:7:377:LEU:HD21	1.98	0.45
1:6:604:TRP:O	1:7:622:THR:HB	2.16	0.45
1:8:224:SER:HG	1:8:316:ASN:H	1.63	0.45
1:B:364:PHE:CE2	1:B:366:ALA:HB3	2.52	0.45
1:B:379:LEU:HD13	1:L:426:SER:C	2.41	0.45
1:B:577:VAL:O	1:B:591:GLY:N	2.46	0.45
1:C:337:SER:HA	1:D:318:GLN:HE22	1.80	0.45
1:C:652:PRO:HD2	1:D:673:THR:HG21	1.97	0.45
1:F:377:LEU:HD21	1:Q:435:PRO:HB3	1.99	0.45
1:F:505:LYS:HD3	1:F:512:ASP:HB3	1.99	0.45
1:F:652:PRO:HD2	1:R:673:THR:HG21	1.97	0.45
1:G:651:VAL:HG12	1:G:668:ILE:HD12	1.99	0.45
1:H:300:ASN:O	1:H:729:LEU:HD21	2.15	0.45
1:K:377:LEU:HD21	1:8:435:PRO:HB3	1.99	0.45
1:K:551:ASP:CG	1:8:457:ARG:HH21	2.24	0.45
1:K:567:ASN:OD1	1:K:604:TRP:HB2	2.16	0.45
1:K:651:VAL:HG12	1:K:668:ILE:HD12	1.99	0.45
1:M:505:LYS:HD3	1:M:512:ASP:HB3	1.99	0.45
1:O:505:LYS:HD3	1:O:512:ASP:HB3	1.99	0.45
1:P:710:PHE:CE2	1:P:724:ILE:HD11	2.52	0.45
1:R:710:PHE:CE2	1:R:724:ILE:HD11	2.51	0.45
1:Y:303:TRP:HE3	1:Y:731:ARG:HH21	1.62	0.45
1:Y:561:GLU:OE2	1:Z:702:TYR:OH	2.28	0.45
1:Y:577:VAL:O	1:Y:591:GLY:N	2.46	0.45
1:a:393:CYS:SG	1:a:395:GLU:HB2	2.57	0.45
1:b:318:GLN:HE22	1:o:337:SER:HA	1.81	0.45
1:b:505:LYS:HD3	1:b:512:ASP:HB3	1.99	0.45
1:c:393:CYS:SG	1:c:395:GLU:HB2	2.57	0.45
1:c:435:PRO:HB3	1:o:377:LEU:HD21	1.99	0.45
1:c:604:TRP:O	1:o:622:THR:HB	2.17	0.45
1:c:622:THR:HB	1:p:604:TRP:O	2.17	0.45
1:e:393:CYS:SG	1:e:395:GLU:HB2	2.57	0.45
1:f:379:LEU:HD13	1:g:426:SER:C	2.42	0.45
1:g:337:SER:HA	1:k:318:GLN:HE22	1.81	0.45
1:h:505:LYS:HD3	1:h:512:ASP:HB3	1.99	0.45
1:h:567:ASN:OD1	1:h:604:TRP:HB2	2.16	0.45
1:i:379:LEU:HD13	1:k:426:SER:C	2.41	0.45
1:j:435:PRO:HB3	1:k:377:LEU:HD21	1.98	0.45
1:j:440:TYR:CE2	1:k:285:ARG:HD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:457:ARG:HH21	1:k:551:ASP:CG	2.24	0.45
1:j:577:VAL:O	1:j:591:GLY:N	2.46	0.45
1:k:505:LYS:HD3	1:k:512:ASP:HB3	1.99	0.45
1:l:505:LYS:HD3	1:l:512:ASP:HB3	1.99	0.45
1:m:702:TYR:OH	1:r:561:GLU:OE2	2.29	0.45
1:n:651:VAL:HG12	1:n:668:ILE:HD12	1.99	0.45
1:n:710:PHE:CE2	1:n:724:ILE:HD11	2.51	0.45
1:q:440:TYR:CE2	1:r:285:ARG:HD2	2.51	0.45
1:t:710:PHE:CE2	1:t:724:ILE:HD11	2.51	0.45
1:t:711:THR:HG22	1:t:712:VAL:N	2.31	0.45
1:u:435:PRO:HB3	1:v:377:LEU:HD21	1.99	0.45
1:u:710:PHE:CE2	1:u:724:ILE:HD11	2.52	0.45
1:u:711:THR:HG22	1:u:712:VAL:N	2.31	0.45
1:z:337:SER:HA	1:4:318:GLN:HE22	1.80	0.45
1:1:364:PHE:CE2	1:1:366:ALA:HB3	2.52	0.45
1:1:583:ASN:OD1	1:1:586:ALA:N	2.40	0.45
1:2:226:ASN:ND2	1:3:401:MET:H	2.13	0.45
1:3:218:ASP:HB3	1:3:222:ASN:HB2	1.97	0.45
1:3:393:CYS:SG	1:3:395:GLU:HB2	2.57	0.45
1:4:651:VAL:HG12	1:4:668:ILE:HD12	1.99	0.45
1:5:457:ARG:HH21	1:6:551:ASP:CG	2.24	0.45
1:5:577:VAL:O	1:5:591:GLY:N	2.46	0.45
1:A:561:GLU:OE2	1:F:702:TYR:OH	2.29	0.45
1:B:237:ARG:HG2	1:B:683:GLU:HA	1.99	0.45
1:C:567:ASN:OD1	1:C:604:TRP:HB2	2.16	0.45
1:D:364:PHE:CE2	1:D:366:ALA:HB3	2.52	0.45
1:D:505:LYS:HD3	1:D:512:ASP:HB3	1.99	0.45
1:E:435:PRO:HB3	1:Q:377:LEU:HD21	1.99	0.45
1:F:393:CYS:SG	1:F:395:GLU:HB2	2.57	0.45
1:F:711:THR:HG22	1:F:712:VAL:N	2.31	0.45
1:G:579:ASN:OD1	1:G:589:THR:OG1	2.23	0.45
1:G:710:PHE:CE2	1:G:724:ILE:HD11	2.51	0.45
1:H:577:VAL:O	1:H:591:GLY:N	2.46	0.45
1:K:379:LEU:HD13	1:8:426:SER:C	2.41	0.45
1:M:567:ASN:OD1	1:M:604:TRP:HB2	2.16	0.45
1:N:702:TYR:OH	1:O:561:GLU:OE2	2.29	0.45
1:O:237:ARG:HG2	1:O:683:GLU:HA	1.99	0.45
1:O:377:LEU:HD21	1:n:435:PRO:HB3	1.99	0.45
1:O:567:ASN:OD1	1:O:604:TRP:HB2	2.16	0.45
1:P:577:VAL:O	1:P:591:GLY:N	2.46	0.45
1:R:440:TYR:CE2	1:S:285:ARG:HD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:401:MET:H	1:i:226:ASN:ND2	2.12	0.45
1:U:218:ASP:HB3	1:U:222:ASN:HB2	1.97	0.45
1:W:364:PHE:CE2	1:W:366:ALA:HB3	2.52	0.45
1:W:435:PRO:HB3	1:Y:377:LEU:HD21	1.99	0.45
1:X:710:PHE:CE2	1:X:724:ILE:HD11	2.51	0.45
1:Y:505:LYS:HD3	1:Y:512:ASP:HB3	1.99	0.45
1:Z:426:SER:C	1:4:379:LEU:HD13	2.41	0.45
1:Z:457:ARG:HH21	1:4:551:ASP:CG	2.24	0.45
1:a:364:PHE:CE2	1:a:366:ALA:HB3	2.52	0.45
1:b:561:GLU:OE2	1:c:702:TYR:OH	2.29	0.45
1:d:364:PHE:CE2	1:d:366:ALA:HB3	2.52	0.45
1:d:710:PHE:CE2	1:d:724:ILE:HD11	2.51	0.45
1:f:457:ARG:HH21	1:h:551:ASP:CG	2.24	0.45
1:f:505:LYS:HD3	1:f:512:ASP:HB3	1.99	0.45
1:g:567:ASN:OD1	1:g:604:TRP:HB2	2.16	0.45
1:i:285:ARG:HD2	1:k:440:TYR:CE2	2.51	0.45
1:j:579:ASN:OD1	1:j:589:THR:OG1	2.23	0.45
1:l:237:ARG:HG2	1:l:683:GLU:HA	1.99	0.45
1:m:710:PHE:CE2	1:m:724:ILE:HD11	2.51	0.45
1:n:364:PHE:CE2	1:n:366:ALA:HB3	2.52	0.45
1:o:710:PHE:CE2	1:o:724:ILE:HD11	2.51	0.45
1:p:364:PHE:CE2	1:p:366:ALA:HB3	2.52	0.45
1:q:551:ASP:CG	1:s:457:ARG:HH21	2.24	0.45
1:q:673:THR:HG21	1:y:652:PRO:HD2	1.97	0.45
1:s:218:ASP:HB3	1:s:222:ASN:HB2	1.97	0.45
1:t:337:SER:HA	1:y:318:GLN:HE22	1.81	0.45
1:t:377:LEU:HD21	1:v:435:PRO:HB3	1.98	0.45
1:t:393:CYS:SG	1:t:395:GLU:HB2	2.57	0.45
1:t:651:VAL:HG12	1:t:668:ILE:HD12	1.99	0.45
1:w:435:PRO:HB3	1:x:377:LEU:HD21	1.99	0.45
1:w:710:PHE:CE2	1:w:724:ILE:HD11	2.51	0.45
1:y:393:CYS:SG	1:y:395:GLU:HB2	2.57	0.45
1:y:505:LYS:HD3	1:y:512:ASP:HB3	1.99	0.45
1:y:710:PHE:CE2	1:y:724:ILE:HD11	2.51	0.45
1:1:237:ARG:HG2	1:1:683:GLU:HA	1.99	0.45
1:1:577:VAL:O	1:1:591:GLY:N	2.46	0.45
1:3:364:PHE:CE2	1:3:366:ALA:HB3	2.52	0.45
1:5:651:VAL:HG12	1:5:668:ILE:HD12	1.99	0.45
1:5:710:PHE:CE2	1:5:724:ILE:HD11	2.51	0.45
1:6:364:PHE:CE2	1:6:366:ALA:HB3	2.52	0.45
1:7:505:LYS:HD3	1:7:512:ASP:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:710:PHE:CE2	1:8:724:ILE:HD11	2.51	0.45
1:A:377:LEU:HD21	1:I:435:PRO:HB3	1.99	0.45
1:B:251:TYR:OH	1:B:371:VAL:O	2.26	0.45
1:B:457:ARG:HH21	1:J:551:ASP:CG	2.24	0.45
1:D:377:LEU:HD21	1:P:435:PRO:HB3	1.99	0.45
1:E:710:PHE:CE2	1:E:724:ILE:HD11	2.51	0.45
1:F:710:PHE:CE2	1:F:724:ILE:HD11	2.51	0.45
1:H:237:ARG:HG2	1:H:683:GLU:HA	1.99	0.45
1:H:364:PHE:CE2	1:H:366:ALA:HB3	2.52	0.45
1:H:651:VAL:HG12	1:H:668:ILE:HD12	1.99	0.45
1:H:710:PHE:CE2	1:H:724:ILE:HD11	2.51	0.45
1:J:226:ASN:ND2	1:a:401:MET:H	2.13	0.45
1:K:393:CYS:SG	1:K:395:GLU:HB2	2.57	0.45
1:M:318:GLN:HE22	1:N:337:SER:HA	1.80	0.45
1:M:577:VAL:O	1:M:591:GLY:N	2.46	0.45
1:M:622:THR:HB	1:b:604:TRP:O	2.17	0.45
1:Q:393:CYS:SG	1:Q:395:GLU:HB2	2.57	0.45
1:T:710:PHE:CE2	1:T:724:ILE:HD11	2.51	0.45
1:V:237:ARG:HG2	1:V:683:GLU:HA	1.99	0.45
1:X:393:CYS:SG	1:X:395:GLU:HB2	2.57	0.45
1:Y:237:ARG:HG2	1:Y:683:GLU:HA	1.99	0.45
1:Z:710:PHE:CE2	1:Z:724:ILE:HD11	2.51	0.45
1:a:604:TRP:O	1:8:622:THR:HB	2.17	0.45
1:d:435:PRO:HB3	1:l:377:LEU:HD21	1.99	0.45
1:e:364:PHE:CE2	1:e:366:ALA:HB3	2.52	0.45
1:j:393:CYS:SG	1:j:395:GLU:HB2	2.57	0.45
1:k:364:PHE:CE2	1:k:366:ALA:HB3	2.52	0.45
1:o:435:PRO:HB3	1:p:377:LEU:HD21	1.99	0.45
1:q:604:TRP:O	1:r:622:THR:HB	2.17	0.45
1:q:711:THR:HG22	1:q:712:VAL:N	2.31	0.45
1:r:440:TYR:CE2	1:s:285:ARG:HD2	2.51	0.45
1:u:604:TRP:O	1:v:622:THR:HB	2.16	0.45
1:v:505:LYS:HD3	1:v:512:ASP:HB3	1.99	0.45
1:1:251:TYR:OH	1:1:371:VAL:O	2.26	0.45
1:1:457:ARG:HH21	1:2:551:ASP:CG	2.24	0.45
1:4:393:CYS:SG	1:4:395:GLU:HB2	2.57	0.45
1:4:567:ASN:OD1	1:4:604:TRP:HB2	2.16	0.45
1:A:237:ARG:HG2	1:A:683:GLU:HA	1.99	0.45
1:A:505:LYS:HD3	1:A:512:ASP:HB3	1.99	0.45
1:B:218:ASP:HB3	1:B:222:ASN:HB2	1.97	0.45
1:C:379:LEU:HD13	1:M:426:SER:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:364:PHE:CE2	1:G:366:ALA:HB3	2.52	0.45
1:G:393:CYS:SG	1:G:395:GLU:HB2	2.57	0.45
1:I:505:LYS:HD3	1:I:512:ASP:HB3	1.99	0.45
1:N:431:ARG:HD2	1:P:377:LEU:HD13	1.99	0.45
1:N:567:ASN:OD1	1:N:604:TRP:HB2	2.16	0.45
1:O:710:PHE:CE2	1:O:724:ILE:HD11	2.51	0.45
1:P:579:ASN:OD1	1:P:589:THR:OG1	2.23	0.45
1:R:435:PRO:HB3	1:S:377:LEU:HD21	1.98	0.45
1:R:604:TRP:O	1:S:622:THR:HB	2.17	0.45
1:R:711:THR:HG22	1:R:712:VAL:N	2.31	0.45
1:S:224:SER:HG	1:S:316:ASN:H	1.64	0.45
1:S:440:TYR:CE2	1:U:285:ARG:HD2	2.51	0.45
1:S:561:GLU:OE2	1:T:702:TYR:OH	2.29	0.45
1:S:651:VAL:HG12	1:S:668:ILE:HD12	1.99	0.45
1:T:505:LYS:HD3	1:T:512:ASP:HB3	1.99	0.45
1:V:364:PHE:CE2	1:V:366:ALA:HB3	2.52	0.45
1:V:379:LEU:HD13	1:X:426:SER:C	2.42	0.45
1:W:702:TYR:OH	1:X:561:GLU:OE2	2.29	0.45
1:e:318:GLN:HE22	1:h:337:SER:HA	1.81	0.45
1:g:551:ASP:CG	1:h:457:ARG:HH21	2.24	0.45
1:h:577:VAL:O	1:h:591:GLY:N	2.46	0.45
1:i:218:ASP:HB3	1:i:222:ASN:HB2	1.97	0.45
1:i:567:ASN:OD1	1:i:604:TRP:HB2	2.16	0.45
1:k:393:CYS:SG	1:k:395:GLU:HB2	2.57	0.45
1:m:237:ARG:HG2	1:m:683:GLU:HA	1.99	0.45
1:m:505:LYS:HD3	1:m:512:ASP:HB3	1.99	0.45
1:o:393:CYS:SG	1:o:395:GLU:HB2	2.57	0.45
1:p:237:ARG:HG2	1:p:683:GLU:HA	1.99	0.45
1:q:435:PRO:HB3	1:r:377:LEU:HD21	1.98	0.45
1:r:651:VAL:HG12	1:r:668:ILE:HD12	1.99	0.45
1:u:505:LYS:HD3	1:u:512:ASP:HB3	1.99	0.45
1:u:651:VAL:HG12	1:u:668:ILE:HD12	1.99	0.45
1:x:393:CYS:SG	1:x:395:GLU:HB2	2.57	0.45
1:x:604:TRP:O	1:y:622:THR:HB	2.16	0.45
1:y:237:ARG:HG2	1:y:683:GLU:HA	1.99	0.45
1:1:218:ASP:HB3	1:1:222:ASN:HB2	1.97	0.45
1:3:377:LEU:HD21	1:4:435:PRO:HB3	1.99	0.45
1:4:237:ARG:HG2	1:4:683:GLU:HA	1.99	0.45
1:5:237:ARG:HG2	1:5:683:GLU:HA	1.99	0.45
1:7:237:ARG:HG2	1:7:683:GLU:HA	1.99	0.45
1:A:622:THR:HB	1:I:604:TRP:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:551:ASP:CG	1:M:457:ARG:HH21	2.24	0.45
1:D:435:PRO:HB3	1:N:377:LEU:HD21	1.99	0.45
1:E:583:ASN:OD1	1:E:586:ALA:N	2.40	0.45
1:E:604:TRP:O	1:Q:622:THR:HB	2.17	0.45
1:F:237:ARG:HG2	1:F:683:GLU:HA	1.99	0.45
1:F:622:THR:HB	1:Q:604:TRP:O	2.16	0.45
1:G:300:ASN:O	1:G:729:LEU:HD21	2.15	0.45
1:I:651:VAL:HG12	1:I:668:ILE:HD12	1.99	0.45
1:K:237:ARG:HG2	1:K:683:GLU:HA	1.99	0.45
1:K:285:ARG:HD2	1:8:440:TYR:CE2	2.51	0.45
1:K:435:PRO:HB3	1:a:377:LEU:HD21	1.99	0.45
1:K:507:HIS:HD2	1:K:512:ASP:OD1	2.00	0.45
1:L:505:LYS:HD3	1:L:512:ASP:HB3	1.99	0.45
1:N:218:ASP:HB3	1:N:222:ASN:HB2	1.98	0.45
1:O:251:TYR:OH	1:O:371:VAL:O	2.26	0.45
1:O:435:PRO:HB3	1:m:377:LEU:HD21	1.99	0.45
1:P:393:CYS:SG	1:P:395:GLU:HB2	2.57	0.45
1:Q:507:HIS:HD2	1:Q:512:ASP:OD1	2.00	0.45
1:S:710:PHE:CE2	1:S:724:ILE:HD11	2.51	0.45
1:T:377:LEU:HD21	1:l:435:PRO:HB3	1.99	0.45
1:U:505:LYS:HD3	1:U:512:ASP:HB3	1.99	0.45
1:X:285:ARG:HD2	1:e:440:TYR:CE2	2.51	0.45
1:Y:393:CYS:SG	1:Y:395:GLU:HB2	2.57	0.45
1:Z:237:ARG:HG2	1:Z:683:GLU:HA	1.99	0.45
1:Z:440:TYR:CE2	1:4:285:ARG:HD2	2.51	0.45
1:Z:622:THR:HB	1:3:604:TRP:O	2.17	0.45
1:b:237:ARG:HG2	1:b:683:GLU:HA	1.99	0.45
1:c:364:PHE:CE2	1:c:366:ALA:HB3	2.52	0.45
1:c:505:LYS:HD3	1:c:512:ASP:HB3	1.99	0.45
1:e:505:LYS:HD3	1:e:512:ASP:HB3	1.99	0.45
1:l:710:PHE:CE2	1:l:724:ILE:HD11	2.51	0.45
1:m:604:TRP:O	1:n:622:THR:HB	2.17	0.45
1:q:237:ARG:HG2	1:q:683:GLU:HA	1.99	0.45
1:s:505:LYS:HD3	1:s:512:ASP:HB3	1.99	0.45
1:t:364:PHE:CE2	1:t:366:ALA:HB3	2.52	0.45
1:v:237:ARG:HG2	1:v:683:GLU:HA	1.99	0.45
1:w:364:PHE:CE2	1:w:366:ALA:HB3	2.52	0.45
1:w:583:ASN:OD1	1:w:586:ALA:N	2.40	0.45
1:y:579:ASN:OD1	1:y:589:THR:OG1	2.23	0.45
1:z:505:LYS:HD3	1:z:512:ASP:HB3	1.99	0.45
1:1:300:ASN:O	1:1:729:LEU:HD21	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:364:PHE:CE2	1:5:366:ALA:HB3	2.52	0.45
1:7:393:CYS:SG	1:7:395:GLU:HB2	2.57	0.45
1:7:561:GLU:OE2	1:8:702:TYR:OH	2.28	0.45
1:8:237:ARG:HG2	1:8:683:GLU:HA	1.99	0.45
1:A:318:GLN:HE22	1:E:337:SER:HA	1.81	0.44
1:A:507:HIS:HD2	1:A:512:ASP:OD1	2.00	0.44
1:A:710:PHE:CE2	1:A:724:ILE:HD11	2.51	0.44
1:B:300:ASN:O	1:B:729:LEU:HD21	2.15	0.44
1:B:507:HIS:HD2	1:B:512:ASP:OD1	2.00	0.44
1:B:604:TRP:O	1:J:622:THR:HB	2.17	0.44
1:D:377:LEU:HD13	1:P:431:ARG:HD2	1.99	0.44
1:D:393:CYS:SG	1:D:395:GLU:HB2	2.57	0.44
1:D:440:TYR:CE2	1:N:285:ARG:HD2	2.51	0.44
1:E:379:LEU:HD13	1:F:426:SER:C	2.41	0.44
1:E:505:LYS:HD3	1:E:512:ASP:HB3	1.99	0.44
1:H:377:LEU:HD13	1:Y:431:ARG:HD2	1.99	0.44
1:I:393:CYS:SG	1:I:395:GLU:HB2	2.57	0.44
1:J:237:ARG:HG2	1:J:683:GLU:HA	1.99	0.44
1:K:505:LYS:HD3	1:K:512:ASP:HB3	1.99	0.44
1:Q:226:ASN:ND2	1:S:401:MET:H	2.12	0.44
1:R:237:ARG:HG2	1:R:683:GLU:HA	1.99	0.44
1:S:505:LYS:HD3	1:S:512:ASP:HB3	1.99	0.44
1:T:237:ARG:HG2	1:T:683:GLU:HA	1.99	0.44
1:T:604:TRP:O	1:d:622:THR:HB	2.17	0.44
1:V:393:CYS:SG	1:V:395:GLU:HB2	2.57	0.44
1:X:368:VAL:HG11	1:Y:652:PRO:HG3	1.99	0.44
1:Z:604:TRP:O	1:4:622:THR:HB	2.17	0.44
1:b:364:PHE:CE2	1:b:366:ALA:HB3	2.52	0.44
1:d:507:HIS:HD2	1:d:512:ASP:OD1	2.00	0.44
1:d:604:TRP:O	1:l:622:THR:HB	2.17	0.44
1:e:368:VAL:HG11	1:h:652:PRO:HG3	1.99	0.44
1:e:507:HIS:HD2	1:e:512:ASP:OD1	2.00	0.44
1:e:702:TYR:OH	1:f:561:GLU:OE2	2.29	0.44
1:f:237:ARG:HG2	1:f:683:GLU:HA	1.99	0.44
1:i:237:ARG:HG2	1:i:683:GLU:HA	1.99	0.44
1:i:364:PHE:CE2	1:i:366:ALA:HB3	2.52	0.44
1:i:377:LEU:HD21	1:k:435:PRO:HB3	1.99	0.44
1:i:431:ARG:HD2	1:j:377:LEU:HD13	1.99	0.44
1:i:505:LYS:HD3	1:i:512:ASP:HB3	1.99	0.44
1:n:507:HIS:HD2	1:n:512:ASP:OD1	2.00	0.44
1:o:604:TRP:O	1:p:622:THR:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:505:LYS:HD3	1:p:512:ASP:HB3	1.99	0.44
1:p:651:VAL:HG12	1:p:668:ILE:HD12	1.99	0.44
1:r:710:PHE:CE2	1:r:724:ILE:HD11	2.51	0.44
1:t:300:ASN:O	1:t:729:LEU:HD21	2.15	0.44
1:v:318:GLN:HE22	1:w:337:SER:HA	1.81	0.44
1:v:507:HIS:HD2	1:v:512:ASP:OD1	2.00	0.44
1:w:604:TRP:O	1:x:622:THR:HB	2.17	0.44
1:x:507:HIS:HD2	1:x:512:ASP:OD1	2.00	0.44
1:1:507:HIS:HD2	1:1:512:ASP:OD1	2.00	0.44
1:2:237:ARG:HG2	1:2:683:GLU:HA	1.99	0.44
1:2:579:ASN:OD1	1:2:589:THR:OG1	2.23	0.44
1:3:710:PHE:CE2	1:3:724:ILE:HD11	2.51	0.44
1:4:507:HIS:HD2	1:4:512:ASP:OD1	2.00	0.44
1:5:377:LEU:HD13	1:7:431:ARG:HD2	1.99	0.44
1:5:377:LEU:HD21	1:7:435:PRO:HB3	1.99	0.44
1:5:431:ARG:HD2	1:6:377:LEU:HD13	1.99	0.44
1:6:651:VAL:HG12	1:6:668:ILE:HD12	1.99	0.44
1:8:711:THR:HG22	1:8:712:VAL:N	2.31	0.44
1:A:393:CYS:SG	1:A:395:GLU:HB2	2.57	0.44
1:A:401:MET:H	1:B:226:ASN:ND2	2.13	0.44
1:D:622:THR:HB	1:P:604:TRP:O	2.16	0.44
1:D:702:TYR:OH	1:M:561:GLU:OE2	2.29	0.44
1:E:364:PHE:CE2	1:E:366:ALA:HB3	2.52	0.44
1:F:377:LEU:HD13	1:Q:431:ARG:HD2	2.00	0.44
1:G:505:LYS:HD3	1:G:512:ASP:HB3	1.99	0.44
1:H:224:SER:HG	1:H:316:ASN:H	1.62	0.44
1:H:377:LEU:HD21	1:Y:435:PRO:HB3	1.99	0.44
1:H:622:THR:HB	1:Y:604:TRP:O	2.16	0.44
1:K:622:THR:HB	1:8:604:TRP:O	2.17	0.44
1:M:364:PHE:CE2	1:M:366:ALA:HB3	2.52	0.44
1:M:377:LEU:HD21	1:b:435:PRO:HB3	1.99	0.44
1:N:237:ARG:HG2	1:N:683:GLU:HA	1.99	0.44
1:N:364:PHE:CE2	1:N:366:ALA:HB3	2.52	0.44
1:N:393:CYS:SG	1:N:395:GLU:HB2	2.57	0.44
1:P:364:PHE:CE2	1:P:366:ALA:HB3	2.52	0.44
1:Q:505:LYS:HD3	1:Q:512:ASP:HB3	1.99	0.44
1:R:364:PHE:CE2	1:R:366:ALA:HB3	2.52	0.44
1:R:651:VAL:HG12	1:R:668:ILE:HD12	1.99	0.44
1:T:226:ASN:ND2	1:U:401:MET:H	2.13	0.44
1:T:368:VAL:HG11	1:U:652:PRO:HG3	2.00	0.44
1:T:393:CYS:SG	1:T:395:GLU:HB2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:505:LYS:HD3	1:V:512:ASP:HB3	1.99	0.44
1:V:651:VAL:HG12	1:V:668:ILE:HD12	1.99	0.44
1:W:651:VAL:HG12	1:W:668:ILE:HD12	1.99	0.44
1:X:237:ARG:HG2	1:X:683:GLU:HA	1.99	0.44
1:X:377:LEU:HD13	1:e:431:ARG:HD2	1.99	0.44
1:Y:364:PHE:CE2	1:Y:366:ALA:HB3	2.52	0.44
1:a:505:LYS:HD3	1:a:512:ASP:HB3	1.99	0.44
1:c:507:HIS:HD2	1:c:512:ASP:OD1	2.00	0.44
1:f:364:PHE:CE2	1:f:366:ALA:HB3	2.52	0.44
1:f:426:SER:C	1:h:379:LEU:HD13	2.41	0.44
1:g:226:ASN:ND2	1:l:401:MET:H	2.12	0.44
1:j:431:ARG:HD2	1:k:377:LEU:HD13	2.00	0.44
1:m:218:ASP:HB3	1:m:222:ASN:HB2	1.97	0.44
1:m:368:VAL:HG11	1:s:652:PRO:HG3	2.00	0.44
1:o:237:ARG:HG2	1:o:683:GLU:HA	1.99	0.44
1:r:505:LYS:HD3	1:r:512:ASP:HB3	1.99	0.44
1:t:435:PRO:HB3	1:u:377:LEU:HD21	1.99	0.44
1:u:364:PHE:CE2	1:u:366:ALA:HB3	2.52	0.44
1:u:393:CYS:SG	1:u:395:GLU:HB2	2.57	0.44
1:v:393:CYS:SG	1:v:395:GLU:HB2	2.57	0.44
1:w:393:CYS:SG	1:w:395:GLU:HB2	2.57	0.44
1:w:505:LYS:HD3	1:w:512:ASP:HB3	1.99	0.44
1:x:431:ARG:HD2	1:y:377:LEU:HD13	2.00	0.44
1:4:505:LYS:HD3	1:4:512:ASP:HB3	1.99	0.44
1:5:622:THR:HB	1:7:604:TRP:O	2.16	0.44
1:B:377:LEU:HD21	1:L:435:PRO:HB3	1.99	0.44
1:D:567:ASN:OD1	1:D:604:TRP:HB2	2.16	0.44
1:D:577:VAL:O	1:D:591:GLY:N	2.46	0.44
1:E:622:THR:HB	1:F:604:TRP:O	2.17	0.44
1:F:579:ASN:OD1	1:F:589:THR:OG1	2.23	0.44
1:H:431:ARG:HD2	1:W:377:LEU:HD13	1.99	0.44
1:J:579:ASN:OD1	1:J:589:THR:OG1	2.23	0.44
1:M:379:LEU:HD13	1:b:426:SER:C	2.41	0.44
1:N:505:LYS:HD3	1:N:512:ASP:HB3	1.99	0.44
1:O:622:THR:HB	1:n:604:TRP:O	2.17	0.44
1:S:237:ARG:HG2	1:S:683:GLU:HA	1.99	0.44
1:S:435:PRO:HB3	1:U:377:LEU:HD21	1.99	0.44
1:T:218:ASP:HB3	1:T:222:ASN:HB2	1.98	0.44
1:T:364:PHE:CE2	1:T:366:ALA:HB3	2.52	0.44
1:V:577:VAL:O	1:V:591:GLY:N	2.46	0.44
1:W:251:TYR:OH	1:W:371:VAL:O	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:507:HIS:HD2	1:X:512:ASP:OD1	2.00	0.44
1:X:651:VAL:HG12	1:X:668:ILE:HD12	1.99	0.44
1:X:673:THR:HG21	1:Y:652:PRO:HD2	1.98	0.44
1:a:710:PHE:CE2	1:a:724:ILE:HD11	2.51	0.44
1:b:507:HIS:HD2	1:b:512:ASP:OD1	2.00	0.44
1:f:377:LEU:HD13	1:g:431:ARG:HD2	1.99	0.44
1:f:507:HIS:HD2	1:f:512:ASP:OD1	2.00	0.44
1:f:651:VAL:HG12	1:f:668:ILE:HD12	1.99	0.44
1:h:318:GLN:HE22	1:i:337:SER:HA	1.81	0.44
1:h:364:PHE:CE2	1:h:366:ALA:HB3	2.52	0.44
1:i:393:CYS:SG	1:i:395:GLU:HB2	2.57	0.44
1:j:368:VAL:HG11	1:x:652:PRO:HG3	2.00	0.44
1:m:393:CYS:SG	1:m:395:GLU:HB2	2.57	0.44
1:m:651:VAL:HG12	1:m:668:ILE:HD12	1.99	0.44
1:o:507:HIS:HD2	1:o:512:ASP:OD1	2.00	0.44
1:p:393:CYS:SG	1:p:395:GLU:HB2	2.57	0.44
1:q:364:PHE:CE2	1:q:366:ALA:HB3	2.52	0.44
1:q:622:THR:HB	1:s:604:TRP:O	2.17	0.44
1:r:237:ARG:HG2	1:r:683:GLU:HA	1.99	0.44
1:r:435:PRO:HB3	1:s:377:LEU:HD21	1.99	0.44
1:r:604:TRP:O	1:s:622:THR:HB	2.17	0.44
1:t:505:LYS:HD3	1:t:512:ASP:HB3	1.99	0.44
1:v:710:PHE:CE2	1:v:724:ILE:HD11	2.51	0.44
1:w:379:LEU:HD13	1:y:426:SER:C	2.41	0.44
1:x:505:LYS:HD3	1:x:512:ASP:HB3	1.99	0.44
1:y:577:VAL:O	1:y:591:GLY:N	2.46	0.44
1:1:604:TRP:O	1:2:622:THR:HB	2.17	0.44
1:2:393:CYS:SG	1:2:395:GLU:HB2	2.57	0.44
1:3:505:LYS:HD3	1:3:512:ASP:HB3	1.99	0.44
1:6:505:LYS:HD3	1:6:512:ASP:HB3	1.99	0.44
1:A:364:PHE:CE2	1:A:366:ALA:HB3	2.52	0.44
1:B:393:CYS:SG	1:B:395:GLU:HB2	2.57	0.44
1:B:401:MET:H	1:C:226:ASN:ND2	2.12	0.44
1:B:622:THR:HB	1:L:604:TRP:O	2.17	0.44
1:C:431:ARG:HD2	1:b:377:LEU:HD13	2.00	0.44
1:E:377:LEU:HD21	1:F:435:PRO:HB3	1.98	0.44
1:E:393:CYS:SG	1:E:395:GLU:HB2	2.57	0.44
1:E:507:HIS:HD2	1:E:512:ASP:OD1	2.00	0.44
1:G:435:PRO:HB3	1:I:377:LEU:HD21	1.99	0.44
1:H:435:PRO:HB3	1:W:377:LEU:HD21	1.99	0.44
1:I:364:PHE:CE2	1:I:366:ALA:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:651:VAL:HG12	1:J:668:ILE:HD12	1.99	0.44
1:L:393:CYS:SG	1:L:395:GLU:HB2	2.57	0.44
1:M:368:VAL:HG11	1:N:652:PRO:HG3	2.00	0.44
1:M:507:HIS:HD2	1:M:512:ASP:OD1	2.00	0.44
1:Q:237:ARG:HG2	1:Q:683:GLU:HA	1.99	0.44
1:S:604:TRP:O	1:U:622:THR:HB	2.17	0.44
1:T:651:VAL:HG12	1:T:668:ILE:HD12	1.99	0.44
1:V:377:LEU:HD21	1:X:435:PRO:HB3	1.99	0.44
1:W:393:CYS:SG	1:W:395:GLU:HB2	2.57	0.44
1:W:505:LYS:HD3	1:W:512:ASP:HB3	1.99	0.44
1:X:318:GLN:HE22	1:Y:337:SER:HA	1.81	0.44
1:X:622:THR:HB	1:e:604:TRP:O	2.18	0.44
1:X:716:GLY:HA2	1:Y:256:TYR:O	2.15	0.44
1:Z:364:PHE:CE2	1:Z:366:ALA:HB3	2.52	0.44
1:f:622:THR:HB	1:g:604:TRP:O	2.17	0.44
1:h:507:HIS:HD2	1:h:512:ASP:OD1	2.00	0.44
1:j:364:PHE:CE2	1:j:366:ALA:HB3	2.52	0.44
1:j:604:TRP:O	1:k:622:THR:HB	2.17	0.44
1:j:651:VAL:HG12	1:j:668:ILE:HD12	1.99	0.44
1:j:702:TYR:OH	1:w:561:GLU:OE2	2.29	0.44
1:l:251:TYR:OH	1:l:371:VAL:O	2.26	0.44
1:l:393:CYS:SG	1:l:395:GLU:HB2	2.57	0.44
1:m:364:PHE:CE2	1:m:366:ALA:HB3	2.52	0.44
1:o:431:ARG:HD2	1:p:377:LEU:HD13	2.00	0.44
1:o:651:VAL:HG12	1:o:668:ILE:HD12	1.99	0.44
1:p:507:HIS:HD2	1:p:512:ASP:OD1	2.00	0.44
1:q:651:VAL:HG12	1:q:668:ILE:HD12	1.99	0.44
1:r:401:MET:H	1:x:226:ASN:ND2	2.12	0.44
1:t:226:ASN:ND2	1:6:401:MET:H	2.13	0.44
1:v:364:PHE:CE2	1:v:366:ALA:HB3	2.52	0.44
1:w:377:LEU:HD21	1:y:435:PRO:HB3	1.98	0.44
1:w:622:THR:HB	1:y:604:TRP:O	2.17	0.44
1:x:237:ARG:HG2	1:x:683:GLU:HA	1.99	0.44
1:z:393:CYS:SG	1:z:395:GLU:HB2	2.57	0.44
1:z:435:PRO:HB3	1:1:377:LEU:HD21	1.99	0.44
1:z:507:HIS:HD2	1:z:512:ASP:OD1	2.00	0.44
1:z:604:TRP:O	1:1:622:THR:HB	2.17	0.44
1:1:393:CYS:SG	1:1:395:GLU:HB2	2.57	0.44
1:5:435:PRO:HB3	1:6:377:LEU:HD21	1.99	0.44
1:6:251:TYR:OH	1:6:371:VAL:O	2.26	0.44
1:6:431:ARG:HD2	1:7:377:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:364:PHE:CE2	1:7:366:ALA:HB3	2.52	0.44
1:8:364:PHE:CE2	1:8:366:ALA:HB3	2.52	0.44
1:F:577:VAL:O	1:F:591:GLY:N	2.46	0.44
1:F:651:VAL:HG12	1:F:668:ILE:HD12	1.99	0.44
1:G:604:TRP:O	1:I:622:THR:HB	2.17	0.44
1:H:393:CYS:SG	1:H:395:GLU:HB2	2.57	0.44
1:J:393:CYS:SG	1:J:395:GLU:HB2	2.57	0.44
1:J:604:TRP:O	1:L:622:THR:HB	2.17	0.44
1:M:226:ASN:ND2	1:N:401:MET:H	2.13	0.44
1:O:393:CYS:SG	1:O:395:GLU:HB2	2.57	0.44
1:P:368:VAL:HG11	1:Q:652:PRO:HG3	2.00	0.44
1:P:651:VAL:HG12	1:P:668:ILE:HD12	1.99	0.44
1:Q:651:VAL:HG12	1:Q:668:ILE:HD12	1.99	0.44
1:R:622:THR:HB	1:U:604:TRP:O	2.17	0.44
1:U:710:PHE:CE2	1:U:724:ILE:HD11	2.52	0.44
1:W:431:ARG:HD2	1:Y:377:LEU:HD13	1.99	0.44
1:W:507:HIS:HD2	1:W:512:ASP:OD1	2.00	0.44
1:X:377:LEU:HD21	1:e:435:PRO:HB3	2.00	0.44
1:Y:218:ASP:HB3	1:Y:222:ASN:HB2	1.98	0.44
1:b:651:VAL:HG12	1:b:668:ILE:HD12	1.99	0.44
1:c:285:ARG:NH1	1:p:440:TYR:CE1	2.86	0.44
1:c:440:TYR:CE2	1:o:285:ARG:HD2	2.51	0.44
1:f:393:CYS:SG	1:f:395:GLU:HB2	2.57	0.44
1:f:577:VAL:O	1:f:591:GLY:N	2.46	0.44
1:g:377:LEU:HD13	1:h:431:ARG:HD2	1.99	0.44
1:g:379:LEU:HD13	1:h:426:SER:C	2.42	0.44
1:h:561:GLU:OE2	1:k:702:TYR:OH	2.29	0.44
1:k:567:ASN:OD1	1:k:604:TRP:HB2	2.16	0.44
1:m:226:ASN:ND2	1:s:401:MET:H	2.13	0.44
1:o:368:VAL:HG11	1:7:652:PRO:HG3	2.00	0.44
1:s:710:PHE:CE2	1:s:724:ILE:HD11	2.52	0.44
1:u:440:TYR:CE1	1:v:285:ARG:NH1	2.86	0.44
1:u:507:HIS:HD2	1:u:512:ASP:OD1	2.00	0.44
1:v:401:MET:H	1:1:226:ASN:ND2	2.13	0.44
1:v:702:TYR:OH	1:y:561:GLU:OE2	2.29	0.44
1:x:651:VAL:HG12	1:x:668:ILE:HD12	1.99	0.44
1:z:364:PHE:CE2	1:z:366:ALA:HB3	2.52	0.44
1:z:622:THR:HB	1:2:604:TRP:O	2.17	0.44
1:1:505:LYS:HD3	1:1:512:ASP:HB3	1.99	0.44
1:2:651:VAL:HG12	1:2:668:ILE:HD12	1.99	0.44
1:6:507:HIS:HD2	1:6:512:ASP:OD1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:ARG:NH1	1:I:440:TYR:CE1	2.86	0.44
1:A:702:TYR:OH	1:F:561:GLU:OE2	2.29	0.44
1:B:505:LYS:HD3	1:B:512:ASP:HB3	1.99	0.44
1:C:364:PHE:CE2	1:C:366:ALA:HB3	2.52	0.44
1:C:435:PRO:HB3	1:b:377:LEU:HD21	1.99	0.44
1:F:507:HIS:HD2	1:F:512:ASP:OD1	2.00	0.44
1:I:237:ARG:HG2	1:I:683:GLU:HA	1.99	0.44
1:I:507:HIS:HD2	1:I:512:ASP:OD1	2.00	0.44
1:J:507:HIS:HD2	1:J:512:ASP:OD1	2.00	0.44
1:L:364:PHE:CE2	1:L:366:ALA:HB3	2.52	0.44
1:L:507:HIS:HD2	1:L:512:ASP:OD1	2.00	0.44
1:L:583:ASN:OD1	1:L:586:ALA:N	2.40	0.44
1:R:393:CYS:SG	1:R:395:GLU:HB2	2.57	0.44
1:U:507:HIS:HD2	1:U:512:ASP:OD1	2.00	0.44
1:V:435:PRO:HB3	1:e:377:LEU:HD21	1.99	0.44
1:V:440:TYR:CE1	1:e:285:ARG:NH1	2.86	0.44
1:V:507:HIS:HD2	1:V:512:ASP:OD1	2.00	0.44
1:Z:507:HIS:HD2	1:Z:512:ASP:OD1	2.00	0.44
1:b:393:CYS:SG	1:b:395:GLU:HB2	2.57	0.44
1:c:377:LEU:HD21	1:p:435:PRO:HB3	1.99	0.44
1:e:561:GLU:OE2	1:f:702:TYR:OH	2.29	0.44
1:f:377:LEU:HD21	1:g:435:PRO:HB3	1.99	0.44
1:g:237:ARG:HG2	1:g:683:GLU:HA	1.99	0.44
1:k:577:VAL:O	1:k:591:GLY:N	2.46	0.44
1:m:561:GLU:OE2	1:r:702:TYR:OH	2.29	0.44
1:o:561:GLU:OE2	1:6:702:TYR:OH	2.29	0.44
1:q:393:CYS:SG	1:q:395:GLU:HB2	2.57	0.44
1:s:393:CYS:SG	1:s:395:GLU:HB2	2.57	0.44
1:s:507:HIS:HD2	1:s:512:ASP:OD1	2.00	0.44
1:t:237:ARG:HG2	1:t:683:GLU:HA	1.99	0.44
1:t:604:TRP:O	1:u:622:THR:HB	2.17	0.44
1:u:237:ARG:HG2	1:u:683:GLU:HA	1.99	0.44
1:w:507:HIS:HD2	1:w:512:ASP:OD1	2.00	0.44
1:y:651:VAL:HG12	1:y:668:ILE:HD12	1.99	0.44
1:z:651:VAL:HG12	1:z:668:ILE:HD12	1.99	0.44
1:2:507:HIS:HD2	1:2:512:ASP:OD1	2.00	0.44
1:7:507:HIS:HD2	1:7:512:ASP:OD1	2.00	0.44
1:C:237:ARG:HG2	1:C:683:GLU:HA	1.99	0.44
1:C:604:TRP:O	1:b:622:THR:HB	2.17	0.44
1:D:507:HIS:HD2	1:D:512:ASP:OD1	2.00	0.44
1:E:377:LEU:HD13	1:F:431:ARG:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:431:ARG:HD2	1:Q:377:LEU:HD13	2.00	0.44
1:E:561:GLU:OE2	1:P:702:TYR:OH	2.29	0.44
1:G:226:ASN:ND2	1:W:401:MET:H	2.13	0.44
1:G:237:ARG:HG2	1:G:683:GLU:HA	1.99	0.44
1:G:507:HIS:HD2	1:G:512:ASP:OD1	2.00	0.44
1:H:285:ARG:NH1	1:Y:440:TYR:CE1	2.86	0.44
1:H:604:TRP:O	1:W:622:THR:HB	2.16	0.44
1:L:651:VAL:HG12	1:L:668:ILE:HD12	1.99	0.44
1:R:377:LEU:HD21	1:U:435:PRO:HB3	1.99	0.44
1:T:440:TYR:CE1	1:d:285:ARG:NH1	2.86	0.44
1:U:393:CYS:SG	1:U:395:GLU:HB2	2.57	0.44
1:X:505:LYS:HD3	1:X:512:ASP:HB3	1.99	0.44
1:Y:507:HIS:HD2	1:Y:512:ASP:OD1	2.00	0.44
1:Z:583:ASN:OD1	1:Z:586:ALA:N	2.40	0.44
1:b:577:VAL:O	1:b:591:GLY:N	2.46	0.44
1:g:364:PHE:CE2	1:g:366:ALA:HB3	2.52	0.44
1:g:583:ASN:OD1	1:g:586:ALA:N	2.40	0.44
1:h:651:VAL:HG12	1:h:668:ILE:HD12	1.99	0.44
1:k:507:HIS:HD2	1:k:512:ASP:OD1	2.00	0.44
1:m:435:PRO:HB3	1:n:377:LEU:HD21	1.99	0.44
1:o:353:LEU:HD21	1:o:643:GLN:HG2	2.00	0.44
1:p:226:ASN:ND2	1:q:401:MET:H	2.12	0.44
1:p:368:VAL:HG11	1:q:652:PRO:HG3	1.99	0.44
1:p:577:VAL:O	1:p:591:GLY:N	2.46	0.44
1:q:377:LEU:HD21	1:s:435:PRO:HB3	1.99	0.44
1:v:226:ASN:ND2	1:w:401:MET:H	2.12	0.44
1:w:377:LEU:HD13	1:y:431:ARG:HD2	2.00	0.44
1:w:440:TYR:CE2	1:x:285:ARG:HD2	2.52	0.44
1:y:507:HIS:HD2	1:y:512:ASP:OD1	2.00	0.44
1:2:561:GLU:OE2	1:4:702:TYR:OH	2.29	0.44
1:5:604:TRP:O	1:6:622:THR:HB	2.16	0.44
1:6:393:CYS:SG	1:6:395:GLU:HB2	2.57	0.44
1:7:218:ASP:HB3	1:7:222:ASN:HB2	1.98	0.44
1:8:507:HIS:HD2	1:8:512:ASP:OD1	2.00	0.44
1:A:226:ASN:ND2	1:E:401:MET:H	2.12	0.44
1:E:237:ARG:HG2	1:E:683:GLU:HA	1.99	0.44
1:E:440:TYR:CE2	1:Q:285:ARG:HD2	2.52	0.44
1:L:237:ARG:HG2	1:L:683:GLU:HA	1.99	0.44
1:M:651:VAL:HG12	1:M:668:ILE:HD12	1.99	0.44
1:O:377:LEU:HD13	1:n:431:ARG:HD2	2.00	0.44
1:P:237:ARG:HG2	1:P:683:GLU:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:505:LYS:HD3	1:P:512:ASP:HB3	1.99	0.44
1:S:702:TYR:OH	1:T:561:GLU:OE2	2.29	0.44
1:T:435:PRO:HB3	1:d:377:LEU:HD21	1.99	0.44
1:Z:651:VAL:HG12	1:Z:668:ILE:HD12	1.99	0.44
1:a:651:VAL:HG12	1:a:668:ILE:HD12	1.99	0.44
1:b:353:LEU:HD21	1:b:643:GLN:HG2	2.00	0.44
1:f:285:ARG:NH1	1:g:440:TYR:CE1	2.86	0.44
1:f:353:LEU:HD21	1:f:643:GLN:HG2	2.00	0.44
1:h:340:GLN:HG2	1:h:401:MET:HG2	2.00	0.44
1:l:507:HIS:HD2	1:l:512:ASP:OD1	2.00	0.44
1:m:440:TYR:CE1	1:n:285:ARG:NH1	2.86	0.44
1:n:353:LEU:HD21	1:n:643:GLN:HG2	2.00	0.44
1:r:393:CYS:SG	1:r:395:GLU:HB2	2.57	0.44
1:t:507:HIS:HD2	1:t:512:ASP:OD1	2.00	0.44
1:w:431:ARG:HD2	1:x:377:LEU:HD13	2.00	0.44
1:z:237:ARG:HG2	1:z:683:GLU:HA	1.99	0.44
1:z:431:ARG:HD2	1:1:377:LEU:HD13	2.00	0.44
1:z:583:ASN:OD1	1:z:586:ALA:N	2.40	0.44
1:z:652:PRO:HG3	1:4:368:VAL:HG11	2.00	0.44
1:5:285:ARG:NH1	1:7:440:TYR:CE1	2.86	0.44
1:5:353:LEU:HD21	1:5:643:GLN:HG2	2.00	0.44
1:5:393:CYS:SG	1:5:395:GLU:HB2	2.57	0.44
1:A:352:VAL:H	1:A:643:GLN:NE2	2.16	0.44
1:B:353:LEU:HD21	1:B:643:GLN:HG2	2.00	0.44
1:C:340:GLN:HG2	1:C:401:MET:HG2	2.00	0.44
1:C:377:LEU:HD21	1:M:435:PRO:HB3	1.99	0.44
1:C:393:CYS:SG	1:C:395:GLU:HB2	2.57	0.44
1:D:352:VAL:H	1:D:643:GLN:NE2	2.16	0.44
1:F:285:ARG:NH1	1:Q:440:TYR:CE1	2.86	0.44
1:F:303:TRP:HE3	1:F:731:ARG:HH21	1.62	0.44
1:F:652:PRO:HG3	1:R:368:VAL:HG11	2.00	0.44
1:H:353:LEU:HD21	1:H:643:GLN:HG2	2.00	0.44
1:J:431:ARG:HD2	1:L:377:LEU:HD13	2.00	0.44
1:J:561:GLU:OE2	1:K:702:TYR:OH	2.29	0.44
1:K:368:VAL:HG11	1:L:652:PRO:HG3	2.00	0.44
1:M:340:GLN:HG2	1:M:401:MET:HG2	2.00	0.44
1:M:353:LEU:HD21	1:M:643:GLN:HG2	2.00	0.44
1:N:507:HIS:HD2	1:N:512:ASP:OD1	2.00	0.44
1:N:651:VAL:HG12	1:N:668:ILE:HD12	1.99	0.44
1:P:507:HIS:HD2	1:P:512:ASP:OD1	2.00	0.44
1:R:507:HIS:HD2	1:R:512:ASP:OD1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:652:PRO:HG3	1:V:368:VAL:HG11	2.00	0.44
1:T:507:HIS:HD2	1:T:512:ASP:OD1	2.00	0.44
1:W:237:ARG:HG2	1:W:683:GLU:HA	1.99	0.44
1:X:401:MET:H	1:f:226:ASN:ND2	2.14	0.44
1:X:652:PRO:HG3	1:f:368:VAL:HG11	2.00	0.44
1:b:340:GLN:HG2	1:b:401:MET:HG2	2.00	0.44
1:d:353:LEU:HD21	1:d:643:GLN:HG2	2.00	0.44
1:d:431:ARG:HD2	1:l:377:LEU:HD13	2.00	0.44
1:f:340:GLN:HG2	1:f:401:MET:HG2	2.00	0.44
1:f:435:PRO:HB3	1:h:377:LEU:HD21	2.00	0.44
1:g:353:LEU:HD21	1:g:643:GLN:HG2	2.00	0.44
1:h:352:VAL:H	1:h:643:GLN:NE2	2.16	0.44
1:h:353:LEU:HD21	1:h:643:GLN:HG2	2.00	0.44
1:h:393:CYS:SG	1:h:395:GLU:HB2	2.57	0.44
1:i:507:HIS:HD2	1:i:512:ASP:OD1	2.00	0.44
1:j:237:ARG:HG2	1:j:683:GLU:HA	1.99	0.44
1:j:505:LYS:HD3	1:j:512:ASP:HB3	1.99	0.44
1:k:352:VAL:H	1:k:643:GLN:NE2	2.16	0.44
1:l:340:GLN:HG2	1:l:401:MET:HG2	2.00	0.44
1:m:431:ARG:HD2	1:n:377:LEU:HD13	2.00	0.44
1:m:507:HIS:HD2	1:m:512:ASP:OD1	2.00	0.44
1:o:484:GLN:HB3	1:o:534:MET:HE2	2.00	0.44
1:o:505:LYS:HD3	1:o:512:ASP:HB3	1.99	0.44
1:q:368:VAL:HG11	1:y:652:PRO:HG3	2.00	0.44
1:r:507:HIS:HD2	1:r:512:ASP:OD1	2.00	0.44
1:s:237:ARG:HG2	1:s:683:GLU:HA	1.99	0.44
1:v:352:VAL:H	1:v:643:GLN:NE2	2.16	0.44
1:w:237:ARG:HG2	1:w:683:GLU:HA	1.99	0.44
1:y:303:TRP:HE3	1:y:731:ARG:HH21	1.62	0.44
1:z:377:LEU:HD13	1:2:431:ARG:HD2	2.00	0.44
1:1:353:LEU:HD21	1:1:643:GLN:HG2	2.00	0.44
1:3:651:VAL:HG12	1:3:668:ILE:HD12	1.99	0.44
1:6:237:ARG:HG2	1:6:683:GLU:HA	1.99	0.44
1:7:651:VAL:HG12	1:7:668:ILE:HD12	1.99	0.44
1:8:651:VAL:HG12	1:8:668:ILE:HD12	1.99	0.44
1:A:340:GLN:HG2	1:A:401:MET:HG2	2.00	0.43
1:B:340:GLN:HG2	1:B:401:MET:HG2	2.00	0.43
1:B:377:LEU:HD13	1:L:431:ARG:HD2	2.00	0.43
1:C:353:LEU:HD21	1:C:643:GLN:HG2	2.00	0.43
1:C:377:LEU:HD13	1:M:431:ARG:HD2	2.00	0.43
1:C:440:TYR:CE1	1:b:285:ARG:NH1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:507:HIS:HD2	1:C:512:ASP:OD1	2.00	0.43
1:G:340:GLN:HG2	1:G:401:MET:HG2	2.00	0.43
1:J:440:TYR:CE1	1:L:285:ARG:NH1	2.86	0.43
1:K:431:ARG:HD2	1:a:377:LEU:HD13	2.00	0.43
1:M:352:VAL:H	1:M:643:GLN:NE2	2.16	0.43
1:N:340:GLN:HG2	1:N:401:MET:HG2	2.00	0.43
1:O:340:GLN:HG2	1:O:401:MET:HG2	2.00	0.43
1:O:507:HIS:HD2	1:O:512:ASP:OD1	2.00	0.43
1:R:353:LEU:HD21	1:R:643:GLN:HG2	2.00	0.43
1:R:401:MET:H	1:V:226:ASN:ND2	2.12	0.43
1:S:393:CYS:SG	1:S:395:GLU:HB2	2.57	0.43
1:S:507:HIS:HD2	1:S:512:ASP:OD1	2.00	0.43
1:T:431:ARG:HD2	1:d:377:LEU:HD13	2.00	0.43
1:U:237:ARG:HG2	1:U:683:GLU:HA	1.99	0.43
1:X:353:LEU:HD21	1:X:643:GLN:HG2	2.00	0.43
1:Y:651:VAL:HG12	1:Y:668:ILE:HD12	1.99	0.43
1:Z:431:ARG:HD2	1:4:377:LEU:HD13	2.00	0.43
1:c:237:ARG:HG2	1:c:683:GLU:HA	1.99	0.43
1:c:431:ARG:HD2	1:o:377:LEU:HD13	2.00	0.43
1:c:651:VAL:HG12	1:c:668:ILE:HD12	1.99	0.43
1:e:237:ARG:HG2	1:e:683:GLU:HA	1.99	0.43
1:f:440:TYR:CE1	1:h:285:ARG:NH1	2.86	0.43
1:g:285:ARG:NH1	1:h:440:TYR:CE1	2.86	0.43
1:g:340:GLN:HG2	1:g:401:MET:HG2	2.00	0.43
1:g:393:CYS:SG	1:g:395:GLU:HB2	2.57	0.43
1:h:364:PHE:HA	1:h:365:PRO:HD3	1.91	0.43
1:i:353:LEU:HD21	1:i:643:GLN:HG2	2.00	0.43
1:i:651:VAL:HG12	1:i:668:ILE:HD12	1.99	0.43
1:j:352:VAL:H	1:j:643:GLN:NE2	2.16	0.43
1:k:652:PRO:HG3	1:w:368:VAL:HG11	2.00	0.43
1:l:364:PHE:HA	1:l:365:PRO:HD3	1.91	0.43
1:l:651:VAL:HG12	1:l:668:ILE:HD12	1.99	0.43
1:n:237:ARG:HG2	1:n:683:GLU:HA	1.99	0.43
1:n:652:PRO:HG3	1:r:368:VAL:HG11	2.00	0.43
1:q:340:GLN:HG2	1:q:401:MET:HG2	2.00	0.43
1:q:505:LYS:HD3	1:q:512:ASP:HB3	1.99	0.43
1:q:507:HIS:HD2	1:q:512:ASP:OD1	2.00	0.43
1:s:579:ASN:OD1	1:s:589:THR:OG1	2.23	0.43
1:t:340:GLN:HG2	1:t:401:MET:HG2	2.00	0.43
1:v:340:GLN:HG2	1:v:401:MET:HG2	2.00	0.43
1:3:377:LEU:HD13	1:4:431:ARG:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:340:GLN:HG2	1:4:401:MET:HG2	2.00	0.43
1:5:507:HIS:HD2	1:5:512:ASP:OD1	2.00	0.43
1:B:440:TYR:CE1	1:J:285:ARG:NH1	2.87	0.43
1:C:484:GLN:HB3	1:C:534:MET:HE2	2.01	0.43
1:C:583:ASN:OD1	1:C:586:ALA:N	2.40	0.43
1:D:652:PRO:HG3	1:E:368:VAL:HG11	2.00	0.43
1:E:285:ARG:NH1	1:F:440:TYR:CE1	2.87	0.43
1:G:368:VAL:HG11	1:W:652:PRO:HG3	2.00	0.43
1:G:431:ARG:HD2	1:I:377:LEU:HD13	2.00	0.43
1:H:368:VAL:HG11	1:I:652:PRO:HG3	2.00	0.43
1:H:507:HIS:HD2	1:H:512:ASP:OD1	2.00	0.43
1:K:340:GLN:HG2	1:K:401:MET:HG2	2.00	0.43
1:K:377:LEU:HD13	1:8:431:ARG:HD2	2.00	0.43
1:M:364:PHE:HA	1:M:365:PRO:HD3	1.91	0.43
1:M:393:CYS:SG	1:M:395:GLU:HB2	2.57	0.43
1:M:652:PRO:HG3	1:c:368:VAL:HG11	2.00	0.43
1:N:353:LEU:HD21	1:N:643:GLN:HG2	2.00	0.43
1:O:440:TYR:CE1	1:m:285:ARG:NH1	2.87	0.43
1:O:651:VAL:HG12	1:O:668:ILE:HD12	1.99	0.43
1:P:484:GLN:HB3	1:P:534:MET:HE2	2.01	0.43
1:R:340:GLN:HG2	1:R:401:MET:HG2	2.00	0.43
1:R:505:LYS:HD3	1:R:512:ASP:HB3	1.99	0.43
1:S:352:VAL:H	1:S:643:GLN:NE2	2.16	0.43
1:S:368:VAL:HG11	1:d:652:PRO:HG3	2.00	0.43
1:T:285:ARG:NH1	1:l:440:TYR:CE1	2.87	0.43
1:T:352:VAL:H	1:T:643:GLN:NE2	2.16	0.43
1:T:622:THR:HB	1:l:604:TRP:O	2.17	0.43
1:V:352:VAL:H	1:V:643:GLN:NE2	2.17	0.43
1:Y:353:LEU:HD21	1:Y:643:GLN:HG2	2.00	0.43
1:Z:377:LEU:HD21	1:3:435:PRO:HB3	1.99	0.43
1:a:435:PRO:HB3	1:8:377:LEU:HD21	1.99	0.43
1:d:237:ARG:HG2	1:d:683:GLU:HA	1.99	0.43
1:d:393:CYS:SG	1:d:395:GLU:HB2	2.57	0.43
1:e:651:VAL:HG12	1:e:668:ILE:HD12	1.99	0.43
1:g:484:GLN:HB3	1:g:534:MET:HE2	2.01	0.43
1:j:507:HIS:HD2	1:j:512:ASP:OD1	2.00	0.43
1:m:352:VAL:H	1:m:643:GLN:NE2	2.16	0.43
1:p:352:VAL:H	1:p:643:GLN:NE2	2.17	0.43
1:q:353:LEU:HD21	1:q:643:GLN:HG2	2.00	0.43
1:r:352:VAL:H	1:r:643:GLN:NE2	2.16	0.43
1:u:431:ARG:HD2	1:v:377:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:652:PRO:HG3	1:5:368:VAL:HG11	2.00	0.43
1:v:652:PRO:HG3	1:1:368:VAL:HG11	2.00	0.43
1:w:285:ARG:NH1	1:y:440:TYR:CE1	2.87	0.43
1:x:440:TYR:CE1	1:y:285:ARG:NH1	2.86	0.43
1:z:285:ARG:NH1	1:2:440:TYR:CE1	2.86	0.43
1:1:440:TYR:CE1	1:2:285:ARG:NH1	2.87	0.43
1:7:353:LEU:HD21	1:7:643:GLN:HG2	2.00	0.43
1:8:393:CYS:SG	1:8:395:GLU:HB2	2.57	0.43
1:8:505:LYS:HD3	1:8:512:ASP:HB3	1.99	0.43
1:A:652:PRO:HG3	1:B:368:VAL:HG11	2.00	0.43
1:C:505:LYS:HD3	1:C:512:ASP:HB3	1.99	0.43
1:D:285:ARG:NH1	1:P:440:TYR:CE1	2.86	0.43
1:K:440:TYR:CE1	1:a:285:ARG:NH1	2.86	0.43
1:L:352:VAL:H	1:L:643:GLN:NE2	2.16	0.43
1:P:352:VAL:H	1:P:643:GLN:NE2	2.16	0.43
1:R:583:ASN:OD1	1:R:586:ALA:N	2.40	0.43
1:W:484:GLN:HB3	1:W:534:MET:HE2	2.01	0.43
1:X:484:GLN:HB3	1:X:534:MET:HE2	2.01	0.43
1:Y:340:GLN:HG2	1:Y:401:MET:HG2	2.00	0.43
1:Z:393:CYS:SG	1:Z:395:GLU:HB2	2.57	0.43
1:Z:505:LYS:HD3	1:Z:512:ASP:HB3	1.99	0.43
1:c:340:GLN:HG2	1:c:401:MET:HG2	2.00	0.43
1:c:652:PRO:HG3	1:s:368:VAL:HG11	2.00	0.43
1:d:505:LYS:HD3	1:d:512:ASP:HB3	1.99	0.43
1:e:340:GLN:HG2	1:e:401:MET:HG2	2.00	0.43
1:g:368:VAL:HG11	1:1:652:PRO:HG3	1.99	0.43
1:g:505:LYS:HD3	1:g:512:ASP:HB3	1.99	0.43
1:g:507:HIS:HD2	1:g:512:ASP:OD1	2.00	0.43
1:i:340:GLN:HG2	1:i:401:MET:HG2	2.00	0.43
1:j:440:TYR:CE1	1:k:285:ARG:NH1	2.87	0.43
1:j:484:GLN:HB3	1:j:534:MET:HE2	2.01	0.43
1:n:393:CYS:SG	1:n:395:GLU:HB2	2.57	0.43
1:n:484:GLN:HB3	1:n:534:MET:HE2	2.01	0.43
1:t:368:VAL:HG11	1:6:652:PRO:HG3	2.00	0.43
1:z:352:VAL:H	1:z:643:GLN:NE2	2.16	0.43
1:1:340:GLN:HG2	1:1:401:MET:HG2	2.00	0.43
1:1:435:PRO:HB3	1:2:377:LEU:HD21	1.98	0.43
1:3:285:ARG:NH1	1:4:440:TYR:CE1	2.86	0.43
1:6:484:GLN:HB3	1:6:534:MET:HE2	2.01	0.43
1:8:340:GLN:HG2	1:8:401:MET:HG2	2.00	0.43
1:A:368:VAL:HG11	1:E:652:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:435:PRO:HB3	1:J:377:LEU:HD21	1.98	0.43
1:B:652:PRO:HG3	1:C:368:VAL:HG11	1.99	0.43
1:H:583:ASN:OD1	1:H:586:ALA:N	2.40	0.43
1:J:251:TYR:OH	1:J:371:VAL:O	2.26	0.43
1:J:352:VAL:H	1:J:643:GLN:NE2	2.16	0.43
1:J:368:VAL:HG11	1:a:652:PRO:HG3	2.00	0.43
1:L:353:LEU:HD21	1:L:643:GLN:HG2	2.00	0.43
1:N:352:VAL:H	1:N:643:GLN:NE2	2.16	0.43
1:O:353:LEU:HD21	1:O:643:GLN:HG2	2.00	0.43
1:O:604:TRP:O	1:m:622:THR:HB	2.17	0.43
1:O:652:PRO:HG3	1:d:368:VAL:HG11	2.00	0.43
1:R:484:GLN:HB3	1:R:534:MET:HE2	2.01	0.43
1:U:368:VAL:HG11	1:e:652:PRO:HG3	2.00	0.43
1:W:440:TYR:CE1	1:Y:285:ARG:NH1	2.86	0.43
1:Z:340:GLN:HG2	1:Z:401:MET:HG2	2.00	0.43
1:Z:484:GLN:HB3	1:Z:534:MET:HE2	2.01	0.43
1:a:352:VAL:H	1:a:643:GLN:NE2	2.16	0.43
1:b:484:GLN:HB3	1:b:534:MET:HE2	2.01	0.43
1:d:484:GLN:HB3	1:d:534:MET:HE2	2.01	0.43
1:f:484:GLN:HB3	1:f:534:MET:HE2	2.01	0.43
1:i:352:VAL:H	1:i:643:GLN:NE2	2.16	0.43
1:i:377:LEU:HD13	1:k:431:ARG:HD2	1.99	0.43
1:i:435:PRO:HB3	1:j:377:LEU:HD21	1.99	0.43
1:l:353:LEU:HD21	1:l:643:GLN:HG2	2.00	0.43
1:l:652:PRO:HG3	1:n:368:VAL:HG11	2.00	0.43
1:n:505:LYS:HD3	1:n:512:ASP:HB3	1.99	0.43
1:o:440:TYR:CE1	1:p:285:ARG:NH1	2.86	0.43
1:s:577:VAL:O	1:s:591:GLY:N	2.46	0.43
1:z:353:LEU:HD21	1:z:643:GLN:HG2	2.00	0.43
1:2:368:VAL:HG11	1:3:652:PRO:HG3	2.00	0.43
1:6:440:TYR:CE1	1:7:285:ARG:NH1	2.86	0.43
1:7:340:GLN:HG2	1:7:401:MET:HG2	2.00	0.43
1:8:352:VAL:H	1:8:643:GLN:NE2	2.16	0.43
1:A:377:LEU:HD13	1:I:431:ARG:HD2	2.00	0.43
1:B:431:ARG:HD2	1:J:377:LEU:HD13	2.00	0.43
1:B:484:GLN:HB3	1:B:534:MET:HE2	2.01	0.43
1:C:702:TYR:OH	1:L:561:GLU:OE2	2.29	0.43
1:D:431:ARG:HD2	1:N:377:LEU:HD13	1.99	0.43
1:E:340:GLN:HG2	1:E:401:MET:HG2	2.00	0.43
1:E:440:TYR:CE1	1:Q:285:ARG:NH1	2.87	0.43
1:F:368:VAL:HG11	1:G:652:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:401:MET:H	1:R:226:ASN:ND2	2.13	0.43
1:J:577:VAL:O	1:J:591:GLY:N	2.46	0.43
1:K:285:ARG:NH1	1:8:440:TYR:CE1	2.87	0.43
1:M:285:ARG:NH1	1:b:440:TYR:CE1	2.86	0.43
1:N:440:TYR:CE1	1:P:285:ARG:NH1	2.86	0.43
1:O:285:ARG:NH1	1:n:440:TYR:CE1	2.86	0.43
1:O:352:VAL:H	1:O:643:GLN:NE2	2.16	0.43
1:R:377:LEU:HD13	1:U:431:ARG:HD2	2.00	0.43
1:T:353:LEU:HD21	1:T:643:GLN:HG2	2.00	0.43
1:Z:352:VAL:H	1:Z:643:GLN:NE2	2.16	0.43
1:Z:440:TYR:CE1	1:4:285:ARG:NH1	2.87	0.43
1:c:484:GLN:HB3	1:c:534:MET:HE2	2.01	0.43
1:d:440:TYR:CE1	1:l:285:ARG:NH1	2.86	0.43
1:e:484:GLN:HB3	1:e:534:MET:HE2	2.01	0.43
1:h:237:ARG:HG2	1:h:683:GLU:HA	1.99	0.43
1:m:340:GLN:HG2	1:m:401:MET:HG2	2.00	0.43
1:p:353:LEU:HD21	1:p:643:GLN:HG2	2.00	0.43
1:q:226:ASN:ND2	1:y:401:MET:H	2.13	0.43
1:q:377:LEU:HD13	1:s:431:ARG:HD2	2.00	0.43
1:q:484:GLN:HB3	1:q:534:MET:HE2	2.01	0.43
1:q:583:ASN:OD1	1:q:586:ALA:N	2.40	0.43
1:r:340:GLN:HG2	1:r:401:MET:HG2	2.00	0.43
1:w:340:GLN:HG2	1:w:401:MET:HG2	2.00	0.43
1:y:340:GLN:HG2	1:y:401:MET:HG2	2.00	0.43
1:1:352:VAL:H	1:1:643:GLN:NE2	2.16	0.43
1:1:431:ARG:HD2	1:2:377:LEU:HD13	2.00	0.43
1:2:352:VAL:H	1:2:643:GLN:NE2	2.16	0.43
1:3:226:ASN:ND2	1:8:401:MET:H	2.12	0.43
1:3:352:VAL:H	1:3:643:GLN:NE2	2.16	0.43
1:3:353:LEU:HD21	1:3:643:GLN:HG2	2.00	0.43
1:5:352:VAL:H	1:5:643:GLN:NE2	2.16	0.43
1:6:352:VAL:H	1:6:643:GLN:NE2	2.16	0.43
1:8:484:GLN:HB3	1:8:534:MET:HE2	2.01	0.43
1:8:583:ASN:OD1	1:8:586:ALA:N	2.40	0.43
1:B:352:VAL:H	1:B:643:GLN:NE2	2.16	0.43
1:C:364:PHE:HA	1:C:365:PRO:HD3	1.91	0.43
1:F:340:GLN:HG2	1:F:401:MET:HG2	2.00	0.43
1:H:226:ASN:ND2	1:I:401:MET:H	2.12	0.43
1:H:352:VAL:H	1:H:643:GLN:NE2	2.16	0.43
1:H:440:TYR:CE1	1:W:285:ARG:NH1	2.86	0.43
1:I:368:VAL:HG11	1:J:652:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:652:PRO:HG3	1:7:368:VAL:HG11	2.00	0.43
1:M:237:ARG:HG2	1:M:683:GLU:HA	1.99	0.43
1:N:435:PRO:HB3	1:P:377:LEU:HD21	1.99	0.43
1:Q:484:GLN:HB3	1:Q:534:MET:HE2	2.01	0.43
1:R:431:ARG:HD2	1:S:377:LEU:HD13	2.00	0.43
1:S:340:GLN:HG2	1:S:401:MET:HG2	2.00	0.43
1:T:340:GLN:HG2	1:T:401:MET:HG2	2.00	0.43
1:V:401:MET:H	1:W:226:ASN:ND2	2.13	0.43
1:W:352:VAL:H	1:W:643:GLN:NE2	2.16	0.43
1:X:285:ARG:NH1	1:e:440:TYR:CE1	2.86	0.43
1:Y:484:GLN:HB3	1:Y:534:MET:HE2	2.00	0.43
1:a:353:LEU:HD21	1:a:643:GLN:HG2	2.00	0.43
1:a:507:HIS:HD2	1:a:512:ASP:OD1	2.00	0.43
1:b:368:VAL:HG11	1:o:652:PRO:HG3	2.00	0.43
1:l:352:VAL:H	1:l:643:GLN:NE2	2.16	0.43
1:q:431:ARG:HD2	1:r:377:LEU:HD13	2.00	0.43
1:t:652:PRO:HG3	1:y:368:VAL:HG11	2.00	0.43
1:u:368:VAL:HG11	1:2:652:PRO:HG3	2.00	0.43
1:w:440:TYR:CE1	1:x:285:ARG:NH1	2.87	0.43
1:1:484:GLN:HB3	1:1:534:MET:HE2	2.01	0.43
1:2:505:LYS:HD3	1:2:512:ASP:HB3	1.99	0.43
1:2:577:VAL:O	1:2:591:GLY:N	2.46	0.43
1:4:352:VAL:H	1:4:643:GLN:NE2	2.16	0.43
1:5:484:GLN:HB3	1:5:534:MET:HE2	2.01	0.43
1:7:484:GLN:HB3	1:7:534:MET:HE2	2.01	0.43
1:G:267:ASN:HA	1:G:270:HIS:CD2	2.54	0.43
1:H:267:ASN:HA	1:H:270:HIS:CD2	2.54	0.43
1:H:484:GLN:HB3	1:H:534:MET:HE2	2.01	0.43
1:I:340:GLN:HG2	1:I:401:MET:HG2	2.00	0.43
1:J:484:GLN:HB3	1:J:534:MET:HE2	2.01	0.43
1:K:352:VAL:H	1:K:643:GLN:NE2	2.16	0.43
1:O:318:GLN:NE2	1:P:337:SER:HA	2.34	0.43
1:R:285:ARG:NH1	1:U:440:TYR:CE1	2.86	0.43
1:R:352:VAL:H	1:R:643:GLN:NE2	2.16	0.43
1:T:652:PRO:HG3	1:i:368:VAL:HG11	2.00	0.43
1:U:577:VAL:O	1:U:591:GLY:N	2.46	0.43
1:U:579:ASN:OD1	1:U:589:THR:OG1	2.23	0.43
1:V:353:LEU:HD21	1:V:643:GLN:HG2	2.00	0.43
1:V:431:ARG:HD2	1:e:377:LEU:HD13	2.00	0.43
1:V:484:GLN:HB3	1:V:534:MET:HE2	2.01	0.43
1:W:353:LEU:HD21	1:W:643:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:267:ASN:HA	1:c:270:HIS:CD2	2.54	0.43
1:c:377:LEU:HD13	1:p:431:ARG:HD2	1.99	0.43
1:c:440:TYR:CE1	1:o:285:ARG:NH1	2.86	0.43
1:e:267:ASN:HA	1:e:270:HIS:CD2	2.54	0.43
1:f:431:ARG:HD2	1:h:377:LEU:HD13	1.99	0.43
1:g:702:TYR:OH	1:z:561:GLU:OE2	2.29	0.43
1:i:285:ARG:NH1	1:k:440:TYR:CE1	2.86	0.43
1:i:440:TYR:CE1	1:j:285:ARG:NH1	2.86	0.43
1:j:337:SER:HA	1:l:318:GLN:NE2	2.34	0.43
1:j:340:GLN:HG2	1:j:401:MET:HG2	2.00	0.43
1:k:237:ARG:HG2	1:k:683:GLU:HA	1.99	0.43
1:k:271:TYR:HA	1:k:380:ASN:HD22	1.84	0.43
1:m:303:TRP:HE3	1:m:731:ARG:HH21	1.62	0.43
1:m:353:LEU:HD21	1:m:643:GLN:HG2	2.00	0.43
1:p:401:MET:H	1:6:226:ASN:ND2	2.13	0.43
1:q:285:ARG:NH1	1:s:440:TYR:CE1	2.86	0.43
1:t:431:ARG:HD2	1:u:377:LEU:HD13	2.00	0.43
1:u:340:GLN:HG2	1:u:401:MET:HG2	2.00	0.43
1:w:352:VAL:H	1:w:643:GLN:NE2	2.16	0.43
1:x:484:GLN:HB3	1:x:534:MET:HE2	2.01	0.43
1:2:353:LEU:HD21	1:2:643:GLN:HG2	2.00	0.43
1:5:267:ASN:HA	1:5:270:HIS:CD2	2.54	0.43
1:5:440:TYR:CE1	1:6:285:ARG:NH1	2.86	0.43
1:6:353:LEU:HD21	1:6:643:GLN:HG2	2.00	0.43
1:D:271:TYR:HA	1:D:380:ASN:HD22	1.84	0.43
1:D:623:ASP:CG	1:P:421:SER:HG	2.23	0.43
1:E:352:VAL:H	1:E:643:GLN:NE2	2.16	0.43
1:H:271:TYR:HA	1:H:380:ASN:HD22	1.84	0.43
1:H:340:GLN:HG2	1:H:401:MET:HG2	2.00	0.43
1:H:505:LYS:HD3	1:H:512:ASP:HB3	1.99	0.43
1:I:352:VAL:H	1:I:643:GLN:NE2	2.16	0.43
1:J:353:LEU:HD21	1:J:643:GLN:HG2	2.00	0.43
1:L:340:GLN:HG2	1:L:401:MET:HG2	2.00	0.43
1:M:484:GLN:HB3	1:M:534:MET:HE2	2.01	0.43
1:N:368:VAL:HG11	1:m:652:PRO:HG3	2.00	0.43
1:N:484:GLN:HB3	1:N:534:MET:HE2	2.01	0.43
1:P:340:GLN:HG2	1:P:401:MET:HG2	2.00	0.43
1:T:303:TRP:HE3	1:T:731:ARG:HH21	1.62	0.43
1:T:318:GLN:NE2	1:U:337:SER:HA	2.34	0.43
1:W:271:TYR:HA	1:W:380:ASN:HD22	1.84	0.43
1:Y:368:VAL:HG11	1:4:652:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:353:LEU:HD21	1:Z:643:GLN:HG2	2.00	0.43
1:Z:401:MET:H	1:a:226:ASN:ND2	2.12	0.43
1:f:364:PHE:HA	1:f:365:PRO:HD3	1.91	0.43
1:g:364:PHE:HA	1:g:365:PRO:HD3	1.91	0.43
1:h:368:VAL:HG11	1:i:652:PRO:HG3	2.01	0.43
1:i:484:GLN:HB3	1:i:534:MET:HE2	2.01	0.43
1:p:484:GLN:HB3	1:p:534:MET:HE2	2.01	0.43
1:t:267:ASN:HA	1:t:270:HIS:CD2	2.54	0.43
1:u:352:VAL:H	1:u:643:GLN:NE2	2.16	0.43
1:v:368:VAL:HG11	1:w:652:PRO:HG3	2.00	0.43
1:y:484:GLN:HB3	1:y:534:MET:HE2	2.01	0.43
1:z:340:GLN:HG2	1:z:401:MET:HG2	2.00	0.43
1:2:484:GLN:HB3	1:2:534:MET:HE2	2.01	0.43
1:3:507:HIS:HD2	1:3:512:ASP:OD1	2.00	0.43
1:5:505:LYS:HD3	1:5:512:ASP:HB3	1.99	0.43
1:8:267:ASN:HA	1:8:270:HIS:CD2	2.54	0.43
1:A:267:ASN:HA	1:A:270:HIS:CD2	2.54	0.43
1:A:431:ARG:HD2	1:G:377:LEU:HD13	2.00	0.43
1:D:237:ARG:HG2	1:D:683:GLU:HA	1.99	0.43
1:D:337:SER:HA	1:E:318:GLN:NE2	2.34	0.43
1:D:440:TYR:CE1	1:N:285:ARG:NH1	2.86	0.43
1:F:484:GLN:HB3	1:F:534:MET:HE2	2.01	0.43
1:G:433:MET:SD	1:G:468:MET:HG2	2.59	0.43
1:G:440:TYR:CE1	1:I:285:ARG:NH1	2.87	0.43
1:H:337:SER:HA	1:Z:318:GLN:NE2	2.34	0.43
1:H:652:PRO:HG3	1:Z:368:VAL:HG11	2.00	0.43
1:I:267:ASN:HA	1:I:270:HIS:CD2	2.54	0.43
1:I:353:LEU:HD21	1:I:643:GLN:HG2	2.00	0.43
1:J:505:LYS:HD3	1:J:512:ASP:HB3	1.99	0.43
1:M:337:SER:HA	1:c:318:GLN:NE2	2.34	0.43
1:O:368:VAL:HG11	1:P:652:PRO:HG3	2.00	0.43
1:P:267:ASN:HA	1:P:270:HIS:CD2	2.54	0.43
1:P:353:LEU:HD21	1:P:643:GLN:HG2	2.00	0.43
1:T:267:ASN:HA	1:T:270:HIS:CD2	2.54	0.43
1:V:652:PRO:HG3	1:W:368:VAL:HG11	2.00	0.43
1:X:352:VAL:H	1:X:643:GLN:NE2	2.16	0.43
1:X:417:VAL:HG21	1:X:635:PHE:HB3	2.01	0.43
1:Z:267:ASN:HA	1:Z:270:HIS:CD2	2.54	0.43
1:Z:285:ARG:NH1	1:3:440:TYR:CE1	2.86	0.43
1:c:352:VAL:H	1:c:643:GLN:NE2	2.16	0.43
1:j:353:LEU:HD21	1:j:643:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:652:PRO:HG3	1:l:368:VAL:HG11	2.00	0.43
1:k:337:SER:HA	1:w:318:GLN:NE2	2.34	0.43
1:m:318:GLN:NE2	1:s:337:SER:HA	2.34	0.43
1:n:352:VAL:H	1:n:643:GLN:NE2	2.16	0.43
1:o:352:VAL:H	1:o:643:GLN:NE2	2.16	0.43
1:o:417:VAL:HG21	1:o:635:PHE:HB3	2.01	0.43
1:p:652:PRO:HG3	1:6:368:VAL:HG11	2.00	0.43
1:q:352:VAL:H	1:q:643:GLN:NE2	2.16	0.43
1:s:340:GLN:HG2	1:s:401:MET:HG2	2.00	0.43
1:t:271:TYR:HA	1:t:380:ASN:HD22	1.84	0.43
1:t:377:LEU:HD13	1:v:431:ARG:HD2	2.00	0.43
1:u:267:ASN:HA	1:u:270:HIS:CD2	2.54	0.43
1:u:271:TYR:HA	1:u:380:ASN:HD22	1.84	0.43
1:v:267:ASN:HA	1:v:270:HIS:CD2	2.54	0.43
1:w:484:GLN:HB3	1:w:534:MET:HE2	2.01	0.43
1:y:353:LEU:HD21	1:y:643:GLN:HG2	2.00	0.43
1:z:267:ASN:HA	1:z:270:HIS:CD2	2.54	0.43
1:5:271:TYR:HA	1:5:380:ASN:HD22	1.84	0.43
1:5:337:SER:HA	1:8:318:GLN:NE2	2.34	0.43
1:5:583:ASN:OD1	1:5:586:ALA:N	2.40	0.43
1:5:652:PRO:HG3	1:8:368:VAL:HG11	2.00	0.43
1:6:433:MET:SD	1:6:468:MET:HG2	2.59	0.43
1:8:353:LEU:HD21	1:8:643:GLN:HG2	2.00	0.43
1:B:285:ARG:NH1	1:L:440:TYR:CE1	2.86	0.43
1:D:417:VAL:HG21	1:D:635:PHE:HB3	2.01	0.43
1:E:417:VAL:HG21	1:E:635:PHE:HB3	2.01	0.43
1:E:484:GLN:HB3	1:E:534:MET:HE2	2.01	0.43
1:F:267:ASN:HA	1:F:270:HIS:CD2	2.54	0.43
1:F:353:LEU:HD21	1:F:643:GLN:HG2	2.00	0.43
1:G:271:TYR:HA	1:G:380:ASN:HD22	1.84	0.43
1:H:433:MET:SD	1:H:468:MET:HG2	2.59	0.43
1:I:271:TYR:HA	1:I:380:ASN:HD22	1.84	0.43
1:L:267:ASN:HA	1:L:270:HIS:CD2	2.54	0.43
1:L:433:MET:SD	1:L:468:MET:HG2	2.59	0.43
1:P:417:VAL:HG21	1:P:635:PHE:HB3	2.01	0.43
1:S:618:LYS:HB2	1:S:640:PRO:HG3	2.01	0.43
1:U:340:GLN:HG2	1:U:401:MET:HG2	2.00	0.43
1:U:353:LEU:HD21	1:U:643:GLN:HG2	2.00	0.43
1:Z:337:SER:HA	1:a:318:GLN:NE2	2.34	0.43
1:a:440:TYR:CE1	1:8:285:ARG:NH1	2.86	0.43
1:b:433:MET:SD	1:b:468:MET:HG2	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:352:VAL:H	1:d:643:GLN:NE2	2.16	0.43
1:d:417:VAL:HG21	1:d:635:PHE:HB3	2.01	0.43
1:f:433:MET:SD	1:f:468:MET:HG2	2.59	0.43
1:j:267:ASN:HA	1:j:270:HIS:CD2	2.54	0.43
1:k:267:ASN:HA	1:k:270:HIS:CD2	2.54	0.43
1:k:353:LEU:HD21	1:k:643:GLN:HG2	2.00	0.43
1:k:417:VAL:HG21	1:k:635:PHE:HB3	2.01	0.43
1:m:267:ASN:HA	1:m:270:HIS:CD2	2.54	0.43
1:m:417:VAL:HG21	1:m:635:PHE:HB3	2.01	0.43
1:n:417:VAL:HG21	1:n:635:PHE:HB3	2.01	0.43
1:q:618:LYS:HB2	1:q:640:PRO:HG3	2.01	0.43
1:r:618:LYS:HB2	1:r:640:PRO:HG3	2.01	0.43
1:s:353:LEU:HD21	1:s:643:GLN:HG2	2.00	0.43
1:t:433:MET:SD	1:t:468:MET:HG2	2.59	0.43
1:u:401:MET:H	1:5:226:ASN:ND2	2.12	0.43
1:w:417:VAL:HG21	1:w:635:PHE:HB3	2.01	0.43
1:w:433:MET:SD	1:w:468:MET:HG2	2.59	0.43
1:3:237:ARG:HG2	1:3:683:GLU:HA	1.99	0.43
1:3:267:ASN:HA	1:3:270:HIS:CD2	2.54	0.43
1:3:318:GLN:NE2	1:8:337:SER:HA	2.34	0.43
1:5:340:GLN:HG2	1:5:401:MET:HG2	2.00	0.43
1:6:271:TYR:HA	1:6:380:ASN:HD22	1.84	0.43
1:C:285:ARG:NH1	1:M:440:TYR:CE1	2.87	0.42
1:C:337:SER:HA	1:D:318:GLN:NE2	2.34	0.42
1:E:433:MET:SD	1:E:468:MET:HG2	2.59	0.42
1:M:318:GLN:NE2	1:N:337:SER:HA	2.34	0.42
1:M:506:TYR:CZ	1:M:513:SER:HB3	2.54	0.42
1:O:431:ARG:HD2	1:m:377:LEU:HD13	2.00	0.42
1:Q:352:VAL:H	1:Q:643:GLN:NE2	2.16	0.42
1:R:337:SER:HA	1:V:318:GLN:NE2	2.34	0.42
1:R:618:LYS:HB2	1:R:640:PRO:HG3	2.01	0.42
1:S:440:TYR:CE1	1:U:285:ARG:NH1	2.86	0.42
1:S:484:GLN:HB3	1:S:534:MET:HE2	2.01	0.42
1:T:377:LEU:HD13	1:l:431:ARG:HD2	2.00	0.42
1:T:417:VAL:HG21	1:T:635:PHE:HB3	2.01	0.42
1:V:267:ASN:HA	1:V:270:HIS:CD2	2.54	0.42
1:V:337:SER:HA	1:W:318:GLN:NE2	2.34	0.42
1:W:433:MET:SD	1:W:468:MET:HG2	2.59	0.42
1:Z:618:LYS:HB2	1:Z:640:PRO:HG3	2.01	0.42
1:a:267:ASN:HA	1:a:270:HIS:CD2	2.54	0.42
1:a:417:VAL:HG21	1:a:635:PHE:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:352:VAL:H	1:b:643:GLN:NE2	2.16	0.42
1:e:352:VAL:H	1:e:643:GLN:NE2	2.16	0.42
1:h:226:ASN:ND2	1:i:401:MET:H	2.14	0.42
1:h:417:VAL:HG21	1:h:635:PHE:HB3	2.01	0.42
1:h:484:GLN:HB3	1:h:534:MET:HE2	2.01	0.42
1:h:506:TYR:CZ	1:h:513:SER:HB3	2.55	0.42
1:j:417:VAL:HG21	1:j:635:PHE:HB3	2.01	0.42
1:j:421:SER:HG	1:k:623:ASP:CG	2.23	0.42
1:m:433:MET:SD	1:m:468:MET:HG2	2.59	0.42
1:m:618:LYS:HB2	1:m:640:PRO:HG3	2.01	0.42
1:o:318:GLN:NE2	1:7:337:SER:HA	2.34	0.42
1:p:267:ASN:HA	1:p:270:HIS:CD2	2.54	0.42
1:r:337:SER:HA	1:x:318:GLN:NE2	2.34	0.42
1:r:447:THR:HG1	1:s:498:PHE:H	1.66	0.42
1:r:484:GLN:HB3	1:r:534:MET:HE2	2.01	0.42
1:s:506:TYR:CZ	1:s:513:SER:HB3	2.54	0.42
1:u:318:GLN:NE2	1:2:337:SER:HA	2.34	0.42
1:u:353:LEU:HD21	1:u:643:GLN:HG2	2.00	0.42
1:u:691:ARG:HD3	1:u:695:GLU:CG	2.50	0.42
1:w:506:TYR:CZ	1:w:513:SER:HB3	2.54	0.42
1:x:352:VAL:H	1:x:643:GLN:NE2	2.16	0.42
1:x:433:MET:SD	1:x:468:MET:HG2	2.59	0.42
1:y:267:ASN:HA	1:y:270:HIS:CD2	2.54	0.42
1:z:433:MET:SD	1:z:468:MET:HG2	2.59	0.42
1:z:440:TYR:CE1	1:1:285:ARG:NH1	2.86	0.42
1:z:577:VAL:O	1:z:591:GLY:N	2.46	0.42
1:1:267:ASN:HA	1:1:270:HIS:CD2	2.54	0.42
1:1:579:ASN:OD1	1:1:589:THR:OG1	2.23	0.42
1:5:433:MET:SD	1:5:468:MET:HG2	2.59	0.42
1:7:251:TYR:OH	1:7:371:VAL:O	2.26	0.42
1:7:618:LYS:HB2	1:7:640:PRO:HG3	2.01	0.42
1:8:618:LYS:HB2	1:8:640:PRO:HG3	2.01	0.42
1:A:337:SER:HA	1:B:318:GLN:NE2	2.34	0.42
1:B:267:ASN:HA	1:B:270:HIS:CD2	2.54	0.42
1:C:577:VAL:O	1:C:591:GLY:N	2.46	0.42
1:D:267:ASN:HA	1:D:270:HIS:CD2	2.54	0.42
1:D:353:LEU:HD21	1:D:643:GLN:HG2	2.00	0.42
1:E:271:TYR:HA	1:E:380:ASN:HD22	1.84	0.42
1:E:506:TYR:CZ	1:E:513:SER:HB3	2.54	0.42
1:H:618:LYS:HB2	1:H:640:PRO:HG3	2.01	0.42
1:I:691:ARG:HD3	1:I:695:GLU:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:267:ASN:HA	1:J:270:HIS:CD2	2.54	0.42
1:J:433:MET:SD	1:J:468:MET:HG2	2.60	0.42
1:K:353:LEU:HD21	1:K:643:GLN:HG2	2.00	0.42
1:L:271:TYR:HA	1:L:380:ASN:HD22	1.84	0.42
1:N:506:TYR:CZ	1:N:513:SER:HB3	2.54	0.42
1:N:584:SER:HA	1:P:494:ASN:HA	2.01	0.42
1:O:421:SER:HG	1:m:623:ASP:CG	2.24	0.42
1:O:506:TYR:CZ	1:O:513:SER:HB3	2.55	0.42
1:Q:318:GLN:NE2	1:S:337:SER:HA	2.34	0.42
1:Q:417:VAL:HG21	1:Q:635:PHE:HB3	2.01	0.42
1:Q:433:MET:SD	1:Q:468:MET:HG2	2.59	0.42
1:Q:691:ARG:HD3	1:Q:695:GLU:CG	2.50	0.42
1:R:417:VAL:HG21	1:R:635:PHE:HB3	2.01	0.42
1:R:691:ARG:HD3	1:R:695:GLU:CG	2.50	0.42
1:S:447:THR:HG1	1:U:498:PHE:H	1.66	0.42
1:T:433:MET:SD	1:T:468:MET:HG2	2.59	0.42
1:T:506:TYR:CZ	1:T:513:SER:HB3	2.55	0.42
1:T:618:LYS:HB2	1:T:640:PRO:HG3	2.01	0.42
1:U:506:TYR:CZ	1:U:513:SER:HB3	2.54	0.42
1:W:691:ARG:HD3	1:W:695:GLU:CG	2.50	0.42
1:X:271:TYR:HA	1:X:380:ASN:HD22	1.84	0.42
1:Y:618:LYS:HB2	1:Y:640:PRO:HG3	2.01	0.42
1:a:237:ARG:HG2	1:a:683:GLU:HA	1.99	0.42
1:d:433:MET:SD	1:d:468:MET:HG2	2.59	0.42
1:f:352:VAL:H	1:f:643:GLN:NE2	2.16	0.42
1:g:337:SER:HA	1:k:318:GLN:NE2	2.34	0.42
1:g:377:LEU:HD21	1:h:435:PRO:HB3	2.00	0.42
1:i:506:TYR:CZ	1:i:513:SER:HB3	2.54	0.42
1:i:584:SER:HA	1:j:494:ASN:HA	2.01	0.42
1:l:506:TYR:CZ	1:l:513:SER:HB3	2.55	0.42
1:m:506:TYR:CZ	1:m:513:SER:HB3	2.55	0.42
1:n:433:MET:SD	1:n:468:MET:HG2	2.59	0.42
1:p:318:GLN:NE2	1:q:337:SER:HA	2.34	0.42
1:p:337:SER:HA	1:6:318:GLN:NE2	2.34	0.42
1:p:506:TYR:CZ	1:p:513:SER:HB3	2.54	0.42
1:q:417:VAL:HG21	1:q:635:PHE:HB3	2.01	0.42
1:q:440:TYR:CE1	1:r:285:ARG:NH1	2.87	0.42
1:q:691:ARG:HD3	1:q:695:GLU:CG	2.50	0.42
1:r:431:ARG:HD2	1:s:377:LEU:HD13	2.00	0.42
1:r:440:TYR:CE1	1:s:285:ARG:NH1	2.86	0.42
1:t:440:TYR:CE1	1:u:285:ARG:NH1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:691:ARG:HD3	1:t:695:GLU:CG	2.49	0.42
1:v:271:TYR:HA	1:v:380:ASN:HD22	1.84	0.42
1:w:271:TYR:HA	1:w:380:ASN:HD22	1.84	0.42
1:x:691:ARG:HD3	1:x:695:GLU:CG	2.50	0.42
1:z:271:TYR:HA	1:z:380:ASN:HD22	1.84	0.42
1:2:267:ASN:HA	1:2:270:HIS:CD2	2.54	0.42
1:2:303:TRP:HE3	1:2:731:ARG:HH21	1.62	0.42
1:2:433:MET:SD	1:2:468:MET:HG2	2.60	0.42
1:3:417:VAL:HG21	1:3:635:PHE:HB3	2.01	0.42
1:4:433:MET:SD	1:4:468:MET:HG2	2.59	0.42
1:5:295:TRP:CD2	1:5:611:LEU:HD13	2.55	0.42
1:6:691:ARG:HD3	1:6:695:GLU:CG	2.50	0.42
1:7:506:TYR:CZ	1:7:513:SER:HB3	2.54	0.42
1:A:271:TYR:HA	1:A:380:ASN:HD22	1.84	0.42
1:A:691:ARG:HD3	1:A:695:GLU:CG	2.50	0.42
1:C:506:TYR:CZ	1:C:513:SER:HB3	2.54	0.42
1:D:295:TRP:CD2	1:D:611:LEU:HD13	2.55	0.42
1:D:340:GLN:HG2	1:D:401:MET:HG2	2.00	0.42
1:G:353:LEU:HD21	1:G:643:GLN:HG2	2.00	0.42
1:G:691:ARG:HD3	1:G:695:GLU:CG	2.49	0.42
1:H:295:TRP:CD2	1:H:611:LEU:HD13	2.55	0.42
1:H:351:TYR:CZ	1:H:353:LEU:HB2	2.55	0.42
1:I:318:GLN:NE2	1:J:337:SER:HA	2.34	0.42
1:J:303:TRP:HE3	1:J:731:ARG:HH21	1.62	0.42
1:J:618:LYS:HB2	1:J:640:PRO:HG3	2.01	0.42
1:K:433:MET:SD	1:K:468:MET:HG2	2.59	0.42
1:L:368:VAL:HG11	1:b:652:PRO:HG3	2.00	0.42
1:L:417:VAL:HG21	1:L:635:PHE:HB3	2.01	0.42
1:L:577:VAL:O	1:L:591:GLY:N	2.46	0.42
1:M:417:VAL:HG21	1:M:635:PHE:HB3	2.01	0.42
1:N:267:ASN:HA	1:N:270:HIS:CD2	2.54	0.42
1:O:618:LYS:HB2	1:O:640:PRO:HG3	2.01	0.42
1:Q:267:ASN:HA	1:Q:270:HIS:CD2	2.54	0.42
1:R:440:TYR:CE1	1:S:285:ARG:NH1	2.87	0.42
1:S:431:ARG:HD2	1:U:377:LEU:HD13	2.00	0.42
1:S:506:TYR:CZ	1:S:513:SER:HB3	2.54	0.42
1:V:506:TYR:CZ	1:V:513:SER:HB3	2.54	0.42
1:Y:251:TYR:OH	1:Y:371:VAL:O	2.26	0.42
1:a:431:ARG:HD2	1:8:377:LEU:HD13	2.00	0.42
1:b:364:PHE:HA	1:b:365:PRO:HD3	1.91	0.42
1:c:353:LEU:HD21	1:c:643:GLN:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:318:GLN:NE2	1:h:337:SER:HA	2.35	0.42
1:f:652:PRO:HG3	1:z:368:VAL:HG11	2.00	0.42
1:j:584:SER:HA	1:k:494:ASN:HA	2.01	0.42
1:k:295:TRP:CD2	1:k:611:LEU:HD13	2.55	0.42
1:m:295:TRP:CD2	1:m:611:LEU:HD13	2.55	0.42
1:n:506:TYR:CZ	1:n:513:SER:HB3	2.54	0.42
1:o:271:TYR:HA	1:o:380:ASN:HD22	1.84	0.42
1:o:433:MET:SD	1:o:468:MET:HG2	2.59	0.42
1:r:577:VAL:O	1:r:591:GLY:N	2.46	0.42
1:t:353:LEU:HD21	1:t:643:GLN:HG2	2.00	0.42
1:v:506:TYR:CZ	1:v:513:SER:HB3	2.54	0.42
1:v:691:ARG:HD3	1:v:695:GLU:CG	2.50	0.42
1:x:364:PHE:HA	1:x:365:PRO:HD3	1.91	0.42
1:x:417:VAL:HG21	1:x:635:PHE:HB3	2.01	0.42
1:z:417:VAL:HG21	1:z:635:PHE:HB3	2.01	0.42
1:4:267:ASN:HA	1:4:270:HIS:CD2	2.54	0.42
1:4:353:LEU:HD21	1:4:643:GLN:HG2	2.00	0.42
1:5:224:SER:HG	1:5:316:ASN:H	1.63	0.42
1:5:351:TYR:CZ	1:5:353:LEU:HB2	2.55	0.42
1:5:618:LYS:HB2	1:5:640:PRO:HG3	2.01	0.42
1:6:506:TYR:CZ	1:6:513:SER:HB3	2.54	0.42
1:7:352:VAL:H	1:7:643:GLN:NE2	2.16	0.42
1:A:433:MET:SD	1:A:468:MET:HG2	2.59	0.42
1:A:506:TYR:CZ	1:A:513:SER:HB3	2.54	0.42
1:D:494:ASN:HA	1:P:584:SER:HA	2.01	0.42
1:E:691:ARG:HD3	1:E:695:GLU:CG	2.50	0.42
1:F:271:TYR:HA	1:F:380:ASN:HD22	1.84	0.42
1:F:691:ARG:HD3	1:F:695:GLU:CG	2.50	0.42
1:G:352:VAL:H	1:G:643:GLN:NE2	2.16	0.42
1:I:506:TYR:CZ	1:I:513:SER:HB3	2.54	0.42
1:J:295:TRP:CD2	1:J:611:LEU:HD13	2.55	0.42
1:K:267:ASN:HA	1:K:270:HIS:CD2	2.54	0.42
1:L:318:GLN:NE2	1:b:337:SER:HA	2.35	0.42
1:N:351:TYR:CZ	1:N:353:LEU:HB2	2.55	0.42
1:O:271:TYR:HA	1:O:380:ASN:HD22	1.84	0.42
1:O:401:MET:HE1	1:d:675:GLN:HG3	2.02	0.42
1:Q:340:GLN:HG2	1:Q:401:MET:HG2	2.00	0.42
1:Q:561:GLU:OE2	1:R:702:TYR:OH	2.29	0.42
1:R:433:MET:SD	1:R:468:MET:HG2	2.59	0.42
1:S:433:MET:SD	1:S:468:MET:HG2	2.60	0.42
1:S:577:VAL:O	1:S:591:GLY:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:295:TRP:CD2	1:T:611:LEU:HD13	2.55	0.42
1:T:675:GLN:HG3	1:U:401:MET:HE1	2.02	0.42
1:U:433:MET:SD	1:U:468:MET:HG2	2.59	0.42
1:V:691:ARG:HD3	1:V:695:GLU:CG	2.50	0.42
1:W:267:ASN:HA	1:W:270:HIS:CD2	2.54	0.42
1:X:295:TRP:CD2	1:X:611:LEU:HD13	2.55	0.42
1:X:433:MET:SD	1:X:468:MET:HG2	2.59	0.42
1:Y:352:VAL:H	1:Y:643:GLN:NE2	2.16	0.42
1:Y:506:TYR:CZ	1:Y:513:SER:HB3	2.55	0.42
1:Z:377:LEU:HD13	1:3:431:ARG:HD2	2.00	0.42
1:b:267:ASN:HA	1:b:270:HIS:CD2	2.54	0.42
1:d:267:ASN:HA	1:d:270:HIS:CD2	2.54	0.42
1:d:506:TYR:CZ	1:d:513:SER:HB3	2.54	0.42
1:e:353:LEU:HD21	1:e:643:GLN:HG2	2.00	0.42
1:f:267:ASN:HA	1:f:270:HIS:CD2	2.54	0.42
1:g:506:TYR:CZ	1:g:513:SER:HB3	2.54	0.42
1:i:267:ASN:HA	1:i:270:HIS:CD2	2.54	0.42
1:i:351:TYR:CZ	1:i:353:LEU:HB2	2.55	0.42
1:l:271:TYR:HA	1:l:380:ASN:HD22	1.84	0.42
1:l:401:MET:HE1	1:n:675:GLN:HG3	2.02	0.42
1:l:618:LYS:HB2	1:l:640:PRO:HG3	2.01	0.42
1:m:271:TYR:HA	1:m:380:ASN:HD22	1.84	0.42
1:n:267:ASN:HA	1:n:270:HIS:CD2	2.54	0.42
1:o:295:TRP:CD2	1:o:611:LEU:HD13	2.55	0.42
1:p:675:GLN:HG3	1:q:401:MET:HE1	2.02	0.42
1:p:691:ARG:HD3	1:p:695:GLU:CG	2.50	0.42
1:q:433:MET:SD	1:q:468:MET:HG2	2.59	0.42
1:r:506:TYR:CZ	1:r:513:SER:HB3	2.54	0.42
1:r:652:PRO:HG3	1:x:368:VAL:HG11	2.00	0.42
1:s:433:MET:SD	1:s:468:MET:HG2	2.59	0.42
1:t:352:VAL:H	1:t:643:GLN:NE2	2.16	0.42
1:t:506:TYR:CZ	1:t:513:SER:HB3	2.54	0.42
1:w:691:ARG:HD3	1:w:695:GLU:CG	2.50	0.42
1:y:691:ARG:HD3	1:y:695:GLU:CG	2.50	0.42
1:2:295:TRP:CD2	1:2:611:LEU:HD13	2.55	0.42
1:4:618:LYS:HB2	1:4:640:PRO:HG3	2.01	0.42
1:6:267:ASN:HA	1:6:270:HIS:CD2	2.54	0.42
1:8:579:ASN:OD1	1:8:589:THR:OG1	2.23	0.42
1:A:398:PRO:HA	1:B:227:TRP:O	2.20	0.42
1:B:271:TYR:HA	1:B:380:ASN:HD22	1.84	0.42
1:B:506:TYR:CZ	1:B:513:SER:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:TYR:CZ	1:C:353:LEU:HB2	2.55	0.42
1:C:352:VAL:H	1:C:643:GLN:NE2	2.17	0.42
1:G:351:TYR:CZ	1:G:353:LEU:HB2	2.55	0.42
1:I:351:TYR:CZ	1:I:353:LEU:HB2	2.55	0.42
1:K:618:LYS:HB2	1:K:640:PRO:HG3	2.01	0.42
1:L:351:TYR:CZ	1:L:353:LEU:HB2	2.55	0.42
1:M:401:MET:HE1	1:c:675:GLN:HG3	2.02	0.42
1:O:433:MET:SD	1:O:468:MET:HG2	2.59	0.42
1:Q:368:VAL:HG11	1:S:652:PRO:HG3	2.00	0.42
1:R:401:MET:HE1	1:V:675:GLN:HG3	2.02	0.42
1:S:691:ARG:HD3	1:S:695:GLU:CG	2.50	0.42
1:V:401:MET:HE1	1:W:675:GLN:HG3	2.02	0.42
1:W:506:TYR:CZ	1:W:513:SER:HB3	2.54	0.42
1:X:398:PRO:HA	1:f:227:TRP:O	2.19	0.42
1:Z:691:ARG:HD3	1:Z:695:GLU:CG	2.50	0.42
1:c:351:TYR:CZ	1:c:353:LEU:HB2	2.55	0.42
1:c:618:LYS:HB2	1:c:640:PRO:HG3	2.01	0.42
1:d:295:TRP:CD2	1:d:611:LEU:HD13	2.55	0.42
1:d:351:TYR:CZ	1:d:353:LEU:HB2	2.55	0.42
1:d:691:ARG:HD3	1:d:695:GLU:CG	2.50	0.42
1:e:351:TYR:CZ	1:e:353:LEU:HB2	2.55	0.42
1:e:506:TYR:CZ	1:e:513:SER:HB3	2.54	0.42
1:e:618:LYS:HB2	1:e:640:PRO:HG3	2.01	0.42
1:g:318:GLN:NE2	1:l:337:SER:HA	2.34	0.42
1:g:352:VAL:H	1:g:643:GLN:NE2	2.16	0.42
1:g:398:PRO:HA	1:k:227:TRP:O	2.20	0.42
1:h:271:TYR:HA	1:h:380:ASN:HD22	1.84	0.42
1:h:433:MET:SD	1:h:468:MET:HG2	2.59	0.42
1:i:618:LYS:HB2	1:i:640:PRO:HG3	2.01	0.42
1:j:561:GLU:OE2	1:w:702:TYR:OH	2.28	0.42
1:k:340:GLN:HG2	1:k:401:MET:HG2	2.00	0.42
1:l:267:ASN:HA	1:l:270:HIS:CD2	2.54	0.42
1:m:675:GLN:HG3	1:s:401:MET:HE1	2.02	0.42
1:n:295:TRP:CD2	1:n:611:LEU:HD13	2.55	0.42
1:n:351:TYR:CZ	1:n:353:LEU:HB2	2.55	0.42
1:o:340:GLN:HG2	1:o:401:MET:HG2	2.00	0.42
1:p:401:MET:HE1	1:6:675:GLN:HG3	2.02	0.42
1:q:506:TYR:CZ	1:q:513:SER:HB3	2.54	0.42
1:q:702:TYR:OH	1:x:561:GLU:OE2	2.29	0.42
1:r:691:ARG:HD3	1:r:695:GLU:CG	2.50	0.42
1:s:691:ARG:HD3	1:s:695:GLU:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:285:ARG:NH1	1:v:440:TYR:CE1	2.87	0.42
1:u:351:TYR:CZ	1:u:353:LEU:HB2	2.55	0.42
1:u:506:TYR:CZ	1:u:513:SER:HB3	2.54	0.42
1:v:433:MET:SD	1:v:468:MET:HG2	2.59	0.42
1:x:267:ASN:HA	1:x:270:HIS:CD2	2.54	0.42
1:y:271:TYR:HA	1:y:380:ASN:HD22	1.84	0.42
1:z:351:TYR:CZ	1:z:353:LEU:HB2	2.55	0.42
1:1:506:TYR:CZ	1:1:513:SER:HB3	2.54	0.42
1:2:618:LYS:HB2	1:2:640:PRO:HG3	2.01	0.42
1:3:295:TRP:CD2	1:3:611:LEU:HD13	2.55	0.42
1:4:484:GLN:HB3	1:4:534:MET:HE2	2.01	0.42
1:5:417:VAL:HG21	1:5:635:PHE:HB3	2.01	0.42
1:5:494:ASN:HA	1:7:584:SER:HA	2.01	0.42
1:8:691:ARG:HD3	1:8:695:GLU:CG	2.50	0.42
1:A:353:LEU:HD21	1:A:643:GLN:HG2	2.00	0.42
1:B:337:SER:HA	1:C:318:GLN:NE2	2.34	0.42
1:B:579:ASN:OD1	1:B:589:THR:OG1	2.23	0.42
1:C:401:MET:HE1	1:D:675:GLN:HG3	2.02	0.42
1:C:652:PRO:HG3	1:D:368:VAL:HG11	2.00	0.42
1:G:484:GLN:HB3	1:G:534:MET:HE2	2.01	0.42
1:G:506:TYR:CZ	1:G:513:SER:HB3	2.54	0.42
1:H:318:GLN:NE2	1:I:337:SER:HA	2.34	0.42
1:H:417:VAL:HG21	1:H:635:PHE:HB3	2.01	0.42
1:H:494:ASN:HA	1:Y:584:SER:HA	2.01	0.42
1:I:417:VAL:HG21	1:I:635:PHE:HB3	2.01	0.42
1:K:484:GLN:HB3	1:K:534:MET:HE2	2.01	0.42
1:M:271:TYR:HA	1:M:380:ASN:HD22	1.84	0.42
1:M:295:TRP:CD2	1:M:611:LEU:HD13	2.55	0.42
1:M:377:LEU:HD13	1:b:431:ARG:HD2	2.00	0.42
1:M:433:MET:SD	1:M:468:MET:HG2	2.59	0.42
1:N:514:LEU:HD11	1:N:535:HIS:CD2	2.55	0.42
1:O:227:TRP:O	1:P:398:PRO:HA	2.20	0.42
1:O:267:ASN:HA	1:O:270:HIS:CD2	2.54	0.42
1:P:351:TYR:CZ	1:P:353:LEU:HB2	2.55	0.42
1:R:267:ASN:HA	1:R:270:HIS:CD2	2.54	0.42
1:R:506:TYR:CZ	1:R:513:SER:HB3	2.54	0.42
1:T:271:TYR:HA	1:T:380:ASN:HD22	1.84	0.42
1:U:267:ASN:HA	1:U:270:HIS:CD2	2.54	0.42
1:U:352:VAL:H	1:U:643:GLN:NE2	2.16	0.42
1:U:691:ARG:HD3	1:U:695:GLU:CG	2.50	0.42
1:V:433:MET:SD	1:V:468:MET:HG2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:295:TRP:CD2	1:W:611:LEU:HD13	2.55	0.42
1:X:337:SER:HA	1:f:318:GLN:NE2	2.34	0.42
1:X:340:GLN:HG2	1:X:401:MET:HG2	2.00	0.42
1:a:295:TRP:CD2	1:a:611:LEU:HD13	2.55	0.42
1:c:417:VAL:HG21	1:c:635:PHE:HB3	2.01	0.42
1:c:433:MET:SD	1:c:468:MET:HG2	2.59	0.42
1:e:433:MET:SD	1:e:468:MET:HG2	2.59	0.42
1:e:675:GLN:HG3	1:h:401:MET:HE1	2.02	0.42
1:f:337:SER:HA	1:z:318:GLN:NE2	2.35	0.42
1:g:351:TYR:CZ	1:g:353:LEU:HB2	2.55	0.42
1:g:401:MET:HE1	1:k:675:GLN:HG3	2.02	0.42
1:g:675:GLN:HG3	1:l:401:MET:HE1	2.02	0.42
1:i:295:TRP:CD2	1:i:611:LEU:HD13	2.55	0.42
1:j:351:TYR:CZ	1:j:353:LEU:HB2	2.55	0.42
1:j:398:PRO:HA	1:l:227:TRP:O	2.20	0.42
1:j:691:ARG:HD3	1:j:695:GLU:CG	2.50	0.42
1:k:691:ARG:HD3	1:k:695:GLU:CG	2.50	0.42
1:l:398:PRO:HA	1:n:227:TRP:O	2.20	0.42
1:l:401:MET:H	1:n:226:ASN:ND2	2.12	0.42
1:l:433:MET:SD	1:l:468:MET:HG2	2.59	0.42
1:m:484:GLN:HB3	1:m:534:MET:HE2	2.01	0.42
1:n:691:ARG:HD3	1:n:695:GLU:CG	2.50	0.42
1:r:351:TYR:CZ	1:r:353:LEU:HB2	2.55	0.42
1:r:433:MET:SD	1:r:468:MET:HG2	2.60	0.42
1:s:267:ASN:HA	1:s:270:HIS:CD2	2.54	0.42
1:t:351:TYR:CZ	1:t:353:LEU:HB2	2.55	0.42
1:v:337:SER:HA	1:l:318:GLN:NE2	2.35	0.42
1:v:484:GLN:HB3	1:v:534:MET:HE2	2.01	0.42
1:w:353:LEU:HD21	1:w:643:GLN:HG2	2.00	0.42
1:x:340:GLN:HG2	1:x:401:MET:HG2	2.00	0.42
1:1:271:TYR:HA	1:1:380:ASN:HD22	1.84	0.42
1:3:368:VAL:HG11	1:8:652:PRO:HG3	2.00	0.42
1:5:506:TYR:CZ	1:5:513:SER:HB3	2.54	0.42
1:5:584:SER:HA	1:6:494:ASN:HA	2.01	0.42
1:A:295:TRP:CD2	1:A:611:LEU:HD13	2.55	0.42
1:A:401:MET:HE1	1:B:675:GLN:HG3	2.02	0.42
1:A:440:TYR:CE1	1:G:285:ARG:NH1	2.87	0.42
1:A:484:GLN:HB3	1:A:534:MET:HE2	2.01	0.42
1:B:401:MET:HE1	1:C:675:GLN:HG3	2.02	0.42
1:C:271:TYR:HA	1:C:380:ASN:HD22	1.84	0.42
1:C:398:PRO:HA	1:D:227:TRP:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:433:MET:SD	1:C:468:MET:HG2	2.59	0.42
1:C:494:ASN:HA	1:M:584:SER:HA	2.02	0.42
1:D:691:ARG:HD3	1:D:695:GLU:CG	2.50	0.42
1:E:353:LEU:HD21	1:E:643:GLN:HG2	2.00	0.42
1:E:514:LEU:HD11	1:E:535:HIS:CD2	2.55	0.42
1:F:295:TRP:CD2	1:F:611:LEU:HD13	2.55	0.42
1:F:337:SER:HA	1:R:318:GLN:NE2	2.35	0.42
1:F:351:TYR:CZ	1:F:353:LEU:HB2	2.55	0.42
1:F:514:LEU:HD11	1:F:535:HIS:CD2	2.55	0.42
1:F:622:THR:HA	1:Q:605:GLN:HE22	1.85	0.42
1:H:506:TYR:CZ	1:H:513:SER:HB3	2.54	0.42
1:H:584:SER:HA	1:W:494:ASN:HA	2.01	0.42
1:J:691:ARG:HD3	1:J:695:GLU:CG	2.50	0.42
1:K:401:MET:HE1	1:7:675:GLN:HG3	2.02	0.42
1:K:691:ARG:HD3	1:K:695:GLU:CG	2.50	0.42
1:L:484:GLN:HB3	1:L:534:MET:HE2	2.01	0.42
1:N:295:TRP:CD2	1:N:611:LEU:HD13	2.55	0.42
1:N:417:VAL:HG21	1:N:635:PHE:HB3	2.01	0.42
1:N:618:LYS:HB2	1:N:640:PRO:HG3	2.01	0.42
1:O:398:PRO:HA	1:d:227:TRP:O	2.20	0.42
1:O:401:MET:H	1:d:226:ASN:ND2	2.12	0.42
1:P:295:TRP:CD2	1:P:611:LEU:HD13	2.55	0.42
1:P:338:THR:HG21	1:P:401:MET:HE2	2.02	0.42
1:Q:514:LEU:HD11	1:Q:535:HIS:CD2	2.55	0.42
1:S:351:TYR:CZ	1:S:353:LEU:HB2	2.55	0.42
1:S:353:LEU:HD21	1:S:643:GLN:HG2	2.00	0.42
1:T:337:SER:HA	1:i:318:GLN:NE2	2.35	0.42
1:T:484:GLN:HB3	1:T:534:MET:HE2	2.01	0.42
1:T:691:ARG:HD3	1:T:695:GLU:CG	2.50	0.42
1:U:227:TRP:O	1:e:398:PRO:HA	2.20	0.42
1:U:295:TRP:CD2	1:U:611:LEU:HD13	2.55	0.42
1:V:417:VAL:HG21	1:V:635:PHE:HB3	2.01	0.42
1:W:351:TYR:CZ	1:W:353:LEU:HB2	2.55	0.42
1:X:318:GLN:NE2	1:Y:337:SER:HA	2.34	0.42
1:Z:506:TYR:CZ	1:Z:513:SER:HB3	2.55	0.42
1:a:514:LEU:HD11	1:a:535:HIS:CD2	2.55	0.42
1:c:398:PRO:HA	1:s:227:TRP:O	2.20	0.42
1:c:506:TYR:CZ	1:c:513:SER:HB3	2.54	0.42
1:d:340:GLN:HG2	1:d:401:MET:HG2	2.00	0.42
1:e:417:VAL:HG21	1:e:635:PHE:HB3	2.01	0.42
1:g:433:MET:SD	1:g:468:MET:HG2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:295:TRP:CD2	1:h:611:LEU:HD13	2.55	0.42
1:h:318:GLN:NE2	1:i:337:SER:HA	2.35	0.42
1:i:433:MET:SD	1:i:468:MET:HG2	2.59	0.42
1:i:514:LEU:HD11	1:i:535:HIS:CD2	2.55	0.42
1:j:295:TRP:CD2	1:j:611:LEU:HD13	2.55	0.42
1:k:514:LEU:HD11	1:k:535:HIS:CD2	2.55	0.42
1:n:340:GLN:HG2	1:n:401:MET:HG2	2.00	0.42
1:o:303:TRP:HE3	1:o:731:ARG:HH21	1.63	0.42
1:o:351:TYR:CZ	1:o:353:LEU:HB2	2.55	0.42
1:o:627:HIS:O	1:o:629:SER:N	2.52	0.42
1:o:691:ARG:HD3	1:o:695:GLU:CG	2.49	0.42
1:p:295:TRP:CD2	1:p:611:LEU:HD13	2.55	0.42
1:p:433:MET:SD	1:p:468:MET:HG2	2.59	0.42
1:q:267:ASN:HA	1:q:270:HIS:CD2	2.54	0.42
1:s:295:TRP:CD2	1:s:611:LEU:HD13	2.55	0.42
1:s:352:VAL:H	1:s:643:GLN:NE2	2.16	0.42
1:t:417:VAL:HG21	1:t:635:PHE:HB3	2.01	0.42
1:t:484:GLN:HB3	1:t:534:MET:HE2	2.01	0.42
1:u:398:PRO:HA	1:5:227:TRP:O	2.20	0.42
1:u:417:VAL:HG21	1:u:635:PHE:HB3	2.01	0.42
1:w:514:LEU:HD11	1:w:535:HIS:CD2	2.55	0.42
1:x:605:GLN:HE22	1:y:622:THR:HA	1.85	0.42
1:y:351:TYR:CZ	1:y:353:LEU:HB2	2.55	0.42
1:y:514:LEU:HD11	1:y:535:HIS:CD2	2.55	0.42
1:1:691:ARG:HD3	1:1:695:GLU:CG	2.50	0.42
1:2:227:TRP:O	1:3:398:PRO:HA	2.20	0.42
1:3:514:LEU:HD11	1:3:535:HIS:CD2	2.55	0.42
1:4:271:TYR:HA	1:4:380:ASN:HD22	1.84	0.42
1:6:295:TRP:CD2	1:6:611:LEU:HD13	2.55	0.42
1:6:340:GLN:HG2	1:6:401:MET:HG2	2.00	0.42
1:6:351:TYR:CZ	1:6:353:LEU:HB2	2.55	0.42
1:7:267:ASN:HA	1:7:270:HIS:CD2	2.54	0.42
1:8:417:VAL:HG21	1:8:635:PHE:HB3	2.01	0.42
1:8:506:TYR:CZ	1:8:513:SER:HB3	2.55	0.42
1:A:364:PHE:HA	1:A:365:PRO:HD3	1.91	0.42
1:B:295:TRP:CD2	1:B:611:LEU:HD13	2.55	0.42
1:B:433:MET:SD	1:B:468:MET:HG2	2.59	0.42
1:B:618:LYS:HB2	1:B:640:PRO:HG3	2.01	0.42
1:B:691:ARG:HD3	1:B:695:GLU:CG	2.50	0.42
1:D:514:LEU:HD11	1:D:535:HIS:CD2	2.55	0.42
1:E:295:TRP:CD2	1:E:611:LEU:HD13	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:494:ASN:HA	1:Q:584:SER:HA	2.02	0.42
1:G:417:VAL:HG21	1:G:635:PHE:HB3	2.01	0.42
1:H:227:TRP:O	1:I:398:PRO:HA	2.20	0.42
1:H:401:MET:HE1	1:Z:675:GLN:HG3	2.02	0.42
1:I:433:MET:SD	1:I:468:MET:HG2	2.59	0.42
1:J:227:TRP:O	1:a:398:PRO:HA	2.20	0.42
1:J:340:GLN:HG2	1:J:401:MET:HG2	2.00	0.42
1:J:506:TYR:CZ	1:J:513:SER:HB3	2.54	0.42
1:K:498:PHE:H	1:8:447:THR:HG1	1.67	0.42
1:N:433:MET:SD	1:N:468:MET:HG2	2.59	0.42
1:N:675:GLN:HG3	1:m:401:MET:HE1	2.02	0.42
1:O:514:LEU:HD11	1:O:535:HIS:CD2	2.55	0.42
1:P:506:TYR:CZ	1:P:513:SER:HB3	2.54	0.42
1:P:691:ARG:HD3	1:P:695:GLU:CG	2.50	0.42
1:Q:364:PHE:HA	1:Q:365:PRO:HD3	1.91	0.42
1:R:659:PHE:CD1	1:V:372:PRO:HA	2.55	0.42
1:S:227:TRP:O	1:d:398:PRO:HA	2.20	0.42
1:S:338:THR:HG21	1:S:401:MET:HE2	2.02	0.42
1:V:338:THR:HG21	1:V:401:MET:HE2	2.02	0.42
1:W:340:GLN:HG2	1:W:401:MET:HG2	2.00	0.42
1:W:618:LYS:HB2	1:W:640:PRO:HG3	2.01	0.42
1:X:351:TYR:CZ	1:X:353:LEU:HB2	2.55	0.42
1:X:691:ARG:HD3	1:X:695:GLU:CG	2.50	0.42
1:Y:267:ASN:HA	1:Y:270:HIS:CD2	2.54	0.42
1:Y:433:MET:SD	1:Y:468:MET:HG2	2.59	0.42
1:Y:691:ARG:HD3	1:Y:695:GLU:CG	2.50	0.42
1:Z:295:TRP:CD2	1:Z:611:LEU:HD13	2.55	0.42
1:Z:398:PRO:HA	1:a:227:TRP:O	2.20	0.42
1:Z:579:ASN:OD1	1:Z:589:THR:OG1	2.23	0.42
1:Z:652:PRO:HG3	1:a:368:VAL:HG11	2.00	0.42
1:a:340:GLN:HG2	1:a:401:MET:HG2	2.00	0.42
1:b:295:TRP:CD2	1:b:611:LEU:HD13	2.55	0.42
1:b:318:GLN:NE2	1:o:337:SER:HA	2.34	0.42
1:b:506:TYR:CZ	1:b:513:SER:HB3	2.54	0.42
1:b:675:GLN:HG3	1:o:401:MET:HE1	2.02	0.42
1:c:514:LEU:HD11	1:c:535:HIS:CD2	2.55	0.42
1:e:514:LEU:HD11	1:e:535:HIS:CD2	2.55	0.42
1:f:295:TRP:CD2	1:f:611:LEU:HD13	2.55	0.42
1:g:271:TYR:HA	1:g:380:ASN:HD22	1.84	0.42
1:g:652:PRO:HG3	1:k:368:VAL:HG11	2.00	0.42
1:h:267:ASN:HA	1:h:270:HIS:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:417:VAL:HG21	1:i:635:PHE:HB3	2.01	0.42
1:j:338:THR:HG21	1:j:401:MET:HE2	2.02	0.42
1:j:506:TYR:CZ	1:j:513:SER:HB3	2.54	0.42
1:l:514:LEU:HD11	1:l:535:HIS:CD2	2.55	0.42
1:m:691:ARG:HD3	1:m:695:GLU:CG	2.50	0.42
1:q:318:GLN:NE2	1:y:337:SER:HA	2.35	0.42
1:r:353:LEU:HD21	1:r:643:GLN:HG2	2.00	0.42
1:u:337:SER:HA	1:5:318:GLN:NE2	2.34	0.42
1:u:433:MET:SD	1:u:468:MET:HG2	2.59	0.42
1:v:295:TRP:CD2	1:v:611:LEU:HD13	2.55	0.42
1:v:351:TYR:CZ	1:v:353:LEU:HB2	2.55	0.42
1:v:353:LEU:HD21	1:v:643:GLN:HG2	2.00	0.42
1:v:398:PRO:HA	1:1:227:TRP:O	2.20	0.42
1:w:295:TRP:CD2	1:w:611:LEU:HD13	2.55	0.42
1:x:514:LEU:HD11	1:x:535:HIS:CD2	2.55	0.42
1:x:618:LYS:HB2	1:x:640:PRO:HG3	2.01	0.42
1:y:295:TRP:CD2	1:y:611:LEU:HD13	2.55	0.42
1:y:352:VAL:H	1:y:643:GLN:NE2	2.16	0.42
1:1:295:TRP:CD2	1:1:611:LEU:HD13	2.55	0.42
1:1:433:MET:SD	1:1:468:MET:HG2	2.59	0.42
1:1:618:LYS:HB2	1:1:640:PRO:HG3	2.01	0.42
1:2:506:TYR:CZ	1:2:513:SER:HB3	2.54	0.42
1:2:691:ARG:HD3	1:2:695:GLU:CG	2.50	0.42
1:3:227:TRP:O	1:8:398:PRO:HA	2.20	0.42
1:3:433:MET:SD	1:3:468:MET:HG2	2.59	0.42
1:4:691:ARG:HD3	1:4:695:GLU:CG	2.50	0.42
1:6:224:SER:HG	1:6:316:ASN:H	1.67	0.42
1:6:618:LYS:HB2	1:6:640:PRO:HG3	2.01	0.42
1:7:295:TRP:CD2	1:7:611:LEU:HD13	2.55	0.42
1:A:318:GLN:NE2	1:E:337:SER:HA	2.35	0.42
1:A:351:TYR:CZ	1:A:353:LEU:HB2	2.55	0.42
1:A:622:THR:HA	1:I:605:GLN:HE22	1.85	0.42
1:C:338:THR:HG21	1:C:401:MET:HE2	2.02	0.42
1:D:484:GLN:HB3	1:D:534:MET:HE2	2.01	0.42
1:D:584:SER:HA	1:N:494:ASN:HA	2.01	0.42
1:E:584:SER:HA	1:Q:494:ASN:HA	2.02	0.42
1:E:702:TYR:OH	1:P:561:GLU:OE2	2.28	0.42
1:G:338:THR:HG21	1:G:401:MET:HE2	2.02	0.42
1:K:227:TRP:O	1:L:398:PRO:HA	2.20	0.42
1:K:271:TYR:HA	1:K:380:ASN:HD22	1.84	0.42
1:K:303:TRP:HE3	1:K:731:ARG:HH21	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:337:SER:HA	1:7:318:GLN:NE2	2.35	0.42
1:K:351:TYR:CZ	1:K:353:LEU:HB2	2.55	0.42
1:K:622:THR:HA	1:8:605:GLN:HE22	1.85	0.42
1:L:618:LYS:HB2	1:L:640:PRO:HG3	2.01	0.42
1:M:267:ASN:HA	1:M:270:HIS:CD2	2.54	0.42
1:M:351:TYR:CZ	1:M:353:LEU:HB2	2.55	0.42
1:M:514:LEU:HD11	1:M:535:HIS:CD2	2.55	0.42
1:N:318:GLN:NE2	1:m:337:SER:HA	2.35	0.42
1:O:484:GLN:HB3	1:O:534:MET:HE2	2.01	0.42
1:P:227:TRP:O	1:Q:398:PRO:HA	2.20	0.42
1:P:618:LYS:HB2	1:P:640:PRO:HG3	2.01	0.42
1:Q:353:LEU:HD21	1:Q:643:GLN:HG2	2.00	0.42
1:Q:506:TYR:CZ	1:Q:513:SER:HB3	2.55	0.42
1:Q:618:LYS:HB2	1:Q:640:PRO:HG3	2.01	0.42
1:R:271:TYR:HA	1:R:380:ASN:HD22	1.84	0.42
1:R:514:LEU:HD11	1:R:535:HIS:CD2	2.55	0.42
1:R:584:SER:HA	1:S:494:ASN:HA	2.02	0.42
1:T:401:MET:HE1	1:i:675:GLN:HG3	2.02	0.42
1:V:295:TRP:CD2	1:V:611:LEU:HD13	2.55	0.42
1:V:340:GLN:HG2	1:V:401:MET:HG2	2.00	0.42
1:X:303:TRP:HE3	1:X:731:ARG:HH21	1.62	0.42
1:X:401:MET:HE1	1:f:675:GLN:HG3	2.02	0.42
1:X:627:HIS:O	1:X:629:SER:N	2.52	0.42
1:Y:675:GLN:HG3	1:4:401:MET:HE1	2.02	0.42
1:Z:417:VAL:HG21	1:Z:635:PHE:HB3	2.01	0.42
1:Z:605:GLN:HE22	1:4:622:THR:HA	1.85	0.42
1:a:433:MET:SD	1:a:468:MET:HG2	2.59	0.42
1:b:227:TRP:O	1:o:398:PRO:HA	2.19	0.42
1:b:618:LYS:HB2	1:b:640:PRO:HG3	2.01	0.42
1:f:618:LYS:HB2	1:f:640:PRO:HG3	2.01	0.42
1:h:227:TRP:O	1:i:398:PRO:HA	2.20	0.42
1:h:351:TYR:CZ	1:h:353:LEU:HB2	2.55	0.42
1:h:514:LEU:HD11	1:h:535:HIS:CD2	2.55	0.42
1:j:318:GLN:NE2	1:x:337:SER:HA	2.34	0.42
1:j:433:MET:SD	1:j:468:MET:HG2	2.59	0.42
1:n:398:PRO:HA	1:r:227:TRP:O	2.20	0.42
1:p:338:THR:HG21	1:p:401:MET:HE2	2.02	0.42
1:p:372:PRO:HA	1:q:659:PHE:CD1	2.55	0.42
1:p:417:VAL:HG21	1:p:635:PHE:HB3	2.01	0.42
1:r:338:THR:HG21	1:r:401:MET:HE2	2.02	0.42
1:s:514:LEU:HD11	1:s:535:HIS:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:338:THR:HG21	1:t:401:MET:HE2	2.02	0.42
1:t:398:PRO:HA	1:y:227:TRP:O	2.20	0.42
1:u:584:SER:HA	1:v:494:ASN:HA	2.02	0.42
1:u:605:GLN:HE22	1:v:622:THR:HA	1.85	0.42
1:v:318:GLN:NE2	1:w:337:SER:HA	2.35	0.42
1:v:338:THR:HG21	1:v:401:MET:HE2	2.02	0.42
1:v:401:MET:HE1	1:1:675:GLN:HG3	2.02	0.42
1:w:584:SER:HA	1:x:494:ASN:HA	2.02	0.42
1:w:622:THR:HA	1:y:605:GLN:HE22	1.85	0.42
1:x:584:SER:HA	1:y:494:ASN:HA	2.02	0.42
1:z:295:TRP:CD2	1:z:611:LEU:HD13	2.55	0.42
1:z:398:PRO:HA	1:4:227:TRP:O	2.20	0.42
1:z:484:GLN:HB3	1:z:534:MET:HE2	2.01	0.42
1:z:506:TYR:CZ	1:z:513:SER:HB3	2.54	0.42
1:z:618:LYS:HB2	1:z:640:PRO:HG3	2.01	0.42
1:z:691:ARG:HD3	1:z:695:GLU:CG	2.49	0.42
1:1:351:TYR:CZ	1:1:353:LEU:HB2	2.55	0.42
1:5:401:MET:HE1	1:8:675:GLN:HG3	2.02	0.42
1:7:433:MET:SD	1:7:468:MET:HG2	2.59	0.42
1:7:691:ARG:HD3	1:7:695:GLU:CG	2.50	0.42
1:8:295:TRP:CD2	1:8:611:LEU:HD13	2.55	0.42
1:8:514:LEU:HD11	1:8:535:HIS:CD2	2.55	0.42
1:B:351:TYR:CZ	1:B:353:LEU:HB2	2.55	0.42
1:C:267:ASN:HA	1:C:270:HIS:CD2	2.54	0.42
1:D:618:LYS:HB2	1:D:640:PRO:HG3	2.01	0.42
1:E:267:ASN:HA	1:E:270:HIS:CD2	2.54	0.42
1:E:622:THR:HA	1:F:605:GLN:HE22	1.85	0.42
1:F:318:GLN:NE2	1:G:337:SER:HA	2.34	0.42
1:F:352:VAL:H	1:F:643:GLN:NE2	2.16	0.42
1:F:401:MET:HE1	1:R:675:GLN:HG3	2.02	0.42
1:G:605:GLN:HE22	1:I:622:THR:HA	1.85	0.42
1:I:484:GLN:HB3	1:I:534:MET:HE2	2.01	0.42
1:K:295:TRP:CD2	1:K:611:LEU:HD13	2.55	0.42
1:L:295:TRP:CD2	1:L:611:LEU:HD13	2.55	0.42
1:L:514:LEU:HD11	1:L:535:HIS:CD2	2.55	0.42
1:M:579:ASN:OD1	1:M:589:THR:OG1	2.23	0.42
1:M:691:ARG:HD3	1:M:695:GLU:CG	2.49	0.42
1:O:351:TYR:CZ	1:O:353:LEU:HB2	2.55	0.42
1:P:318:GLN:NE2	1:Q:337:SER:HA	2.34	0.42
1:P:364:PHE:HA	1:P:365:PRO:HD3	1.91	0.42
1:P:433:MET:SD	1:P:468:MET:HG2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:675:GLN:HG3	1:Q:401:MET:HE1	2.02	0.42
1:R:338:THR:HG21	1:R:401:MET:HE2	2.02	0.42
1:R:351:TYR:CZ	1:R:353:LEU:HB2	2.55	0.42
1:S:295:TRP:CD2	1:S:611:LEU:HD13	2.55	0.42
1:S:605:GLN:HE22	1:U:622:THR:HA	1.85	0.42
1:U:484:GLN:HB3	1:U:534:MET:HE2	2.01	0.42
1:U:514:LEU:HD11	1:U:535:HIS:CD2	2.55	0.42
1:V:618:LYS:HB2	1:V:640:PRO:HG3	2.01	0.42
1:W:605:GLN:HE22	1:Y:622:THR:HA	1.85	0.42
1:X:267:ASN:HA	1:X:270:HIS:CD2	2.54	0.42
1:X:618:LYS:HB2	1:X:640:PRO:HG3	2.01	0.42
1:Y:351:TYR:CZ	1:Y:353:LEU:HB2	2.55	0.42
1:Z:401:MET:HE1	1:a:675:GLN:HG3	2.02	0.42
1:Z:514:LEU:HD11	1:Z:535:HIS:CD2	2.55	0.42
1:c:295:TRP:CD2	1:c:611:LEU:HD13	2.55	0.42
1:e:691:ARG:HD3	1:e:695:GLU:CG	2.50	0.42
1:f:506:TYR:CZ	1:f:513:SER:HB3	2.54	0.42
1:g:267:ASN:HA	1:g:270:HIS:CD2	2.54	0.42
1:g:338:THR:HG21	1:g:401:MET:HE2	2.02	0.42
1:h:691:ARG:HD3	1:h:695:GLU:CG	2.49	0.42
1:j:227:TRP:O	1:x:398:PRO:HA	2.20	0.42
1:k:484:GLN:HB3	1:k:534:MET:HE2	2.01	0.42
1:l:351:TYR:CZ	1:l:353:LEU:HB2	2.55	0.42
1:l:484:GLN:HB3	1:l:534:MET:HE2	2.01	0.42
1:o:267:ASN:HA	1:o:270:HIS:CD2	2.54	0.42
1:p:340:GLN:HG2	1:p:401:MET:HG2	2.00	0.42
1:p:618:LYS:HB2	1:p:640:PRO:HG3	2.01	0.42
1:q:338:THR:HG21	1:q:401:MET:HE2	2.02	0.42
1:q:351:TYR:CZ	1:q:353:LEU:HB2	2.55	0.42
1:q:514:LEU:HD11	1:q:535:HIS:CD2	2.55	0.42
1:q:584:SER:HA	1:r:494:ASN:HA	2.02	0.42
1:r:267:ASN:HA	1:r:270:HIS:CD2	2.54	0.42
1:r:295:TRP:CD2	1:r:611:LEU:HD13	2.55	0.42
1:t:295:TRP:CD2	1:t:611:LEU:HD13	2.55	0.42
1:t:318:GLN:NE2	1:6:337:SER:HA	2.34	0.42
1:t:514:LEU:HD11	1:t:535:HIS:CD2	2.55	0.42
1:t:605:GLN:HE22	1:u:622:THR:HA	1.85	0.42
1:t:618:LYS:HB2	1:t:640:PRO:HG3	2.01	0.42
1:u:295:TRP:CD2	1:u:611:LEU:HD13	2.55	0.42
1:u:484:GLN:HB3	1:u:534:MET:HE2	2.01	0.42
1:x:351:TYR:CZ	1:x:353:LEU:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:506:TYR:CZ	1:x:513:SER:HB3	2.55	0.42
1:2:318:GLN:NE2	1:3:337:SER:HA	2.35	0.42
1:2:340:GLN:HG2	1:2:401:MET:HG2	2.00	0.42
1:3:340:GLN:HG2	1:3:401:MET:HG2	2.00	0.42
1:3:675:GLN:HG3	1:8:401:MET:HE1	2.02	0.42
1:4:303:TRP:HE3	1:4:731:ARG:HH21	1.62	0.42
1:4:351:TYR:CZ	1:4:353:LEU:HB2	2.55	0.42
1:8:351:TYR:CZ	1:8:353:LEU:HB2	2.55	0.42
1:A:338:THR:HG21	1:A:401:MET:HE2	2.02	0.41
1:E:338:THR:HG21	1:E:401:MET:HE2	2.02	0.41
1:F:227:TRP:O	1:G:398:PRO:HA	2.20	0.41
1:F:338:THR:HG21	1:F:401:MET:HE2	2.02	0.41
1:G:295:TRP:CD2	1:G:611:LEU:HD13	2.55	0.41
1:G:318:GLN:NE2	1:W:337:SER:HA	2.34	0.41
1:G:514:LEU:HD11	1:G:535:HIS:CD2	2.55	0.41
1:G:618:LYS:HB2	1:G:640:PRO:HG3	2.01	0.41
1:I:295:TRP:CD2	1:I:611:LEU:HD13	2.55	0.41
1:J:318:GLN:NE2	1:a:337:SER:HA	2.35	0.41
1:K:338:THR:HG21	1:K:401:MET:HE2	2.02	0.41
1:L:506:TYR:CZ	1:L:513:SER:HB3	2.55	0.41
1:L:691:ARG:HD3	1:L:695:GLU:CG	2.50	0.41
1:M:227:TRP:O	1:N:398:PRO:HA	2.20	0.41
1:N:691:ARG:HD3	1:N:695:GLU:CG	2.50	0.41
1:O:605:GLN:HE22	1:m:622:THR:HA	1.85	0.41
1:Q:351:TYR:CZ	1:Q:353:LEU:HB2	2.55	0.41
1:R:478:GLY:HA3	1:R:604:TRP:HB3	2.02	0.41
1:T:622:THR:HA	1:l:605:GLN:HE22	1.85	0.41
1:U:618:LYS:HB2	1:U:640:PRO:HG3	2.01	0.41
1:V:351:TYR:CZ	1:V:353:LEU:HB2	2.55	0.41
1:Y:295:TRP:CD2	1:Y:611:LEU:HD13	2.55	0.41
1:Y:318:GLN:NE2	1:4:337:SER:HA	2.35	0.41
1:Z:338:THR:HG21	1:Z:401:MET:HE2	2.02	0.41
1:Z:351:TYR:CZ	1:Z:353:LEU:HB2	2.55	0.41
1:Z:494:ASN:HA	1:3:584:SER:HA	2.02	0.41
1:a:506:TYR:CZ	1:a:513:SER:HB3	2.54	0.41
1:a:584:SER:HA	1:8:494:ASN:HA	2.02	0.41
1:b:351:TYR:CZ	1:b:353:LEU:HB2	2.55	0.41
1:b:514:LEU:HD11	1:b:535:HIS:CD2	2.55	0.41
1:c:605:GLN:HE22	1:o:622:THR:HA	1.85	0.41
1:c:691:ARG:HD3	1:c:695:GLU:CG	2.50	0.41
1:d:618:LYS:HB2	1:d:640:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:295:TRP:CD2	1:e:611:LEU:HD13	2.55	0.41
1:f:514:LEU:HD11	1:f:535:HIS:CD2	2.55	0.41
1:g:295:TRP:CD2	1:g:611:LEU:HD13	2.55	0.41
1:g:549:ASN:ND2	1:h:445:ASN:HD22	2.18	0.41
1:g:691:ARG:HD3	1:g:695:GLU:CG	2.50	0.41
1:h:694:PRO:HD3	1:k:292:PRO:HB2	2.03	0.41
1:i:494:ASN:HA	1:k:584:SER:HA	2.01	0.41
1:j:618:LYS:HB2	1:j:640:PRO:HG3	2.01	0.41
1:j:675:GLN:HG3	1:x:401:MET:HE1	2.02	0.41
1:k:338:THR:HG21	1:k:401:MET:HE2	2.02	0.41
1:m:584:SER:HA	1:n:494:ASN:HA	2.02	0.41
1:n:618:LYS:HB2	1:n:640:PRO:HG3	2.01	0.41
1:o:618:LYS:HB2	1:o:640:PRO:HG3	2.01	0.41
1:p:351:TYR:CZ	1:p:353:LEU:HB2	2.55	0.41
1:q:271:TYR:HA	1:q:380:ASN:HD22	1.84	0.41
1:q:478:GLY:HA3	1:q:604:TRP:HB3	2.02	0.41
1:q:675:GLN:HG3	1:y:401:MET:HE1	2.02	0.41
1:r:605:GLN:HE22	1:s:622:THR:HA	1.85	0.41
1:s:484:GLN:HB3	1:s:534:MET:HE2	2.01	0.41
1:s:618:LYS:HB2	1:s:640:PRO:HG3	2.01	0.41
1:t:337:SER:HA	1:y:318:GLN:NE2	2.35	0.41
1:u:338:THR:HG21	1:u:401:MET:HE2	2.02	0.41
1:v:675:GLN:HG3	1:w:401:MET:HE1	2.02	0.41
1:w:267:ASN:HA	1:w:270:HIS:CD2	2.54	0.41
1:w:338:THR:HG21	1:w:401:MET:HE2	2.02	0.41
1:x:353:LEU:HD21	1:x:643:GLN:HG2	2.00	0.41
1:y:338:THR:HG21	1:y:401:MET:HE2	2.02	0.41
1:3:484:GLN:HB3	1:3:534:MET:HE2	2.01	0.41
1:4:295:TRP:CD2	1:4:611:LEU:HD13	2.55	0.41
1:4:338:THR:HG21	1:4:401:MET:HE2	2.02	0.41
1:8:338:THR:HG21	1:8:401:MET:HE2	2.02	0.41
1:A:494:ASN:HA	1:I:584:SER:HA	2.02	0.41
1:A:605:GLN:HE22	1:G:622:THR:HA	1.85	0.41
1:A:675:GLN:HG3	1:E:401:MET:HE1	2.02	0.41
1:C:691:ARG:HD3	1:C:695:GLU:CG	2.49	0.41
1:D:338:THR:HG21	1:D:401:MET:HE2	2.02	0.41
1:D:433:MET:SD	1:D:468:MET:HG2	2.59	0.41
1:I:338:THR:HG21	1:I:401:MET:HE2	2.02	0.41
1:J:351:TYR:CZ	1:J:353:LEU:HB2	2.55	0.41
1:J:675:GLN:HG3	1:a:401:MET:HE1	2.02	0.41
1:K:675:GLN:HG3	1:L:401:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:579:ASN:OD1	1:L:589:THR:OG1	2.23	0.41
1:M:398:PRO:HA	1:c:227:TRP:O	2.20	0.41
1:O:295:TRP:CD2	1:O:611:LEU:HD13	2.55	0.41
1:O:622:THR:HA	1:n:605:GLN:HE22	1.85	0.41
1:Q:295:TRP:CD2	1:Q:611:LEU:HD13	2.55	0.41
1:R:424:ALA:O	1:R:730:THR:HA	2.21	0.41
1:S:267:ASN:HA	1:S:270:HIS:CD2	2.54	0.41
1:S:318:GLN:NE2	1:d:337:SER:HA	2.35	0.41
1:S:478:GLY:HA3	1:S:604:TRP:HB3	2.02	0.41
1:T:584:SER:HA	1:d:494:ASN:HA	2.02	0.41
1:U:292:PRO:HB2	1:V:694:PRO:HD3	2.03	0.41
1:V:431:ARG:HD3	1:V:431:ARG:HA	1.89	0.41
1:W:514:LEU:HD11	1:W:535:HIS:CD2	2.55	0.41
1:X:506:TYR:CZ	1:X:513:SER:HB3	2.54	0.41
1:X:675:GLN:HG3	1:Y:401:MET:HE1	2.01	0.41
1:Z:478:GLY:HA3	1:Z:604:TRP:HB3	2.03	0.41
1:a:251:TYR:OH	1:a:371:VAL:O	2.26	0.41
1:a:484:GLN:HB3	1:a:534:MET:HE2	2.01	0.41
1:b:271:TYR:HA	1:b:380:ASN:HD22	1.84	0.41
1:d:445:ASN:HD22	1:l:549:ASN:ND2	2.19	0.41
1:f:351:TYR:CZ	1:f:353:LEU:HB2	2.55	0.41
1:g:514:LEU:HD11	1:g:535:HIS:CD2	2.55	0.41
1:h:579:ASN:OD1	1:h:589:THR:OG1	2.23	0.41
1:i:691:ARG:HD3	1:i:695:GLU:CG	2.50	0.41
1:k:433:MET:SD	1:k:468:MET:HG2	2.59	0.41
1:k:579:ASN:OD1	1:k:589:THR:OG1	2.23	0.41
1:k:618:LYS:HB2	1:k:640:PRO:HG3	2.02	0.41
1:o:506:TYR:CZ	1:o:513:SER:HB3	2.54	0.41
1:p:478:GLY:HA3	1:p:604:TRP:HB3	2.02	0.41
1:p:694:PRO:HD3	1:s:292:PRO:HB2	2.03	0.41
1:r:271:TYR:HA	1:r:380:ASN:HD22	1.84	0.41
1:r:417:VAL:HG21	1:r:635:PHE:HB3	2.01	0.41
1:r:478:GLY:HA3	1:r:604:TRP:HB3	2.02	0.41
1:u:675:GLN:HG3	1:2:401:MET:HE1	2.01	0.41
1:y:433:MET:SD	1:y:468:MET:HG2	2.59	0.41
1:z:514:LEU:HD11	1:z:535:HIS:CD2	2.55	0.41
1:2:431:ARG:HD3	1:2:431:ARG:HA	1.89	0.41
1:5:514:LEU:HD11	1:5:535:HIS:CD2	2.55	0.41
1:5:691:ARG:HD3	1:5:695:GLU:CG	2.50	0.41
1:6:514:LEU:HD11	1:6:535:HIS:CD2	2.55	0.41
1:6:605:GLN:HE22	1:7:622:THR:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:351:TYR:CZ	1:7:353:LEU:HB2	2.55	0.41
1:7:478:GLY:HA3	1:7:604:TRP:HB3	2.03	0.41
1:C:295:TRP:CD2	1:C:611:LEU:HD13	2.55	0.41
1:C:514:LEU:HD11	1:C:535:HIS:CD2	2.55	0.41
1:D:401:MET:HE1	1:E:675:GLN:HG3	2.02	0.41
1:F:417:VAL:HG21	1:F:635:PHE:HB3	2.01	0.41
1:H:514:LEU:HD11	1:H:535:HIS:CD2	2.55	0.41
1:H:675:GLN:HG3	1:I:401:MET:HE1	2.02	0.41
1:H:691:ARG:HD3	1:H:695:GLU:CG	2.50	0.41
1:J:338:THR:HG21	1:J:401:MET:HE2	2.02	0.41
1:J:424:ALA:O	1:J:730:THR:HA	2.21	0.41
1:J:445:ASN:HD22	1:L:549:ASN:ND2	2.19	0.41
1:J:514:LEU:HD11	1:J:535:HIS:CD2	2.55	0.41
1:J:710:PHE:HE2	1:J:724:ILE:HD11	1.86	0.41
1:K:318:GLN:NE2	1:L:337:SER:HA	2.34	0.41
1:O:337:SER:HA	1:d:318:GLN:NE2	2.34	0.41
1:P:514:LEU:HD11	1:P:535:HIS:CD2	2.55	0.41
1:Q:227:TRP:O	1:S:398:PRO:HA	2.20	0.41
1:Q:271:TYR:HA	1:Q:380:ASN:HD22	1.84	0.41
1:S:271:TYR:HA	1:S:380:ASN:HD22	1.84	0.41
1:S:417:VAL:HG21	1:S:635:PHE:HB3	2.01	0.41
1:T:424:ALA:O	1:T:730:THR:HA	2.21	0.41
1:T:478:GLY:HA3	1:T:604:TRP:HB3	2.02	0.41
1:V:478:GLY:HA3	1:V:604:TRP:HB3	2.02	0.41
1:V:514:LEU:HD11	1:V:535:HIS:CD2	2.55	0.41
1:W:694:PRO:HD3	1:X:292:PRO:HB2	2.02	0.41
1:X:549:ASN:ND2	1:e:445:ASN:HD22	2.17	0.41
1:Y:417:VAL:HG21	1:Y:635:PHE:HB3	2.01	0.41
1:Y:478:GLY:HA3	1:Y:604:TRP:HB3	2.03	0.41
1:Z:433:MET:SD	1:Z:468:MET:HG2	2.59	0.41
1:a:618:LYS:HB2	1:a:640:PRO:HG3	2.01	0.41
1:b:691:ARG:HD3	1:b:695:GLU:CG	2.50	0.41
1:d:605:GLN:HE22	1:l:622:THR:HA	1.85	0.41
1:f:398:PRO:HA	1:z:227:TRP:O	2.20	0.41
1:f:445:ASN:HD22	1:h:549:ASN:ND2	2.18	0.41
1:i:271:TYR:HA	1:i:380:ASN:HD22	1.84	0.41
1:j:431:ARG:HD3	1:j:431:ARG:HA	1.89	0.41
1:j:514:LEU:HD11	1:j:535:HIS:CD2	2.55	0.41
1:l:295:TRP:CD2	1:l:611:LEU:HD13	2.55	0.41
1:l:337:SER:HA	1:n:318:GLN:NE2	2.34	0.41
1:m:478:GLY:HA3	1:m:604:TRP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:337:SER:HA	1:r:318:GLN:NE2	2.35	0.41
1:o:514:LEU:HD11	1:o:535:HIS:CD2	2.55	0.41
1:p:514:LEU:HD11	1:p:535:HIS:CD2	2.55	0.41
1:q:424:ALA:O	1:q:730:THR:HA	2.21	0.41
1:r:398:PRO:HA	1:x:227:TRP:O	2.20	0.41
1:r:514:LEU:HD11	1:r:535:HIS:CD2	2.55	0.41
1:u:401:MET:HE1	1:5:675:GLN:HG3	2.02	0.41
1:v:364:PHE:HA	1:v:365:PRO:HD3	1.91	0.41
1:w:351:TYR:CZ	1:w:353:LEU:HB2	2.55	0.41
1:x:295:TRP:CD2	1:x:611:LEU:HD13	2.55	0.41
1:x:478:GLY:HA3	1:x:604:TRP:HB3	2.03	0.41
1:y:478:GLY:HA3	1:y:604:TRP:HB3	2.02	0.41
1:z:401:MET:HE1	1:4:675:GLN:HG3	2.02	0.41
1:z:549:ASN:ND2	1:2:445:ASN:HD22	2.19	0.41
1:2:338:THR:HG21	1:2:401:MET:HE2	2.02	0.41
1:2:351:TYR:CZ	1:2:353:LEU:HB2	2.55	0.41
1:2:424:ALA:O	1:2:730:THR:HA	2.21	0.41
1:2:514:LEU:HD11	1:2:535:HIS:CD2	2.55	0.41
1:2:710:PHE:HE2	1:2:724:ILE:HD11	1.86	0.41
1:3:271:TYR:HA	1:3:380:ASN:HD22	1.84	0.41
1:3:506:TYR:CZ	1:3:513:SER:HB3	2.54	0.41
1:3:618:LYS:HB2	1:3:640:PRO:HG3	2.01	0.41
1:4:478:GLY:HA3	1:4:604:TRP:HB3	2.02	0.41
1:4:514:LEU:HD11	1:4:535:HIS:CD2	2.55	0.41
1:8:478:GLY:HA3	1:8:604:TRP:HB3	2.03	0.41
1:A:417:VAL:HG21	1:A:635:PHE:HB3	2.01	0.41
1:F:478:GLY:HA3	1:F:604:TRP:HB3	2.03	0.41
1:G:447:THR:HG1	1:I:498:PHE:H	1.68	0.41
1:I:710:PHE:HE2	1:I:724:ILE:HD11	1.86	0.41
1:K:417:VAL:HG21	1:K:635:PHE:HB3	2.01	0.41
1:K:478:GLY:HA3	1:K:604:TRP:HB3	2.02	0.41
1:K:514:LEU:HD11	1:K:535:HIS:CD2	2.55	0.41
1:O:549:ASN:ND2	1:n:445:ASN:HD22	2.19	0.41
1:O:584:SER:HA	1:m:494:ASN:HA	2.02	0.41
1:Q:253:ASN:O	1:Q:255:LEU:HG	2.21	0.41
1:Q:478:GLY:HA3	1:Q:604:TRP:HB3	2.03	0.41
1:R:295:TRP:CD2	1:R:611:LEU:HD13	2.55	0.41
1:R:605:GLN:HE22	1:S:622:THR:HA	1.85	0.41
1:S:253:ASN:O	1:S:255:LEU:HG	2.21	0.41
1:S:514:LEU:HD11	1:S:535:HIS:CD2	2.55	0.41
1:S:584:SER:HA	1:U:494:ASN:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:494:ASN:HA	1:l:584:SER:HA	2.02	0.41
1:V:622:THR:HA	1:X:605:GLN:HE22	1.85	0.41
1:X:253:ASN:O	1:X:255:LEU:HG	2.21	0.41
1:X:514:LEU:HD11	1:X:535:HIS:CD2	2.55	0.41
1:Y:338:THR:HG21	1:Y:401:MET:HE2	2.02	0.41
1:a:271:TYR:HA	1:a:380:ASN:HD22	1.84	0.41
1:d:271:TYR:HA	1:d:380:ASN:HD22	1.84	0.41
1:f:271:TYR:HA	1:f:380:ASN:HD22	1.84	0.41
1:f:338:THR:HG21	1:f:401:MET:HE2	2.02	0.41
1:f:691:ARG:HD3	1:f:695:GLU:CG	2.50	0.41
1:j:710:PHE:HE2	1:j:724:ILE:HD11	1.86	0.41
1:m:227:TRP:O	1:s:398:PRO:HA	2.20	0.41
1:m:424:ALA:O	1:m:730:THR:HA	2.21	0.41
1:q:605:GLN:HE22	1:r:622:THR:HA	1.85	0.41
1:r:584:SER:HA	1:s:494:ASN:HA	2.02	0.41
1:t:227:TRP:O	1:6:398:PRO:HA	2.20	0.41
1:t:401:MET:HE1	1:y:675:GLN:HG3	2.02	0.41
1:t:622:THR:HA	1:v:605:GLN:HE22	1.85	0.41
1:t:675:GLN:HG3	1:6:401:MET:HE1	2.02	0.41
1:t:710:PHE:HE2	1:t:724:ILE:HD11	1.86	0.41
1:v:478:GLY:HA3	1:v:604:TRP:HB3	2.02	0.41
1:x:271:TYR:HA	1:x:380:ASN:HD22	1.84	0.41
1:x:424:ALA:O	1:x:730:THR:HA	2.21	0.41
1:y:417:VAL:HG21	1:y:635:PHE:HB3	2.01	0.41
1:2:675:GLN:HG3	1:3:401:MET:HE1	2.02	0.41
1:3:351:TYR:CZ	1:3:353:LEU:HB2	2.55	0.41
1:4:417:VAL:HG21	1:4:635:PHE:HB3	2.01	0.41
1:4:506:TYR:CZ	1:4:513:SER:HB3	2.55	0.41
1:5:424:ALA:O	1:5:730:THR:HA	2.21	0.41
1:5:605:GLN:HE22	1:6:622:THR:HA	1.85	0.41
1:6:417:VAL:HG21	1:6:635:PHE:HB3	2.01	0.41
1:8:251:TYR:OH	1:8:371:VAL:O	2.26	0.41
1:8:433:MET:SD	1:8:468:MET:HG2	2.59	0.41
1:A:478:GLY:HA3	1:A:604:TRP:HB3	2.02	0.41
1:B:417:VAL:HG21	1:B:635:PHE:HB3	2.01	0.41
1:B:478:GLY:HA3	1:B:604:TRP:HB3	2.02	0.41
1:B:514:LEU:HD11	1:B:535:HIS:CD2	2.55	0.41
1:D:506:TYR:CZ	1:D:513:SER:HB3	2.54	0.41
1:E:253:ASN:O	1:E:255:LEU:HG	2.21	0.41
1:E:351:TYR:CZ	1:E:353:LEU:HB2	2.55	0.41
1:E:605:GLN:HE22	1:Q:622:THR:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:433:MET:SD	1:F:468:MET:HG2	2.59	0.41
1:F:506:TYR:CZ	1:F:513:SER:HB3	2.54	0.41
1:F:675:GLN:HG3	1:G:401:MET:HE1	2.02	0.41
1:G:445:ASN:HD22	1:I:549:ASN:ND2	2.19	0.41
1:G:627:HIS:O	1:G:629:SER:N	2.52	0.41
1:G:675:GLN:HG3	1:W:401:MET:HE1	2.02	0.41
1:G:710:PHE:HE2	1:G:724:ILE:HD11	1.86	0.41
1:H:424:ALA:O	1:H:730:THR:HA	2.21	0.41
1:H:605:GLN:HE22	1:W:622:THR:HA	1.85	0.41
1:I:675:GLN:HG3	1:J:401:MET:HE1	2.02	0.41
1:J:417:VAL:HG21	1:J:635:PHE:HB3	2.01	0.41
1:K:506:TYR:CZ	1:K:513:SER:HB3	2.55	0.41
1:L:227:TRP:O	1:b:398:PRO:HA	2.20	0.41
1:M:622:THR:HA	1:b:605:GLN:HE22	1.85	0.41
1:M:675:GLN:HG3	1:N:401:MET:HE1	2.02	0.41
1:N:271:TYR:HA	1:N:380:ASN:HD22	1.84	0.41
1:O:424:ALA:O	1:O:730:THR:HA	2.21	0.41
1:P:517:PRO:HA	1:P:535:HIS:O	2.21	0.41
1:P:710:PHE:HE2	1:P:724:ILE:HD11	1.86	0.41
1:Q:424:ALA:O	1:Q:730:THR:HA	2.21	0.41
1:R:494:ASN:HA	1:U:584:SER:HA	2.03	0.41
1:U:271:TYR:HA	1:U:380:ASN:HD22	1.84	0.41
1:U:318:GLN:NE2	1:e:337:SER:HA	2.35	0.41
1:V:494:ASN:HA	1:X:584:SER:HA	2.02	0.41
1:W:417:VAL:HG21	1:W:635:PHE:HB3	2.01	0.41
1:W:584:SER:HA	1:Y:494:ASN:HA	2.01	0.41
1:W:710:PHE:HE2	1:W:724:ILE:HD11	1.86	0.41
1:X:338:THR:HG21	1:X:401:MET:HE2	2.02	0.41
1:Y:514:LEU:HD11	1:Y:535:HIS:CD2	2.55	0.41
1:Z:271:TYR:HA	1:Z:380:ASN:HD22	1.84	0.41
1:a:351:TYR:CZ	1:a:353:LEU:HB2	2.55	0.41
1:b:338:THR:HG21	1:b:401:MET:HE2	2.02	0.41
1:c:253:ASN:O	1:c:255:LEU:HG	2.21	0.41
1:c:337:SER:HA	1:s:318:GLN:NE2	2.35	0.41
1:g:354:GLY:O	1:h:474:ASN:ND2	2.53	0.41
1:g:417:VAL:HG21	1:g:635:PHE:HB3	2.01	0.41
1:g:494:ASN:HA	1:h:584:SER:HA	2.03	0.41
1:g:622:THR:HA	1:h:605:GLN:HE22	1.84	0.41
1:g:623:ASP:CG	1:h:421:SER:HG	2.21	0.41
1:l:710:PHE:HE2	1:l:724:ILE:HD11	1.86	0.41
1:m:514:LEU:HD11	1:m:535:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:338:THR:HG21	1:o:401:MET:HE2	2.02	0.41
1:o:702:TYR:OH	1:6:561:GLU:OE2	2.29	0.41
1:p:431:ARG:HD3	1:p:431:ARG:HA	1.89	0.41
1:p:579:ASN:OD1	1:p:589:THR:OG1	2.23	0.41
1:q:295:TRP:CD2	1:q:611:LEU:HD13	2.55	0.41
1:r:253:ASN:O	1:r:255:LEU:HG	2.21	0.41
1:u:710:PHE:HE2	1:u:724:ILE:HD11	1.86	0.41
1:x:253:ASN:O	1:x:255:LEU:HG	2.21	0.41
1:y:618:LYS:HB2	1:y:640:PRO:HG3	2.01	0.41
1:z:253:ASN:O	1:z:255:LEU:HG	2.21	0.41
1:z:337:SER:HA	1:4:318:GLN:NE2	2.34	0.41
1:z:445:ASN:HD22	1:1:549:ASN:ND2	2.18	0.41
1:z:622:THR:HA	1:2:605:GLN:HE22	1.85	0.41
1:1:417:VAL:HG21	1:1:635:PHE:HB3	2.01	0.41
1:1:514:LEU:HD11	1:1:535:HIS:CD2	2.55	0.41
1:2:271:TYR:HA	1:2:380:ASN:HD22	1.84	0.41
1:2:417:VAL:HG21	1:2:635:PHE:HB3	2.01	0.41
1:3:251:TYR:OH	1:3:371:VAL:O	2.26	0.41
1:5:338:THR:HG21	1:5:401:MET:HE2	2.02	0.41
1:7:338:THR:HG21	1:7:401:MET:HE2	2.02	0.41
1:7:417:VAL:HG21	1:7:635:PHE:HB3	2.01	0.41
1:A:618:LYS:HB2	1:A:640:PRO:HG3	2.01	0.41
1:B:445:ASN:HD22	1:J:549:ASN:ND2	2.19	0.41
1:B:549:ASN:ND2	1:L:445:ASN:HD22	2.18	0.41
1:C:417:VAL:HG21	1:C:635:PHE:HB3	2.01	0.41
1:C:424:ALA:O	1:C:730:THR:HA	2.21	0.41
1:E:517:PRO:HA	1:E:535:HIS:O	2.21	0.41
1:F:398:PRO:HA	1:R:227:TRP:O	2.20	0.41
1:F:618:LYS:HB2	1:F:640:PRO:HG3	2.01	0.41
1:G:584:SER:HA	1:I:494:ASN:HA	2.02	0.41
1:H:338:THR:HG21	1:H:401:MET:HE2	2.02	0.41
1:J:271:TYR:HA	1:J:380:ASN:HD22	1.84	0.41
1:J:605:GLN:HE22	1:L:622:THR:HA	1.85	0.41
1:K:424:ALA:O	1:K:730:THR:HA	2.21	0.41
1:K:687:GLU:HB2	1:K:729:LEU:HD13	2.03	0.41
1:L:253:ASN:O	1:L:255:LEU:HG	2.21	0.41
1:M:303:TRP:HE3	1:M:731:ARG:HH21	1.62	0.41
1:N:694:PRO:HD3	1:O:292:PRO:HB2	2.03	0.41
1:O:710:PHE:HE2	1:O:724:ILE:HD11	1.86	0.41
1:P:687:GLU:HB2	1:P:729:LEU:HD13	2.03	0.41
1:T:227:TRP:O	1:U:398:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:251:TYR:OH	1:T:371:VAL:O	2.26	0.41
1:T:514:LEU:HD11	1:T:535:HIS:CD2	2.55	0.41
1:T:517:PRO:HA	1:T:535:HIS:O	2.21	0.41
1:W:474:ASN:ND2	1:Y:354:GLY:O	2.53	0.41
1:a:431:ARG:HD3	1:a:431:ARG:HA	1.89	0.41
1:c:364:PHE:HA	1:c:365:PRO:HD3	1.91	0.41
1:d:478:GLY:HA3	1:d:604:TRP:HB3	2.02	0.41
1:e:253:ASN:O	1:e:255:LEU:HG	2.21	0.41
1:e:517:PRO:HA	1:e:535:HIS:O	2.21	0.41
1:f:605:GLN:HE22	1:h:622:THR:HA	1.85	0.41
1:f:622:THR:HA	1:g:605:GLN:HE22	1.85	0.41
1:g:424:ALA:O	1:g:730:THR:HA	2.21	0.41
1:h:303:TRP:HE3	1:h:731:ARG:HH21	1.62	0.41
1:i:694:PRO:HD3	1:l:292:PRO:HB2	2.03	0.41
1:j:364:PHE:HA	1:j:365:PRO:HD3	1.91	0.41
1:j:687:GLU:HB2	1:j:729:LEU:HD13	2.03	0.41
1:k:401:MET:HE1	1:w:675:GLN:HG3	2.02	0.41
1:k:506:TYR:CZ	1:k:513:SER:HB3	2.54	0.41
1:l:424:ALA:O	1:l:730:THR:HA	2.21	0.41
1:l:517:PRO:HA	1:l:535:HIS:O	2.21	0.41
1:n:478:GLY:HA3	1:n:604:TRP:HB3	2.02	0.41
1:n:514:LEU:HD11	1:n:535:HIS:CD2	2.55	0.41
1:o:253:ASN:O	1:o:255:LEU:HG	2.21	0.41
1:q:227:TRP:O	1:y:398:PRO:HA	2.20	0.41
1:q:494:ASN:HA	1:s:584:SER:HA	2.03	0.41
1:q:561:GLU:OE2	1:x:702:TYR:OH	2.29	0.41
1:s:271:TYR:HA	1:s:380:ASN:HD22	1.84	0.41
1:s:417:VAL:HG21	1:s:635:PHE:HB3	2.01	0.41
1:t:445:ASN:HD22	1:u:549:ASN:ND2	2.19	0.41
1:v:227:TRP:O	1:w:398:PRO:HA	2.20	0.41
1:v:417:VAL:HG21	1:v:635:PHE:HB3	2.01	0.41
1:w:253:ASN:O	1:w:255:LEU:HG	2.21	0.41
1:w:549:ASN:ND2	1:y:445:ASN:HD22	2.19	0.41
1:w:605:GLN:HE22	1:x:622:THR:HA	1.85	0.41
1:x:338:THR:HG21	1:x:401:MET:HE2	2.02	0.41
1:x:431:ARG:HA	1:x:431:ARG:HD3	1.89	0.41
1:y:506:TYR:CZ	1:y:513:SER:HB3	2.54	0.41
1:z:605:GLN:HE22	1:1:622:THR:HA	1.85	0.41
1:1:478:GLY:HA3	1:1:604:TRP:HB3	2.02	0.41
1:4:424:ALA:O	1:4:730:THR:HA	2.21	0.41
1:4:687:GLU:HB2	1:4:729:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:710:PHE:HE2	1:6:724:ILE:HD11	1.86	0.41
1:8:517:PRO:HA	1:8:535:HIS:O	2.21	0.41
1:A:227:TRP:O	1:E:398:PRO:HA	2.20	0.41
1:A:514:LEU:HD11	1:A:535:HIS:CD2	2.55	0.41
1:B:622:THR:HA	1:L:605:GLN:HE22	1.85	0.41
1:B:687:GLU:HB2	1:B:729:LEU:HD13	2.03	0.41
1:C:687:GLU:HB2	1:C:729:LEU:HD13	2.03	0.41
1:D:292:PRO:HB2	1:M:694:PRO:HD3	2.03	0.41
1:D:398:PRO:HA	1:E:227:TRP:O	2.20	0.41
1:E:549:ASN:ND2	1:F:445:ASN:HD22	2.19	0.41
1:G:227:TRP:O	1:W:398:PRO:HA	2.20	0.41
1:G:424:ALA:O	1:G:730:THR:HA	2.21	0.41
1:L:338:THR:HG21	1:L:401:MET:HE2	2.02	0.41
1:N:478:GLY:HA3	1:N:604:TRP:HB3	2.03	0.41
1:N:517:PRO:HA	1:N:535:HIS:O	2.21	0.41
1:O:417:VAL:HG21	1:O:635:PHE:HB3	2.01	0.41
1:O:478:GLY:HA3	1:O:604:TRP:HB3	2.03	0.41
1:O:517:PRO:HA	1:O:535:HIS:O	2.21	0.41
1:Q:338:THR:HG21	1:Q:401:MET:HE2	2.02	0.41
1:S:710:PHE:HE2	1:S:724:ILE:HD11	1.86	0.41
1:T:445:ASN:HD22	1:d:549:ASN:ND2	2.19	0.41
1:U:417:VAL:HG21	1:U:635:PHE:HB3	2.01	0.41
1:U:424:ALA:O	1:U:730:THR:HA	2.21	0.41
1:U:517:PRO:HA	1:U:535:HIS:O	2.21	0.41
1:X:431:ARG:HD3	1:X:431:ARG:HA	1.89	0.41
1:X:623:ASP:CG	1:e:421:SER:HG	2.24	0.41
1:Y:517:PRO:HA	1:Y:535:HIS:O	2.21	0.41
1:Z:517:PRO:HA	1:Z:535:HIS:O	2.21	0.41
1:a:292:PRO:HB2	1:3:694:PRO:HD3	2.03	0.41
1:a:445:ASN:HD22	1:8:549:ASN:ND2	2.19	0.41
1:a:691:ARG:HD3	1:a:695:GLU:CG	2.50	0.41
1:a:694:PRO:HD3	1:3:292:PRO:HB2	2.03	0.41
1:b:372:PRO:HA	1:o:659:PHE:CD1	2.56	0.41
1:b:478:GLY:HA3	1:b:604:TRP:HB3	2.02	0.41
1:c:517:PRO:HA	1:c:535:HIS:O	2.21	0.41
1:c:687:GLU:HB2	1:c:729:LEU:HD13	2.03	0.41
1:d:514:LEU:HD11	1:d:535:HIS:CD2	2.55	0.41
1:e:687:GLU:HB2	1:e:729:LEU:HD13	2.03	0.41
1:f:417:VAL:HG21	1:f:635:PHE:HB3	2.01	0.41
1:f:478:GLY:HA3	1:f:604:TRP:HB3	2.02	0.41
1:g:618:LYS:HB2	1:g:640:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:687:GLU:HB2	1:g:729:LEU:HD13	2.03	0.41
1:i:517:PRO:HA	1:i:535:HIS:O	2.21	0.41
1:j:517:PRO:HA	1:j:535:HIS:O	2.21	0.41
1:k:710:PHE:HE2	1:k:724:ILE:HD11	1.86	0.41
1:l:691:ARG:HD3	1:l:695:GLU:CG	2.50	0.41
1:m:517:PRO:HA	1:m:535:HIS:O	2.21	0.41
1:n:271:TYR:HA	1:n:380:ASN:HD22	1.84	0.41
1:n:710:PHE:HE2	1:n:724:ILE:HD11	1.86	0.41
1:o:292:PRO:HB2	1:6:694:PRO:HD3	2.03	0.41
1:p:253:ASN:O	1:p:255:LEU:HG	2.21	0.41
1:q:549:ASN:ND2	1:s:445:ASN:HD22	2.18	0.41
1:s:424:ALA:O	1:s:730:THR:HA	2.21	0.41
1:s:517:PRO:HA	1:s:535:HIS:O	2.21	0.41
1:t:447:THR:HG1	1:u:498:PHE:H	1.68	0.41
1:u:227:TRP:O	1:2:398:PRO:HA	2.20	0.41
1:v:618:LYS:HB2	1:v:640:PRO:HG3	2.01	0.41
1:w:517:PRO:HA	1:w:535:HIS:O	2.21	0.41
1:z:338:THR:HG21	1:z:401:MET:HE2	2.02	0.41
1:z:424:ALA:O	1:z:730:THR:HA	2.21	0.41
1:1:517:PRO:HA	1:1:535:HIS:O	2.21	0.41
1:1:687:GLU:HB2	1:1:729:LEU:HD13	2.03	0.41
1:5:710:PHE:HE2	1:5:724:ILE:HD11	1.86	0.41
1:7:514:LEU:HD11	1:7:535:HIS:CD2	2.55	0.41
1:8:271:TYR:HA	1:8:380:ASN:HD22	1.84	0.41
1:A:584:SER:HA	1:G:494:ASN:HA	2.02	0.41
1:B:292:PRO:HB2	1:I:694:PRO:HD3	2.03	0.41
1:B:517:PRO:HA	1:B:535:HIS:O	2.21	0.41
1:C:517:PRO:HA	1:C:535:HIS:O	2.21	0.41
1:C:605:GLN:HE22	1:b:622:THR:HA	1.85	0.41
1:C:618:LYS:HB2	1:C:640:PRO:HG3	2.01	0.41
1:D:710:PHE:HE2	1:D:724:ILE:HD11	1.86	0.41
1:H:710:PHE:HE2	1:H:724:ILE:HD11	1.86	0.41
1:I:514:LEU:HD11	1:I:535:HIS:CD2	2.55	0.41
1:K:584:SER:HA	1:a:494:ASN:HA	2.02	0.41
1:M:618:LYS:HB2	1:M:640:PRO:HG3	2.01	0.41
1:N:227:TRP:O	1:m:398:PRO:HA	2.20	0.41
1:O:338:THR:HG21	1:O:401:MET:HE2	2.02	0.41
1:O:691:ARG:HD3	1:O:695:GLU:CG	2.50	0.41
1:P:424:ALA:O	1:P:730:THR:HA	2.21	0.41
1:P:431:ARG:HD3	1:P:431:ARG:HA	1.89	0.41
1:Q:431:ARG:HA	1:Q:431:ARG:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:694:PRO:HD3	1:R:292:PRO:HB2	2.03	0.41
1:R:549:ASN:ND2	1:U:445:ASN:HD22	2.18	0.41
1:S:687:GLU:HB2	1:S:729:LEU:HD13	2.03	0.41
1:T:351:TYR:CZ	1:T:353:LEU:HB2	2.55	0.41
1:T:372:PRO:HA	1:U:659:PHE:CD1	2.56	0.41
1:T:398:PRO:HA	1:i:227:TRP:O	2.20	0.41
1:T:431:ARG:HA	1:T:431:ARG:HD3	1.89	0.41
1:U:253:ASN:O	1:U:255:LEU:HG	2.21	0.41
1:V:398:PRO:HA	1:W:227:TRP:O	2.20	0.41
1:V:445:ASN:HD22	1:e:549:ASN:ND2	2.19	0.41
1:V:447:THR:HG1	1:e:498:PHE:H	1.68	0.41
1:Z:549:ASN:ND2	1:3:445:ASN:HD22	2.19	0.41
1:b:417:VAL:HG21	1:b:635:PHE:HB3	2.01	0.41
1:b:579:ASN:OD1	1:b:589:THR:OG1	2.23	0.41
1:c:271:TYR:HA	1:c:380:ASN:HD22	1.84	0.41
1:c:549:ASN:ND2	1:p:445:ASN:HD22	2.19	0.41
1:d:338:THR:HG21	1:d:401:MET:HE2	2.02	0.41
1:d:710:PHE:HE2	1:d:724:ILE:HD11	1.86	0.41
1:f:579:ASN:OD1	1:f:589:THR:OG1	2.23	0.41
1:g:372:PRO:HA	1:1:659:PHE:CD1	2.55	0.41
1:g:431:ARG:HA	1:g:431:ARG:HD3	1.89	0.41
1:g:517:PRO:HA	1:g:535:HIS:O	2.21	0.41
1:k:398:PRO:HA	1:w:227:TRP:O	2.20	0.41
1:l:338:THR:HG21	1:l:401:MET:HE2	2.02	0.41
1:l:417:VAL:HG21	1:l:635:PHE:HB3	2.01	0.41
1:l:478:GLY:HA3	1:l:604:TRP:HB3	2.03	0.41
1:m:251:TYR:OH	1:m:371:VAL:O	2.26	0.41
1:m:372:PRO:HA	1:s:659:PHE:CD1	2.56	0.41
1:m:445:ASN:HD22	1:n:549:ASN:ND2	2.19	0.41
1:n:338:THR:HG21	1:n:401:MET:HE2	2.02	0.41
1:o:605:GLN:HE22	1:p:622:THR:HA	1.85	0.41
1:o:675:GLN:HG3	1:7:401:MET:HE1	2.02	0.41
1:o:687:GLU:HB2	1:o:729:LEU:HD13	2.03	0.41
1:p:398:PRO:HA	1:6:227:TRP:O	2.20	0.41
1:q:292:PRO:HB2	1:x:694:PRO:HD3	2.03	0.41
1:r:710:PHE:HE2	1:r:724:ILE:HD11	1.86	0.41
1:s:253:ASN:O	1:s:255:LEU:HG	2.21	0.41
1:t:627:HIS:O	1:t:629:SER:N	2.52	0.41
1:u:474:ASN:ND2	1:v:354:GLY:O	2.53	0.41
1:u:694:PRO:HD3	1:1:292:PRO:HB2	2.03	0.41
1:v:514:LEU:HD11	1:v:535:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:579:ASN:OD1	1:x:589:THR:OG1	2.23	0.41
1:z:579:ASN:OD1	1:z:589:THR:OG1	2.23	0.41
1:1:625:HIS:HD2	1:1:628:PRO:HD3	1.86	0.41
1:3:431:ARG:HD3	1:3:431:ARG:HA	1.89	0.41
1:6:474:ASN:ND2	1:7:354:GLY:O	2.53	0.41
1:6:584:SER:HA	1:7:494:ASN:HA	2.01	0.41
1:8:253:ASN:O	1:8:255:LEU:HG	2.21	0.41
1:A:354:GLY:O	1:I:474:ASN:ND2	2.53	0.41
1:B:354:GLY:O	1:L:474:ASN:ND2	2.53	0.41
1:B:424:ALA:O	1:B:730:THR:HA	2.21	0.41
1:B:625:HIS:HD2	1:B:628:PRO:HD3	1.86	0.41
1:B:659:PHE:CD1	1:C:372:PRO:HA	2.55	0.41
1:B:710:PHE:HE2	1:B:724:ILE:HD11	1.86	0.41
1:C:354:GLY:O	1:M:474:ASN:ND2	2.54	0.41
1:C:431:ARG:HA	1:C:431:ARG:HD3	1.89	0.41
1:D:253:ASN:O	1:D:255:LEU:HG	2.21	0.41
1:D:622:THR:HA	1:P:605:GLN:HE22	1.86	0.41
1:D:694:PRO:HD3	1:M:292:PRO:HB2	2.03	0.41
1:E:340:GLN:O	1:E:646:ILE:HA	2.21	0.41
1:E:354:GLY:O	1:F:474:ASN:ND2	2.53	0.41
1:E:478:GLY:HA3	1:E:604:TRP:HB3	2.02	0.41
1:E:494:ASN:HA	1:F:584:SER:HA	2.02	0.41
1:E:618:LYS:HB2	1:E:640:PRO:HG3	2.02	0.41
1:F:517:PRO:HA	1:F:535:HIS:O	2.21	0.41
1:F:710:PHE:HE2	1:F:724:ILE:HD11	1.86	0.41
1:G:687:GLU:HB2	1:G:729:LEU:HD13	2.03	0.41
1:H:364:PHE:HA	1:H:365:PRO:HD3	1.91	0.41
1:H:478:GLY:HA3	1:H:604:TRP:HB3	2.03	0.41
1:H:659:PHE:CD1	1:Z:372:PRO:HA	2.56	0.41
1:H:687:GLU:HB2	1:H:729:LEU:HD13	2.03	0.41
1:I:227:TRP:O	1:J:398:PRO:HA	2.20	0.41
1:I:253:ASN:O	1:I:255:LEU:HG	2.21	0.41
1:I:517:PRO:HA	1:I:535:HIS:O	2.21	0.41
1:J:253:ASN:O	1:J:255:LEU:HG	2.21	0.41
1:J:474:ASN:ND2	1:L:354:GLY:O	2.54	0.41
1:K:398:PRO:HA	1:7:227:TRP:O	2.20	0.41
1:L:424:ALA:O	1:L:730:THR:HA	2.21	0.41
1:L:517:PRO:HA	1:L:535:HIS:O	2.21	0.41
1:M:494:ASN:HA	1:b:584:SER:HA	2.03	0.41
1:N:372:PRO:HA	1:m:659:PHE:CD1	2.56	0.41
1:N:627:HIS:O	1:N:629:SER:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:372:PRO:HA	1:P:659:PHE:CD1	2.56	0.41
1:O:494:ASN:HA	1:n:584:SER:HA	2.02	0.41
1:P:253:ASN:O	1:P:255:LEU:HG	2.21	0.41
1:P:478:GLY:HA3	1:P:604:TRP:HB3	2.03	0.41
1:Q:340:GLN:O	1:Q:646:ILE:HA	2.21	0.41
1:Q:372:PRO:HA	1:S:659:PHE:CD1	2.56	0.41
1:Q:675:GLN:HG3	1:S:401:MET:HE1	2.02	0.41
1:Q:702:TYR:OH	1:R:561:GLU:OE2	2.29	0.41
1:R:398:PRO:HA	1:V:227:TRP:O	2.20	0.41
1:R:445:ASN:HD22	1:S:549:ASN:ND2	2.19	0.41
1:S:675:GLN:HG3	1:d:401:MET:HE1	2.02	0.41
1:T:474:ASN:ND2	1:d:354:GLY:O	2.53	0.41
1:T:549:ASN:ND2	1:l:445:ASN:HD22	2.19	0.41
1:T:659:PHE:CD1	1:i:372:PRO:HA	2.56	0.41
1:T:687:GLU:HB2	1:T:729:LEU:HD13	2.03	0.41
1:U:694:PRO:HD3	1:V:292:PRO:HB2	2.03	0.41
1:V:253:ASN:O	1:V:255:LEU:HG	2.21	0.41
1:V:579:ASN:OD1	1:V:589:THR:OG1	2.23	0.41
1:V:605:GLN:HE22	1:e:622:THR:HA	1.85	0.41
1:V:710:PHE:HE2	1:V:724:ILE:HD11	1.86	0.41
1:W:421:SER:HG	1:Y:623:ASP:CG	2.22	0.41
1:X:340:GLN:O	1:X:646:ILE:HA	2.21	0.41
1:X:364:PHE:HA	1:X:365:PRO:HD3	1.91	0.41
1:X:687:GLU:HB2	1:X:729:LEU:HD13	2.03	0.41
1:Y:227:TRP:O	1:4:398:PRO:HA	2.20	0.41
1:Z:253:ASN:O	1:Z:255:LEU:HG	2.21	0.41
1:Z:625:HIS:HD2	1:Z:628:PRO:HD3	1.86	0.41
1:Z:710:PHE:HE2	1:Z:724:ILE:HD11	1.86	0.41
1:a:517:PRO:HA	1:a:535:HIS:O	2.21	0.41
1:a:605:GLN:HE22	1:8:622:THR:HA	1.85	0.41
1:c:498:PHE:H	1:p:447:THR:HG1	1.68	0.41
1:d:517:PRO:HA	1:d:535:HIS:O	2.21	0.41
1:d:687:GLU:HB2	1:d:729:LEU:HD13	2.03	0.41
1:e:372:PRO:HA	1:h:659:PHE:CD1	2.56	0.41
1:f:253:ASN:O	1:f:255:LEU:HG	2.21	0.41
1:f:584:SER:HA	1:h:494:ASN:HA	2.03	0.41
1:g:694:PRO:HD3	1:z:292:PRO:HB2	2.02	0.41
1:h:618:LYS:HB2	1:h:640:PRO:HG3	2.01	0.41
1:i:478:GLY:HA3	1:i:604:TRP:HB3	2.03	0.41
1:i:549:ASN:ND2	1:k:445:ASN:HD22	2.19	0.41
1:j:253:ASN:O	1:j:255:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:292:PRO:HB2	1:w:694:PRO:HD3	2.03	0.41
1:j:424:ALA:O	1:j:730:THR:HA	2.21	0.41
1:j:478:GLY:HA3	1:j:604:TRP:HB3	2.03	0.41
1:k:253:ASN:O	1:k:255:LEU:HG	2.21	0.41
1:k:340:GLN:O	1:k:646:ILE:HA	2.21	0.41
1:m:253:ASN:O	1:m:255:LEU:HG	2.21	0.41
1:m:351:TYR:CZ	1:m:353:LEU:HB2	2.55	0.41
1:m:474:ASN:ND2	1:n:354:GLY:O	2.53	0.41
1:m:605:GLN:HE22	1:n:622:THR:HA	1.85	0.41
1:m:687:GLU:HB2	1:m:729:LEU:HD13	2.03	0.41
1:n:401:MET:HE1	1:r:675:GLN:HG3	2.02	0.41
1:n:517:PRO:HA	1:n:535:HIS:O	2.21	0.41
1:n:687:GLU:HB2	1:n:729:LEU:HD13	2.03	0.41
1:o:227:TRP:O	1:7:398:PRO:HA	2.20	0.41
1:o:424:ALA:O	1:o:730:THR:HA	2.21	0.41
1:o:445:ASN:HD22	1:p:549:ASN:ND2	2.19	0.41
1:p:227:TRP:O	1:q:398:PRO:HA	2.20	0.41
1:p:271:TYR:HA	1:p:380:ASN:HD22	1.84	0.41
1:p:292:PRO:HB2	1:s:694:PRO:HD3	2.03	0.41
1:q:445:ASN:HD22	1:r:549:ASN:ND2	2.19	0.41
1:r:401:MET:HE1	1:x:675:GLN:HG3	2.02	0.41
1:r:659:PHE:CD1	1:x:372:PRO:HA	2.56	0.41
1:r:687:GLU:HB2	1:r:729:LEU:HD13	2.03	0.41
1:t:424:ALA:O	1:t:730:THR:HA	2.21	0.41
1:t:687:GLU:HB2	1:t:729:LEU:HD13	2.03	0.41
1:u:253:ASN:O	1:u:255:LEU:HG	2.21	0.41
1:u:618:LYS:HB2	1:u:640:PRO:HG3	2.01	0.41
1:w:494:ASN:HA	1:y:584:SER:HA	2.02	0.41
1:w:579:ASN:OD1	1:w:589:THR:OG1	2.23	0.41
1:x:303:TRP:HE3	1:x:731:ARG:HH21	1.62	0.41
1:y:517:PRO:HA	1:y:535:HIS:O	2.21	0.41
1:z:354:GLY:O	1:2:474:ASN:ND2	2.54	0.41
1:z:474:ASN:ND2	1:1:354:GLY:O	2.53	0.41
1:2:253:ASN:O	1:2:255:LEU:HG	2.21	0.41
1:3:253:ASN:O	1:3:255:LEU:HG	2.21	0.41
1:3:494:ASN:HA	1:4:584:SER:HA	2.02	0.41
1:3:691:ARG:HD3	1:3:695:GLU:CG	2.50	0.41
1:5:340:GLN:O	1:5:646:ILE:HA	2.21	0.41
1:5:354:GLY:O	1:7:474:ASN:ND2	2.53	0.41
1:5:364:PHE:HA	1:5:365:PRO:HD3	1.91	0.41
1:5:474:ASN:ND2	1:6:354:GLY:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:659:PHE:CD1	1:8:372:PRO:HA	2.56	0.41
1:5:687:GLU:HB2	1:5:729:LEU:HD13	2.03	0.41
1:6:421:SER:HG	1:7:623:ASP:CG	2.22	0.41
1:7:517:PRO:HA	1:7:535:HIS:O	2.21	0.41
1:B:584:SER:HA	1:J:494:ASN:HA	2.02	0.41
1:C:549:ASN:ND2	1:M:445:ASN:HD22	2.19	0.41
1:D:340:GLN:O	1:D:646:ILE:HA	2.21	0.41
1:D:445:ASN:HD22	1:N:549:ASN:ND2	2.19	0.41
1:E:694:PRO:HD3	1:P:292:PRO:HB2	2.03	0.41
1:F:340:GLN:O	1:F:646:ILE:HA	2.21	0.41
1:G:431:ARG:HD3	1:G:431:ARG:HA	1.89	0.41
1:G:694:PRO:HD3	1:H:292:PRO:HB2	2.02	0.41
1:H:340:GLN:O	1:H:646:ILE:HA	2.21	0.41
1:H:372:PRO:HA	1:I:659:PHE:CD1	2.56	0.41
1:H:474:ASN:ND2	1:W:354:GLY:O	2.53	0.41
1:I:618:LYS:HB2	1:I:640:PRO:HG3	2.01	0.41
1:J:372:PRO:HA	1:a:659:PHE:CD1	2.56	0.41
1:M:424:ALA:O	1:M:730:THR:HA	2.21	0.41
1:N:605:GLN:HE22	1:P:622:THR:HA	1.86	0.41
1:O:445:ASN:HD22	1:m:549:ASN:ND2	2.19	0.41
1:P:340:GLN:O	1:P:646:ILE:HA	2.21	0.41
1:R:253:ASN:O	1:R:255:LEU:HG	2.21	0.41
1:R:517:PRO:HA	1:R:535:HIS:O	2.21	0.41
1:R:625:HIS:HD2	1:R:628:PRO:HD3	1.86	0.41
1:S:372:PRO:HA	1:d:659:PHE:CD1	2.56	0.41
1:T:253:ASN:O	1:T:255:LEU:HG	2.21	0.41
1:T:605:GLN:HE22	1:d:622:THR:HA	1.85	0.41
1:V:271:TYR:HA	1:V:380:ASN:HD22	1.84	0.41
1:V:584:SER:HA	1:e:494:ASN:HA	2.02	0.41
1:W:478:GLY:HA3	1:W:604:TRP:HB3	2.03	0.41
1:X:424:ALA:O	1:X:730:THR:HA	2.21	0.41
1:X:517:PRO:HA	1:X:535:HIS:O	2.21	0.41
1:X:622:THR:HA	1:e:605:GLN:HE22	1.86	0.41
1:Y:694:PRO:HD3	1:Z:292:PRO:HB2	2.03	0.41
1:Z:424:ALA:O	1:Z:730:THR:HA	2.21	0.41
1:a:253:ASN:O	1:a:255:LEU:HG	2.21	0.41
1:a:338:THR:HG21	1:a:401:MET:HE2	2.02	0.41
1:a:424:ALA:O	1:a:730:THR:HA	2.21	0.41
1:b:253:ASN:O	1:b:255:LEU:HG	2.21	0.41
1:b:625:HIS:HD2	1:b:628:PRO:HD3	1.86	0.41
1:b:694:PRO:HD3	1:c:292:PRO:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:583:ASN:OD1	1:c:586:ALA:N	2.40	0.41
1:c:622:THR:HA	1:p:605:GLN:HE22	1.85	0.41
1:d:292:PRO:HB2	1:n:694:PRO:HD3	2.03	0.41
1:d:625:HIS:HD2	1:d:628:PRO:HD3	1.86	0.41
1:e:271:TYR:HA	1:e:380:ASN:HD22	1.84	0.41
1:f:401:MET:HE1	1:z:675:GLN:HG3	2.02	0.41
1:i:627:HIS:O	1:i:629:SER:N	2.52	0.41
1:j:401:MET:HE1	1:l:675:GLN:HG3	2.02	0.41
1:j:605:GLN:HE22	1:k:622:THR:HA	1.86	0.41
1:j:659:PHE:CD1	1:l:372:PRO:HA	2.56	0.41
1:k:351:TYR:CZ	1:k:353:LEU:HB2	2.55	0.41
1:n:340:GLN:O	1:n:646:ILE:HA	2.21	0.41
1:n:659:PHE:CD1	1:r:372:PRO:HA	2.56	0.41
1:o:517:PRO:HA	1:o:535:HIS:O	2.21	0.41
1:o:584:SER:HA	1:p:494:ASN:HA	2.02	0.41
1:q:253:ASN:O	1:q:255:LEU:HG	2.21	0.41
1:q:372:PRO:HA	1:y:659:PHE:CD1	2.56	0.41
1:q:517:PRO:HA	1:q:535:HIS:O	2.21	0.41
1:r:340:GLN:O	1:r:646:ILE:HA	2.21	0.41
1:t:584:SER:HA	1:u:494:ASN:HA	2.02	0.41
1:u:514:LEU:HD11	1:u:535:HIS:CD2	2.55	0.41
1:u:659:PHE:CD1	1:5:372:PRO:HA	2.56	0.41
1:w:340:GLN:O	1:w:646:ILE:HA	2.21	0.41
1:w:354:GLY:O	1:y:474:ASN:ND2	2.53	0.41
1:w:478:GLY:HA3	1:w:604:TRP:HB3	2.02	0.41
1:w:618:LYS:HB2	1:w:640:PRO:HG3	2.02	0.41
1:w:625:HIS:HD2	1:w:628:PRO:HD3	1.86	0.41
1:x:340:GLN:O	1:x:646:ILE:HA	2.21	0.41
1:y:340:GLN:O	1:y:646:ILE:HA	2.21	0.41
1:z:517:PRO:HA	1:z:535:HIS:O	2.21	0.41
1:1:253:ASN:O	1:1:255:LEU:HG	2.21	0.41
1:1:424:ALA:O	1:1:730:THR:HA	2.21	0.41
1:2:687:GLU:HB2	1:2:729:LEU:HD13	2.03	0.41
1:3:517:PRO:HA	1:3:535:HIS:O	2.21	0.41
1:5:478:GLY:HA3	1:5:604:TRP:HB3	2.03	0.41
1:6:253:ASN:O	1:6:255:LEU:HG	2.21	0.41
1:7:694:PRO:HD3	1:8:292:PRO:HB2	2.03	0.41
1:8:710:PHE:HE2	1:8:724:ILE:HD11	1.86	0.41
1:B:253:ASN:O	1:B:255:LEU:HG	2.21	0.40
1:C:292:PRO:HB2	1:L:694:PRO:HD3	2.03	0.40
1:C:478:GLY:HA3	1:C:604:TRP:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:351:TYR:CZ	1:D:353:LEU:HB2	2.55	0.40
1:D:424:ALA:O	1:D:730:THR:HA	2.21	0.40
1:E:364:PHE:HA	1:E:365:PRO:HD3	1.91	0.40
1:E:424:ALA:O	1:E:730:THR:HA	2.21	0.40
1:E:474:ASN:ND2	1:Q:354:GLY:O	2.54	0.40
1:E:625:HIS:HD2	1:E:628:PRO:HD3	1.86	0.40
1:F:659:PHE:CD1	1:R:372:PRO:HA	2.57	0.40
1:G:253:ASN:O	1:G:255:LEU:HG	2.21	0.40
1:H:517:PRO:HA	1:H:535:HIS:O	2.21	0.40
1:I:424:ALA:O	1:I:730:THR:HA	2.21	0.40
1:J:687:GLU:HB2	1:J:729:LEU:HD13	2.03	0.40
1:M:549:ASN:ND2	1:b:445:ASN:HD22	2.19	0.40
1:N:710:PHE:HE2	1:N:724:ILE:HD11	1.86	0.40
1:O:340:GLN:O	1:O:646:ILE:HA	2.21	0.40
1:S:340:GLN:O	1:S:646:ILE:HA	2.21	0.40
1:V:549:ASN:ND2	1:X:445:ASN:HD22	2.19	0.40
1:W:253:ASN:O	1:W:255:LEU:HG	2.21	0.40
1:Z:622:THR:HA	1:3:605:GLN:HE22	1.85	0.40
1:a:340:GLN:O	1:a:646:ILE:HA	2.21	0.40
1:c:338:THR:HG21	1:c:401:MET:HE2	2.02	0.40
1:c:625:HIS:HD2	1:c:628:PRO:HD3	1.86	0.40
1:d:253:ASN:O	1:d:255:LEU:HG	2.21	0.40
1:d:340:GLN:O	1:d:646:ILE:HA	2.21	0.40
1:d:474:ASN:ND2	1:l:354:GLY:O	2.53	0.40
1:d:584:SER:HA	1:l:494:ASN:HA	2.02	0.40
1:d:694:PRO:HD3	1:n:292:PRO:HB2	2.03	0.40
1:e:292:PRO:HB2	1:f:694:PRO:HD3	2.03	0.40
1:e:338:THR:HG21	1:e:401:MET:HE2	2.02	0.40
1:e:364:PHE:HA	1:e:365:PRO:HD3	1.91	0.40
1:e:583:ASN:OD1	1:e:586:ALA:N	2.40	0.40
1:e:627:HIS:O	1:e:629:SER:N	2.52	0.40
1:f:474:ASN:ND2	1:h:354:GLY:O	2.52	0.40
1:g:478:GLY:HA3	1:g:604:TRP:HB3	2.02	0.40
1:h:424:ALA:O	1:h:730:THR:HA	2.21	0.40
1:i:605:GLN:HE22	1:j:622:THR:HA	1.86	0.40
1:j:340:GLN:O	1:j:646:ILE:HA	2.21	0.40
1:m:431:ARG:HA	1:m:431:ARG:HD3	1.89	0.40
1:n:424:ALA:O	1:n:730:THR:HA	2.21	0.40
1:n:625:HIS:HD2	1:n:628:PRO:HD3	1.86	0.40
1:o:340:GLN:O	1:o:646:ILE:HA	2.21	0.40
1:o:625:HIS:HD2	1:o:628:PRO:HD3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:625:HIS:HD2	1:q:628:PRO:HD3	1.86	0.40
1:r:424:ALA:O	1:r:730:THR:HA	2.21	0.40
1:r:583:ASN:OD1	1:r:586:ALA:N	2.40	0.40
1:s:251:TYR:OH	1:s:371:VAL:O	2.26	0.40
1:s:687:GLU:HB2	1:s:729:LEU:HD13	2.03	0.40
1:t:340:GLN:O	1:t:646:ILE:HA	2.21	0.40
1:t:354:GLY:O	1:v:474:ASN:ND2	2.53	0.40
1:t:494:ASN:HA	1:v:584:SER:HA	2.02	0.40
1:t:625:HIS:HD2	1:t:628:PRO:HD3	1.86	0.40
1:u:517:PRO:HA	1:u:535:HIS:O	2.21	0.40
1:w:474:ASN:ND2	1:x:354:GLY:O	2.54	0.40
1:y:710:PHE:HE2	1:y:724:ILE:HD11	1.86	0.40
1:z:478:GLY:HA3	1:z:604:TRP:HB3	2.02	0.40
1:1:584:SER:HA	1:2:494:ASN:HA	2.02	0.40
1:1:710:PHE:HE2	1:1:724:ILE:HD11	1.86	0.40
1:2:372:PRO:HA	1:3:659:PHE:CD1	2.56	0.40
1:3:338:THR:HG21	1:3:401:MET:HE2	2.02	0.40
1:3:340:GLN:O	1:3:646:ILE:HA	2.21	0.40
1:5:517:PRO:HA	1:5:535:HIS:O	2.21	0.40
1:5:622:THR:HA	1:7:605:GLN:HE22	1.86	0.40
1:5:625:HIS:HD2	1:5:628:PRO:HD3	1.86	0.40
1:8:424:ALA:O	1:8:730:THR:HA	2.21	0.40
1:8:625:HIS:HD2	1:8:628:PRO:HD3	1.86	0.40
1:A:340:GLN:O	1:A:646:ILE:HA	2.21	0.40
1:A:424:ALA:O	1:A:730:THR:HA	2.21	0.40
1:A:517:PRO:HA	1:A:535:HIS:O	2.21	0.40
1:C:340:GLN:O	1:C:646:ILE:HA	2.21	0.40
1:D:517:PRO:HA	1:D:535:HIS:O	2.21	0.40
1:D:659:PHE:CD1	1:E:372:PRO:HA	2.56	0.40
1:F:625:HIS:HD2	1:F:628:PRO:HD3	1.86	0.40
1:G:340:GLN:O	1:G:646:ILE:HA	2.21	0.40
1:G:478:GLY:HA3	1:G:604:TRP:HB3	2.02	0.40
1:H:354:GLY:O	1:Y:474:ASN:ND2	2.53	0.40
1:H:445:ASN:HD22	1:W:549:ASN:ND2	2.19	0.40
1:H:622:THR:HA	1:Y:605:GLN:HE22	1.85	0.40
1:H:625:HIS:HD2	1:H:628:PRO:HD3	1.86	0.40
1:J:431:ARG:HD3	1:J:431:ARG:HA	1.89	0.40
1:K:253:ASN:O	1:K:255:LEU:HG	2.21	0.40
1:K:474:ASN:ND2	1:a:354:GLY:O	2.53	0.40
1:L:478:GLY:HA3	1:L:604:TRP:HB3	2.02	0.40
1:L:675:GLN:HG3	1:b:401:MET:HE1	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:253:ASN:O	1:N:255:LEU:HG	2.21	0.40
1:O:675:GLN:HG3	1:P:401:MET:HE1	2.02	0.40
1:P:271:TYR:HA	1:P:380:ASN:HD22	1.84	0.40
1:R:340:GLN:O	1:R:646:ILE:HA	2.21	0.40
1:R:474:ASN:ND2	1:S:354:GLY:O	2.53	0.40
1:T:338:THR:HG21	1:T:401:MET:HE2	2.02	0.40
1:U:675:GLN:HG3	1:e:401:MET:HE1	2.02	0.40
1:U:687:GLU:HB2	1:U:729:LEU:HD13	2.03	0.40
1:V:354:GLY:O	1:X:474:ASN:ND2	2.52	0.40
1:X:625:HIS:HD2	1:X:628:PRO:HD3	1.86	0.40
1:Y:292:PRO:HB2	1:Z:694:PRO:HD3	2.03	0.40
1:Y:710:PHE:HE2	1:Y:724:ILE:HD11	1.86	0.40
1:Z:431:ARG:HA	1:Z:431:ARG:HD3	1.89	0.40
1:Z:474:ASN:ND2	1:4:354:GLY:O	2.54	0.40
1:a:687:GLU:HB2	1:a:729:LEU:HD13	2.03	0.40
1:d:424:ALA:O	1:d:730:THR:HA	2.21	0.40
1:e:227:TRP:O	1:h:398:PRO:HA	2.21	0.40
1:e:424:ALA:O	1:e:730:THR:HA	2.21	0.40
1:f:431:ARG:HD3	1:f:431:ARG:HA	1.89	0.40
1:f:625:HIS:HD2	1:f:628:PRO:HD3	1.86	0.40
1:g:292:PRO:HB2	1:z:694:PRO:HD3	2.03	0.40
1:g:340:GLN:O	1:g:646:ILE:HA	2.21	0.40
1:g:622:THR:HA	1:h:605:GLN:NE2	2.37	0.40
1:g:710:PHE:HE2	1:g:724:ILE:HD11	1.86	0.40
1:i:292:PRO:HB2	1:l:694:PRO:HD3	2.03	0.40
1:i:424:ALA:O	1:i:730:THR:HA	2.21	0.40
1:i:710:PHE:HE2	1:i:724:ILE:HD11	1.86	0.40
1:k:424:ALA:O	1:k:730:THR:HA	2.21	0.40
1:k:517:PRO:HA	1:k:535:HIS:O	2.21	0.40
1:m:338:THR:HG21	1:m:401:MET:HE2	2.02	0.40
1:n:253:ASN:O	1:n:255:LEU:HG	2.21	0.40
1:p:710:PHE:HE2	1:p:724:ILE:HD11	1.86	0.40
1:q:340:GLN:O	1:q:646:ILE:HA	2.21	0.40
1:s:351:TYR:CZ	1:s:353:LEU:HB2	2.55	0.40
1:u:424:ALA:O	1:u:730:THR:HA	2.21	0.40
1:u:687:GLU:HB2	1:u:729:LEU:HD13	2.03	0.40
1:v:424:ALA:O	1:v:730:THR:HA	2.21	0.40
1:v:517:PRO:HA	1:v:535:HIS:O	2.21	0.40
1:v:579:ASN:OD1	1:v:589:THR:OG1	2.23	0.40
1:w:364:PHE:HA	1:w:365:PRO:HD3	1.91	0.40
1:w:424:ALA:O	1:w:730:THR:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:583:ASN:OD1	1:2:586:ALA:N	2.40	0.40
1:3:424:ALA:O	1:3:730:THR:HA	2.21	0.40
1:3:549:ASN:ND2	1:4:445:ASN:HD22	2.19	0.40
1:4:253:ASN:O	1:4:255:LEU:HG	2.21	0.40
1:5:627:HIS:O	1:5:629:SER:N	2.52	0.40
1:6:478:GLY:HA3	1:6:604:TRP:HB3	2.03	0.40
1:6:625:HIS:HD2	1:6:628:PRO:HD3	1.86	0.40
1:7:292:PRO:HB2	1:8:694:PRO:HD3	2.03	0.40
1:8:431:ARG:HA	1:8:431:ARG:HD3	1.89	0.40
1:A:474:ASN:ND2	1:G:354:GLY:O	2.54	0.40
1:C:694:PRO:HD3	1:L:292:PRO:HB2	2.03	0.40
1:C:710:PHE:HE2	1:C:724:ILE:HD11	1.86	0.40
1:D:251:TYR:OH	1:D:371:VAL:O	2.26	0.40
1:F:687:GLU:HB2	1:F:729:LEU:HD13	2.03	0.40
1:G:517:PRO:HA	1:G:535:HIS:O	2.21	0.40
1:H:687:GLU:OE2	1:H:689:SER:HB3	2.22	0.40
1:I:340:GLN:O	1:I:646:ILE:HA	2.21	0.40
1:K:372:PRO:HA	1:L:659:PHE:CD1	2.56	0.40
1:K:445:ASN:HD22	1:a:549:ASN:ND2	2.19	0.40
1:M:478:GLY:HA3	1:M:604:TRP:HB3	2.02	0.40
1:M:517:PRO:HA	1:M:535:HIS:O	2.21	0.40
1:M:659:PHE:CD1	1:c:372:PRO:HA	2.56	0.40
1:O:354:GLY:O	1:n:474:ASN:ND2	2.53	0.40
1:Q:303:TRP:HE3	1:Q:731:ARG:HH21	1.62	0.40
1:Q:625:HIS:HD2	1:Q:628:PRO:HD3	1.86	0.40
1:S:424:ALA:O	1:S:730:THR:HA	2.21	0.40
1:T:340:GLN:O	1:T:646:ILE:HA	2.21	0.40
1:U:625:HIS:HD2	1:U:628:PRO:HD3	1.86	0.40
1:V:687:GLU:HB2	1:V:729:LEU:HD13	2.03	0.40
1:W:625:HIS:HD2	1:W:628:PRO:HD3	1.86	0.40
1:X:583:ASN:OD1	1:X:586:ALA:N	2.40	0.40
1:Y:625:HIS:HD2	1:Y:628:PRO:HD3	1.86	0.40
1:b:351:TYR:CE2	1:b:353:LEU:HB2	2.57	0.40
1:c:424:ALA:O	1:c:730:THR:HA	2.21	0.40
1:c:494:ASN:HA	1:p:584:SER:HA	2.02	0.40
1:e:625:HIS:HD2	1:e:628:PRO:HD3	1.86	0.40
1:f:424:ALA:O	1:f:730:THR:HA	2.21	0.40
1:g:397:PHE:CE1	1:h:690:LYS:HE2	2.56	0.40
1:h:517:PRO:HA	1:h:535:HIS:O	2.21	0.40
1:h:675:GLN:HG3	1:i:401:MET:HE1	2.03	0.40
1:i:253:ASN:O	1:i:255:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:340:GLN:O	1:l:646:ILE:HA	2.21	0.40
1:m:340:GLN:O	1:m:646:ILE:HA	2.21	0.40
1:p:687:GLU:HB2	1:p:729:LEU:HD13	2.03	0.40
1:q:474:ASN:ND2	1:r:354:GLY:O	2.53	0.40
1:s:625:HIS:HD2	1:s:628:PRO:HD3	1.86	0.40
1:t:253:ASN:O	1:t:255:LEU:HG	2.21	0.40
1:t:478:GLY:HA3	1:t:604:TRP:HB3	2.03	0.40
1:t:549:ASN:ND2	1:v:445:ASN:HD22	2.19	0.40
1:u:561:GLU:OE2	1:1:702:TYR:OH	2.29	0.40
1:u:687:GLU:OE2	1:u:689:SER:HB3	2.22	0.40
1:v:340:GLN:O	1:v:646:ILE:HA	2.21	0.40
1:y:251:TYR:OH	1:y:371:VAL:O	2.26	0.40
1:y:625:HIS:HD2	1:y:628:PRO:HD3	1.86	0.40
1:z:710:PHE:HE2	1:z:724:ILE:HD11	1.86	0.40
1:2:340:GLN:O	1:2:646:ILE:HA	2.21	0.40
1:3:354:GLY:O	1:4:474:ASN:ND2	2.53	0.40
1:3:687:GLU:HB2	1:3:729:LEU:HD13	2.03	0.40
1:5:398:PRO:HA	1:8:227:TRP:O	2.20	0.40
1:5:445:ASN:HD22	1:6:549:ASN:ND2	2.19	0.40
1:5:687:GLU:OE2	1:5:689:SER:HB3	2.22	0.40
1:6:424:ALA:O	1:6:730:THR:HA	2.21	0.40
1:6:445:ASN:HD22	1:7:549:ASN:ND2	2.19	0.40
1:7:424:ALA:O	1:7:730:THR:HA	2.21	0.40
1:7:625:HIS:HD2	1:7:628:PRO:HD3	1.86	0.40
1:A:687:GLU:OE2	1:A:689:SER:HB3	2.22	0.40
1:B:338:THR:HG21	1:B:401:MET:HE2	2.02	0.40
1:C:253:ASN:O	1:C:255:LEU:HG	2.21	0.40
1:C:622:THR:HA	1:M:605:GLN:HE22	1.85	0.40
1:E:579:ASN:OD1	1:E:589:THR:OG1	2.23	0.40
1:G:625:HIS:HD2	1:G:628:PRO:HD3	1.86	0.40
1:H:398:PRO:HA	1:Z:227:TRP:O	2.20	0.40
1:H:627:HIS:O	1:H:629:SER:N	2.52	0.40
1:I:687:GLU:OE2	1:I:689:SER:HB3	2.22	0.40
1:I:687:GLU:HB2	1:I:729:LEU:HD13	2.03	0.40
1:J:340:GLN:O	1:J:646:ILE:HA	2.21	0.40
1:J:517:PRO:HA	1:J:535:HIS:O	2.21	0.40
1:K:354:GLY:O	1:8:474:ASN:ND2	2.54	0.40
1:K:659:PHE:CD1	1:7:372:PRO:HA	2.56	0.40
1:M:710:PHE:HE2	1:M:724:ILE:HD11	1.86	0.40
1:N:292:PRO:HB2	1:O:694:PRO:HD3	2.03	0.40
1:N:474:ASN:ND2	1:P:354:GLY:O	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:687:GLU:HB2	1:N:729:LEU:HD13	2.03	0.40
1:Q:292:PRO:HB2	1:R:694:PRO:HD3	2.04	0.40
1:Q:517:PRO:HA	1:Q:535:HIS:O	2.21	0.40
1:T:579:ASN:OD1	1:T:589:THR:OG1	2.23	0.40
1:U:351:TYR:CZ	1:U:353:LEU:HB2	2.55	0.40
1:V:659:PHE:CD1	1:W:372:PRO:HA	2.57	0.40
1:W:424:ALA:O	1:W:730:THR:HA	2.21	0.40
1:Y:271:TYR:HA	1:Y:380:ASN:HD22	1.84	0.40
1:Y:372:PRO:HA	1:4:659:PHE:CD1	2.56	0.40
1:Y:424:ALA:O	1:Y:730:THR:HA	2.21	0.40
1:b:687:GLU:OE2	1:b:689:SER:HB3	2.22	0.40
1:c:401:MET:HE1	1:s:675:GLN:HG3	2.02	0.40
1:c:627:HIS:O	1:c:629:SER:N	2.52	0.40
1:e:224:SER:HG	1:e:316:ASN:H	1.65	0.40
1:f:351:TYR:CE2	1:f:353:LEU:HB2	2.57	0.40
1:f:494:ASN:HA	1:g:584:SER:HA	2.02	0.40
1:f:687:GLU:OE2	1:f:689:SER:HB3	2.22	0.40
1:h:625:HIS:HD2	1:h:628:PRO:HD3	1.86	0.40
1:h:710:PHE:HE2	1:h:724:ILE:HD11	1.86	0.40
1:i:354:GLY:O	1:k:474:ASN:ND2	2.53	0.40
1:j:271:TYR:HA	1:j:380:ASN:HD22	1.84	0.40
1:k:251:TYR:OH	1:k:371:VAL:O	2.26	0.40
1:k:625:HIS:HD2	1:k:628:PRO:HD3	1.86	0.40
1:k:659:PHE:CD1	1:w:372:PRO:HA	2.56	0.40
1:m:579:ASN:OD1	1:m:589:THR:OG1	2.23	0.40
1:o:364:PHE:HA	1:o:365:PRO:HD3	1.91	0.40
1:p:659:PHE:CD1	1:6:372:PRO:HA	2.57	0.40
1:q:694:PRO:HD3	1:x:292:PRO:HB2	2.04	0.40
1:r:625:HIS:HD2	1:r:628:PRO:HD3	1.86	0.40
1:t:372:PRO:HA	1:6:659:PHE:CD1	2.56	0.40
1:t:517:PRO:HA	1:t:535:HIS:O	2.21	0.40
1:u:340:GLN:O	1:u:646:ILE:HA	2.21	0.40
1:v:292:PRO:HB2	1:y:694:PRO:HD3	2.03	0.40
1:v:687:GLU:OE2	1:v:689:SER:HB3	2.22	0.40
1:x:517:PRO:HA	1:x:535:HIS:O	2.21	0.40
1:y:687:GLU:HB2	1:y:729:LEU:HD13	2.03	0.40
1:1:338:THR:HG21	1:1:401:MET:HE2	2.02	0.40
1:4:625:HIS:HD2	1:4:628:PRO:HD3	1.86	0.40
1:6:338:THR:HG21	1:6:401:MET:HE2	2.02	0.40
1:B:494:ASN:HA	1:L:584:SER:HA	2.03	0.40
1:D:625:HIS:HD2	1:D:628:PRO:HD3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:431:ARG:HD3	1:F:431:ARG:HA	1.89	0.40
1:F:627:HIS:O	1:F:629:SER:N	2.52	0.40
1:G:372:PRO:HA	1:W:659:PHE:CD1	2.56	0.40
1:G:474:ASN:ND2	1:I:354:GLY:O	2.54	0.40
1:H:347:TYR:OH	1:H:640:PRO:O	2.33	0.40
1:I:478:GLY:HA3	1:I:604:TRP:HB3	2.02	0.40
1:K:625:HIS:HD2	1:K:628:PRO:HD3	1.86	0.40
1:L:710:PHE:HE2	1:L:724:ILE:HD11	1.86	0.40
1:N:424:ALA:O	1:N:730:THR:HA	2.21	0.40
1:S:625:HIS:HD2	1:S:628:PRO:HD3	1.86	0.40
1:T:351:TYR:CE2	1:T:353:LEU:HB2	2.57	0.40
1:T:710:PHE:HE2	1:T:724:ILE:HD11	1.86	0.40
1:W:292:PRO:HB2	1:X:694:PRO:HD3	2.03	0.40
1:W:340:GLN:O	1:W:646:ILE:HA	2.21	0.40
1:W:445:ASN:HD22	1:Y:549:ASN:ND2	2.19	0.40
1:W:517:PRO:HA	1:W:535:HIS:O	2.21	0.40
1:W:561:GLU:OE2	1:X:702:TYR:OH	2.30	0.40
1:W:627:HIS:O	1:W:629:SER:N	2.52	0.40
1:X:687:GLU:OE2	1:X:689:SER:HB3	2.22	0.40
1:Y:253:ASN:O	1:Y:255:LEU:HG	2.21	0.40
1:Z:584:SER:HA	1:4:494:ASN:HA	2.02	0.40
1:b:340:GLN:O	1:b:646:ILE:HA	2.21	0.40
1:b:710:PHE:HE2	1:b:724:ILE:HD11	1.86	0.40
1:c:224:SER:HG	1:c:316:ASN:H	1.65	0.40
1:d:303:TRP:HE3	1:d:731:ARG:HH21	1.62	0.40
1:e:340:GLN:O	1:e:646:ILE:HA	2.21	0.40
1:e:478:GLY:HA3	1:e:604:TRP:HB3	2.02	0.40
1:f:340:GLN:O	1:f:646:ILE:HA	2.21	0.40
1:f:549:ASN:ND2	1:g:445:ASN:HD22	2.19	0.40
1:f:710:PHE:HE2	1:f:724:ILE:HD11	1.86	0.40
1:g:227:TRP:O	1:1:398:PRO:HA	2.20	0.40
1:g:253:ASN:O	1:g:255:LEU:HG	2.21	0.40
1:h:253:ASN:O	1:h:255:LEU:HG	2.21	0.40
1:h:292:PRO:HB2	1:k:694:PRO:HD3	2.03	0.40
1:i:622:THR:HA	1:k:605:GLN:HE22	1.85	0.40
1:i:687:GLU:HB2	1:i:729:LEU:HD13	2.03	0.40
1:m:351:TYR:CE2	1:m:353:LEU:HB2	2.57	0.40
1:n:351:TYR:CE2	1:n:353:LEU:HB2	2.57	0.40
1:o:687:GLU:OE2	1:o:689:SER:HB3	2.22	0.40
1:q:354:GLY:O	1:s:474:ASN:ND2	2.53	0.40
1:q:622:THR:HA	1:s:605:GLN:HE22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:687:GLU:OE2	1:r:689:SER:HB3	2.22	0.40
1:t:431:ARG:HD3	1:t:431:ARG:HA	1.89	0.40
1:x:625:HIS:HD2	1:x:628:PRO:HD3	1.86	0.40
1:y:627:HIS:O	1:y:629:SER:N	2.52	0.40
1:z:494:ASN:HA	1:2:584:SER:HA	2.02	0.40
1:z:659:PHE:CD1	1:4:372:PRO:HA	2.56	0.40
1:2:517:PRO:HA	1:2:535:HIS:O	2.21	0.40
1:2:625:HIS:HD2	1:2:628:PRO:HD3	1.86	0.40
1:2:694:PRO:HD3	1:4:292:PRO:HB2	2.03	0.40
1:3:372:PRO:HA	1:8:659:PHE:CD1	2.56	0.40
1:5:347:TYR:OH	1:5:640:PRO:O	2.33	0.40
1:6:340:GLN:O	1:6:646:ILE:HA	2.21	0.40
1:6:517:PRO:HA	1:6:535:HIS:O	2.21	0.40
1:7:710:PHE:HE2	1:7:724:ILE:HD11	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	2	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	3	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	4	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	5	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	6	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	7	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	8	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	A	516/517 (100%)	505 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	C	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	D	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	E	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	F	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	G	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	H	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	I	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	J	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	K	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	L	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	M	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	N	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	O	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	P	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	Q	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	R	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	S	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	T	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	U	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	V	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	W	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	X	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	Y	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	Z	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	a	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	b	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	c	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	d	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	e	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	f	516/517 (100%)	505 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	g	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	h	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	i	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	j	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	k	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	l	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	m	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	n	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	o	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	p	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	q	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	r	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	s	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	t	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	u	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	v	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	w	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	x	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	y	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
1	z	516/517 (100%)	505 (98%)	11 (2%)	0	100	100
All	All	30960/31020 (100%)	30300 (98%)	660 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

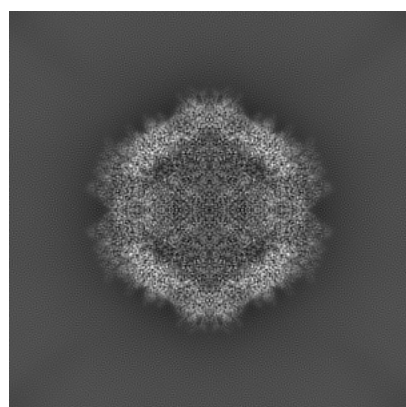
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23205. These allow visual inspection of the internal detail of the map and identification of artifacts.

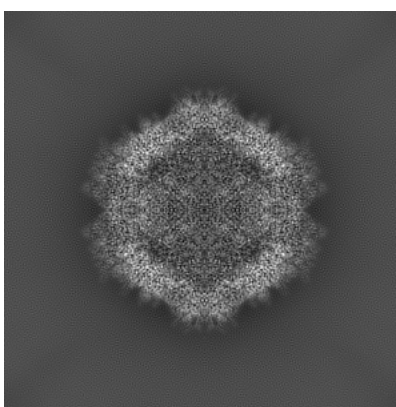
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

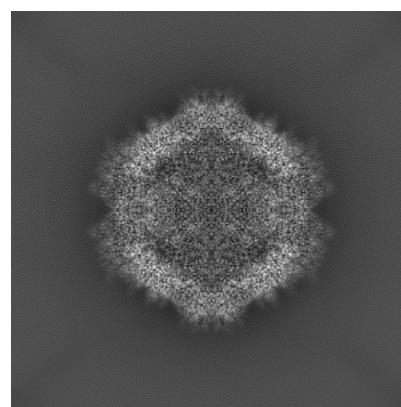
6.1.1 Primary map



X



Y

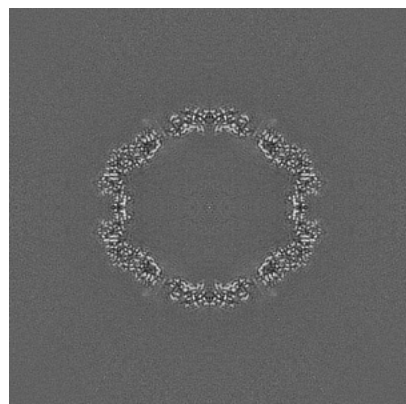


Z

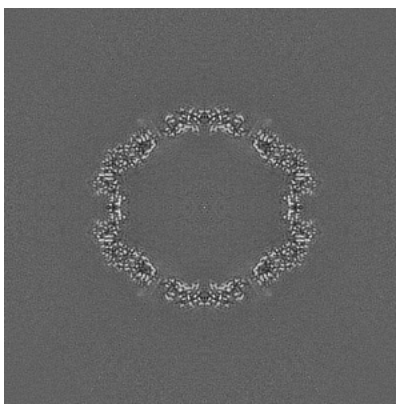
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

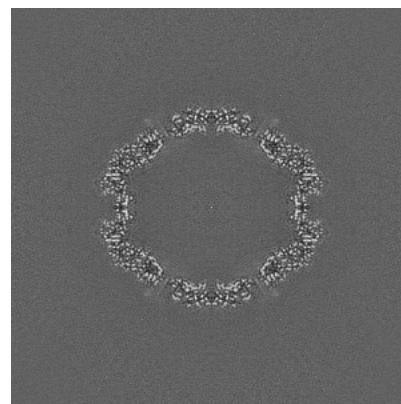
6.2.1 Primary map



X Index: 210



Y Index: 210

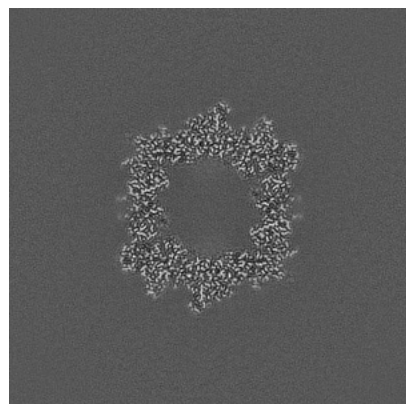


Z Index: 210

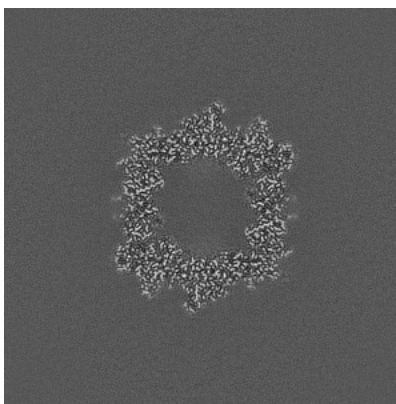
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

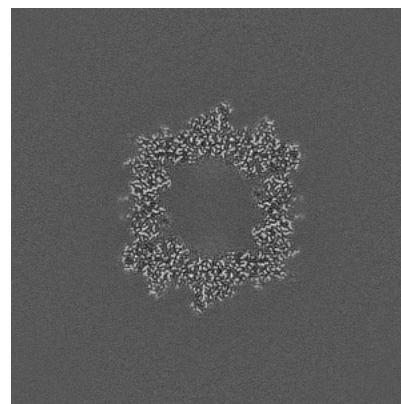
6.3.1 Primary map



X Index: 271



Y Index: 271

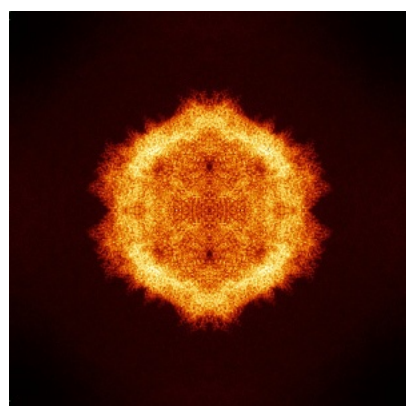


Z Index: 271

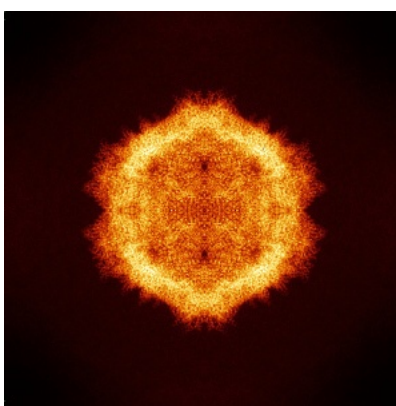
The images above show the largest variance slices of the map in three orthogonal directions.

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

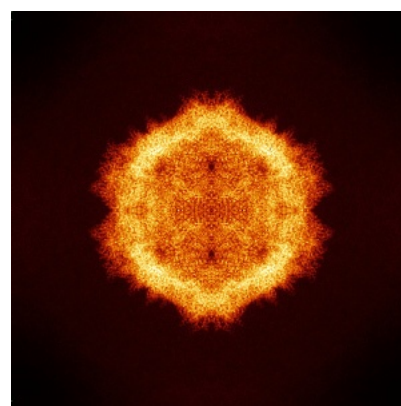
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

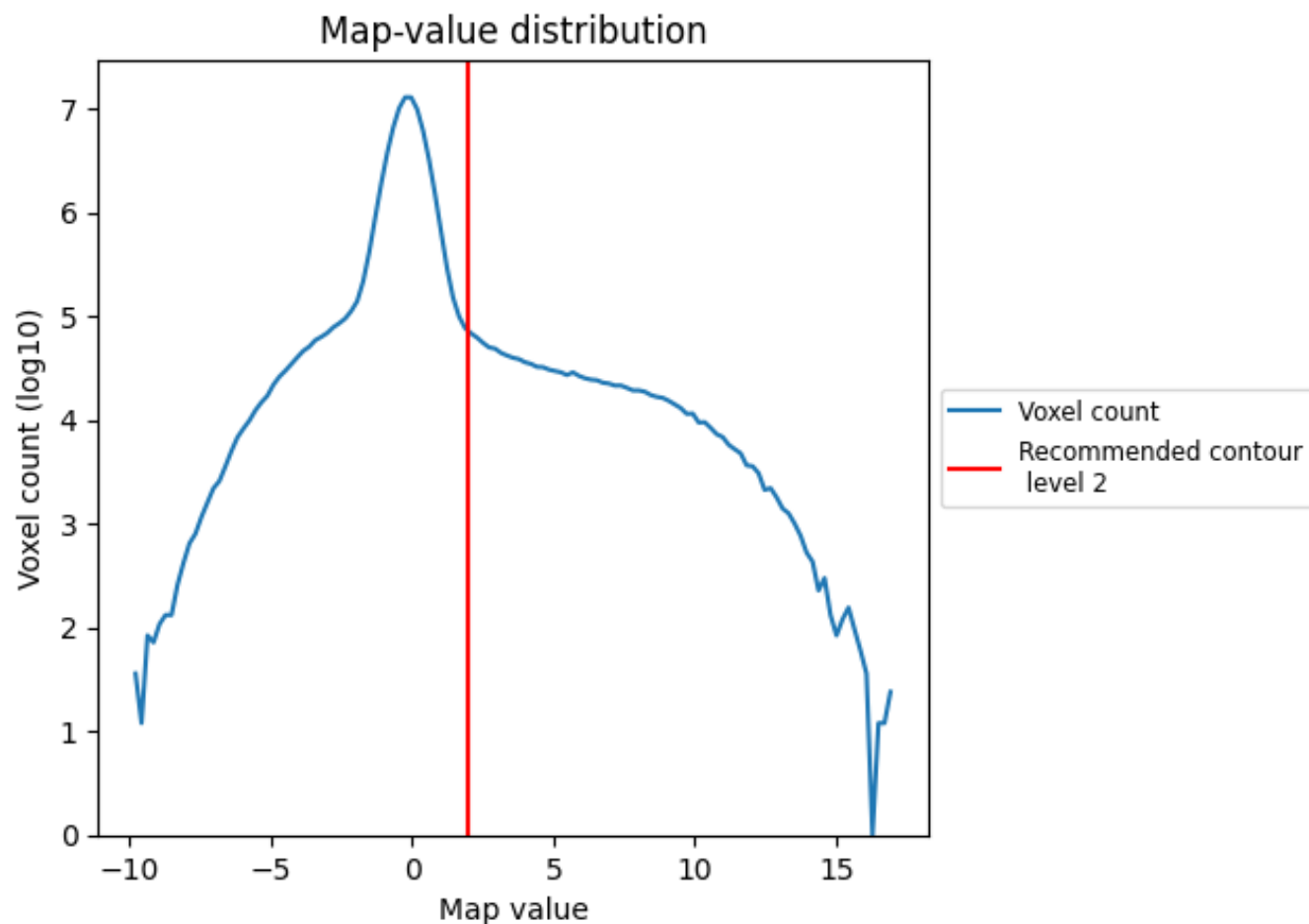
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

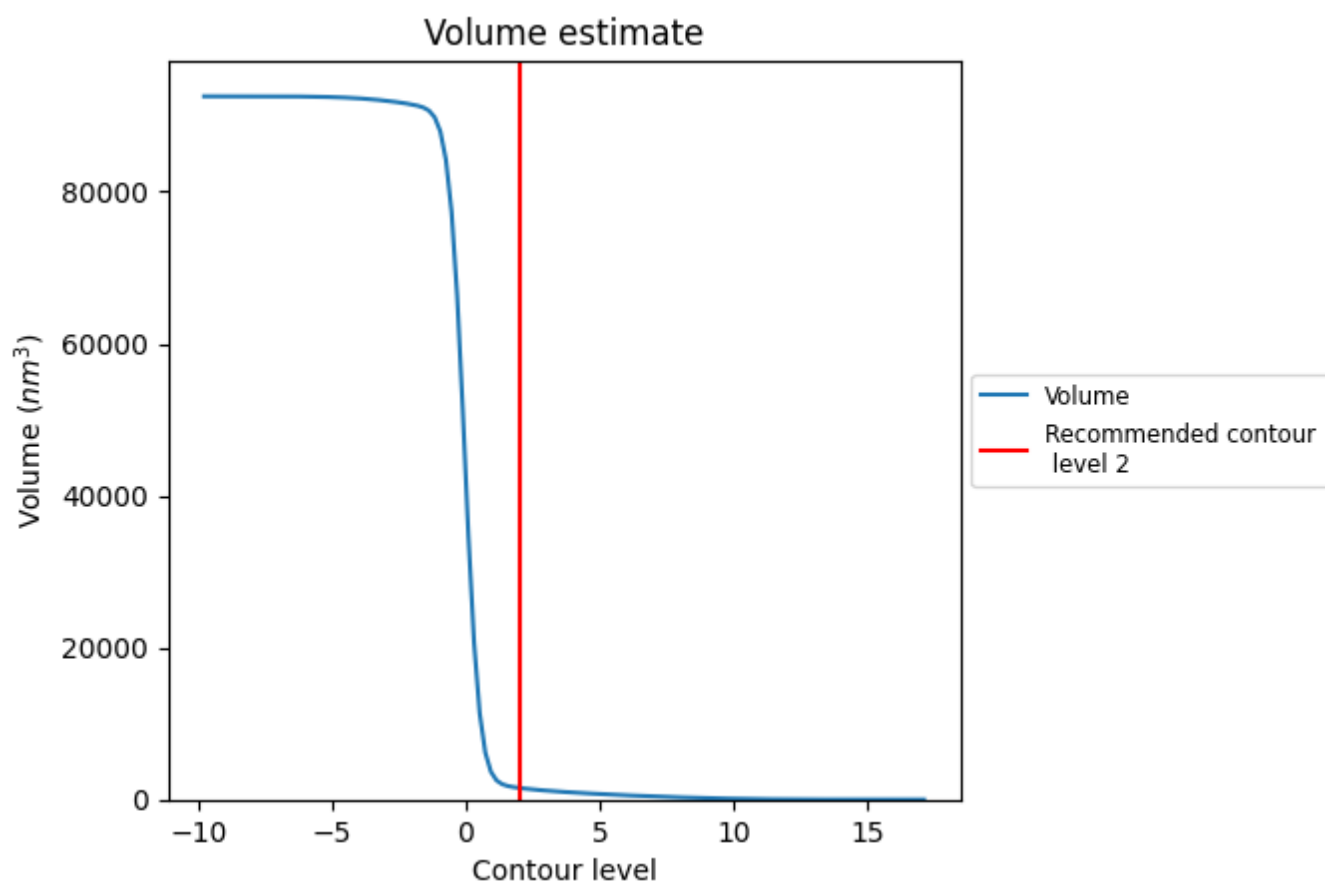
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

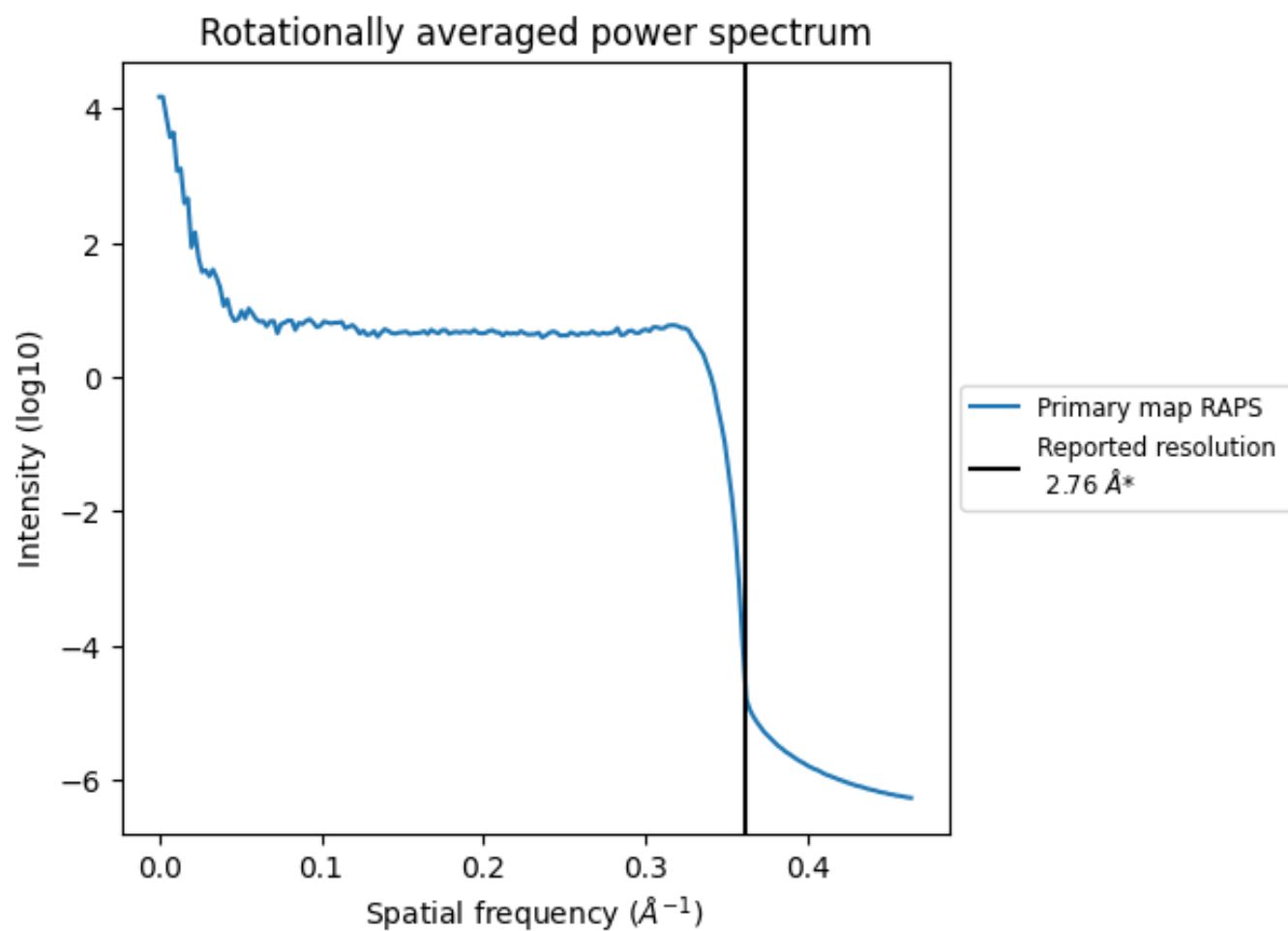
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1534 nm³; this corresponds to an approximate mass of 1385 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.362 Å⁻¹

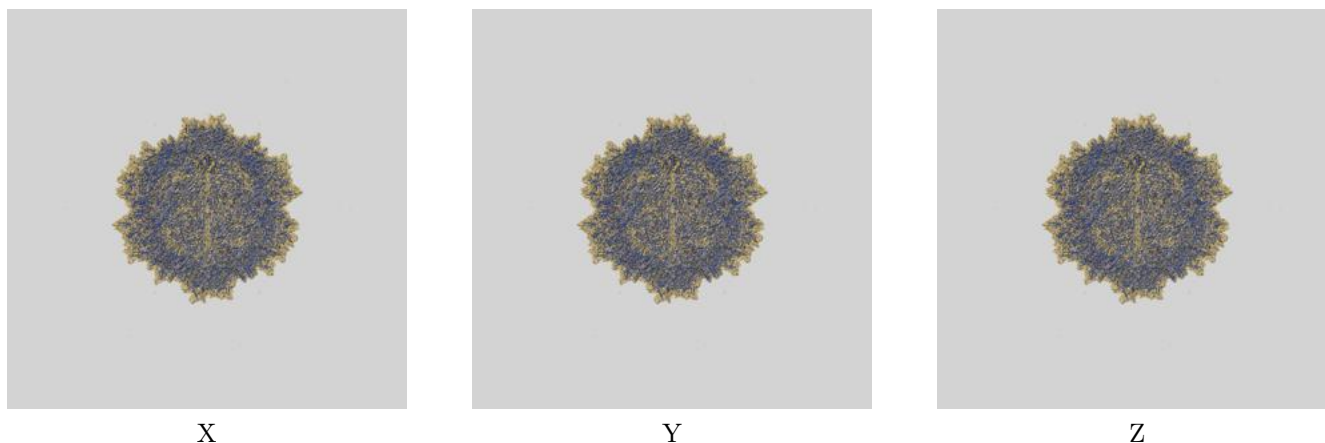
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

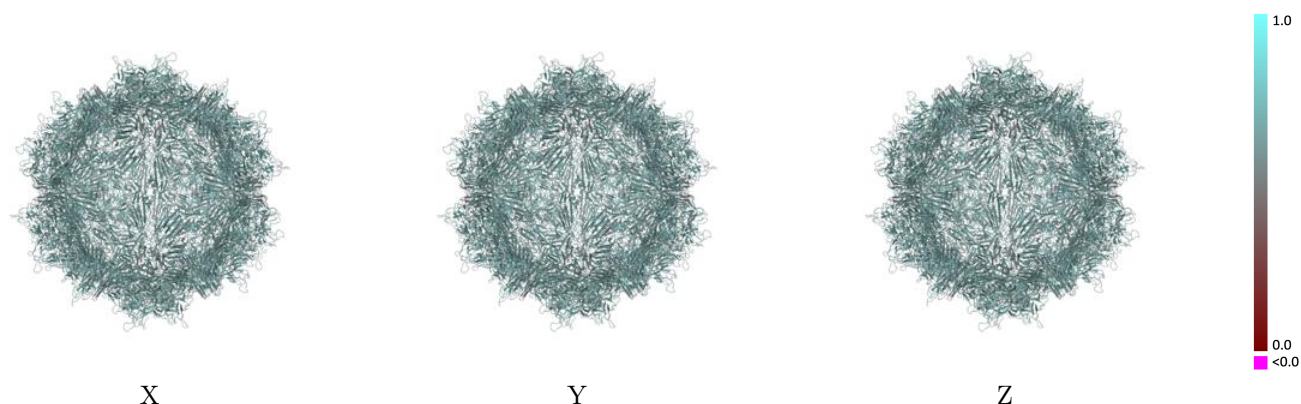
This section contains information regarding the fit between EMDB map EMD-23205 and PDB model 7L6I. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



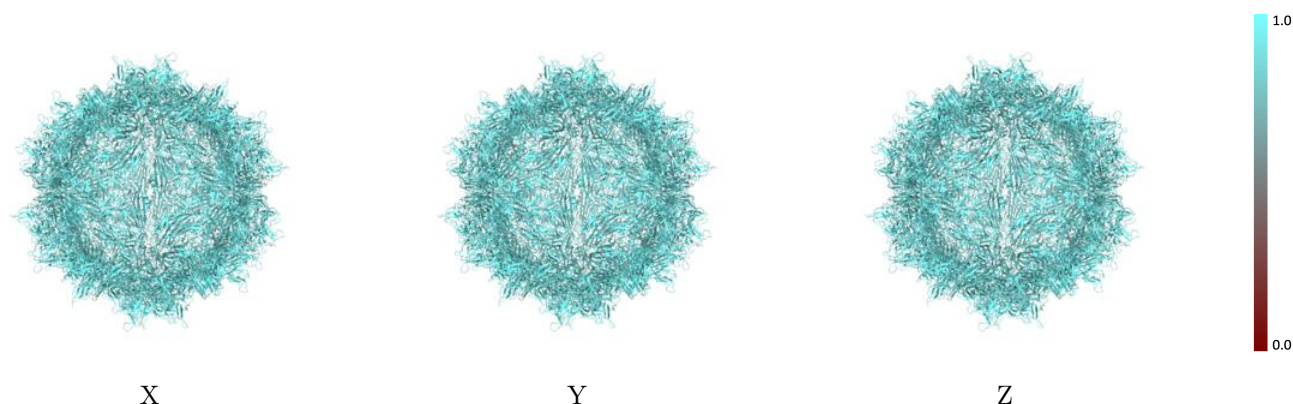
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



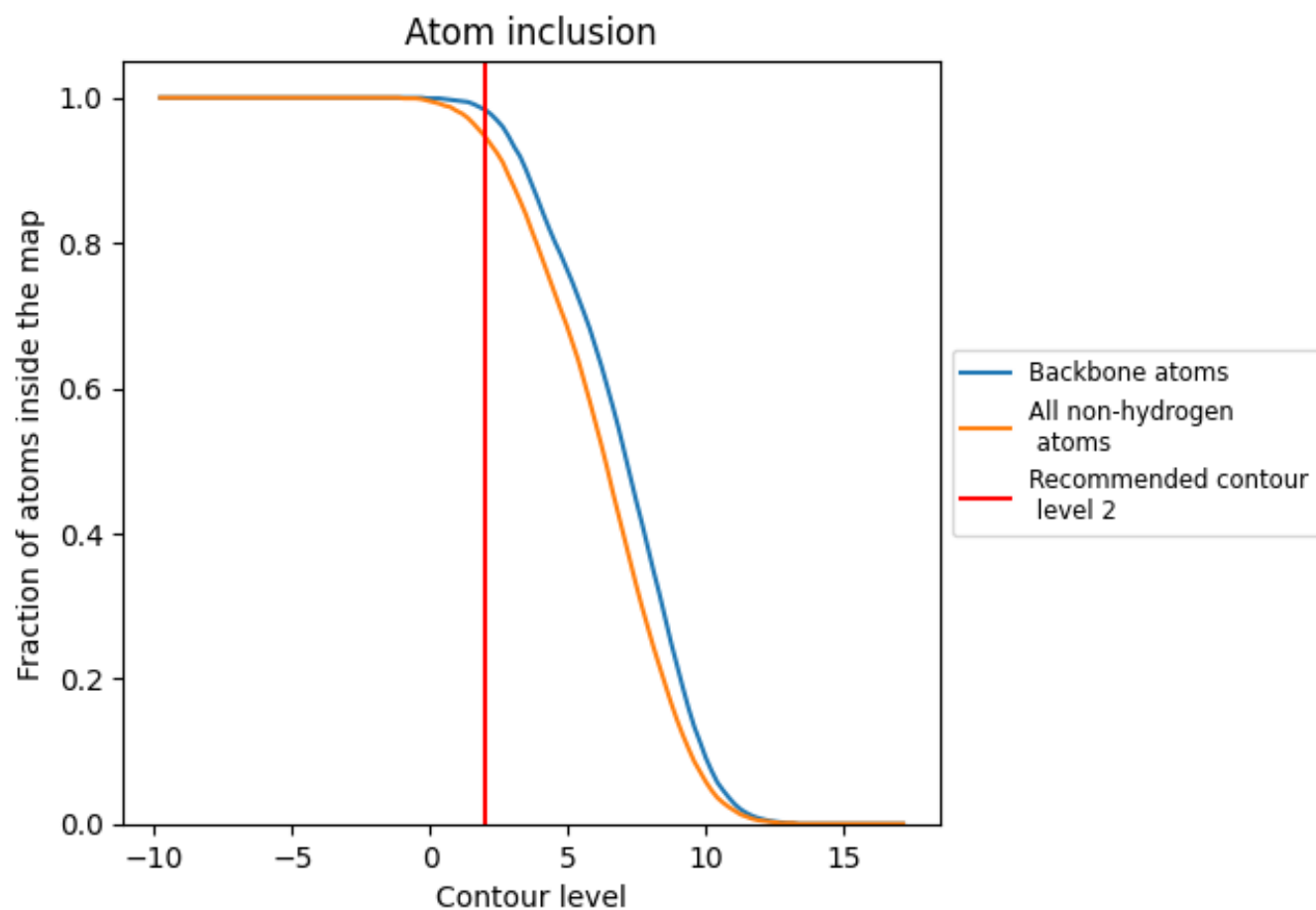
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 95% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9460	 0.6250
1	 0.9470	 0.6250
2	 0.9460	 0.6240
3	 0.9460	 0.6250
4	 0.9470	 0.6260
5	 0.9480	 0.6250
6	 0.9480	 0.6240
7	 0.9480	 0.6250
8	 0.9460	 0.6260
A	 0.9460	 0.6250
B	 0.9470	 0.6250
C	 0.9460	 0.6250
D	 0.9480	 0.6250
E	 0.9460	 0.6250
F	 0.9460	 0.6250
G	 0.9460	 0.6240
H	 0.9480	 0.6250
I	 0.9470	 0.6250
J	 0.9460	 0.6250
K	 0.9470	 0.6250
L	 0.9460	 0.6250
M	 0.9460	 0.6260
N	 0.9480	 0.6250
O	 0.9460	 0.6250
P	 0.9480	 0.6250
Q	 0.9470	 0.6250
R	 0.9470	 0.6250
S	 0.9460	 0.6250
T	 0.9470	 0.6260
U	 0.9460	 0.6260
V	 0.9460	 0.6250
W	 0.9480	 0.6250
X	 0.9460	 0.6250
Y	 0.9480	 0.6250
Z	 0.9460	 0.6250



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Chain	Atom inclusion	Q-score
a	 0.9460	 0.6250
b	 0.9460	 0.6260
c	 0.9460	 0.6250
d	 0.9460	 0.6250
e	 0.9460	 0.6250
f	 0.9460	 0.6250
g	 0.9470	 0.6240
h	 0.9450	 0.6250
i	 0.9480	 0.6250
j	 0.9480	 0.6260
k	 0.9480	 0.6250
l	 0.9460	 0.6250
m	 0.9470	 0.6260
n	 0.9460	 0.6250
o	 0.9460	 0.6250
p	 0.9460	 0.6250
q	 0.9470	 0.6250
r	 0.9460	 0.6250
s	 0.9460	 0.6250
t	 0.9460	 0.6240
u	 0.9470	 0.6240
v	 0.9460	 0.6250
w	 0.9460	 0.6240
x	 0.9470	 0.6250
y	 0.9460	 0.6250
z	 0.9460	 0.6250