Full wwPDB EM Validation Report

Mar 20, 2026 – 04:40 PM UTC

PDB ID	:	7RWL / pdb_00007rwl
EMDB ID	:	EMD-24718
Title	:	Envelope-associated Adeno-associated virus serotype 2
Authors	:	Hull, J.A.; Mietzsch, M.; Chipman, P.; Strugatsky, D.; McKenna, R.
Deposited on	:	2021-08-20
Resolution	:	3.14 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:

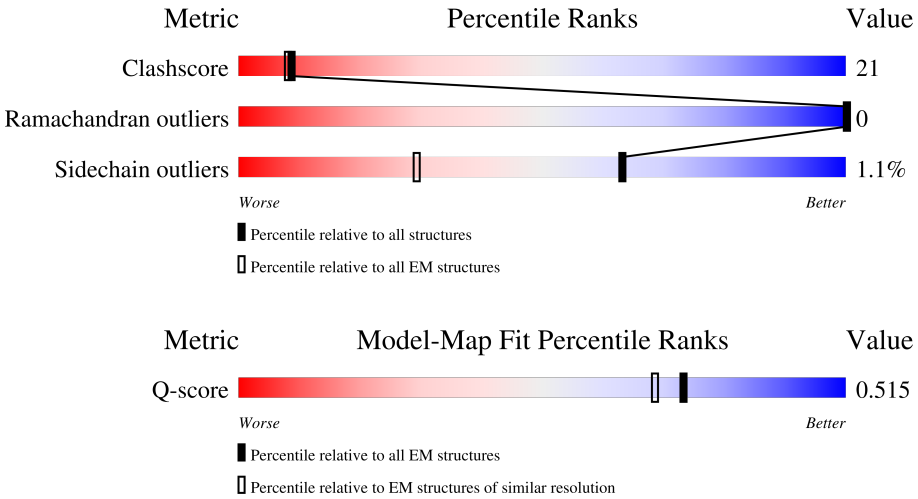
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 3.14 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14483 (2.64 - 3.64)

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

Mol	Chain	Length	Quality of chain
1	1	735	8% 44% 25% · 30%
1	2	735	8% 43% 26% · 30%
1	3	735	8% 43% 26% · 30%
1	4	735	8% 43% 26% · 30%

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Mol	Chain	Length	Quality of chain
1	5	735	8% 43% 26% 30%
1	6	735	9% 43% 26% 30%
1	7	735	8% 43% 26% 30%
1	8	735	8% 44% 25% 30%
1	A	735	8% 43% 26% 30%
1	B	735	8% 44% 25% 30%
1	C	735	7% 44% 25% 30%
1	D	735	8% 43% 25% 30%
1	E	735	7% 44% 25% 30%
1	F	735	8% 43% 26% 30%
1	G	735	8% 43% 26% 30%
1	H	735	8% 43% 26% 30%
1	I	735	7% 44% 25% 30%
1	J	735	8% 43% 26% 30%
1	K	735	7% 43% 26% 30%
1	L	735	8% 44% 25% 30%
1	M	735	8% 44% 25% 30%
1	N	735	8% 44% 25% 30%
1	O	735	8% 43% 26% 30%
1	P	735	9% 43% 26% 30%
1	Q	735	8% 44% 25% 30%
1	R	735	8% 44% 25% 30%
1	S	735	8% 44% 25% 30%
1	T	735	8% 43% 25% 30%
1	U	735	8% 44% 25% 30%

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Mol	Chain	Length	Quality of chain
1	V	735	8% 43% 25% 30%
1	W	735	8% 43% 26% 30%
1	X	735	8% 43% 26% 30%
1	Y	735	9% 43% 26% 30%
1	Z	735	7% 44% 25% 30%
1	a	735	8% 43% 26% 30%
1	b	735	8% 43% 26% 30%
1	c	735	8% 43% 26% 30%
1	d	735	9% 43% 26% 30%
1	e	735	9% 43% 26% 30%
1	f	735	9% 44% 25% 30%
1	g	735	8% 44% 25% 30%
1	h	735	9% 44% 25% 30%
1	i	735	9% 43% 26% 30%
1	j	735	9% 43% 26% 30%
1	k	735	9% 44% 25% 30%
1	l	735	9% 43% 26% 30%
1	m	735	8% 43% 25% 30%
1	n	735	9% 43% 26% 30%
1	o	735	8% 44% 25% 30%
1	p	735	8% 44% 25% 30%
1	q	735	9% 44% 25% 30%
1	r	735	9% 44% 25% 30%
1	s	735	8% 44% 25% 30%
1	t	735	8% 43% 26% 30%

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Mol	Chain	Length	Quality of chain
1	u	735	8% 44% 25% 30%
1	v	735	9% 43% 26% 30%
1	w	735	9% 43% 25% 30%
1	x	735	8% 44% 25% 30%
1	y	735	9% 43% 26% 30%
1	z	735	8% 44% 25% 30%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 248580 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	B	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	C	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	D	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	E	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	F	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	G	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	H	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	I	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	J	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	K	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	L	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	M	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	N	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	O	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	P	517	Total 4143	C 2607	N 723	O 800	S 13	0	0
1	Q	517	Total 4143	C 2607	N 723	O 800	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	S	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	T	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	U	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	V	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	W	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	X	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	Y	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	Z	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	a	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	b	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	c	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	d	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	e	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	f	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	g	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	h	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	i	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	j	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	k	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	l	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	n	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	o	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	p	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	q	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	r	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	s	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	t	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	u	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	v	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	w	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	x	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	y	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	z	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	1	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	2	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	3	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	4	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	5	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	6	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		
1	7	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		

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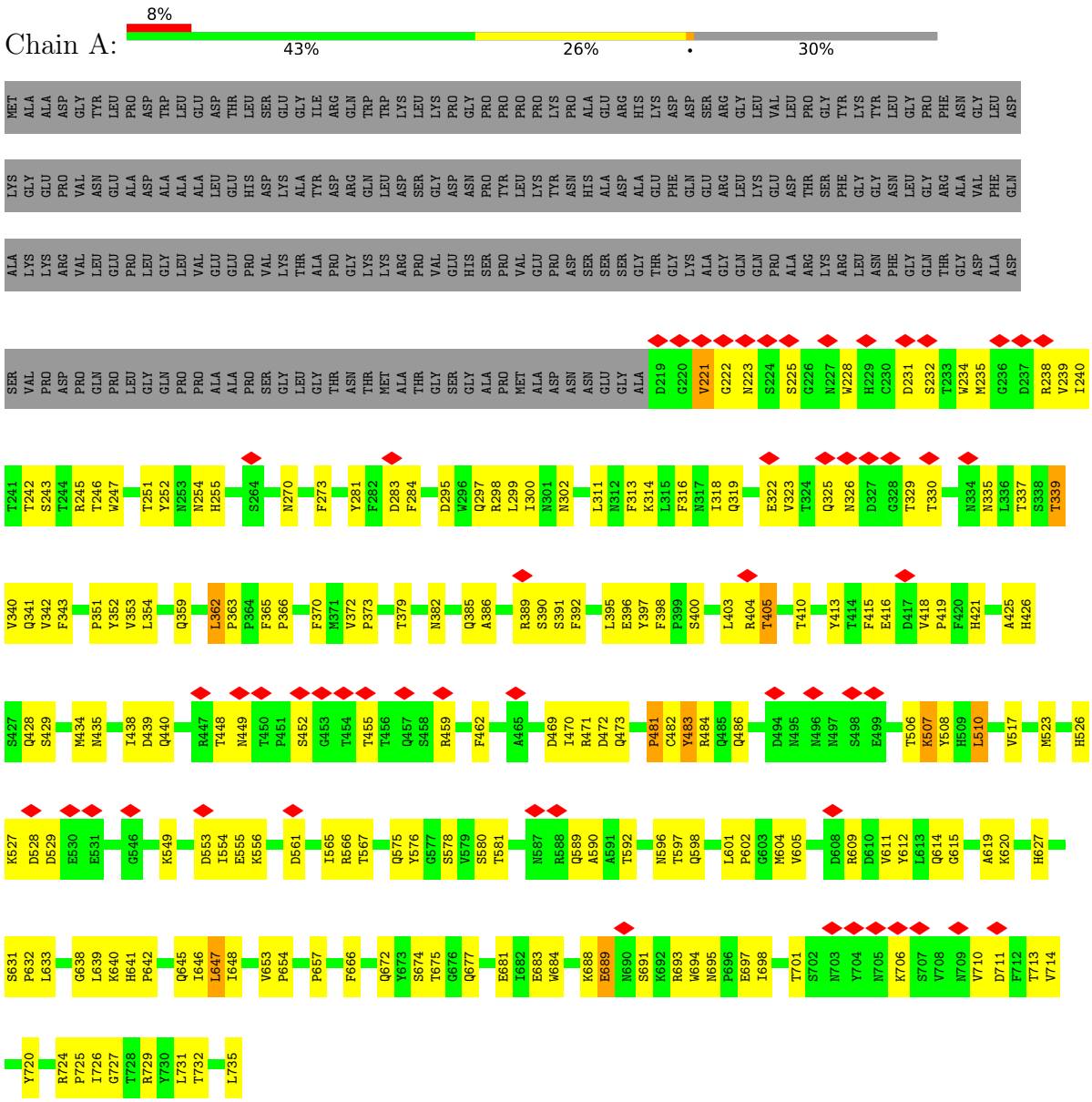
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	517	Total	C	N	O	S	0	0
			4143	2607	723	800	13		

3 Residue-property plots (i)

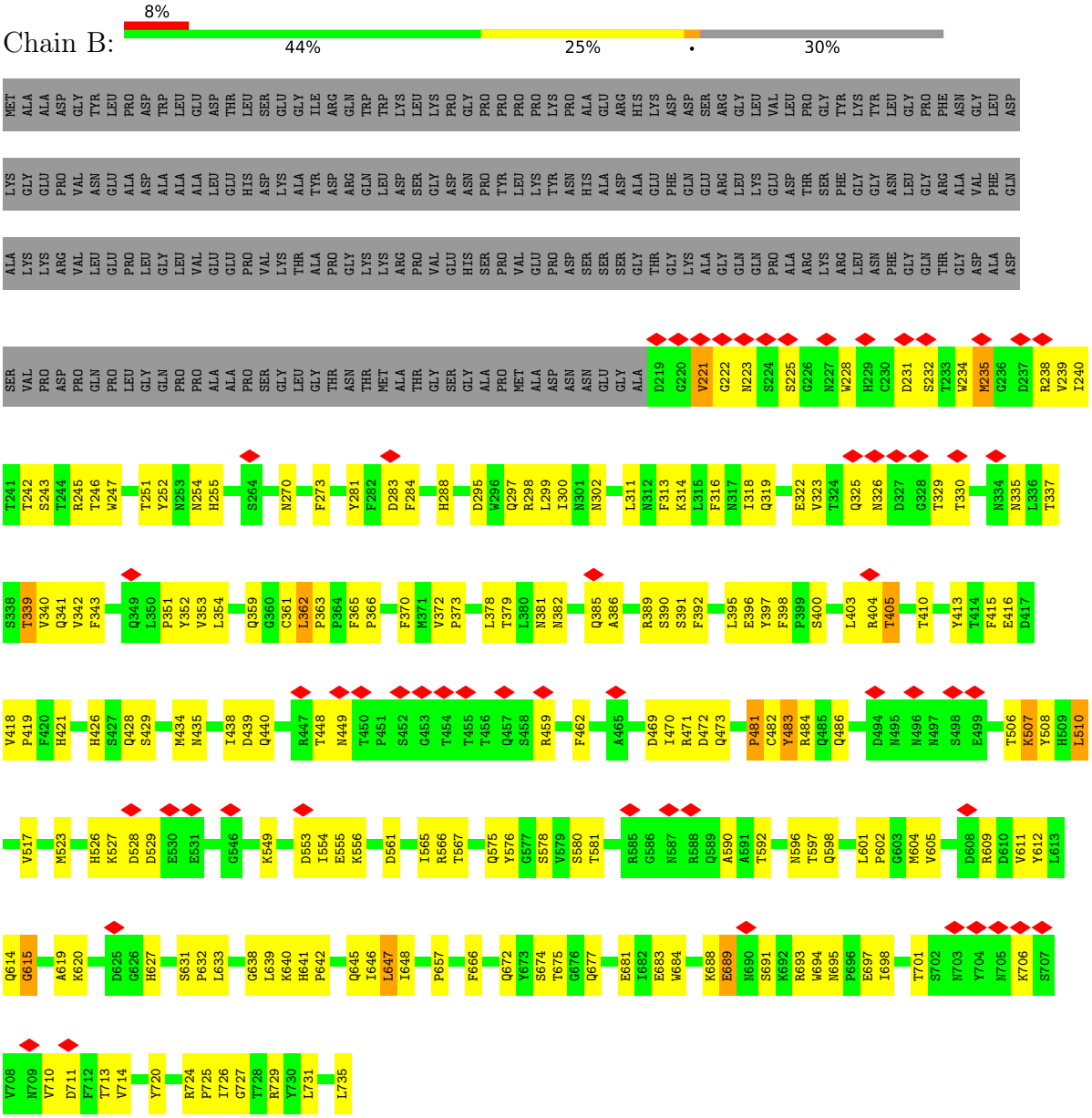
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Capsid protein VP1



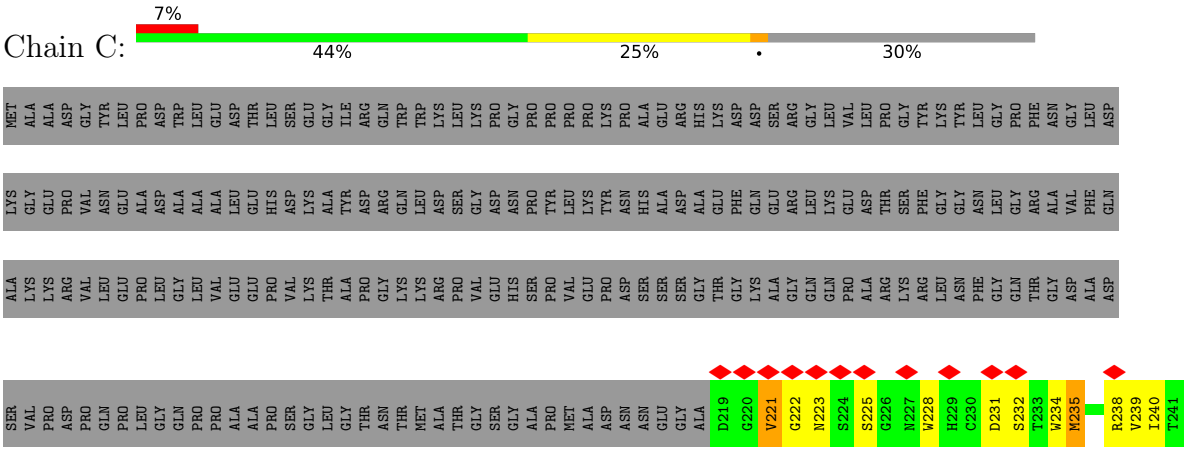
• Molecule 1: Capsid protein VP1

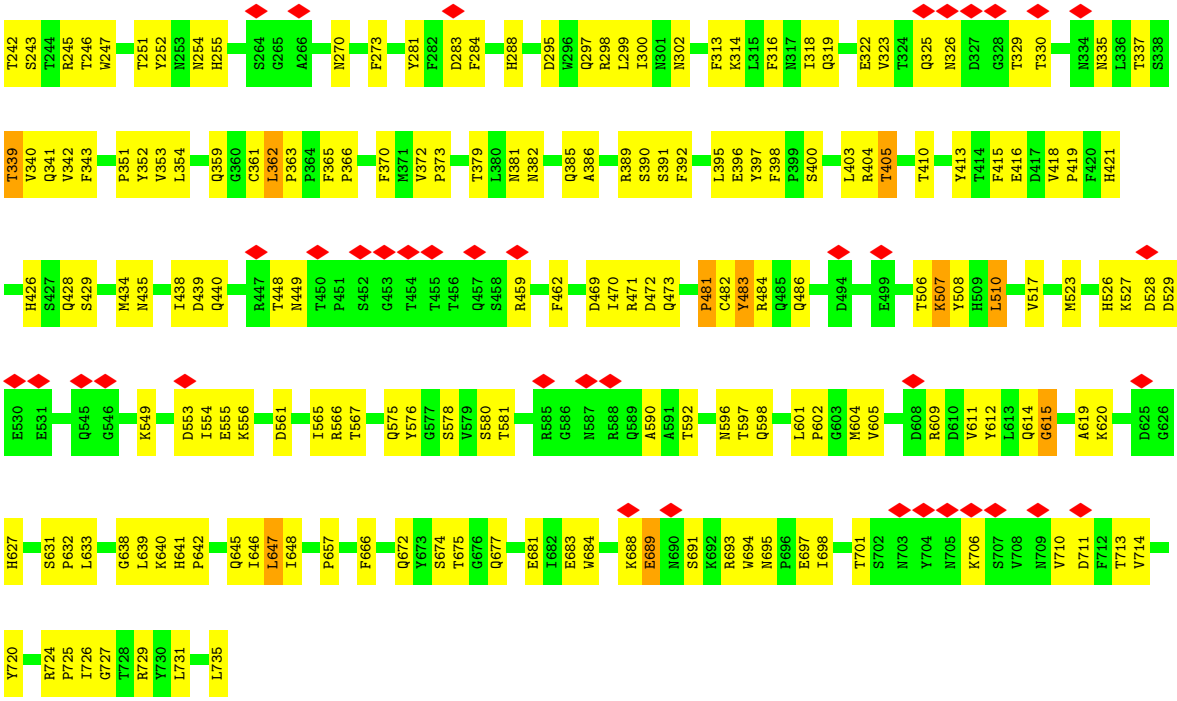
Chain B:



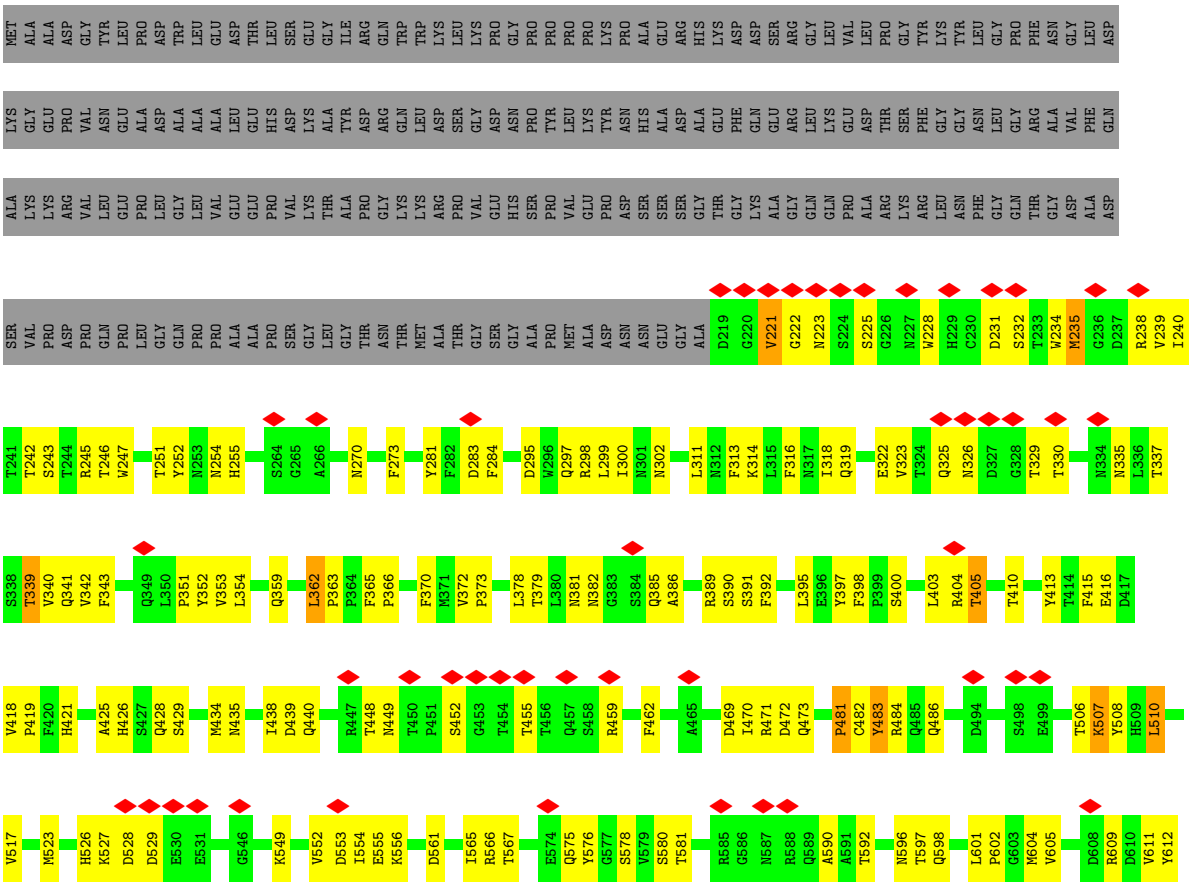
• Molecule 1: Capsid protein VP1

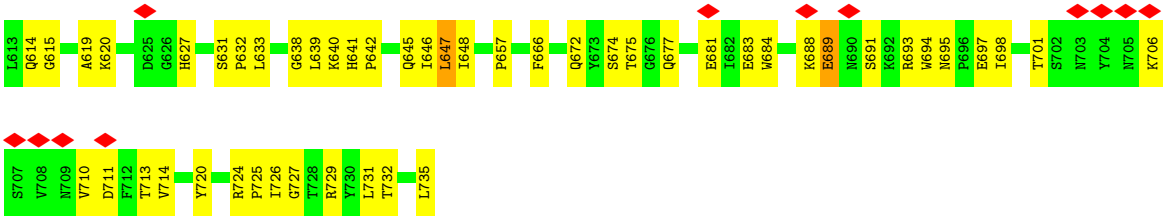
Chain C:



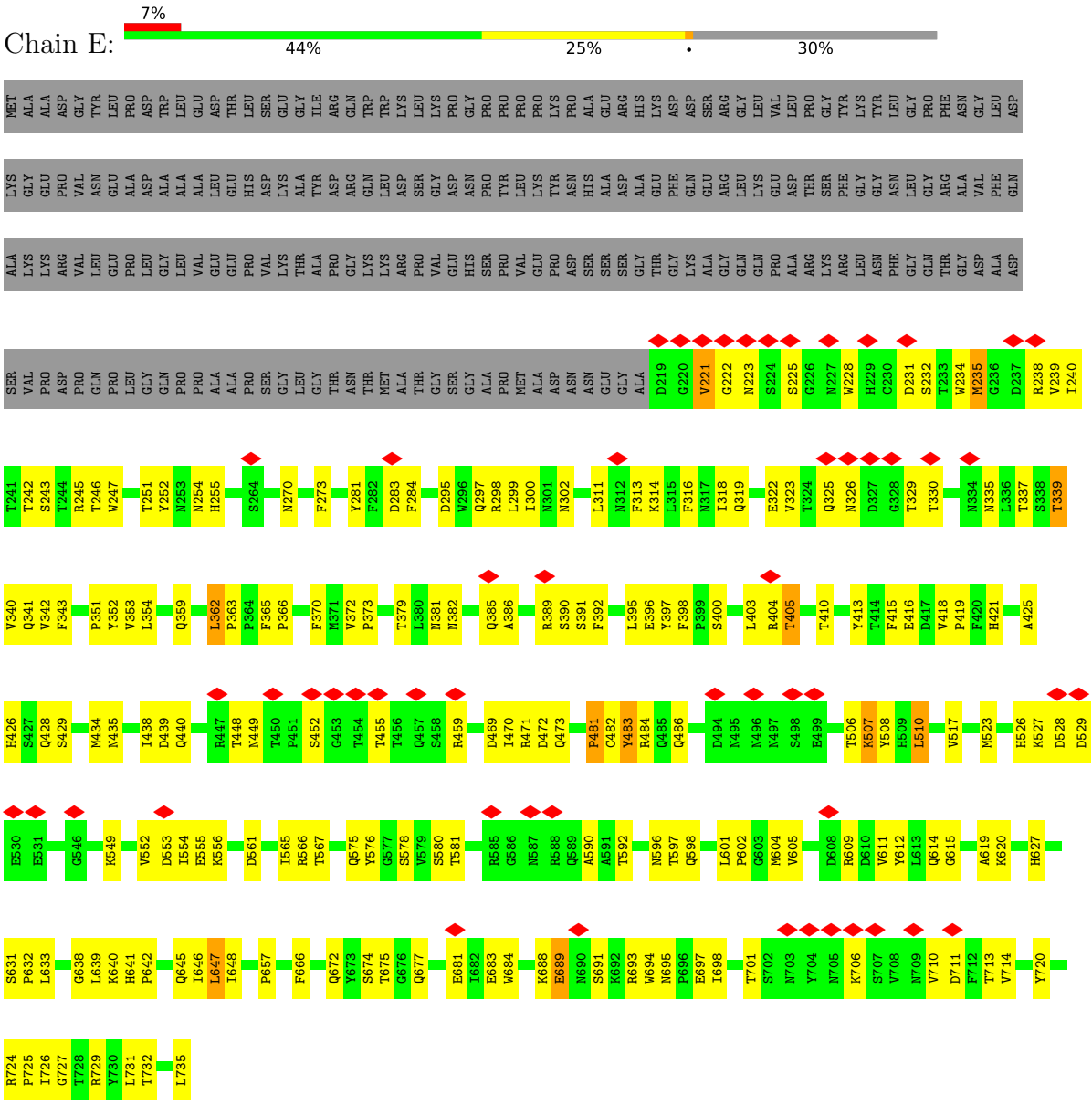


• Molecule 1: Capsid protein VP1

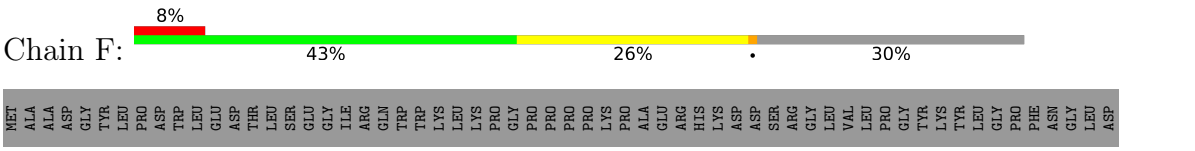


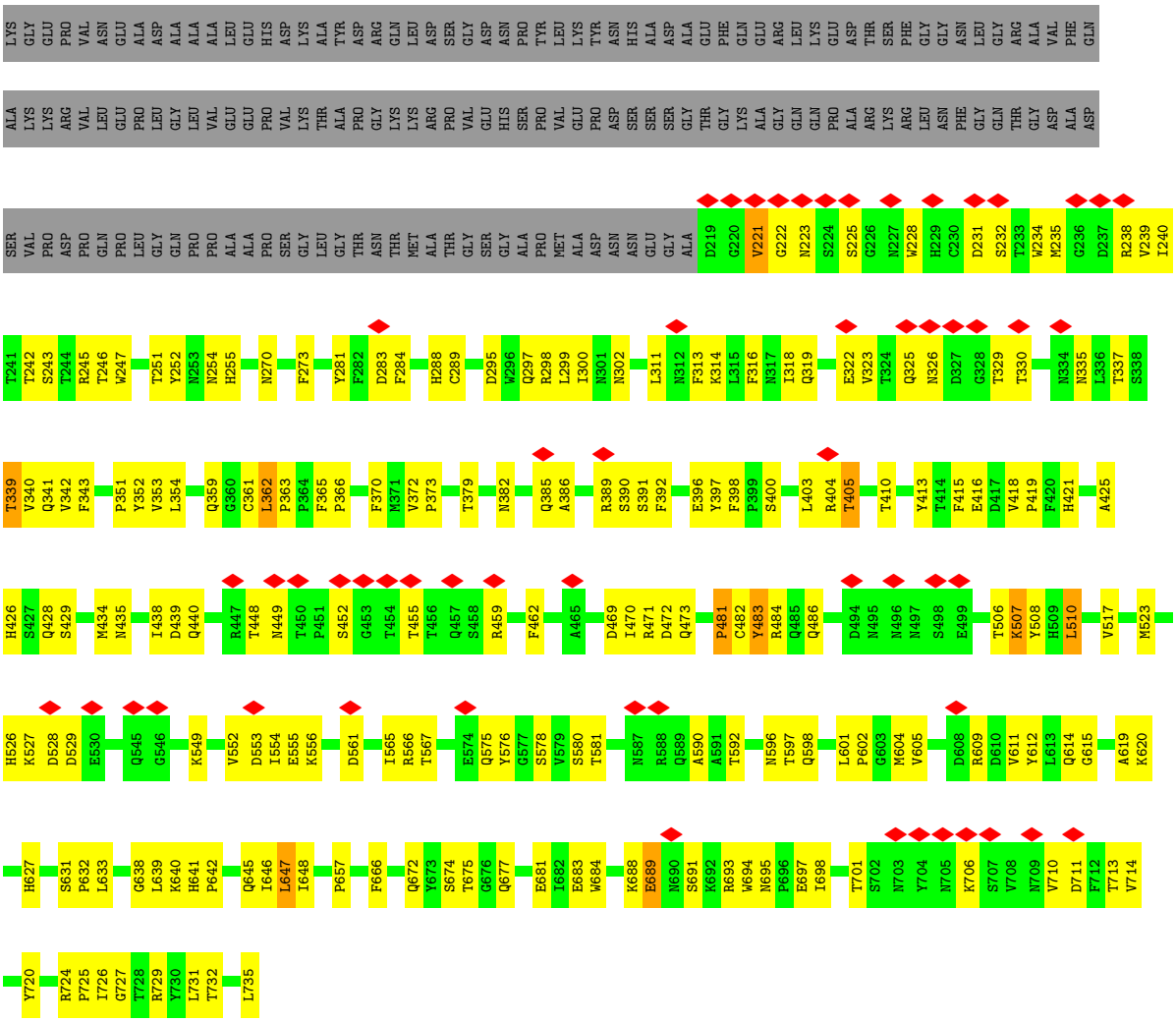


• Molecule 1: Capsid protein VP1



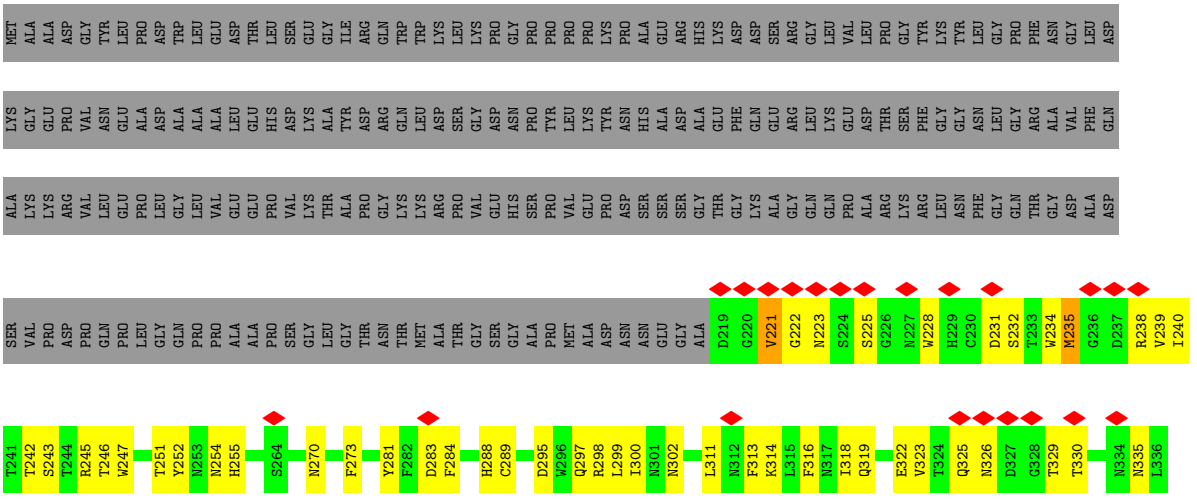
• Molecule 1: Capsid protein VP1

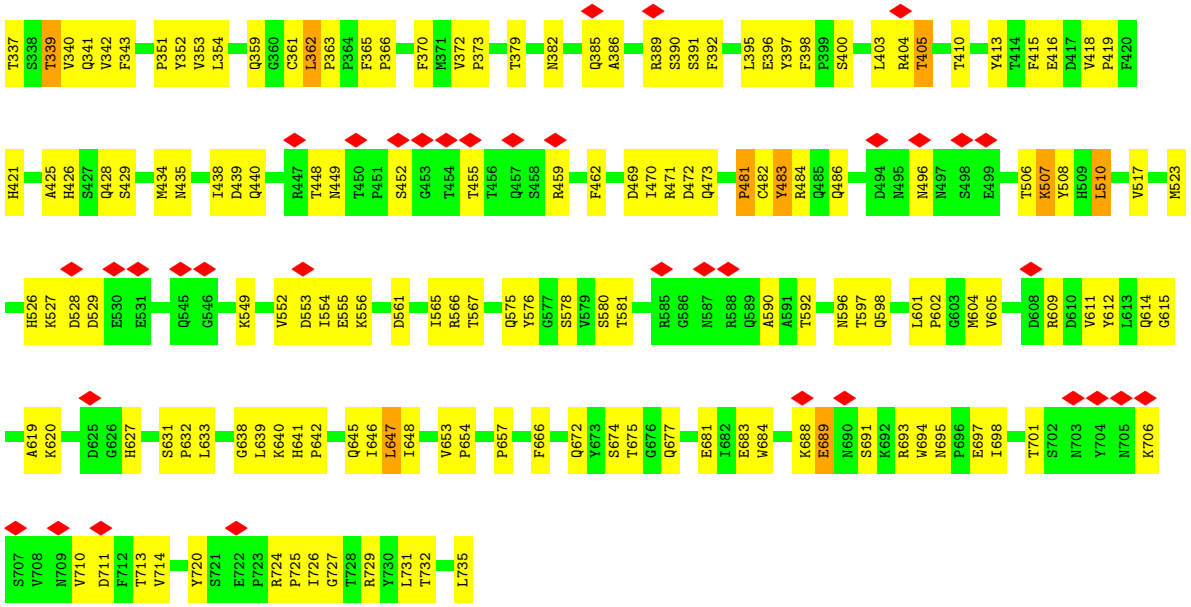




• Molecule 1: Capsid protein VP1

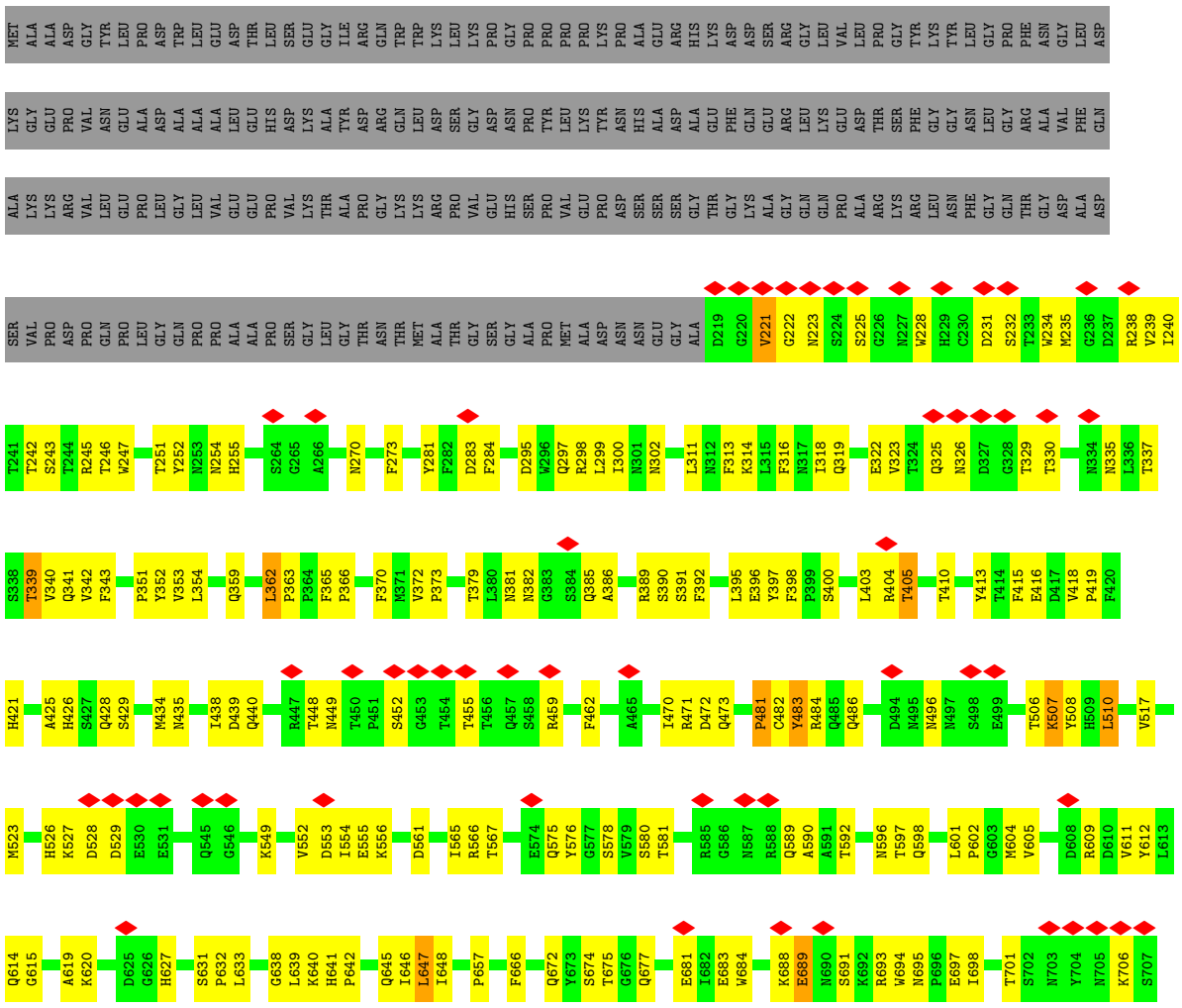
Chain G:

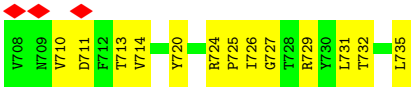




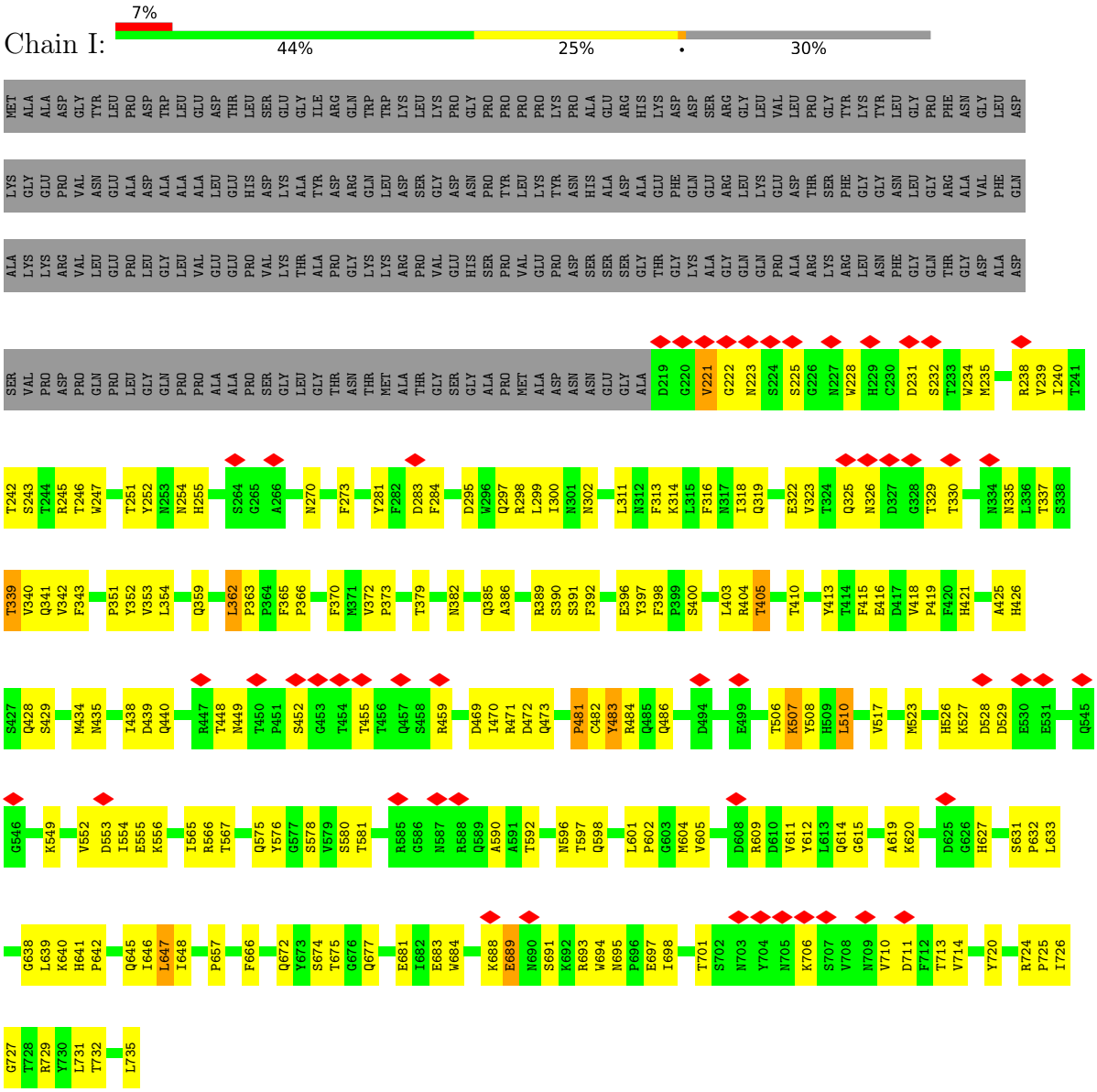
• Molecule 1: Capsid protein VP1

Chain H:

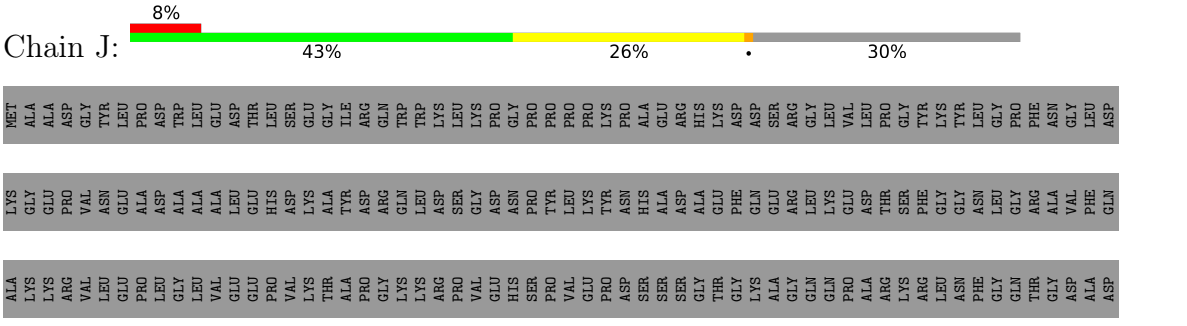


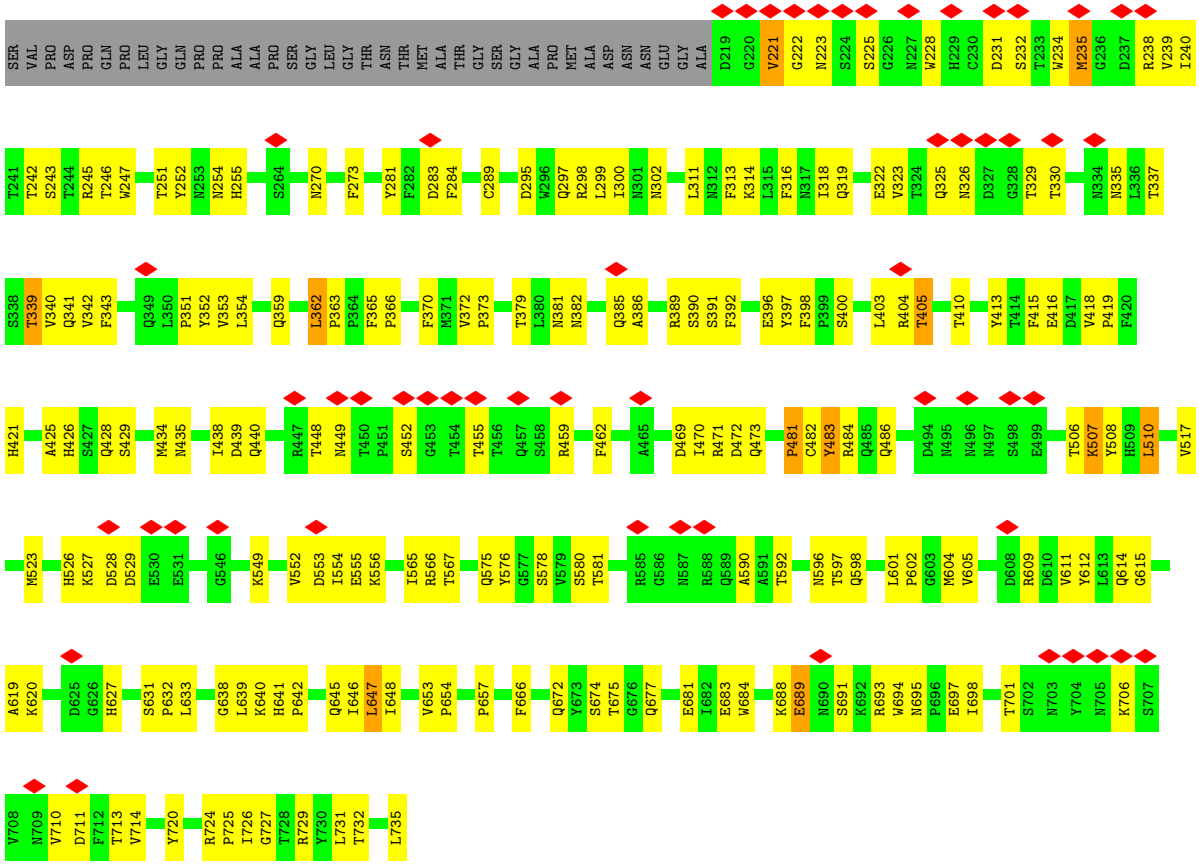


• Molecule 1: Capsid protein VP1



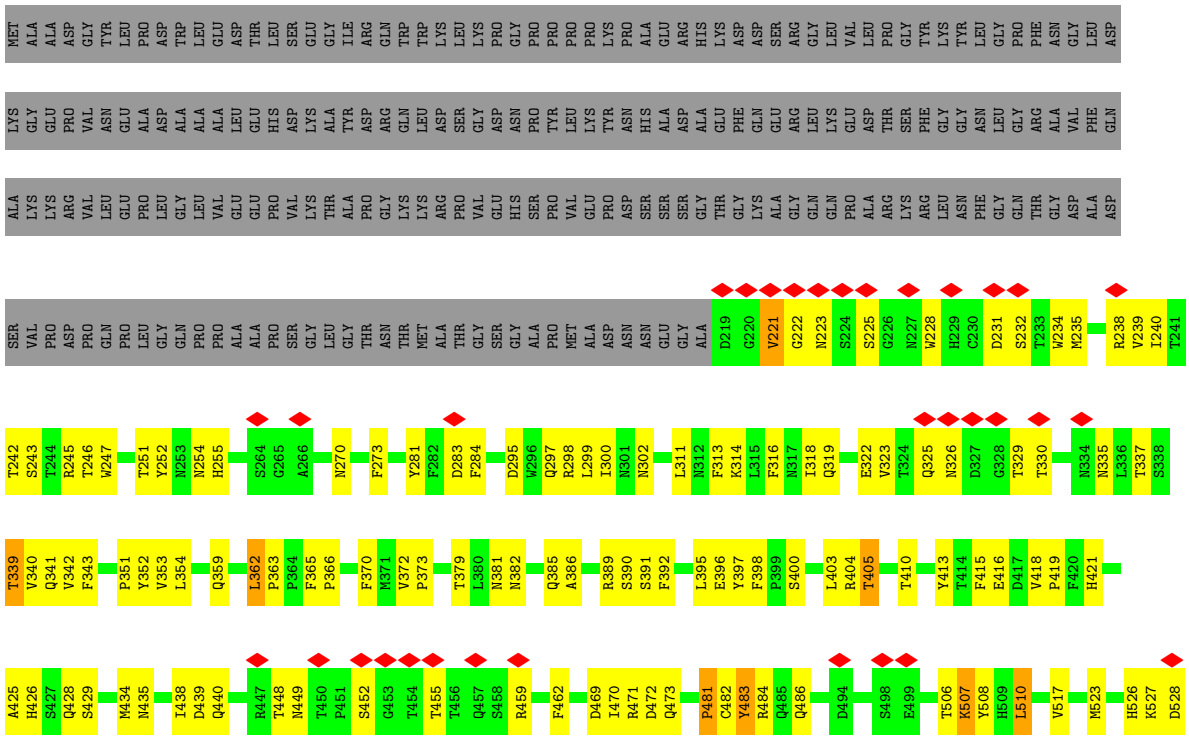
• Molecule 1: Capsid protein VP1

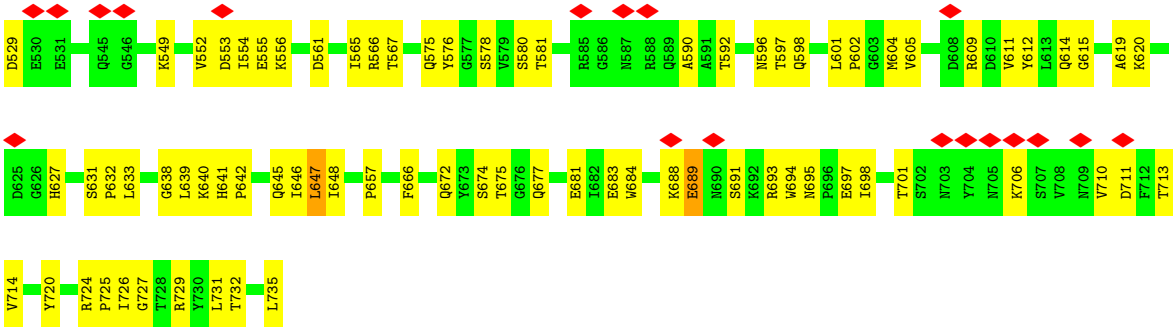




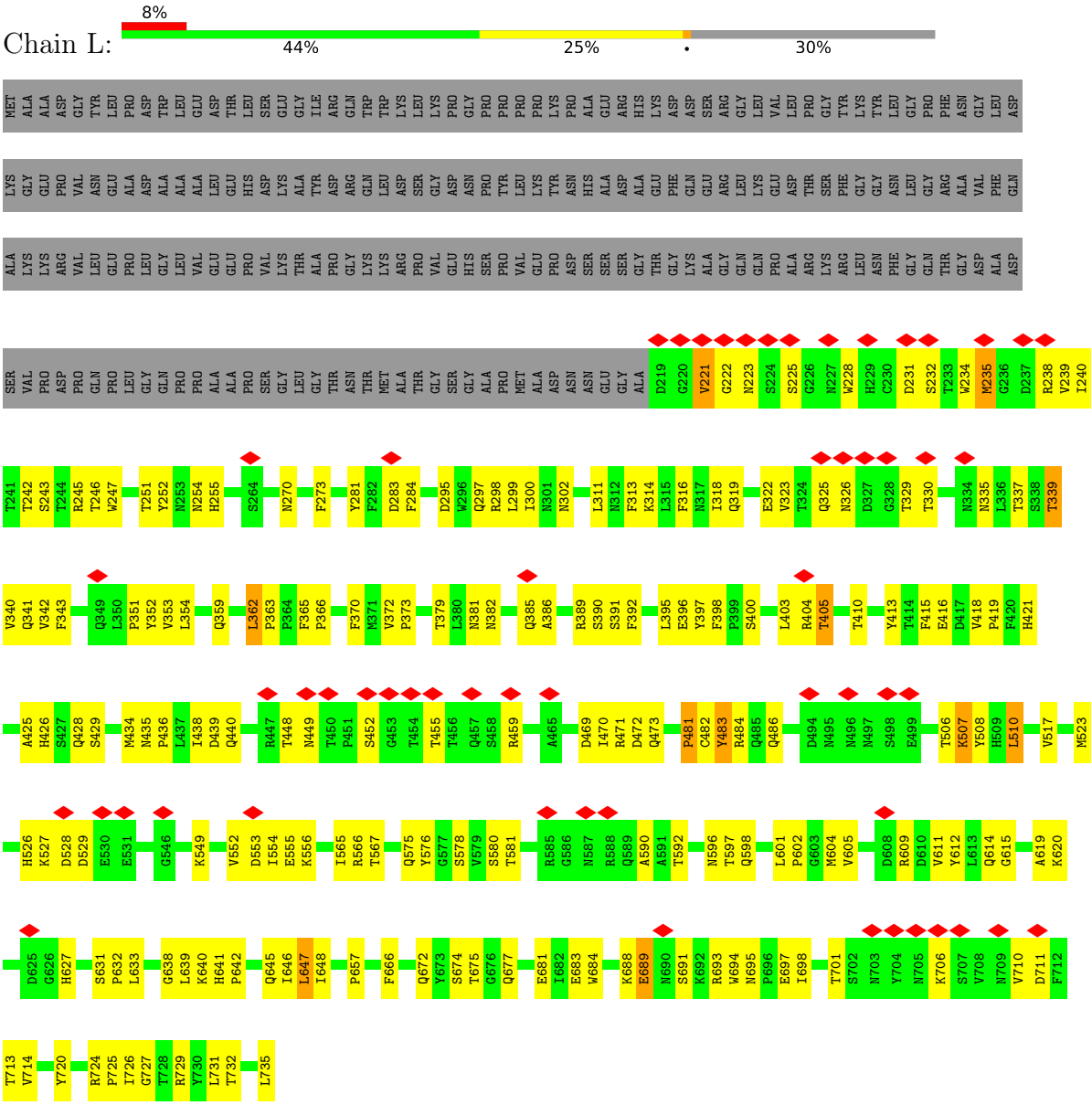
• Molecule 1: Capsid protein VP1

Chain K:

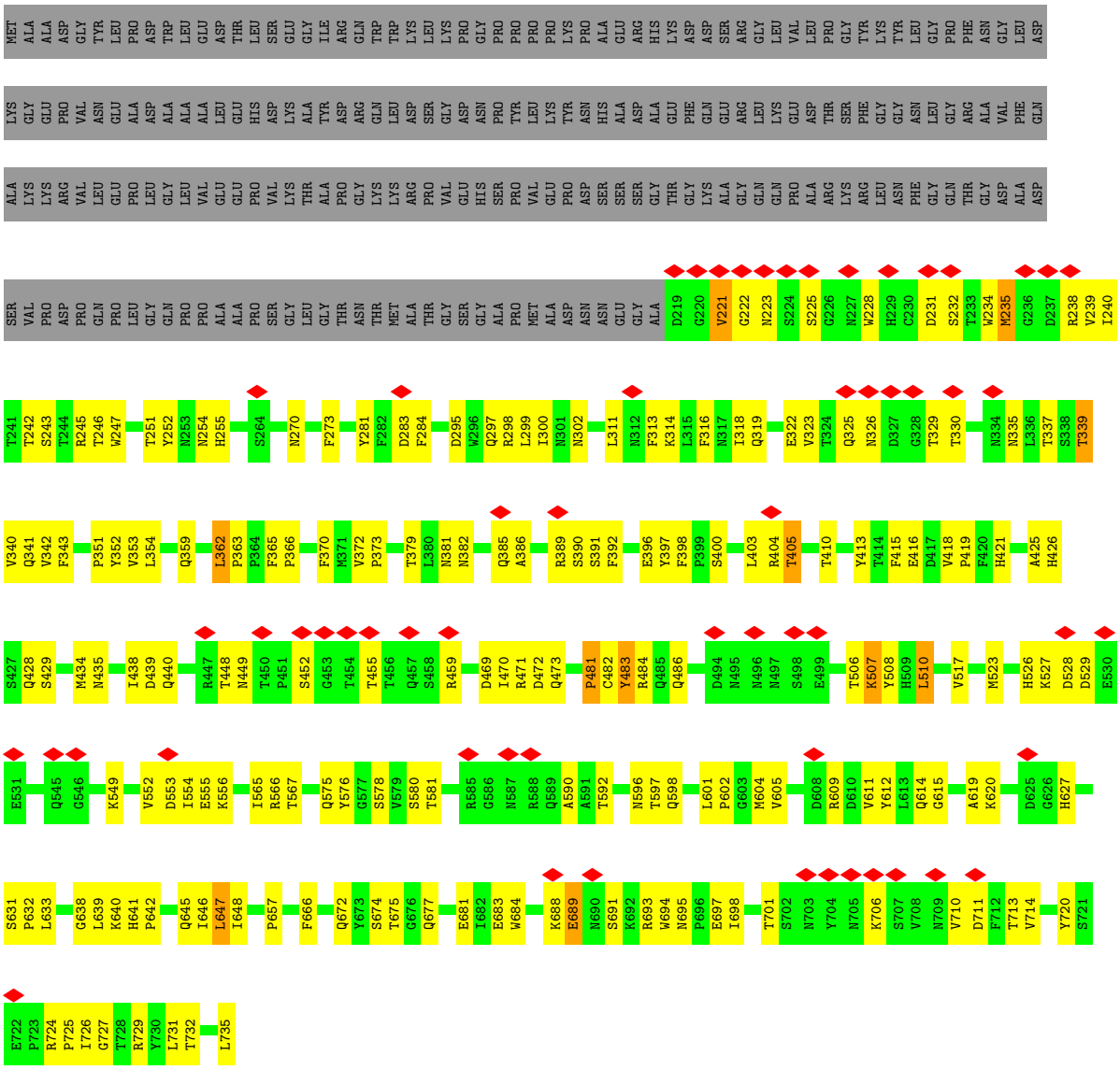




• Molecule 1: Capsid protein VP1

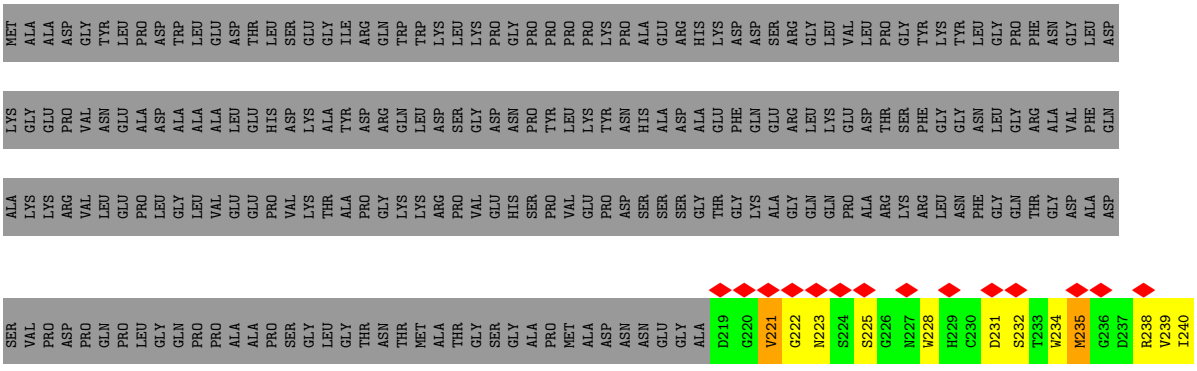


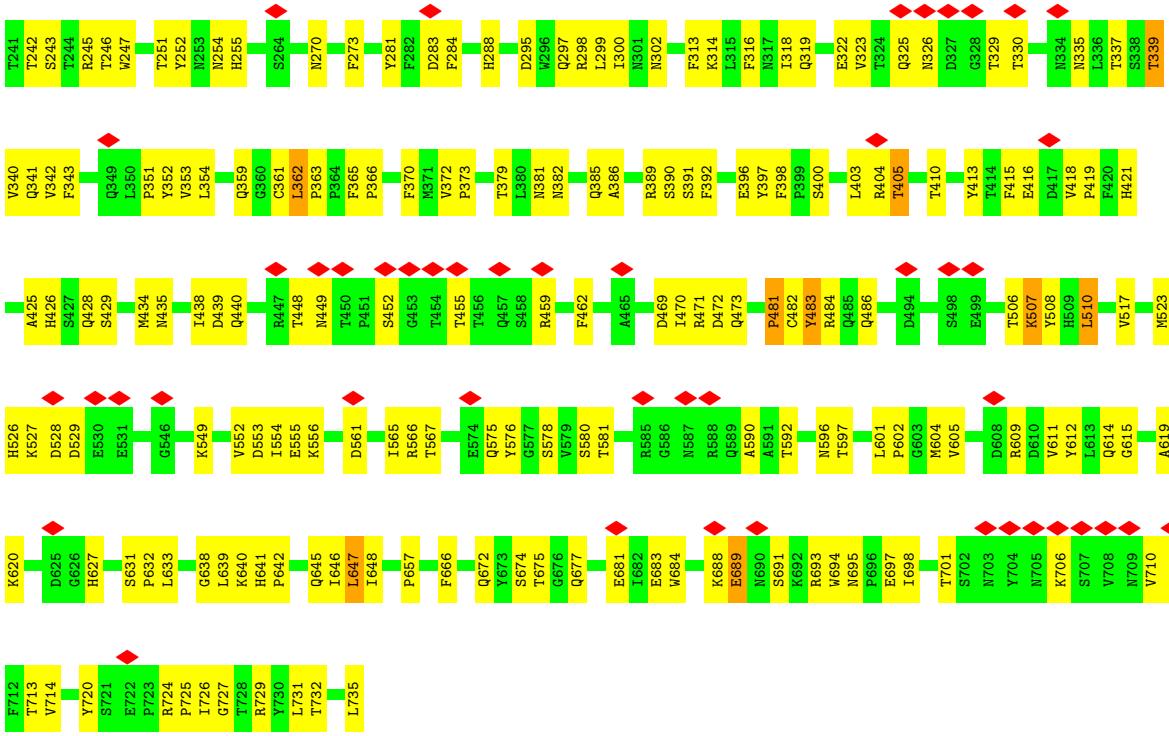
• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

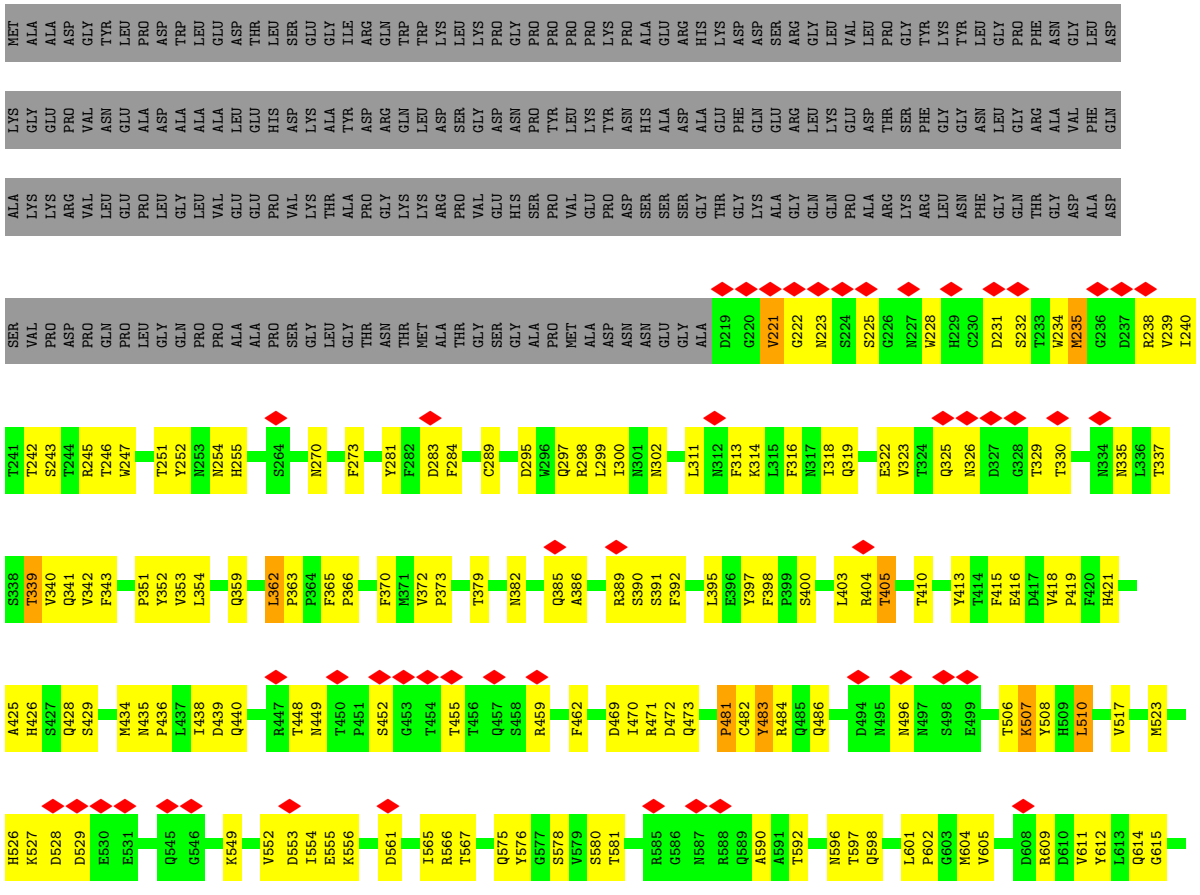
Chain N:

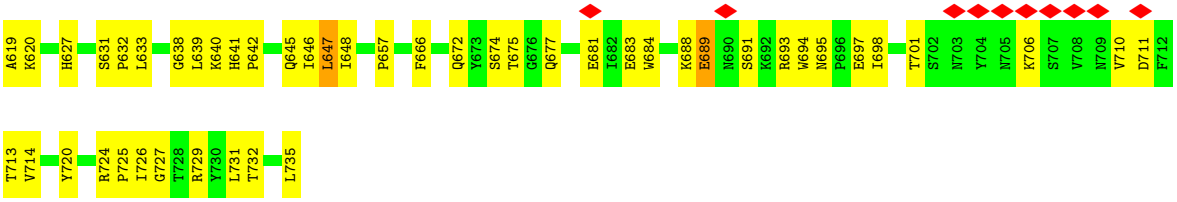




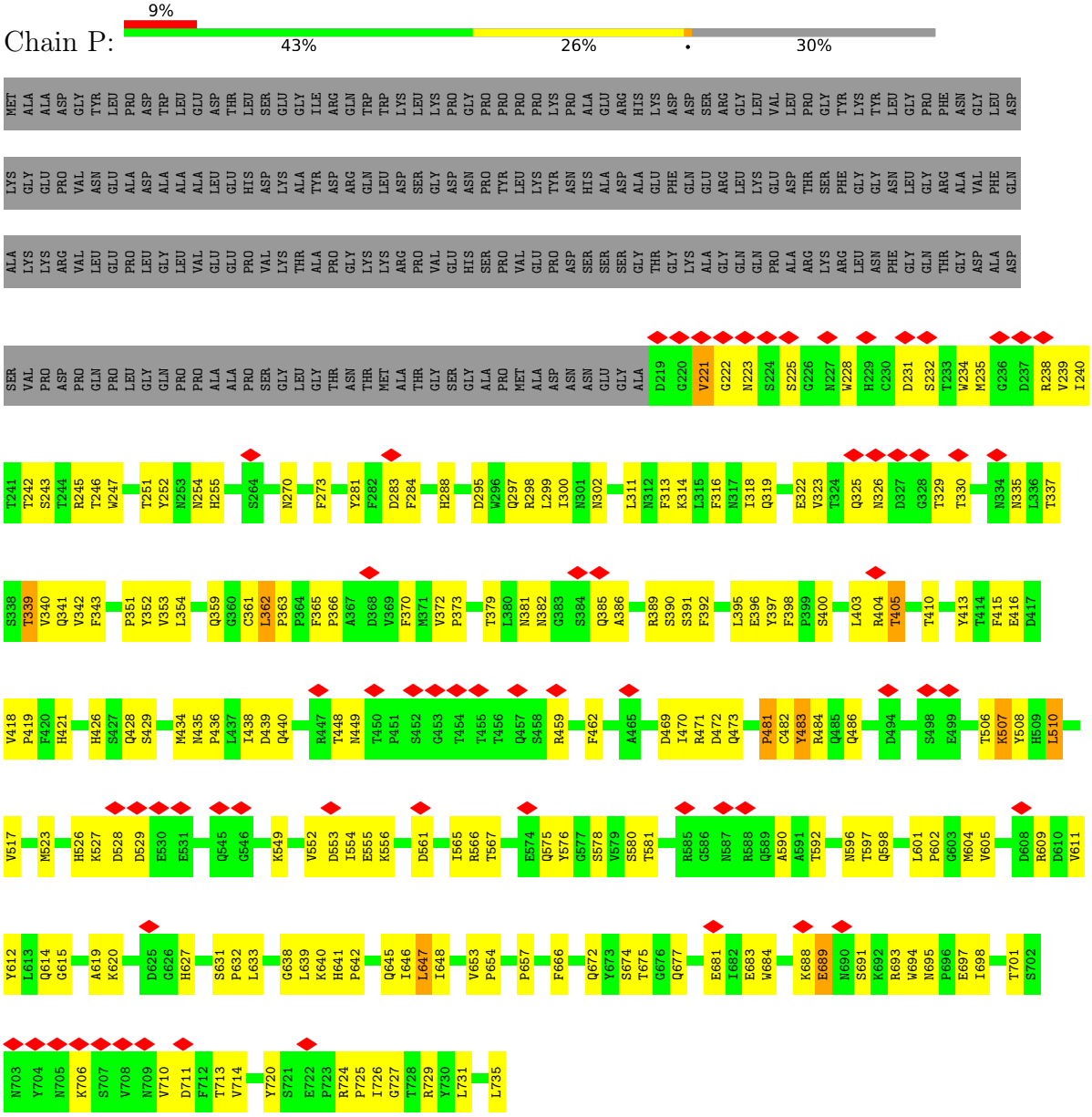
• Molecule 1: Capsid protein VP1

Chain O:

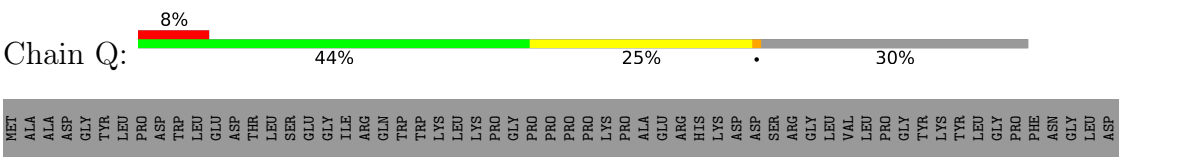


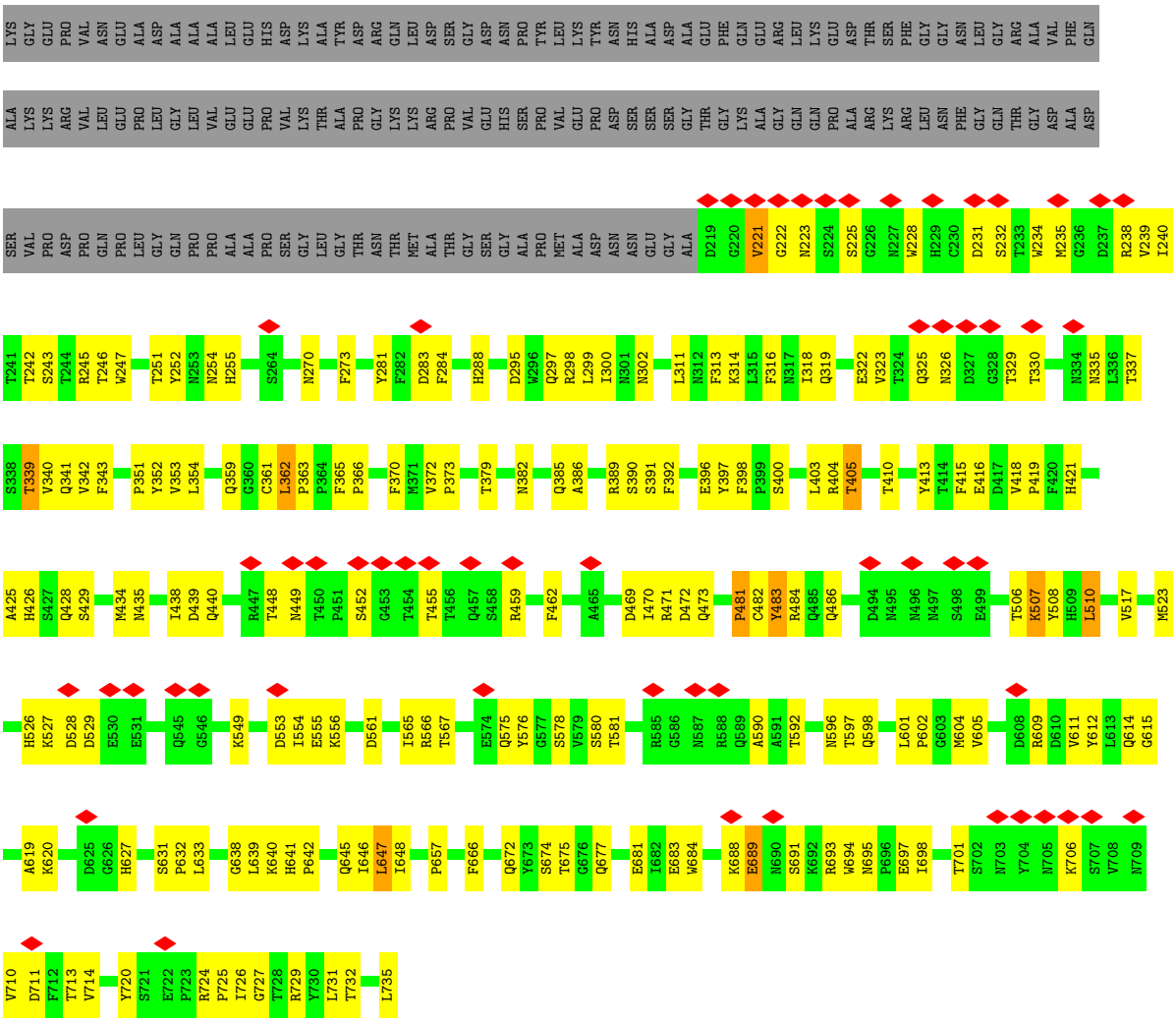


• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1

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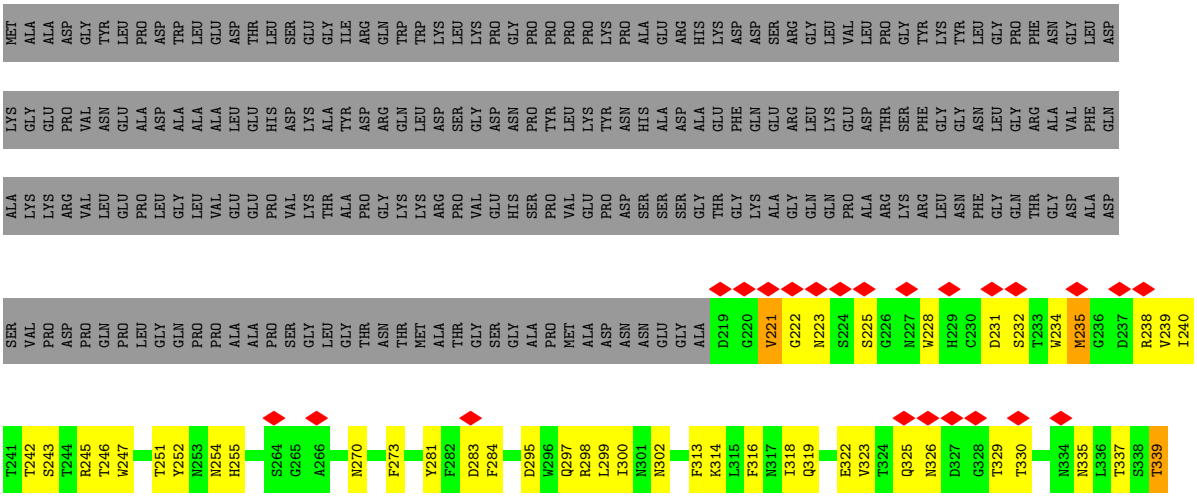

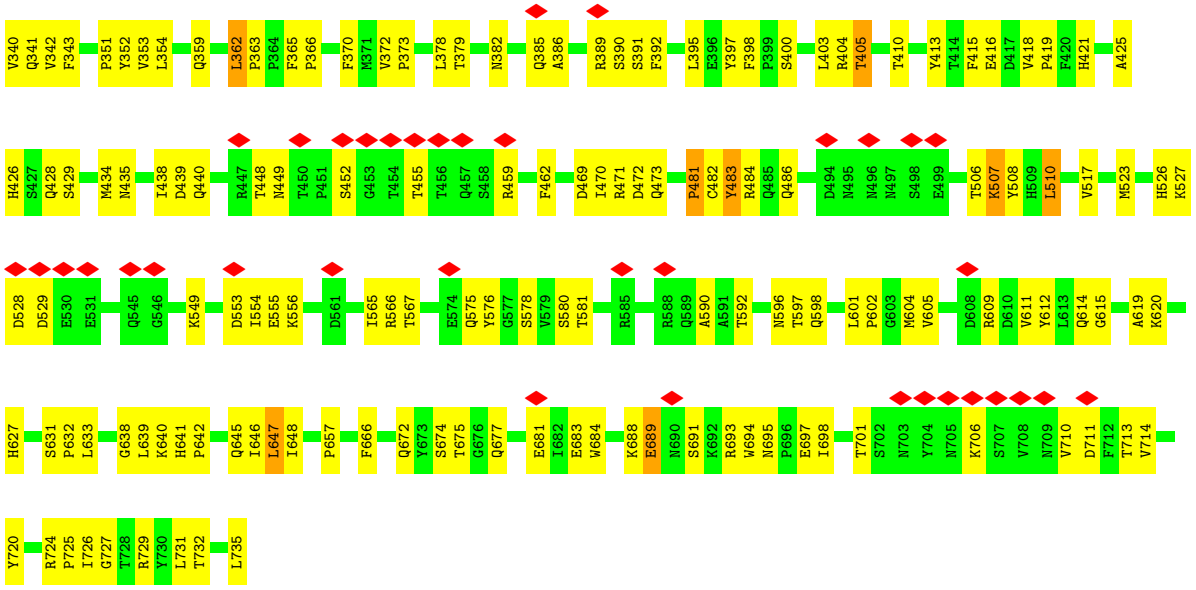

• Molecule 1: Capsid protein VP1

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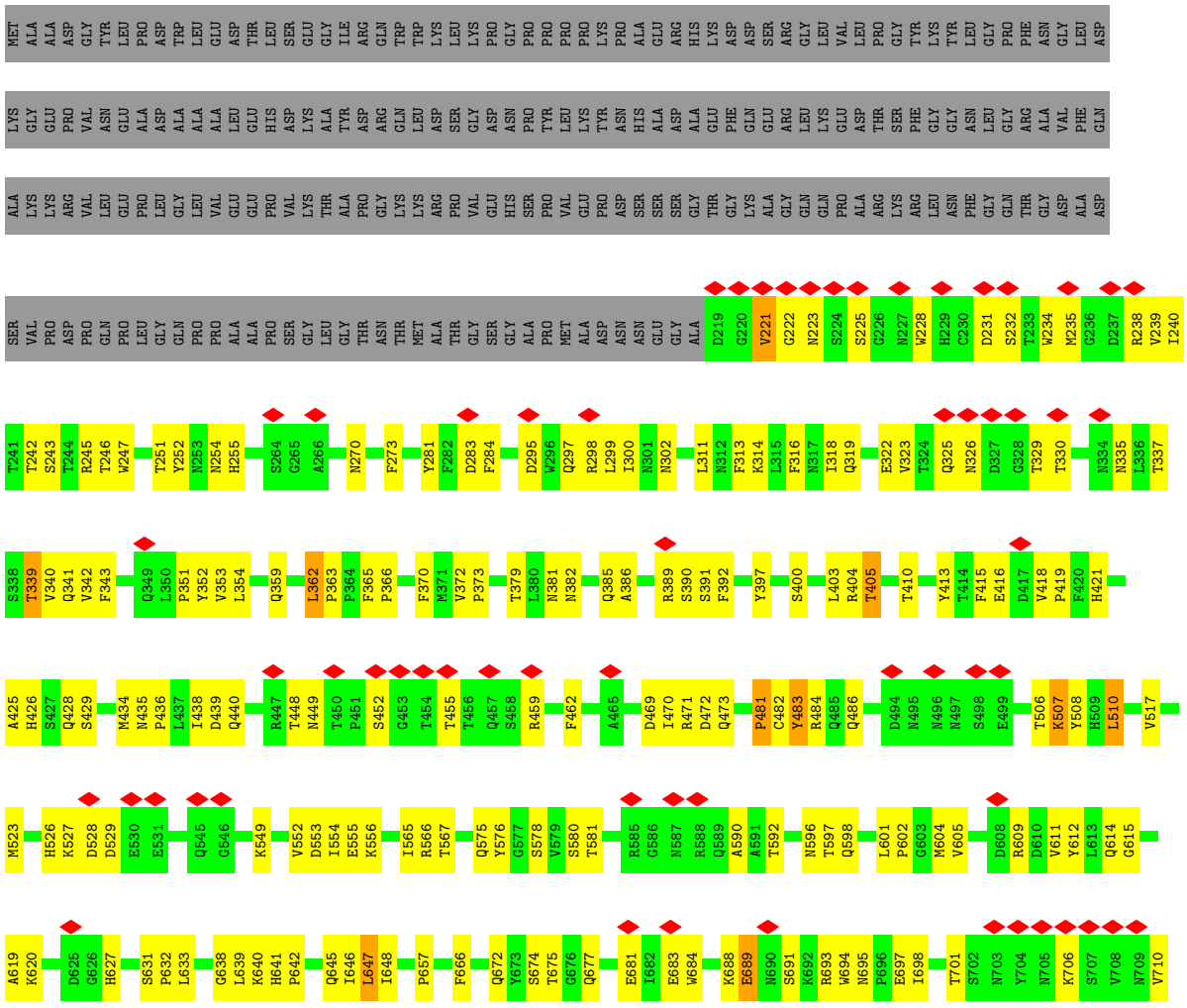
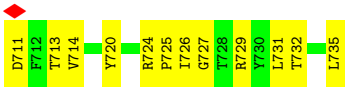
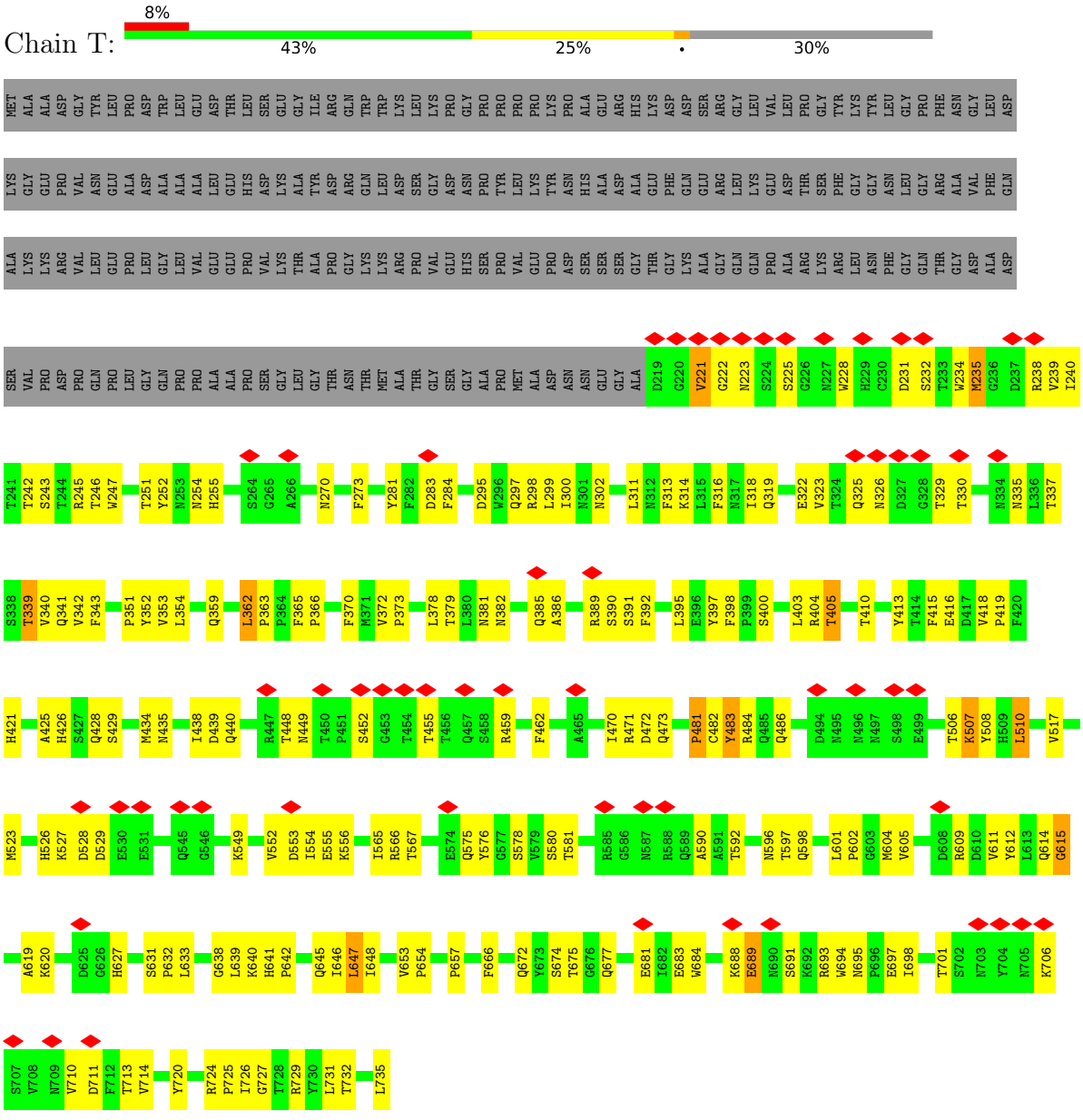
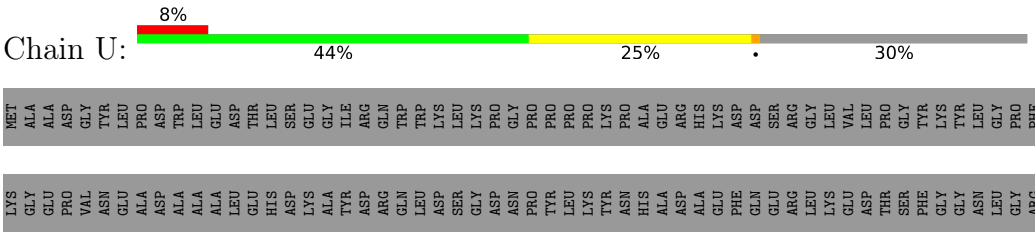


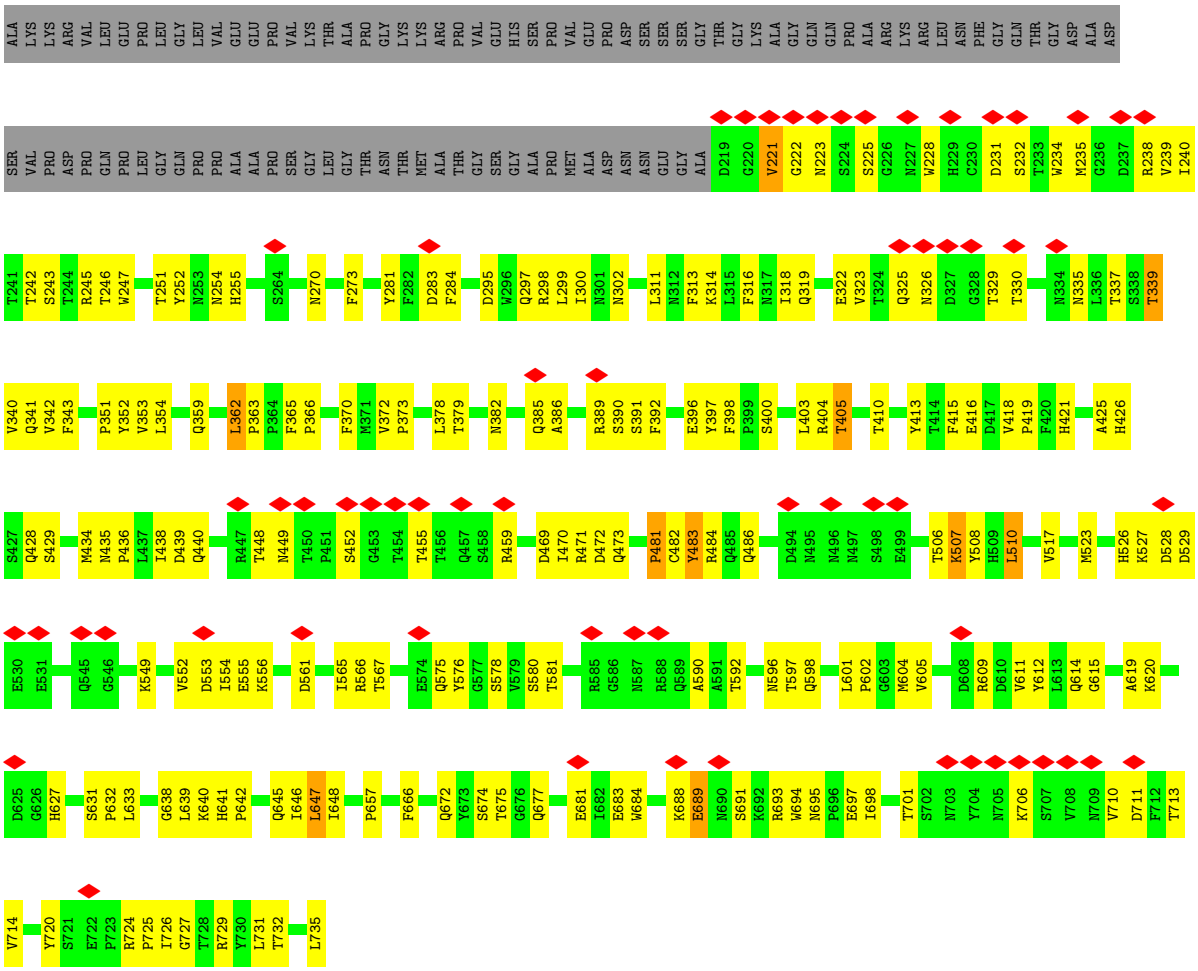


• Molecule 1: Capsid protein VP1



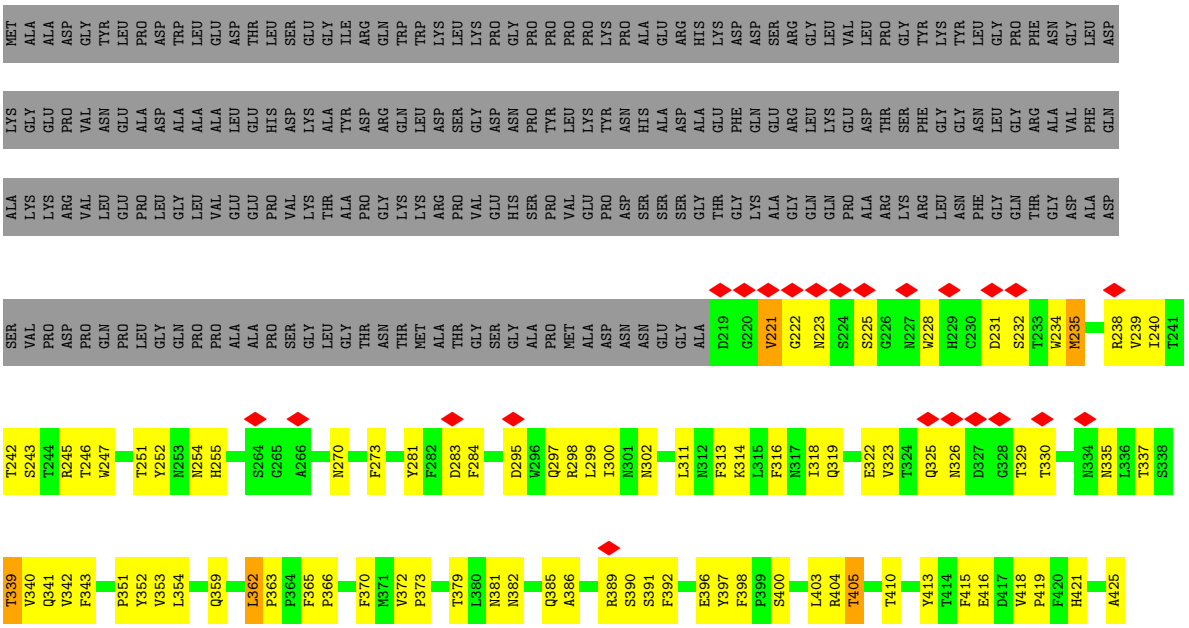
• Molecule 1: Capsid protein VP1

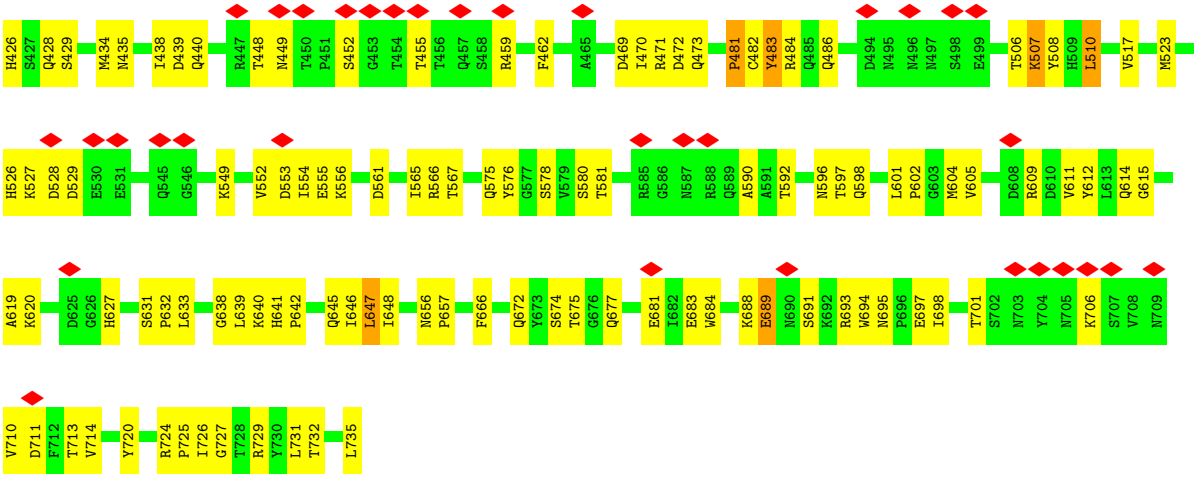




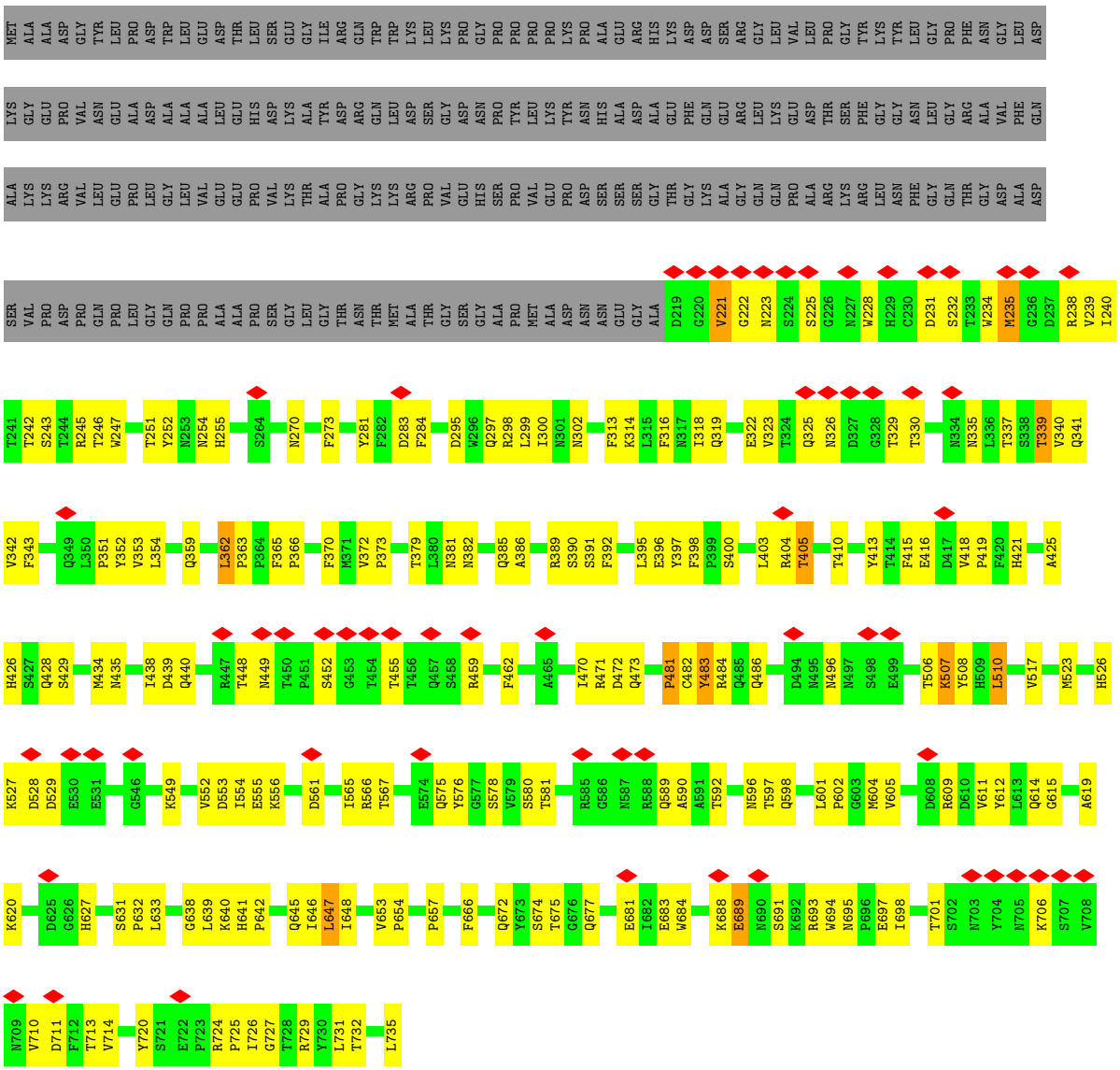
• Molecule 1: Capsid protein VP1

Chain V:





• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

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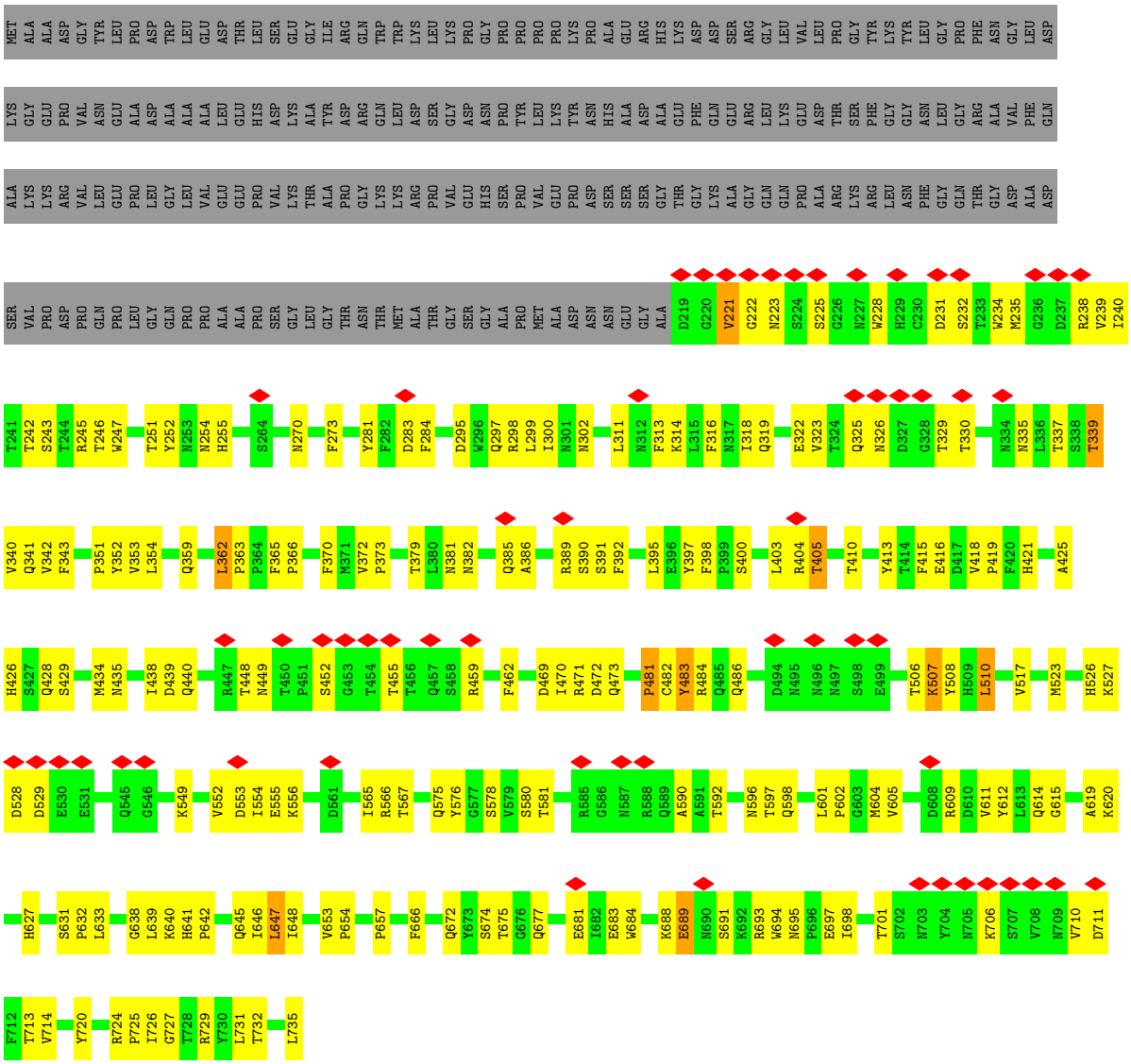

• Molecule 1: Capsid protein VP1

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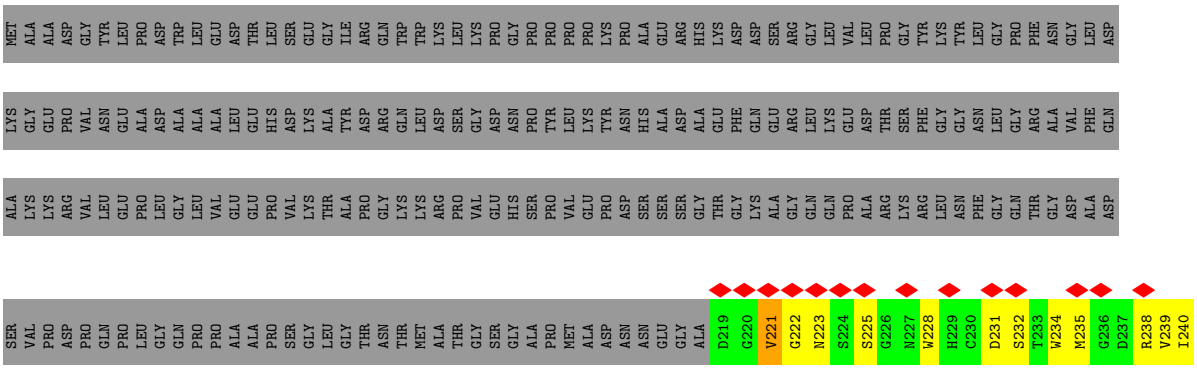
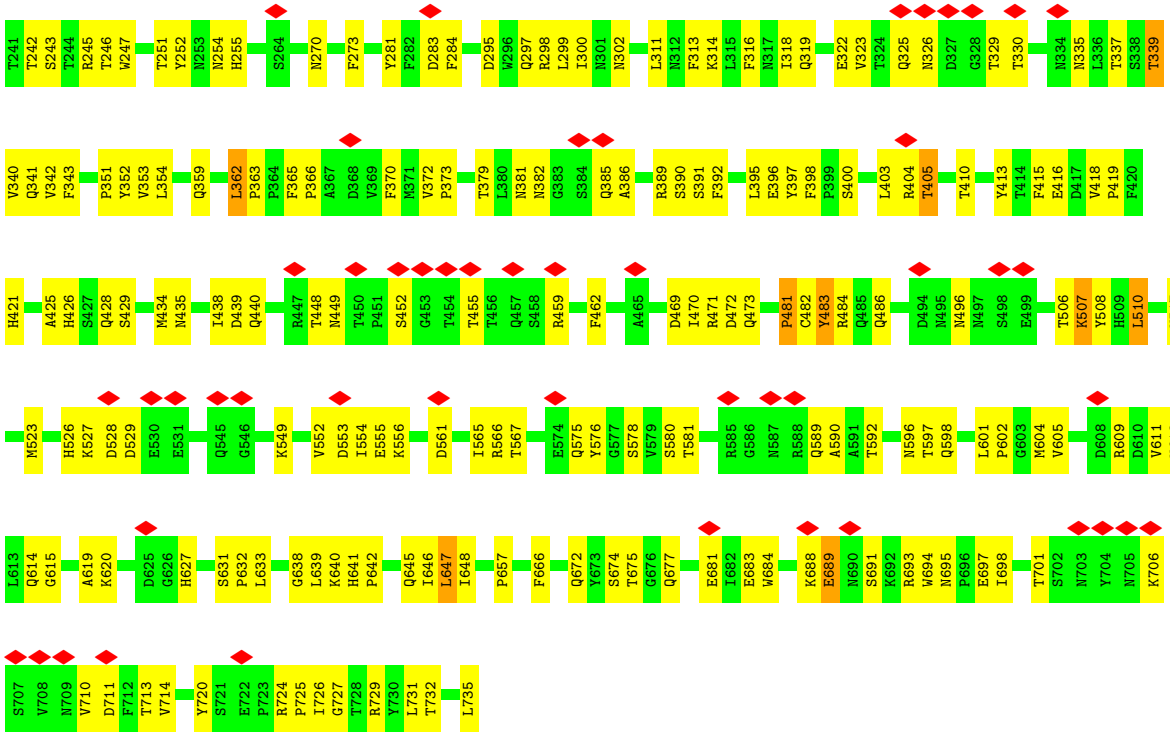
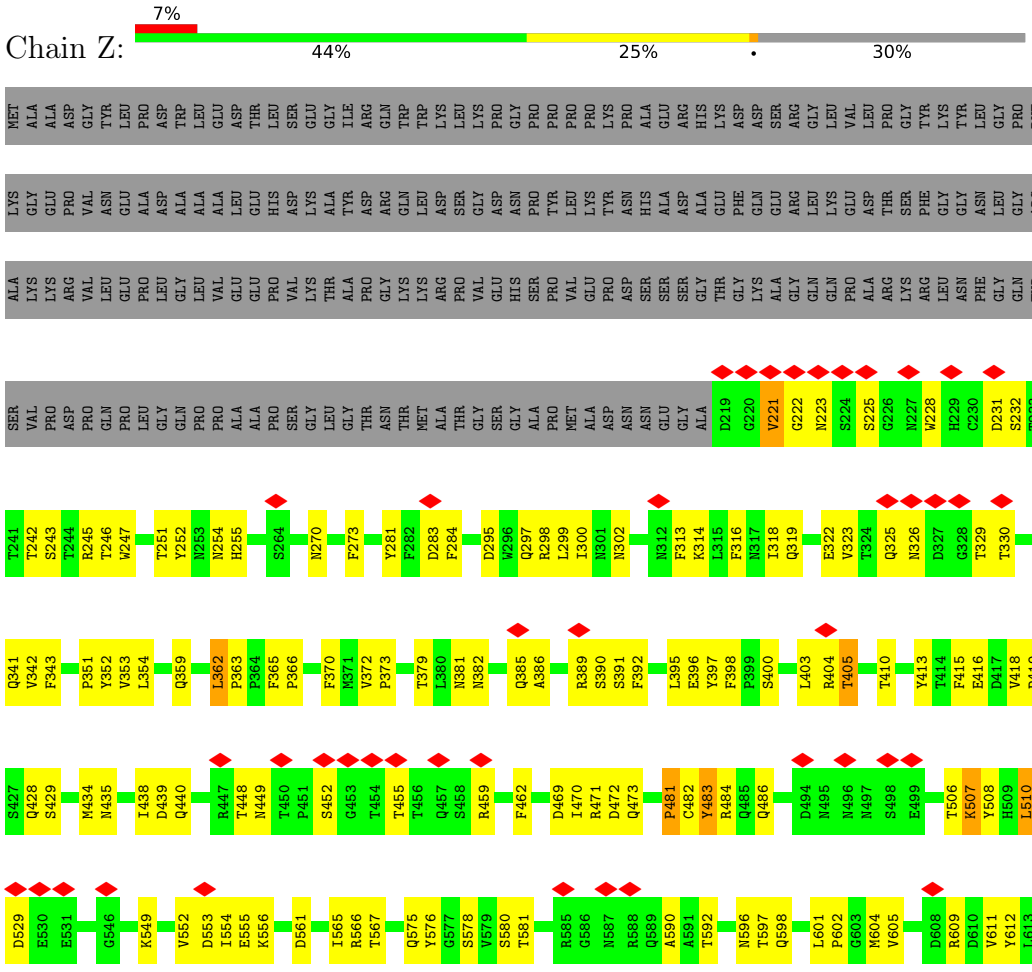
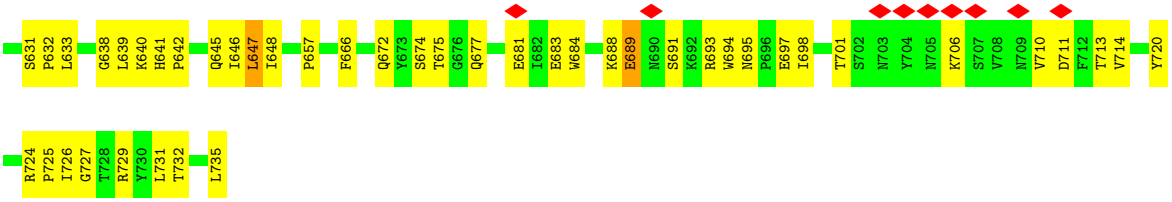


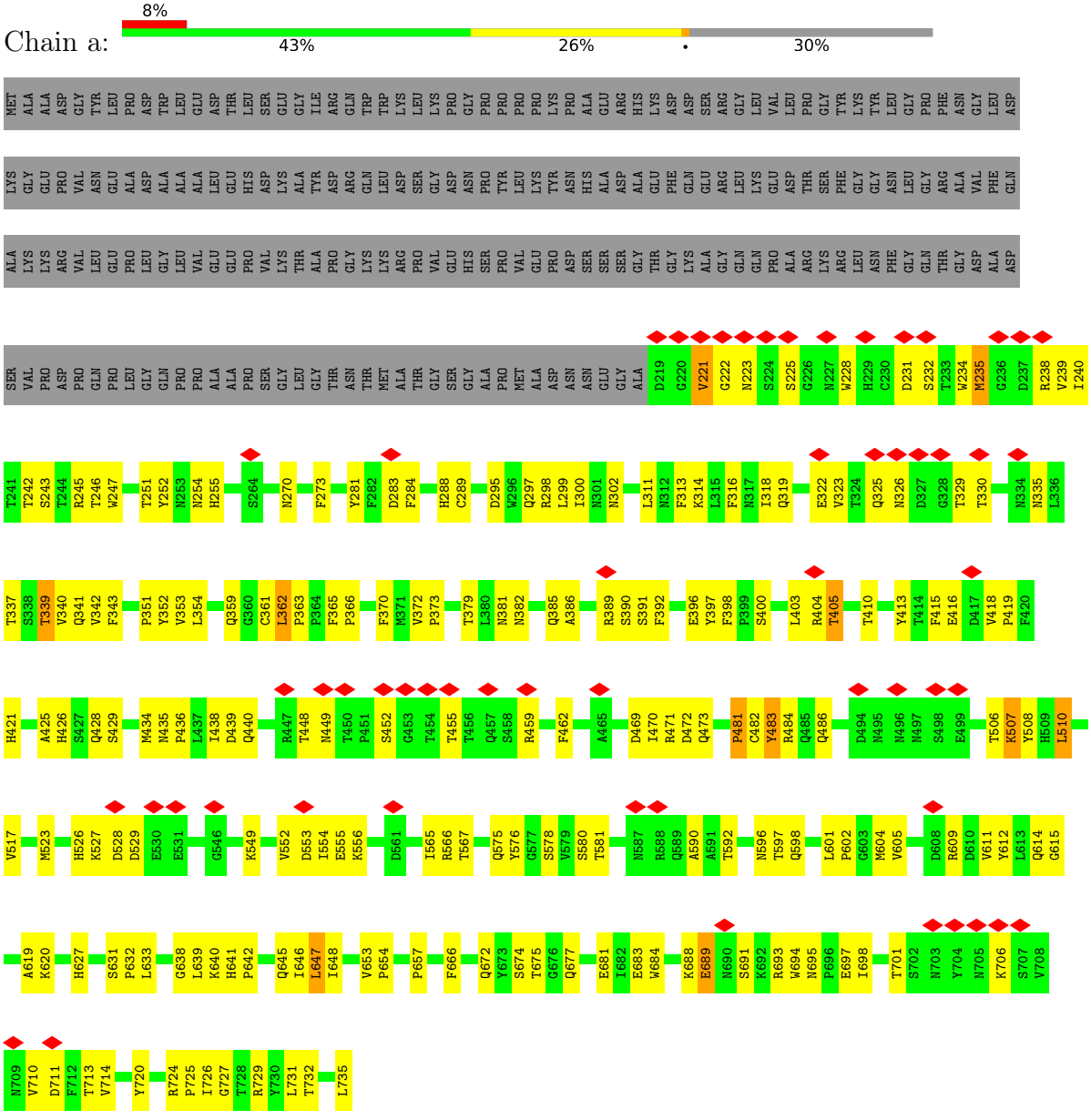


• Molecule 1: Capsid protein VP1

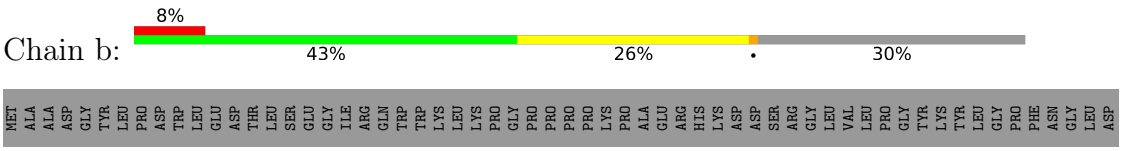


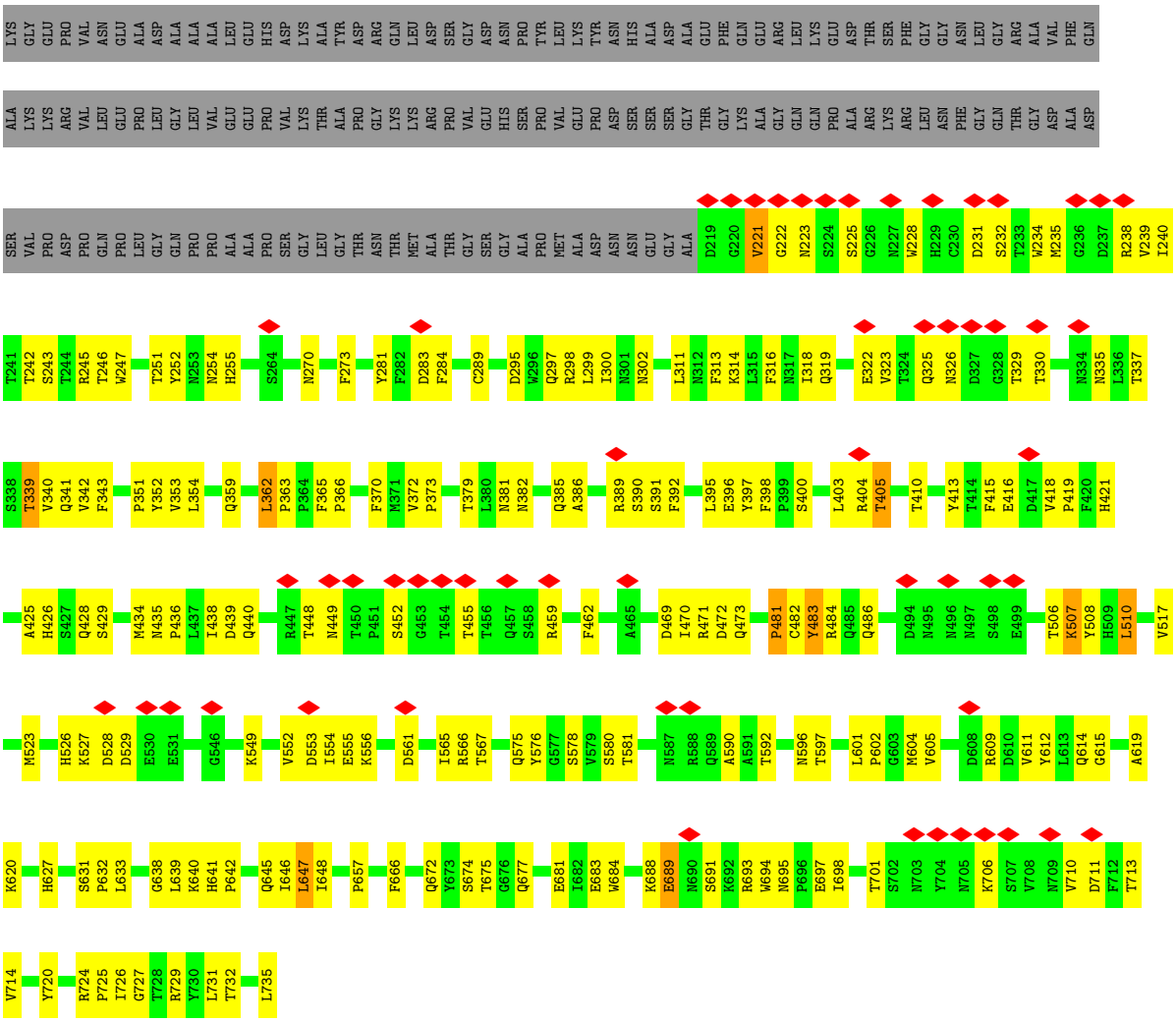


• Molecule 1: Capsid protein VP1



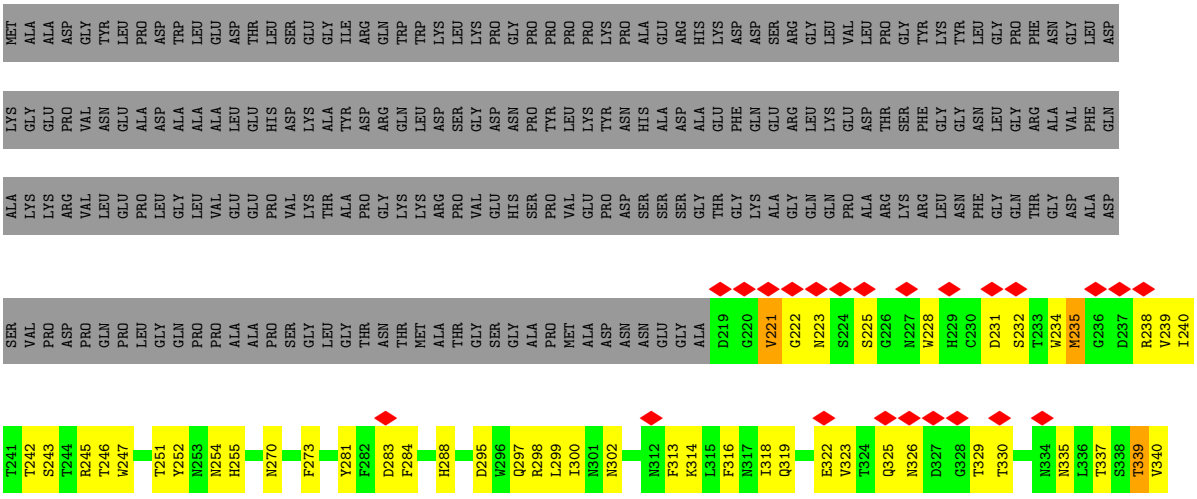
• Molecule 1: Capsid protein VP1

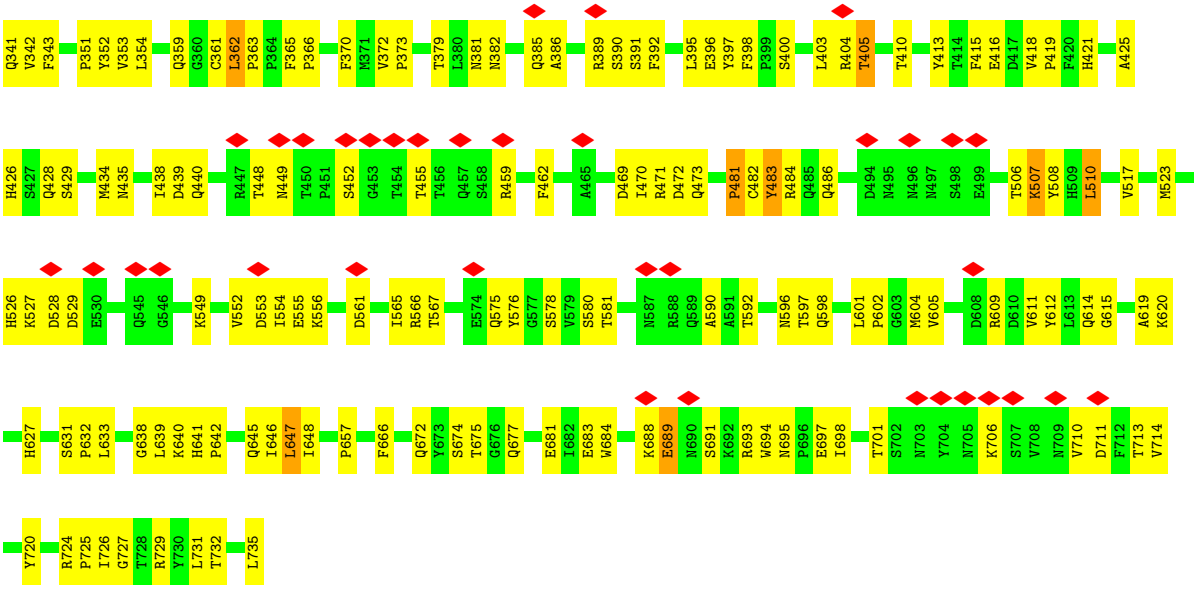




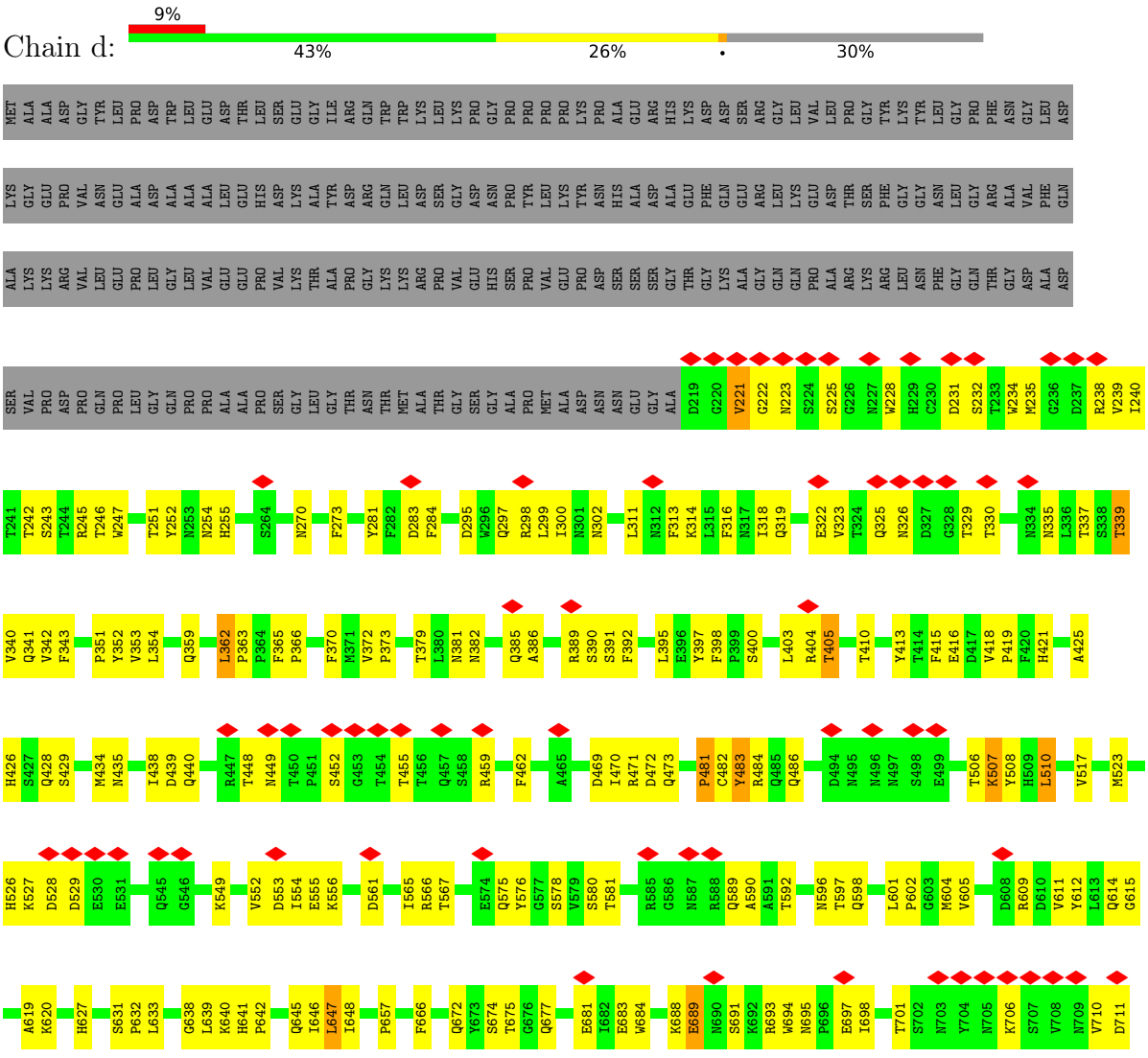
• Molecule 1: Capsid protein VP1

Chain c:

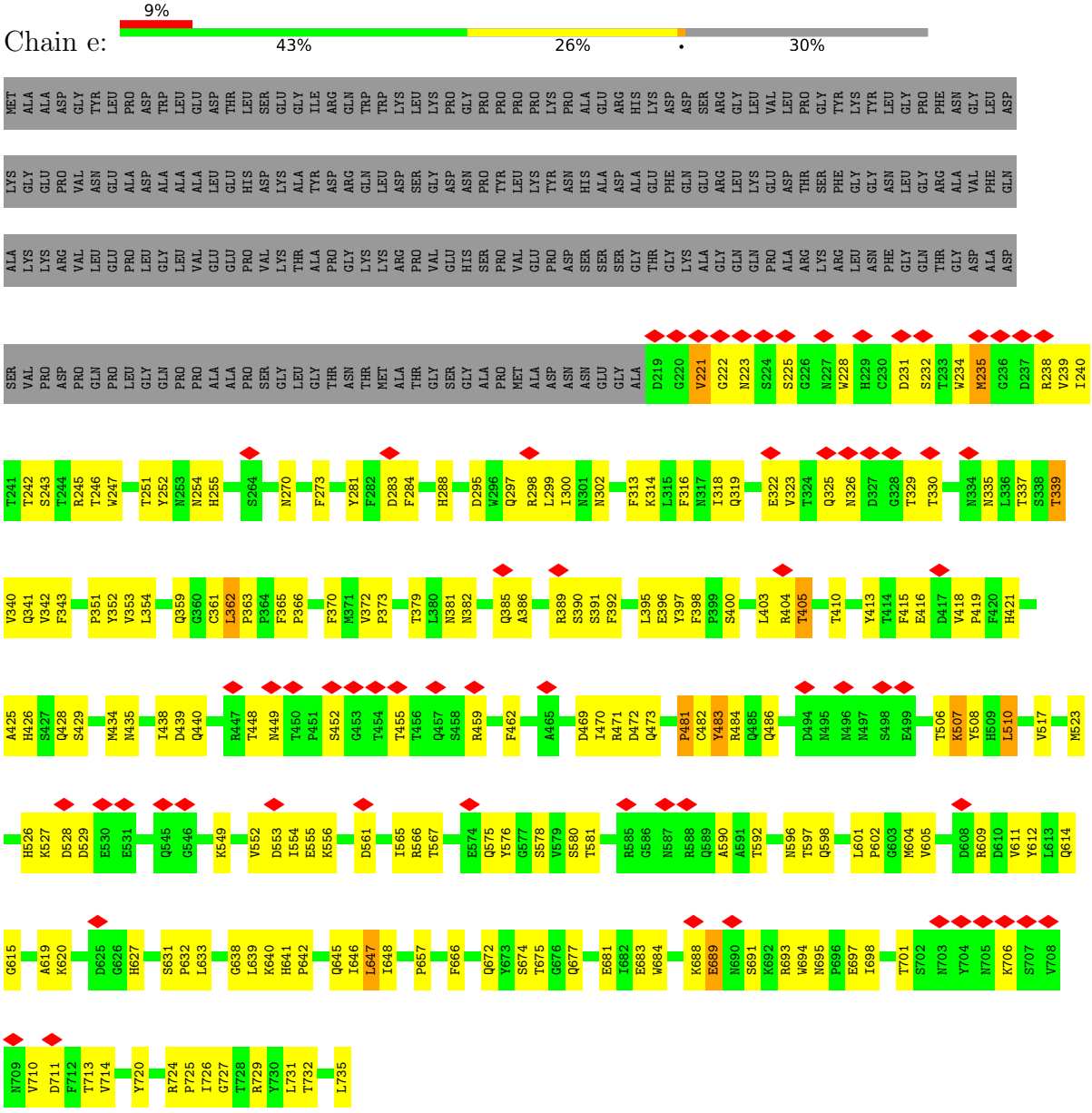




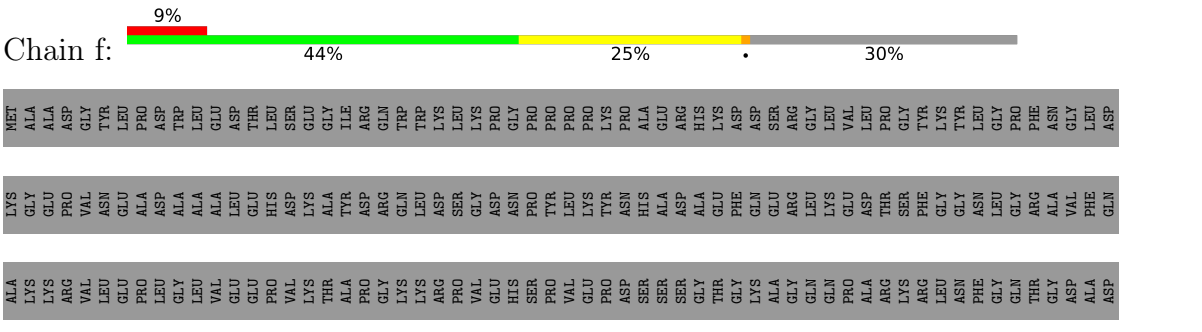
• Molecule 1: Capsid protein VP1

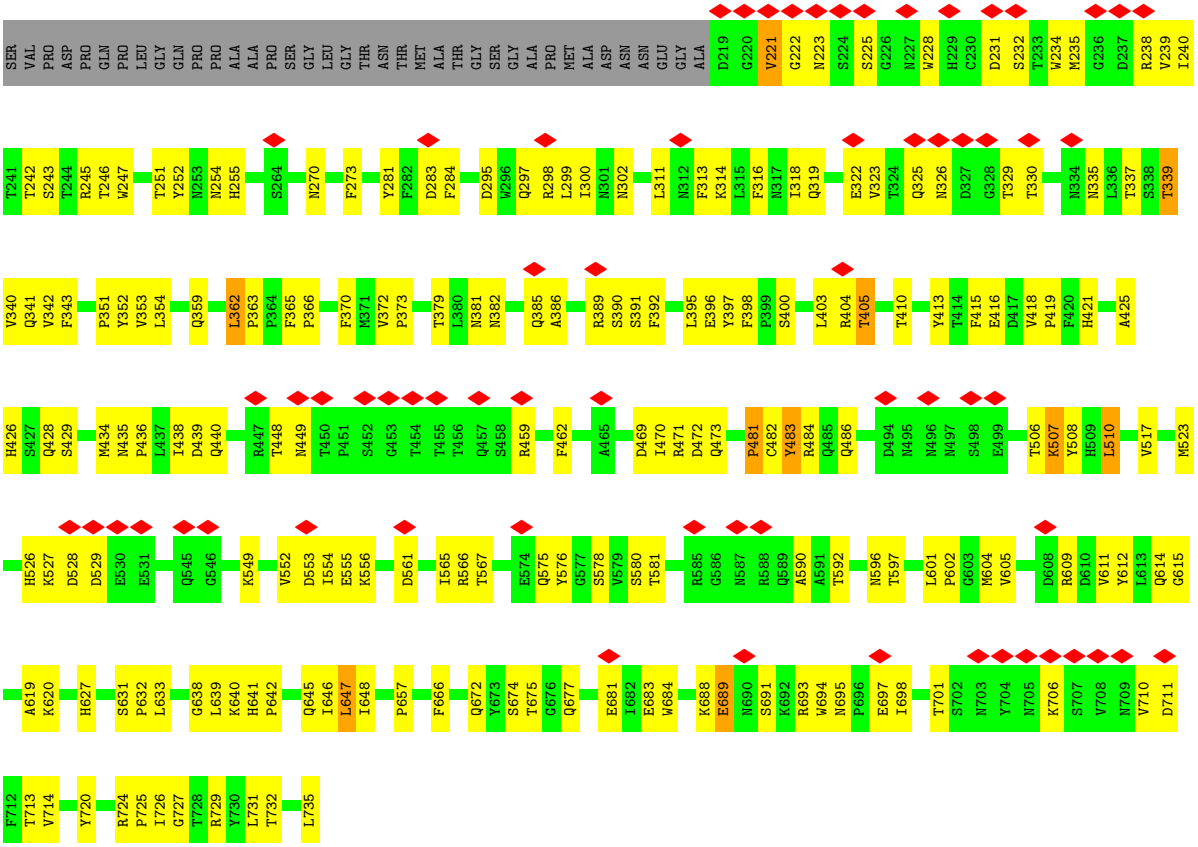


• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1

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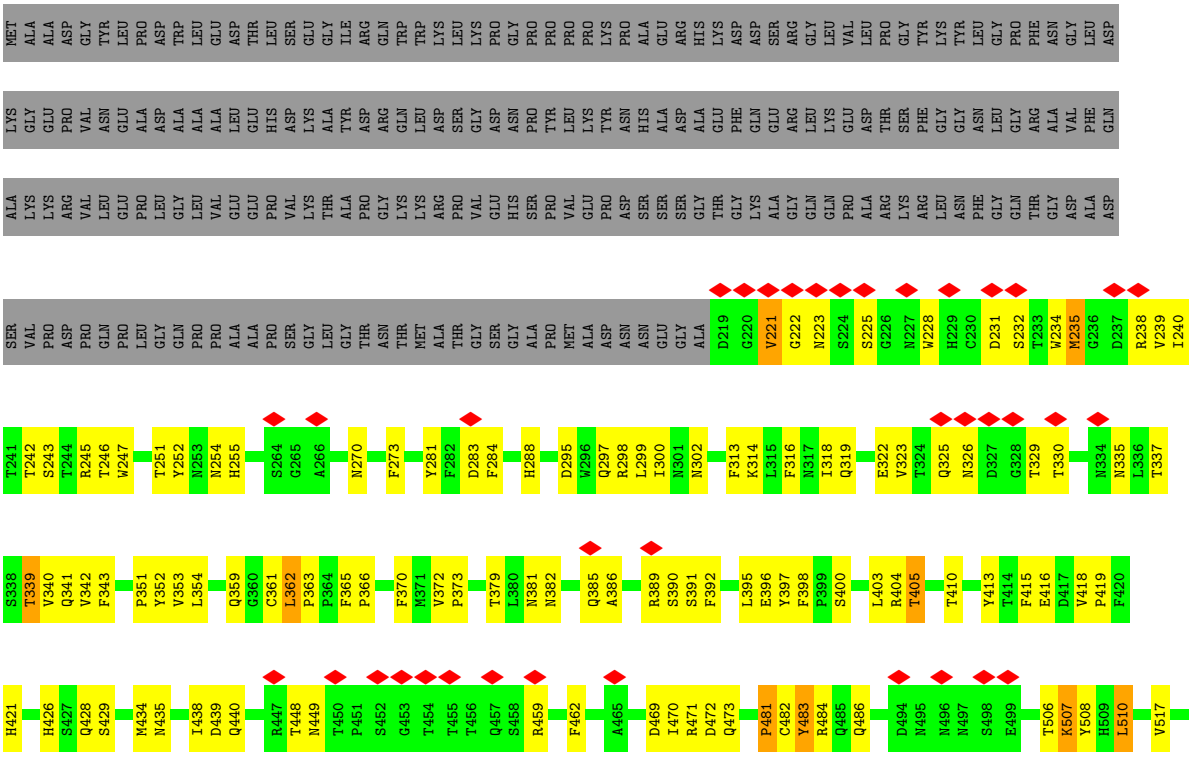
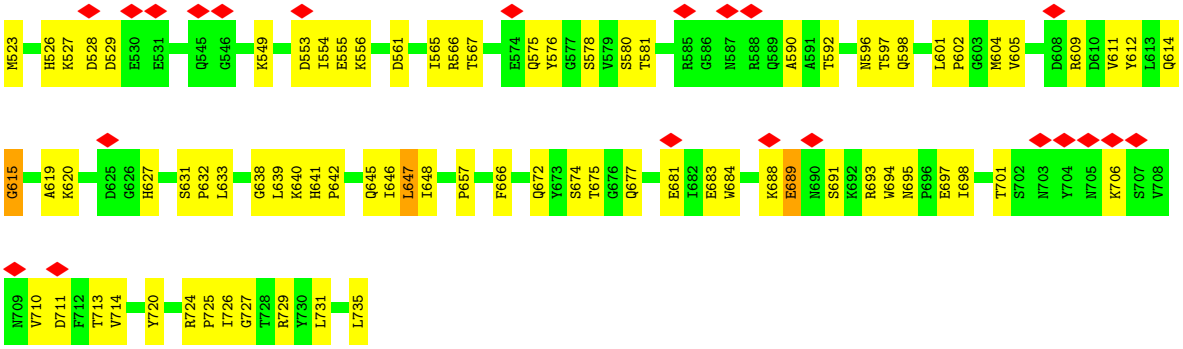
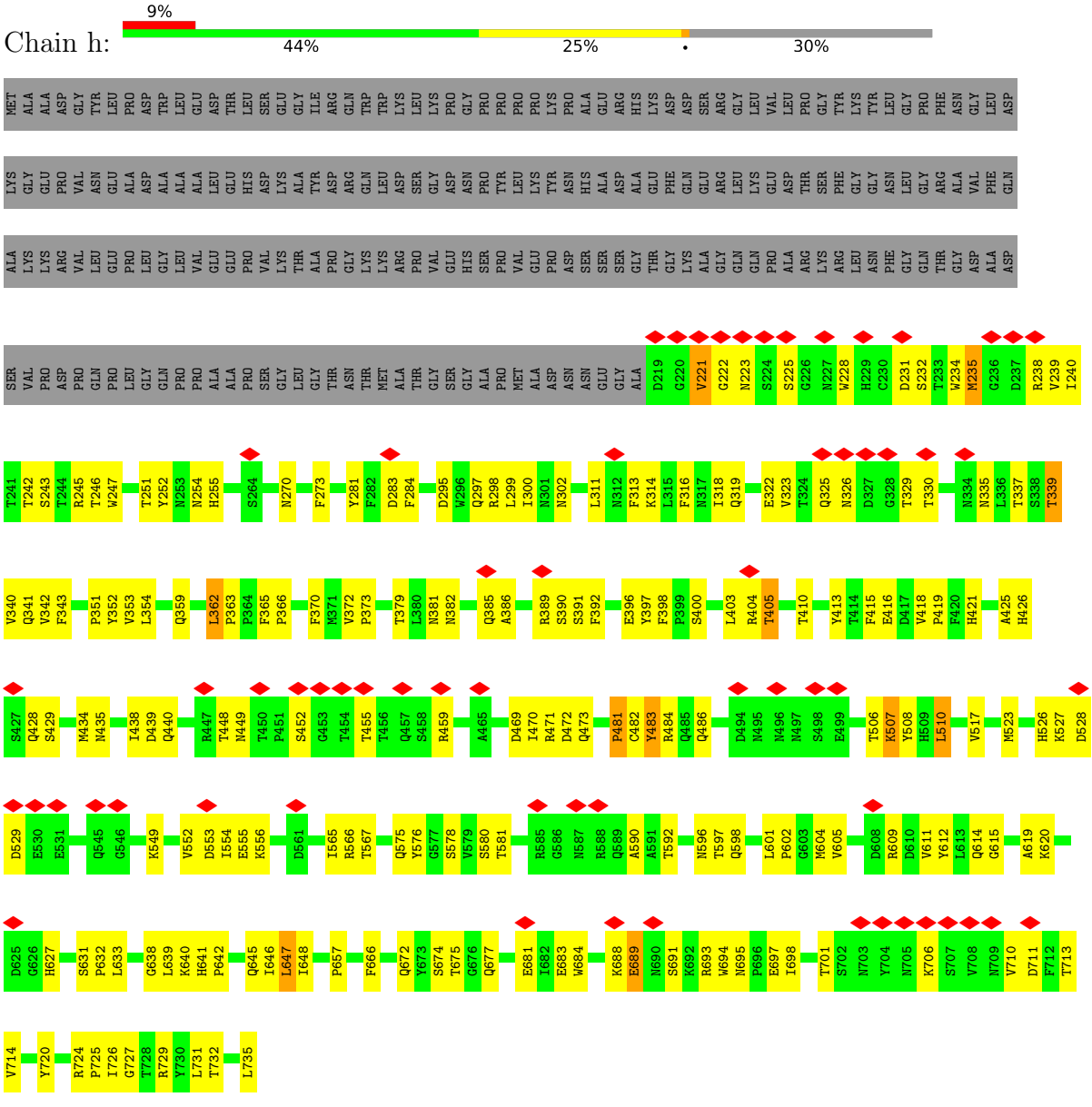
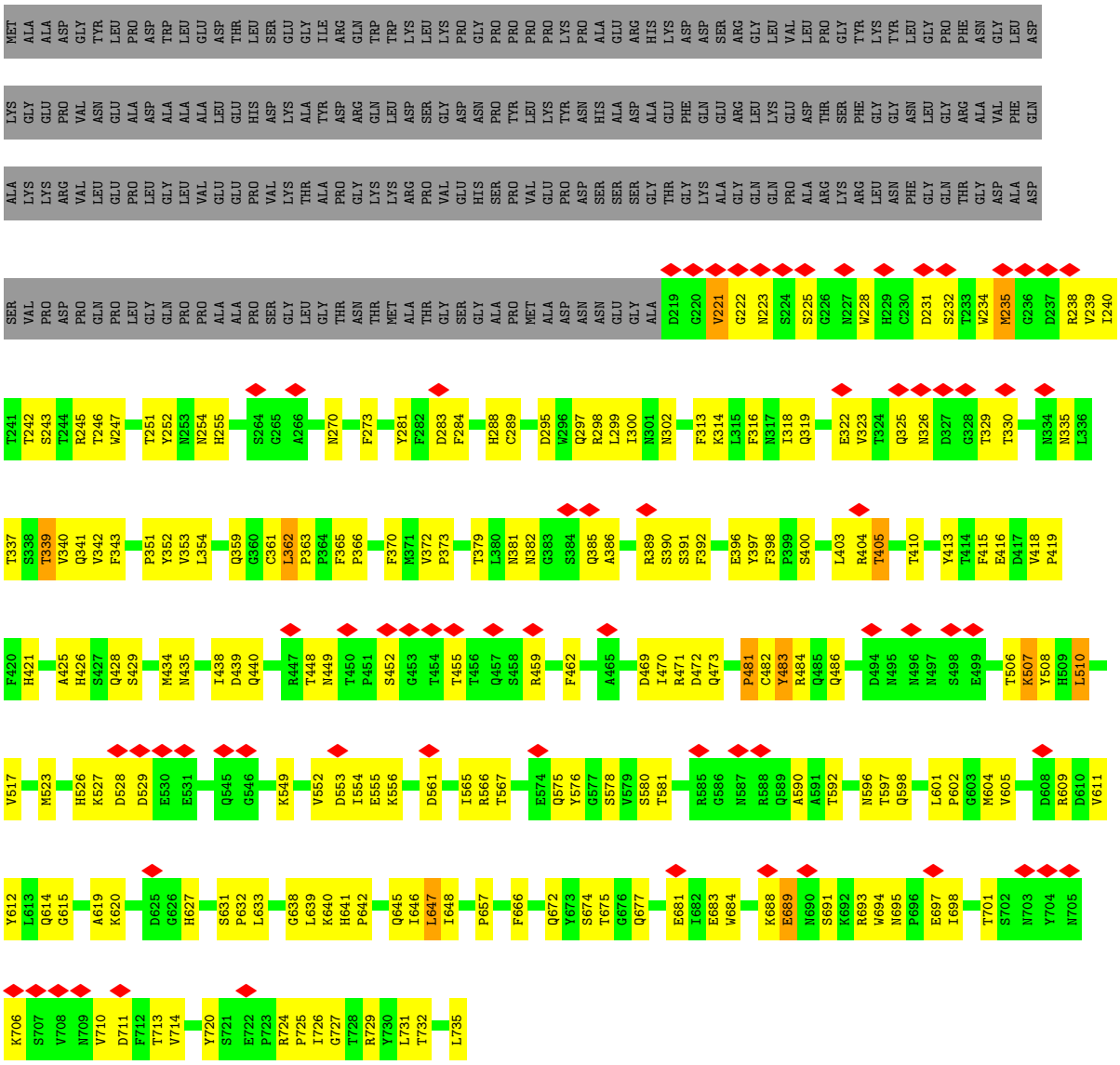




• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

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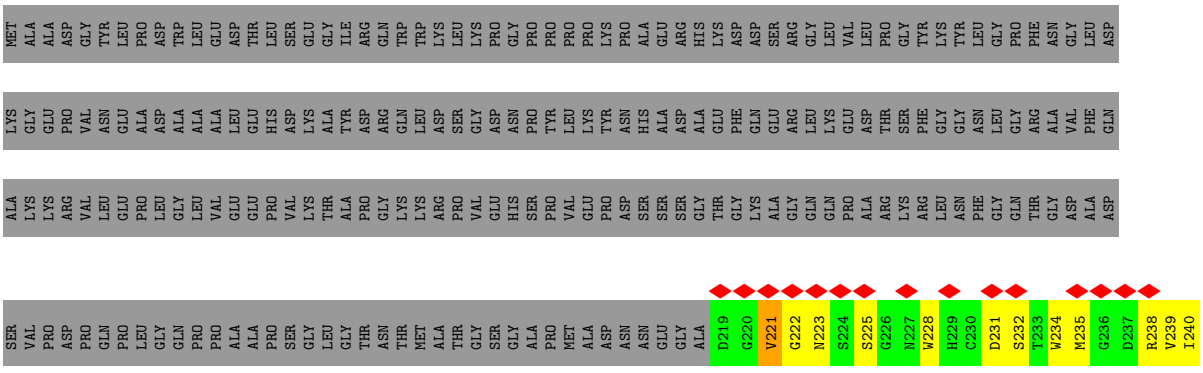

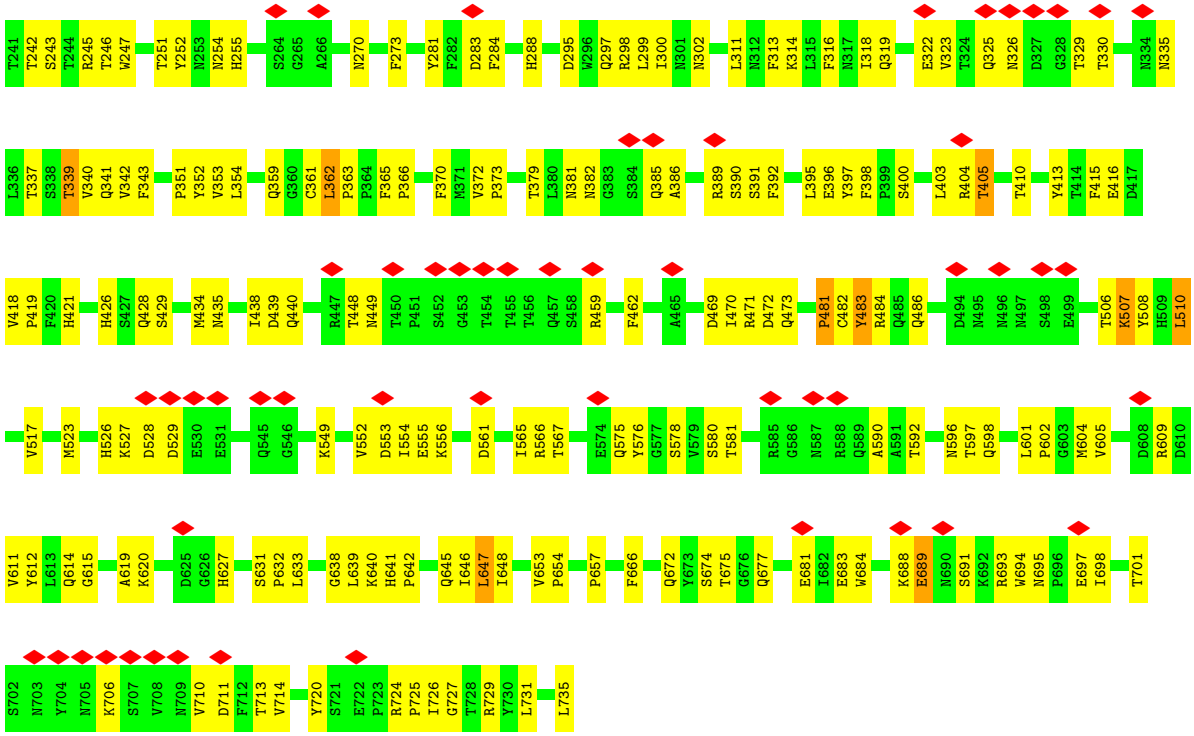

• Molecule 1: Capsid protein VP1

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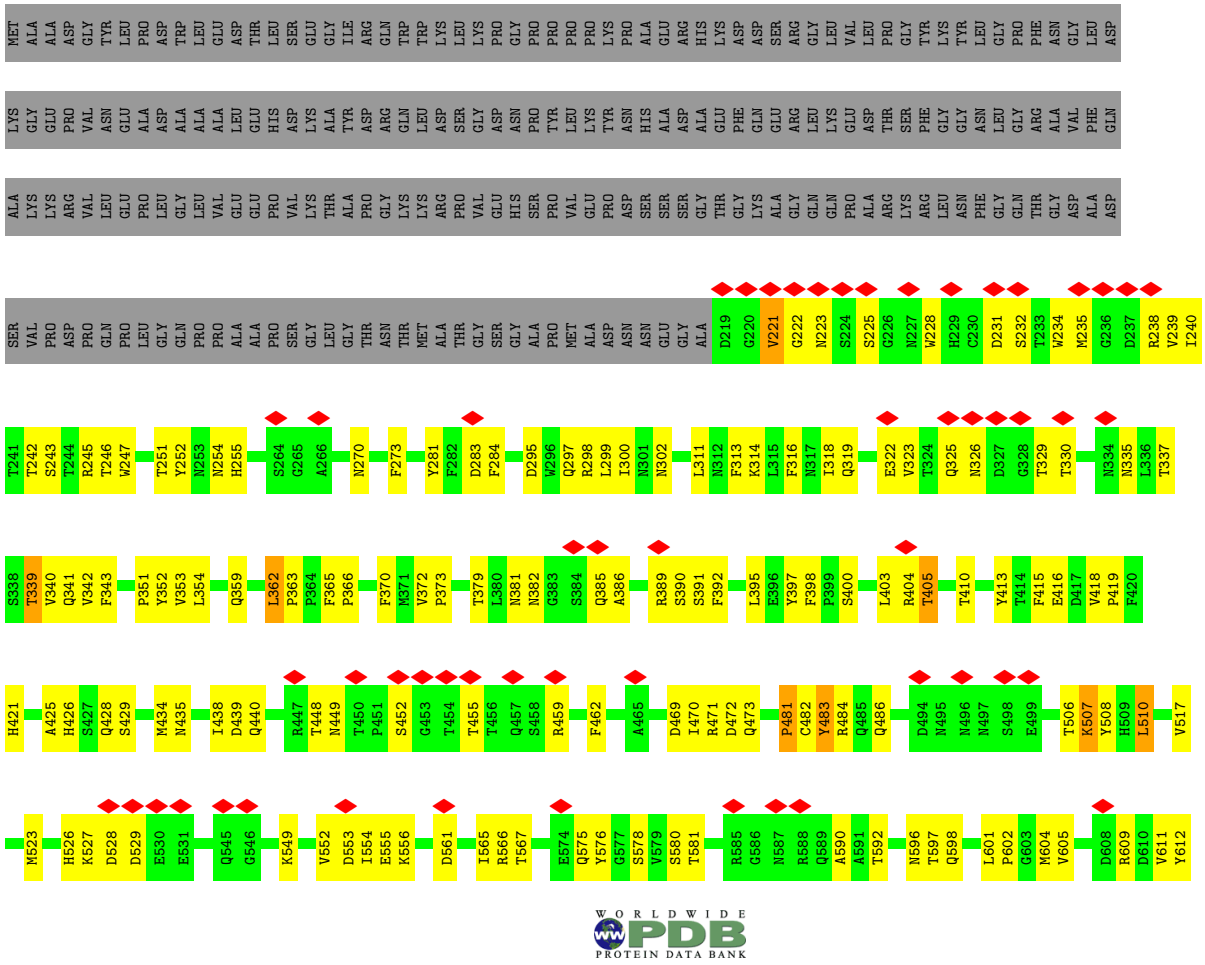
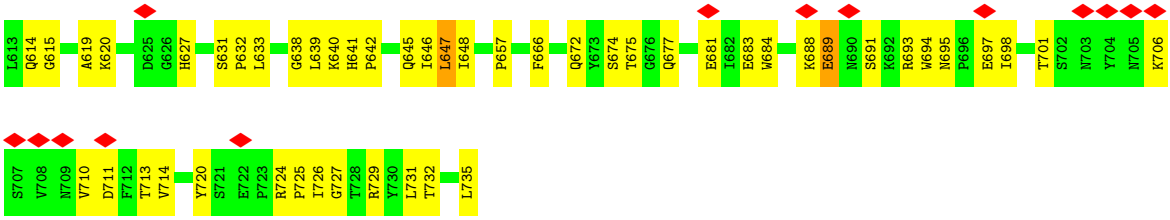
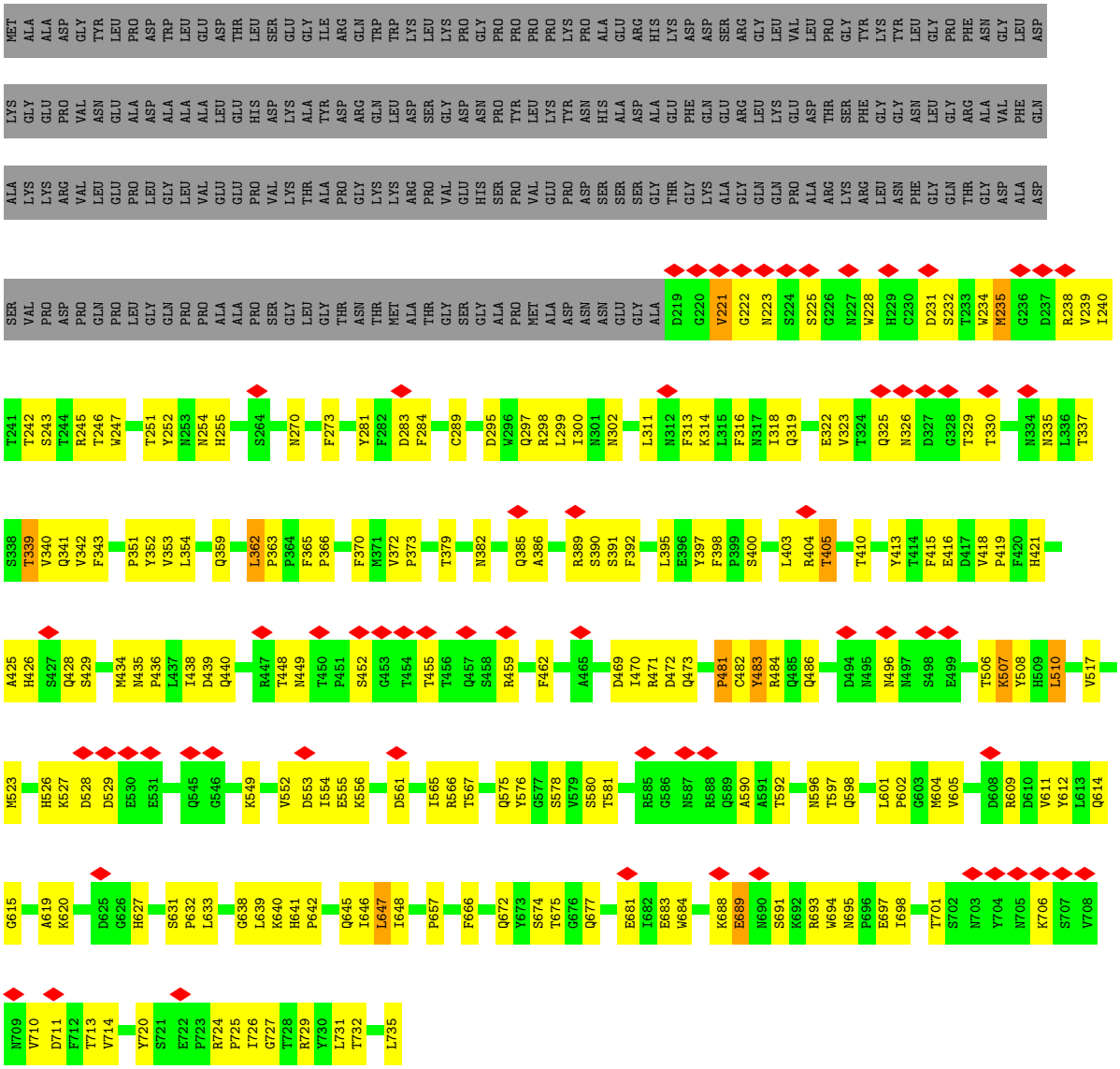
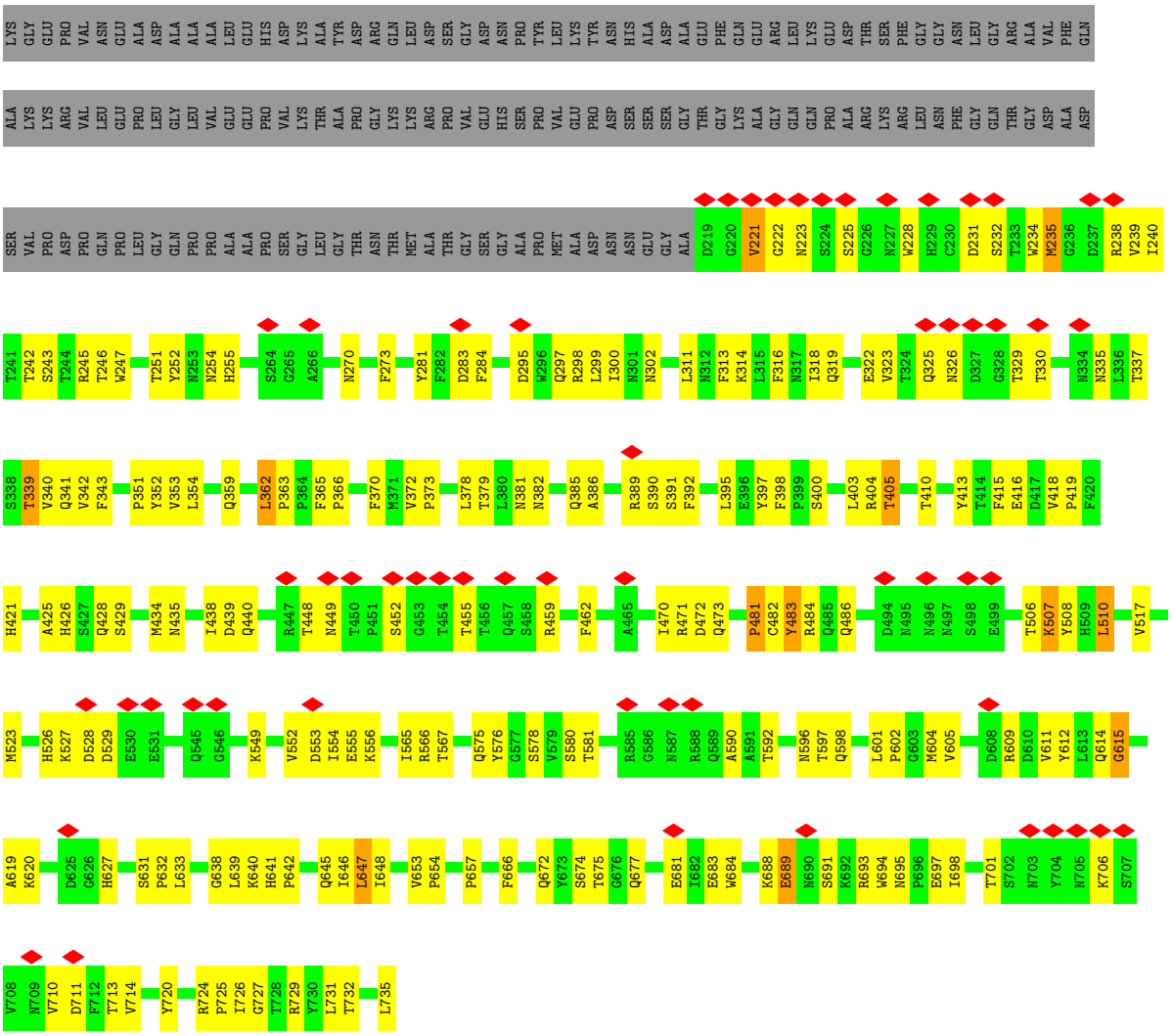




• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

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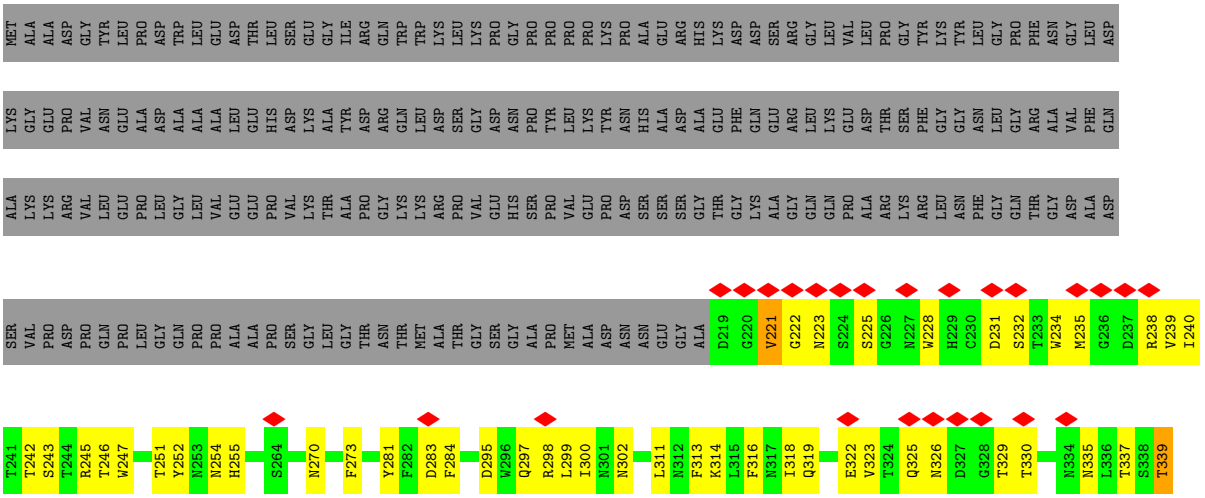

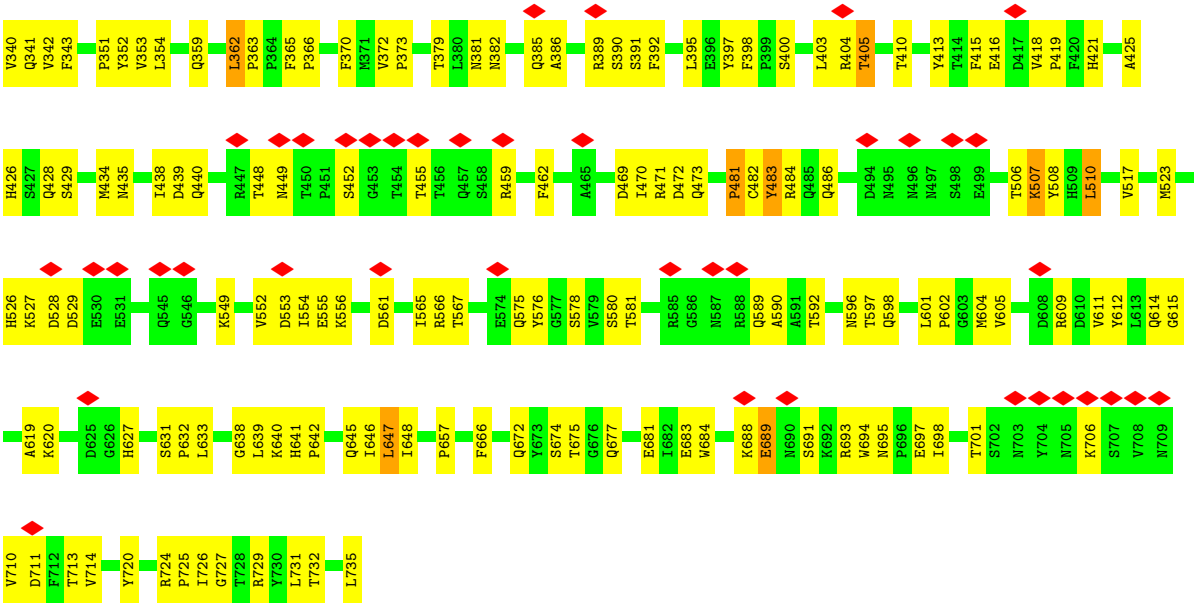

• Molecule 1: Capsid protein VP1

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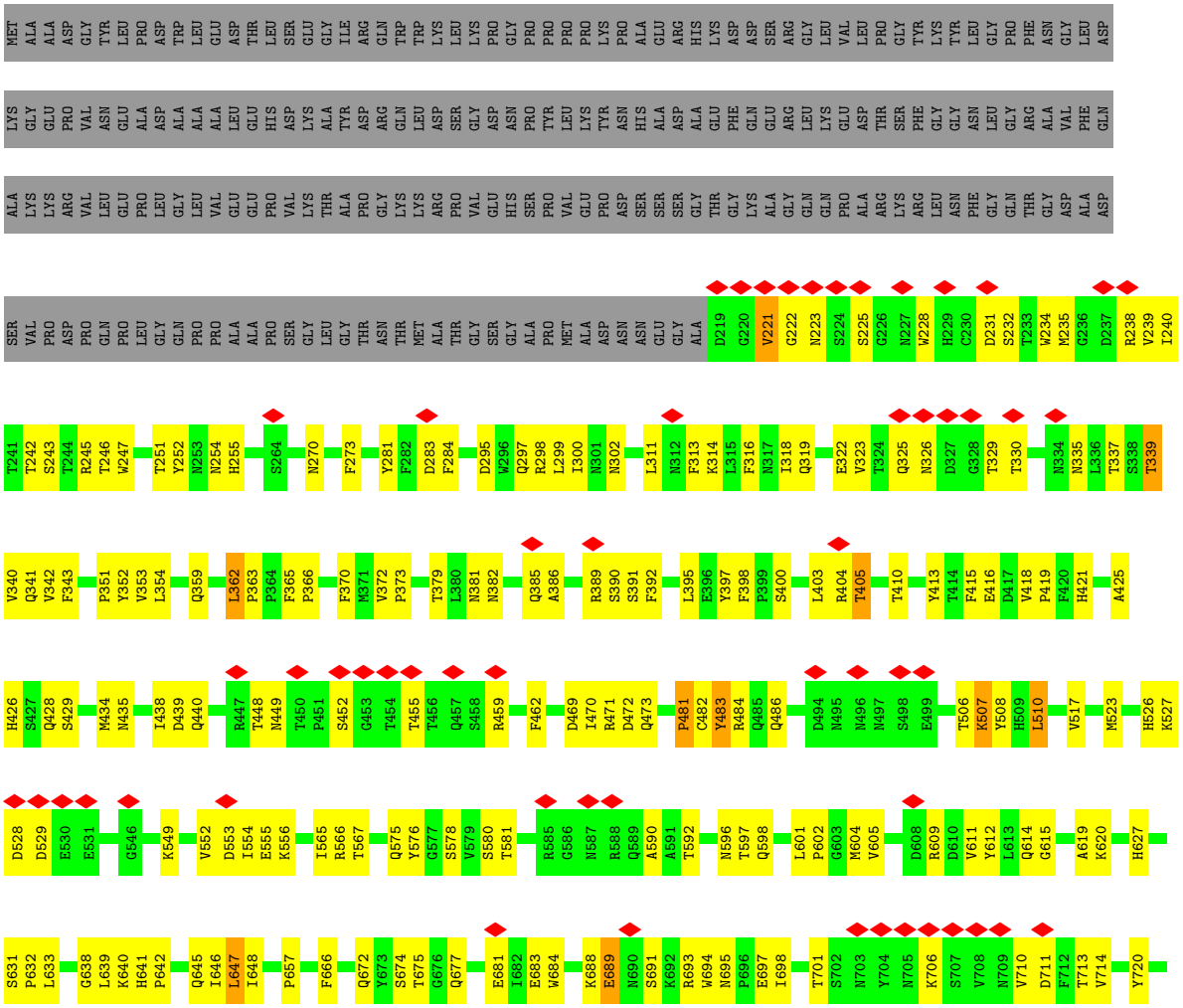
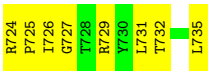
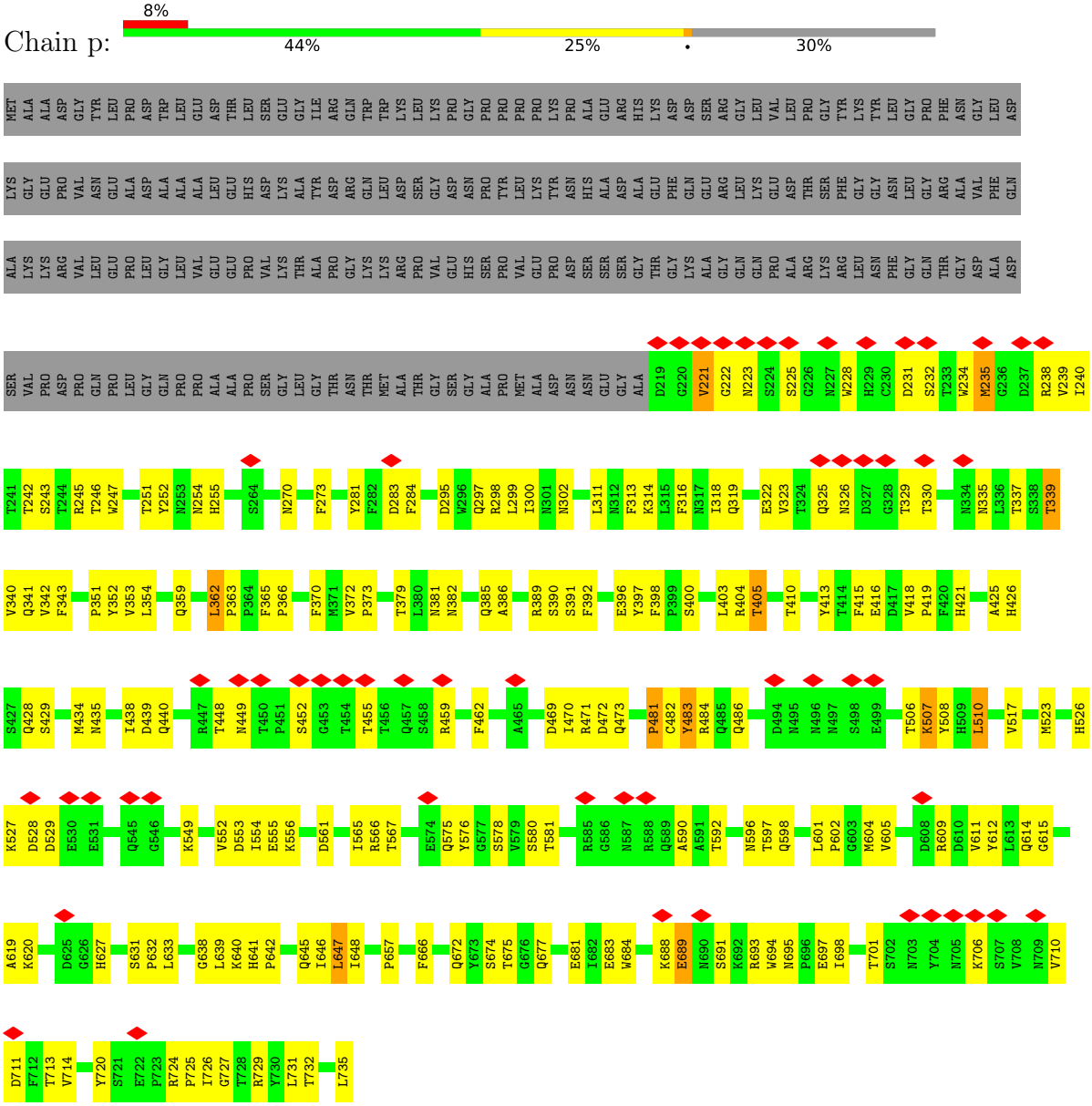
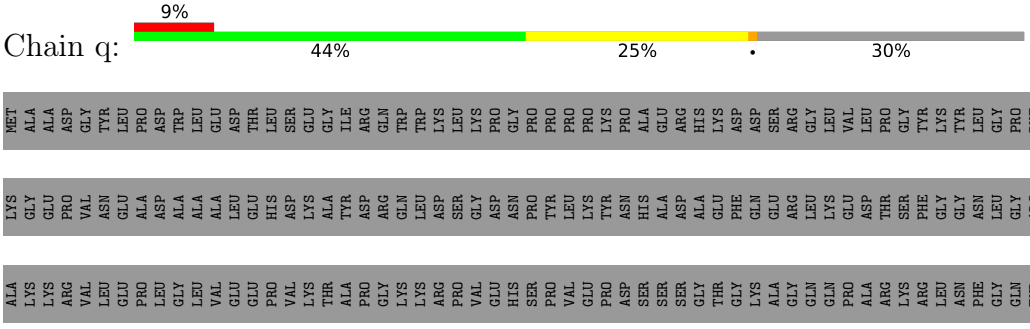


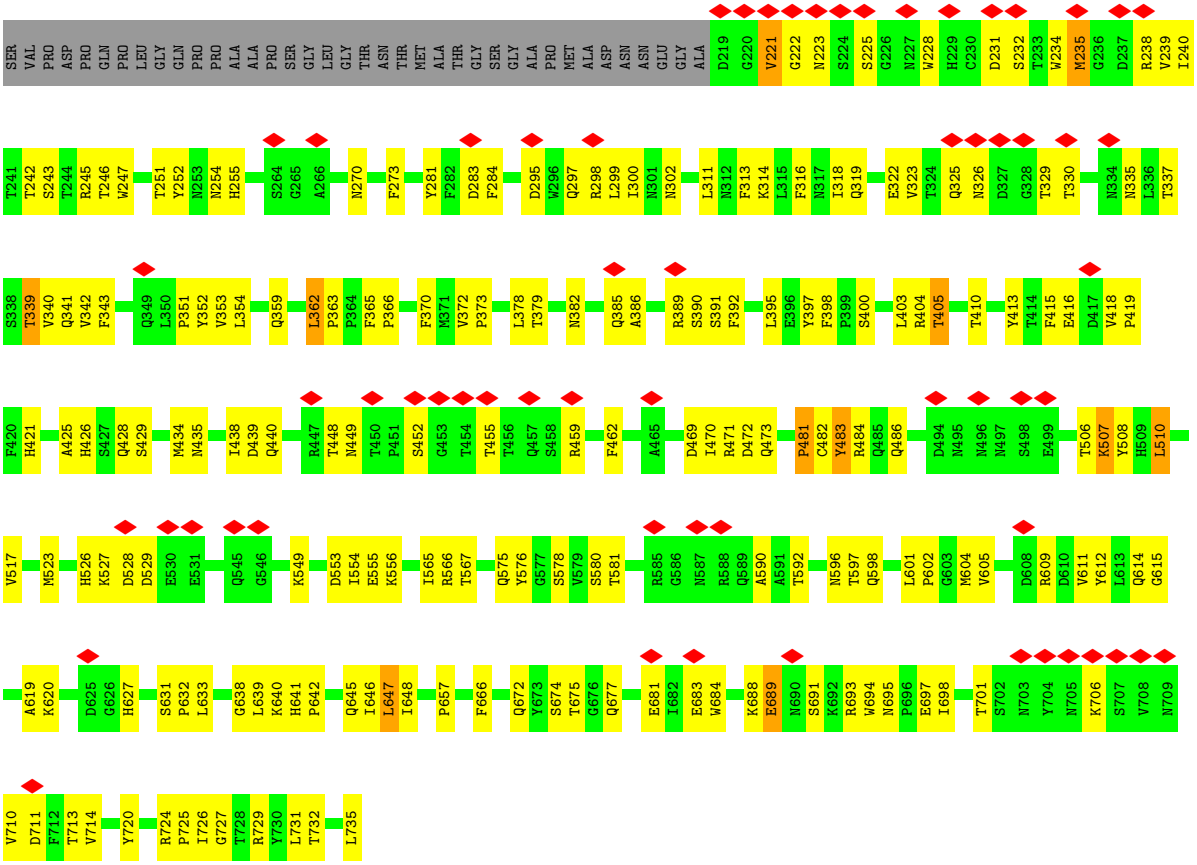


• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1

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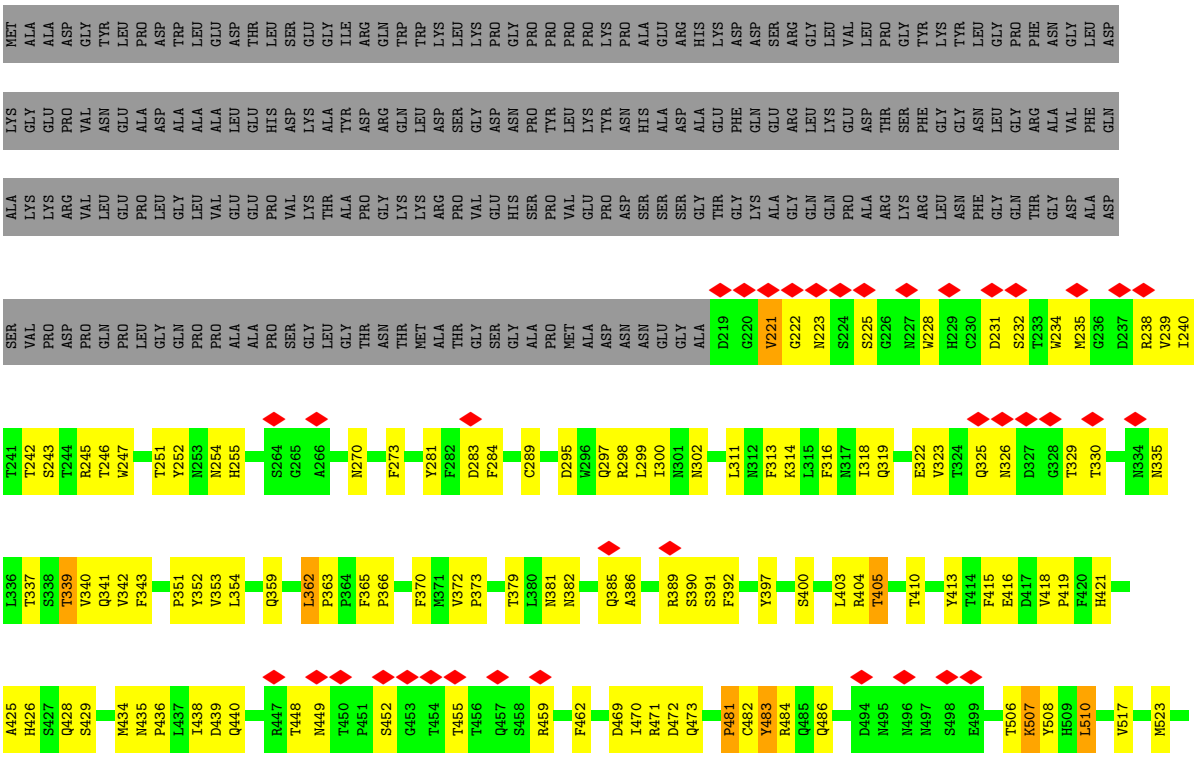
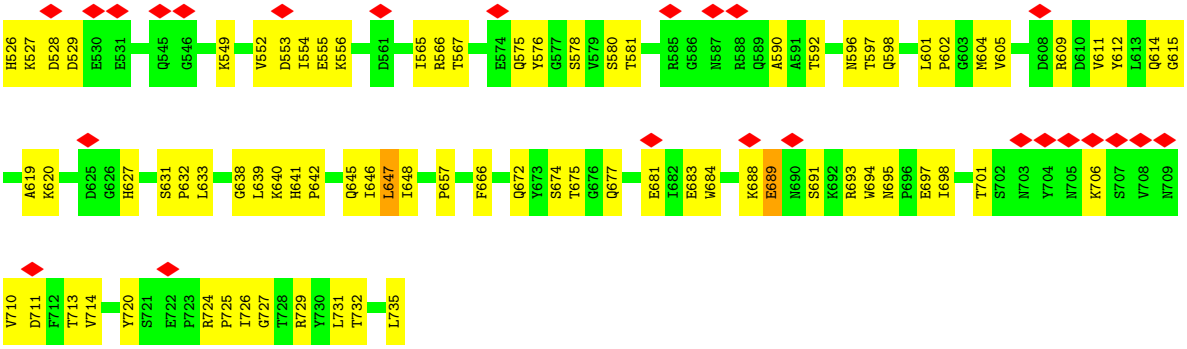
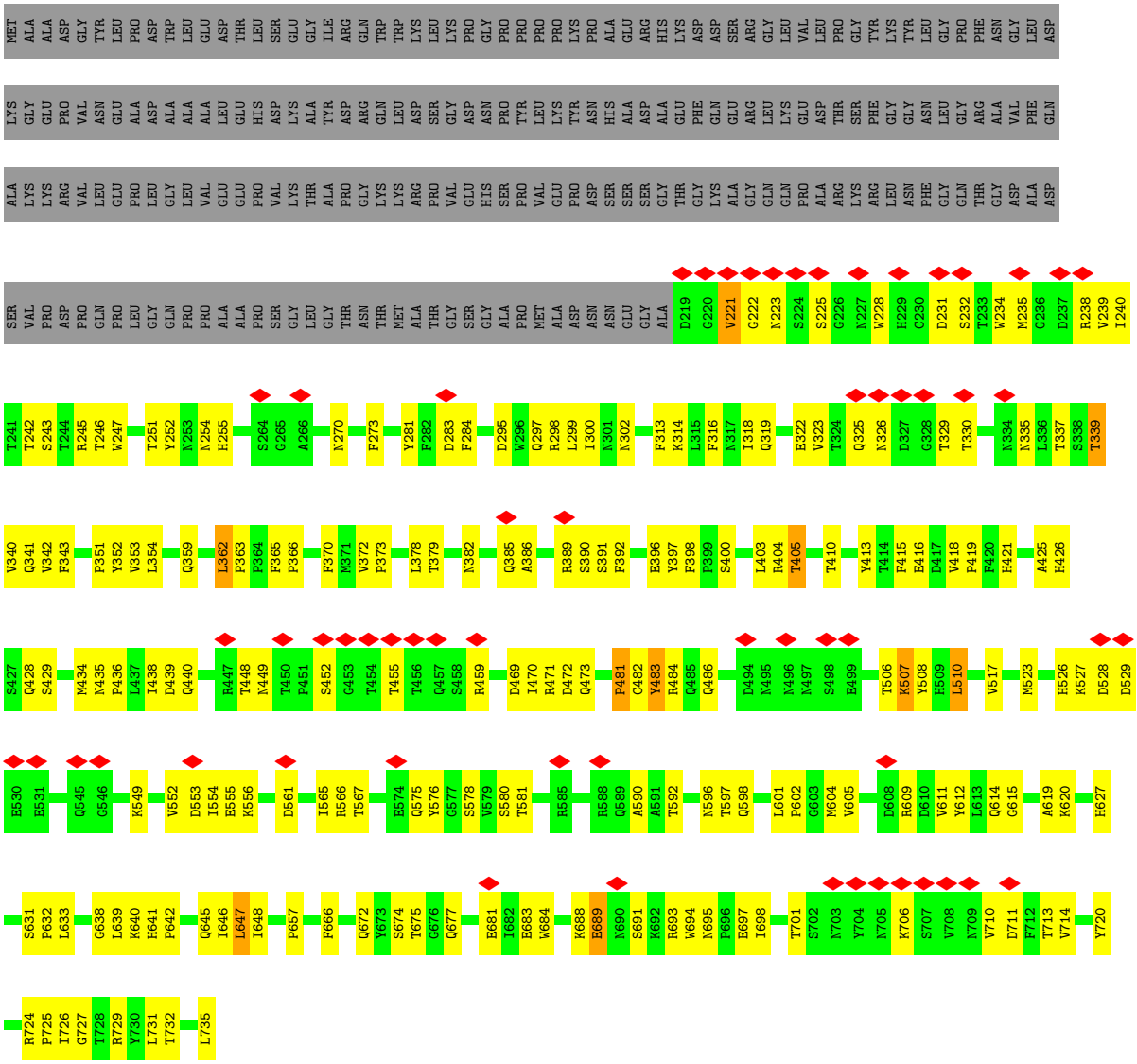




• Molecule 1: Capsid protein VP1

Chain s:



• Molecule 1: Capsid protein VP1

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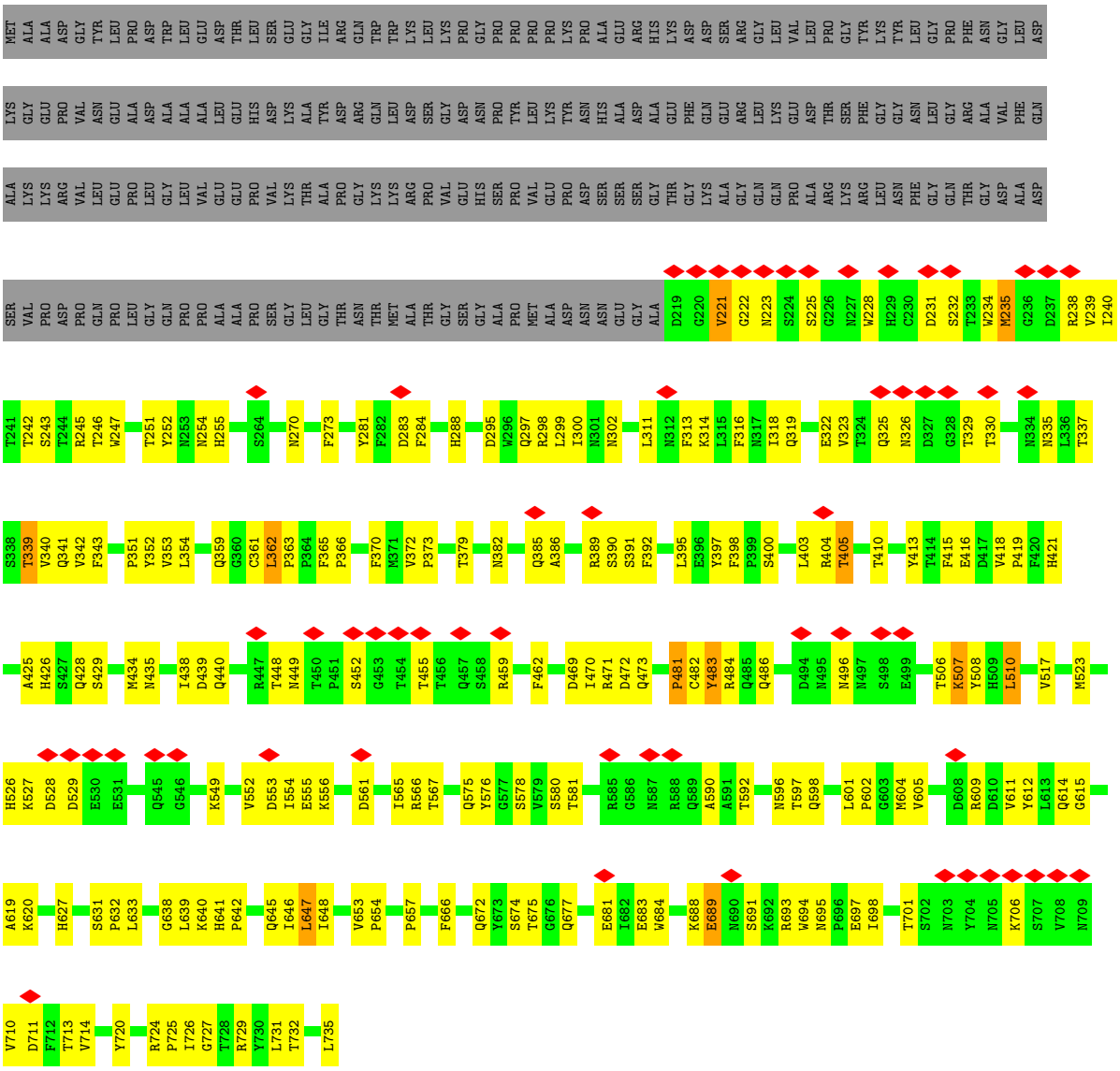
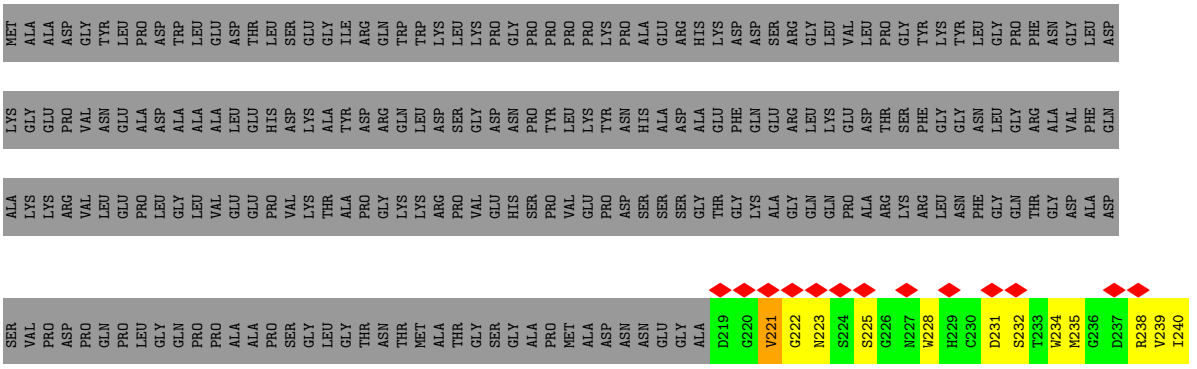
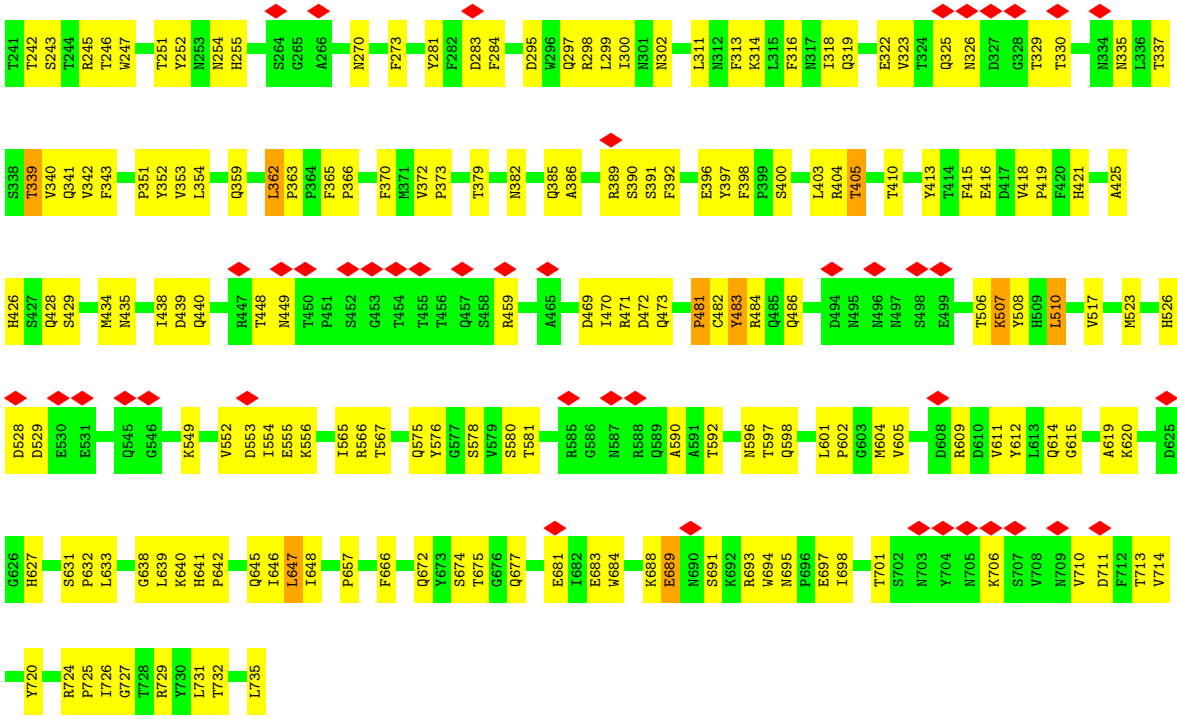
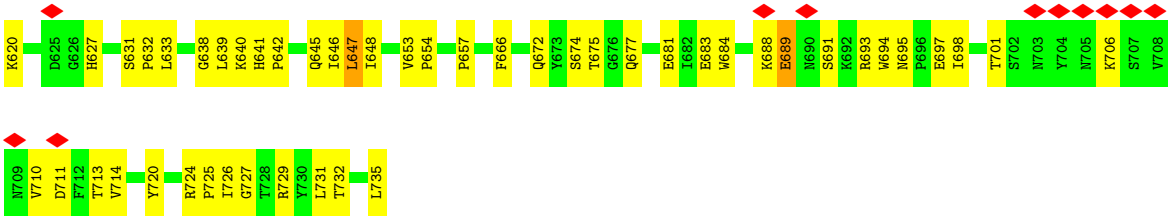


• Molecule 1: Capsid protein VP1

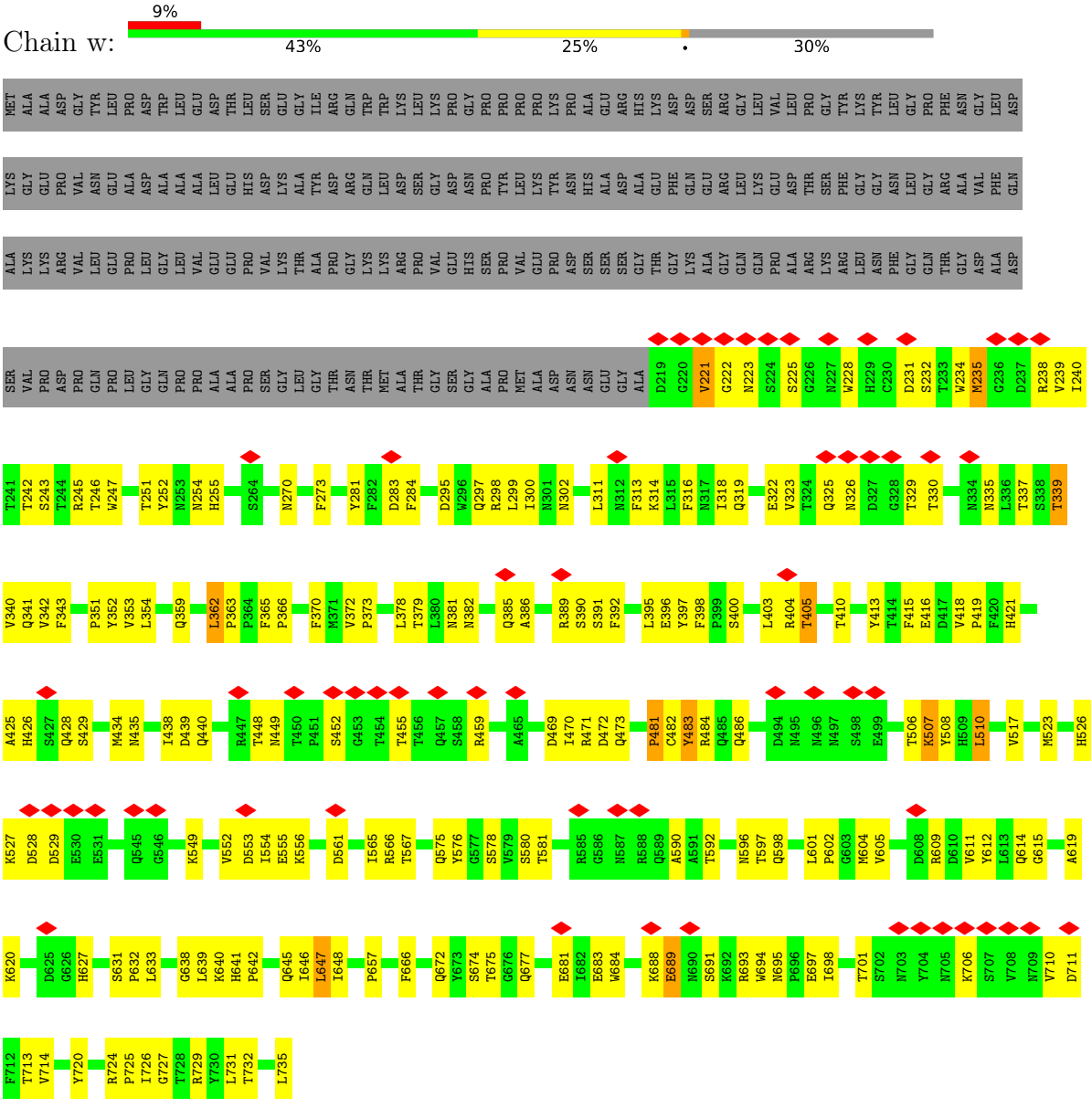
Chain u:



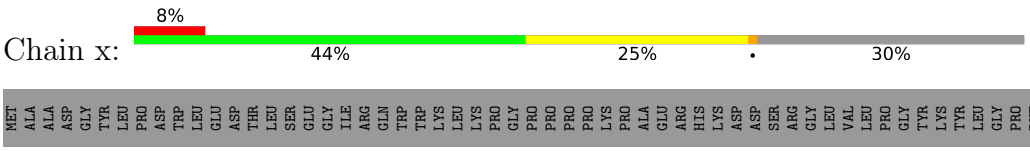


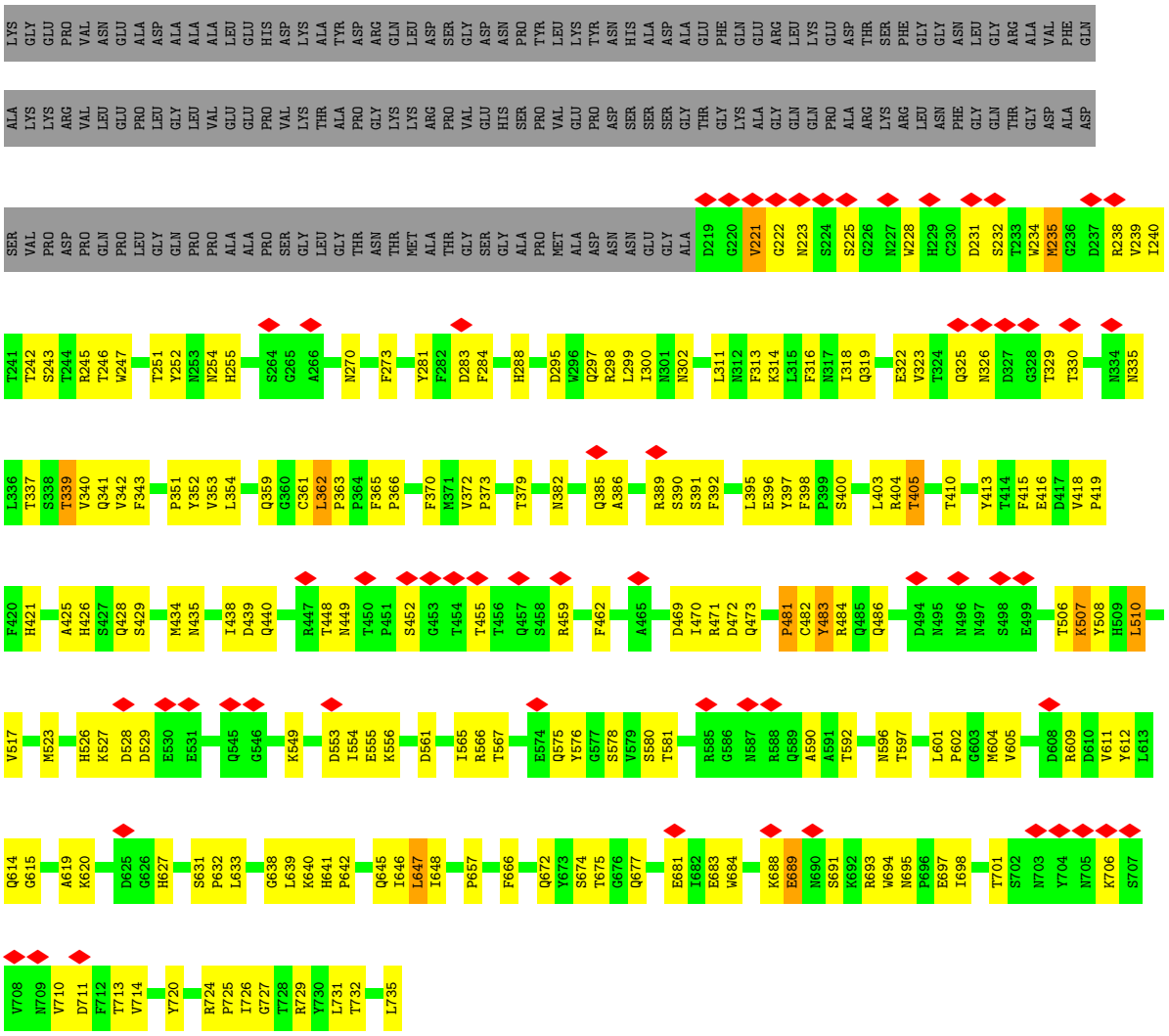


• Molecule 1: Capsid protein VP1



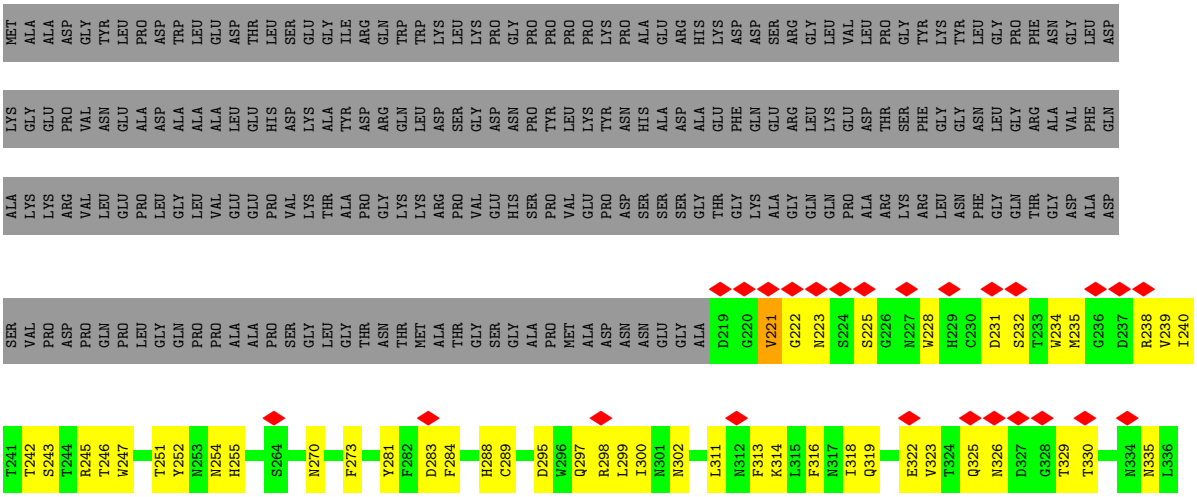
• Molecule 1: Capsid protein VP1

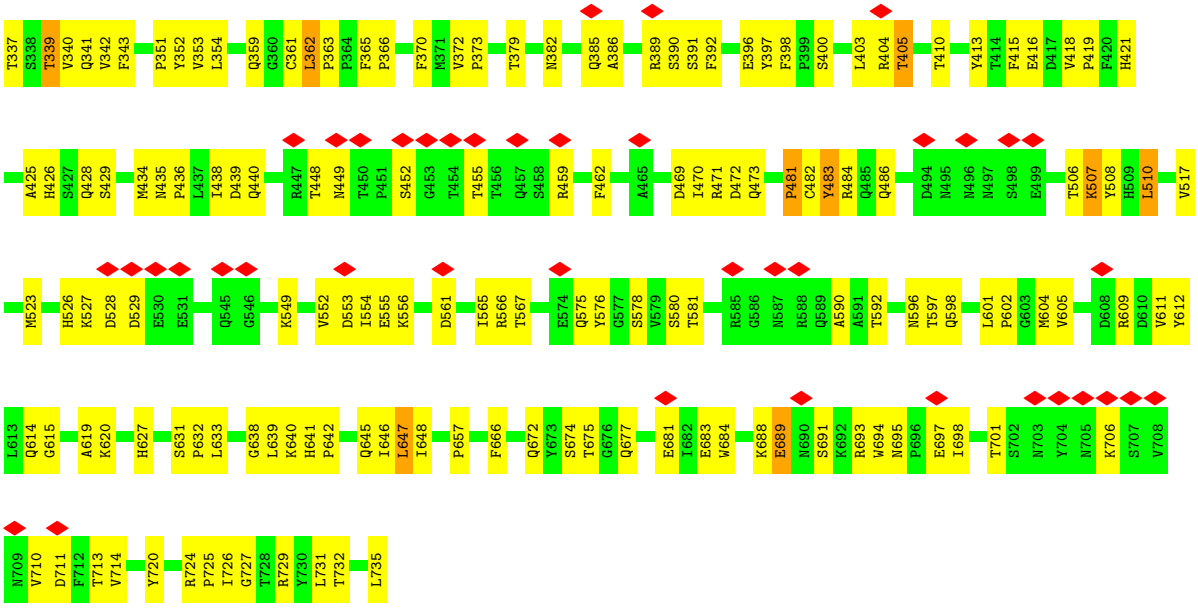




• Molecule 1: Capsid protein VP1

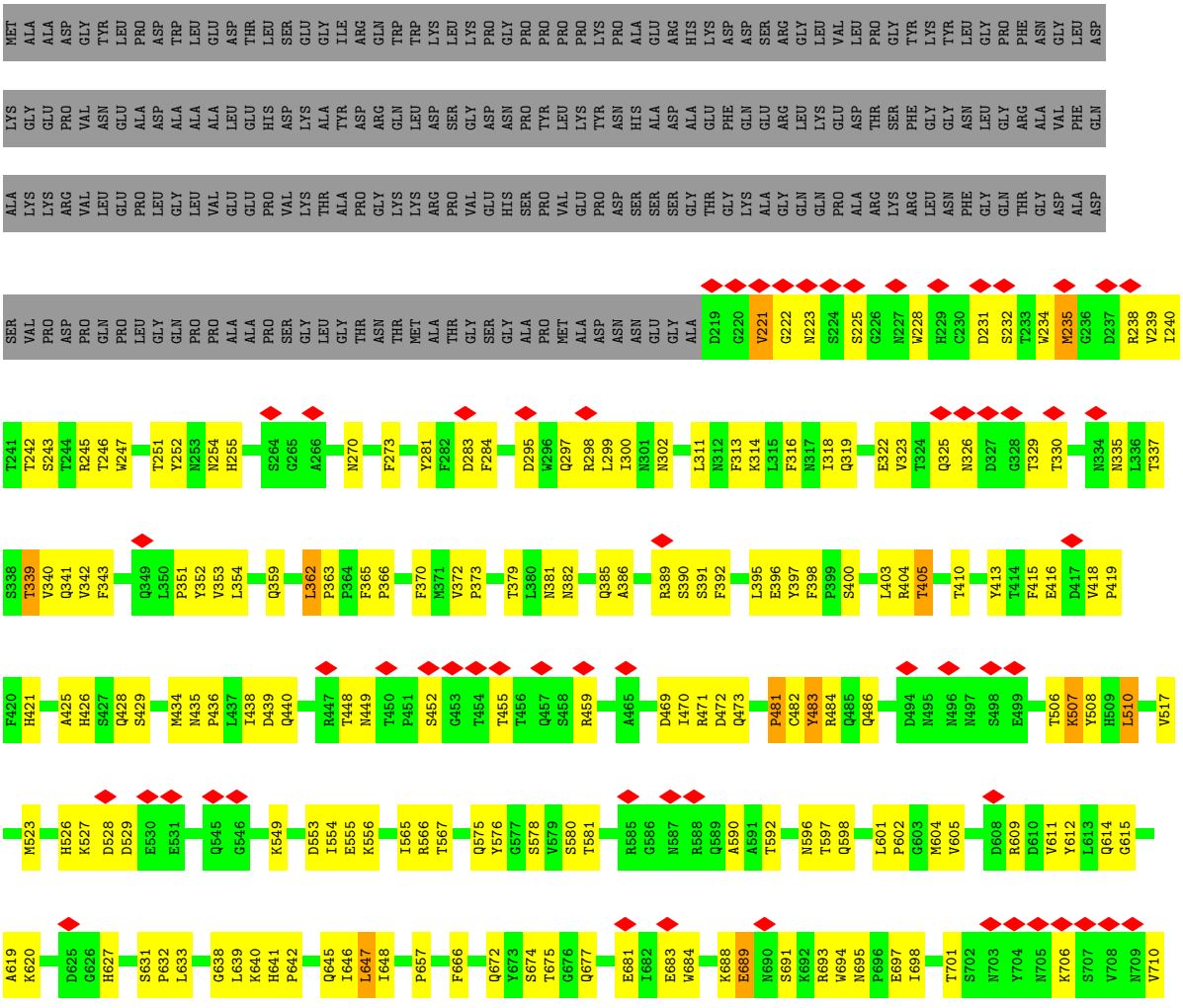
Chain y:

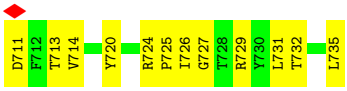




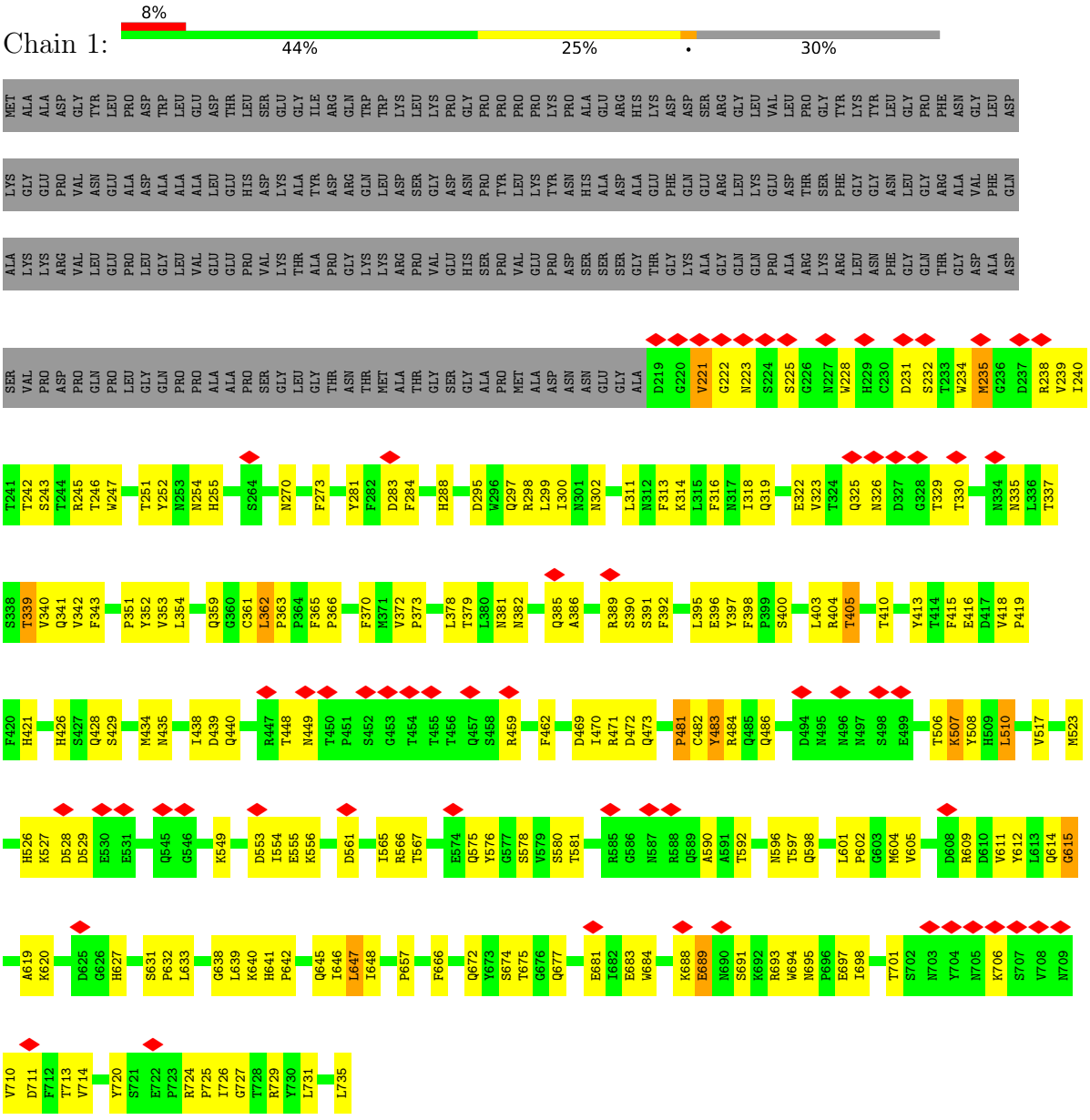
• Molecule 1: Capsid protein VP1

Chain z:

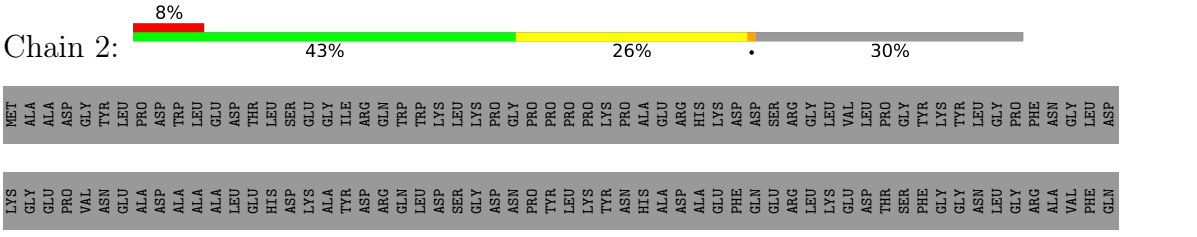


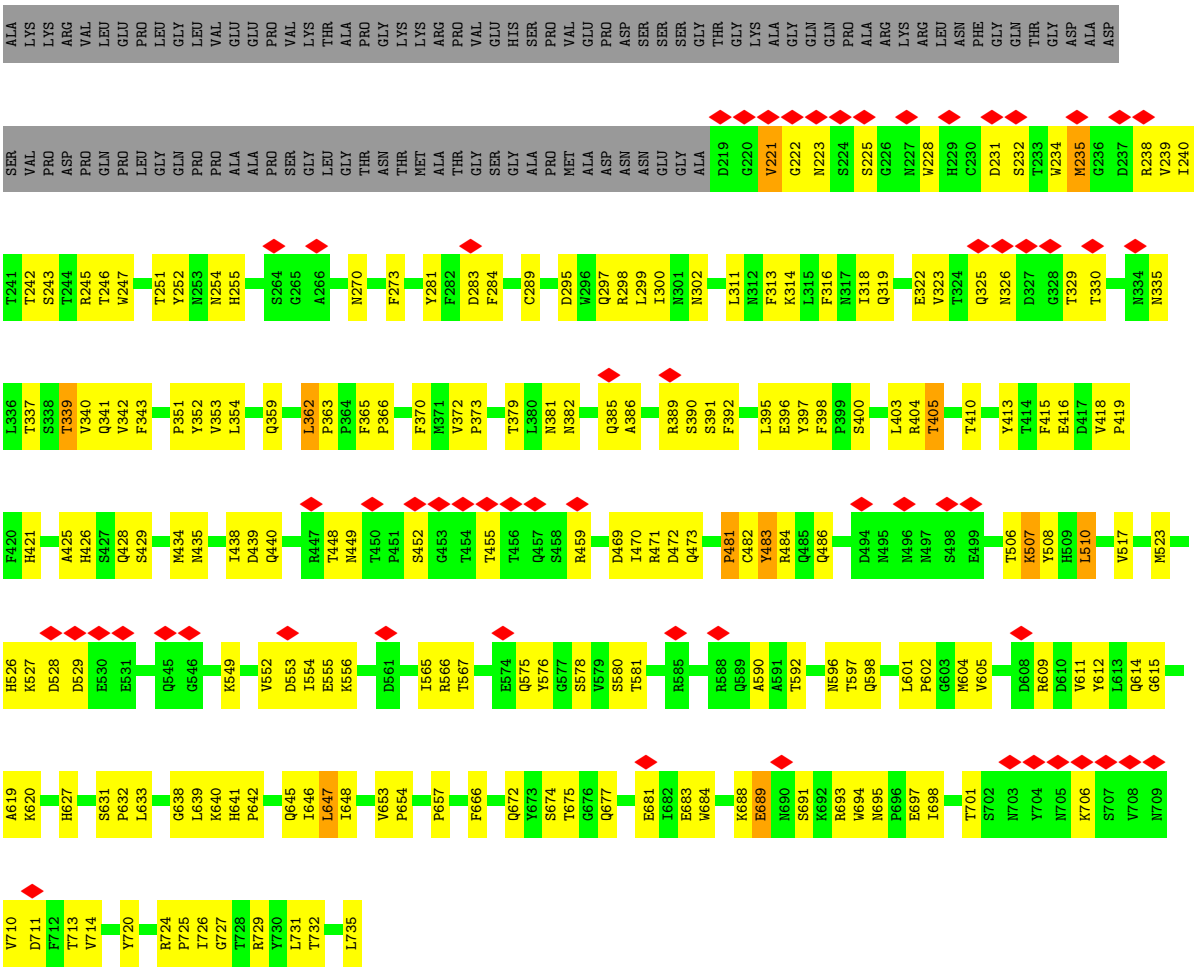


• Molecule 1: Capsid protein VP1



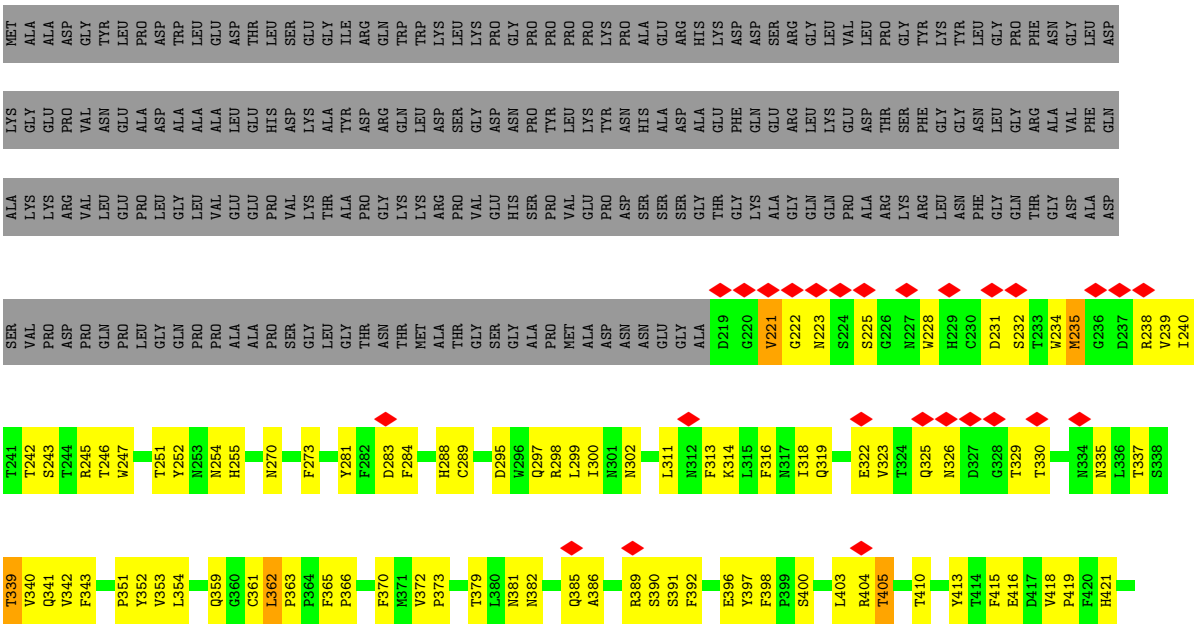
• Molecule 1: Capsid protein VP1

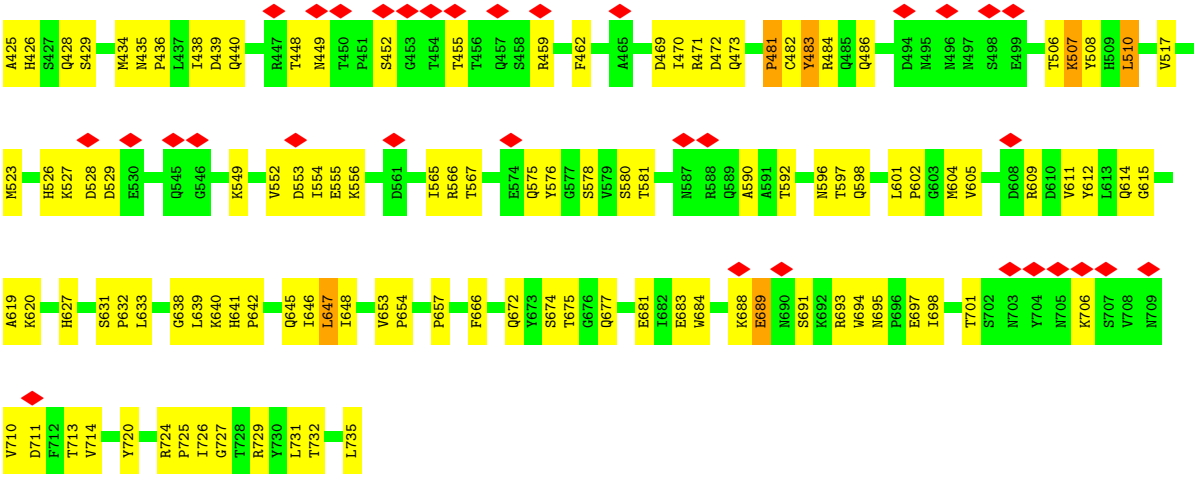




• Molecule 1: Capsid protein VP1

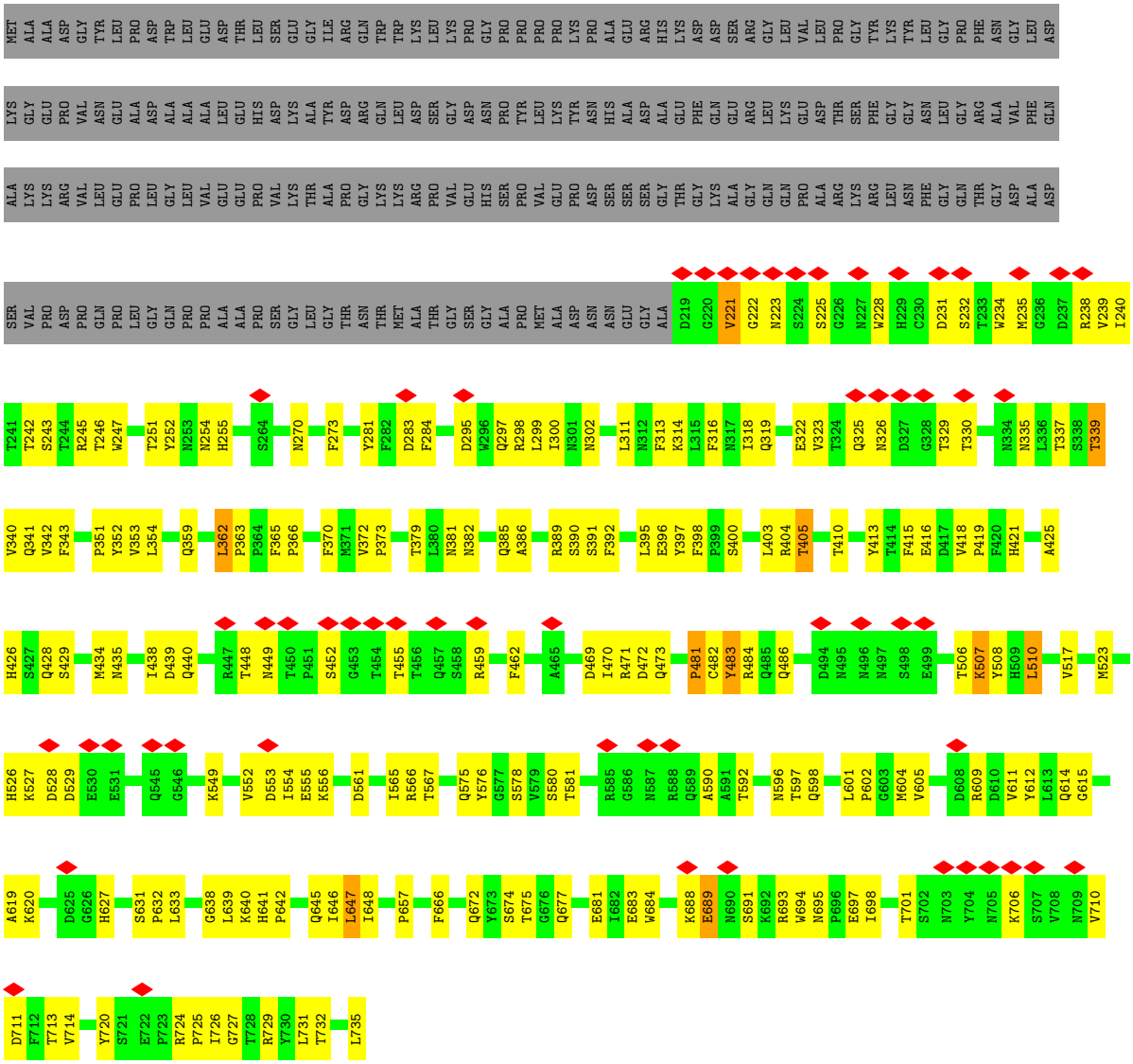
Chain 3:





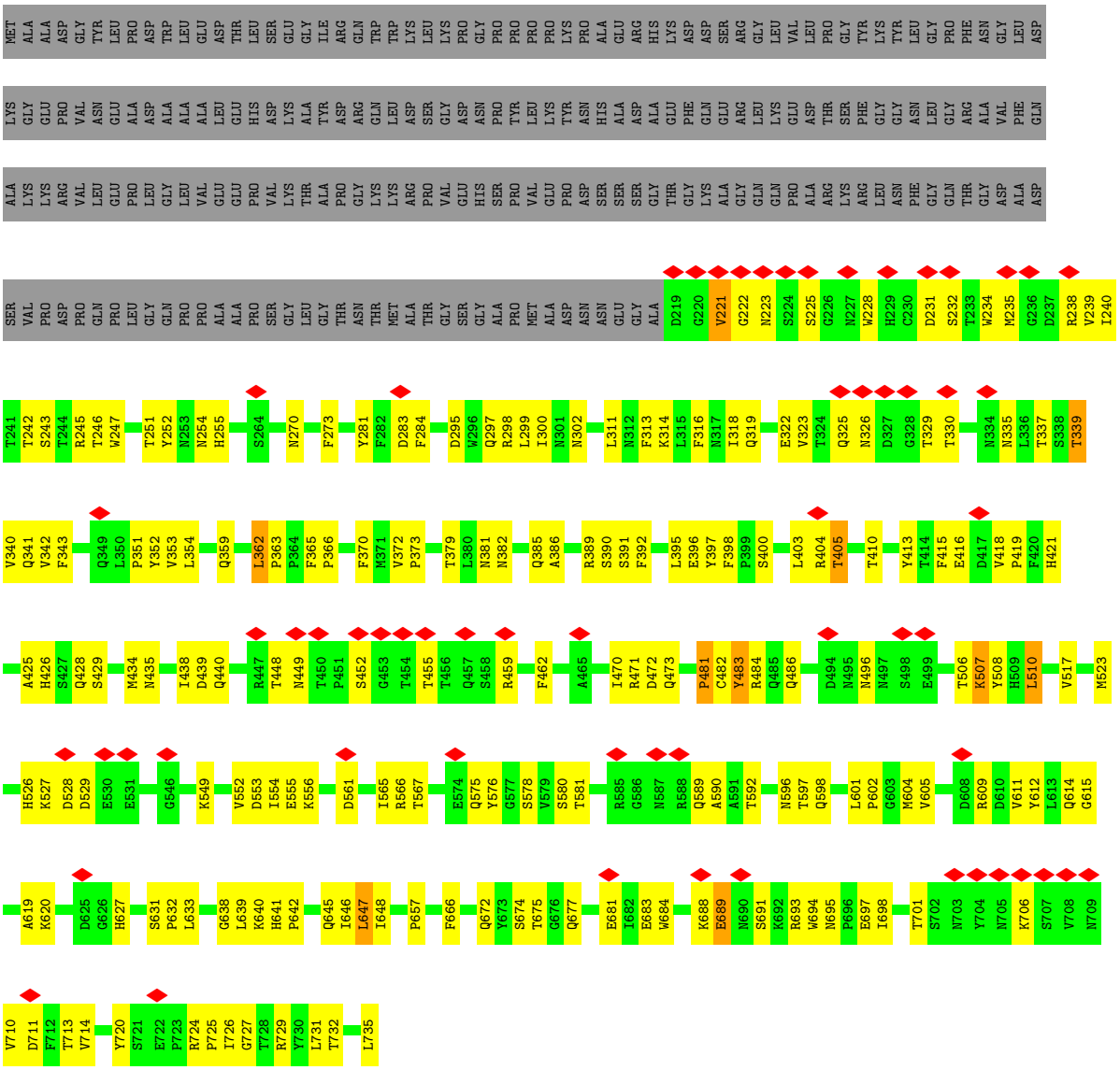
• Molecule 1: Capsid protein VP1

Chain 4:



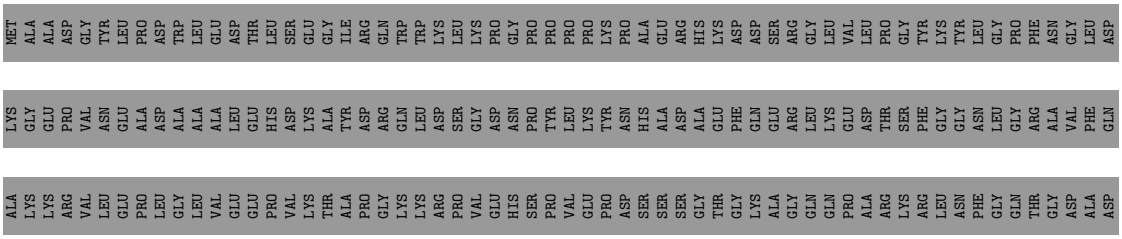
• Molecule 1: Capsid protein VP1

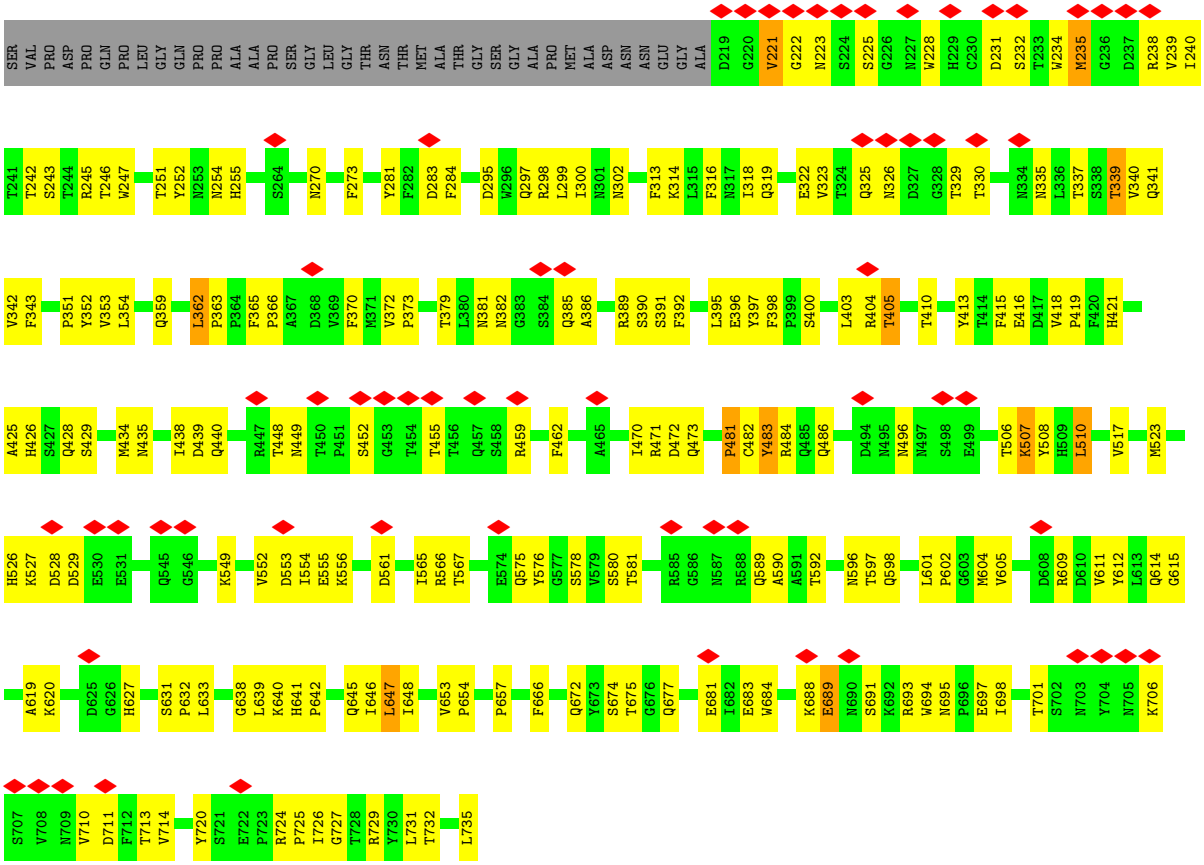
Chain 5:



• Molecule 1: Capsid protein VP1

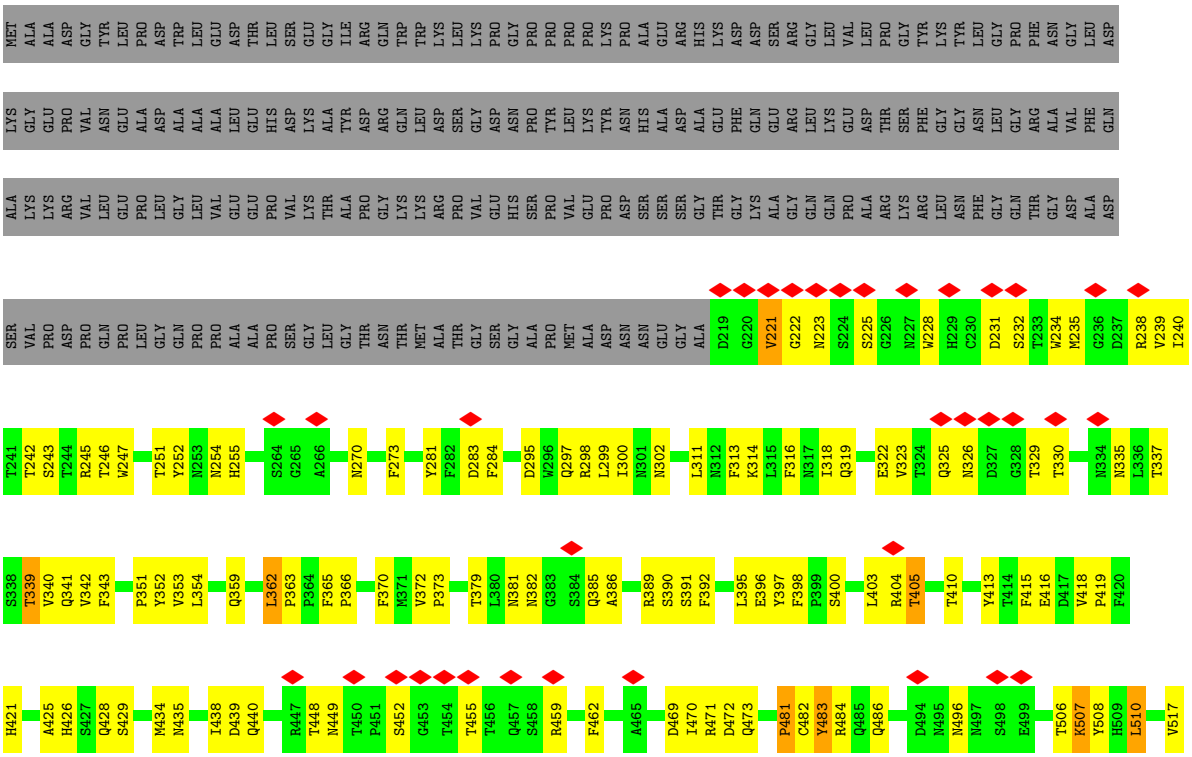
Chain 6:

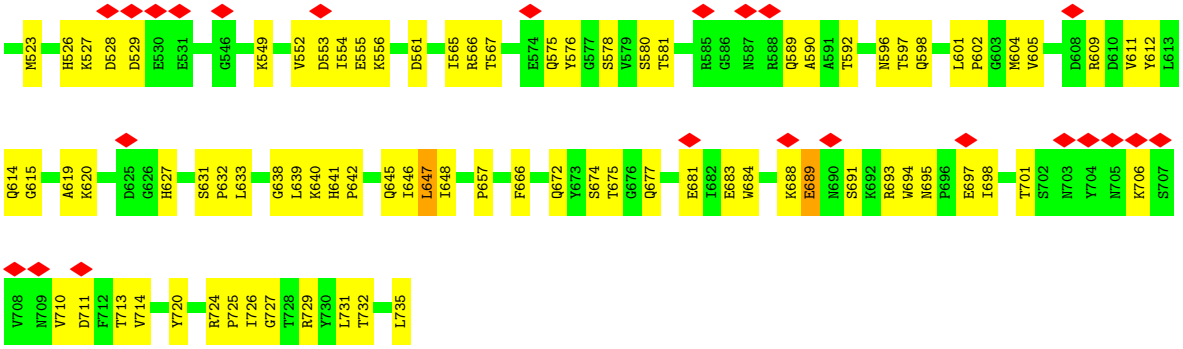




• Molecule 1: Capsid protein VP1

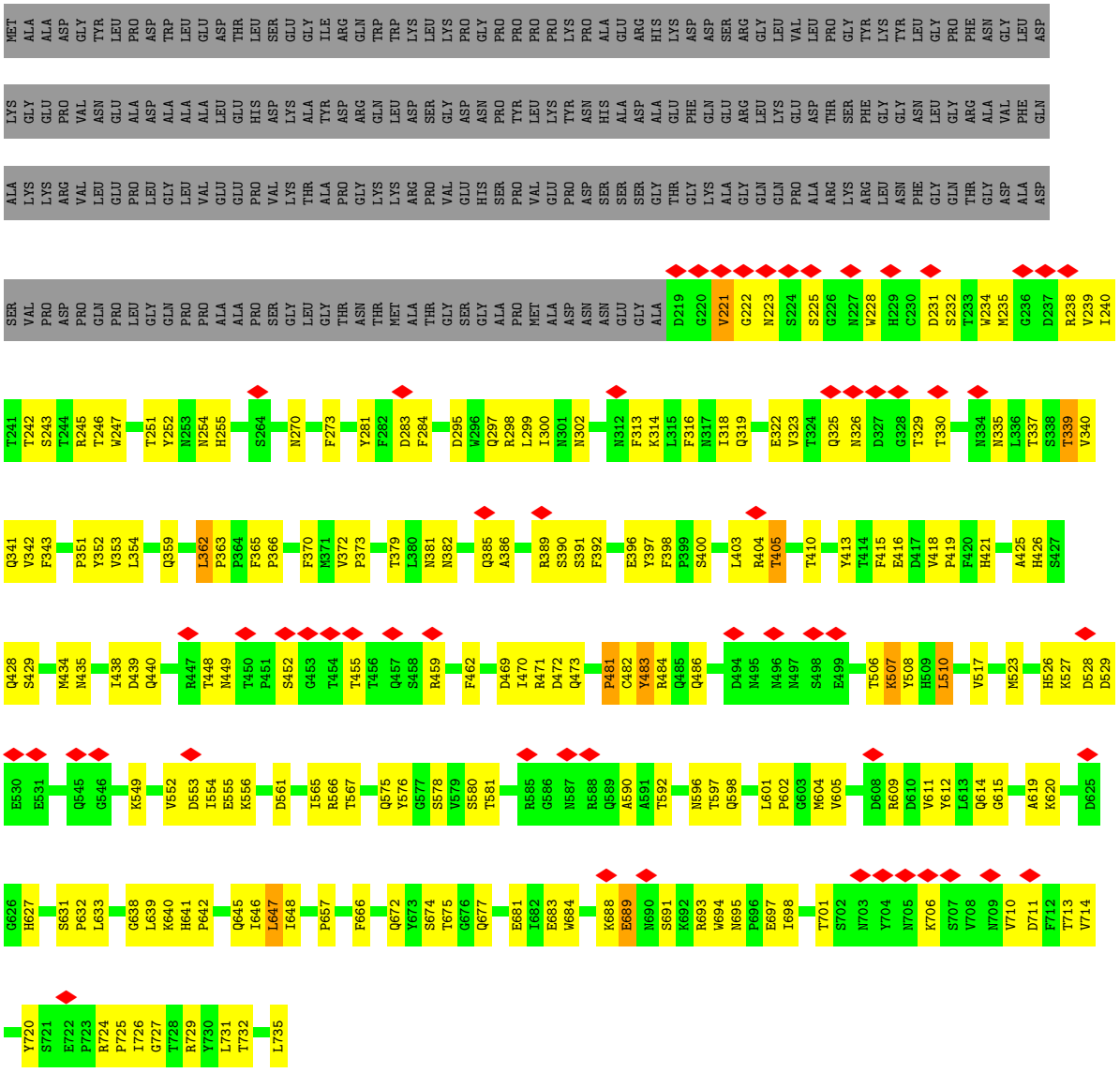
Chain 7:





• Molecule 1: Capsid protein VP1

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	291	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	34	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	30.997	Depositor
Minimum map value	-13.154	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	5	Depositor
Map size (Å)	821.76, 821.76, 821.76	wwPDB
Map dimensions	768, 768, 768	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	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	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	2	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	3	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	4	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	5	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	6	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	7	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	8	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	A	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	B	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	C	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	D	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	E	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	F	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	G	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	H	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	I	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	J	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	K	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	L	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	M	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	N	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	O	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	P	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	Q	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	R	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	S	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	T	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	U	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	V	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	W	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	X	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	Y	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	Z	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	b	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	c	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	d	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	e	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	f	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	g	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	h	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	i	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	j	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	k	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	l	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	m	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	n	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	o	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	p	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	q	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	r	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	s	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	t	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	u	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	v	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	w	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	x	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	y	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
1	z	0.65	3/4266 (0.1%)	0.90	22/5815 (0.4%)
All	All	0.65	180/255960 (0.1%)	0.90	1320/348900 (0.4%)

All (180) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	510	LEU	CA-C	-6.72	1.44	1.52
1	K	510	LEU	CA-C	-6.72	1.44	1.52
1	Q	510	LEU	CA-C	-6.72	1.44	1.52
1	T	510	LEU	CA-C	-6.72	1.44	1.52
1	V	510	LEU	CA-C	-6.72	1.44	1.52
1	g	510	LEU	CA-C	-6.72	1.44	1.52
1	m	510	LEU	CA-C	-6.72	1.44	1.52
1	p	510	LEU	CA-C	-6.72	1.44	1.52
1	u	510	LEU	CA-C	-6.72	1.44	1.52
1	x	510	LEU	CA-C	-6.72	1.44	1.52
1	4	510	LEU	CA-C	-6.72	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	510	LEU	CA-C	-6.71	1.44	1.52
1	F	510	LEU	CA-C	-6.71	1.44	1.52
1	a	510	LEU	CA-C	-6.71	1.44	1.52
1	b	510	LEU	CA-C	-6.71	1.44	1.52
1	c	510	LEU	CA-C	-6.71	1.44	1.52
1	d	510	LEU	CA-C	-6.71	1.44	1.52
1	e	510	LEU	CA-C	-6.71	1.44	1.52
1	f	510	LEU	CA-C	-6.71	1.44	1.52
1	n	510	LEU	CA-C	-6.71	1.44	1.52
1	v	510	LEU	CA-C	-6.71	1.44	1.52
1	y	510	LEU	CA-C	-6.71	1.44	1.52
1	3	510	LEU	CA-C	-6.71	1.44	1.52
1	D	510	LEU	CA-C	-6.67	1.44	1.52
1	H	510	LEU	CA-C	-6.67	1.44	1.52
1	N	510	LEU	CA-C	-6.67	1.44	1.52
1	P	510	LEU	CA-C	-6.67	1.44	1.52
1	W	510	LEU	CA-C	-6.67	1.44	1.52
1	Y	510	LEU	CA-C	-6.67	1.44	1.52
1	i	510	LEU	CA-C	-6.67	1.44	1.52
1	j	510	LEU	CA-C	-6.67	1.44	1.52
1	k	510	LEU	CA-C	-6.67	1.44	1.52
1	5	510	LEU	CA-C	-6.67	1.44	1.52
1	6	510	LEU	CA-C	-6.67	1.44	1.52
1	7	510	LEU	CA-C	-6.67	1.44	1.52
1	E	510	LEU	CA-C	-6.67	1.44	1.52
1	G	510	LEU	CA-C	-6.67	1.44	1.52
1	M	510	LEU	CA-C	-6.67	1.44	1.52
1	O	510	LEU	CA-C	-6.67	1.44	1.52
1	X	510	LEU	CA-C	-6.67	1.44	1.52
1	Z	510	LEU	CA-C	-6.67	1.44	1.52
1	h	510	LEU	CA-C	-6.67	1.44	1.52
1	l	510	LEU	CA-C	-6.67	1.44	1.52
1	o	510	LEU	CA-C	-6.67	1.44	1.52
1	t	510	LEU	CA-C	-6.67	1.44	1.52
1	w	510	LEU	CA-C	-6.67	1.44	1.52
1	8	510	LEU	CA-C	-6.67	1.44	1.52
1	I	510	LEU	CA-C	-6.67	1.44	1.52
1	B	510	LEU	CA-C	-6.65	1.44	1.52
1	J	510	LEU	CA-C	-6.65	1.44	1.52
1	L	510	LEU	CA-C	-6.65	1.44	1.52
1	R	510	LEU	CA-C	-6.65	1.44	1.52
1	S	510	LEU	CA-C	-6.65	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	510	LEU	CA-C	-6.65	1.44	1.52
1	q	510	LEU	CA-C	-6.65	1.44	1.52
1	r	510	LEU	CA-C	-6.65	1.44	1.52
1	s	510	LEU	CA-C	-6.65	1.44	1.52
1	z	510	LEU	CA-C	-6.65	1.44	1.52
1	1	510	LEU	CA-C	-6.65	1.44	1.52
1	2	510	LEU	CA-C	-6.65	1.44	1.52
1	A	373	PRO	N-CD	5.45	1.55	1.47
1	F	373	PRO	N-CD	5.45	1.55	1.47
1	a	373	PRO	N-CD	5.45	1.55	1.47
1	b	373	PRO	N-CD	5.45	1.55	1.47
1	c	373	PRO	N-CD	5.45	1.55	1.47
1	d	373	PRO	N-CD	5.45	1.55	1.47
1	e	373	PRO	N-CD	5.45	1.55	1.47
1	f	373	PRO	N-CD	5.45	1.55	1.47
1	n	373	PRO	N-CD	5.45	1.55	1.47
1	v	373	PRO	N-CD	5.45	1.55	1.47
1	y	373	PRO	N-CD	5.45	1.55	1.47
1	3	373	PRO	N-CD	5.45	1.55	1.47
1	C	373	PRO	N-CD	5.43	1.55	1.47
1	I	373	PRO	N-CD	5.43	1.55	1.47
1	K	373	PRO	N-CD	5.43	1.55	1.47
1	Q	373	PRO	N-CD	5.43	1.55	1.47
1	T	373	PRO	N-CD	5.43	1.55	1.47
1	V	373	PRO	N-CD	5.43	1.55	1.47
1	g	373	PRO	N-CD	5.43	1.55	1.47
1	m	373	PRO	N-CD	5.43	1.55	1.47
1	p	373	PRO	N-CD	5.43	1.55	1.47
1	u	373	PRO	N-CD	5.43	1.55	1.47
1	x	373	PRO	N-CD	5.43	1.55	1.47
1	4	373	PRO	N-CD	5.43	1.55	1.47
1	E	373	PRO	N-CD	5.41	1.55	1.47
1	G	373	PRO	N-CD	5.41	1.55	1.47
1	M	373	PRO	N-CD	5.41	1.55	1.47
1	O	373	PRO	N-CD	5.41	1.55	1.47
1	X	373	PRO	N-CD	5.41	1.55	1.47
1	Z	373	PRO	N-CD	5.41	1.55	1.47
1	h	373	PRO	N-CD	5.41	1.55	1.47
1	l	373	PRO	N-CD	5.41	1.55	1.47
1	o	373	PRO	N-CD	5.41	1.55	1.47
1	t	373	PRO	N-CD	5.41	1.55	1.47
1	w	373	PRO	N-CD	5.41	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	373	PRO	N-CD	5.41	1.55	1.47
1	B	373	PRO	N-CD	5.40	1.55	1.47
1	D	373	PRO	N-CD	5.40	1.55	1.47
1	H	373	PRO	N-CD	5.40	1.55	1.47
1	J	373	PRO	N-CD	5.40	1.55	1.47
1	L	373	PRO	N-CD	5.40	1.55	1.47
1	N	373	PRO	N-CD	5.40	1.55	1.47
1	P	373	PRO	N-CD	5.40	1.55	1.47
1	R	373	PRO	N-CD	5.40	1.55	1.47
1	S	373	PRO	N-CD	5.40	1.55	1.47
1	U	373	PRO	N-CD	5.40	1.55	1.47
1	W	373	PRO	N-CD	5.40	1.55	1.47
1	Y	373	PRO	N-CD	5.40	1.55	1.47
1	i	373	PRO	N-CD	5.40	1.55	1.47
1	j	373	PRO	N-CD	5.40	1.55	1.47
1	k	373	PRO	N-CD	5.40	1.55	1.47
1	q	373	PRO	N-CD	5.40	1.55	1.47
1	r	373	PRO	N-CD	5.40	1.55	1.47
1	s	373	PRO	N-CD	5.40	1.55	1.47
1	z	373	PRO	N-CD	5.40	1.55	1.47
1	1	373	PRO	N-CD	5.40	1.55	1.47
1	2	373	PRO	N-CD	5.40	1.55	1.47
1	5	373	PRO	N-CD	5.40	1.55	1.47
1	6	373	PRO	N-CD	5.40	1.55	1.47
1	7	373	PRO	N-CD	5.40	1.55	1.47
1	C	339	THR	N-CA	5.02	1.52	1.45
1	D	339	THR	N-CA	5.02	1.52	1.45
1	H	339	THR	N-CA	5.02	1.52	1.45
1	I	339	THR	N-CA	5.02	1.52	1.45
1	K	339	THR	N-CA	5.02	1.52	1.45
1	N	339	THR	N-CA	5.02	1.52	1.45
1	P	339	THR	N-CA	5.02	1.52	1.45
1	Q	339	THR	N-CA	5.02	1.52	1.45
1	T	339	THR	N-CA	5.02	1.52	1.45
1	V	339	THR	N-CA	5.02	1.52	1.45
1	W	339	THR	N-CA	5.02	1.52	1.45
1	Y	339	THR	N-CA	5.02	1.52	1.45
1	g	339	THR	N-CA	5.02	1.52	1.45
1	i	339	THR	N-CA	5.02	1.52	1.45
1	j	339	THR	N-CA	5.02	1.52	1.45
1	k	339	THR	N-CA	5.02	1.52	1.45
1	m	339	THR	N-CA	5.02	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	339	THR	N-CA	5.02	1.52	1.45
1	u	339	THR	N-CA	5.02	1.52	1.45
1	x	339	THR	N-CA	5.02	1.52	1.45
1	4	339	THR	N-CA	5.02	1.52	1.45
1	5	339	THR	N-CA	5.02	1.52	1.45
1	6	339	THR	N-CA	5.02	1.52	1.45
1	7	339	THR	N-CA	5.02	1.52	1.45
1	A	339	THR	N-CA	5.02	1.52	1.45
1	F	339	THR	N-CA	5.02	1.52	1.45
1	a	339	THR	N-CA	5.02	1.52	1.45
1	b	339	THR	N-CA	5.02	1.52	1.45
1	c	339	THR	N-CA	5.02	1.52	1.45
1	d	339	THR	N-CA	5.02	1.52	1.45
1	e	339	THR	N-CA	5.02	1.52	1.45
1	f	339	THR	N-CA	5.02	1.52	1.45
1	n	339	THR	N-CA	5.02	1.52	1.45
1	v	339	THR	N-CA	5.02	1.52	1.45
1	y	339	THR	N-CA	5.02	1.52	1.45
1	3	339	THR	N-CA	5.02	1.52	1.45
1	E	339	THR	N-CA	5.01	1.52	1.45
1	G	339	THR	N-CA	5.01	1.52	1.45
1	M	339	THR	N-CA	5.01	1.52	1.45
1	O	339	THR	N-CA	5.01	1.52	1.45
1	X	339	THR	N-CA	5.01	1.52	1.45
1	Z	339	THR	N-CA	5.01	1.52	1.45
1	h	339	THR	N-CA	5.01	1.52	1.45
1	l	339	THR	N-CA	5.01	1.52	1.45
1	o	339	THR	N-CA	5.01	1.52	1.45
1	t	339	THR	N-CA	5.01	1.52	1.45
1	w	339	THR	N-CA	5.01	1.52	1.45
1	8	339	THR	N-CA	5.01	1.52	1.45
1	B	339	THR	N-CA	5.01	1.52	1.45
1	J	339	THR	N-CA	5.01	1.52	1.45
1	L	339	THR	N-CA	5.01	1.52	1.45
1	R	339	THR	N-CA	5.01	1.52	1.45
1	S	339	THR	N-CA	5.01	1.52	1.45
1	U	339	THR	N-CA	5.01	1.52	1.45
1	q	339	THR	N-CA	5.01	1.52	1.45
1	r	339	THR	N-CA	5.01	1.52	1.45
1	s	339	THR	N-CA	5.01	1.52	1.45
1	z	339	THR	N-CA	5.01	1.52	1.45
1	1	339	THR	N-CA	5.01	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	339	THR	N-CA	5.01	1.52	1.45

All (1320) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	302	ASN	N-CA-C	11.11	127.04	113.38
1	J	302	ASN	N-CA-C	11.11	127.04	113.38
1	L	302	ASN	N-CA-C	11.11	127.04	113.38
1	R	302	ASN	N-CA-C	11.11	127.04	113.38
1	S	302	ASN	N-CA-C	11.11	127.04	113.38
1	U	302	ASN	N-CA-C	11.11	127.04	113.38
1	q	302	ASN	N-CA-C	11.11	127.04	113.38
1	r	302	ASN	N-CA-C	11.11	127.04	113.38
1	s	302	ASN	N-CA-C	11.11	127.04	113.38
1	z	302	ASN	N-CA-C	11.11	127.04	113.38
1	1	302	ASN	N-CA-C	11.11	127.04	113.38
1	2	302	ASN	N-CA-C	11.11	127.04	113.38
1	C	302	ASN	N-CA-C	11.08	127.01	113.38
1	I	302	ASN	N-CA-C	11.08	127.01	113.38
1	K	302	ASN	N-CA-C	11.08	127.01	113.38
1	Q	302	ASN	N-CA-C	11.08	127.01	113.38
1	T	302	ASN	N-CA-C	11.08	127.01	113.38
1	V	302	ASN	N-CA-C	11.08	127.01	113.38
1	g	302	ASN	N-CA-C	11.08	127.01	113.38
1	m	302	ASN	N-CA-C	11.08	127.01	113.38
1	p	302	ASN	N-CA-C	11.08	127.01	113.38
1	u	302	ASN	N-CA-C	11.08	127.01	113.38
1	x	302	ASN	N-CA-C	11.08	127.01	113.38
1	4	302	ASN	N-CA-C	11.08	127.01	113.38
1	D	302	ASN	N-CA-C	11.08	127.00	113.38
1	E	302	ASN	N-CA-C	11.08	127.00	113.38
1	G	302	ASN	N-CA-C	11.08	127.00	113.38
1	H	302	ASN	N-CA-C	11.08	127.00	113.38
1	M	302	ASN	N-CA-C	11.08	127.00	113.38
1	N	302	ASN	N-CA-C	11.08	127.00	113.38
1	O	302	ASN	N-CA-C	11.08	127.00	113.38
1	P	302	ASN	N-CA-C	11.08	127.00	113.38
1	W	302	ASN	N-CA-C	11.08	127.00	113.38
1	X	302	ASN	N-CA-C	11.08	127.00	113.38
1	Y	302	ASN	N-CA-C	11.08	127.00	113.38
1	Z	302	ASN	N-CA-C	11.08	127.00	113.38
1	h	302	ASN	N-CA-C	11.08	127.00	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	302	ASN	N-CA-C	11.08	127.00	113.38
1	j	302	ASN	N-CA-C	11.08	127.00	113.38
1	k	302	ASN	N-CA-C	11.08	127.00	113.38
1	l	302	ASN	N-CA-C	11.08	127.00	113.38
1	o	302	ASN	N-CA-C	11.08	127.00	113.38
1	t	302	ASN	N-CA-C	11.08	127.00	113.38
1	w	302	ASN	N-CA-C	11.08	127.00	113.38
1	5	302	ASN	N-CA-C	11.08	127.00	113.38
1	6	302	ASN	N-CA-C	11.08	127.00	113.38
1	7	302	ASN	N-CA-C	11.08	127.00	113.38
1	8	302	ASN	N-CA-C	11.08	127.00	113.38
1	A	302	ASN	N-CA-C	11.07	127.00	113.38
1	F	302	ASN	N-CA-C	11.07	127.00	113.38
1	a	302	ASN	N-CA-C	11.07	127.00	113.38
1	b	302	ASN	N-CA-C	11.07	127.00	113.38
1	c	302	ASN	N-CA-C	11.07	127.00	113.38
1	d	302	ASN	N-CA-C	11.07	127.00	113.38
1	e	302	ASN	N-CA-C	11.07	127.00	113.38
1	f	302	ASN	N-CA-C	11.07	127.00	113.38
1	n	302	ASN	N-CA-C	11.07	127.00	113.38
1	v	302	ASN	N-CA-C	11.07	127.00	113.38
1	y	302	ASN	N-CA-C	11.07	127.00	113.38
1	3	302	ASN	N-CA-C	11.07	127.00	113.38
1	F	549	LYS	N-CA-C	10.69	123.02	111.36
1	A	549	LYS	N-CA-C	10.67	122.99	111.36
1	a	549	LYS	N-CA-C	10.67	122.99	111.36
1	b	549	LYS	N-CA-C	10.67	122.99	111.36
1	c	549	LYS	N-CA-C	10.67	122.99	111.36
1	d	549	LYS	N-CA-C	10.67	122.99	111.36
1	e	549	LYS	N-CA-C	10.67	122.99	111.36
1	f	549	LYS	N-CA-C	10.67	122.99	111.36
1	n	549	LYS	N-CA-C	10.67	122.99	111.36
1	v	549	LYS	N-CA-C	10.67	122.99	111.36
1	y	549	LYS	N-CA-C	10.67	122.99	111.36
1	3	549	LYS	N-CA-C	10.67	122.99	111.36
1	B	549	LYS	N-CA-C	10.66	122.98	111.36
1	J	549	LYS	N-CA-C	10.66	122.98	111.36
1	L	549	LYS	N-CA-C	10.66	122.98	111.36
1	R	549	LYS	N-CA-C	10.66	122.98	111.36
1	S	549	LYS	N-CA-C	10.66	122.98	111.36
1	U	549	LYS	N-CA-C	10.66	122.98	111.36
1	q	549	LYS	N-CA-C	10.66	122.98	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	549	LYS	N-CA-C	10.66	122.98	111.36
1	s	549	LYS	N-CA-C	10.66	122.98	111.36
1	z	549	LYS	N-CA-C	10.66	122.98	111.36
1	1	549	LYS	N-CA-C	10.66	122.98	111.36
1	2	549	LYS	N-CA-C	10.66	122.98	111.36
1	E	549	LYS	N-CA-C	10.65	122.96	111.36
1	G	549	LYS	N-CA-C	10.65	122.96	111.36
1	M	549	LYS	N-CA-C	10.65	122.96	111.36
1	O	549	LYS	N-CA-C	10.65	122.96	111.36
1	X	549	LYS	N-CA-C	10.65	122.96	111.36
1	Z	549	LYS	N-CA-C	10.65	122.96	111.36
1	h	549	LYS	N-CA-C	10.65	122.96	111.36
1	l	549	LYS	N-CA-C	10.65	122.96	111.36
1	o	549	LYS	N-CA-C	10.65	122.96	111.36
1	t	549	LYS	N-CA-C	10.65	122.96	111.36
1	w	549	LYS	N-CA-C	10.65	122.96	111.36
1	8	549	LYS	N-CA-C	10.65	122.96	111.36
1	D	549	LYS	N-CA-C	10.64	122.95	111.36
1	H	549	LYS	N-CA-C	10.64	122.95	111.36
1	N	549	LYS	N-CA-C	10.64	122.95	111.36
1	P	549	LYS	N-CA-C	10.64	122.95	111.36
1	W	549	LYS	N-CA-C	10.64	122.95	111.36
1	Y	549	LYS	N-CA-C	10.64	122.95	111.36
1	i	549	LYS	N-CA-C	10.64	122.95	111.36
1	j	549	LYS	N-CA-C	10.64	122.95	111.36
1	k	549	LYS	N-CA-C	10.64	122.95	111.36
1	5	549	LYS	N-CA-C	10.64	122.95	111.36
1	6	549	LYS	N-CA-C	10.64	122.95	111.36
1	7	549	LYS	N-CA-C	10.64	122.95	111.36
1	C	549	LYS	N-CA-C	10.63	122.95	111.36
1	I	549	LYS	N-CA-C	10.63	122.95	111.36
1	K	549	LYS	N-CA-C	10.63	122.95	111.36
1	Q	549	LYS	N-CA-C	10.63	122.95	111.36
1	T	549	LYS	N-CA-C	10.63	122.95	111.36
1	V	549	LYS	N-CA-C	10.63	122.95	111.36
1	g	549	LYS	N-CA-C	10.63	122.95	111.36
1	m	549	LYS	N-CA-C	10.63	122.95	111.36
1	p	549	LYS	N-CA-C	10.63	122.95	111.36
1	u	549	LYS	N-CA-C	10.63	122.95	111.36
1	x	549	LYS	N-CA-C	10.63	122.95	111.36
1	4	549	LYS	N-CA-C	10.63	122.95	111.36
1	E	231	ASP	N-CA-C	8.07	121.89	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	231	ASP	N-CA-C	8.07	121.89	110.50
1	M	231	ASP	N-CA-C	8.07	121.89	110.50
1	O	231	ASP	N-CA-C	8.07	121.89	110.50
1	X	231	ASP	N-CA-C	8.07	121.89	110.50
1	Z	231	ASP	N-CA-C	8.07	121.89	110.50
1	h	231	ASP	N-CA-C	8.07	121.89	110.50
1	l	231	ASP	N-CA-C	8.07	121.89	110.50
1	o	231	ASP	N-CA-C	8.07	121.89	110.50
1	t	231	ASP	N-CA-C	8.07	121.89	110.50
1	w	231	ASP	N-CA-C	8.07	121.89	110.50
1	8	231	ASP	N-CA-C	8.07	121.89	110.50
1	C	231	ASP	N-CA-C	8.06	121.86	110.50
1	I	231	ASP	N-CA-C	8.06	121.86	110.50
1	K	231	ASP	N-CA-C	8.06	121.86	110.50
1	Q	231	ASP	N-CA-C	8.06	121.86	110.50
1	T	231	ASP	N-CA-C	8.06	121.86	110.50
1	V	231	ASP	N-CA-C	8.06	121.86	110.50
1	g	231	ASP	N-CA-C	8.06	121.86	110.50
1	m	231	ASP	N-CA-C	8.06	121.86	110.50
1	p	231	ASP	N-CA-C	8.06	121.86	110.50
1	u	231	ASP	N-CA-C	8.06	121.86	110.50
1	x	231	ASP	N-CA-C	8.06	121.86	110.50
1	4	231	ASP	N-CA-C	8.06	121.86	110.50
1	A	231	ASP	N-CA-C	8.04	121.84	110.50
1	D	231	ASP	N-CA-C	8.04	121.84	110.50
1	F	231	ASP	N-CA-C	8.04	121.84	110.50
1	H	231	ASP	N-CA-C	8.04	121.84	110.50
1	N	231	ASP	N-CA-C	8.04	121.84	110.50
1	P	231	ASP	N-CA-C	8.04	121.84	110.50
1	W	231	ASP	N-CA-C	8.04	121.84	110.50
1	Y	231	ASP	N-CA-C	8.04	121.84	110.50
1	a	231	ASP	N-CA-C	8.04	121.84	110.50
1	b	231	ASP	N-CA-C	8.04	121.84	110.50
1	c	231	ASP	N-CA-C	8.04	121.84	110.50
1	d	231	ASP	N-CA-C	8.04	121.84	110.50
1	e	231	ASP	N-CA-C	8.04	121.84	110.50
1	f	231	ASP	N-CA-C	8.04	121.84	110.50
1	i	231	ASP	N-CA-C	8.04	121.84	110.50
1	j	231	ASP	N-CA-C	8.04	121.84	110.50
1	k	231	ASP	N-CA-C	8.04	121.84	110.50
1	n	231	ASP	N-CA-C	8.04	121.84	110.50
1	v	231	ASP	N-CA-C	8.04	121.84	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	231	ASP	N-CA-C	8.04	121.84	110.50
1	3	231	ASP	N-CA-C	8.04	121.84	110.50
1	5	231	ASP	N-CA-C	8.04	121.84	110.50
1	6	231	ASP	N-CA-C	8.04	121.84	110.50
1	7	231	ASP	N-CA-C	8.04	121.84	110.50
1	B	231	ASP	N-CA-C	8.03	121.82	110.50
1	J	231	ASP	N-CA-C	8.03	121.82	110.50
1	L	231	ASP	N-CA-C	8.03	121.82	110.50
1	R	231	ASP	N-CA-C	8.03	121.82	110.50
1	S	231	ASP	N-CA-C	8.03	121.82	110.50
1	U	231	ASP	N-CA-C	8.03	121.82	110.50
1	q	231	ASP	N-CA-C	8.03	121.82	110.50
1	r	231	ASP	N-CA-C	8.03	121.82	110.50
1	s	231	ASP	N-CA-C	8.03	121.82	110.50
1	z	231	ASP	N-CA-C	8.03	121.82	110.50
1	1	231	ASP	N-CA-C	8.03	121.82	110.50
1	2	231	ASP	N-CA-C	8.03	121.82	110.50
1	A	300	ILE	N-CA-C	7.87	118.67	110.72
1	F	300	ILE	N-CA-C	7.87	118.67	110.72
1	a	300	ILE	N-CA-C	7.87	118.67	110.72
1	b	300	ILE	N-CA-C	7.87	118.67	110.72
1	c	300	ILE	N-CA-C	7.87	118.67	110.72
1	d	300	ILE	N-CA-C	7.87	118.67	110.72
1	e	300	ILE	N-CA-C	7.87	118.67	110.72
1	f	300	ILE	N-CA-C	7.87	118.67	110.72
1	n	300	ILE	N-CA-C	7.87	118.67	110.72
1	v	300	ILE	N-CA-C	7.87	118.67	110.72
1	y	300	ILE	N-CA-C	7.87	118.67	110.72
1	3	300	ILE	N-CA-C	7.87	118.67	110.72
1	E	300	ILE	N-CA-C	7.86	118.66	110.72
1	G	300	ILE	N-CA-C	7.86	118.66	110.72
1	M	300	ILE	N-CA-C	7.86	118.66	110.72
1	O	300	ILE	N-CA-C	7.86	118.66	110.72
1	X	300	ILE	N-CA-C	7.86	118.66	110.72
1	Z	300	ILE	N-CA-C	7.86	118.66	110.72
1	h	300	ILE	N-CA-C	7.86	118.66	110.72
1	l	300	ILE	N-CA-C	7.86	118.66	110.72
1	o	300	ILE	N-CA-C	7.86	118.66	110.72
1	t	300	ILE	N-CA-C	7.86	118.66	110.72
1	w	300	ILE	N-CA-C	7.86	118.66	110.72
1	8	300	ILE	N-CA-C	7.86	118.66	110.72
1	C	300	ILE	N-CA-C	7.85	118.65	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	300	ILE	N-CA-C	7.85	118.65	110.72
1	K	300	ILE	N-CA-C	7.85	118.65	110.72
1	Q	300	ILE	N-CA-C	7.85	118.65	110.72
1	T	300	ILE	N-CA-C	7.85	118.65	110.72
1	V	300	ILE	N-CA-C	7.85	118.65	110.72
1	g	300	ILE	N-CA-C	7.85	118.65	110.72
1	m	300	ILE	N-CA-C	7.85	118.65	110.72
1	p	300	ILE	N-CA-C	7.85	118.65	110.72
1	u	300	ILE	N-CA-C	7.85	118.65	110.72
1	x	300	ILE	N-CA-C	7.85	118.65	110.72
1	4	300	ILE	N-CA-C	7.85	118.65	110.72
1	B	300	ILE	N-CA-C	7.85	118.65	110.72
1	J	300	ILE	N-CA-C	7.85	118.65	110.72
1	L	300	ILE	N-CA-C	7.85	118.65	110.72
1	R	300	ILE	N-CA-C	7.85	118.65	110.72
1	S	300	ILE	N-CA-C	7.85	118.65	110.72
1	U	300	ILE	N-CA-C	7.85	118.65	110.72
1	q	300	ILE	N-CA-C	7.85	118.65	110.72
1	r	300	ILE	N-CA-C	7.85	118.65	110.72
1	s	300	ILE	N-CA-C	7.85	118.65	110.72
1	z	300	ILE	N-CA-C	7.85	118.65	110.72
1	1	300	ILE	N-CA-C	7.85	118.65	110.72
1	2	300	ILE	N-CA-C	7.85	118.65	110.72
1	D	300	ILE	N-CA-C	7.83	118.63	110.72
1	H	300	ILE	N-CA-C	7.83	118.63	110.72
1	N	300	ILE	N-CA-C	7.83	118.63	110.72
1	P	300	ILE	N-CA-C	7.83	118.63	110.72
1	W	300	ILE	N-CA-C	7.83	118.63	110.72
1	Y	300	ILE	N-CA-C	7.83	118.63	110.72
1	i	300	ILE	N-CA-C	7.83	118.63	110.72
1	j	300	ILE	N-CA-C	7.83	118.63	110.72
1	k	300	ILE	N-CA-C	7.83	118.63	110.72
1	5	300	ILE	N-CA-C	7.83	118.63	110.72
1	6	300	ILE	N-CA-C	7.83	118.63	110.72
1	7	300	ILE	N-CA-C	7.83	118.63	110.72
1	E	615	GLY	CA-C-N	7.78	127.70	119.85
1	E	615	GLY	C-N-CA	7.78	127.70	119.85
1	G	615	GLY	CA-C-N	7.78	127.70	119.85
1	G	615	GLY	C-N-CA	7.78	127.70	119.85
1	M	615	GLY	CA-C-N	7.78	127.70	119.85
1	M	615	GLY	C-N-CA	7.78	127.70	119.85
1	O	615	GLY	CA-C-N	7.78	127.70	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	615	GLY	C-N-CA	7.78	127.70	119.85
1	X	615	GLY	CA-C-N	7.78	127.70	119.85
1	X	615	GLY	C-N-CA	7.78	127.70	119.85
1	Z	615	GLY	CA-C-N	7.78	127.70	119.85
1	Z	615	GLY	C-N-CA	7.78	127.70	119.85
1	h	615	GLY	CA-C-N	7.78	127.70	119.85
1	h	615	GLY	C-N-CA	7.78	127.70	119.85
1	l	615	GLY	CA-C-N	7.78	127.70	119.85
1	l	615	GLY	C-N-CA	7.78	127.70	119.85
1	o	615	GLY	CA-C-N	7.78	127.70	119.85
1	o	615	GLY	C-N-CA	7.78	127.70	119.85
1	t	615	GLY	CA-C-N	7.78	127.70	119.85
1	t	615	GLY	C-N-CA	7.78	127.70	119.85
1	w	615	GLY	CA-C-N	7.78	127.70	119.85
1	w	615	GLY	C-N-CA	7.78	127.70	119.85
1	8	615	GLY	CA-C-N	7.78	127.70	119.85
1	8	615	GLY	C-N-CA	7.78	127.70	119.85
1	B	615	GLY	CA-C-N	7.76	127.69	119.85
1	B	615	GLY	C-N-CA	7.76	127.69	119.85
1	J	615	GLY	CA-C-N	7.76	127.69	119.85
1	J	615	GLY	C-N-CA	7.76	127.69	119.85
1	L	615	GLY	CA-C-N	7.76	127.69	119.85
1	L	615	GLY	C-N-CA	7.76	127.69	119.85
1	R	615	GLY	CA-C-N	7.76	127.69	119.85
1	R	615	GLY	C-N-CA	7.76	127.69	119.85
1	S	615	GLY	CA-C-N	7.76	127.69	119.85
1	S	615	GLY	C-N-CA	7.76	127.69	119.85
1	U	615	GLY	CA-C-N	7.76	127.69	119.85
1	U	615	GLY	C-N-CA	7.76	127.69	119.85
1	q	615	GLY	CA-C-N	7.76	127.69	119.85
1	q	615	GLY	C-N-CA	7.76	127.69	119.85
1	r	615	GLY	CA-C-N	7.76	127.69	119.85
1	r	615	GLY	C-N-CA	7.76	127.69	119.85
1	s	615	GLY	CA-C-N	7.76	127.69	119.85
1	s	615	GLY	C-N-CA	7.76	127.69	119.85
1	z	615	GLY	CA-C-N	7.76	127.69	119.85
1	z	615	GLY	C-N-CA	7.76	127.69	119.85
1	1	615	GLY	CA-C-N	7.76	127.69	119.85
1	1	615	GLY	C-N-CA	7.76	127.69	119.85
1	2	615	GLY	CA-C-N	7.76	127.69	119.85
1	2	615	GLY	C-N-CA	7.76	127.69	119.85
1	C	615	GLY	CA-C-N	7.75	127.68	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	615	GLY	C-N-CA	7.75	127.68	119.85
1	I	615	GLY	CA-C-N	7.75	127.68	119.85
1	I	615	GLY	C-N-CA	7.75	127.68	119.85
1	K	615	GLY	CA-C-N	7.75	127.68	119.85
1	K	615	GLY	C-N-CA	7.75	127.68	119.85
1	Q	615	GLY	CA-C-N	7.75	127.68	119.85
1	Q	615	GLY	C-N-CA	7.75	127.68	119.85
1	T	615	GLY	CA-C-N	7.75	127.68	119.85
1	T	615	GLY	C-N-CA	7.75	127.68	119.85
1	V	615	GLY	CA-C-N	7.75	127.68	119.85
1	V	615	GLY	C-N-CA	7.75	127.68	119.85
1	g	615	GLY	CA-C-N	7.75	127.68	119.85
1	g	615	GLY	C-N-CA	7.75	127.68	119.85
1	m	615	GLY	CA-C-N	7.75	127.68	119.85
1	m	615	GLY	C-N-CA	7.75	127.68	119.85
1	p	615	GLY	CA-C-N	7.75	127.68	119.85
1	p	615	GLY	C-N-CA	7.75	127.68	119.85
1	u	615	GLY	CA-C-N	7.75	127.68	119.85
1	u	615	GLY	C-N-CA	7.75	127.68	119.85
1	x	615	GLY	CA-C-N	7.75	127.68	119.85
1	x	615	GLY	C-N-CA	7.75	127.68	119.85
1	4	615	GLY	CA-C-N	7.75	127.68	119.85
1	4	615	GLY	C-N-CA	7.75	127.68	119.85
1	A	615	GLY	CA-C-N	7.72	127.65	119.85
1	A	615	GLY	C-N-CA	7.72	127.65	119.85
1	D	615	GLY	CA-C-N	7.72	127.65	119.85
1	D	615	GLY	C-N-CA	7.72	127.65	119.85
1	F	615	GLY	CA-C-N	7.72	127.65	119.85
1	F	615	GLY	C-N-CA	7.72	127.65	119.85
1	H	615	GLY	CA-C-N	7.72	127.65	119.85
1	H	615	GLY	C-N-CA	7.72	127.65	119.85
1	N	615	GLY	CA-C-N	7.72	127.65	119.85
1	N	615	GLY	C-N-CA	7.72	127.65	119.85
1	P	615	GLY	CA-C-N	7.72	127.65	119.85
1	P	615	GLY	C-N-CA	7.72	127.65	119.85
1	W	615	GLY	CA-C-N	7.72	127.65	119.85
1	W	615	GLY	C-N-CA	7.72	127.65	119.85
1	Y	615	GLY	CA-C-N	7.72	127.65	119.85
1	Y	615	GLY	C-N-CA	7.72	127.65	119.85
1	a	615	GLY	CA-C-N	7.72	127.65	119.85
1	a	615	GLY	C-N-CA	7.72	127.65	119.85
1	b	615	GLY	CA-C-N	7.72	127.65	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	615	GLY	C-N-CA	7.72	127.65	119.85
1	c	615	GLY	CA-C-N	7.72	127.65	119.85
1	c	615	GLY	C-N-CA	7.72	127.65	119.85
1	d	615	GLY	CA-C-N	7.72	127.65	119.85
1	d	615	GLY	C-N-CA	7.72	127.65	119.85
1	e	615	GLY	CA-C-N	7.72	127.65	119.85
1	e	615	GLY	C-N-CA	7.72	127.65	119.85
1	f	615	GLY	CA-C-N	7.72	127.65	119.85
1	f	615	GLY	C-N-CA	7.72	127.65	119.85
1	i	615	GLY	CA-C-N	7.72	127.65	119.85
1	i	615	GLY	C-N-CA	7.72	127.65	119.85
1	j	615	GLY	CA-C-N	7.72	127.65	119.85
1	j	615	GLY	C-N-CA	7.72	127.65	119.85
1	k	615	GLY	CA-C-N	7.72	127.65	119.85
1	k	615	GLY	C-N-CA	7.72	127.65	119.85
1	n	615	GLY	CA-C-N	7.72	127.65	119.85
1	n	615	GLY	C-N-CA	7.72	127.65	119.85
1	v	615	GLY	CA-C-N	7.72	127.65	119.85
1	v	615	GLY	C-N-CA	7.72	127.65	119.85
1	y	615	GLY	CA-C-N	7.72	127.65	119.85
1	y	615	GLY	C-N-CA	7.72	127.65	119.85
1	3	615	GLY	CA-C-N	7.72	127.65	119.85
1	3	615	GLY	C-N-CA	7.72	127.65	119.85
1	5	615	GLY	CA-C-N	7.72	127.65	119.85
1	5	615	GLY	C-N-CA	7.72	127.65	119.85
1	6	615	GLY	CA-C-N	7.72	127.65	119.85
1	6	615	GLY	C-N-CA	7.72	127.65	119.85
1	7	615	GLY	CA-C-N	7.72	127.65	119.85
1	7	615	GLY	C-N-CA	7.72	127.65	119.85
1	E	339	THR	N-CA-C	7.41	121.14	109.81
1	G	339	THR	N-CA-C	7.41	121.14	109.81
1	M	339	THR	N-CA-C	7.41	121.14	109.81
1	O	339	THR	N-CA-C	7.41	121.14	109.81
1	X	339	THR	N-CA-C	7.41	121.14	109.81
1	Z	339	THR	N-CA-C	7.41	121.14	109.81
1	h	339	THR	N-CA-C	7.41	121.14	109.81
1	l	339	THR	N-CA-C	7.41	121.14	109.81
1	o	339	THR	N-CA-C	7.41	121.14	109.81
1	t	339	THR	N-CA-C	7.41	121.14	109.81
1	w	339	THR	N-CA-C	7.41	121.14	109.81
1	8	339	THR	N-CA-C	7.41	121.14	109.81
1	C	339	THR	N-CA-C	7.40	121.14	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	339	THR	N-CA-C	7.40	121.14	109.81
1	K	339	THR	N-CA-C	7.40	121.14	109.81
1	Q	339	THR	N-CA-C	7.40	121.14	109.81
1	T	339	THR	N-CA-C	7.40	121.14	109.81
1	V	339	THR	N-CA-C	7.40	121.14	109.81
1	g	339	THR	N-CA-C	7.40	121.14	109.81
1	m	339	THR	N-CA-C	7.40	121.14	109.81
1	p	339	THR	N-CA-C	7.40	121.14	109.81
1	u	339	THR	N-CA-C	7.40	121.14	109.81
1	x	339	THR	N-CA-C	7.40	121.14	109.81
1	4	339	THR	N-CA-C	7.40	121.14	109.81
1	B	339	THR	N-CA-C	7.40	121.13	109.81
1	J	339	THR	N-CA-C	7.40	121.13	109.81
1	L	339	THR	N-CA-C	7.40	121.13	109.81
1	R	339	THR	N-CA-C	7.40	121.13	109.81
1	S	339	THR	N-CA-C	7.40	121.13	109.81
1	U	339	THR	N-CA-C	7.40	121.13	109.81
1	q	339	THR	N-CA-C	7.40	121.13	109.81
1	r	339	THR	N-CA-C	7.40	121.13	109.81
1	s	339	THR	N-CA-C	7.40	121.13	109.81
1	z	339	THR	N-CA-C	7.40	121.13	109.81
1	1	339	THR	N-CA-C	7.40	121.13	109.81
1	2	339	THR	N-CA-C	7.40	121.13	109.81
1	A	339	THR	N-CA-C	7.39	121.11	109.81
1	F	339	THR	N-CA-C	7.39	121.11	109.81
1	a	339	THR	N-CA-C	7.39	121.11	109.81
1	b	339	THR	N-CA-C	7.39	121.11	109.81
1	c	339	THR	N-CA-C	7.39	121.11	109.81
1	d	339	THR	N-CA-C	7.39	121.11	109.81
1	e	339	THR	N-CA-C	7.39	121.11	109.81
1	f	339	THR	N-CA-C	7.39	121.11	109.81
1	n	339	THR	N-CA-C	7.39	121.11	109.81
1	v	339	THR	N-CA-C	7.39	121.11	109.81
1	y	339	THR	N-CA-C	7.39	121.11	109.81
1	3	339	THR	N-CA-C	7.39	121.11	109.81
1	D	339	THR	N-CA-C	7.37	121.09	109.81
1	H	339	THR	N-CA-C	7.37	121.09	109.81
1	N	339	THR	N-CA-C	7.37	121.09	109.81
1	P	339	THR	N-CA-C	7.37	121.09	109.81
1	W	339	THR	N-CA-C	7.37	121.09	109.81
1	Y	339	THR	N-CA-C	7.37	121.09	109.81
1	i	339	THR	N-CA-C	7.37	121.09	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	339	THR	N-CA-C	7.37	121.09	109.81
1	k	339	THR	N-CA-C	7.37	121.09	109.81
1	5	339	THR	N-CA-C	7.37	121.09	109.81
1	6	339	THR	N-CA-C	7.37	121.09	109.81
1	7	339	THR	N-CA-C	7.37	121.09	109.81
1	B	483	TYR	N-CA-C	-6.92	97.24	108.52
1	J	483	TYR	N-CA-C	-6.92	97.24	108.52
1	L	483	TYR	N-CA-C	-6.92	97.24	108.52
1	R	483	TYR	N-CA-C	-6.92	97.24	108.52
1	S	483	TYR	N-CA-C	-6.92	97.24	108.52
1	U	483	TYR	N-CA-C	-6.92	97.24	108.52
1	q	483	TYR	N-CA-C	-6.92	97.24	108.52
1	r	483	TYR	N-CA-C	-6.92	97.24	108.52
1	s	483	TYR	N-CA-C	-6.92	97.24	108.52
1	z	483	TYR	N-CA-C	-6.92	97.24	108.52
1	1	483	TYR	N-CA-C	-6.92	97.24	108.52
1	2	483	TYR	N-CA-C	-6.92	97.24	108.52
1	A	483	TYR	N-CA-C	-6.90	97.28	108.52
1	F	483	TYR	N-CA-C	-6.90	97.28	108.52
1	a	483	TYR	N-CA-C	-6.90	97.28	108.52
1	b	483	TYR	N-CA-C	-6.90	97.28	108.52
1	c	483	TYR	N-CA-C	-6.90	97.28	108.52
1	d	483	TYR	N-CA-C	-6.90	97.28	108.52
1	e	483	TYR	N-CA-C	-6.90	97.28	108.52
1	f	483	TYR	N-CA-C	-6.90	97.28	108.52
1	n	483	TYR	N-CA-C	-6.90	97.28	108.52
1	v	483	TYR	N-CA-C	-6.90	97.28	108.52
1	y	483	TYR	N-CA-C	-6.90	97.28	108.52
1	3	483	TYR	N-CA-C	-6.90	97.28	108.52
1	D	483	TYR	N-CA-C	-6.89	97.28	108.52
1	H	483	TYR	N-CA-C	-6.89	97.28	108.52
1	N	483	TYR	N-CA-C	-6.89	97.28	108.52
1	P	483	TYR	N-CA-C	-6.89	97.28	108.52
1	W	483	TYR	N-CA-C	-6.89	97.28	108.52
1	Y	483	TYR	N-CA-C	-6.89	97.28	108.52
1	i	483	TYR	N-CA-C	-6.89	97.28	108.52
1	j	483	TYR	N-CA-C	-6.89	97.28	108.52
1	k	483	TYR	N-CA-C	-6.89	97.28	108.52
1	5	483	TYR	N-CA-C	-6.89	97.28	108.52
1	6	483	TYR	N-CA-C	-6.89	97.28	108.52
1	7	483	TYR	N-CA-C	-6.89	97.28	108.52
1	C	483	TYR	N-CA-C	-6.89	97.29	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	483	TYR	N-CA-C	-6.89	97.29	108.52
1	K	483	TYR	N-CA-C	-6.89	97.29	108.52
1	Q	483	TYR	N-CA-C	-6.89	97.29	108.52
1	T	483	TYR	N-CA-C	-6.89	97.29	108.52
1	V	483	TYR	N-CA-C	-6.89	97.29	108.52
1	g	483	TYR	N-CA-C	-6.89	97.29	108.52
1	m	483	TYR	N-CA-C	-6.89	97.29	108.52
1	p	483	TYR	N-CA-C	-6.89	97.29	108.52
1	u	483	TYR	N-CA-C	-6.89	97.29	108.52
1	x	483	TYR	N-CA-C	-6.89	97.29	108.52
1	4	483	TYR	N-CA-C	-6.89	97.29	108.52
1	E	483	TYR	N-CA-C	-6.88	97.31	108.52
1	G	483	TYR	N-CA-C	-6.88	97.31	108.52
1	M	483	TYR	N-CA-C	-6.88	97.31	108.52
1	O	483	TYR	N-CA-C	-6.88	97.31	108.52
1	X	483	TYR	N-CA-C	-6.88	97.31	108.52
1	Z	483	TYR	N-CA-C	-6.88	97.31	108.52
1	h	483	TYR	N-CA-C	-6.88	97.31	108.52
1	l	483	TYR	N-CA-C	-6.88	97.31	108.52
1	o	483	TYR	N-CA-C	-6.88	97.31	108.52
1	t	483	TYR	N-CA-C	-6.88	97.31	108.52
1	w	483	TYR	N-CA-C	-6.88	97.31	108.52
1	8	483	TYR	N-CA-C	-6.88	97.31	108.52
1	N	362	LEU	N-CA-C	-6.52	100.09	109.48
1	E	362	LEU	N-CA-C	-6.50	100.13	109.48
1	G	362	LEU	N-CA-C	-6.50	100.13	109.48
1	M	362	LEU	N-CA-C	-6.50	100.13	109.48
1	O	362	LEU	N-CA-C	-6.50	100.13	109.48
1	X	362	LEU	N-CA-C	-6.50	100.13	109.48
1	Z	362	LEU	N-CA-C	-6.50	100.13	109.48
1	h	362	LEU	N-CA-C	-6.50	100.13	109.48
1	l	362	LEU	N-CA-C	-6.50	100.13	109.48
1	o	362	LEU	N-CA-C	-6.50	100.13	109.48
1	t	362	LEU	N-CA-C	-6.50	100.13	109.48
1	w	362	LEU	N-CA-C	-6.50	100.13	109.48
1	8	362	LEU	N-CA-C	-6.50	100.13	109.48
1	A	362	LEU	N-CA-C	-6.49	100.14	109.48
1	B	362	LEU	N-CA-C	-6.49	100.13	109.48
1	D	362	LEU	N-CA-C	-6.49	100.13	109.48
1	F	362	LEU	N-CA-C	-6.49	100.14	109.48
1	H	362	LEU	N-CA-C	-6.49	100.13	109.48
1	J	362	LEU	N-CA-C	-6.49	100.13	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	362	LEU	N-CA-C	-6.49	100.13	109.48
1	P	362	LEU	N-CA-C	-6.49	100.13	109.48
1	R	362	LEU	N-CA-C	-6.49	100.13	109.48
1	S	362	LEU	N-CA-C	-6.49	100.13	109.48
1	U	362	LEU	N-CA-C	-6.49	100.13	109.48
1	W	362	LEU	N-CA-C	-6.49	100.13	109.48
1	Y	362	LEU	N-CA-C	-6.49	100.13	109.48
1	a	362	LEU	N-CA-C	-6.49	100.14	109.48
1	b	362	LEU	N-CA-C	-6.49	100.14	109.48
1	c	362	LEU	N-CA-C	-6.49	100.14	109.48
1	d	362	LEU	N-CA-C	-6.49	100.14	109.48
1	e	362	LEU	N-CA-C	-6.49	100.14	109.48
1	f	362	LEU	N-CA-C	-6.49	100.14	109.48
1	i	362	LEU	N-CA-C	-6.49	100.13	109.48
1	j	362	LEU	N-CA-C	-6.49	100.13	109.48
1	k	362	LEU	N-CA-C	-6.49	100.13	109.48
1	n	362	LEU	N-CA-C	-6.49	100.14	109.48
1	q	362	LEU	N-CA-C	-6.49	100.13	109.48
1	r	362	LEU	N-CA-C	-6.49	100.13	109.48
1	s	362	LEU	N-CA-C	-6.49	100.13	109.48
1	v	362	LEU	N-CA-C	-6.49	100.14	109.48
1	y	362	LEU	N-CA-C	-6.49	100.14	109.48
1	z	362	LEU	N-CA-C	-6.49	100.13	109.48
1	1	362	LEU	N-CA-C	-6.49	100.13	109.48
1	2	362	LEU	N-CA-C	-6.49	100.13	109.48
1	3	362	LEU	N-CA-C	-6.49	100.14	109.48
1	5	362	LEU	N-CA-C	-6.49	100.13	109.48
1	6	362	LEU	N-CA-C	-6.49	100.13	109.48
1	7	362	LEU	N-CA-C	-6.49	100.13	109.48
1	C	362	LEU	N-CA-C	-6.49	100.14	109.48
1	I	362	LEU	N-CA-C	-6.49	100.14	109.48
1	K	362	LEU	N-CA-C	-6.49	100.14	109.48
1	Q	362	LEU	N-CA-C	-6.49	100.14	109.48
1	T	362	LEU	N-CA-C	-6.49	100.14	109.48
1	V	362	LEU	N-CA-C	-6.49	100.14	109.48
1	g	362	LEU	N-CA-C	-6.49	100.14	109.48
1	m	362	LEU	N-CA-C	-6.49	100.14	109.48
1	p	362	LEU	N-CA-C	-6.49	100.14	109.48
1	u	362	LEU	N-CA-C	-6.49	100.14	109.48
1	x	362	LEU	N-CA-C	-6.49	100.14	109.48
1	4	362	LEU	N-CA-C	-6.49	100.14	109.48
1	A	337	THR	N-CA-C	6.46	118.32	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	337	THR	N-CA-C	6.46	118.32	111.28
1	a	337	THR	N-CA-C	6.46	118.32	111.28
1	b	337	THR	N-CA-C	6.46	118.32	111.28
1	c	337	THR	N-CA-C	6.46	118.32	111.28
1	d	337	THR	N-CA-C	6.46	118.32	111.28
1	e	337	THR	N-CA-C	6.46	118.32	111.28
1	f	337	THR	N-CA-C	6.46	118.32	111.28
1	n	337	THR	N-CA-C	6.46	118.32	111.28
1	v	337	THR	N-CA-C	6.46	118.32	111.28
1	y	337	THR	N-CA-C	6.46	118.32	111.28
1	3	337	THR	N-CA-C	6.46	118.32	111.28
1	D	337	THR	N-CA-C	6.45	118.31	111.28
1	H	337	THR	N-CA-C	6.45	118.31	111.28
1	N	337	THR	N-CA-C	6.45	118.31	111.28
1	P	337	THR	N-CA-C	6.45	118.31	111.28
1	W	337	THR	N-CA-C	6.45	118.31	111.28
1	Y	337	THR	N-CA-C	6.45	118.31	111.28
1	i	337	THR	N-CA-C	6.45	118.31	111.28
1	j	337	THR	N-CA-C	6.45	118.31	111.28
1	k	337	THR	N-CA-C	6.45	118.31	111.28
1	5	337	THR	N-CA-C	6.45	118.31	111.28
1	6	337	THR	N-CA-C	6.45	118.31	111.28
1	7	337	THR	N-CA-C	6.45	118.31	111.28
1	C	337	THR	N-CA-C	6.45	118.31	111.28
1	I	337	THR	N-CA-C	6.45	118.31	111.28
1	K	337	THR	N-CA-C	6.45	118.31	111.28
1	Q	337	THR	N-CA-C	6.45	118.31	111.28
1	T	337	THR	N-CA-C	6.45	118.31	111.28
1	V	337	THR	N-CA-C	6.45	118.31	111.28
1	g	337	THR	N-CA-C	6.45	118.31	111.28
1	m	337	THR	N-CA-C	6.45	118.31	111.28
1	p	337	THR	N-CA-C	6.45	118.31	111.28
1	u	337	THR	N-CA-C	6.45	118.31	111.28
1	x	337	THR	N-CA-C	6.45	118.31	111.28
1	4	337	THR	N-CA-C	6.45	118.31	111.28
1	E	337	THR	N-CA-C	6.45	118.31	111.28
1	G	337	THR	N-CA-C	6.45	118.31	111.28
1	M	337	THR	N-CA-C	6.45	118.31	111.28
1	O	337	THR	N-CA-C	6.45	118.31	111.28
1	X	337	THR	N-CA-C	6.45	118.31	111.28
1	Z	337	THR	N-CA-C	6.45	118.31	111.28
1	h	337	THR	N-CA-C	6.45	118.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	337	THR	N-CA-C	6.45	118.31	111.28
1	o	337	THR	N-CA-C	6.45	118.31	111.28
1	t	337	THR	N-CA-C	6.45	118.31	111.28
1	w	337	THR	N-CA-C	6.45	118.31	111.28
1	8	337	THR	N-CA-C	6.45	118.31	111.28
1	B	337	THR	N-CA-C	6.44	118.30	111.28
1	J	337	THR	N-CA-C	6.44	118.30	111.28
1	L	337	THR	N-CA-C	6.44	118.30	111.28
1	R	337	THR	N-CA-C	6.44	118.30	111.28
1	S	337	THR	N-CA-C	6.44	118.30	111.28
1	U	337	THR	N-CA-C	6.44	118.30	111.28
1	q	337	THR	N-CA-C	6.44	118.30	111.28
1	r	337	THR	N-CA-C	6.44	118.30	111.28
1	s	337	THR	N-CA-C	6.44	118.30	111.28
1	z	337	THR	N-CA-C	6.44	118.30	111.28
1	1	337	THR	N-CA-C	6.44	118.30	111.28
1	2	337	THR	N-CA-C	6.44	118.30	111.28
1	E	641	HIS	CA-C-N	6.24	126.80	120.38
1	E	641	HIS	C-N-CA	6.24	126.80	120.38
1	G	641	HIS	CA-C-N	6.24	126.80	120.38
1	G	641	HIS	C-N-CA	6.24	126.80	120.38
1	M	641	HIS	CA-C-N	6.24	126.80	120.38
1	M	641	HIS	C-N-CA	6.24	126.80	120.38
1	O	641	HIS	CA-C-N	6.24	126.80	120.38
1	O	641	HIS	C-N-CA	6.24	126.80	120.38
1	X	641	HIS	CA-C-N	6.24	126.80	120.38
1	X	641	HIS	C-N-CA	6.24	126.80	120.38
1	Z	641	HIS	CA-C-N	6.24	126.80	120.38
1	Z	641	HIS	C-N-CA	6.24	126.80	120.38
1	h	641	HIS	CA-C-N	6.24	126.80	120.38
1	h	641	HIS	C-N-CA	6.24	126.80	120.38
1	l	641	HIS	CA-C-N	6.24	126.80	120.38
1	l	641	HIS	C-N-CA	6.24	126.80	120.38
1	o	641	HIS	CA-C-N	6.24	126.80	120.38
1	o	641	HIS	C-N-CA	6.24	126.80	120.38
1	t	641	HIS	CA-C-N	6.24	126.80	120.38
1	t	641	HIS	C-N-CA	6.24	126.80	120.38
1	w	641	HIS	CA-C-N	6.24	126.80	120.38
1	w	641	HIS	C-N-CA	6.24	126.80	120.38
1	8	641	HIS	CA-C-N	6.24	126.80	120.38
1	8	641	HIS	C-N-CA	6.24	126.80	120.38
1	A	641	HIS	CA-C-N	6.22	126.79	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	641	HIS	C-N-CA	6.22	126.79	120.38
1	F	641	HIS	CA-C-N	6.22	126.79	120.38
1	F	641	HIS	C-N-CA	6.22	126.79	120.38
1	a	641	HIS	CA-C-N	6.22	126.79	120.38
1	a	641	HIS	C-N-CA	6.22	126.79	120.38
1	b	641	HIS	CA-C-N	6.22	126.79	120.38
1	b	641	HIS	C-N-CA	6.22	126.79	120.38
1	c	641	HIS	CA-C-N	6.22	126.79	120.38
1	c	641	HIS	C-N-CA	6.22	126.79	120.38
1	d	641	HIS	CA-C-N	6.22	126.79	120.38
1	d	641	HIS	C-N-CA	6.22	126.79	120.38
1	e	641	HIS	CA-C-N	6.22	126.79	120.38
1	e	641	HIS	C-N-CA	6.22	126.79	120.38
1	f	641	HIS	CA-C-N	6.22	126.79	120.38
1	f	641	HIS	C-N-CA	6.22	126.79	120.38
1	n	641	HIS	CA-C-N	6.22	126.79	120.38
1	n	641	HIS	C-N-CA	6.22	126.79	120.38
1	v	641	HIS	CA-C-N	6.22	126.79	120.38
1	v	641	HIS	C-N-CA	6.22	126.79	120.38
1	y	641	HIS	CA-C-N	6.22	126.79	120.38
1	y	641	HIS	C-N-CA	6.22	126.79	120.38
1	3	641	HIS	CA-C-N	6.22	126.79	120.38
1	3	641	HIS	C-N-CA	6.22	126.79	120.38
1	C	641	HIS	CA-C-N	6.22	126.79	120.38
1	C	641	HIS	C-N-CA	6.22	126.79	120.38
1	I	641	HIS	CA-C-N	6.22	126.79	120.38
1	I	641	HIS	C-N-CA	6.22	126.79	120.38
1	K	641	HIS	CA-C-N	6.22	126.79	120.38
1	K	641	HIS	C-N-CA	6.22	126.79	120.38
1	Q	641	HIS	CA-C-N	6.22	126.79	120.38
1	Q	641	HIS	C-N-CA	6.22	126.79	120.38
1	T	641	HIS	CA-C-N	6.22	126.79	120.38
1	T	641	HIS	C-N-CA	6.22	126.79	120.38
1	V	641	HIS	CA-C-N	6.22	126.79	120.38
1	V	641	HIS	C-N-CA	6.22	126.79	120.38
1	g	641	HIS	CA-C-N	6.22	126.79	120.38
1	g	641	HIS	C-N-CA	6.22	126.79	120.38
1	m	641	HIS	CA-C-N	6.22	126.79	120.38
1	m	641	HIS	C-N-CA	6.22	126.79	120.38
1	p	641	HIS	CA-C-N	6.22	126.79	120.38
1	p	641	HIS	C-N-CA	6.22	126.79	120.38
1	u	641	HIS	CA-C-N	6.22	126.79	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	641	HIS	C-N-CA	6.22	126.79	120.38
1	x	641	HIS	CA-C-N	6.22	126.79	120.38
1	x	641	HIS	C-N-CA	6.22	126.79	120.38
1	4	641	HIS	CA-C-N	6.22	126.79	120.38
1	4	641	HIS	C-N-CA	6.22	126.79	120.38
1	D	641	HIS	CA-C-N	6.21	126.77	120.38
1	D	641	HIS	C-N-CA	6.21	126.77	120.38
1	H	641	HIS	CA-C-N	6.21	126.77	120.38
1	H	641	HIS	C-N-CA	6.21	126.77	120.38
1	N	641	HIS	CA-C-N	6.21	126.77	120.38
1	N	641	HIS	C-N-CA	6.21	126.77	120.38
1	P	641	HIS	CA-C-N	6.21	126.77	120.38
1	P	641	HIS	C-N-CA	6.21	126.77	120.38
1	W	641	HIS	CA-C-N	6.21	126.77	120.38
1	W	641	HIS	C-N-CA	6.21	126.77	120.38
1	Y	641	HIS	CA-C-N	6.21	126.77	120.38
1	Y	641	HIS	C-N-CA	6.21	126.77	120.38
1	i	641	HIS	CA-C-N	6.21	126.77	120.38
1	i	641	HIS	C-N-CA	6.21	126.77	120.38
1	j	641	HIS	CA-C-N	6.21	126.77	120.38
1	j	641	HIS	C-N-CA	6.21	126.77	120.38
1	k	641	HIS	CA-C-N	6.21	126.77	120.38
1	k	641	HIS	C-N-CA	6.21	126.77	120.38
1	5	641	HIS	CA-C-N	6.21	126.77	120.38
1	5	641	HIS	C-N-CA	6.21	126.77	120.38
1	6	641	HIS	CA-C-N	6.21	126.77	120.38
1	6	641	HIS	C-N-CA	6.21	126.77	120.38
1	7	641	HIS	CA-C-N	6.21	126.77	120.38
1	7	641	HIS	C-N-CA	6.21	126.77	120.38
1	B	641	HIS	CA-C-N	6.20	126.77	120.38
1	B	641	HIS	C-N-CA	6.20	126.77	120.38
1	J	641	HIS	CA-C-N	6.20	126.77	120.38
1	J	641	HIS	C-N-CA	6.20	126.77	120.38
1	L	641	HIS	CA-C-N	6.20	126.77	120.38
1	L	641	HIS	C-N-CA	6.20	126.77	120.38
1	R	641	HIS	CA-C-N	6.20	126.77	120.38
1	R	641	HIS	C-N-CA	6.20	126.77	120.38
1	S	641	HIS	CA-C-N	6.20	126.77	120.38
1	S	641	HIS	C-N-CA	6.20	126.77	120.38
1	U	641	HIS	CA-C-N	6.20	126.77	120.38
1	U	641	HIS	C-N-CA	6.20	126.77	120.38
1	q	641	HIS	CA-C-N	6.20	126.77	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	641	HIS	C-N-CA	6.20	126.77	120.38
1	r	641	HIS	CA-C-N	6.20	126.77	120.38
1	r	641	HIS	C-N-CA	6.20	126.77	120.38
1	s	641	HIS	CA-C-N	6.20	126.77	120.38
1	s	641	HIS	C-N-CA	6.20	126.77	120.38
1	z	641	HIS	CA-C-N	6.20	126.77	120.38
1	z	641	HIS	C-N-CA	6.20	126.77	120.38
1	1	641	HIS	CA-C-N	6.20	126.77	120.38
1	1	641	HIS	C-N-CA	6.20	126.77	120.38
1	2	641	HIS	CA-C-N	6.20	126.77	120.38
1	2	641	HIS	C-N-CA	6.20	126.77	120.38
1	E	691	SER	N-CA-C	6.01	118.95	110.23
1	G	691	SER	N-CA-C	6.01	118.95	110.23
1	M	691	SER	N-CA-C	6.01	118.95	110.23
1	O	691	SER	N-CA-C	6.01	118.95	110.23
1	X	691	SER	N-CA-C	6.01	118.95	110.23
1	Z	691	SER	N-CA-C	6.01	118.95	110.23
1	h	691	SER	N-CA-C	6.01	118.95	110.23
1	l	691	SER	N-CA-C	6.01	118.95	110.23
1	o	691	SER	N-CA-C	6.01	118.95	110.23
1	t	691	SER	N-CA-C	6.01	118.95	110.23
1	w	691	SER	N-CA-C	6.01	118.95	110.23
1	8	691	SER	N-CA-C	6.01	118.95	110.23
1	A	691	SER	N-CA-C	6.00	118.92	110.23
1	F	691	SER	N-CA-C	6.00	118.92	110.23
1	a	691	SER	N-CA-C	6.00	118.92	110.23
1	b	691	SER	N-CA-C	6.00	118.92	110.23
1	c	691	SER	N-CA-C	6.00	118.92	110.23
1	d	691	SER	N-CA-C	6.00	118.92	110.23
1	e	691	SER	N-CA-C	6.00	118.92	110.23
1	f	691	SER	N-CA-C	6.00	118.92	110.23
1	n	691	SER	N-CA-C	6.00	118.92	110.23
1	v	691	SER	N-CA-C	6.00	118.92	110.23
1	y	691	SER	N-CA-C	6.00	118.92	110.23
1	3	691	SER	N-CA-C	6.00	118.92	110.23
1	C	691	SER	N-CA-C	5.99	118.92	110.23
1	I	691	SER	N-CA-C	5.99	118.92	110.23
1	K	691	SER	N-CA-C	5.99	118.92	110.23
1	Q	691	SER	N-CA-C	5.99	118.92	110.23
1	T	691	SER	N-CA-C	5.99	118.92	110.23
1	V	691	SER	N-CA-C	5.99	118.92	110.23
1	g	691	SER	N-CA-C	5.99	118.92	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	691	SER	N-CA-C	5.99	118.92	110.23
1	p	691	SER	N-CA-C	5.99	118.92	110.23
1	u	691	SER	N-CA-C	5.99	118.92	110.23
1	x	691	SER	N-CA-C	5.99	118.92	110.23
1	4	691	SER	N-CA-C	5.99	118.92	110.23
1	D	691	SER	N-CA-C	5.99	118.91	110.23
1	H	691	SER	N-CA-C	5.99	118.91	110.23
1	N	691	SER	N-CA-C	5.99	118.91	110.23
1	P	691	SER	N-CA-C	5.99	118.91	110.23
1	W	691	SER	N-CA-C	5.99	118.91	110.23
1	Y	691	SER	N-CA-C	5.99	118.91	110.23
1	i	691	SER	N-CA-C	5.99	118.91	110.23
1	j	691	SER	N-CA-C	5.99	118.91	110.23
1	k	691	SER	N-CA-C	5.99	118.91	110.23
1	5	691	SER	N-CA-C	5.99	118.91	110.23
1	6	691	SER	N-CA-C	5.99	118.91	110.23
1	7	691	SER	N-CA-C	5.99	118.91	110.23
1	B	691	SER	N-CA-C	5.97	118.89	110.23
1	J	691	SER	N-CA-C	5.97	118.89	110.23
1	L	691	SER	N-CA-C	5.97	118.89	110.23
1	R	691	SER	N-CA-C	5.97	118.89	110.23
1	S	691	SER	N-CA-C	5.97	118.89	110.23
1	U	691	SER	N-CA-C	5.97	118.89	110.23
1	q	691	SER	N-CA-C	5.97	118.89	110.23
1	r	691	SER	N-CA-C	5.97	118.89	110.23
1	s	691	SER	N-CA-C	5.97	118.89	110.23
1	z	691	SER	N-CA-C	5.97	118.89	110.23
1	1	691	SER	N-CA-C	5.97	118.89	110.23
1	2	691	SER	N-CA-C	5.97	118.89	110.23
1	B	363	PRO	CA-C-N	5.88	125.58	119.05
1	B	363	PRO	C-N-CA	5.88	125.58	119.05
1	C	363	PRO	CA-C-N	5.88	125.58	119.05
1	C	363	PRO	C-N-CA	5.88	125.58	119.05
1	J	363	PRO	CA-C-N	5.88	125.58	119.05
1	J	363	PRO	C-N-CA	5.88	125.58	119.05
1	K	363	PRO	CA-C-N	5.88	125.58	119.05
1	K	363	PRO	C-N-CA	5.88	125.58	119.05
1	L	363	PRO	CA-C-N	5.88	125.58	119.05
1	L	363	PRO	C-N-CA	5.88	125.58	119.05
1	Q	363	PRO	CA-C-N	5.88	125.58	119.05
1	Q	363	PRO	C-N-CA	5.88	125.58	119.05
1	R	363	PRO	CA-C-N	5.88	125.58	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	363	PRO	C-N-CA	5.88	125.58	119.05
1	S	363	PRO	CA-C-N	5.88	125.58	119.05
1	S	363	PRO	C-N-CA	5.88	125.58	119.05
1	T	363	PRO	CA-C-N	5.88	125.58	119.05
1	T	363	PRO	C-N-CA	5.88	125.58	119.05
1	U	363	PRO	CA-C-N	5.88	125.58	119.05
1	U	363	PRO	C-N-CA	5.88	125.58	119.05
1	V	363	PRO	CA-C-N	5.88	125.58	119.05
1	V	363	PRO	C-N-CA	5.88	125.58	119.05
1	g	363	PRO	CA-C-N	5.88	125.58	119.05
1	g	363	PRO	C-N-CA	5.88	125.58	119.05
1	m	363	PRO	CA-C-N	5.88	125.58	119.05
1	m	363	PRO	C-N-CA	5.88	125.58	119.05
1	p	363	PRO	CA-C-N	5.88	125.58	119.05
1	p	363	PRO	C-N-CA	5.88	125.58	119.05
1	q	363	PRO	CA-C-N	5.88	125.58	119.05
1	q	363	PRO	C-N-CA	5.88	125.58	119.05
1	r	363	PRO	CA-C-N	5.88	125.58	119.05
1	r	363	PRO	C-N-CA	5.88	125.58	119.05
1	s	363	PRO	CA-C-N	5.88	125.58	119.05
1	s	363	PRO	C-N-CA	5.88	125.58	119.05
1	u	363	PRO	CA-C-N	5.88	125.58	119.05
1	u	363	PRO	C-N-CA	5.88	125.58	119.05
1	x	363	PRO	CA-C-N	5.88	125.58	119.05
1	x	363	PRO	C-N-CA	5.88	125.58	119.05
1	z	363	PRO	CA-C-N	5.88	125.58	119.05
1	z	363	PRO	C-N-CA	5.88	125.58	119.05
1	1	363	PRO	CA-C-N	5.88	125.58	119.05
1	1	363	PRO	C-N-CA	5.88	125.58	119.05
1	2	363	PRO	CA-C-N	5.88	125.58	119.05
1	2	363	PRO	C-N-CA	5.88	125.58	119.05
1	4	363	PRO	CA-C-N	5.88	125.58	119.05
1	4	363	PRO	C-N-CA	5.88	125.58	119.05
1	D	363	PRO	CA-C-N	5.87	125.57	119.05
1	D	363	PRO	C-N-CA	5.87	125.57	119.05
1	H	363	PRO	CA-C-N	5.87	125.57	119.05
1	H	363	PRO	C-N-CA	5.87	125.57	119.05
1	N	363	PRO	CA-C-N	5.87	125.57	119.05
1	N	363	PRO	C-N-CA	5.87	125.57	119.05
1	P	363	PRO	CA-C-N	5.87	125.57	119.05
1	P	363	PRO	C-N-CA	5.87	125.57	119.05
1	W	363	PRO	CA-C-N	5.87	125.57	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	363	PRO	C-N-CA	5.87	125.57	119.05
1	Y	363	PRO	CA-C-N	5.87	125.57	119.05
1	Y	363	PRO	C-N-CA	5.87	125.57	119.05
1	i	363	PRO	CA-C-N	5.87	125.57	119.05
1	i	363	PRO	C-N-CA	5.87	125.57	119.05
1	j	363	PRO	CA-C-N	5.87	125.57	119.05
1	j	363	PRO	C-N-CA	5.87	125.57	119.05
1	k	363	PRO	CA-C-N	5.87	125.57	119.05
1	k	363	PRO	C-N-CA	5.87	125.57	119.05
1	5	363	PRO	CA-C-N	5.87	125.57	119.05
1	5	363	PRO	C-N-CA	5.87	125.57	119.05
1	6	363	PRO	CA-C-N	5.87	125.57	119.05
1	6	363	PRO	C-N-CA	5.87	125.57	119.05
1	7	363	PRO	CA-C-N	5.87	125.57	119.05
1	7	363	PRO	C-N-CA	5.87	125.57	119.05
1	I	363	PRO	CA-C-N	5.87	125.56	119.05
1	I	363	PRO	C-N-CA	5.87	125.56	119.05
1	A	363	PRO	CA-C-N	5.84	125.53	119.05
1	A	363	PRO	C-N-CA	5.84	125.53	119.05
1	F	363	PRO	CA-C-N	5.84	125.53	119.05
1	F	363	PRO	C-N-CA	5.84	125.53	119.05
1	a	363	PRO	CA-C-N	5.84	125.53	119.05
1	a	363	PRO	C-N-CA	5.84	125.53	119.05
1	b	363	PRO	CA-C-N	5.84	125.53	119.05
1	b	363	PRO	C-N-CA	5.84	125.53	119.05
1	c	363	PRO	CA-C-N	5.84	125.53	119.05
1	c	363	PRO	C-N-CA	5.84	125.53	119.05
1	d	363	PRO	CA-C-N	5.84	125.53	119.05
1	d	363	PRO	C-N-CA	5.84	125.53	119.05
1	e	363	PRO	CA-C-N	5.84	125.53	119.05
1	e	363	PRO	C-N-CA	5.84	125.53	119.05
1	f	363	PRO	CA-C-N	5.84	125.53	119.05
1	f	363	PRO	C-N-CA	5.84	125.53	119.05
1	n	363	PRO	CA-C-N	5.84	125.53	119.05
1	n	363	PRO	C-N-CA	5.84	125.53	119.05
1	v	363	PRO	CA-C-N	5.84	125.53	119.05
1	v	363	PRO	C-N-CA	5.84	125.53	119.05
1	y	363	PRO	CA-C-N	5.84	125.53	119.05
1	y	363	PRO	C-N-CA	5.84	125.53	119.05
1	3	363	PRO	CA-C-N	5.84	125.53	119.05
1	3	363	PRO	C-N-CA	5.84	125.53	119.05
1	E	363	PRO	CA-C-N	5.84	125.53	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	363	PRO	C-N-CA	5.84	125.53	119.05
1	G	363	PRO	CA-C-N	5.84	125.53	119.05
1	G	363	PRO	C-N-CA	5.84	125.53	119.05
1	M	363	PRO	CA-C-N	5.84	125.53	119.05
1	M	363	PRO	C-N-CA	5.84	125.53	119.05
1	O	363	PRO	CA-C-N	5.84	125.53	119.05
1	O	363	PRO	C-N-CA	5.84	125.53	119.05
1	X	363	PRO	CA-C-N	5.84	125.53	119.05
1	X	363	PRO	C-N-CA	5.84	125.53	119.05
1	Z	363	PRO	CA-C-N	5.84	125.53	119.05
1	Z	363	PRO	C-N-CA	5.84	125.53	119.05
1	h	363	PRO	CA-C-N	5.84	125.53	119.05
1	h	363	PRO	C-N-CA	5.84	125.53	119.05
1	l	363	PRO	CA-C-N	5.84	125.53	119.05
1	l	363	PRO	C-N-CA	5.84	125.53	119.05
1	o	363	PRO	CA-C-N	5.84	125.53	119.05
1	o	363	PRO	C-N-CA	5.84	125.53	119.05
1	t	363	PRO	CA-C-N	5.84	125.53	119.05
1	t	363	PRO	C-N-CA	5.84	125.53	119.05
1	w	363	PRO	CA-C-N	5.84	125.53	119.05
1	w	363	PRO	C-N-CA	5.84	125.53	119.05
1	8	363	PRO	CA-C-N	5.84	125.53	119.05
1	8	363	PRO	C-N-CA	5.84	125.53	119.05
1	B	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	J	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	L	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	R	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	S	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	U	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	q	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	r	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	s	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	z	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	1	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	2	481	PRO	CB-CA-C	-5.74	103.88	111.23
1	B	299	LEU	N-CA-C	5.73	117.33	111.14
1	J	299	LEU	N-CA-C	5.73	117.33	111.14
1	L	299	LEU	N-CA-C	5.73	117.33	111.14
1	R	299	LEU	N-CA-C	5.73	117.33	111.14
1	S	299	LEU	N-CA-C	5.73	117.33	111.14
1	U	299	LEU	N-CA-C	5.73	117.33	111.14
1	q	299	LEU	N-CA-C	5.73	117.33	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	299	LEU	N-CA-C	5.73	117.33	111.14
1	s	299	LEU	N-CA-C	5.73	117.33	111.14
1	z	299	LEU	N-CA-C	5.73	117.33	111.14
1	1	299	LEU	N-CA-C	5.73	117.33	111.14
1	2	299	LEU	N-CA-C	5.73	117.33	111.14
1	F	299	LEU	N-CA-C	5.73	117.33	111.14
1	E	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	G	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	M	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	O	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	X	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	Z	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	h	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	l	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	o	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	t	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	w	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	8	481	PRO	CB-CA-C	-5.73	103.90	111.23
1	D	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	H	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	N	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	P	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	W	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	Y	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	i	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	j	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	k	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	5	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	6	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	7	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	A	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	F	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	a	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	b	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	c	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	d	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	e	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	f	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	n	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	v	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	y	481	PRO	CB-CA-C	-5.72	103.91	111.23
1	3	481	PRO	CB-CA-C	-5.72	103.91	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	299	LEU	N-CA-C	5.71	117.31	111.14
1	G	299	LEU	N-CA-C	5.71	117.31	111.14
1	M	299	LEU	N-CA-C	5.71	117.31	111.14
1	O	299	LEU	N-CA-C	5.71	117.31	111.14
1	X	299	LEU	N-CA-C	5.71	117.31	111.14
1	Z	299	LEU	N-CA-C	5.71	117.31	111.14
1	h	299	LEU	N-CA-C	5.71	117.31	111.14
1	l	299	LEU	N-CA-C	5.71	117.31	111.14
1	o	299	LEU	N-CA-C	5.71	117.31	111.14
1	t	299	LEU	N-CA-C	5.71	117.31	111.14
1	w	299	LEU	N-CA-C	5.71	117.31	111.14
1	8	299	LEU	N-CA-C	5.71	117.31	111.14
1	C	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	I	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	K	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	Q	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	T	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	V	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	g	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	m	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	p	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	u	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	x	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	4	481	PRO	CB-CA-C	-5.71	103.93	111.23
1	A	299	LEU	N-CA-C	5.70	117.30	111.14
1	a	299	LEU	N-CA-C	5.70	117.30	111.14
1	c	299	LEU	N-CA-C	5.70	117.30	111.14
1	d	299	LEU	N-CA-C	5.70	117.30	111.14
1	e	299	LEU	N-CA-C	5.70	117.30	111.14
1	f	299	LEU	N-CA-C	5.70	117.30	111.14
1	n	299	LEU	N-CA-C	5.70	117.30	111.14
1	v	299	LEU	N-CA-C	5.70	117.30	111.14
1	y	299	LEU	N-CA-C	5.70	117.30	111.14
1	3	299	LEU	N-CA-C	5.70	117.30	111.14
1	b	299	LEU	N-CA-C	5.70	117.30	111.14
1	C	405	THR	N-CA-C	-5.70	102.60	110.35
1	I	405	THR	N-CA-C	-5.70	102.60	110.35
1	K	405	THR	N-CA-C	-5.70	102.60	110.35
1	Q	405	THR	N-CA-C	-5.70	102.60	110.35
1	T	405	THR	N-CA-C	-5.70	102.60	110.35
1	V	405	THR	N-CA-C	-5.70	102.60	110.35
1	g	405	THR	N-CA-C	-5.70	102.60	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	405	THR	N-CA-C	-5.70	102.60	110.35
1	p	405	THR	N-CA-C	-5.70	102.60	110.35
1	u	405	THR	N-CA-C	-5.70	102.60	110.35
1	x	405	THR	N-CA-C	-5.70	102.60	110.35
1	4	405	THR	N-CA-C	-5.70	102.60	110.35
1	E	405	THR	N-CA-C	-5.69	102.61	110.35
1	G	405	THR	N-CA-C	-5.69	102.61	110.35
1	M	405	THR	N-CA-C	-5.69	102.61	110.35
1	O	405	THR	N-CA-C	-5.69	102.61	110.35
1	X	405	THR	N-CA-C	-5.69	102.61	110.35
1	Z	405	THR	N-CA-C	-5.69	102.61	110.35
1	h	405	THR	N-CA-C	-5.69	102.61	110.35
1	l	405	THR	N-CA-C	-5.69	102.61	110.35
1	o	405	THR	N-CA-C	-5.69	102.61	110.35
1	t	405	THR	N-CA-C	-5.69	102.61	110.35
1	w	405	THR	N-CA-C	-5.69	102.61	110.35
1	8	405	THR	N-CA-C	-5.69	102.61	110.35
1	A	405	THR	N-CA-C	-5.69	102.62	110.35
1	C	299	LEU	N-CA-C	5.69	117.28	111.14
1	F	405	THR	N-CA-C	-5.69	102.62	110.35
1	I	299	LEU	N-CA-C	5.69	117.28	111.14
1	K	299	LEU	N-CA-C	5.69	117.28	111.14
1	Q	299	LEU	N-CA-C	5.69	117.28	111.14
1	T	299	LEU	N-CA-C	5.69	117.28	111.14
1	V	299	LEU	N-CA-C	5.69	117.28	111.14
1	a	405	THR	N-CA-C	-5.69	102.62	110.35
1	b	405	THR	N-CA-C	-5.69	102.62	110.35
1	c	405	THR	N-CA-C	-5.69	102.62	110.35
1	d	405	THR	N-CA-C	-5.69	102.62	110.35
1	e	405	THR	N-CA-C	-5.69	102.62	110.35
1	f	405	THR	N-CA-C	-5.69	102.62	110.35
1	g	299	LEU	N-CA-C	5.69	117.28	111.14
1	m	299	LEU	N-CA-C	5.69	117.28	111.14
1	n	405	THR	N-CA-C	-5.69	102.62	110.35
1	p	299	LEU	N-CA-C	5.69	117.28	111.14
1	u	299	LEU	N-CA-C	5.69	117.28	111.14
1	v	405	THR	N-CA-C	-5.69	102.62	110.35
1	x	299	LEU	N-CA-C	5.69	117.28	111.14
1	y	405	THR	N-CA-C	-5.69	102.62	110.35
1	3	405	THR	N-CA-C	-5.69	102.62	110.35
1	4	299	LEU	N-CA-C	5.69	117.28	111.14
1	B	405	THR	N-CA-C	-5.68	102.62	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	405	THR	N-CA-C	-5.68	102.62	110.35
1	L	405	THR	N-CA-C	-5.68	102.62	110.35
1	R	405	THR	N-CA-C	-5.68	102.62	110.35
1	S	405	THR	N-CA-C	-5.68	102.62	110.35
1	U	405	THR	N-CA-C	-5.68	102.62	110.35
1	q	405	THR	N-CA-C	-5.68	102.62	110.35
1	r	405	THR	N-CA-C	-5.68	102.62	110.35
1	s	405	THR	N-CA-C	-5.68	102.62	110.35
1	z	405	THR	N-CA-C	-5.68	102.62	110.35
1	1	405	THR	N-CA-C	-5.68	102.62	110.35
1	2	405	THR	N-CA-C	-5.68	102.62	110.35
1	D	405	THR	N-CA-C	-5.67	102.63	110.35
1	H	405	THR	N-CA-C	-5.67	102.63	110.35
1	N	405	THR	N-CA-C	-5.67	102.63	110.35
1	P	405	THR	N-CA-C	-5.67	102.63	110.35
1	W	405	THR	N-CA-C	-5.67	102.63	110.35
1	Y	405	THR	N-CA-C	-5.67	102.63	110.35
1	i	405	THR	N-CA-C	-5.67	102.63	110.35
1	j	405	THR	N-CA-C	-5.67	102.63	110.35
1	k	405	THR	N-CA-C	-5.67	102.63	110.35
1	5	405	THR	N-CA-C	-5.67	102.63	110.35
1	6	405	THR	N-CA-C	-5.67	102.63	110.35
1	7	405	THR	N-CA-C	-5.67	102.63	110.35
1	B	397	TYR	N-CA-C	-5.67	106.07	112.87
1	J	397	TYR	N-CA-C	-5.67	106.07	112.87
1	L	397	TYR	N-CA-C	-5.67	106.07	112.87
1	R	397	TYR	N-CA-C	-5.67	106.07	112.87
1	S	397	TYR	N-CA-C	-5.67	106.07	112.87
1	U	397	TYR	N-CA-C	-5.67	106.07	112.87
1	q	397	TYR	N-CA-C	-5.67	106.07	112.87
1	r	397	TYR	N-CA-C	-5.67	106.07	112.87
1	s	397	TYR	N-CA-C	-5.67	106.07	112.87
1	z	397	TYR	N-CA-C	-5.67	106.07	112.87
1	1	397	TYR	N-CA-C	-5.67	106.07	112.87
1	2	397	TYR	N-CA-C	-5.67	106.07	112.87
1	D	299	LEU	N-CA-C	5.66	117.25	111.14
1	H	299	LEU	N-CA-C	5.66	117.25	111.14
1	N	299	LEU	N-CA-C	5.66	117.25	111.14
1	P	299	LEU	N-CA-C	5.66	117.25	111.14
1	W	299	LEU	N-CA-C	5.66	117.25	111.14
1	Y	299	LEU	N-CA-C	5.66	117.25	111.14
1	i	299	LEU	N-CA-C	5.66	117.25	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	299	LEU	N-CA-C	5.66	117.25	111.14
1	k	299	LEU	N-CA-C	5.66	117.25	111.14
1	5	299	LEU	N-CA-C	5.66	117.25	111.14
1	6	299	LEU	N-CA-C	5.66	117.25	111.14
1	7	299	LEU	N-CA-C	5.66	117.25	111.14
1	C	397	TYR	N-CA-C	-5.64	106.10	112.87
1	I	397	TYR	N-CA-C	-5.64	106.10	112.87
1	K	397	TYR	N-CA-C	-5.64	106.10	112.87
1	Q	397	TYR	N-CA-C	-5.64	106.10	112.87
1	T	397	TYR	N-CA-C	-5.64	106.10	112.87
1	V	397	TYR	N-CA-C	-5.64	106.10	112.87
1	g	397	TYR	N-CA-C	-5.64	106.10	112.87
1	m	397	TYR	N-CA-C	-5.64	106.10	112.87
1	p	397	TYR	N-CA-C	-5.64	106.10	112.87
1	u	397	TYR	N-CA-C	-5.64	106.10	112.87
1	x	397	TYR	N-CA-C	-5.64	106.10	112.87
1	4	397	TYR	N-CA-C	-5.64	106.10	112.87
1	A	397	TYR	N-CA-C	-5.64	106.11	112.87
1	F	397	TYR	N-CA-C	-5.64	106.11	112.87
1	a	397	TYR	N-CA-C	-5.64	106.11	112.87
1	b	397	TYR	N-CA-C	-5.64	106.11	112.87
1	c	397	TYR	N-CA-C	-5.64	106.11	112.87
1	d	397	TYR	N-CA-C	-5.64	106.11	112.87
1	e	397	TYR	N-CA-C	-5.64	106.11	112.87
1	f	397	TYR	N-CA-C	-5.64	106.11	112.87
1	n	397	TYR	N-CA-C	-5.64	106.11	112.87
1	v	397	TYR	N-CA-C	-5.64	106.11	112.87
1	y	397	TYR	N-CA-C	-5.64	106.11	112.87
1	3	397	TYR	N-CA-C	-5.64	106.11	112.87
1	D	397	TYR	N-CA-C	-5.63	106.11	112.87
1	H	397	TYR	N-CA-C	-5.63	106.11	112.87
1	N	397	TYR	N-CA-C	-5.63	106.11	112.87
1	P	397	TYR	N-CA-C	-5.63	106.11	112.87
1	W	397	TYR	N-CA-C	-5.63	106.11	112.87
1	Y	397	TYR	N-CA-C	-5.63	106.11	112.87
1	i	397	TYR	N-CA-C	-5.63	106.11	112.87
1	j	397	TYR	N-CA-C	-5.63	106.11	112.87
1	k	397	TYR	N-CA-C	-5.63	106.11	112.87
1	5	397	TYR	N-CA-C	-5.63	106.11	112.87
1	6	397	TYR	N-CA-C	-5.63	106.11	112.87
1	7	397	TYR	N-CA-C	-5.63	106.11	112.87
1	E	397	TYR	N-CA-C	-5.62	106.12	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	397	TYR	N-CA-C	-5.62	106.12	112.87
1	M	397	TYR	N-CA-C	-5.62	106.12	112.87
1	O	397	TYR	N-CA-C	-5.62	106.12	112.87
1	X	397	TYR	N-CA-C	-5.62	106.12	112.87
1	Z	397	TYR	N-CA-C	-5.62	106.12	112.87
1	h	397	TYR	N-CA-C	-5.62	106.12	112.87
1	l	397	TYR	N-CA-C	-5.62	106.12	112.87
1	o	397	TYR	N-CA-C	-5.62	106.12	112.87
1	t	397	TYR	N-CA-C	-5.62	106.12	112.87
1	w	397	TYR	N-CA-C	-5.62	106.12	112.87
1	8	397	TYR	N-CA-C	-5.62	106.12	112.87
1	D	631	SER	N-CA-C	-5.58	100.47	109.40
1	H	631	SER	N-CA-C	-5.58	100.47	109.40
1	N	631	SER	N-CA-C	-5.58	100.47	109.40
1	P	631	SER	N-CA-C	-5.58	100.47	109.40
1	W	631	SER	N-CA-C	-5.58	100.47	109.40
1	Y	631	SER	N-CA-C	-5.58	100.47	109.40
1	i	631	SER	N-CA-C	-5.58	100.47	109.40
1	j	631	SER	N-CA-C	-5.58	100.47	109.40
1	k	631	SER	N-CA-C	-5.58	100.47	109.40
1	5	631	SER	N-CA-C	-5.58	100.47	109.40
1	6	631	SER	N-CA-C	-5.58	100.47	109.40
1	7	631	SER	N-CA-C	-5.58	100.47	109.40
1	I	631	SER	N-CA-C	-5.58	100.47	109.40
1	A	631	SER	N-CA-C	-5.58	100.48	109.40
1	F	631	SER	N-CA-C	-5.58	100.48	109.40
1	a	631	SER	N-CA-C	-5.58	100.48	109.40
1	b	631	SER	N-CA-C	-5.58	100.48	109.40
1	c	631	SER	N-CA-C	-5.58	100.48	109.40
1	d	631	SER	N-CA-C	-5.58	100.48	109.40
1	e	631	SER	N-CA-C	-5.58	100.48	109.40
1	f	631	SER	N-CA-C	-5.58	100.48	109.40
1	n	631	SER	N-CA-C	-5.58	100.48	109.40
1	v	631	SER	N-CA-C	-5.58	100.48	109.40
1	y	631	SER	N-CA-C	-5.58	100.48	109.40
1	3	631	SER	N-CA-C	-5.58	100.48	109.40
1	E	631	SER	N-CA-C	-5.56	100.50	109.40
1	G	631	SER	N-CA-C	-5.56	100.50	109.40
1	M	631	SER	N-CA-C	-5.56	100.50	109.40
1	O	631	SER	N-CA-C	-5.56	100.50	109.40
1	X	631	SER	N-CA-C	-5.56	100.50	109.40
1	Z	631	SER	N-CA-C	-5.56	100.50	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	631	SER	N-CA-C	-5.56	100.50	109.40
1	l	631	SER	N-CA-C	-5.56	100.50	109.40
1	o	631	SER	N-CA-C	-5.56	100.50	109.40
1	t	631	SER	N-CA-C	-5.56	100.50	109.40
1	w	631	SER	N-CA-C	-5.56	100.50	109.40
1	8	631	SER	N-CA-C	-5.56	100.50	109.40
1	C	631	SER	N-CA-C	-5.56	100.50	109.40
1	K	631	SER	N-CA-C	-5.56	100.50	109.40
1	Q	631	SER	N-CA-C	-5.56	100.50	109.40
1	T	631	SER	N-CA-C	-5.56	100.50	109.40
1	V	631	SER	N-CA-C	-5.56	100.50	109.40
1	g	631	SER	N-CA-C	-5.56	100.50	109.40
1	m	631	SER	N-CA-C	-5.56	100.50	109.40
1	p	631	SER	N-CA-C	-5.56	100.50	109.40
1	u	631	SER	N-CA-C	-5.56	100.50	109.40
1	x	631	SER	N-CA-C	-5.56	100.50	109.40
1	4	631	SER	N-CA-C	-5.56	100.50	109.40
1	B	631	SER	N-CA-C	-5.55	100.52	109.40
1	J	631	SER	N-CA-C	-5.55	100.52	109.40
1	L	631	SER	N-CA-C	-5.55	100.52	109.40
1	R	631	SER	N-CA-C	-5.55	100.52	109.40
1	S	631	SER	N-CA-C	-5.55	100.52	109.40
1	U	631	SER	N-CA-C	-5.55	100.52	109.40
1	q	631	SER	N-CA-C	-5.55	100.52	109.40
1	r	631	SER	N-CA-C	-5.55	100.52	109.40
1	s	631	SER	N-CA-C	-5.55	100.52	109.40
1	z	631	SER	N-CA-C	-5.55	100.52	109.40
1	1	631	SER	N-CA-C	-5.55	100.52	109.40
1	2	631	SER	N-CA-C	-5.55	100.52	109.40
1	A	472	ASP	N-CA-C	5.45	119.91	113.16
1	E	472	ASP	N-CA-C	5.44	119.90	113.16
1	G	472	ASP	N-CA-C	5.44	119.90	113.16
1	M	472	ASP	N-CA-C	5.44	119.90	113.16
1	O	472	ASP	N-CA-C	5.44	119.90	113.16
1	X	472	ASP	N-CA-C	5.44	119.90	113.16
1	Z	472	ASP	N-CA-C	5.44	119.90	113.16
1	h	472	ASP	N-CA-C	5.44	119.90	113.16
1	l	472	ASP	N-CA-C	5.44	119.90	113.16
1	o	472	ASP	N-CA-C	5.44	119.90	113.16
1	t	472	ASP	N-CA-C	5.44	119.90	113.16
1	w	472	ASP	N-CA-C	5.44	119.90	113.16
1	8	472	ASP	N-CA-C	5.44	119.90	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	472	ASP	N-CA-C	5.42	119.88	113.16
1	a	472	ASP	N-CA-C	5.42	119.88	113.16
1	b	472	ASP	N-CA-C	5.42	119.88	113.16
1	c	472	ASP	N-CA-C	5.42	119.88	113.16
1	d	472	ASP	N-CA-C	5.42	119.88	113.16
1	e	472	ASP	N-CA-C	5.42	119.88	113.16
1	f	472	ASP	N-CA-C	5.42	119.88	113.16
1	n	472	ASP	N-CA-C	5.42	119.88	113.16
1	v	472	ASP	N-CA-C	5.42	119.88	113.16
1	y	472	ASP	N-CA-C	5.42	119.88	113.16
1	3	472	ASP	N-CA-C	5.42	119.88	113.16
1	B	472	ASP	N-CA-C	5.41	119.86	113.16
1	J	472	ASP	N-CA-C	5.41	119.86	113.16
1	L	472	ASP	N-CA-C	5.41	119.86	113.16
1	R	472	ASP	N-CA-C	5.41	119.86	113.16
1	S	472	ASP	N-CA-C	5.41	119.86	113.16
1	U	472	ASP	N-CA-C	5.41	119.86	113.16
1	q	472	ASP	N-CA-C	5.41	119.86	113.16
1	r	472	ASP	N-CA-C	5.41	119.86	113.16
1	s	472	ASP	N-CA-C	5.41	119.86	113.16
1	z	472	ASP	N-CA-C	5.41	119.86	113.16
1	1	472	ASP	N-CA-C	5.41	119.86	113.16
1	2	472	ASP	N-CA-C	5.41	119.86	113.16
1	C	472	ASP	N-CA-C	5.39	119.84	113.16
1	I	472	ASP	N-CA-C	5.39	119.84	113.16
1	K	472	ASP	N-CA-C	5.39	119.84	113.16
1	Q	472	ASP	N-CA-C	5.39	119.84	113.16
1	T	472	ASP	N-CA-C	5.39	119.84	113.16
1	V	472	ASP	N-CA-C	5.39	119.84	113.16
1	g	472	ASP	N-CA-C	5.39	119.84	113.16
1	m	472	ASP	N-CA-C	5.39	119.84	113.16
1	p	472	ASP	N-CA-C	5.39	119.84	113.16
1	u	472	ASP	N-CA-C	5.39	119.84	113.16
1	x	472	ASP	N-CA-C	5.39	119.84	113.16
1	4	472	ASP	N-CA-C	5.39	119.84	113.16
1	D	472	ASP	N-CA-C	5.37	119.82	113.16
1	H	472	ASP	N-CA-C	5.37	119.82	113.16
1	N	472	ASP	N-CA-C	5.37	119.82	113.16
1	P	472	ASP	N-CA-C	5.37	119.82	113.16
1	W	472	ASP	N-CA-C	5.37	119.82	113.16
1	Y	472	ASP	N-CA-C	5.37	119.82	113.16
1	i	472	ASP	N-CA-C	5.37	119.82	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	472	ASP	N-CA-C	5.37	119.82	113.16
1	k	472	ASP	N-CA-C	5.37	119.82	113.16
1	5	472	ASP	N-CA-C	5.37	119.82	113.16
1	6	472	ASP	N-CA-C	5.37	119.82	113.16
1	7	472	ASP	N-CA-C	5.37	119.82	113.16
1	A	507	LYS	N-CA-C	5.11	116.95	109.24
1	C	507	LYS	N-CA-C	5.11	116.95	109.24
1	D	507	LYS	N-CA-C	5.11	116.95	109.24
1	F	507	LYS	N-CA-C	5.11	116.95	109.24
1	H	507	LYS	N-CA-C	5.11	116.95	109.24
1	I	507	LYS	N-CA-C	5.11	116.95	109.24
1	K	507	LYS	N-CA-C	5.11	116.95	109.24
1	N	507	LYS	N-CA-C	5.11	116.95	109.24
1	P	507	LYS	N-CA-C	5.11	116.95	109.24
1	Q	507	LYS	N-CA-C	5.11	116.95	109.24
1	T	507	LYS	N-CA-C	5.11	116.95	109.24
1	V	507	LYS	N-CA-C	5.11	116.95	109.24
1	W	507	LYS	N-CA-C	5.11	116.95	109.24
1	Y	507	LYS	N-CA-C	5.11	116.95	109.24
1	a	507	LYS	N-CA-C	5.11	116.95	109.24
1	b	507	LYS	N-CA-C	5.11	116.95	109.24
1	c	507	LYS	N-CA-C	5.11	116.95	109.24
1	d	507	LYS	N-CA-C	5.11	116.95	109.24
1	e	507	LYS	N-CA-C	5.11	116.95	109.24
1	f	507	LYS	N-CA-C	5.11	116.95	109.24
1	g	507	LYS	N-CA-C	5.11	116.95	109.24
1	i	507	LYS	N-CA-C	5.11	116.95	109.24
1	j	507	LYS	N-CA-C	5.11	116.95	109.24
1	k	507	LYS	N-CA-C	5.11	116.95	109.24
1	m	507	LYS	N-CA-C	5.11	116.95	109.24
1	n	507	LYS	N-CA-C	5.11	116.95	109.24
1	p	507	LYS	N-CA-C	5.11	116.95	109.24
1	u	507	LYS	N-CA-C	5.11	116.95	109.24
1	v	507	LYS	N-CA-C	5.11	116.95	109.24
1	x	507	LYS	N-CA-C	5.11	116.95	109.24
1	y	507	LYS	N-CA-C	5.11	116.95	109.24
1	3	507	LYS	N-CA-C	5.11	116.95	109.24
1	4	507	LYS	N-CA-C	5.11	116.95	109.24
1	5	507	LYS	N-CA-C	5.11	116.95	109.24
1	6	507	LYS	N-CA-C	5.11	116.95	109.24
1	7	507	LYS	N-CA-C	5.11	116.95	109.24
1	B	507	LYS	N-CA-C	5.10	116.94	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	507	LYS	N-CA-C	5.10	116.94	109.24
1	L	507	LYS	N-CA-C	5.10	116.94	109.24
1	R	507	LYS	N-CA-C	5.10	116.94	109.24
1	S	507	LYS	N-CA-C	5.10	116.94	109.24
1	U	507	LYS	N-CA-C	5.10	116.94	109.24
1	q	507	LYS	N-CA-C	5.10	116.94	109.24
1	r	507	LYS	N-CA-C	5.10	116.94	109.24
1	s	507	LYS	N-CA-C	5.10	116.94	109.24
1	z	507	LYS	N-CA-C	5.10	116.94	109.24
1	1	507	LYS	N-CA-C	5.10	116.94	109.24
1	2	507	LYS	N-CA-C	5.10	116.94	109.24
1	E	507	LYS	N-CA-C	5.08	116.90	109.24
1	G	507	LYS	N-CA-C	5.08	116.90	109.24
1	M	507	LYS	N-CA-C	5.08	116.90	109.24
1	O	507	LYS	N-CA-C	5.08	116.90	109.24
1	X	507	LYS	N-CA-C	5.08	116.90	109.24
1	Z	507	LYS	N-CA-C	5.08	116.90	109.24
1	h	507	LYS	N-CA-C	5.08	116.90	109.24
1	l	507	LYS	N-CA-C	5.08	116.90	109.24
1	o	507	LYS	N-CA-C	5.08	116.90	109.24
1	t	507	LYS	N-CA-C	5.08	116.90	109.24
1	w	507	LYS	N-CA-C	5.08	116.90	109.24
1	8	507	LYS	N-CA-C	5.08	116.90	109.24

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4143	0	3896	202	0
1	2	4143	0	3896	200	0
1	3	4143	0	3896	200	0
1	4	4143	0	3896	201	0
1	5	4143	0	3896	201	0
1	6	4143	0	3896	202	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	7	4143	0	3896	200	0
1	8	4143	0	3896	197	0
1	A	4143	0	3896	201	0
1	B	4143	0	3896	201	0
1	C	4143	0	3896	198	0
1	D	4143	0	3896	200	0
1	E	4143	0	3896	197	0
1	F	4143	0	3896	200	0
1	G	4143	0	3896	204	0
1	H	4143	0	3896	201	0
1	I	4143	0	3896	193	0
1	J	4143	0	3896	200	0
1	K	4143	0	3896	201	0
1	L	4143	0	3896	201	0
1	M	4143	0	3896	199	0
1	N	4143	0	3896	199	0
1	O	4143	0	3896	199	0
1	P	4143	0	3896	199	0
1	Q	4143	0	3896	194	0
1	R	4143	0	3896	195	0
1	S	4143	0	3896	199	0
1	T	4143	0	3896	202	0
1	U	4143	0	3896	197	0
1	V	4143	0	3896	200	0
1	W	4143	0	3896	200	0
1	X	4143	0	3896	198	0
1	Y	4143	0	3896	200	0
1	Z	4143	0	3896	198	0
1	a	4143	0	3896	201	0
1	b	4143	0	3896	199	0
1	c	4143	0	3896	198	0
1	d	4143	0	3896	196	0
1	e	4143	0	3896	197	0
1	f	4143	0	3896	199	0
1	g	4143	0	3896	200	0
1	h	4143	0	3896	198	0
1	i	4143	0	3896	201	0
1	j	4143	0	3896	200	0
1	k	4143	0	3896	198	0
1	l	4143	0	3896	199	0
1	m	4143	0	3896	202	0
1	n	4143	0	3896	197	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	o	4143	0	3896	197	0
1	p	4143	0	3896	199	0
1	q	4143	0	3896	197	0
1	r	4143	0	3896	200	0
1	s	4143	0	3896	196	0
1	t	4143	0	3896	201	0
1	u	4143	0	3896	192	0
1	v	4143	0	3896	203	0
1	w	4143	0	3896	199	0
1	x	4143	0	3896	195	0
1	y	4143	0	3896	201	0
1	z	4143	0	3896	199	0
All	All	248580	0	233760	10185	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 21.

All (10185) 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:G:242:THR:HG22	1:G:681:GLU:HG3	1.40	1.04
1:f:242:THR:HG22	1:f:681:GLU:HG3	1.40	1.04
1:t:242:THR:HG22	1:t:681:GLU:HG3	1.40	1.04
1:J:242:THR:HG22	1:J:681:GLU:HG3	1.40	1.04
1:b:242:THR:HG22	1:b:681:GLU:HG3	1.40	1.04
1:2:242:THR:HG22	1:2:681:GLU:HG3	1.40	1.04
1:Y:242:THR:HG22	1:Y:681:GLU:HG3	1.40	1.04
1:D:242:THR:HG22	1:D:681:GLU:HG3	1.40	1.03
1:L:242:THR:HG22	1:L:681:GLU:HG3	1.40	1.03
1:O:242:THR:HG22	1:O:681:GLU:HG3	1.40	1.03
1:e:242:THR:HG22	1:e:681:GLU:HG3	1.40	1.03
1:k:242:THR:HG22	1:k:681:GLU:HG3	1.40	1.03
1:z:242:THR:HG22	1:z:681:GLU:HG3	1.40	1.03
1:6:242:THR:HG22	1:6:681:GLU:HG3	1.40	1.03
1:7:242:THR:HG22	1:7:681:GLU:HG3	1.40	1.03
1:S:242:THR:HG22	1:S:681:GLU:HG3	1.40	1.03
1:U:242:THR:HG22	1:U:681:GLU:HG3	1.40	1.03
1:W:242:THR:HG22	1:W:681:GLU:HG3	1.40	1.03
1:c:242:THR:HG22	1:c:681:GLU:HG3	1.40	1.03
1:l:242:THR:HG22	1:l:681:GLU:HG3	1.40	1.03
1:m:242:THR:HG22	1:m:681:GLU:HG3	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:242:THR:HG22	1:s:681:GLU:HG3	1.40	1.03
1:C:242:THR:HG22	1:C:681:GLU:HG3	1.40	1.03
1:T:242:THR:HG22	1:T:681:GLU:HG3	1.40	1.03
1:r:242:THR:HG22	1:r:681:GLU:HG3	1.40	1.03
1:g:242:THR:HG22	1:g:681:GLU:HG3	1.40	1.03
1:T:483:TYR:O	1:T:523:MET:HE1	1.59	1.02
1:V:483:TYR:O	1:V:523:MET:HE1	1.59	1.02
1:a:483:TYR:O	1:a:523:MET:HE1	1.59	1.02
1:p:483:TYR:O	1:p:523:MET:HE1	1.59	1.02
1:L:483:TYR:O	1:L:523:MET:HE1	1.59	1.02
1:d:483:TYR:O	1:d:523:MET:HE1	1.59	1.02
1:h:483:TYR:O	1:h:523:MET:HE1	1.59	1.02
1:m:483:TYR:O	1:m:523:MET:HE1	1.59	1.02
1:z:483:TYR:O	1:z:523:MET:HE1	1.59	1.02
1:3:483:TYR:O	1:3:523:MET:HE1	1.59	1.02
1:M:483:TYR:O	1:M:523:MET:HE1	1.59	1.02
1:P:483:TYR:O	1:P:523:MET:HE1	1.59	1.02
1:Y:483:TYR:O	1:Y:523:MET:HE1	1.59	1.02
1:i:242:THR:HG22	1:i:681:GLU:HG3	1.40	1.02
1:w:483:TYR:O	1:w:523:MET:HE1	1.59	1.02
1:7:483:TYR:O	1:7:523:MET:HE1	1.59	1.02
1:E:483:TYR:O	1:E:523:MET:HE1	1.59	1.02
1:N:242:THR:HG22	1:N:681:GLU:HG3	1.40	1.02
1:S:483:TYR:O	1:S:523:MET:HE1	1.59	1.02
1:h:242:THR:HG22	1:h:681:GLU:HG3	1.40	1.02
1:j:483:TYR:O	1:j:523:MET:HE1	1.59	1.02
1:n:483:TYR:O	1:n:523:MET:HE1	1.59	1.02
1:r:483:TYR:O	1:r:523:MET:HE1	1.59	1.02
1:s:483:TYR:O	1:s:523:MET:HE1	1.59	1.02
1:x:483:TYR:O	1:x:523:MET:HE1	1.59	1.02
1:M:242:THR:HG22	1:M:681:GLU:HG3	1.40	1.02
1:U:483:TYR:O	1:U:523:MET:HE1	1.59	1.02
1:C:483:TYR:O	1:C:523:MET:HE1	1.59	1.01
1:E:242:THR:HG22	1:E:681:GLU:HG3	1.40	1.01
1:I:483:TYR:O	1:I:523:MET:HE1	1.59	1.01
1:Q:242:THR:HG22	1:Q:681:GLU:HG3	1.40	1.01
1:Q:483:TYR:O	1:Q:523:MET:HE1	1.59	1.01
1:b:483:TYR:O	1:b:523:MET:HE1	1.59	1.01
1:j:242:THR:HG22	1:j:681:GLU:HG3	1.40	1.01
1:n:242:THR:HG22	1:n:681:GLU:HG3	1.40	1.01
1:u:483:TYR:O	1:u:523:MET:HE1	1.59	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:242:THR:HG22	1:5:681:GLU:HG3	1.40	1.01
1:H:242:THR:HG22	1:H:681:GLU:HG3	1.40	1.01
1:I:242:THR:HG22	1:I:681:GLU:HG3	1.40	1.01
1:f:483:TYR:O	1:f:523:MET:HE1	1.59	1.01
1:g:483:TYR:O	1:g:523:MET:HE1	1.59	1.01
1:t:483:TYR:O	1:t:523:MET:HE1	1.59	1.01
1:w:242:THR:HG22	1:w:681:GLU:HG3	1.40	1.01
1:G:483:TYR:O	1:G:523:MET:HE1	1.59	1.01
1:O:483:TYR:O	1:O:523:MET:HE1	1.59	1.01
1:P:242:THR:HG22	1:P:681:GLU:HG3	1.40	1.01
1:V:242:THR:HG22	1:V:681:GLU:HG3	1.40	1.01
1:d:242:THR:HG22	1:d:681:GLU:HG3	1.40	1.01
1:e:483:TYR:O	1:e:523:MET:HE1	1.59	1.01
1:o:483:TYR:O	1:o:523:MET:HE1	1.59	1.01
1:p:242:THR:HG22	1:p:681:GLU:HG3	1.40	1.01
1:u:242:THR:HG22	1:u:681:GLU:HG3	1.40	1.01
1:x:242:THR:HG22	1:x:681:GLU:HG3	1.40	1.01
1:D:483:TYR:O	1:D:523:MET:HE1	1.59	1.01
1:X:483:TYR:O	1:X:523:MET:HE1	1.59	1.01
1:A:483:TYR:O	1:A:523:MET:HE1	1.59	1.01
1:c:483:TYR:O	1:c:523:MET:HE1	1.59	1.01
1:k:483:TYR:O	1:k:523:MET:HE1	1.59	1.01
1:l:483:TYR:O	1:l:523:MET:HE1	1.59	1.01
1:R:483:TYR:O	1:R:523:MET:HE1	1.59	1.00
1:Z:483:TYR:O	1:Z:523:MET:HE1	1.59	1.00
1:o:242:THR:HG22	1:o:681:GLU:HG3	1.40	1.00
1:q:242:THR:HG22	1:q:681:GLU:HG3	1.40	1.00
1:q:483:TYR:O	1:q:523:MET:HE1	1.59	1.00
1:v:483:TYR:O	1:v:523:MET:HE1	1.59	1.00
1:2:483:TYR:O	1:2:523:MET:HE1	1.59	1.00
1:6:483:TYR:O	1:6:523:MET:HE1	1.59	1.00
1:8:483:TYR:O	1:8:523:MET:HE1	1.59	1.00
1:J:483:TYR:O	1:J:523:MET:HE1	1.59	1.00
1:N:483:TYR:O	1:N:523:MET:HE1	1.59	1.00
1:W:483:TYR:O	1:W:523:MET:HE1	1.59	1.00
1:B:483:TYR:O	1:B:523:MET:HE1	1.59	1.00
1:F:242:THR:HG22	1:F:681:GLU:HG3	1.40	1.00
1:R:242:THR:HG22	1:R:681:GLU:HG3	1.40	1.00
1:X:242:THR:HG22	1:X:681:GLU:HG3	1.40	1.00
1:i:483:TYR:O	1:i:523:MET:HE1	1.59	1.00
1:A:242:THR:HG22	1:A:681:GLU:HG3	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:483:TYR:O	1:5:523:MET:HE1	1.59	1.00
1:F:483:TYR:O	1:F:523:MET:HE1	1.59	1.00
1:1:483:TYR:O	1:1:523:MET:HE1	1.59	1.00
1:H:483:TYR:O	1:H:523:MET:HE1	1.59	1.00
1:v:242:THR:HG22	1:v:681:GLU:HG3	1.40	1.00
1:y:242:THR:HG22	1:y:681:GLU:HG3	1.40	1.00
1:4:483:TYR:O	1:4:523:MET:HE1	1.59	1.00
1:K:483:TYR:O	1:K:523:MET:HE1	1.59	0.99
1:y:483:TYR:O	1:y:523:MET:HE1	1.59	0.99
1:4:242:THR:HG22	1:4:681:GLU:HG3	1.40	0.99
1:3:242:THR:HG22	1:3:681:GLU:HG3	1.40	0.99
1:K:242:THR:HG22	1:K:681:GLU:HG3	1.40	0.99
1:a:242:THR:HG22	1:a:681:GLU:HG3	1.40	0.99
1:1:242:THR:HG22	1:1:681:GLU:HG3	1.40	0.99
1:B:242:THR:HG22	1:B:681:GLU:HG3	1.40	0.99
1:Z:242:THR:HG22	1:Z:681:GLU:HG3	1.40	0.99
1:8:242:THR:HG22	1:8:681:GLU:HG3	1.40	0.98
1:H:242:THR:HG22	1:H:681:GLU:CG	1.98	0.94
1:5:242:THR:HG22	1:5:681:GLU:CG	1.98	0.94
1:A:242:THR:HG22	1:A:681:GLU:CG	1.98	0.94
1:v:242:THR:HG22	1:v:681:GLU:CG	1.98	0.94
1:b:242:THR:HG22	1:b:681:GLU:CG	1.98	0.94
1:f:242:THR:HG22	1:f:681:GLU:CG	1.98	0.94
1:D:242:THR:HG22	1:D:681:GLU:CG	1.98	0.94
1:L:242:THR:HG22	1:L:681:GLU:CG	1.98	0.94
1:S:242:THR:HG22	1:S:681:GLU:CG	1.98	0.94
1:Z:242:THR:HG22	1:Z:681:GLU:CG	1.98	0.94
1:k:242:THR:HG22	1:k:681:GLU:CG	1.98	0.94
1:r:242:THR:HG22	1:r:681:GLU:CG	1.98	0.94
1:8:242:THR:HG22	1:8:681:GLU:CG	1.98	0.94
1:m:242:THR:HG22	1:m:681:GLU:CG	1.98	0.94
1:w:242:THR:HG22	1:w:681:GLU:CG	1.98	0.94
1:z:242:THR:HG22	1:z:681:GLU:CG	1.98	0.94
1:E:242:THR:HG22	1:E:681:GLU:CG	1.98	0.94
1:Q:242:THR:HG22	1:Q:681:GLU:CG	1.98	0.94
1:T:242:THR:HG22	1:T:681:GLU:CG	1.98	0.94
1:x:242:THR:HG22	1:x:681:GLU:CG	1.98	0.94
1:F:242:THR:HG22	1:F:681:GLU:CG	1.98	0.93
1:n:242:THR:HG22	1:n:681:GLU:CG	1.98	0.93
1:q:242:THR:HG22	1:q:681:GLU:CG	1.98	0.93
1:y:242:THR:HG22	1:y:681:GLU:CG	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:242:THR:HG22	1:C:681:GLU:CG	1.98	0.93
1:K:242:THR:HG22	1:K:681:GLU:CG	1.98	0.93
1:R:242:THR:HG22	1:R:681:GLU:CG	1.98	0.93
1:d:242:THR:HG22	1:d:681:GLU:CG	1.98	0.93
1:4:242:THR:HG22	1:4:681:GLU:CG	1.98	0.93
1:g:242:THR:HG22	1:g:681:GLU:CG	1.98	0.93
1:2:242:THR:HG22	1:2:681:GLU:CG	1.98	0.93
1:6:242:THR:HG22	1:6:681:GLU:CG	1.98	0.93
1:O:242:THR:HG22	1:O:681:GLU:CG	1.98	0.93
1:B:242:THR:HG22	1:B:681:GLU:CG	1.98	0.93
1:J:242:THR:HG22	1:J:681:GLU:CG	1.98	0.93
1:W:242:THR:HG22	1:W:681:GLU:CG	1.98	0.93
1:j:242:THR:HG22	1:j:681:GLU:CG	1.98	0.93
1:l:242:THR:HG22	1:l:681:GLU:CG	1.98	0.93
1:P:242:THR:HG22	1:P:681:GLU:CG	1.98	0.93
1:i:242:THR:HG22	1:i:681:GLU:CG	1.98	0.93
1:U:242:THR:HG22	1:U:681:GLU:CG	1.98	0.93
1:Y:242:THR:HG22	1:Y:681:GLU:CG	1.98	0.93
1:1:242:THR:HG22	1:1:681:GLU:CG	1.98	0.93
1:I:242:THR:HG22	1:I:681:GLU:CG	1.98	0.93
1:M:242:THR:HG22	1:M:681:GLU:CG	1.98	0.93
1:N:242:THR:HG22	1:N:681:GLU:CG	1.98	0.93
1:h:242:THR:HG22	1:h:681:GLU:CG	1.98	0.93
1:p:242:THR:HG22	1:p:681:GLU:CG	1.98	0.93
1:s:242:THR:HG22	1:s:681:GLU:CG	1.98	0.93
1:7:242:THR:HG22	1:7:681:GLU:CG	1.98	0.93
1:G:242:THR:HG22	1:G:681:GLU:CG	1.98	0.92
1:t:242:THR:HG22	1:t:681:GLU:CG	1.98	0.92
1:u:242:THR:HG22	1:u:681:GLU:CG	1.98	0.92
1:3:242:THR:HG22	1:3:681:GLU:CG	1.98	0.92
1:V:242:THR:HG22	1:V:681:GLU:CG	1.98	0.92
1:a:242:THR:HG22	1:a:681:GLU:CG	1.98	0.92
1:X:242:THR:HG22	1:X:681:GLU:CG	1.98	0.92
1:o:242:THR:HG22	1:o:681:GLU:CG	1.98	0.92
1:c:242:THR:HG22	1:c:681:GLU:CG	1.98	0.92
1:e:242:THR:HG22	1:e:681:GLU:CG	1.98	0.92
1:r:234:TRP:CZ2	1:r:298:ARG:HD2	2.08	0.89
1:D:234:TRP:CZ2	1:D:298:ARG:HD2	2.08	0.89
1:S:234:TRP:CZ2	1:S:298:ARG:HD2	2.08	0.89
1:V:234:TRP:CZ2	1:V:298:ARG:HD2	2.08	0.89
1:k:234:TRP:CZ2	1:k:298:ARG:HD2	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:234:TRP:CZ2	1:p:298:ARG:HD2	2.08	0.89
1:t:234:TRP:CZ2	1:t:298:ARG:HD2	2.08	0.89
1:B:234:TRP:CZ2	1:B:298:ARG:HD2	2.08	0.89
1:C:234:TRP:CZ2	1:C:298:ARG:HD2	2.08	0.89
1:G:234:TRP:CZ2	1:G:298:ARG:HD2	2.08	0.89
1:O:234:TRP:CZ2	1:O:298:ARG:HD2	2.08	0.89
1:X:234:TRP:CZ2	1:X:298:ARG:HD2	2.08	0.89
1:d:234:TRP:CZ2	1:d:298:ARG:HD2	2.08	0.89
1:g:234:TRP:CZ2	1:g:298:ARG:HD2	2.08	0.89
1:l:234:TRP:CZ2	1:l:298:ARG:HD2	2.08	0.89
1:o:234:TRP:CZ2	1:o:298:ARG:HD2	2.08	0.89
1:1:234:TRP:CZ2	1:1:298:ARG:HD2	2.08	0.89
1:A:234:TRP:CZ2	1:A:298:ARG:HD2	2.08	0.89
1:n:234:TRP:CZ2	1:n:298:ARG:HD2	2.08	0.89
1:3:234:TRP:CZ2	1:3:298:ARG:HD2	2.08	0.89
1:Q:234:TRP:CZ2	1:Q:298:ARG:HD2	2.08	0.89
1:a:234:TRP:CZ2	1:a:298:ARG:HD2	2.08	0.89
1:c:234:TRP:CZ2	1:c:298:ARG:HD2	2.08	0.89
1:v:234:TRP:CZ2	1:v:298:ARG:HD2	2.08	0.89
1:x:234:TRP:CZ2	1:x:298:ARG:HD2	2.08	0.89
1:L:234:TRP:CZ2	1:L:298:ARG:HD2	2.08	0.88
1:P:234:TRP:CZ2	1:P:298:ARG:HD2	2.08	0.88
1:e:234:TRP:CZ2	1:e:298:ARG:HD2	2.08	0.88
1:8:234:TRP:CZ2	1:8:298:ARG:HD2	2.08	0.88
1:R:234:TRP:CZ2	1:R:298:ARG:HD2	2.08	0.88
1:j:234:TRP:CZ2	1:j:298:ARG:HD2	2.08	0.88
1:z:234:TRP:CZ2	1:z:298:ARG:HD2	2.08	0.88
1:4:234:TRP:CZ2	1:4:298:ARG:HD2	2.08	0.88
1:6:234:TRP:CZ2	1:6:298:ARG:HD2	2.08	0.88
1:K:234:TRP:CZ2	1:K:298:ARG:HD2	2.08	0.88
1:W:234:TRP:CZ2	1:W:298:ARG:HD2	2.08	0.88
1:Z:234:TRP:CZ2	1:Z:298:ARG:HD2	2.08	0.88
1:H:234:TRP:CZ2	1:H:298:ARG:HD2	2.08	0.88
1:q:234:TRP:CZ2	1:q:298:ARG:HD2	2.08	0.88
1:5:234:TRP:CZ2	1:5:298:ARG:HD2	2.08	0.88
1:s:234:TRP:CZ2	1:s:298:ARG:HD2	2.08	0.88
1:2:234:TRP:CZ2	1:2:298:ARG:HD2	2.08	0.88
1:J:234:TRP:CZ2	1:J:298:ARG:HD2	2.08	0.88
1:U:234:TRP:CZ2	1:U:298:ARG:HD2	2.08	0.88
1:b:234:TRP:CZ2	1:b:298:ARG:HD2	2.08	0.88
1:f:234:TRP:CZ2	1:f:298:ARG:HD2	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:234:TRP:CZ2	1:h:298:ARG:HD2	2.08	0.88
1:y:234:TRP:CZ2	1:y:298:ARG:HD2	2.08	0.88
1:F:234:TRP:CZ2	1:F:298:ARG:HD2	2.08	0.88
1:M:234:TRP:CZ2	1:M:298:ARG:HD2	2.08	0.87
1:N:234:TRP:CZ2	1:N:298:ARG:HD2	2.08	0.87
1:T:234:TRP:CZ2	1:T:298:ARG:HD2	2.08	0.87
1:E:234:TRP:CZ2	1:E:298:ARG:HD2	2.08	0.87
1:i:234:TRP:CZ2	1:i:298:ARG:HD2	2.08	0.87
1:m:234:TRP:CZ2	1:m:298:ARG:HD2	2.08	0.87
1:w:234:TRP:CZ2	1:w:298:ARG:HD2	2.08	0.87
1:I:234:TRP:CZ2	1:I:298:ARG:HD2	2.08	0.87
1:u:234:TRP:CZ2	1:u:298:ARG:HD2	2.08	0.87
1:7:234:TRP:CZ2	1:7:298:ARG:HD2	2.08	0.87
1:Y:234:TRP:CZ2	1:Y:298:ARG:HD2	2.08	0.86
1:Z:353:VAL:H	1:Z:645:GLN:NE2	1.74	0.86
1:8:353:VAL:H	1:8:645:GLN:NE2	1.74	0.86
1:v:353:VAL:H	1:v:645:GLN:NE2	1.74	0.86
1:A:353:VAL:H	1:A:645:GLN:NE2	1.74	0.86
1:W:353:VAL:H	1:W:645:GLN:NE2	1.74	0.86
1:u:353:VAL:H	1:u:645:GLN:NE2	1.74	0.86
1:6:353:VAL:H	1:6:645:GLN:NE2	1.74	0.86
1:I:353:VAL:H	1:I:645:GLN:NE2	1.74	0.86
1:m:353:VAL:H	1:m:645:GLN:NE2	1.74	0.86
1:3:353:VAL:H	1:3:645:GLN:NE2	1.74	0.86
1:T:353:VAL:H	1:T:645:GLN:NE2	1.74	0.86
1:a:353:VAL:H	1:a:645:GLN:NE2	1.74	0.85
1:i:353:VAL:H	1:i:645:GLN:NE2	1.74	0.85
1:2:353:VAL:H	1:2:645:GLN:NE2	1.74	0.85
1:J:353:VAL:H	1:J:645:GLN:NE2	1.74	0.85
1:N:353:VAL:H	1:N:645:GLN:NE2	1.74	0.85
1:U:353:VAL:H	1:U:645:GLN:NE2	1.74	0.85
1:C:353:VAL:H	1:C:645:GLN:NE2	1.74	0.85
1:G:353:VAL:H	1:G:645:GLN:NE2	1.74	0.85
1:d:353:VAL:H	1:d:645:GLN:NE2	1.74	0.85
1:g:353:VAL:H	1:g:645:GLN:NE2	1.74	0.85
1:n:353:VAL:H	1:n:645:GLN:NE2	1.74	0.85
1:s:353:VAL:H	1:s:645:GLN:NE2	1.74	0.85
1:t:353:VAL:H	1:t:645:GLN:NE2	1.74	0.85
1:B:353:VAL:H	1:B:645:GLN:NE2	1.74	0.85
1:k:353:VAL:H	1:k:645:GLN:NE2	1.74	0.85
1:1:353:VAL:H	1:1:645:GLN:NE2	1.74	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:VAL:H	1:D:645:GLN:NE2	1.74	0.85
1:f:353:VAL:H	1:f:645:GLN:NE2	1.74	0.85
1:b:353:VAL:H	1:b:645:GLN:NE2	1.74	0.85
1:X:353:VAL:H	1:X:645:GLN:NE2	1.74	0.85
1:z:353:VAL:H	1:z:645:GLN:NE2	1.74	0.85
1:L:353:VAL:H	1:L:645:GLN:NE2	1.74	0.85
1:V:353:VAL:H	1:V:645:GLN:NE2	1.74	0.85
1:o:353:VAL:H	1:o:645:GLN:NE2	1.74	0.85
1:y:353:VAL:H	1:y:645:GLN:NE2	1.74	0.85
1:M:353:VAL:H	1:M:645:GLN:NE2	1.74	0.84
1:Y:353:VAL:H	1:Y:645:GLN:NE2	1.74	0.84
1:l:353:VAL:H	1:l:645:GLN:NE2	1.74	0.84
1:F:353:VAL:H	1:F:645:GLN:NE2	1.74	0.84
1:K:353:VAL:H	1:K:645:GLN:NE2	1.74	0.84
1:S:353:VAL:H	1:S:645:GLN:NE2	1.74	0.84
1:p:353:VAL:H	1:p:645:GLN:NE2	1.74	0.84
1:r:353:VAL:H	1:r:645:GLN:NE2	1.74	0.84
1:7:353:VAL:H	1:7:645:GLN:NE2	1.74	0.84
1:h:353:VAL:H	1:h:645:GLN:NE2	1.74	0.84
1:O:353:VAL:H	1:O:645:GLN:NE2	1.74	0.84
1:4:353:VAL:H	1:4:645:GLN:NE2	1.74	0.84
1:x:353:VAL:H	1:x:645:GLN:NE2	1.74	0.84
1:P:353:VAL:H	1:P:645:GLN:NE2	1.74	0.84
1:Q:353:VAL:H	1:Q:645:GLN:NE2	1.74	0.84
1:j:353:VAL:H	1:j:645:GLN:NE2	1.74	0.84
1:c:353:VAL:H	1:c:645:GLN:NE2	1.74	0.84
1:5:353:VAL:H	1:5:645:GLN:NE2	1.74	0.84
1:G:353:VAL:H	1:G:645:GLN:HE22	1.26	0.83
1:H:353:VAL:H	1:H:645:GLN:NE2	1.74	0.83
1:O:353:VAL:H	1:O:645:GLN:HE22	1.26	0.83
1:t:353:VAL:H	1:t:645:GLN:HE22	1.26	0.83
1:e:353:VAL:H	1:e:645:GLN:NE2	1.74	0.83
1:l:353:VAL:H	1:l:645:GLN:HE22	1.26	0.83
1:w:353:VAL:H	1:w:645:GLN:NE2	1.74	0.83
1:E:322:GLU:OE2	1:E:335:ASN:ND2	2.12	0.83
1:L:322:GLU:OE2	1:L:335:ASN:ND2	2.12	0.83
1:a:322:GLU:OE2	1:a:335:ASN:ND2	2.12	0.83
1:c:322:GLU:OE2	1:c:335:ASN:ND2	2.12	0.83
1:e:322:GLU:OE2	1:e:335:ASN:ND2	2.12	0.83
1:q:353:VAL:H	1:q:645:GLN:NE2	1.74	0.83
1:w:322:GLU:OE2	1:w:335:ASN:ND2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:322:GLU:OE2	1:z:335:ASN:ND2	2.12	0.83
1:6:353:VAL:H	1:6:645:GLN:HE22	1.26	0.83
1:E:353:VAL:H	1:E:645:GLN:NE2	1.74	0.83
1:H:322:GLU:OE2	1:H:335:ASN:ND2	2.12	0.83
1:R:353:VAL:H	1:R:645:GLN:NE2	1.74	0.83
1:3:322:GLU:OE2	1:3:335:ASN:ND2	2.12	0.83
1:5:322:GLU:OE2	1:5:335:ASN:ND2	2.12	0.83
1:O:322:GLU:OE2	1:O:335:ASN:ND2	2.12	0.83
1:W:353:VAL:H	1:W:645:GLN:HE22	1.26	0.83
1:Y:322:GLU:OE2	1:Y:335:ASN:ND2	2.12	0.83
1:l:322:GLU:OE2	1:l:335:ASN:ND2	2.12	0.83
1:4:322:GLU:OE2	1:4:335:ASN:ND2	2.12	0.83
1:7:322:GLU:OE2	1:7:335:ASN:ND2	2.12	0.83
1:C:322:GLU:OE2	1:C:335:ASN:ND2	2.12	0.83
1:K:322:GLU:OE2	1:K:335:ASN:ND2	2.12	0.83
1:R:322:GLU:OE2	1:R:335:ASN:ND2	2.12	0.83
1:U:322:GLU:OE2	1:U:335:ASN:ND2	2.12	0.83
1:g:322:GLU:OE2	1:g:335:ASN:ND2	2.12	0.83
1:s:322:GLU:OE2	1:s:335:ASN:ND2	2.12	0.83
1:G:322:GLU:OE2	1:G:335:ASN:ND2	2.12	0.83
1:X:322:GLU:OE2	1:X:335:ASN:ND2	2.12	0.83
1:b:322:GLU:OE2	1:b:335:ASN:ND2	2.12	0.83
1:d:322:GLU:OE2	1:d:335:ASN:ND2	2.12	0.83
1:f:322:GLU:OE2	1:f:335:ASN:ND2	2.12	0.83
1:q:322:GLU:OE2	1:q:335:ASN:ND2	2.12	0.83
1:t:322:GLU:OE2	1:t:335:ASN:ND2	2.12	0.83
1:E:353:VAL:H	1:E:645:GLN:HE22	1.26	0.83
1:V:322:GLU:OE2	1:V:335:ASN:ND2	2.12	0.83
1:n:322:GLU:OE2	1:n:335:ASN:ND2	2.12	0.83
1:o:322:GLU:OE2	1:o:335:ASN:ND2	2.12	0.83
1:v:322:GLU:OE2	1:v:335:ASN:ND2	2.12	0.83
1:y:322:GLU:OE2	1:y:335:ASN:ND2	2.12	0.83
1:A:322:GLU:OE2	1:A:335:ASN:ND2	2.12	0.83
1:F:322:GLU:OE2	1:F:335:ASN:ND2	2.12	0.83
1:N:322:GLU:OE2	1:N:335:ASN:ND2	2.12	0.83
1:i:322:GLU:OE2	1:i:335:ASN:ND2	2.12	0.83
1:p:322:GLU:OE2	1:p:335:ASN:ND2	2.12	0.83
1:w:353:VAL:H	1:w:645:GLN:HE22	1.26	0.83
1:B:322:GLU:OE2	1:B:335:ASN:ND2	2.12	0.82
1:h:322:GLU:OE2	1:h:335:ASN:ND2	2.12	0.82
1:2:322:GLU:OE2	1:2:335:ASN:ND2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:322:GLU:OE2	1:J:335:ASN:ND2	2.12	0.82
1:M:322:GLU:OE2	1:M:335:ASN:ND2	2.12	0.82
1:e:353:VAL:H	1:e:645:GLN:HE22	1.26	0.82
1:s:353:VAL:H	1:s:645:GLN:HE22	1.26	0.82
1:u:322:GLU:OE2	1:u:335:ASN:ND2	2.12	0.82
1:1:322:GLU:OE2	1:1:335:ASN:ND2	2.12	0.82
1:8:322:GLU:OE2	1:8:335:ASN:ND2	2.12	0.82
1:D:322:GLU:OE2	1:D:335:ASN:ND2	2.12	0.82
1:T:322:GLU:OE2	1:T:335:ASN:ND2	2.12	0.82
1:T:353:VAL:H	1:T:645:GLN:HE22	1.26	0.82
1:W:322:GLU:OE2	1:W:335:ASN:ND2	2.12	0.82
1:Z:322:GLU:OE2	1:Z:335:ASN:ND2	2.12	0.82
1:c:353:VAL:H	1:c:645:GLN:HE22	1.26	0.82
1:m:322:GLU:OE2	1:m:335:ASN:ND2	2.12	0.82
1:6:322:GLU:OE2	1:6:335:ASN:ND2	2.12	0.82
1:I:322:GLU:OE2	1:I:335:ASN:ND2	2.12	0.82
1:h:353:VAL:H	1:h:645:GLN:HE22	1.26	0.82
1:k:322:GLU:OE2	1:k:335:ASN:ND2	2.12	0.82
1:M:353:VAL:H	1:M:645:GLN:HE22	1.26	0.82
1:S:322:GLU:OE2	1:S:335:ASN:ND2	2.12	0.82
1:m:353:VAL:H	1:m:645:GLN:HE22	1.26	0.82
1:r:322:GLU:OE2	1:r:335:ASN:ND2	2.12	0.82
1:x:353:VAL:H	1:x:645:GLN:HE22	1.26	0.82
1:u:353:VAL:H	1:u:645:GLN:HE22	1.26	0.82
1:K:353:VAL:H	1:K:645:GLN:HE22	1.26	0.82
1:P:322:GLU:OE2	1:P:335:ASN:ND2	2.12	0.82
1:Z:353:VAL:H	1:Z:645:GLN:HE22	1.26	0.82
1:I:353:VAL:H	1:I:645:GLN:HE22	1.26	0.82
1:V:353:VAL:H	1:V:645:GLN:HE22	1.26	0.82
1:j:322:GLU:OE2	1:j:335:ASN:ND2	2.12	0.82
1:8:353:VAL:H	1:8:645:GLN:HE22	1.26	0.82
1:Q:353:VAL:H	1:Q:645:GLN:HE22	1.26	0.81
1:x:322:GLU:OE2	1:x:335:ASN:ND2	2.12	0.81
1:H:353:VAL:H	1:H:645:GLN:HE22	1.26	0.81
1:o:353:VAL:H	1:o:645:GLN:HE22	1.26	0.81
1:q:353:VAL:H	1:q:645:GLN:HE22	1.26	0.81
1:4:353:VAL:H	1:4:645:GLN:HE22	1.26	0.81
1:Q:322:GLU:OE2	1:Q:335:ASN:ND2	2.12	0.81
1:X:353:VAL:H	1:X:645:GLN:HE22	1.26	0.81
1:p:353:VAL:H	1:p:645:GLN:HE22	1.26	0.81
1:k:353:VAL:H	1:k:645:GLN:HE22	1.26	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:353:VAL:H	1:R:645:GLN:HE22	1.26	0.81
1:v:353:VAL:H	1:v:645:GLN:HE22	1.26	0.81
1:5:353:VAL:H	1:5:645:GLN:HE22	1.26	0.81
1:D:353:VAL:H	1:D:645:GLN:HE22	1.26	0.81
1:A:353:VAL:H	1:A:645:GLN:HE22	1.26	0.81
1:z:353:VAL:H	1:z:645:GLN:HE22	1.26	0.81
1:y:353:VAL:H	1:y:645:GLN:HE22	1.26	0.81
1:L:353:VAL:H	1:L:645:GLN:HE22	1.26	0.81
1:a:353:VAL:H	1:a:645:GLN:HE22	1.26	0.81
1:d:353:VAL:H	1:d:645:GLN:HE22	1.26	0.80
1:3:353:VAL:H	1:3:645:GLN:HE22	1.26	0.80
1:n:353:VAL:H	1:n:645:GLN:HE22	1.26	0.80
1:F:353:VAL:H	1:F:645:GLN:HE22	1.26	0.80
1:M:242:THR:CG2	1:M:681:GLU:HG3	2.12	0.80
1:G:242:THR:CG2	1:G:681:GLU:HG3	2.12	0.80
1:h:242:THR:CG2	1:h:681:GLU:HG3	2.12	0.80
1:t:242:THR:CG2	1:t:681:GLU:HG3	2.12	0.80
1:Q:242:THR:CG2	1:Q:681:GLU:HG3	2.12	0.80
1:U:353:VAL:H	1:U:645:GLN:HE22	1.26	0.80
1:Y:242:THR:CG2	1:Y:681:GLU:HG3	2.12	0.80
1:7:242:THR:CG2	1:7:681:GLU:HG3	2.12	0.80
1:r:353:VAL:H	1:r:645:GLN:HE22	1.26	0.80
1:x:242:THR:CG2	1:x:681:GLU:HG3	2.12	0.80
1:2:353:VAL:H	1:2:645:GLN:HE22	1.26	0.80
1:F:242:THR:CG2	1:F:681:GLU:HG3	2.12	0.79
1:S:353:VAL:H	1:S:645:GLN:HE22	1.26	0.79
1:V:242:THR:CG2	1:V:681:GLU:HG3	2.12	0.79
1:b:242:THR:CG2	1:b:681:GLU:HG3	2.12	0.79
1:f:242:THR:CG2	1:f:681:GLU:HG3	2.12	0.79
1:p:242:THR:CG2	1:p:681:GLU:HG3	2.12	0.79
1:7:353:VAL:H	1:7:645:GLN:HE22	1.26	0.79
1:P:353:VAL:H	1:P:645:GLN:HE22	1.26	0.79
1:l:242:THR:CG2	1:l:681:GLU:HG3	2.12	0.79
1:y:242:THR:CG2	1:y:681:GLU:HG3	2.12	0.79
1:O:242:THR:CG2	1:O:681:GLU:HG3	2.12	0.79
1:P:242:THR:CG2	1:P:681:GLU:HG3	2.12	0.79
1:j:242:THR:CG2	1:j:681:GLU:HG3	2.12	0.79
1:B:353:VAL:H	1:B:645:GLN:HE22	1.26	0.79
1:K:242:THR:CG2	1:K:681:GLU:HG3	2.12	0.79
1:L:242:THR:CG2	1:L:681:GLU:HG3	2.12	0.79
1:T:242:THR:CG2	1:T:681:GLU:HG3	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:353:VAL:H	1:Y:645:GLN:HE22	1.26	0.79
1:d:242:THR:CG2	1:d:681:GLU:HG3	2.12	0.79
1:i:353:VAL:H	1:i:645:GLN:HE22	1.26	0.79
1:j:353:VAL:H	1:j:645:GLN:HE22	1.26	0.79
1:n:242:THR:CG2	1:n:681:GLU:HG3	2.12	0.79
1:4:242:THR:CG2	1:4:681:GLU:HG3	2.12	0.79
1:J:353:VAL:H	1:J:645:GLN:HE22	1.26	0.79
1:i:242:THR:CG2	1:i:681:GLU:HG3	2.12	0.79
1:m:242:THR:CG2	1:m:681:GLU:HG3	2.12	0.79
1:3:242:THR:CG2	1:3:681:GLU:HG3	2.12	0.79
1:N:242:THR:CG2	1:N:681:GLU:HG3	2.12	0.79
1:a:242:THR:CG2	1:a:681:GLU:HG3	2.12	0.79
1:z:242:THR:CG2	1:z:681:GLU:HG3	2.12	0.79
1:A:242:THR:CG2	1:A:681:GLU:HG3	2.12	0.79
1:s:242:THR:CG2	1:s:681:GLU:HG3	2.12	0.79
1:v:242:THR:CG2	1:v:681:GLU:HG3	2.12	0.79
1:I:242:THR:CG2	1:I:681:GLU:HG3	2.12	0.79
1:S:242:THR:CG2	1:S:681:GLU:HG3	2.12	0.79
1:U:242:THR:CG2	1:U:681:GLU:HG3	2.12	0.79
1:u:242:THR:CG2	1:u:681:GLU:HG3	2.12	0.79
1:1:353:VAL:H	1:1:645:GLN:HE22	1.26	0.79
1:C:353:VAL:H	1:C:645:GLN:HE22	1.26	0.79
1:N:353:VAL:H	1:N:645:GLN:HE22	1.26	0.79
1:o:242:THR:CG2	1:o:681:GLU:HG3	2.12	0.79
1:W:242:THR:CG2	1:W:681:GLU:HG3	2.12	0.79
1:Z:242:THR:CG2	1:Z:681:GLU:HG3	2.12	0.79
1:k:242:THR:CG2	1:k:681:GLU:HG3	2.12	0.79
1:r:242:THR:CG2	1:r:681:GLU:HG3	2.12	0.79
1:6:242:THR:CG2	1:6:681:GLU:HG3	2.12	0.79
1:8:242:THR:CG2	1:8:681:GLU:HG3	2.12	0.79
1:C:242:THR:CG2	1:C:681:GLU:HG3	2.12	0.78
1:X:242:THR:CG2	1:X:681:GLU:HG3	2.12	0.78
1:f:353:VAL:H	1:f:645:GLN:HE22	1.26	0.78
1:D:242:THR:CG2	1:D:681:GLU:HG3	2.12	0.78
1:H:242:THR:CG2	1:H:681:GLU:HG3	2.12	0.78
1:R:242:THR:CG2	1:R:681:GLU:HG3	2.12	0.78
1:g:242:THR:CG2	1:g:681:GLU:HG3	2.12	0.78
1:g:353:VAL:H	1:g:645:GLN:HE22	1.26	0.78
1:w:242:THR:CG2	1:w:681:GLU:HG3	2.12	0.78
1:b:353:VAL:H	1:b:645:GLN:HE22	1.26	0.78
1:e:242:THR:CG2	1:e:681:GLU:HG3	2.12	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:242:THR:CG2	1:q:681:GLU:HG3	2.12	0.78
1:E:242:THR:CG2	1:E:681:GLU:HG3	2.12	0.78
1:c:242:THR:CG2	1:c:681:GLU:HG3	2.12	0.78
1:2:242:THR:CG2	1:2:681:GLU:HG3	2.12	0.78
1:5:242:THR:CG2	1:5:681:GLU:HG3	2.12	0.78
1:J:242:THR:CG2	1:J:681:GLU:HG3	2.12	0.78
1:1:242:THR:CG2	1:1:681:GLU:HG3	2.12	0.77
1:B:242:THR:CG2	1:B:681:GLU:HG3	2.12	0.77
1:B:365:PHE:CD1	1:B:366:PRO:HD2	2.20	0.76
1:I:365:PHE:CD1	1:I:366:PRO:HD2	2.20	0.76
1:N:365:PHE:CD1	1:N:366:PRO:HD2	2.20	0.76
1:c:365:PHE:CD1	1:c:366:PRO:HD2	2.21	0.76
1:e:365:PHE:CD1	1:e:366:PRO:HD2	2.21	0.76
1:i:365:PHE:CD1	1:i:366:PRO:HD2	2.20	0.76
1:G:365:PHE:CD1	1:G:366:PRO:HD2	2.21	0.76
1:O:365:PHE:CD1	1:O:366:PRO:HD2	2.21	0.76
1:V:365:PHE:CD1	1:V:366:PRO:HD2	2.20	0.76
1:Y:365:PHE:CD1	1:Y:366:PRO:HD2	2.20	0.76
1:d:365:PHE:CD1	1:d:366:PRO:HD2	2.21	0.76
1:l:365:PHE:CD1	1:l:366:PRO:HD2	2.21	0.76
1:n:365:PHE:CD1	1:n:366:PRO:HD2	2.21	0.76
1:u:365:PHE:CD1	1:u:366:PRO:HD2	2.20	0.76
1:1:365:PHE:CD1	1:1:366:PRO:HD2	2.20	0.76
1:p:365:PHE:CD1	1:p:366:PRO:HD2	2.20	0.76
1:t:365:PHE:CD1	1:t:366:PRO:HD2	2.21	0.76
1:7:365:PHE:CD1	1:7:366:PRO:HD2	2.20	0.76
1:H:365:PHE:CD1	1:H:366:PRO:HD2	2.20	0.76
1:R:365:PHE:CD1	1:R:366:PRO:HD2	2.20	0.76
1:k:365:PHE:CD1	1:k:366:PRO:HD2	2.20	0.76
1:q:365:PHE:CD1	1:q:366:PRO:HD2	2.20	0.76
1:D:365:PHE:CD1	1:D:366:PRO:HD2	2.20	0.76
1:a:365:PHE:CD1	1:a:366:PRO:HD2	2.21	0.76
1:s:365:PHE:CD1	1:s:366:PRO:HD2	2.20	0.76
1:w:365:PHE:CD1	1:w:366:PRO:HD2	2.21	0.76
1:5:365:PHE:CD1	1:5:366:PRO:HD2	2.20	0.76
1:6:365:PHE:CD1	1:6:366:PRO:HD2	2.20	0.76
1:E:365:PHE:CD1	1:E:366:PRO:HD2	2.21	0.76
1:M:365:PHE:CD1	1:M:366:PRO:HD2	2.21	0.76
1:U:365:PHE:CD1	1:U:366:PRO:HD2	2.20	0.76
1:W:365:PHE:CD1	1:W:366:PRO:HD2	2.20	0.76
1:h:365:PHE:CD1	1:h:366:PRO:HD2	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:365:PHE:CD1	1:o:366:PRO:HD2	2.21	0.76
1:y:365:PHE:CD1	1:y:366:PRO:HD2	2.21	0.76
1:8:365:PHE:CD1	1:8:366:PRO:HD2	2.21	0.76
1:F:365:PHE:CD1	1:F:366:PRO:HD2	2.21	0.76
1:X:365:PHE:CD1	1:X:366:PRO:HD2	2.21	0.76
1:Z:365:PHE:CD1	1:Z:366:PRO:HD2	2.21	0.76
1:3:365:PHE:CD1	1:3:366:PRO:HD2	2.21	0.76
1:A:365:PHE:CD1	1:A:366:PRO:HD2	2.21	0.76
1:v:365:PHE:CD1	1:v:366:PRO:HD2	2.21	0.76
1:C:365:PHE:CD1	1:C:366:PRO:HD2	2.20	0.76
1:L:365:PHE:CD1	1:L:366:PRO:HD2	2.20	0.75
1:Q:365:PHE:CD1	1:Q:366:PRO:HD2	2.20	0.75
1:g:365:PHE:CD1	1:g:366:PRO:HD2	2.20	0.75
1:m:365:PHE:CD1	1:m:366:PRO:HD2	2.20	0.75
1:x:365:PHE:CD1	1:x:366:PRO:HD2	2.20	0.75
1:T:365:PHE:CD1	1:T:366:PRO:HD2	2.20	0.75
1:z:365:PHE:CD1	1:z:366:PRO:HD2	2.20	0.75
1:2:365:PHE:CD1	1:2:366:PRO:HD2	2.20	0.75
1:S:365:PHE:CD1	1:S:366:PRO:HD2	2.20	0.75
1:r:365:PHE:CD1	1:r:366:PRO:HD2	2.20	0.75
1:J:365:PHE:CD1	1:J:366:PRO:HD2	2.20	0.75
1:f:365:PHE:CD1	1:f:366:PRO:HD2	2.21	0.75
1:j:365:PHE:CD1	1:j:366:PRO:HD2	2.20	0.75
1:P:365:PHE:CD1	1:P:366:PRO:HD2	2.20	0.75
1:b:365:PHE:CD1	1:b:366:PRO:HD2	2.21	0.75
1:4:365:PHE:CD1	1:4:366:PRO:HD2	2.20	0.75
1:K:365:PHE:CD1	1:K:366:PRO:HD2	2.20	0.75
1:G:597:THR:HG23	1:G:597:THR:O	1.88	0.74
1:w:597:THR:HG23	1:w:597:THR:O	1.88	0.74
1:E:597:THR:HG23	1:E:597:THR:O	1.88	0.74
1:Z:597:THR:HG23	1:Z:597:THR:O	1.88	0.74
1:f:597:THR:O	1:f:597:THR:HG23	1.88	0.74
1:t:597:THR:HG23	1:t:597:THR:O	1.88	0.74
1:8:597:THR:O	1:8:597:THR:HG23	1.88	0.74
1:I:597:THR:HG23	1:I:597:THR:O	1.88	0.74
1:X:597:THR:HG23	1:X:597:THR:O	1.88	0.74
1:b:597:THR:HG23	1:b:597:THR:O	1.88	0.74
1:o:597:THR:HG23	1:o:597:THR:O	1.88	0.74
1:u:597:THR:HG23	1:u:597:THR:O	1.88	0.74
1:U:614:GLN:OE1	1:U:614:GLN:N	2.21	0.74
1:Y:597:THR:HG23	1:Y:597:THR:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:614:GLN:OE1	1:Z:614:GLN:N	2.21	0.74
1:e:597:THR:HG23	1:e:597:THR:O	1.88	0.74
1:s:614:GLN:OE1	1:s:614:GLN:N	2.21	0.74
1:c:597:THR:HG23	1:c:597:THR:O	1.88	0.74
1:m:614:GLN:OE1	1:m:614:GLN:N	2.21	0.74
1:7:597:THR:HG23	1:7:597:THR:O	1.88	0.74
1:8:614:GLN:N	1:8:614:GLN:OE1	2.21	0.74
1:S:597:THR:O	1:S:597:THR:HG23	1.88	0.73
1:R:597:THR:HG23	1:R:597:THR:O	1.88	0.73
1:q:597:THR:O	1:q:597:THR:HG23	1.88	0.73
1:d:614:GLN:OE1	1:d:614:GLN:N	2.21	0.73
1:n:597:THR:O	1:n:597:THR:HG23	1.88	0.73
1:n:614:GLN:OE1	1:n:614:GLN:N	2.21	0.73
1:r:597:THR:HG23	1:r:597:THR:O	1.88	0.73
1:D:597:THR:HG23	1:D:597:THR:O	1.88	0.73
1:d:597:THR:HG23	1:d:597:THR:O	1.88	0.73
1:v:597:THR:O	1:v:597:THR:HG23	1.88	0.73
1:P:597:THR:HG23	1:P:597:THR:O	1.88	0.73
1:V:597:THR:O	1:V:597:THR:HG23	1.88	0.73
1:k:597:THR:HG23	1:k:597:THR:O	1.88	0.73
1:p:597:THR:HG23	1:p:597:THR:O	1.88	0.73
1:A:597:THR:HG23	1:A:597:THR:O	1.88	0.73
1:P:614:GLN:N	1:P:614:GLN:OE1	2.21	0.73
1:j:597:THR:HG23	1:j:597:THR:O	1.88	0.73
1:g:614:GLN:OE1	1:g:614:GLN:N	2.21	0.73
1:j:614:GLN:OE1	1:j:614:GLN:N	2.21	0.73
1:3:597:THR:O	1:3:597:THR:HG23	1.88	0.73
1:B:597:THR:HG23	1:B:597:THR:O	1.88	0.73
1:C:614:GLN:OE1	1:C:614:GLN:N	2.21	0.73
1:a:597:THR:HG23	1:a:597:THR:O	1.88	0.73
1:5:597:THR:HG23	1:5:597:THR:O	1.88	0.73
1:T:597:THR:HG23	1:T:597:THR:O	1.88	0.72
1:c:614:GLN:N	1:c:614:GLN:OE1	2.21	0.72
1:m:597:THR:HG23	1:m:597:THR:O	1.88	0.72
1:F:597:THR:O	1:F:597:THR:HG23	1.88	0.72
1:H:597:THR:HG23	1:H:597:THR:O	1.88	0.72
1:e:614:GLN:OE1	1:e:614:GLN:N	2.21	0.72
1:x:614:GLN:OE1	1:x:614:GLN:N	2.21	0.72
1:1:597:THR:HG23	1:1:597:THR:O	1.88	0.72
1:l:597:THR:HG23	1:l:597:THR:O	1.88	0.72
1:y:597:THR:O	1:y:597:THR:HG23	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:597:THR:HG23	1:O:597:THR:O	1.88	0.72
1:Q:614:GLN:OE1	1:Q:614:GLN:N	2.21	0.72
1:a:614:GLN:OE1	1:a:614:GLN:N	2.21	0.72
1:E:297:GLN:HE22	1:P:697:GLU:H	1.38	0.72
1:d:297:GLN:HE22	1:n:697:GLU:H	1.38	0.72
1:d:697:GLU:H	1:n:297:GLN:HE22	1.38	0.72
1:i:614:GLN:OE1	1:i:614:GLN:N	2.21	0.72
1:j:697:GLU:H	1:w:297:GLN:HE22	1.38	0.72
1:3:614:GLN:OE1	1:3:614:GLN:N	2.21	0.72
1:4:597:THR:HG23	1:4:597:THR:O	1.88	0.72
1:p:297:GLN:HE22	1:s:697:GLU:H	1.38	0.72
1:J:297:GLN:HE22	1:K:697:GLU:H	1.38	0.72
1:K:597:THR:O	1:K:597:THR:HG23	1.88	0.72
1:N:297:GLN:HE22	1:O:697:GLU:H	1.38	0.72
1:N:614:GLN:OE1	1:N:614:GLN:N	2.21	0.72
1:U:697:GLU:H	1:V:297:GLN:HE22	1.38	0.72
1:i:297:GLN:HE22	1:l:697:GLU:H	1.38	0.72
1:2:297:GLN:HE22	1:4:697:GLU:H	1.38	0.72
1:U:597:THR:HG23	1:U:597:THR:O	1.88	0.72
1:s:597:THR:HG23	1:s:597:THR:O	1.88	0.72
1:N:597:THR:O	1:N:597:THR:HG23	1.88	0.72
1:h:614:GLN:N	1:h:614:GLN:OE1	2.21	0.72
1:m:697:GLU:H	1:r:297:GLN:HE22	1.38	0.72
1:2:697:GLU:H	1:4:297:GLN:HE22	1.38	0.72
1:C:597:THR:O	1:C:597:THR:HG23	1.88	0.72
1:J:697:GLU:H	1:K:297:GLN:HE22	1.38	0.72
1:M:614:GLN:N	1:M:614:GLN:OE1	2.21	0.72
1:S:297:GLN:HE22	1:T:697:GLU:H	1.38	0.72
1:i:597:THR:O	1:i:597:THR:HG23	1.88	0.72
1:w:614:GLN:OE1	1:w:614:GLN:N	2.21	0.72
1:A:297:GLN:HE22	1:F:697:GLU:H	1.38	0.71
1:g:597:THR:HG23	1:g:597:THR:O	1.88	0.71
1:h:297:GLN:HE22	1:k:697:GLU:H	1.38	0.71
1:D:697:GLU:H	1:M:297:GLN:HE22	1.38	0.71
1:E:614:GLN:N	1:E:614:GLN:OE1	2.21	0.71
1:v:297:GLN:HE22	1:y:697:GLU:H	1.38	0.71
1:H:614:GLN:N	1:H:614:GLN:OE1	2.21	0.71
1:L:597:THR:HG23	1:L:597:THR:O	1.88	0.71
1:b:297:GLN:HE22	1:c:697:GLU:H	1.38	0.71
1:e:697:GLU:H	1:f:297:GLN:HE22	1.38	0.71
1:z:614:GLN:OE1	1:z:614:GLN:N	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:597:THR:HG23	1:6:597:THR:O	1.88	0.71
1:L:614:GLN:OE1	1:L:614:GLN:N	2.21	0.71
1:J:597:THR:HG23	1:J:597:THR:O	1.88	0.71
1:Q:597:THR:HG23	1:Q:597:THR:O	1.88	0.71
1:W:597:THR:HG23	1:W:597:THR:O	1.88	0.71
1:g:697:GLU:H	1:z:297:GLN:HE22	1.38	0.71
1:z:597:THR:HG23	1:z:597:THR:O	1.88	0.71
1:5:614:GLN:N	1:5:614:GLN:OE1	2.21	0.71
1:N:697:GLU:H	1:O:297:GLN:HE22	1.38	0.71
1:C:297:GLN:HE22	1:L:697:GLU:H	1.38	0.71
1:C:697:GLU:H	1:L:297:GLN:HE22	1.38	0.71
1:Q:297:GLN:HE22	1:R:697:GLU:H	1.38	0.71
1:i:697:GLU:H	1:l:297:GLN:HE22	1.38	0.71
1:o:297:GLN:HE22	1:6:697:GLU:H	1.38	0.71
1:x:597:THR:HG23	1:x:597:THR:O	1.88	0.71
1:2:597:THR:HG23	1:2:597:THR:O	1.88	0.71
1:a:297:GLN:HE22	1:3:697:GLU:H	1.38	0.71
1:q:697:GLU:H	1:x:297:GLN:HE22	1.38	0.71
1:7:297:GLN:HE22	1:8:697:GLU:H	1.38	0.71
1:D:614:GLN:OE1	1:D:614:GLN:N	2.21	0.71
1:W:697:GLU:H	1:X:297:GLN:HE22	1.38	0.71
1:Y:297:GLN:HE22	1:Z:697:GLU:H	1.38	0.71
1:a:697:GLU:H	1:3:297:GLN:HE22	1.38	0.71
1:g:297:GLN:HE22	1:z:697:GLU:H	1.38	0.71
1:m:297:GLN:HE22	1:r:697:GLU:H	1.38	0.71
1:K:614:GLN:OE1	1:K:614:GLN:N	2.21	0.71
1:M:597:THR:HG23	1:M:597:THR:O	1.88	0.71
1:S:697:GLU:H	1:T:297:GLN:HE22	1.38	0.71
1:k:614:GLN:N	1:k:614:GLN:OE1	2.21	0.71
1:6:614:GLN:OE1	1:6:614:GLN:N	2.21	0.71
1:j:297:GLN:HE22	1:w:697:GLU:H	1.38	0.70
1:h:597:THR:HG23	1:h:597:THR:O	1.88	0.70
1:o:697:GLU:H	1:6:297:GLN:HE22	1.38	0.70
1:4:614:GLN:OE1	1:4:614:GLN:N	2.21	0.70
1:E:440:GLN:NE2	1:E:473:GLN:OE1	2.25	0.70
1:E:697:GLU:H	1:P:297:GLN:HE22	1.38	0.70
1:G:297:GLN:HE22	1:H:697:GLU:H	1.38	0.70
1:K:314:LYS:HG2	1:K:410:THR:HG22	1.74	0.70
1:L:440:GLN:NE2	1:L:473:GLN:OE1	2.25	0.70
1:M:440:GLN:NE2	1:M:473:GLN:OE1	2.25	0.70
1:O:440:GLN:NE2	1:O:473:GLN:OE1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:440:GLN:NE2	1:S:473:GLN:OE1	2.25	0.70
1:W:297:GLN:HE22	1:X:697:GLU:H	1.38	0.70
1:W:614:GLN:OE1	1:W:614:GLN:N	2.21	0.70
1:X:440:GLN:NE2	1:X:473:GLN:OE1	2.25	0.70
1:b:314:LYS:HG2	1:b:410:THR:HG22	1.74	0.70
1:c:314:LYS:HG2	1:c:410:THR:HG22	1.74	0.70
1:c:440:GLN:NE2	1:c:473:GLN:OE1	2.25	0.70
1:e:314:LYS:HG2	1:e:410:THR:HG22	1.74	0.70
1:e:440:GLN:NE2	1:e:473:GLN:OE1	2.25	0.70
1:f:314:LYS:HG2	1:f:410:THR:HG22	1.74	0.70
1:l:440:GLN:NE2	1:l:473:GLN:OE1	2.25	0.70
1:o:440:GLN:NE2	1:o:473:GLN:OE1	2.25	0.70
1:r:440:GLN:NE2	1:r:473:GLN:OE1	2.25	0.70
1:t:297:GLN:HE22	1:5:697:GLU:H	1.38	0.70
1:w:440:GLN:NE2	1:w:473:GLN:OE1	2.25	0.70
1:z:440:GLN:NE2	1:z:473:GLN:OE1	2.25	0.70
1:J:440:GLN:NE2	1:J:473:GLN:OE1	2.25	0.70
1:N:314:LYS:HG2	1:N:410:THR:HG22	1.74	0.70
1:Y:314:LYS:HG2	1:Y:410:THR:HG22	1.74	0.70
1:Y:614:GLN:OE1	1:Y:614:GLN:N	2.21	0.70
1:Z:440:GLN:NE2	1:Z:473:GLN:OE1	2.25	0.70
1:b:440:GLN:NE2	1:b:473:GLN:OE1	2.25	0.70
1:h:440:GLN:NE2	1:h:473:GLN:OE1	2.25	0.70
1:i:314:LYS:HG2	1:i:410:THR:HG22	1.74	0.70
1:y:614:GLN:OE1	1:y:614:GLN:N	2.21	0.70
1:z:314:LYS:HG2	1:z:410:THR:HG22	1.74	0.70
1:4:314:LYS:HG2	1:4:410:THR:HG22	1.74	0.70
1:7:314:LYS:HG2	1:7:410:THR:HG22	1.74	0.70
1:8:440:GLN:NE2	1:8:473:GLN:OE1	2.25	0.70
1:B:297:GLN:HE22	1:I:697:GLU:H	1.38	0.70
1:L:314:LYS:HG2	1:L:410:THR:HG22	1.74	0.70
1:N:440:GLN:NE2	1:N:473:GLN:OE1	2.25	0.70
1:Q:314:LYS:HG2	1:Q:410:THR:HG22	1.74	0.70
1:U:314:LYS:HG2	1:U:410:THR:HG22	1.74	0.70
1:f:440:GLN:NE2	1:f:473:GLN:OE1	2.25	0.70
1:i:440:GLN:NE2	1:i:473:GLN:OE1	2.25	0.70
1:j:440:GLN:NE2	1:j:473:GLN:OE1	2.25	0.70
1:2:440:GLN:NE2	1:2:473:GLN:OE1	2.25	0.70
1:2:614:GLN:OE1	1:2:614:GLN:N	2.21	0.70
1:7:614:GLN:OE1	1:7:614:GLN:N	2.21	0.70
1:A:614:GLN:OE1	1:A:614:GLN:N	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:697:GLU:H	1:I:297:GLN:HE22	1.38	0.70
1:O:614:GLN:OE1	1:O:614:GLN:N	2.21	0.70
1:P:440:GLN:NE2	1:P:473:GLN:OE1	2.25	0.70
1:R:614:GLN:OE1	1:R:614:GLN:N	2.21	0.70
1:s:314:LYS:HG2	1:s:410:THR:HG22	1.74	0.70
1:u:614:GLN:OE1	1:u:614:GLN:N	2.21	0.70
1:v:614:GLN:N	1:v:614:GLN:OE1	2.21	0.70
1:x:314:LYS:HG2	1:x:410:THR:HG22	1.74	0.70
1:7:697:GLU:H	1:8:297:GLN:HE22	1.38	0.70
1:B:614:GLN:OE1	1:B:614:GLN:N	2.21	0.70
1:F:614:GLN:OE1	1:F:614:GLN:N	2.21	0.70
1:I:697:GLU:OE1	1:I:731:LEU:CD2	2.40	0.70
1:T:697:GLU:OE1	1:T:731:LEU:CD2	2.40	0.70
1:l:314:LYS:HG2	1:l:410:THR:HG22	1.74	0.70
1:l:614:GLN:OE1	1:l:614:GLN:N	2.21	0.70
1:m:314:LYS:HG2	1:m:410:THR:HG22	1.74	0.70
1:m:697:GLU:OE1	1:m:731:LEU:CD2	2.40	0.70
1:p:614:GLN:N	1:p:614:GLN:OE1	2.21	0.70
1:r:314:LYS:HG2	1:r:410:THR:HG22	1.74	0.70
1:r:614:GLN:OE1	1:r:614:GLN:N	2.21	0.70
1:t:314:LYS:HG2	1:t:410:THR:HG22	1.74	0.70
1:u:297:GLN:HE22	1:1:697:GLU:H	1.38	0.70
1:u:697:GLU:OE1	1:u:731:LEU:CD2	2.40	0.70
1:w:314:LYS:HG2	1:w:410:THR:HG22	1.74	0.70
1:x:440:GLN:NE2	1:x:473:GLN:OE1	2.25	0.70
1:A:697:GLU:OE1	1:A:731:LEU:CD2	2.40	0.70
1:E:314:LYS:HG2	1:E:410:THR:HG22	1.74	0.70
1:E:697:GLU:OE1	1:E:731:LEU:CD2	2.40	0.70
1:F:440:GLN:NE2	1:F:473:GLN:OE1	2.25	0.70
1:G:314:LYS:HG2	1:G:410:THR:HG22	1.74	0.70
1:G:697:GLU:OE1	1:G:731:LEU:CD2	2.40	0.70
1:J:614:GLN:OE1	1:J:614:GLN:N	2.21	0.70
1:O:314:LYS:HG2	1:O:410:THR:HG22	1.74	0.70
1:Q:440:GLN:NE2	1:Q:473:GLN:OE1	2.25	0.70
1:T:314:LYS:HG2	1:T:410:THR:HG22	1.74	0.70
1:V:614:GLN:OE1	1:V:614:GLN:N	2.21	0.70
1:q:614:GLN:OE1	1:q:614:GLN:N	2.21	0.70
1:r:697:GLU:OE1	1:r:731:LEU:CD2	2.40	0.70
1:u:697:GLU:H	1:1:297:GLN:HE22	1.38	0.70
1:v:697:GLU:OE1	1:v:731:LEU:CD2	2.40	0.70
1:w:697:GLU:OE1	1:w:731:LEU:CD2	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:440:GLN:NE2	1:y:473:GLN:OE1	2.25	0.70
1:1:614:GLN:OE1	1:1:614:GLN:N	2.21	0.70
1:3:440:GLN:NE2	1:3:473:GLN:OE1	2.25	0.70
1:D:314:LYS:HG2	1:D:410:THR:HG22	1.74	0.70
1:F:697:GLU:OE1	1:F:731:LEU:CD2	2.40	0.70
1:I:440:GLN:NE2	1:I:473:GLN:OE1	2.25	0.70
1:I:614:GLN:OE1	1:I:614:GLN:N	2.21	0.70
1:R:440:GLN:NE2	1:R:473:GLN:OE1	2.25	0.70
1:S:314:LYS:HG2	1:S:410:THR:HG22	1.74	0.70
1:S:697:GLU:OE1	1:S:731:LEU:CD2	2.40	0.70
1:U:697:GLU:OE1	1:U:731:LEU:CD2	2.40	0.70
1:Y:697:GLU:H	1:Z:297:GLN:HE22	1.38	0.70
1:a:440:GLN:NE2	1:a:473:GLN:OE1	2.25	0.70
1:a:697:GLU:OE1	1:a:731:LEU:CD2	2.40	0.70
1:d:440:GLN:NE2	1:d:473:GLN:OE1	2.25	0.70
1:e:697:GLU:OE1	1:e:731:LEU:CD2	2.40	0.70
1:k:314:LYS:HG2	1:k:410:THR:HG22	1.74	0.70
1:t:697:GLU:OE1	1:t:731:LEU:CD2	2.40	0.70
1:u:440:GLN:NE2	1:u:473:GLN:OE1	2.25	0.70
1:5:697:GLU:OE1	1:5:731:LEU:CD2	2.40	0.70
1:A:697:GLU:H	1:F:297:GLN:HE22	1.38	0.70
1:H:697:GLU:OE1	1:H:731:LEU:CD2	2.40	0.70
1:M:697:GLU:OE1	1:M:731:LEU:CD2	2.40	0.70
1:S:614:GLN:N	1:S:614:GLN:OE1	2.21	0.70
1:V:697:GLU:OE1	1:V:731:LEU:CD2	2.40	0.70
1:X:314:LYS:HG2	1:X:410:THR:HG22	1.74	0.70
1:X:614:GLN:N	1:X:614:GLN:OE1	2.21	0.70
1:Z:697:GLU:OE1	1:Z:731:LEU:CD2	2.40	0.70
1:c:697:GLU:OE1	1:c:731:LEU:CD2	2.40	0.70
1:f:614:GLN:OE1	1:f:614:GLN:N	2.21	0.70
1:h:697:GLU:OE1	1:h:731:LEU:CD2	2.40	0.70
1:n:440:GLN:NE2	1:n:473:GLN:OE1	2.25	0.70
1:o:314:LYS:HG2	1:o:410:THR:HG22	1.74	0.70
1:q:440:GLN:NE2	1:q:473:GLN:OE1	2.25	0.70
1:s:697:GLU:OE1	1:s:731:LEU:CD2	2.40	0.70
1:v:440:GLN:NE2	1:v:473:GLN:OE1	2.25	0.70
1:y:697:GLU:OE1	1:y:731:LEU:CD2	2.40	0.70
1:3:697:GLU:OE1	1:3:731:LEU:CD2	2.40	0.70
1:8:697:GLU:OE1	1:8:731:LEU:CD2	2.40	0.70
1:A:440:GLN:NE2	1:A:473:GLN:OE1	2.25	0.69
1:C:440:GLN:NE2	1:C:473:GLN:OE1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:697:GLU:OE1	1:D:731:LEU:CD2	2.40	0.69
1:b:614:GLN:OE1	1:b:614:GLN:N	2.21	0.69
1:g:440:GLN:NE2	1:g:473:GLN:OE1	2.25	0.69
1:k:697:GLU:OE1	1:k:731:LEU:CD2	2.40	0.69
1:n:697:GLU:OE1	1:n:731:LEU:CD2	2.40	0.69
1:p:697:GLU:OE1	1:p:731:LEU:CD2	2.40	0.69
1:q:297:GLN:HE22	1:x:697:GLU:H	1.38	0.69
1:t:614:GLN:OE1	1:t:614:GLN:N	2.21	0.69
1:5:440:GLN:NE2	1:5:473:GLN:OE1	2.25	0.69
1:7:440:GLN:NE2	1:7:473:GLN:OE1	2.25	0.69
1:7:697:GLU:OE1	1:7:731:LEU:CD2	2.40	0.69
1:G:440:GLN:NE2	1:G:473:GLN:OE1	2.25	0.69
1:H:440:GLN:NE2	1:H:473:GLN:OE1	2.25	0.69
1:O:697:GLU:OE1	1:O:731:LEU:CD2	2.40	0.69
1:W:440:GLN:NE2	1:W:473:GLN:OE1	2.25	0.69
1:X:697:GLU:OE1	1:X:731:LEU:CD2	2.40	0.69
1:Y:440:GLN:NE2	1:Y:473:GLN:OE1	2.25	0.69
1:Y:697:GLU:OE1	1:Y:731:LEU:CD2	2.40	0.69
1:l:697:GLU:OE1	1:l:731:LEU:CD2	2.40	0.69
1:t:440:GLN:NE2	1:t:473:GLN:OE1	2.25	0.69
1:6:697:GLU:OE1	1:6:731:LEU:CD2	2.40	0.69
1:C:697:GLU:OE1	1:C:731:LEU:CD2	2.40	0.69
1:W:697:GLU:OE1	1:W:731:LEU:CD2	2.40	0.69
1:a:314:LYS:HG2	1:a:410:THR:HG22	1.74	0.69
1:d:697:GLU:OE1	1:d:731:LEU:CD2	2.40	0.69
1:o:614:GLN:OE1	1:o:614:GLN:N	2.21	0.69
1:o:697:GLU:OE1	1:o:731:LEU:CD2	2.40	0.69
1:p:440:GLN:NE2	1:p:473:GLN:OE1	2.25	0.69
1:v:314:LYS:HG2	1:v:410:THR:HG22	1.74	0.69
1:v:697:GLU:H	1:y:297:GLN:HE22	1.38	0.69
1:A:314:LYS:HG2	1:A:410:THR:HG22	1.74	0.69
1:B:697:GLU:OE1	1:B:731:LEU:CD2	2.40	0.69
1:G:614:GLN:OE1	1:G:614:GLN:N	2.21	0.69
1:Q:697:GLU:H	1:R:297:GLN:HE22	1.38	0.69
1:V:440:GLN:NE2	1:V:473:GLN:OE1	2.25	0.69
1:g:697:GLU:OE1	1:g:731:LEU:CD2	2.40	0.69
1:t:697:GLU:H	1:5:297:GLN:HE22	1.38	0.69
1:3:314:LYS:HG2	1:3:410:THR:HG22	1.74	0.69
1:6:440:GLN:NE2	1:6:473:GLN:OE1	2.25	0.69
1:G:697:GLU:H	1:H:297:GLN:HE22	1.38	0.69
1:e:297:GLN:HE22	1:f:697:GLU:H	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:697:GLU:OE1	1:f:731:LEU:CD2	2.40	0.69
1:o:605:VAL:HG12	1:p:627:HIS:HB3	1.75	0.69
1:1:697:GLU:OE1	1:1:731:LEU:CD2	2.40	0.69
1:2:697:GLU:OE1	1:2:731:LEU:CD2	2.40	0.69
1:4:440:GLN:NE2	1:4:473:GLN:OE1	2.25	0.69
1:N:605:VAL:HG12	1:P:627:HIS:HB3	1.75	0.69
1:N:697:GLU:OE1	1:N:731:LEU:CD2	2.40	0.69
1:V:605:VAL:HG12	1:e:627:HIS:HB3	1.75	0.69
1:V:627:HIS:HB3	1:X:605:VAL:HG12	1.75	0.69
1:b:697:GLU:H	1:c:297:GLN:HE22	1.38	0.69
1:b:697:GLU:OE1	1:b:731:LEU:CD2	2.40	0.69
1:c:627:HIS:HB3	1:p:605:VAL:HG12	1.75	0.69
1:i:605:VAL:HG12	1:j:627:HIS:HB3	1.75	0.69
1:i:697:GLU:OE1	1:i:731:LEU:CD2	2.40	0.69
1:n:314:LYS:HG2	1:n:410:THR:HG22	1.74	0.69
1:r:605:VAL:HG12	1:s:627:HIS:HB3	1.75	0.69
1:6:314:LYS:HG2	1:6:410:THR:HG22	1.74	0.69
1:A:605:VAL:HG12	1:G:627:HIS:HB3	1.75	0.69
1:C:314:LYS:HG2	1:C:410:THR:HG22	1.74	0.69
1:H:627:HIS:HB3	1:Y:605:VAL:HG12	1.75	0.69
1:J:697:GLU:OE1	1:J:731:LEU:CD2	2.40	0.69
1:K:440:GLN:NE2	1:K:473:GLN:OE1	2.25	0.69
1:K:697:GLU:OE1	1:K:731:LEU:CD2	2.40	0.69
1:M:314:LYS:HG2	1:M:410:THR:HG22	1.74	0.69
1:R:314:LYS:HG2	1:R:410:THR:HG22	1.74	0.69
1:S:605:VAL:HG12	1:U:627:HIS:HB3	1.75	0.69
1:W:314:LYS:HG2	1:W:410:THR:HG22	1.74	0.69
1:c:605:VAL:HG12	1:o:627:HIS:HB3	1.75	0.69
1:d:314:LYS:HG2	1:d:410:THR:HG22	1.74	0.69
1:g:314:LYS:HG2	1:g:410:THR:HG22	1.74	0.69
1:h:314:LYS:HG2	1:h:410:THR:HG22	1.74	0.69
1:k:440:GLN:NE2	1:k:473:GLN:OE1	2.25	0.69
1:5:627:HIS:HB3	1:7:605:VAL:HG12	1.75	0.69
1:B:627:HIS:HB3	1:L:605:VAL:HG12	1.75	0.69
1:D:440:GLN:NE2	1:D:473:GLN:OE1	2.25	0.69
1:D:605:VAL:HG12	1:N:627:HIS:HB3	1.75	0.69
1:D:627:HIS:HB3	1:P:605:VAL:HG12	1.75	0.69
1:H:314:LYS:HG2	1:H:410:THR:HG22	1.74	0.69
1:P:314:LYS:HG2	1:P:410:THR:HG22	1.74	0.69
1:T:440:GLN:NE2	1:T:473:GLN:OE1	2.25	0.69
1:U:440:GLN:NE2	1:U:473:GLN:OE1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:627:HIS:HB3	1:e:605:VAL:HG12	1.75	0.69
1:i:627:HIS:HB3	1:k:605:VAL:HG12	1.75	0.69
1:j:314:LYS:HG2	1:j:410:THR:HG22	1.74	0.69
1:j:605:VAL:HG12	1:k:627:HIS:HB3	1.75	0.69
1:m:440:GLN:NE2	1:m:473:GLN:OE1	2.25	0.69
1:q:314:LYS:HG2	1:q:410:THR:HG22	1.74	0.69
1:s:440:GLN:NE2	1:s:473:GLN:OE1	2.25	0.69
1:t:627:HIS:HB3	1:v:605:VAL:HG12	1.75	0.69
1:z:605:VAL:HG12	1:1:627:HIS:HB3	1.75	0.69
1:z:627:HIS:HB3	1:2:605:VAL:HG12	1.75	0.69
1:4:697:GLU:OE1	1:4:731:LEU:CD2	2.40	0.69
1:6:605:VAL:HG12	1:7:627:HIS:HB3	1.75	0.69
1:J:605:VAL:HG12	1:L:627:HIS:HB3	1.75	0.69
1:K:605:VAL:HG12	1:a:627:HIS:HB3	1.75	0.69
1:W:605:VAL:HG12	1:Y:627:HIS:HB3	1.75	0.69
1:3:627:HIS:HB3	1:4:605:VAL:HG12	1.75	0.69
1:8:314:LYS:HG2	1:8:410:THR:HG22	1.74	0.69
1:D:297:GLN:HE22	1:M:697:GLU:H	1.38	0.69
1:G:225:SER:HB2	1:G:316:PHE:HB2	1.75	0.69
1:K:627:HIS:HB3	1:8:605:VAL:HG12	1.75	0.69
1:Z:314:LYS:HG2	1:Z:410:THR:HG22	1.74	0.69
1:m:605:VAL:HG12	1:n:627:HIS:HB3	1.75	0.69
1:t:225:SER:HB2	1:t:316:PHE:HB2	1.75	0.69
1:z:697:GLU:OE1	1:z:731:LEU:CD2	2.40	0.69
1:1:440:GLN:NE2	1:1:473:GLN:OE1	2.25	0.69
1:5:314:LYS:HG2	1:5:410:THR:HG22	1.74	0.69
1:B:440:GLN:NE2	1:B:473:GLN:OE1	2.25	0.68
1:C:605:VAL:HG12	1:b:627:HIS:HB3	1.75	0.68
1:D:225:SER:HB2	1:D:316:PHE:HB2	1.76	0.68
1:I:314:LYS:HG2	1:I:410:THR:HG22	1.74	0.68
1:L:697:GLU:OE1	1:L:731:LEU:CD2	2.40	0.68
1:Q:697:GLU:OE1	1:Q:731:LEU:CD2	2.40	0.68
1:T:605:VAL:HG12	1:d:627:HIS:HB3	1.75	0.68
1:T:614:GLN:OE1	1:T:614:GLN:N	2.21	0.68
1:V:314:LYS:HG2	1:V:410:THR:HG22	1.74	0.68
1:Z:605:VAL:HG12	1:4:627:HIS:HB3	1.75	0.68
1:f:627:HIS:HB3	1:g:605:VAL:HG12	1.75	0.68
1:k:225:SER:HB2	1:k:316:PHE:HB2	1.76	0.68
1:x:697:GLU:OE1	1:x:731:LEU:CD2	2.40	0.68
1:A:225:SER:HB2	1:A:316:PHE:HB2	1.76	0.68
1:P:697:GLU:OE1	1:P:731:LEU:CD2	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:225:SER:HB2	1:S:316:PHE:HB2	1.76	0.68
1:h:697:GLU:H	1:k:297:GLN:HE22	1.38	0.68
1:r:225:SER:HB2	1:r:316:PHE:HB2	1.76	0.68
1:u:314:LYS:HG2	1:u:410:THR:HG22	1.74	0.68
1:B:314:LYS:HG2	1:B:410:THR:HG22	1.74	0.68
1:G:605:VAL:HG12	1:I:627:HIS:HB3	1.75	0.68
1:j:697:GLU:OE1	1:j:731:LEU:CD2	2.40	0.68
1:p:314:LYS:HG2	1:p:410:THR:HG22	1.74	0.68
1:q:627:HIS:HB3	1:s:605:VAL:HG12	1.75	0.68
1:q:697:GLU:OE1	1:q:731:LEU:CD2	2.40	0.68
1:t:605:VAL:HG12	1:u:627:HIS:HB3	1.75	0.68
1:u:225:SER:HB2	1:u:316:PHE:HB2	1.76	0.68
1:v:225:SER:HB2	1:v:316:PHE:HB2	1.76	0.68
1:3:225:SER:HB2	1:3:316:PHE:HB2	1.76	0.68
1:I:225:SER:HB2	1:I:316:PHE:HB2	1.76	0.68
1:R:697:GLU:OE1	1:R:731:LEU:CD2	2.40	0.68
1:Z:627:HIS:HB3	1:3:605:VAL:HG12	1.75	0.68
1:a:605:VAL:HG12	1:8:627:HIS:HB3	1.75	0.68
1:1:225:SER:HB2	1:1:316:PHE:HB2	1.76	0.68
1:B:225:SER:HB2	1:B:316:PHE:HB2	1.76	0.68
1:Q:225:SER:HB2	1:Q:316:PHE:HB2	1.76	0.68
1:R:627:HIS:HB3	1:U:605:VAL:HG12	1.75	0.68
1:a:225:SER:HB2	1:a:316:PHE:HB2	1.76	0.68
1:p:225:SER:HB2	1:p:316:PHE:HB2	1.76	0.68
1:q:225:SER:HB2	1:q:316:PHE:HB2	1.76	0.68
1:x:225:SER:HB2	1:x:316:PHE:HB2	1.76	0.68
1:y:314:LYS:HG2	1:y:410:THR:HG22	1.74	0.68
1:1:314:LYS:HG2	1:1:410:THR:HG22	1.74	0.68
1:B:605:VAL:HG12	1:J:627:HIS:HB3	1.75	0.68
1:H:225:SER:HB2	1:H:316:PHE:HB2	1.76	0.68
1:J:314:LYS:HG2	1:J:410:THR:HG22	1.74	0.68
1:R:225:SER:HB2	1:R:316:PHE:HB2	1.76	0.68
1:V:225:SER:HB2	1:V:316:PHE:HB2	1.76	0.68
1:W:225:SER:HB2	1:W:316:PHE:HB2	1.76	0.68
1:w:225:SER:HB2	1:w:316:PHE:HB2	1.75	0.68
1:5:225:SER:HB2	1:5:316:PHE:HB2	1.76	0.68
1:6:225:SER:HB2	1:6:316:PHE:HB2	1.76	0.68
1:8:225:SER:HB2	1:8:316:PHE:HB2	1.75	0.68
1:E:225:SER:HB2	1:E:316:PHE:HB2	1.75	0.68
1:E:627:HIS:HB3	1:F:605:VAL:HG12	1.75	0.68
1:F:314:LYS:HG2	1:F:410:THR:HG22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:697:GLU:OE1	1:H:731:LEU:HD22	1.94	0.68
1:Z:225:SER:HB2	1:Z:316:PHE:HB2	1.75	0.68
1:g:627:HIS:HB3	1:h:605:VAL:HG12	1.75	0.68
1:x:605:VAL:HG12	1:y:627:HIS:HB3	1.75	0.68
1:1:605:VAL:HG12	1:2:627:HIS:HB3	1.75	0.68
1:2:314:LYS:HG2	1:2:410:THR:HG22	1.74	0.68
1:5:697:GLU:OE1	1:5:731:LEU:HD22	1.94	0.68
1:C:627:HIS:HB3	1:M:605:VAL:HG12	1.75	0.68
1:U:297:GLN:HE22	1:V:697:GLU:H	1.38	0.68
1:a:697:GLU:OE1	1:a:731:LEU:HD22	1.94	0.68
1:p:697:GLU:H	1:s:297:GLN:HE22	1.38	0.68
1:w:605:VAL:HG12	1:x:627:HIS:HB3	1.75	0.68
1:w:627:HIS:HB3	1:y:605:VAL:HG12	1.75	0.68
1:3:697:GLU:OE1	1:3:731:LEU:HD22	1.94	0.68
1:E:605:VAL:HG12	1:Q:627:HIS:HB3	1.75	0.68
1:F:627:HIS:HB3	1:Q:605:VAL:HG12	1.75	0.68
1:I:697:GLU:OE1	1:I:731:LEU:HD22	1.94	0.68
1:d:225:SER:HB2	1:d:316:PHE:HB2	1.76	0.68
1:n:225:SER:HB2	1:n:316:PHE:HB2	1.76	0.68
1:O:627:HIS:HB3	1:n:605:VAL:HG12	1.75	0.68
1:W:697:GLU:OE1	1:W:731:LEU:HD22	1.94	0.68
1:c:697:GLU:OE1	1:c:731:LEU:HD22	1.94	0.68
1:e:697:GLU:OE1	1:e:731:LEU:HD22	1.94	0.68
1:u:697:GLU:OE1	1:u:731:LEU:HD22	1.94	0.68
1:6:697:GLU:OE1	1:6:731:LEU:HD22	1.94	0.68
1:A:697:GLU:OE1	1:A:731:LEU:HD22	1.94	0.67
1:J:225:SER:HB2	1:J:316:PHE:HB2	1.76	0.67
1:U:225:SER:HB2	1:U:316:PHE:HB2	1.76	0.67
1:q:605:VAL:HG12	1:r:627:HIS:HB3	1.75	0.67
1:s:225:SER:HB2	1:s:316:PHE:HB2	1.76	0.67
1:v:697:GLU:OE1	1:v:731:LEU:HD22	1.94	0.67
1:2:225:SER:HB2	1:2:316:PHE:HB2	1.76	0.67
1:8:697:GLU:OE1	1:8:731:LEU:HD22	1.94	0.67
1:G:609:ARG:HH21	1:G:609:ARG:HG3	1.60	0.67
1:K:697:GLU:OE1	1:K:731:LEU:HD22	1.94	0.67
1:L:697:GLU:OE1	1:L:731:LEU:HD22	1.94	0.67
1:O:225:SER:HB2	1:O:316:PHE:HB2	1.75	0.67
1:R:605:VAL:HG12	1:S:627:HIS:HB3	1.75	0.67
1:X:697:GLU:OE1	1:X:731:LEU:HD22	1.94	0.67
1:Z:697:GLU:OE1	1:Z:731:LEU:HD22	1.94	0.67
1:d:605:VAL:HG12	1:l:627:HIS:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:225:SER:HB2	1:l:316:PHE:HB2	1.75	0.67
1:t:609:ARG:HG3	1:t:609:ARG:HH21	1.60	0.67
1:i:697:GLU:OE1	1:i:731:LEU:HD22	1.94	0.67
1:o:697:GLU:OE1	1:o:731:LEU:HD22	1.94	0.67
1:4:697:GLU:OE1	1:4:731:LEU:HD22	1.94	0.67
1:B:609:ARG:HH21	1:B:609:ARG:HG3	1.60	0.67
1:F:225:SER:HB2	1:F:316:PHE:HB2	1.76	0.67
1:L:225:SER:HB2	1:L:316:PHE:HB2	1.76	0.67
1:M:225:SER:HB2	1:M:316:PHE:HB2	1.75	0.67
1:T:627:HIS:HB3	1:l:605:VAL:HG12	1.75	0.67
1:V:697:GLU:OE1	1:V:731:LEU:HD22	1.94	0.67
1:c:609:ARG:HG3	1:c:609:ARG:HH21	1.60	0.67
1:e:609:ARG:HG3	1:e:609:ARG:HH21	1.60	0.67
1:h:225:SER:HB2	1:h:316:PHE:HB2	1.75	0.67
1:l:609:ARG:HG3	1:l:609:ARG:HH21	1.60	0.67
1:p:697:GLU:OE1	1:p:731:LEU:HD22	1.94	0.67
1:w:609:ARG:HH21	1:w:609:ARG:HG3	1.60	0.67
1:w:697:GLU:OE1	1:w:731:LEU:HD22	1.94	0.67
1:y:225:SER:HB2	1:y:316:PHE:HB2	1.76	0.67
1:z:225:SER:HB2	1:z:316:PHE:HB2	1.76	0.67
1:z:697:GLU:OE1	1:z:731:LEU:HD22	1.94	0.67
1:2:609:ARG:HG3	1:2:609:ARG:HH21	1.60	0.67
1:C:225:SER:HB2	1:C:316:PHE:HB2	1.76	0.67
1:E:609:ARG:HH21	1:E:609:ARG:HG3	1.60	0.67
1:E:697:GLU:OE1	1:E:731:LEU:HD22	1.94	0.67
1:H:605:VAL:HG12	1:W:627:HIS:HB3	1.75	0.67
1:J:609:ARG:HH21	1:J:609:ARG:HG3	1.60	0.67
1:N:225:SER:HB2	1:N:316:PHE:HB2	1.76	0.67
1:N:697:GLU:OE1	1:N:731:LEU:HD22	1.94	0.67
1:O:605:VAL:HG12	1:m:627:HIS:HB3	1.75	0.67
1:O:609:ARG:HH21	1:O:609:ARG:HG3	1.60	0.67
1:c:225:SER:HB2	1:c:316:PHE:HB2	1.76	0.67
1:e:225:SER:HB2	1:e:316:PHE:HB2	1.76	0.67
1:g:697:GLU:OE1	1:g:731:LEU:HD22	1.94	0.67
1:i:225:SER:HB2	1:i:316:PHE:HB2	1.76	0.67
1:u:605:VAL:HG12	1:v:627:HIS:HB3	1.75	0.67
1:y:697:GLU:OE1	1:y:731:LEU:HD22	1.94	0.67
1:1:609:ARG:HH21	1:1:609:ARG:HG3	1.60	0.67
1:5:605:VAL:HG12	1:6:627:HIS:HB3	1.75	0.67
1:A:627:HIS:HB3	1:I:605:VAL:HG12	1.75	0.67
1:D:234:TRP:CE2	1:D:298:ARG:HD2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:697:GLU:OE1	1:F:731:LEU:HD22	1.94	0.67
1:Q:609:ARG:HH21	1:Q:609:ARG:HG3	1.60	0.67
1:T:609:ARG:HG3	1:T:609:ARG:HH21	1.60	0.67
1:Y:225:SER:HB2	1:Y:316:PHE:HB2	1.76	0.67
1:g:225:SER:HB2	1:g:316:PHE:HB2	1.76	0.67
1:j:609:ARG:HH21	1:j:609:ARG:HG3	1.60	0.67
1:k:234:TRP:CE2	1:k:298:ARG:HD2	2.30	0.67
1:m:225:SER:HB2	1:m:316:PHE:HB2	1.76	0.67
1:m:609:ARG:HG3	1:m:609:ARG:HH21	1.60	0.67
1:o:225:SER:HB2	1:o:316:PHE:HB2	1.75	0.67
1:o:609:ARG:HH21	1:o:609:ARG:HG3	1.60	0.67
1:x:609:ARG:HH21	1:x:609:ARG:HG3	1.60	0.67
1:1:697:GLU:OE1	1:1:731:LEU:HD22	1.94	0.67
1:7:225:SER:HB2	1:7:316:PHE:HB2	1.76	0.67
1:C:697:GLU:OE1	1:C:731:LEU:HD22	1.94	0.67
1:P:609:ARG:HH21	1:P:609:ARG:HG3	1.60	0.67
1:S:697:GLU:OE1	1:S:731:LEU:HD22	1.94	0.67
1:T:225:SER:HB2	1:T:316:PHE:HB2	1.76	0.67
1:U:234:TRP:CE2	1:U:298:ARG:HD2	2.30	0.67
1:X:225:SER:HB2	1:X:316:PHE:HB2	1.75	0.67
1:f:605:VAL:HG12	1:h:627:HIS:HB3	1.75	0.67
1:r:697:GLU:OE1	1:r:731:LEU:HD22	1.94	0.67
1:s:234:TRP:CE2	1:s:298:ARG:HD2	2.30	0.67
1:B:697:GLU:OE1	1:B:731:LEU:HD22	1.94	0.67
1:M:627:HIS:HB3	1:b:605:VAL:HG12	1.75	0.67
1:O:234:TRP:CE2	1:O:298:ARG:HD2	2.30	0.67
1:P:697:GLU:OE1	1:P:731:LEU:HD22	1.94	0.67
1:X:609:ARG:HH21	1:X:609:ARG:HG3	1.60	0.67
1:d:697:GLU:OE1	1:d:731:LEU:HD22	1.94	0.67
1:l:234:TRP:CE2	1:l:298:ARG:HD2	2.30	0.67
1:G:234:TRP:CE2	1:G:298:ARG:HD2	2.30	0.67
1:d:609:ARG:HG3	1:d:609:ARG:HH21	1.60	0.67
1:j:697:GLU:OE1	1:j:731:LEU:HD22	1.94	0.67
1:t:234:TRP:CE2	1:t:298:ARG:HD2	2.30	0.67
1:H:234:TRP:CE2	1:H:298:ARG:HD2	2.30	0.67
1:n:697:GLU:OE1	1:n:731:LEU:HD22	1.94	0.67
1:x:697:GLU:OE1	1:x:731:LEU:HD22	1.94	0.67
1:5:234:TRP:CE2	1:5:298:ARG:HD2	2.30	0.67
1:F:609:ARG:HH21	1:F:609:ARG:HG3	1.60	0.66
1:Q:697:GLU:OE1	1:Q:731:LEU:HD22	1.94	0.66
1:d:246:THR:OG1	1:d:677:GLN:NE2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:609:ARG:HH21	1:n:609:ARG:HG3	1.60	0.66
1:r:609:ARG:HH21	1:r:609:ARG:HG3	1.60	0.66
1:y:609:ARG:HH21	1:y:609:ARG:HG3	1.60	0.66
1:K:234:TRP:CE2	1:K:298:ARG:HD2	2.30	0.66
1:K:246:THR:OG1	1:K:677:GLN:NE2	2.27	0.66
1:U:697:GLU:OE1	1:U:731:LEU:HD22	1.94	0.66
1:V:609:ARG:HH21	1:V:609:ARG:HG3	1.60	0.66
1:g:609:ARG:HH21	1:g:609:ARG:HG3	1.60	0.66
1:j:225:SER:HB2	1:j:316:PHE:HB2	1.76	0.66
1:n:246:THR:OG1	1:n:677:GLN:NE2	2.27	0.66
1:p:609:ARG:HH21	1:p:609:ARG:HG3	1.60	0.66
1:q:697:GLU:OE1	1:q:731:LEU:HD22	1.94	0.66
1:v:609:ARG:HG3	1:v:609:ARG:HH21	1.60	0.66
1:z:609:ARG:HH21	1:z:609:ARG:HG3	1.60	0.66
1:4:246:THR:OG1	1:4:677:GLN:NE2	2.27	0.66
1:7:234:TRP:CE2	1:7:298:ARG:HD2	2.30	0.66
1:7:697:GLU:OE1	1:7:731:LEU:HD22	1.94	0.66
1:C:609:ARG:HG3	1:C:609:ARG:HH21	1.60	0.66
1:S:609:ARG:HG3	1:S:609:ARG:HH21	1.60	0.66
1:V:246:THR:OG1	1:V:677:GLN:NE2	2.27	0.66
1:Y:234:TRP:CE2	1:Y:298:ARG:HD2	2.30	0.66
1:Y:697:GLU:OE1	1:Y:731:LEU:HD22	1.94	0.66
1:c:234:TRP:CE2	1:c:298:ARG:HD2	2.30	0.66
1:e:234:TRP:CE2	1:e:298:ARG:HD2	2.30	0.66
1:f:246:THR:OG1	1:f:677:GLN:NE2	2.27	0.66
1:u:234:TRP:CE2	1:u:298:ARG:HD2	2.30	0.66
1:u:609:ARG:HG3	1:u:609:ARG:HH21	1.60	0.66
1:v:234:TRP:CE2	1:v:298:ARG:HD2	2.30	0.66
1:2:697:GLU:OE1	1:2:731:LEU:HD22	1.94	0.66
1:A:234:TRP:CE2	1:A:298:ARG:HD2	2.30	0.66
1:A:609:ARG:HH21	1:A:609:ARG:HG3	1.60	0.66
1:B:246:THR:OG1	1:B:677:GLN:NE2	2.27	0.66
1:C:234:TRP:CE2	1:C:298:ARG:HD2	2.30	0.66
1:I:234:TRP:CE2	1:I:298:ARG:HD2	2.30	0.66
1:L:609:ARG:HG3	1:L:609:ARG:HH21	1.60	0.66
1:O:697:GLU:OE1	1:O:731:LEU:HD22	1.94	0.66
1:P:225:SER:HB2	1:P:316:PHE:HB2	1.76	0.66
1:R:697:GLU:OE1	1:R:731:LEU:HD22	1.94	0.66
1:W:609:ARG:HH21	1:W:609:ARG:HG3	1.60	0.66
1:b:246:THR:OG1	1:b:677:GLN:NE2	2.27	0.66
1:s:697:GLU:OE1	1:s:731:LEU:HD22	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:234:TRP:CE2	1:4:298:ARG:HD2	2.30	0.66
1:F:234:TRP:CE2	1:F:298:ARG:HD2	2.30	0.66
1:I:609:ARG:HH21	1:I:609:ARG:HG3	1.60	0.66
1:J:697:GLU:OE1	1:J:731:LEU:HD22	1.94	0.66
1:P:246:THR:OG1	1:P:677:GLN:NE2	2.27	0.66
1:R:234:TRP:CE2	1:R:298:ARG:HD2	2.30	0.66
1:f:234:TRP:CE2	1:f:298:ARG:HD2	2.30	0.66
1:f:697:GLU:OE1	1:f:731:LEU:HD22	1.94	0.66
1:g:234:TRP:CE2	1:g:298:ARG:HD2	2.30	0.66
1:g:246:THR:OG1	1:g:677:GLN:NE2	2.27	0.66
1:l:697:GLU:OE1	1:l:731:LEU:HD22	1.94	0.66
1:p:246:THR:OG1	1:p:677:GLN:NE2	2.27	0.66
1:q:234:TRP:CE2	1:q:298:ARG:HD2	2.30	0.66
1:s:609:ARG:HH21	1:s:609:ARG:HG3	1.60	0.66
1:y:234:TRP:CE2	1:y:298:ARG:HD2	2.30	0.66
1:1:246:THR:OG1	1:1:677:GLN:NE2	2.27	0.66
1:S:234:TRP:CE2	1:S:298:ARG:HD2	2.30	0.66
1:T:234:TRP:CE2	1:T:298:ARG:HD2	2.30	0.66
1:T:697:GLU:OE1	1:T:731:LEU:HD22	1.94	0.66
1:U:609:ARG:HG3	1:U:609:ARG:HH21	1.60	0.66
1:a:246:THR:OG1	1:a:677:GLN:NE2	2.27	0.66
1:b:234:TRP:CE2	1:b:298:ARG:HD2	2.30	0.66
1:b:697:GLU:OE1	1:b:731:LEU:HD22	1.94	0.66
1:j:246:THR:OG1	1:j:677:GLN:NE2	2.27	0.66
1:m:234:TRP:CE2	1:m:298:ARG:HD2	2.30	0.66
1:m:697:GLU:OE1	1:m:731:LEU:HD22	1.94	0.66
1:q:609:ARG:HH21	1:q:609:ARG:HG3	1.60	0.66
1:2:234:TRP:CE2	1:2:298:ARG:HD2	2.30	0.66
1:6:609:ARG:HH21	1:6:609:ARG:HG3	1.60	0.66
1:G:697:GLU:OE1	1:G:731:LEU:HD22	1.94	0.66
1:J:234:TRP:CE2	1:J:298:ARG:HD2	2.30	0.66
1:N:234:TRP:CE2	1:N:298:ARG:HD2	2.30	0.66
1:R:609:ARG:HH21	1:R:609:ARG:HG3	1.60	0.66
1:a:609:ARG:HH21	1:a:609:ARG:HG3	1.60	0.66
1:d:234:TRP:CE2	1:d:298:ARG:HD2	2.30	0.66
1:f:225:SER:HB2	1:f:316:PHE:HB2	1.76	0.66
1:n:234:TRP:CE2	1:n:298:ARG:HD2	2.30	0.66
1:t:697:GLU:OE1	1:t:731:LEU:HD22	1.94	0.66
1:A:246:THR:OG1	1:A:677:GLN:NE2	2.27	0.66
1:M:234:TRP:CE2	1:M:298:ARG:HD2	2.30	0.66
1:M:697:GLU:OE1	1:M:731:LEU:HD22	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:246:THR:OG1	1:S:677:GLN:NE2	2.27	0.66
1:i:234:TRP:CE2	1:i:298:ARG:HD2	2.30	0.66
1:k:609:ARG:HH21	1:k:609:ARG:HG3	1.60	0.66
1:r:234:TRP:CE2	1:r:298:ARG:HD2	2.30	0.66
1:3:246:THR:OG1	1:3:677:GLN:NE2	2.27	0.66
1:D:609:ARG:HG3	1:D:609:ARG:HH21	1.60	0.66
1:D:697:GLU:OE1	1:D:731:LEU:HD22	1.94	0.66
1:N:609:ARG:HH21	1:N:609:ARG:HG3	1.60	0.66
1:P:234:TRP:CE2	1:P:298:ARG:HD2	2.30	0.66
1:h:697:GLU:OE1	1:h:731:LEU:HD22	1.94	0.66
1:i:609:ARG:HH21	1:i:609:ARG:HG3	1.60	0.66
1:j:234:TRP:CE2	1:j:298:ARG:HD2	2.30	0.66
1:k:697:GLU:OE1	1:k:731:LEU:HD22	1.94	0.66
1:o:246:THR:OG1	1:o:677:GLN:NE2	2.27	0.66
1:r:246:THR:OG1	1:r:677:GLN:NE2	2.27	0.66
1:5:609:ARG:HH21	1:5:609:ARG:HG3	1.60	0.66
1:W:281:TYR:HB3	1:W:647:LEU:CD1	2.26	0.66
1:X:246:THR:OG1	1:X:677:GLN:NE2	2.27	0.66
1:Z:234:TRP:CE2	1:Z:298:ARG:HD2	2.30	0.66
1:Z:281:TYR:HB3	1:Z:647:LEU:CD1	2.26	0.66
1:b:225:SER:HB2	1:b:316:PHE:HB2	1.76	0.66
1:g:281:TYR:HB3	1:g:647:LEU:CD1	2.26	0.66
1:h:234:TRP:CE2	1:h:298:ARG:HD2	2.30	0.66
1:v:246:THR:OG1	1:v:677:GLN:NE2	2.27	0.66
1:3:609:ARG:HG3	1:3:609:ARG:HH21	1.60	0.66
1:6:281:TYR:HB3	1:6:647:LEU:CD1	2.26	0.66
1:8:281:TYR:HB3	1:8:647:LEU:CD1	2.26	0.66
1:8:609:ARG:HH21	1:8:609:ARG:HG3	1.60	0.66
1:C:281:TYR:HB3	1:C:647:LEU:CD1	2.26	0.65
1:F:246:THR:OG1	1:F:677:GLN:NE2	2.27	0.65
1:K:225:SER:HB2	1:K:316:PHE:HB2	1.76	0.65
1:K:609:ARG:HG3	1:K:609:ARG:HH21	1.60	0.65
1:M:281:TYR:HB3	1:M:647:LEU:CD1	2.26	0.65
1:P:281:TYR:HB3	1:P:647:LEU:CD1	2.26	0.65
1:h:281:TYR:HB3	1:h:647:LEU:CD1	2.26	0.65
1:j:281:TYR:HB3	1:j:647:LEU:CD1	2.26	0.65
1:H:609:ARG:HH21	1:H:609:ARG:HG3	1.60	0.65
1:I:281:TYR:HB3	1:I:647:LEU:CD1	2.26	0.65
1:y:246:THR:OG1	1:y:677:GLN:NE2	2.27	0.65
1:3:281:TYR:HB3	1:3:647:LEU:CD1	2.26	0.65
1:4:609:ARG:HG3	1:4:609:ARG:HH21	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:281:TYR:HB3	1:7:647:LEU:CD1	2.26	0.65
1:8:234:TRP:CE2	1:8:298:ARG:HD2	2.30	0.65
1:M:609:ARG:HH21	1:M:609:ARG:HG3	1.60	0.65
1:U:281:TYR:HB3	1:U:647:LEU:CD1	2.26	0.65
1:Y:281:TYR:HB3	1:Y:647:LEU:CD1	2.26	0.65
1:Z:609:ARG:HH21	1:Z:609:ARG:HG3	1.60	0.65
1:a:281:TYR:HB3	1:a:647:LEU:CD1	2.26	0.65
1:c:281:TYR:HB3	1:c:647:LEU:CD1	2.26	0.65
1:e:281:TYR:HB3	1:e:647:LEU:CD1	2.26	0.65
1:p:234:TRP:CE2	1:p:298:ARG:HD2	2.30	0.65
1:s:281:TYR:HB3	1:s:647:LEU:CD1	2.26	0.65
1:u:281:TYR:HB3	1:u:647:LEU:CD1	2.26	0.65
1:x:234:TRP:CE2	1:x:298:ARG:HD2	2.30	0.65
1:4:225:SER:HB2	1:4:316:PHE:HB2	1.76	0.65
1:B:234:TRP:CE2	1:B:298:ARG:HD2	2.30	0.65
1:F:281:TYR:HB3	1:F:647:LEU:CD1	2.26	0.65
1:T:246:THR:OG1	1:T:677:GLN:NE2	2.27	0.65
1:V:234:TRP:CE2	1:V:298:ARG:HD2	2.30	0.65
1:o:234:TRP:CE2	1:o:298:ARG:HD2	2.30	0.65
1:p:281:TYR:HB3	1:p:647:LEU:CD1	2.26	0.65
1:y:281:TYR:HB3	1:y:647:LEU:CD1	2.26	0.65
1:z:281:TYR:HB3	1:z:647:LEU:CD1	2.26	0.65
1:1:234:TRP:CE2	1:1:298:ARG:HD2	2.30	0.65
1:L:234:TRP:CE2	1:L:298:ARG:HD2	2.30	0.65
1:L:281:TYR:HB3	1:L:647:LEU:CD1	2.26	0.65
1:Q:234:TRP:CE2	1:Q:298:ARG:HD2	2.30	0.65
1:Q:281:TYR:HB3	1:Q:647:LEU:CD1	2.26	0.65
1:T:281:TYR:HB3	1:T:647:LEU:CD1	2.26	0.65
1:V:281:TYR:HB3	1:V:647:LEU:CD1	2.26	0.65
1:W:234:TRP:CE2	1:W:298:ARG:HD2	2.30	0.65
1:X:234:TRP:CE2	1:X:298:ARG:HD2	2.30	0.65
1:h:609:ARG:HH21	1:h:609:ARG:HG3	1.60	0.65
1:i:246:THR:OG1	1:i:677:GLN:NE2	2.27	0.65
1:m:281:TYR:HB3	1:m:647:LEU:CD1	2.26	0.65
1:2:281:TYR:HB3	1:2:647:LEU:CD1	2.26	0.65
1:G:528:ASP:OD1	1:G:566:ARG:NH2	2.30	0.65
1:H:528:ASP:OD1	1:H:566:ARG:NH2	2.30	0.65
1:J:281:TYR:HB3	1:J:647:LEU:CD1	2.26	0.65
1:N:246:THR:OG1	1:N:677:GLN:NE2	2.27	0.65
1:W:528:ASP:OD1	1:W:566:ARG:NH2	2.30	0.65
1:a:234:TRP:CE2	1:a:298:ARG:HD2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:246:THR:OG1	1:m:677:GLN:NE2	2.27	0.65
1:t:281:TYR:HB3	1:t:647:LEU:CD1	2.26	0.65
1:t:528:ASP:OD1	1:t:566:ARG:NH2	2.30	0.65
1:x:281:TYR:HB3	1:x:647:LEU:CD1	2.26	0.65
1:5:528:ASP:OD1	1:5:566:ARG:NH2	2.30	0.65
1:6:528:ASP:OD1	1:6:566:ARG:NH2	2.30	0.65
1:D:528:ASP:OD1	1:D:566:ARG:NH2	2.30	0.65
1:G:281:TYR:HB3	1:G:647:LEU:CD1	2.26	0.65
1:I:528:ASP:OD1	1:I:566:ARG:NH2	2.30	0.65
1:K:481:PRO:HG3	1:8:602:PRO:HD3	1.79	0.65
1:b:609:ARG:HH21	1:b:609:ARG:HG3	1.60	0.65
1:f:609:ARG:HH21	1:f:609:ARG:HG3	1.60	0.65
1:q:281:TYR:HB3	1:q:647:LEU:CD1	2.26	0.65
1:u:528:ASP:OD1	1:u:566:ARG:NH2	2.30	0.65
1:y:528:ASP:OD1	1:y:566:ARG:NH2	2.30	0.65
1:z:234:TRP:CE2	1:z:298:ARG:HD2	2.30	0.65
1:3:234:TRP:CE2	1:3:298:ARG:HD2	2.30	0.65
1:6:234:TRP:CE2	1:6:298:ARG:HD2	2.30	0.65
1:7:528:ASP:OD1	1:7:566:ARG:NH2	2.30	0.65
1:B:602:PRO:HD3	1:J:481:PRO:HG3	1.79	0.65
1:E:234:TRP:CE2	1:E:298:ARG:HD2	2.30	0.65
1:E:528:ASP:OD1	1:E:566:ARG:NH2	2.30	0.65
1:F:528:ASP:OD1	1:F:566:ARG:NH2	2.30	0.65
1:I:246:THR:OG1	1:I:677:GLN:NE2	2.27	0.65
1:O:281:TYR:HB3	1:O:647:LEU:CD1	2.26	0.65
1:O:528:ASP:OD1	1:O:566:ARG:NH2	2.30	0.65
1:R:528:ASP:OD1	1:R:566:ARG:NH2	2.30	0.65
1:W:602:PRO:HD3	1:Y:481:PRO:HG3	1.79	0.65
1:Y:528:ASP:OD1	1:Y:566:ARG:NH2	2.30	0.65
1:Z:481:PRO:HG3	1:3:602:PRO:HD3	1.79	0.65
1:Z:602:PRO:HD3	1:4:481:PRO:HG3	1.79	0.65
1:i:481:PRO:HG3	1:k:602:PRO:HD3	1.79	0.65
1:k:528:ASP:OD1	1:k:566:ARG:NH2	2.30	0.65
1:l:528:ASP:OD1	1:l:566:ARG:NH2	2.30	0.65
1:q:528:ASP:OD1	1:q:566:ARG:NH2	2.30	0.65
1:u:246:THR:OG1	1:u:677:GLN:NE2	2.27	0.65
1:w:528:ASP:OD1	1:w:566:ARG:NH2	2.30	0.65
1:1:602:PRO:HD3	1:2:481:PRO:HG3	1.79	0.65
1:6:602:PRO:HD3	1:7:481:PRO:HG3	1.79	0.65
1:7:609:ARG:HH21	1:7:609:ARG:HG3	1.60	0.65
1:C:602:PRO:HD3	1:b:481:PRO:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:602:PRO:HD3	1:N:481:PRO:HG3	1.79	0.65
1:J:602:PRO:HD3	1:L:481:PRO:HG3	1.79	0.65
1:P:528:ASP:OD1	1:P:566:ARG:NH2	2.30	0.65
1:R:281:TYR:HB3	1:R:647:LEU:CD1	2.26	0.65
1:V:602:PRO:HD3	1:e:481:PRO:HG3	1.79	0.65
1:W:609:ARG:HG3	1:W:609:ARG:NH2	2.12	0.65
1:a:602:PRO:HD3	1:8:481:PRO:HG3	1.79	0.65
1:b:528:ASP:OD1	1:b:566:ARG:NH2	2.30	0.65
1:c:481:PRO:HG3	1:p:602:PRO:HD3	1.79	0.65
1:c:528:ASP:OD1	1:c:566:ARG:NH2	2.30	0.65
1:f:481:PRO:HG3	1:g:602:PRO:HD3	1.79	0.65
1:f:528:ASP:OD1	1:f:566:ARG:NH2	2.30	0.65
1:l:281:TYR:HB3	1:l:647:LEU:CD1	2.26	0.65
1:o:281:TYR:HB3	1:o:647:LEU:CD1	2.26	0.65
1:t:481:PRO:HG3	1:v:602:PRO:HD3	1.79	0.65
1:w:234:TRP:CE2	1:w:298:ARG:HD2	2.30	0.65
1:z:481:PRO:HG3	1:2:602:PRO:HD3	1.79	0.65
1:3:528:ASP:OD1	1:3:566:ARG:NH2	2.30	0.65
1:A:602:PRO:HD3	1:G:481:PRO:HG3	1.79	0.65
1:B:281:TYR:HB3	1:B:647:LEU:CD1	2.26	0.65
1:H:281:TYR:HB3	1:H:647:LEU:CD1	2.26	0.65
1:P:234:TRP:CZ2	1:P:298:ARG:CD	2.80	0.65
1:R:246:THR:OG1	1:R:677:GLN:NE2	2.27	0.65
1:S:602:PRO:HD3	1:U:481:PRO:HG3	1.79	0.65
1:V:528:ASP:OD1	1:V:566:ARG:NH2	2.30	0.65
1:X:281:TYR:HB3	1:X:647:LEU:CD1	2.26	0.65
1:Y:609:ARG:HH21	1:Y:609:ARG:HG3	1.60	0.65
1:a:528:ASP:OD1	1:a:566:ARG:NH2	2.30	0.65
1:b:234:TRP:CZ2	1:b:298:ARG:CD	2.80	0.65
1:d:528:ASP:OD1	1:d:566:ARG:NH2	2.30	0.65
1:e:528:ASP:OD1	1:e:566:ARG:NH2	2.30	0.65
1:f:234:TRP:CZ2	1:f:298:ARG:CD	2.80	0.65
1:j:234:TRP:CZ2	1:j:298:ARG:CD	2.80	0.65
1:j:528:ASP:OD1	1:j:566:ARG:NH2	2.30	0.65
1:n:528:ASP:OD1	1:n:566:ARG:NH2	2.30	0.65
1:t:602:PRO:HD3	1:u:481:PRO:HG3	1.79	0.65
1:1:281:TYR:HB3	1:1:647:LEU:CD1	2.26	0.65
1:6:609:ARG:HG3	1:6:609:ARG:NH2	2.12	0.65
1:A:281:TYR:HB3	1:A:647:LEU:CD1	2.26	0.64
1:D:234:TRP:CZ2	1:D:298:ARG:CD	2.80	0.64
1:D:246:THR:OG1	1:D:677:GLN:NE2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:602:PRO:HD3	1:I:481:PRO:HG3	1.79	0.64
1:H:580:SER:HA	1:H:592:THR:HG22	1.80	0.64
1:O:602:PRO:HD3	1:m:481:PRO:HG3	1.79	0.64
1:S:281:TYR:HB3	1:S:647:LEU:CD1	2.26	0.64
1:b:281:TYR:HB3	1:b:647:LEU:CD1	2.26	0.64
1:e:609:ARG:HG3	1:e:609:ARG:NH2	2.12	0.64
1:m:528:ASP:OD1	1:m:566:ARG:NH2	2.30	0.64
1:p:528:ASP:OD1	1:p:566:ARG:NH2	2.30	0.64
1:r:602:PRO:HD3	1:s:481:PRO:HG3	1.79	0.64
1:s:246:THR:OG1	1:s:677:GLN:NE2	2.27	0.64
1:v:281:TYR:HB3	1:v:647:LEU:CD1	2.26	0.64
1:5:281:TYR:HB3	1:5:647:LEU:CD1	2.26	0.64
1:5:580:SER:HA	1:5:592:THR:HG22	1.80	0.64
1:A:439:ASP:O	1:G:359:GLN:HG3	1.98	0.64
1:E:439:ASP:O	1:Q:359:GLN:HG3	1.98	0.64
1:E:481:PRO:HG3	1:F:602:PRO:HD3	1.79	0.64
1:J:234:TRP:CZ2	1:J:298:ARG:CD	2.80	0.64
1:K:281:TYR:HB3	1:K:647:LEU:CD1	2.26	0.64
1:K:609:ARG:HG3	1:K:609:ARG:NH2	2.12	0.64
1:L:609:ARG:HG3	1:L:609:ARG:NH2	2.12	0.64
1:O:609:ARG:HG3	1:O:609:ARG:NH2	2.12	0.64
1:T:481:PRO:HG3	1:l:602:PRO:HD3	1.79	0.64
1:W:439:ASP:O	1:Y:359:GLN:HG3	1.98	0.64
1:Z:609:ARG:HG3	1:Z:609:ARG:NH2	2.12	0.64
1:c:609:ARG:HG3	1:c:609:ARG:NH2	2.12	0.64
1:f:281:TYR:HB3	1:f:647:LEU:CD1	2.26	0.64
1:h:234:TRP:CZ2	1:h:298:ARG:CD	2.80	0.64
1:r:281:TYR:HB3	1:r:647:LEU:CD1	2.26	0.64
1:t:359:GLN:HG3	1:v:439:ASP:O	1.98	0.64
1:w:439:ASP:O	1:x:359:GLN:HG3	1.98	0.64
1:w:481:PRO:HG3	1:y:602:PRO:HD3	1.79	0.64
1:y:580:SER:HA	1:y:592:THR:HG22	1.80	0.64
1:2:234:TRP:CZ2	1:2:298:ARG:CD	2.80	0.64
1:4:281:TYR:HB3	1:4:647:LEU:CD1	2.26	0.64
1:4:609:ARG:HG3	1:4:609:ARG:NH2	2.12	0.64
1:6:439:ASP:O	1:7:359:GLN:HG3	1.98	0.64
1:C:528:ASP:OD1	1:C:566:ARG:NH2	2.30	0.64
1:C:580:SER:HA	1:C:592:THR:HG22	1.80	0.64
1:F:580:SER:HA	1:F:592:THR:HG22	1.80	0.64
1:G:609:ARG:HG3	1:G:609:ARG:NH2	2.12	0.64
1:J:528:ASP:OD1	1:J:566:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:234:TRP:CZ2	1:M:298:ARG:CD	2.80	0.64
1:N:281:TYR:HB3	1:N:647:LEU:CD1	2.26	0.64
1:Q:234:TRP:CE2	1:Q:298:ARG:CD	2.81	0.64
1:T:528:ASP:OD1	1:T:566:ARG:NH2	2.30	0.64
1:U:246:THR:OG1	1:U:677:GLN:NE2	2.27	0.64
1:U:528:ASP:OD1	1:U:566:ARG:NH2	2.30	0.64
1:X:234:TRP:CE2	1:X:298:ARG:CD	2.81	0.64
1:g:528:ASP:OD1	1:g:566:ARG:NH2	2.30	0.64
1:i:281:TYR:HB3	1:i:647:LEU:CD1	2.26	0.64
1:k:246:THR:OG1	1:k:677:GLN:NE2	2.27	0.64
1:l:609:ARG:HG3	1:l:609:ARG:NH2	2.12	0.64
1:o:234:TRP:CE2	1:o:298:ARG:CD	2.81	0.64
1:q:246:THR:OG1	1:q:677:GLN:NE2	2.27	0.64
1:s:528:ASP:OD1	1:s:566:ARG:NH2	2.30	0.64
1:t:609:ARG:HG3	1:t:609:ARG:NH2	2.12	0.64
1:x:234:TRP:CE2	1:x:298:ARG:CD	2.81	0.64
1:z:609:ARG:HG3	1:z:609:ARG:NH2	2.12	0.64
1:5:359:GLN:HG3	1:7:439:ASP:O	1.98	0.64
1:7:246:THR:OG1	1:7:677:GLN:NE2	2.27	0.64
1:7:609:ARG:HG3	1:7:609:ARG:NH2	2.12	0.64
1:8:609:ARG:HG3	1:8:609:ARG:NH2	2.12	0.64
1:A:234:TRP:CE2	1:A:298:ARG:CD	2.81	0.64
1:E:580:SER:HA	1:E:592:THR:HG22	1.79	0.64
1:H:359:GLN:HG3	1:Y:439:ASP:O	1.98	0.64
1:K:439:ASP:O	1:a:359:GLN:HG3	1.98	0.64
1:K:528:ASP:OD1	1:K:566:ARG:NH2	2.30	0.64
1:R:609:ARG:HG3	1:R:609:ARG:NH2	2.12	0.64
1:X:481:PRO:HG3	1:e:602:PRO:HD3	1.79	0.64
1:Y:609:ARG:HG3	1:Y:609:ARG:NH2	2.12	0.64
1:c:234:TRP:CE2	1:c:298:ARG:CD	2.81	0.64
1:c:602:PRO:HD3	1:o:481:PRO:HG3	1.79	0.64
1:d:234:TRP:CE2	1:d:298:ARG:CD	2.81	0.64
1:d:281:TYR:HB3	1:d:647:LEU:CD1	2.26	0.64
1:e:234:TRP:CE2	1:e:298:ARG:CD	2.81	0.64
1:g:580:SER:HA	1:g:592:THR:HG22	1.80	0.64
1:n:234:TRP:CE2	1:n:298:ARG:CD	2.81	0.64
1:n:281:TYR:HB3	1:n:647:LEU:CD1	2.26	0.64
1:v:234:TRP:CE2	1:v:298:ARG:CD	2.81	0.64
1:w:281:TYR:HB3	1:w:647:LEU:CD1	2.26	0.64
1:w:580:SER:HA	1:w:592:THR:HG22	1.79	0.64
1:A:528:ASP:OD1	1:A:566:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:359:GLN:HG3	1:M:439:ASP:O	1.98	0.64
1:H:234:TRP:CE2	1:H:298:ARG:CD	2.81	0.64
1:N:528:ASP:OD1	1:N:566:ARG:NH2	2.30	0.64
1:N:602:PRO:HD3	1:P:481:PRO:HG3	1.79	0.64
1:O:234:TRP:CZ2	1:O:298:ARG:CD	2.80	0.64
1:O:234:TRP:CE2	1:O:298:ARG:CD	2.81	0.64
1:U:234:TRP:CE2	1:U:298:ARG:CD	2.81	0.64
1:Y:246:THR:OG1	1:Y:677:GLN:NE2	2.27	0.64
1:d:580:SER:HA	1:d:592:THR:HG22	1.80	0.64
1:h:528:ASP:OD1	1:h:566:ARG:NH2	2.30	0.64
1:i:602:PRO:HD3	1:j:481:PRO:HG3	1.79	0.64
1:q:609:ARG:HG3	1:q:609:ARG:NH2	2.12	0.64
1:r:528:ASP:OD1	1:r:566:ARG:NH2	2.30	0.64
1:s:234:TRP:CE2	1:s:298:ARG:CD	2.81	0.64
1:v:528:ASP:OD1	1:v:566:ARG:NH2	2.30	0.64
1:2:528:ASP:OD1	1:2:566:ARG:NH2	2.30	0.64
1:2:580:SER:HA	1:2:592:THR:HG22	1.80	0.64
1:3:359:GLN:HG3	1:4:439:ASP:O	1.98	0.64
1:4:528:ASP:OD1	1:4:566:ARG:NH2	2.30	0.64
1:5:234:TRP:CE2	1:5:298:ARG:CD	2.81	0.64
1:B:580:SER:HA	1:B:592:THR:HG22	1.80	0.64
1:D:481:PRO:HG3	1:P:602:PRO:HD3	1.79	0.64
1:E:281:TYR:HB3	1:E:647:LEU:CD1	2.26	0.64
1:F:529:ASP:O	1:F:529:ASP:OD1	2.16	0.64
1:J:580:SER:HA	1:J:592:THR:HG22	1.80	0.64
1:M:528:ASP:OD1	1:M:566:ARG:NH2	2.30	0.64
1:N:234:TRP:CE2	1:N:298:ARG:CD	2.81	0.64
1:R:529:ASP:OD1	1:R:529:ASP:O	2.16	0.64
1:f:602:PRO:HD3	1:h:481:PRO:HG3	1.79	0.64
1:g:359:GLN:HG3	1:h:439:ASP:O	1.98	0.64
1:g:609:ARG:HG3	1:g:609:ARG:NH2	2.12	0.64
1:i:359:GLN:HG3	1:k:439:ASP:O	1.98	0.64
1:k:281:TYR:HB3	1:k:647:LEU:CD1	2.26	0.64
1:k:580:SER:HA	1:k:592:THR:HG22	1.80	0.64
1:l:234:TRP:CZ2	1:l:298:ARG:CD	2.80	0.64
1:l:234:TRP:CE2	1:l:298:ARG:CD	2.81	0.64
1:l:529:ASP:OD1	1:l:529:ASP:O	2.16	0.64
1:n:580:SER:HA	1:n:592:THR:HG22	1.80	0.64
1:o:528:ASP:OD1	1:o:566:ARG:NH2	2.30	0.64
1:q:529:ASP:O	1:q:529:ASP:OD1	2.16	0.64
1:q:580:SER:HA	1:q:592:THR:HG22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:529:ASP:O	1:y:529:ASP:OD1	2.16	0.64
1:1:580:SER:HA	1:1:592:THR:HG22	1.80	0.64
1:3:234:TRP:CZ2	1:3:298:ARG:CD	2.80	0.64
1:8:580:SER:HA	1:8:592:THR:HG22	1.79	0.64
1:A:481:PRO:HG3	1:I:602:PRO:HD3	1.79	0.64
1:B:343:PHE:HB3	1:B:400:SER:HA	1.80	0.64
1:C:609:ARG:HG3	1:C:609:ARG:NH2	2.12	0.64
1:D:234:TRP:CE2	1:D:298:ARG:CD	2.81	0.64
1:D:281:TYR:HB3	1:D:647:LEU:CD1	2.26	0.64
1:D:439:ASP:O	1:N:359:GLN:HG3	1.98	0.64
1:D:580:SER:HA	1:D:592:THR:HG22	1.80	0.64
1:E:343:PHE:HB3	1:E:400:SER:HA	1.80	0.64
1:E:359:GLN:HG3	1:F:439:ASP:O	1.98	0.64
1:J:609:ARG:HG3	1:J:609:ARG:NH2	2.12	0.64
1:K:529:ASP:O	1:K:529:ASP:OD1	2.16	0.64
1:L:529:ASP:OD1	1:L:529:ASP:O	2.16	0.64
1:M:481:PRO:HG3	1:b:602:PRO:HD3	1.79	0.64
1:N:529:ASP:O	1:N:529:ASP:OD1	2.16	0.64
1:O:529:ASP:OD1	1:O:529:ASP:O	2.16	0.64
1:P:580:SER:HA	1:P:592:THR:HG22	1.80	0.64
1:R:580:SER:HA	1:R:592:THR:HG22	1.80	0.64
1:S:528:ASP:OD1	1:S:566:ARG:NH2	2.30	0.64
1:V:580:SER:HA	1:V:592:THR:HG22	1.80	0.64
1:X:234:TRP:CZ2	1:X:298:ARG:CD	2.80	0.64
1:Z:580:SER:HA	1:Z:592:THR:HG22	1.79	0.64
1:a:234:TRP:CZ2	1:a:298:ARG:CD	2.80	0.64
1:c:580:SER:HA	1:c:592:THR:HG22	1.80	0.64
1:d:439:ASP:O	1:l:359:GLN:HG3	1.98	0.64
1:e:580:SER:HA	1:e:592:THR:HG22	1.80	0.64
1:i:234:TRP:CE2	1:i:298:ARG:CD	2.81	0.64
1:i:528:ASP:OD1	1:i:566:ARG:NH2	2.30	0.64
1:i:529:ASP:O	1:i:529:ASP:OD1	2.16	0.64
1:j:602:PRO:HD3	1:k:481:PRO:HG3	1.79	0.64
1:l:580:SER:HA	1:l:592:THR:HG22	1.79	0.64
1:o:234:TRP:CZ2	1:o:298:ARG:CD	2.80	0.64
1:p:580:SER:HA	1:p:592:THR:HG22	1.80	0.64
1:v:609:ARG:HG3	1:v:609:ARG:NH2	2.12	0.64
1:w:343:PHE:HB3	1:w:400:SER:HA	1.80	0.64
1:w:359:GLN:HG3	1:y:439:ASP:O	1.98	0.64
1:x:602:PRO:HD3	1:y:481:PRO:HG3	1.79	0.64
1:x:609:ARG:HG3	1:x:609:ARG:NH2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:343:PHE:HB3	1:1:400:SER:HA	1.80	0.64
1:4:529:ASP:OD1	1:4:529:ASP:O	2.16	0.64
1:A:609:ARG:HG3	1:A:609:ARG:NH2	2.12	0.64
1:B:234:TRP:CZ2	1:B:298:ARG:CD	2.80	0.64
1:B:234:TRP:CE2	1:B:298:ARG:CD	2.81	0.64
1:F:481:PRO:HG3	1:Q:602:PRO:HD3	1.79	0.64
1:G:234:TRP:CE2	1:G:298:ARG:CD	2.81	0.64
1:G:529:ASP:OD1	1:G:529:ASP:O	2.16	0.64
1:I:343:PHE:HB3	1:I:400:SER:HA	1.80	0.64
1:K:234:TRP:CZ2	1:K:298:ARG:CD	2.80	0.64
1:N:580:SER:HA	1:N:592:THR:HG22	1.80	0.64
1:O:359:GLN:HG3	1:n:439:ASP:O	1.98	0.64
1:O:580:SER:HA	1:O:592:THR:HG22	1.79	0.64
1:P:343:PHE:HB3	1:P:400:SER:HA	1.80	0.64
1:Q:609:ARG:HG3	1:Q:609:ARG:NH2	2.12	0.64
1:U:609:ARG:HG3	1:U:609:ARG:NH2	2.12	0.64
1:X:528:ASP:OD1	1:X:566:ARG:NH2	2.30	0.64
1:i:580:SER:HA	1:i:592:THR:HG22	1.80	0.64
1:j:343:PHE:HB3	1:j:400:SER:HA	1.80	0.64
1:j:580:SER:HA	1:j:592:THR:HG22	1.80	0.64
1:k:234:TRP:CE2	1:k:298:ARG:CD	2.81	0.64
1:s:609:ARG:HG3	1:s:609:ARG:NH2	2.12	0.64
1:t:529:ASP:OD1	1:t:529:ASP:O	2.16	0.64
1:u:343:PHE:HB3	1:u:400:SER:HA	1.80	0.64
1:u:602:PRO:HD3	1:v:481:PRO:HG3	1.79	0.64
1:z:529:ASP:OD1	1:z:529:ASP:O	2.16	0.64
1:1:234:TRP:CZ2	1:1:298:ARG:CD	2.80	0.64
1:2:609:ARG:HG3	1:2:609:ARG:NH2	2.12	0.64
1:4:234:TRP:CZ2	1:4:298:ARG:CD	2.80	0.64
1:C:343:PHE:HB3	1:C:400:SER:HA	1.80	0.64
1:G:580:SER:HA	1:G:592:THR:HG22	1.79	0.64
1:I:580:SER:HA	1:I:592:THR:HG22	1.80	0.64
1:M:359:GLN:HG3	1:b:439:ASP:O	1.98	0.64
1:Y:234:TRP:CE2	1:Y:298:ARG:CD	2.81	0.64
1:a:529:ASP:OD1	1:a:529:ASP:O	2.16	0.64
1:c:246:THR:OG1	1:c:677:GLN:NE2	2.27	0.64
1:m:602:PRO:HD3	1:n:481:PRO:HG3	1.79	0.64
1:t:234:TRP:CE2	1:t:298:ARG:CD	2.81	0.64
1:1:234:TRP:CE2	1:1:298:ARG:CD	2.81	0.64
1:3:529:ASP:O	1:3:529:ASP:OD1	2.16	0.64
1:G:343:PHE:HB3	1:G:400:SER:HA	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:439:ASP:O	1:I:359:GLN:HG3	1.98	0.64
1:L:234:TRP:CE2	1:L:298:ARG:CD	2.81	0.64
1:T:602:PRO:HD3	1:d:481:PRO:HG3	1.79	0.64
1:W:529:ASP:OD1	1:W:529:ASP:O	2.16	0.64
1:Z:528:ASP:OD1	1:Z:566:ARG:NH2	2.30	0.64
1:d:609:ARG:HG3	1:d:609:ARG:NH2	2.12	0.64
1:e:246:THR:OG1	1:e:677:GLN:NE2	2.27	0.64
1:f:439:ASP:O	1:h:359:GLN:HG3	1.98	0.64
1:f:609:ARG:HG3	1:f:609:ARG:NH2	2.12	0.64
1:g:234:TRP:CE2	1:g:298:ARG:CD	2.81	0.64
1:g:343:PHE:HB3	1:g:400:SER:HA	1.80	0.64
1:k:343:PHE:HB3	1:k:400:SER:HA	1.80	0.64
1:o:609:ARG:HG3	1:o:609:ARG:NH2	2.12	0.64
1:t:439:ASP:O	1:u:359:GLN:HG3	1.98	0.64
1:t:580:SER:HA	1:t:592:THR:HG22	1.79	0.64
1:x:528:ASP:OD1	1:x:566:ARG:NH2	2.30	0.64
1:z:234:TRP:CE2	1:z:298:ARG:CD	2.81	0.64
1:z:359:GLN:HG3	1:2:439:ASP:O	1.98	0.64
1:5:234:TRP:CZ2	1:5:298:ARG:CD	2.80	0.64
1:6:529:ASP:OD1	1:6:529:ASP:O	2.16	0.64
1:7:234:TRP:CE2	1:7:298:ARG:CD	2.81	0.64
1:A:529:ASP:OD1	1:A:529:ASP:O	2.16	0.63
1:C:234:TRP:CE2	1:C:298:ARG:CD	2.81	0.63
1:C:439:ASP:O	1:b:359:GLN:HG3	1.98	0.63
1:D:343:PHE:HB3	1:D:400:SER:HA	1.80	0.63
1:J:234:TRP:CE2	1:J:298:ARG:CD	2.81	0.63
1:N:234:TRP:CZ2	1:N:298:ARG:CD	2.80	0.63
1:N:343:PHE:HB3	1:N:400:SER:HA	1.80	0.63
1:V:234:TRP:CE2	1:V:298:ARG:CD	2.81	0.63
1:X:609:ARG:HG3	1:X:609:ARG:NH2	2.12	0.63
1:b:609:ARG:HG3	1:b:609:ARG:NH2	2.12	0.63
1:i:234:TRP:CZ2	1:i:298:ARG:CD	2.80	0.63
1:i:343:PHE:HB3	1:i:400:SER:HA	1.80	0.63
1:n:609:ARG:HG3	1:n:609:ARG:NH2	2.12	0.63
1:q:481:PRO:HG3	1:s:602:PRO:HD3	1.79	0.63
1:u:580:SER:HA	1:u:592:THR:HG22	1.80	0.63
1:v:529:ASP:O	1:v:529:ASP:OD1	2.16	0.63
1:z:246:THR:OG1	1:z:677:GLN:NE2	2.27	0.63
1:2:234:TRP:CE2	1:2:298:ARG:CD	2.81	0.63
1:2:343:PHE:HB3	1:2:400:SER:HA	1.80	0.63
1:4:580:SER:HA	1:4:592:THR:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:234:TRP:CZ2	1:8:298:ARG:CD	2.80	0.63
1:H:234:TRP:CZ2	1:H:298:ARG:CD	2.80	0.63
1:J:343:PHE:HB3	1:J:400:SER:HA	1.80	0.63
1:J:439:ASP:O	1:L:359:GLN:HG3	1.98	0.63
1:K:580:SER:HA	1:K:592:THR:HG22	1.80	0.63
1:L:528:ASP:OD1	1:L:566:ARG:NH2	2.30	0.63
1:N:439:ASP:O	1:P:359:GLN:HG3	1.98	0.63
1:O:343:PHE:HB3	1:O:400:SER:HA	1.80	0.63
1:Q:528:ASP:OD1	1:Q:566:ARG:NH2	2.30	0.63
1:R:481:PRO:HG3	1:U:602:PRO:HD3	1.79	0.63
1:V:609:ARG:HG3	1:V:609:ARG:NH2	2.12	0.63
1:W:580:SER:HA	1:W:592:THR:HG22	1.80	0.63
1:X:343:PHE:HB3	1:X:400:SER:HA	1.80	0.63
1:Z:234:TRP:CZ2	1:Z:298:ARG:CD	2.80	0.63
1:Z:234:TRP:CE2	1:Z:298:ARG:CD	2.81	0.63
1:l:343:PHE:HB3	1:l:400:SER:HA	1.80	0.63
1:o:343:PHE:HB3	1:o:400:SER:HA	1.80	0.63
1:p:234:TRP:CE2	1:p:298:ARG:CD	2.81	0.63
1:t:343:PHE:HB3	1:t:400:SER:HA	1.80	0.63
1:u:609:ARG:HG3	1:u:609:ARG:NH2	2.12	0.63
1:1:439:ASP:O	1:2:359:GLN:HG3	1.98	0.63
1:6:580:SER:HA	1:6:592:THR:HG22	1.80	0.63
1:7:343:PHE:HB3	1:7:400:SER:HA	1.80	0.63
1:8:234:TRP:CE2	1:8:298:ARG:CD	2.81	0.63
1:8:528:ASP:OD1	1:8:566:ARG:NH2	2.30	0.63
1:E:234:TRP:CE2	1:E:298:ARG:CD	2.81	0.63
1:F:343:PHE:HB3	1:F:400:SER:HA	1.80	0.63
1:H:439:ASP:O	1:W:359:GLN:HG3	1.98	0.63
1:K:343:PHE:HB3	1:K:400:SER:HA	1.80	0.63
1:L:246:THR:OG1	1:L:677:GLN:NE2	2.27	0.63
1:R:343:PHE:HB3	1:R:400:SER:HA	1.80	0.63
1:R:439:ASP:O	1:S:359:GLN:HG3	1.98	0.63
1:S:234:TRP:CE2	1:S:298:ARG:CD	2.81	0.63
1:S:609:ARG:HG3	1:S:609:ARG:NH2	2.12	0.63
1:T:529:ASP:OD1	1:T:529:ASP:O	2.16	0.63
1:Y:343:PHE:HB3	1:Y:400:SER:HA	1.80	0.63
1:Y:529:ASP:OD1	1:Y:529:ASP:O	2.16	0.63
1:c:439:ASP:O	1:o:359:GLN:HG3	1.98	0.63
1:f:234:TRP:CE2	1:f:298:ARG:CD	2.81	0.63
1:f:359:GLN:HG3	1:g:439:ASP:O	1.98	0.63
1:g:481:PRO:HG3	1:h:602:PRO:HD3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:529:ASP:OD1	1:m:529:ASP:O	2.16	0.63
1:p:609:ARG:HG3	1:p:609:ARG:NH2	2.12	0.63
1:q:343:PHE:HB3	1:q:400:SER:HA	1.80	0.63
1:q:439:ASP:O	1:r:359:GLN:HG3	1.98	0.63
1:v:580:SER:HA	1:v:592:THR:HG22	1.80	0.63
1:4:343:PHE:HB3	1:4:400:SER:HA	1.80	0.63
1:5:439:ASP:O	1:6:359:GLN:HG3	1.98	0.63
1:7:529:ASP:OD1	1:7:529:ASP:O	2.16	0.63
1:A:580:SER:HA	1:A:592:THR:HG22	1.80	0.63
1:B:359:GLN:HG3	1:L:439:ASP:O	1.98	0.63
1:B:439:ASP:O	1:J:359:GLN:HG3	1.98	0.63
1:B:528:ASP:OD1	1:B:566:ARG:NH2	2.30	0.63
1:G:246:THR:OG1	1:G:677:GLN:NE2	2.27	0.63
1:I:609:ARG:HG3	1:I:609:ARG:NH2	2.12	0.63
1:O:439:ASP:O	1:m:359:GLN:HG3	1.98	0.63
1:S:234:TRP:CZ2	1:S:298:ARG:CD	2.80	0.63
1:S:439:ASP:O	1:U:359:GLN:HG3	1.98	0.63
1:U:343:PHE:HB3	1:U:400:SER:HA	1.80	0.63
1:W:234:TRP:CE2	1:W:298:ARG:CD	2.81	0.63
1:X:359:GLN:HG3	1:e:439:ASP:O	1.98	0.63
1:a:580:SER:HA	1:a:592:THR:HG22	1.80	0.63
1:b:234:TRP:CE2	1:b:298:ARG:CD	2.81	0.63
1:h:234:TRP:CE2	1:h:298:ARG:CD	2.81	0.63
1:i:439:ASP:O	1:j:359:GLN:HG3	1.98	0.63
1:r:234:TRP:CE2	1:r:298:ARG:CD	2.81	0.63
1:r:439:ASP:O	1:s:359:GLN:HG3	1.98	0.63
1:t:246:THR:OG1	1:t:677:GLN:NE2	2.27	0.63
1:u:439:ASP:O	1:v:359:GLN:HG3	1.98	0.63
1:w:234:TRP:CE2	1:w:298:ARG:CD	2.81	0.63
1:w:609:ARG:HG3	1:w:609:ARG:NH2	2.12	0.63
1:y:343:PHE:HB3	1:y:400:SER:HA	1.80	0.63
1:z:234:TRP:CZ2	1:z:298:ARG:CD	2.80	0.63
1:z:528:ASP:OD1	1:z:566:ARG:NH2	2.30	0.63
1:3:580:SER:HA	1:3:592:THR:HG22	1.80	0.63
1:6:234:TRP:CE2	1:6:298:ARG:CD	2.81	0.63
1:A:359:GLN:HG3	1:I:439:ASP:O	1.98	0.63
1:C:481:PRO:HG3	1:M:602:PRO:HD3	1.79	0.63
1:E:609:ARG:HG3	1:E:609:ARG:NH2	2.12	0.63
1:F:240:ILE:HG21	1:F:681:GLU:OE2	1.99	0.63
1:I:234:TRP:CE2	1:I:298:ARG:CD	2.81	0.63
1:K:234:TRP:CE2	1:K:298:ARG:CD	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:234:TRP:CZ2	1:L:298:ARG:CD	2.80	0.63
1:M:234:TRP:CE2	1:M:298:ARG:CD	2.81	0.63
1:O:481:PRO:HG3	1:n:602:PRO:HD3	1.79	0.63
1:R:234:TRP:CE2	1:R:298:ARG:CD	2.81	0.63
1:T:343:PHE:HB3	1:T:400:SER:HA	1.80	0.63
1:a:234:TRP:CE2	1:a:298:ARG:CD	2.81	0.63
1:b:343:PHE:HB3	1:b:400:SER:HA	1.80	0.63
1:c:234:TRP:CZ2	1:c:298:ARG:CD	2.80	0.63
1:d:234:TRP:CZ2	1:d:298:ARG:CD	2.80	0.63
1:d:240:ILE:HG21	1:d:681:GLU:OE2	1.99	0.63
1:f:343:PHE:HB3	1:f:400:SER:HA	1.80	0.63
1:n:240:ILE:HG21	1:n:681:GLU:OE2	1.99	0.63
1:o:602:PRO:HD3	1:p:481:PRO:HG3	1.79	0.63
1:q:234:TRP:CE2	1:q:298:ARG:CD	2.81	0.63
1:r:234:TRP:CZ2	1:r:298:ARG:CD	2.80	0.63
1:s:343:PHE:HB3	1:s:400:SER:HA	1.80	0.63
1:u:234:TRP:CE2	1:u:298:ARG:CD	2.81	0.63
1:y:240:ILE:HG21	1:y:681:GLU:OE2	1.99	0.63
1:z:343:PHE:HB3	1:z:400:SER:HA	1.80	0.63
1:z:439:ASP:O	1:1:359:GLN:HG3	1.98	0.63
1:1:528:ASP:OD1	1:1:566:ARG:NH2	2.30	0.63
1:4:234:TRP:CE2	1:4:298:ARG:CD	2.81	0.63
1:6:234:TRP:CZ2	1:6:298:ARG:CD	2.80	0.63
1:B:481:PRO:HG3	1:L:602:PRO:HD3	1.79	0.63
1:D:359:GLN:HG3	1:P:439:ASP:O	1.98	0.63
1:D:529:ASP:OD1	1:D:529:ASP:O	2.16	0.63
1:F:234:TRP:CE2	1:F:298:ARG:CD	2.81	0.63
1:F:359:GLN:HG3	1:Q:439:ASP:O	1.98	0.63
1:F:609:ARG:HG3	1:F:609:ARG:NH2	2.12	0.63
1:H:246:THR:OG1	1:H:677:GLN:NE2	2.27	0.63
1:H:481:PRO:HG3	1:Y:602:PRO:HD3	1.79	0.63
1:L:343:PHE:HB3	1:L:400:SER:HA	1.80	0.63
1:P:240:ILE:HG21	1:P:681:GLU:OE2	1.99	0.63
1:T:359:GLN:HG3	1:l:439:ASP:O	1.98	0.63
1:T:580:SER:HA	1:T:592:THR:HG22	1.80	0.63
1:V:240:ILE:HG21	1:V:681:GLU:OE2	1.99	0.63
1:V:439:ASP:O	1:e:359:GLN:HG3	1.98	0.63
1:V:481:PRO:HG3	1:X:602:PRO:HD3	1.79	0.63
1:V:529:ASP:O	1:V:529:ASP:OD1	2.16	0.63
1:W:234:TRP:CZ2	1:W:298:ARG:CD	2.80	0.63
1:d:602:PRO:HD3	1:l:481:PRO:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:529:ASP:OD1	1:g:529:ASP:O	2.16	0.63
1:j:240:ILE:HG21	1:j:681:GLU:OE2	1.99	0.63
1:j:439:ASP:O	1:k:359:GLN:HG3	1.98	0.63
1:k:529:ASP:O	1:k:529:ASP:OD1	2.16	0.63
1:m:234:TRP:CE2	1:m:298:ARG:CD	2.81	0.63
1:m:343:PHE:HB3	1:m:400:SER:HA	1.80	0.63
1:p:529:ASP:OD1	1:p:529:ASP:O	2.16	0.63
1:q:602:PRO:HD3	1:r:481:PRO:HG3	1.79	0.63
1:r:240:ILE:HG21	1:r:681:GLU:OE2	1.99	0.63
1:r:609:ARG:HG3	1:r:609:ARG:NH2	2.12	0.63
1:w:240:ILE:HG21	1:w:681:GLU:OE2	1.99	0.63
1:x:439:ASP:O	1:y:359:GLN:HG3	1.98	0.63
1:z:602:PRO:HD3	1:1:481:PRO:HG3	1.79	0.63
1:1:240:ILE:HG21	1:1:681:GLU:OE2	1.99	0.63
1:3:234:TRP:CE2	1:3:298:ARG:CD	2.81	0.63
1:B:240:ILE:HG21	1:B:681:GLU:OE2	1.99	0.63
1:C:529:ASP:O	1:C:529:ASP:OD1	2.16	0.63
1:E:240:ILE:HG21	1:E:681:GLU:OE2	1.99	0.63
1:E:602:PRO:HD3	1:Q:481:PRO:HG3	1.79	0.63
1:K:359:GLN:HG3	1:8:439:ASP:O	1.98	0.63
1:K:602:PRO:HD3	1:a:481:PRO:HG3	1.79	0.63
1:R:602:PRO:HD3	1:S:481:PRO:HG3	1.79	0.63
1:S:240:ILE:HG21	1:S:681:GLU:OE2	1.99	0.63
1:T:240:ILE:HG21	1:T:681:GLU:OE2	1.99	0.63
1:Z:359:GLN:HG3	1:3:439:ASP:O	1.98	0.63
1:e:234:TRP:CZ2	1:e:298:ARG:CD	2.80	0.63
1:h:246:THR:OG1	1:h:677:GLN:NE2	2.27	0.63
1:n:234:TRP:CZ2	1:n:298:ARG:CD	2.80	0.63
1:n:529:ASP:O	1:n:529:ASP:OD1	2.16	0.63
1:p:240:ILE:HG21	1:p:681:GLU:OE2	1.99	0.63
1:q:240:ILE:HG21	1:q:681:GLU:OE2	1.99	0.63
1:s:529:ASP:OD1	1:s:529:ASP:O	2.16	0.63
1:w:602:PRO:HD3	1:x:481:PRO:HG3	1.79	0.63
1:y:234:TRP:CE2	1:y:298:ARG:CD	2.81	0.63
1:3:481:PRO:HG3	1:4:602:PRO:HD3	1.79	0.63
1:5:481:PRO:HG3	1:7:602:PRO:HD3	1.79	0.63
1:6:246:THR:OG1	1:6:677:GLN:NE2	2.27	0.63
1:H:529:ASP:O	1:H:529:ASP:OD1	2.16	0.63
1:K:240:ILE:HG21	1:K:681:GLU:OE2	1.99	0.63
1:L:580:SER:HA	1:L:592:THR:HG22	1.80	0.63
1:M:343:PHE:HB3	1:M:400:SER:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:234:TRP:CE2	1:P:298:ARG:CD	2.81	0.63
1:Q:240:ILE:HG21	1:Q:681:GLU:OE2	1.99	0.63
1:R:240:ILE:HG21	1:R:681:GLU:OE2	1.99	0.63
1:T:234:TRP:CE2	1:T:298:ARG:CD	2.81	0.63
1:U:529:ASP:OD1	1:U:529:ASP:O	2.16	0.63
1:Z:246:THR:OG1	1:Z:677:GLN:NE2	2.27	0.63
1:a:439:ASP:O	1:8:359:GLN:HG3	1.98	0.63
1:d:529:ASP:OD1	1:d:529:ASP:O	2.16	0.63
1:j:609:ARG:HG3	1:j:609:ARG:NH2	2.12	0.63
1:m:240:ILE:HG21	1:m:681:GLU:OE2	1.99	0.63
1:m:439:ASP:O	1:n:359:GLN:HG3	1.98	0.63
1:m:580:SER:HA	1:m:592:THR:HG22	1.80	0.63
1:q:234:TRP:CZ2	1:q:298:ARG:CD	2.80	0.63
1:q:359:GLN:HG3	1:s:439:ASP:O	1.98	0.63
1:s:580:SER:HA	1:s:592:THR:HG22	1.80	0.63
1:u:529:ASP:OD1	1:u:529:ASP:O	2.16	0.63
1:w:234:TRP:CZ2	1:w:298:ARG:CD	2.80	0.63
1:4:240:ILE:HG21	1:4:681:GLU:OE2	1.99	0.63
1:5:529:ASP:OD1	1:5:529:ASP:O	2.16	0.63
1:C:234:TRP:CZ2	1:C:298:ARG:CD	2.80	0.63
1:J:240:ILE:HG21	1:J:681:GLU:OE2	1.99	0.63
1:M:246:THR:OG1	1:M:677:GLN:NE2	2.27	0.63
1:M:580:SER:HA	1:M:592:THR:HG22	1.79	0.63
1:S:580:SER:HA	1:S:592:THR:HG22	1.80	0.63
1:T:439:ASP:O	1:d:359:GLN:HG3	1.98	0.63
1:V:234:TRP:CZ2	1:V:298:ARG:CD	2.80	0.63
1:W:246:THR:OG1	1:W:677:GLN:NE2	2.27	0.63
1:Y:580:SER:HA	1:Y:592:THR:HG22	1.80	0.63
1:Z:439:ASP:O	1:4:359:GLN:HG3	1.98	0.63
1:c:343:PHE:HB3	1:c:400:SER:HA	1.80	0.63
1:c:359:GLN:HG3	1:p:439:ASP:O	1.98	0.63
1:d:343:PHE:HB3	1:d:400:SER:HA	1.80	0.63
1:e:343:PHE:HB3	1:e:400:SER:HA	1.80	0.63
1:g:234:TRP:CZ2	1:g:298:ARG:CD	2.80	0.63
1:h:343:PHE:HB3	1:h:400:SER:HA	1.80	0.63
1:h:580:SER:HA	1:h:592:THR:HG22	1.79	0.63
1:r:580:SER:HA	1:r:592:THR:HG22	1.80	0.63
1:x:240:ILE:HG21	1:x:681:GLU:OE2	1.99	0.63
1:z:580:SER:HA	1:z:592:THR:HG22	1.80	0.63
1:5:246:THR:OG1	1:5:677:GLN:NE2	2.27	0.63
1:7:580:SER:HA	1:7:592:THR:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:PHE:HB3	1:A:400:SER:HA	1.80	0.62
1:B:529:ASP:OD1	1:B:529:ASP:O	2.16	0.62
1:D:609:ARG:HG3	1:D:609:ARG:NH2	2.12	0.62
1:E:234:TRP:CZ2	1:E:298:ARG:CD	2.80	0.62
1:E:529:ASP:OD1	1:E:529:ASP:O	2.16	0.62
1:I:529:ASP:OD1	1:I:529:ASP:O	2.16	0.62
1:P:609:ARG:HG3	1:P:609:ARG:NH2	2.12	0.62
1:R:234:TRP:CZ2	1:R:298:ARG:CD	2.80	0.62
1:U:240:ILE:HG21	1:U:681:GLU:OE2	1.99	0.62
1:U:580:SER:HA	1:U:592:THR:HG22	1.80	0.62
1:V:359:GLN:HG3	1:X:439:ASP:O	1.98	0.62
1:X:240:ILE:HG21	1:X:681:GLU:OE2	1.99	0.62
1:c:529:ASP:O	1:c:529:ASP:OD1	2.16	0.62
1:e:529:ASP:OD1	1:e:529:ASP:O	2.16	0.62
1:f:529:ASP:O	1:f:529:ASP:OD1	2.16	0.62
1:j:234:TRP:CE2	1:j:298:ARG:CD	2.81	0.62
1:n:343:PHE:HB3	1:n:400:SER:HA	1.80	0.62
1:p:234:TRP:CZ2	1:p:298:ARG:CD	2.80	0.62
1:s:234:TRP:CZ2	1:s:298:ARG:CD	2.80	0.62
1:s:240:ILE:HG21	1:s:681:GLU:OE2	1.99	0.62
1:t:240:ILE:HG21	1:t:681:GLU:OE2	1.99	0.62
1:v:234:TRP:CZ2	1:v:298:ARG:CD	2.80	0.62
1:v:240:ILE:HG21	1:v:681:GLU:OE2	1.99	0.62
1:x:234:TRP:CZ2	1:x:298:ARG:CD	2.80	0.62
1:x:529:ASP:OD1	1:x:529:ASP:O	2.16	0.62
1:y:234:TRP:CZ2	1:y:298:ARG:CD	2.80	0.62
1:1:529:ASP:OD1	1:1:529:ASP:O	2.16	0.62
1:2:240:ILE:HG21	1:2:681:GLU:OE2	1.99	0.62
1:3:343:PHE:HB3	1:3:400:SER:HA	1.80	0.62
1:5:240:ILE:HG21	1:5:681:GLU:OE2	1.99	0.62
1:8:240:ILE:HG21	1:8:681:GLU:OE2	1.99	0.62
1:A:240:ILE:HG21	1:A:681:GLU:OE2	1.99	0.62
1:F:234:TRP:CZ2	1:F:298:ARG:CD	2.80	0.62
1:G:240:ILE:HG21	1:G:681:GLU:OE2	1.99	0.62
1:H:240:ILE:HG21	1:H:681:GLU:OE2	1.99	0.62
1:Q:580:SER:HA	1:Q:592:THR:HG22	1.80	0.62
1:R:359:GLN:HG3	1:U:439:ASP:O	1.98	0.62
1:Z:240:ILE:HG21	1:Z:681:GLU:OE2	1.99	0.62
1:a:343:PHE:HB3	1:a:400:SER:HA	1.80	0.62
1:b:529:ASP:OD1	1:b:529:ASP:O	2.16	0.62
1:f:240:ILE:HG21	1:f:681:GLU:OE2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:240:ILE:HG21	1:o:681:GLU:OE2	1.99	0.62
1:o:439:ASP:O	1:p:359:GLN:HG3	1.98	0.62
1:u:234:TRP:CZ2	1:u:298:ARG:CD	2.80	0.62
1:v:343:PHE:HB3	1:v:400:SER:HA	1.80	0.62
1:w:529:ASP:OD1	1:w:529:ASP:O	2.16	0.62
1:8:246:THR:OG1	1:8:677:GLN:NE2	2.27	0.62
1:A:234:TRP:CZ2	1:A:298:ARG:CD	2.80	0.62
1:A:481:PRO:HB2	1:I:601:LEU:HD23	1.82	0.62
1:A:601:LEU:HD23	1:G:481:PRO:HB2	1.82	0.62
1:D:240:ILE:HG21	1:D:681:GLU:OE2	1.99	0.62
1:Q:234:TRP:CZ2	1:Q:298:ARG:CD	2.80	0.62
1:Q:529:ASP:OD1	1:Q:529:ASP:O	2.16	0.62
1:U:234:TRP:CZ2	1:U:298:ARG:CD	2.80	0.62
1:X:481:PRO:HB2	1:e:601:LEU:HD23	1.82	0.62
1:Z:343:PHE:HB3	1:Z:400:SER:HA	1.80	0.62
1:Z:529:ASP:OD1	1:Z:529:ASP:O	2.16	0.62
1:b:240:ILE:HG21	1:b:681:GLU:OE2	1.99	0.62
1:c:601:LEU:HD23	1:o:481:PRO:HB2	1.82	0.62
1:k:609:ARG:HG3	1:k:609:ARG:NH2	2.12	0.62
1:r:529:ASP:OD1	1:r:529:ASP:O	2.16	0.62
1:t:481:PRO:HB2	1:v:601:LEU:HD23	1.82	0.62
1:u:601:LEU:HD23	1:v:481:PRO:HB2	1.82	0.62
1:8:529:ASP:O	1:8:529:ASP:OD1	2.16	0.62
1:E:246:THR:OG1	1:E:677:GLN:NE2	2.27	0.62
1:E:481:PRO:HB2	1:F:601:LEU:HD23	1.82	0.62
1:I:234:TRP:CZ2	1:I:298:ARG:CD	2.80	0.62
1:J:529:ASP:OD1	1:J:529:ASP:O	2.16	0.62
1:L:240:ILE:HG21	1:L:681:GLU:OE2	1.99	0.62
1:S:529:ASP:O	1:S:529:ASP:OD1	2.16	0.62
1:W:240:ILE:HG21	1:W:681:GLU:OE2	1.99	0.62
1:i:609:ARG:HG3	1:i:609:ARG:NH2	2.12	0.62
1:o:529:ASP:OD1	1:o:529:ASP:O	2.16	0.62
1:w:246:THR:OG1	1:w:677:GLN:NE2	2.27	0.62
1:x:580:SER:HA	1:x:592:THR:HG22	1.80	0.62
1:3:240:ILE:HG21	1:3:681:GLU:OE2	1.99	0.62
1:5:602:PRO:HD3	1:6:481:PRO:HG3	1.79	0.62
1:8:343:PHE:HB3	1:8:400:SER:HA	1.80	0.62
1:G:601:LEU:HD23	1:I:481:PRO:HB2	1.82	0.62
1:X:529:ASP:OD1	1:X:529:ASP:O	2.16	0.62
1:a:240:ILE:HG21	1:a:681:GLU:OE2	1.99	0.62
1:c:240:ILE:HG21	1:c:681:GLU:OE2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:240:ILE:HG21	1:e:681:GLU:OE2	1.99	0.62
1:f:580:SER:HA	1:f:592:THR:HG22	1.80	0.62
1:h:529:ASP:OD1	1:h:529:ASP:O	2.16	0.62
1:j:529:ASP:OD1	1:j:529:ASP:O	2.16	0.62
1:k:240:ILE:HG21	1:k:681:GLU:OE2	1.99	0.62
1:t:601:LEU:HD23	1:u:481:PRO:HB2	1.82	0.62
1:w:481:PRO:HB2	1:y:601:LEU:HD23	1.82	0.62
1:z:601:LEU:HD23	1:1:481:PRO:HB2	1.82	0.62
1:1:601:LEU:HD23	1:2:481:PRO:HB2	1.82	0.62
1:2:529:ASP:OD1	1:2:529:ASP:O	2.16	0.62
1:6:240:ILE:HG21	1:6:681:GLU:OE2	1.99	0.62
1:B:481:PRO:HB2	1:L:601:LEU:HD23	1.82	0.62
1:B:601:LEU:HD23	1:J:481:PRO:HB2	1.82	0.62
1:H:602:PRO:HD3	1:W:481:PRO:HG3	1.79	0.62
1:N:240:ILE:HG21	1:N:681:GLU:OE2	1.99	0.62
1:N:609:ARG:HG3	1:N:609:ARG:NH2	2.12	0.62
1:Q:343:PHE:HB3	1:Q:400:SER:HA	1.80	0.62
1:b:580:SER:HA	1:b:592:THR:HG22	1.80	0.62
1:x:343:PHE:HB3	1:x:400:SER:HA	1.80	0.62
1:z:240:ILE:HG21	1:z:681:GLU:OE2	1.99	0.62
1:5:609:ARG:HG3	1:5:609:ARG:NH2	2.12	0.62
1:7:234:TRP:CZ2	1:7:298:ARG:CD	2.80	0.62
1:M:529:ASP:OD1	1:M:529:ASP:O	2.16	0.62
1:P:529:ASP:OD1	1:P:529:ASP:O	2.16	0.62
1:T:601:LEU:HD23	1:d:481:PRO:HB2	1.82	0.62
1:V:343:PHE:HB3	1:V:400:SER:HA	1.80	0.62
1:W:343:PHE:HB3	1:W:400:SER:HA	1.80	0.62
1:i:240:ILE:HG21	1:i:681:GLU:OE2	1.99	0.62
1:m:601:LEU:HD23	1:n:481:PRO:HB2	1.82	0.62
1:6:343:PHE:HB3	1:6:400:SER:HA	1.80	0.62
1:m:609:ARG:HG3	1:m:609:ARG:NH2	2.12	0.62
1:o:601:LEU:HD23	1:p:481:PRO:HB2	1.82	0.62
1:p:343:PHE:HB3	1:p:400:SER:HA	1.80	0.62
1:r:343:PHE:HB3	1:r:400:SER:HA	1.80	0.62
1:A:706:LYS:HD2	1:E:385:GLN:OE1	2.00	0.62
1:B:284:PHE:HB3	1:B:362:LEU:HD13	1.82	0.62
1:H:392:PHE:CD2	1:Z:713:THR:HG22	2.35	0.62
1:H:609:ARG:HG3	1:H:609:ARG:NH2	2.12	0.62
1:K:392:PHE:CD2	1:7:713:THR:HG22	2.35	0.62
1:N:284:PHE:HB3	1:N:362:LEU:HD13	1.82	0.62
1:O:385:GLN:OE1	1:d:706:LYS:HD2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:601:LEU:HD23	1:m:481:PRO:HB2	1.82	0.62
1:Q:284:PHE:HB3	1:Q:362:LEU:HD13	1.82	0.62
1:R:284:PHE:HB3	1:R:362:LEU:HD13	1.82	0.62
1:S:343:PHE:HB3	1:S:400:SER:HA	1.80	0.62
1:S:713:THR:HG22	1:d:392:PHE:CD2	2.35	0.62
1:T:481:PRO:HB2	1:l:601:LEU:HD23	1.82	0.62
1:V:284:PHE:HB3	1:V:362:LEU:HD13	1.82	0.62
1:V:481:PRO:HB2	1:X:601:LEU:HD23	1.82	0.62
1:Y:234:TRP:CZ2	1:Y:298:ARG:CD	2.80	0.62
1:Y:240:ILE:HG21	1:Y:681:GLU:OE2	1.99	0.62
1:Y:713:THR:HG22	1:4:392:PHE:CD2	2.35	0.62
1:d:601:LEU:HD23	1:l:481:PRO:HB2	1.82	0.62
1:l:385:GLN:OE1	1:n:706:LYS:HD2	2.00	0.62
1:n:392:PHE:CD2	1:r:713:THR:HG22	2.35	0.62
1:o:580:SER:HA	1:o:592:THR:HG22	1.79	0.62
1:p:284:PHE:HB3	1:p:362:LEU:HD13	1.82	0.62
1:q:284:PHE:HB3	1:q:362:LEU:HD13	1.82	0.62
1:v:706:LYS:HD2	1:w:385:GLN:OE1	2.00	0.62
1:5:343:PHE:HB3	1:5:400:SER:HA	1.80	0.62
1:5:392:PHE:CD2	1:8:713:THR:HG22	2.35	0.62
1:G:234:TRP:CZ2	1:G:298:ARG:CD	2.80	0.62
1:H:343:PHE:HB3	1:H:400:SER:HA	1.80	0.62
1:H:706:LYS:HD2	1:I:385:GLN:OE1	2.00	0.62
1:I:284:PHE:HB3	1:I:362:LEU:HD13	1.82	0.62
1:N:713:THR:HG22	1:m:392:PHE:CD2	2.35	0.62
1:O:284:PHE:HB3	1:O:362:LEU:HD13	1.82	0.62
1:O:481:PRO:HB2	1:n:601:LEU:HD23	1.82	0.62
1:P:706:LYS:HD2	1:Q:385:GLN:OE1	2.00	0.62
1:U:284:PHE:HB3	1:U:362:LEU:HD13	1.82	0.62
1:U:713:THR:HG22	1:e:392:PHE:CD2	2.35	0.62
1:V:392:PHE:CD2	1:W:713:THR:HG22	2.35	0.62
1:a:284:PHE:HB3	1:a:362:LEU:HD13	1.82	0.62
1:c:392:PHE:CD2	1:s:713:THR:HG22	2.35	0.62
1:f:284:PHE:HB3	1:f:362:LEU:HD13	1.82	0.62
1:h:609:ARG:HG3	1:h:609:ARG:NH2	2.12	0.62
1:i:284:PHE:HB3	1:i:362:LEU:HD13	1.82	0.62
1:j:706:LYS:HD2	1:x:385:GLN:OE1	2.00	0.62
1:l:284:PHE:HB3	1:l:362:LEU:HD13	1.82	0.62
1:p:392:PHE:CD2	1:6:713:THR:HG22	2.35	0.62
1:s:284:PHE:HB3	1:s:362:LEU:HD13	1.82	0.62
1:u:284:PHE:HB3	1:u:362:LEU:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:284:PHE:HB3	1:x:362:LEU:HD13	1.82	0.62
1:z:481:PRO:HB2	1:2:601:LEU:HD23	1.82	0.62
1:1:284:PHE:HB3	1:1:362:LEU:HD13	1.82	0.62
1:3:284:PHE:HB3	1:3:362:LEU:HD13	1.82	0.62
1:7:240:ILE:HG21	1:7:681:GLU:OE2	1.99	0.62
1:F:481:PRO:HB2	1:Q:601:LEU:HD23	1.82	0.61
1:H:385:GLN:OE1	1:Z:706:LYS:HD2	2.00	0.61
1:J:601:LEU:HD23	1:L:481:PRO:HB2	1.82	0.61
1:M:240:ILE:HG21	1:M:681:GLU:OE2	1.99	0.61
1:S:284:PHE:HB3	1:S:362:LEU:HD13	1.82	0.61
1:T:392:PHE:CD2	1:i:713:THR:HG22	2.35	0.61
1:T:609:ARG:HG3	1:T:609:ARG:NH2	2.12	0.61
1:X:580:SER:HA	1:X:592:THR:HG22	1.79	0.61
1:X:713:THR:HG22	1:Y:392:PHE:CD2	2.35	0.61
1:Z:385:GLN:OE1	1:a:706:LYS:HD2	2.00	0.61
1:Z:392:PHE:CD2	1:a:713:THR:HG22	2.35	0.61
1:b:284:PHE:HB3	1:b:362:LEU:HD13	1.82	0.61
1:g:481:PRO:HB2	1:h:601:LEU:HD23	1.82	0.61
1:h:240:ILE:HG21	1:h:681:GLU:OE2	1.99	0.61
1:k:284:PHE:HB3	1:k:362:LEU:HD13	1.82	0.61
1:k:385:GLN:OE1	1:w:706:LYS:HD2	2.00	0.61
1:t:234:TRP:CZ2	1:t:298:ARG:CD	2.80	0.61
1:u:240:ILE:HG21	1:u:681:GLU:OE2	1.99	0.61
1:u:385:GLN:OE1	1:5:706:LYS:HD2	2.00	0.61
1:x:601:LEU:HD23	1:y:481:PRO:HB2	1.82	0.61
1:1:609:ARG:HG3	1:1:609:ARG:NH2	2.12	0.61
1:3:706:LYS:HD2	1:8:385:GLN:OE1	2.00	0.61
1:3:713:THR:HG22	1:8:392:PHE:CD2	2.35	0.61
1:5:385:GLN:OE1	1:8:706:LYS:HD2	2.00	0.61
1:D:284:PHE:HB3	1:D:362:LEU:HD13	1.82	0.61
1:D:385:GLN:OE1	1:E:706:LYS:HD2	2.00	0.61
1:K:284:PHE:HB3	1:K:362:LEU:HD13	1.82	0.61
1:M:392:PHE:CD2	1:c:713:THR:HG22	2.35	0.61
1:M:713:THR:HG22	1:N:392:PHE:CD2	2.35	0.61
1:Q:706:LYS:HD2	1:S:385:GLN:OE1	2.00	0.61
1:g:240:ILE:HG21	1:g:681:GLU:OE2	1.99	0.61
1:g:713:THR:HG22	1:1:392:PHE:CD2	2.35	0.61
1:m:706:LYS:HD2	1:s:385:GLN:OE1	2.00	0.61
1:o:713:THR:HG22	1:7:392:PHE:CD2	2.35	0.61
1:p:385:GLN:OE1	1:6:706:LYS:HD2	2.00	0.61
1:q:481:PRO:HB2	1:s:601:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:284:PHE:HB3	1:r:362:LEU:HD13	1.82	0.61
1:r:385:GLN:OE1	1:x:706:LYS:HD2	2.00	0.61
1:y:609:ARG:HG3	1:y:609:ARG:NH2	2.12	0.61
1:4:284:PHE:HB3	1:4:362:LEU:HD13	1.82	0.61
1:6:601:LEU:HD23	1:7:481:PRO:HB2	1.82	0.61
1:A:392:PHE:CD2	1:B:713:THR:HG22	2.35	0.61
1:B:392:PHE:CD2	1:C:713:THR:HG22	2.35	0.61
1:B:609:ARG:HG3	1:B:609:ARG:NH2	2.12	0.61
1:C:240:ILE:HG21	1:C:681:GLU:OE2	1.99	0.61
1:C:481:PRO:HB2	1:M:601:LEU:HD23	1.82	0.61
1:F:284:PHE:HB3	1:F:362:LEU:HD13	1.82	0.61
1:F:713:THR:HG22	1:G:392:PHE:CD2	2.35	0.61
1:I:240:ILE:HG21	1:I:681:GLU:OE2	1.99	0.61
1:M:609:ARG:HG3	1:M:609:ARG:NH2	2.12	0.61
1:Q:713:THR:HG22	1:S:392:PHE:CD2	2.35	0.61
1:R:481:PRO:HB2	1:U:601:LEU:HD23	1.82	0.61
1:S:706:LYS:HD2	1:d:385:GLN:OE1	2.00	0.61
1:T:706:LYS:HD2	1:U:385:GLN:OE1	2.00	0.61
1:V:385:GLN:OE1	1:W:706:LYS:HD2	2.00	0.61
1:W:601:LEU:HD23	1:Y:481:PRO:HB2	1.82	0.61
1:a:609:ARG:HG3	1:a:609:ARG:NH2	2.12	0.61
1:e:713:THR:HG22	1:h:392:PHE:CD2	2.35	0.61
1:h:713:THR:HG22	1:i:392:PHE:CD2	2.35	0.61
1:l:392:PHE:CD2	1:n:713:THR:HG22	2.35	0.61
1:n:385:GLN:OE1	1:r:706:LYS:HD2	2.00	0.61
1:t:385:GLN:OE1	1:y:706:LYS:HD2	2.00	0.61
1:t:392:PHE:CD2	1:y:713:THR:HG22	2.35	0.61
1:v:385:GLN:OE1	1:1:706:LYS:HD2	2.00	0.61
1:v:392:PHE:CD2	1:1:713:THR:HG22	2.35	0.61
1:y:284:PHE:HB3	1:y:362:LEU:HD13	1.82	0.61
1:3:609:ARG:HG3	1:3:609:ARG:NH2	2.12	0.61
1:A:385:GLN:OE1	1:B:706:LYS:HD2	2.00	0.61
1:F:706:LYS:HD2	1:G:385:GLN:OE1	2.00	0.61
1:G:706:LYS:HD2	1:W:385:GLN:OE1	2.00	0.61
1:O:240:ILE:HG21	1:O:681:GLU:OE2	1.99	0.61
1:O:392:PHE:CD2	1:d:713:THR:HG22	2.35	0.61
1:T:234:TRP:CZ2	1:T:298:ARG:CD	2.80	0.61
1:U:706:LYS:HD2	1:e:385:GLN:OE1	2.00	0.61
1:b:713:THR:HG22	1:o:392:PHE:CD2	2.35	0.61
1:c:385:GLN:OE1	1:s:706:LYS:HD2	2.00	0.61
1:m:234:TRP:CZ2	1:m:298:ARG:CD	2.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:319:GLN:N	1:n:675:THR:O	2.33	0.61
1:r:392:PHE:CD2	1:x:713:THR:HG22	2.35	0.61
1:H:713:THR:HG22	1:I:392:PHE:CD2	2.35	0.61
1:I:232:SER:CB	1:I:295:ASP:OD1	2.49	0.61
1:I:713:THR:HG22	1:J:392:PHE:CD2	2.35	0.61
1:J:706:LYS:HD2	1:a:385:GLN:OE1	2.00	0.61
1:K:601:LEU:HD23	1:a:481:PRO:HB2	1.82	0.61
1:M:706:LYS:HD2	1:N:385:GLN:OE1	2.00	0.61
1:X:392:PHE:CD2	1:f:713:THR:HG22	2.35	0.61
1:Y:232:SER:CB	1:Y:295:ASP:OD1	2.49	0.61
1:d:319:GLN:N	1:d:675:THR:O	2.33	0.61
1:g:706:LYS:HD2	1:1:385:GLN:OE1	2.00	0.61
1:j:232:SER:CB	1:j:295:ASP:OD1	2.49	0.61
1:l:232:SER:CB	1:l:295:ASP:OD1	2.49	0.61
1:l:240:ILE:HG21	1:l:681:GLU:OE2	1.99	0.61
1:m:284:PHE:HB3	1:m:362:LEU:HD13	1.82	0.61
1:m:319:GLN:N	1:m:675:THR:O	2.33	0.61
1:n:232:SER:CB	1:n:295:ASP:OD1	2.49	0.61
1:t:706:LYS:HD2	1:6:385:GLN:OE1	2.00	0.61
1:u:232:SER:CB	1:u:295:ASP:OD1	2.49	0.61
1:u:392:PHE:CD2	1:5:713:THR:HG22	2.35	0.61
1:u:713:THR:HG22	1:2:392:PHE:CD2	2.35	0.61
1:w:284:PHE:HB3	1:w:362:LEU:HD13	1.82	0.61
1:y:319:GLN:N	1:y:675:THR:O	2.33	0.61
1:3:481:PRO:HB2	1:4:601:LEU:HD23	1.82	0.61
1:7:232:SER:CB	1:7:295:ASP:OD1	2.49	0.61
1:B:385:GLN:OE1	1:C:706:LYS:HD2	2.00	0.61
1:C:601:LEU:HD23	1:b:481:PRO:HB2	1.82	0.61
1:D:481:PRO:HB2	1:P:601:LEU:HD23	1.82	0.61
1:E:284:PHE:HB3	1:E:362:LEU:HD13	1.82	0.61
1:F:319:GLN:N	1:F:675:THR:O	2.33	0.61
1:G:713:THR:HG22	1:W:392:PHE:CD2	2.35	0.61
1:H:284:PHE:HB3	1:H:362:LEU:HD13	1.82	0.61
1:L:232:SER:CB	1:L:295:ASP:OD1	2.49	0.61
1:O:232:SER:CB	1:O:295:ASP:OD1	2.49	0.61
1:P:232:SER:CB	1:P:295:ASP:OD1	2.49	0.61
1:T:284:PHE:HB3	1:T:362:LEU:HD13	1.82	0.61
1:b:232:SER:CB	1:b:295:ASP:OD1	2.49	0.61
1:c:284:PHE:HB3	1:c:362:LEU:HD13	1.82	0.61
1:d:232:SER:CB	1:d:295:ASP:OD1	2.49	0.61
1:e:284:PHE:HB3	1:e:362:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:232:SER:CB	1:f:295:ASP:OD1	2.49	0.61
1:f:481:PRO:HB2	1:g:601:LEU:HD23	1.82	0.61
1:m:232:SER:CB	1:m:295:ASP:OD1	2.49	0.61
1:z:232:SER:CB	1:z:295:ASP:OD1	2.49	0.61
1:2:706:LYS:HD2	1:3:385:GLN:OE1	2.00	0.61
1:D:232:SER:CB	1:D:295:ASP:OD1	2.49	0.61
1:F:392:PHE:CD2	1:R:713:THR:HG22	2.35	0.61
1:K:385:GLN:OE1	1:7:706:LYS:HD2	2.00	0.61
1:N:601:LEU:HD23	1:P:481:PRO:HB2	1.82	0.61
1:P:284:PHE:HB3	1:P:362:LEU:HD13	1.82	0.61
1:Q:232:SER:CB	1:Q:295:ASP:OD1	2.49	0.61
1:T:232:SER:CB	1:T:295:ASP:OD1	2.49	0.61
1:h:232:SER:CB	1:h:295:ASP:OD1	2.49	0.61
1:h:706:LYS:HD2	1:i:385:GLN:OE1	2.00	0.61
1:k:232:SER:CB	1:k:295:ASP:OD1	2.49	0.61
1:t:713:THR:HG22	1:6:392:PHE:CD2	2.35	0.61
1:x:232:SER:CB	1:x:295:ASP:OD1	2.49	0.61
1:A:713:THR:HG22	1:E:392:PHE:CD2	2.35	0.61
1:K:481:PRO:HB2	1:8:601:LEU:HD23	1.82	0.61
1:M:232:SER:CB	1:M:295:ASP:OD1	2.49	0.61
1:P:426:HIS:CD2	1:P:735:LEU:HD23	2.36	0.61
1:S:232:SER:CB	1:S:295:ASP:OD1	2.49	0.61
1:X:284:PHE:HB3	1:X:362:LEU:HD13	1.82	0.61
1:a:232:SER:CB	1:a:295:ASP:OD1	2.49	0.61
1:b:706:LYS:HD2	1:o:385:GLN:OE1	2.00	0.61
1:c:232:SER:CB	1:c:295:ASP:OD1	2.49	0.61
1:e:706:LYS:HD2	1:h:385:GLN:OE1	2.00	0.61
1:f:601:LEU:HD23	1:h:481:PRO:HB2	1.82	0.61
1:i:232:SER:CB	1:i:295:ASP:OD1	2.49	0.61
1:i:601:LEU:HD23	1:j:481:PRO:HB2	1.82	0.61
1:j:284:PHE:HB3	1:j:362:LEU:HD13	1.82	0.61
1:j:392:PHE:CD2	1:l:713:THR:HG22	2.35	0.61
1:j:426:HIS:CD2	1:j:735:LEU:HD23	2.36	0.61
1:j:601:LEU:HD23	1:k:481:PRO:HB2	1.82	0.61
1:p:706:LYS:HD2	1:q:385:GLN:OE1	2.00	0.61
1:q:713:THR:HG22	1:y:392:PHE:CD2	2.35	0.61
1:r:232:SER:CB	1:r:295:ASP:OD1	2.49	0.61
1:v:713:THR:HG22	1:w:392:PHE:CD2	2.35	0.61
1:3:232:SER:CB	1:3:295:ASP:OD1	2.49	0.61
1:5:284:PHE:HB3	1:5:362:LEU:HD13	1.82	0.61
1:D:392:PHE:CD2	1:E:713:THR:HG22	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:232:SER:CB	1:E:295:ASP:OD1	2.49	0.61
1:J:246:THR:OG1	1:J:677:GLN:NE2	2.27	0.61
1:J:319:GLN:N	1:J:675:THR:O	2.33	0.61
1:M:284:PHE:HB3	1:M:362:LEU:HD13	1.82	0.61
1:M:385:GLN:OE1	1:c:706:LYS:HD2	2.00	0.61
1:M:481:PRO:HB2	1:b:601:LEU:HD23	1.82	0.61
1:N:232:SER:CB	1:N:295:ASP:OD1	2.49	0.61
1:N:426:HIS:CD2	1:N:735:LEU:HD23	2.36	0.61
1:O:713:THR:HG22	1:P:392:PHE:CD2	2.35	0.61
1:R:385:GLN:OE1	1:V:706:LYS:HD2	2.00	0.61
1:Y:706:LYS:HD2	1:4:385:GLN:OE1	2.00	0.61
1:Z:232:SER:CB	1:Z:295:ASP:OD1	2.49	0.61
1:Z:601:LEU:HD23	1:4:481:PRO:HB2	1.82	0.61
1:d:426:HIS:CD2	1:d:735:LEU:HD23	2.36	0.61
1:e:232:SER:CB	1:e:295:ASP:OD1	2.49	0.61
1:i:426:HIS:CD2	1:i:735:LEU:HD23	2.36	0.61
1:k:392:PHE:CD2	1:w:713:THR:HG22	2.35	0.61
1:n:426:HIS:CD2	1:n:735:LEU:HD23	2.36	0.61
1:o:284:PHE:HB3	1:o:362:LEU:HD13	1.82	0.61
1:u:706:LYS:HD2	1:2:385:GLN:OE1	2.00	0.61
1:z:385:GLN:OE1	1:4:706:LYS:HD2	2.00	0.61
1:8:232:SER:CB	1:8:295:ASP:OD1	2.49	0.61
1:8:319:GLN:N	1:8:675:THR:O	2.33	0.61
1:C:246:THR:OG1	1:C:677:GLN:NE2	2.27	0.61
1:F:232:SER:CB	1:F:295:ASP:OD1	2.49	0.61
1:I:706:LYS:HD2	1:J:385:GLN:OE1	2.00	0.61
1:J:713:THR:HG22	1:a:392:PHE:CD2	2.35	0.61
1:L:706:LYS:HD2	1:b:385:GLN:OE1	2.00	0.61
1:V:601:LEU:HD23	1:e:481:PRO:HB2	1.82	0.61
1:X:385:GLN:OE1	1:f:706:LYS:HD2	2.00	0.61
1:c:481:PRO:HB2	1:p:601:LEU:HD23	1.82	0.61
1:g:392:PHE:CD2	1:k:713:THR:HG22	2.35	0.61
1:w:232:SER:CB	1:w:295:ASP:OD1	2.49	0.61
1:2:232:SER:CB	1:2:295:ASP:OD1	2.49	0.61
1:2:713:THR:HG22	1:3:392:PHE:CD2	2.35	0.61
1:C:392:PHE:CD2	1:D:713:THR:HG22	2.35	0.60
1:J:232:SER:CB	1:J:295:ASP:OD1	2.49	0.60
1:J:284:PHE:HB3	1:J:362:LEU:HD13	1.82	0.60
1:K:706:LYS:HD2	1:L:385:GLN:OE1	2.00	0.60
1:S:601:LEU:HD23	1:U:481:PRO:HB2	1.82	0.60
1:Z:281:TYR:HB3	1:Z:647:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:319:GLN:N	1:Z:675:THR:O	2.33	0.60
1:f:281:TYR:HB3	1:f:647:LEU:HD13	1.83	0.60
1:f:385:GLN:OE1	1:z:706:LYS:HD2	2.00	0.60
1:h:284:PHE:HB3	1:h:362:LEU:HD13	1.82	0.60
1:y:232:SER:CB	1:y:295:ASP:OD1	2.49	0.60
1:1:426:HIS:CD2	1:1:735:LEU:HD23	2.36	0.60
1:2:246:THR:OG1	1:2:677:GLN:NE2	2.27	0.60
1:6:232:SER:CB	1:6:295:ASP:OD1	2.49	0.60
1:8:281:TYR:HB3	1:8:647:LEU:HD13	1.83	0.60
1:B:426:HIS:CD2	1:B:735:LEU:HD23	2.36	0.60
1:R:392:PHE:CD2	1:V:713:THR:HG22	2.35	0.60
1:R:601:LEU:HD23	1:S:481:PRO:HB2	1.82	0.60
1:T:385:GLN:OE1	1:i:706:LYS:HD2	2.00	0.60
1:W:232:SER:CB	1:W:295:ASP:OD1	2.49	0.60
1:X:426:HIS:CD2	1:X:735:LEU:HD23	2.36	0.60
1:Y:284:PHE:HB3	1:Y:362:LEU:HD13	1.82	0.60
1:b:281:TYR:HB3	1:b:647:LEU:HD13	1.83	0.60
1:d:284:PHE:HB3	1:d:362:LEU:HD13	1.82	0.60
1:i:481:PRO:HB2	1:k:601:LEU:HD23	1.82	0.60
1:j:713:THR:HG22	1:x:392:PHE:CD2	2.35	0.60
1:p:713:THR:HG22	1:q:392:PHE:CD2	2.35	0.60
1:q:601:LEU:HD23	1:r:481:PRO:HB2	1.82	0.60
1:r:601:LEU:HD23	1:s:481:PRO:HB2	1.82	0.60
1:z:281:TYR:HB3	1:z:647:LEU:HD13	1.83	0.60
1:2:284:PHE:HB3	1:2:362:LEU:HD13	1.82	0.60
1:5:481:PRO:HB2	1:7:601:LEU:HD23	1.82	0.60
1:7:284:PHE:HB3	1:7:362:LEU:HD13	1.82	0.60
1:B:232:SER:CB	1:B:295:ASP:OD1	2.49	0.60
1:C:284:PHE:HB3	1:C:362:LEU:HD13	1.82	0.60
1:D:601:LEU:HD23	1:N:481:PRO:HB2	1.82	0.60
1:E:426:HIS:CD2	1:E:735:LEU:HD23	2.36	0.60
1:E:601:LEU:HD23	1:Q:481:PRO:HB2	1.82	0.60
1:G:426:HIS:CD2	1:G:735:LEU:HD23	2.36	0.60
1:H:481:PRO:HB2	1:Y:601:LEU:HD23	1.82	0.60
1:H:601:LEU:HD23	1:W:481:PRO:HB2	1.82	0.60
1:K:232:SER:CB	1:K:295:ASP:OD1	2.49	0.60
1:K:713:THR:HG22	1:L:392:PHE:CD2	2.35	0.60
1:L:281:TYR:HB3	1:L:647:LEU:HD13	1.83	0.60
1:L:713:THR:HG22	1:b:392:PHE:CD2	2.35	0.60
1:N:706:LYS:HD2	1:m:385:GLN:OE1	2.00	0.60
1:O:426:HIS:CD2	1:O:735:LEU:HD23	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:713:THR:HG22	1:Q:392:PHE:CD2	2.35	0.60
1:R:232:SER:CB	1:R:295:ASP:OD1	2.49	0.60
1:X:232:SER:CB	1:X:295:ASP:OD1	2.49	0.60
1:a:281:TYR:HB3	1:a:647:LEU:HD13	1.83	0.60
1:f:392:PHE:CD2	1:z:713:THR:HG22	2.35	0.60
1:n:284:PHE:HB3	1:n:362:LEU:HD13	1.82	0.60
1:o:426:HIS:CD2	1:o:735:LEU:HD23	2.36	0.60
1:p:426:HIS:CD2	1:p:735:LEU:HD23	2.36	0.60
1:q:232:SER:CB	1:q:295:ASP:OD1	2.49	0.60
1:w:601:LEU:HD23	1:x:481:PRO:HB2	1.82	0.60
1:1:232:SER:CB	1:1:295:ASP:OD1	2.49	0.60
1:6:426:HIS:CD2	1:6:735:LEU:HD23	2.36	0.60
1:7:426:HIS:CD2	1:7:735:LEU:HD23	2.36	0.60
1:S:426:HIS:CD2	1:S:735:LEU:HD23	2.36	0.60
1:V:426:HIS:CD2	1:V:735:LEU:HD23	2.36	0.60
1:W:426:HIS:CD2	1:W:735:LEU:HD23	2.36	0.60
1:Y:426:HIS:CD2	1:Y:735:LEU:HD23	2.36	0.60
1:f:426:HIS:CD2	1:f:735:LEU:HD23	2.36	0.60
1:h:281:TYR:HB3	1:h:647:LEU:HD13	1.83	0.60
1:i:281:TYR:HB3	1:i:647:LEU:HD13	1.83	0.60
1:k:234:TRP:CZ2	1:k:298:ARG:CD	2.80	0.60
1:l:426:HIS:CD2	1:l:735:LEU:HD23	2.36	0.60
1:p:232:SER:CB	1:p:295:ASP:OD1	2.49	0.60
1:t:426:HIS:CD2	1:t:735:LEU:HD23	2.36	0.60
1:w:426:HIS:CD2	1:w:735:LEU:HD23	2.36	0.60
1:x:426:HIS:CD2	1:x:735:LEU:HD23	2.36	0.60
1:z:392:PHE:CD2	1:4:713:THR:HG22	2.35	0.60
1:z:426:HIS:CD2	1:z:735:LEU:HD23	2.36	0.60
1:3:281:TYR:HB3	1:3:647:LEU:HD13	1.83	0.60
1:8:426:HIS:CD2	1:8:735:LEU:HD23	2.36	0.60
1:C:232:SER:CB	1:C:295:ASP:OD1	2.49	0.60
1:H:426:HIS:CD2	1:H:735:LEU:HD23	2.36	0.60
1:L:426:HIS:CD2	1:L:735:LEU:HD23	2.36	0.60
1:M:281:TYR:HB3	1:M:647:LEU:HD13	1.83	0.60
1:N:281:TYR:HB3	1:N:647:LEU:HD13	1.83	0.60
1:Q:281:TYR:HB3	1:Q:647:LEU:HD13	1.83	0.60
1:Q:426:HIS:CD2	1:Q:735:LEU:HD23	2.36	0.60
1:V:232:SER:CB	1:V:295:ASP:OD1	2.49	0.60
1:b:426:HIS:CD2	1:b:735:LEU:HD23	2.36	0.60
1:g:284:PHE:HB3	1:g:362:LEU:HD13	1.82	0.60
1:g:385:GLN:OE1	1:k:706:LYS:HD2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:426:HIS:CD2	1:h:735:LEU:HD23	2.36	0.60
1:m:281:TYR:HB3	1:m:647:LEU:HD13	1.83	0.60
1:m:713:THR:HG22	1:s:392:PHE:CD2	2.35	0.60
1:o:232:SER:CB	1:o:295:ASP:OD1	2.49	0.60
1:q:706:LYS:HD2	1:y:385:GLN:OE1	2.00	0.60
1:r:426:HIS:CD2	1:r:735:LEU:HD23	2.36	0.60
1:v:232:SER:CB	1:v:295:ASP:OD1	2.49	0.60
1:z:284:PHE:HB3	1:z:362:LEU:HD13	1.82	0.60
1:3:426:HIS:CD2	1:3:735:LEU:HD23	2.36	0.60
1:4:232:SER:CB	1:4:295:ASP:OD1	2.49	0.60
1:5:426:HIS:CD2	1:5:735:LEU:HD23	2.36	0.60
1:5:601:LEU:HD23	1:6:481:PRO:HB2	1.82	0.60
1:7:281:TYR:HB3	1:7:647:LEU:HD13	1.83	0.60
1:A:232:SER:CB	1:A:295:ASP:OD1	2.49	0.60
1:C:426:HIS:CD2	1:C:735:LEU:HD23	2.36	0.60
1:F:281:TYR:HB3	1:F:647:LEU:HD13	1.83	0.60
1:F:385:GLN:OE1	1:R:706:LYS:HD2	2.00	0.60
1:J:281:TYR:HB3	1:J:647:LEU:HD13	1.83	0.60
1:L:284:PHE:HB3	1:L:362:LEU:HD13	1.82	0.60
1:T:281:TYR:HB3	1:T:647:LEU:HD13	1.83	0.60
1:T:713:THR:HG22	1:U:392:PHE:CD2	2.35	0.60
1:U:426:HIS:CD2	1:U:735:LEU:HD23	2.36	0.60
1:Y:281:TYR:HB3	1:Y:647:LEU:HD13	1.83	0.60
1:Z:426:HIS:CD2	1:Z:735:LEU:HD23	2.36	0.60
1:a:426:HIS:CD2	1:a:735:LEU:HD23	2.36	0.60
1:c:426:HIS:CD2	1:c:735:LEU:HD23	2.36	0.60
1:e:426:HIS:CD2	1:e:735:LEU:HD23	2.36	0.60
1:g:232:SER:CB	1:g:295:ASP:OD1	2.49	0.60
1:g:426:HIS:CD2	1:g:735:LEU:HD23	2.36	0.60
1:o:706:LYS:HD2	1:7:385:GLN:OE1	2.00	0.60
1:t:232:SER:CB	1:t:295:ASP:OD1	2.49	0.60
1:x:281:TYR:HB3	1:x:647:LEU:HD13	1.83	0.60
1:2:281:TYR:HB3	1:2:647:LEU:HD13	1.83	0.60
1:5:232:SER:CB	1:5:295:ASP:OD1	2.49	0.60
1:6:281:TYR:HB3	1:6:647:LEU:HD13	1.83	0.60
1:C:385:GLN:OE1	1:D:706:LYS:HD2	2.00	0.60
1:E:281:TYR:HB3	1:E:647:LEU:HD13	1.83	0.60
1:F:426:HIS:CD2	1:F:735:LEU:HD23	2.36	0.60
1:G:232:SER:CB	1:G:295:ASP:OD1	2.49	0.60
1:K:416:GLU:OE1	1:K:640:LYS:N	2.35	0.60
1:K:426:HIS:CD2	1:K:735:LEU:HD23	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:426:HIS:CD2	1:M:735:LEU:HD23	2.36	0.60
1:X:281:TYR:HB3	1:X:647:LEU:HD13	1.83	0.60
1:Y:416:GLU:OE1	1:Y:640:LYS:N	2.35	0.60
1:a:601:LEU:HD23	1:8:481:PRO:HB2	1.82	0.60
1:o:281:TYR:HB3	1:o:647:LEU:HD13	1.83	0.60
1:y:281:TYR:HB3	1:y:647:LEU:HD13	1.83	0.60
1:4:416:GLU:OE1	1:4:640:LYS:N	2.35	0.60
1:7:416:GLU:OE1	1:7:640:LYS:N	2.35	0.60
1:A:284:PHE:HB3	1:A:362:LEU:HD13	1.82	0.60
1:A:428:GLN:NE2	1:G:351:PRO:HB3	2.17	0.60
1:E:351:PRO:HB3	1:F:428:GLN:NE2	2.17	0.60
1:H:232:SER:CB	1:H:295:ASP:OD1	2.49	0.60
1:I:426:HIS:CD2	1:I:735:LEU:HD23	2.36	0.60
1:J:426:HIS:CD2	1:J:735:LEU:HD23	2.36	0.60
1:U:281:TYR:HB3	1:U:647:LEU:HD13	1.83	0.60
1:V:281:TYR:HB3	1:V:647:LEU:HD13	1.83	0.60
1:W:281:TYR:HB3	1:W:647:LEU:HD13	1.83	0.60
1:X:706:LYS:HD2	1:Y:385:GLN:OE1	2.00	0.60
1:g:351:PRO:HB3	1:h:428:GLN:NE2	2.17	0.60
1:s:281:TYR:HB3	1:s:647:LEU:HD13	1.83	0.60
1:s:426:HIS:CD2	1:s:735:LEU:HD23	2.36	0.60
1:t:351:PRO:HB3	1:v:428:GLN:NE2	2.17	0.60
1:w:281:TYR:HB3	1:w:647:LEU:HD13	1.83	0.60
1:w:351:PRO:HB3	1:y:428:GLN:NE2	2.17	0.60
1:y:426:HIS:CD2	1:y:735:LEU:HD23	2.36	0.60
1:4:426:HIS:CD2	1:4:735:LEU:HD23	2.36	0.60
1:B:428:GLN:NE2	1:J:351:PRO:HB3	2.17	0.60
1:C:351:PRO:HB3	1:M:428:GLN:NE2	2.17	0.60
1:D:426:HIS:CD2	1:D:735:LEU:HD23	2.36	0.60
1:U:232:SER:CB	1:U:295:ASP:OD1	2.49	0.60
1:X:351:PRO:HB3	1:e:428:GLN:NE2	2.17	0.60
1:Z:481:PRO:HB2	1:3:601:LEU:HD23	1.82	0.60
1:c:428:GLN:NE2	1:o:351:PRO:HB3	2.17	0.60
1:u:426:HIS:CD2	1:u:735:LEU:HD23	2.36	0.60
1:x:416:GLU:OE1	1:x:640:LYS:N	2.35	0.60
1:1:428:GLN:NE2	1:2:351:PRO:HB3	2.17	0.60
1:2:426:HIS:CD2	1:2:735:LEU:HD23	2.36	0.60
1:6:284:PHE:HB3	1:6:362:LEU:HD13	1.82	0.60
1:G:428:GLN:NE2	1:I:351:PRO:HB3	2.17	0.60
1:H:351:PRO:HB3	1:Y:428:GLN:NE2	2.17	0.60
1:Q:246:THR:OG1	1:Q:677:GLN:NE2	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:416:GLU:OE1	1:Q:640:LYS:N	2.35	0.60
1:R:428:GLN:NE2	1:S:351:PRO:HB3	2.17	0.60
1:c:281:TYR:HB3	1:c:647:LEU:HD13	1.83	0.60
1:d:281:TYR:HB3	1:d:647:LEU:HD13	1.83	0.60
1:k:426:HIS:CD2	1:k:735:LEU:HD23	2.36	0.60
1:p:281:TYR:HB3	1:p:647:LEU:HD13	1.83	0.60
1:s:232:SER:CB	1:s:295:ASP:OD1	2.49	0.60
1:t:284:PHE:HB3	1:t:362:LEU:HD13	1.82	0.60
1:t:428:GLN:NE2	1:u:351:PRO:HB3	2.17	0.60
1:v:284:PHE:HB3	1:v:362:LEU:HD13	1.82	0.60
1:w:416:GLU:OE1	1:w:640:LYS:N	2.35	0.60
1:B:281:TYR:HB3	1:B:647:LEU:HD13	1.83	0.59
1:D:428:GLN:NE2	1:N:351:PRO:HB3	2.17	0.59
1:R:426:HIS:CD2	1:R:735:LEU:HD23	2.36	0.59
1:T:426:HIS:CD2	1:T:735:LEU:HD23	2.36	0.59
1:W:284:PHE:HB3	1:W:362:LEU:HD13	1.82	0.59
1:Z:284:PHE:HB3	1:Z:362:LEU:HD13	1.82	0.59
1:e:281:TYR:HB3	1:e:647:LEU:HD13	1.83	0.59
1:f:351:PRO:HB3	1:g:428:GLN:NE2	2.17	0.59
1:g:416:GLU:OE1	1:g:640:LYS:N	2.35	0.59
1:i:351:PRO:HB3	1:k:428:GLN:NE2	2.17	0.59
1:j:385:GLN:OE1	1:l:706:LYS:HD2	2.00	0.59
1:j:416:GLU:OE1	1:j:640:LYS:N	2.35	0.59
1:n:281:TYR:HB3	1:n:647:LEU:HD13	1.83	0.59
1:q:426:HIS:CD2	1:q:735:LEU:HD23	2.36	0.59
1:q:428:GLN:NE2	1:r:351:PRO:HB3	2.17	0.59
1:v:426:HIS:CD2	1:v:735:LEU:HD23	2.36	0.59
1:x:246:THR:OG1	1:x:677:GLN:NE2	2.27	0.59
1:5:351:PRO:HB3	1:7:428:GLN:NE2	2.17	0.59
1:A:426:HIS:CD2	1:A:735:LEU:HD23	2.36	0.59
1:C:283:ASP:HB3	1:C:354:LEU:HD21	1.84	0.59
1:C:416:GLU:OE1	1:C:640:LYS:N	2.35	0.59
1:C:428:GLN:NE2	1:b:351:PRO:HB3	2.17	0.59
1:D:351:PRO:HB3	1:P:428:GLN:NE2	2.17	0.59
1:E:416:GLU:OE1	1:E:640:LYS:N	2.35	0.59
1:G:284:PHE:HB3	1:G:362:LEU:HD13	1.82	0.59
1:O:246:THR:OG1	1:O:677:GLN:NE2	2.27	0.59
1:O:351:PRO:HB3	1:n:428:GLN:NE2	2.17	0.59
1:R:416:GLU:OE1	1:R:640:LYS:N	2.35	0.59
1:X:416:GLU:OE1	1:X:640:LYS:N	2.35	0.59
1:d:428:GLN:NE2	1:l:351:PRO:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:283:ASP:HB3	1:g:354:LEU:HD21	1.84	0.59
1:j:428:GLN:NE2	1:k:351:PRO:HB3	2.17	0.59
1:m:426:HIS:CD2	1:m:735:LEU:HD23	2.36	0.59
1:q:416:GLU:OE1	1:q:640:LYS:N	2.35	0.59
1:z:319:GLN:N	1:z:675:THR:O	2.33	0.59
1:1:281:TYR:HB3	1:1:647:LEU:HD13	1.83	0.59
1:5:428:GLN:NE2	1:6:351:PRO:HB3	2.17	0.59
1:B:351:PRO:HB3	1:L:428:GLN:NE2	2.17	0.59
1:F:283:ASP:HB3	1:F:354:LEU:HD21	1.84	0.59
1:F:351:PRO:HB3	1:Q:428:GLN:NE2	2.17	0.59
1:H:283:ASP:HB3	1:H:354:LEU:HD21	1.85	0.59
1:H:428:GLN:NE2	1:W:351:PRO:HB3	2.17	0.59
1:L:319:GLN:N	1:L:675:THR:O	2.33	0.59
1:O:706:LYS:HD2	1:P:385:GLN:OE1	2.00	0.59
1:R:281:TYR:HB3	1:R:647:LEU:HD13	1.83	0.59
1:V:416:GLU:OE1	1:V:640:LYS:N	2.35	0.59
1:X:353:VAL:N	1:X:645:GLN:HE22	2.00	0.59
1:l:319:GLN:N	1:l:675:THR:O	2.33	0.59
1:m:428:GLN:NE2	1:n:351:PRO:HB3	2.17	0.59
1:o:416:GLU:OE1	1:o:640:LYS:N	2.35	0.59
1:p:416:GLU:OE1	1:p:640:LYS:N	2.35	0.59
1:w:319:GLN:N	1:w:675:THR:O	2.33	0.59
1:x:428:GLN:NE2	1:y:351:PRO:HB3	2.17	0.59
1:y:283:ASP:HB3	1:y:354:LEU:HD21	1.84	0.59
1:5:283:ASP:HB3	1:5:354:LEU:HD21	1.85	0.59
1:5:319:GLN:N	1:5:675:THR:O	2.33	0.59
1:8:284:PHE:HB3	1:8:362:LEU:HD13	1.82	0.59
1:D:283:ASP:HB3	1:D:354:LEU:HD21	1.85	0.59
1:G:353:VAL:N	1:G:645:GLN:NE2	2.50	0.59
1:H:434:MET:SD	1:H:473:GLN:NE2	2.76	0.59
1:O:319:GLN:N	1:O:675:THR:O	2.33	0.59
1:O:352:TYR:HA	1:O:645:GLN:NE2	2.18	0.59
1:T:428:GLN:NE2	1:d:351:PRO:HB3	2.17	0.59
1:c:351:PRO:HB3	1:p:428:GLN:NE2	2.17	0.59
1:k:283:ASP:HB3	1:k:354:LEU:HD21	1.85	0.59
1:l:352:TYR:HA	1:l:645:GLN:NE2	2.18	0.59
1:m:416:GLU:OE1	1:m:640:LYS:N	2.35	0.59
1:o:353:VAL:N	1:o:645:GLN:HE22	2.00	0.59
1:q:281:TYR:HB3	1:q:647:LEU:HD13	1.83	0.59
1:t:353:VAL:N	1:t:645:GLN:NE2	2.50	0.59
1:z:428:GLN:NE2	1:1:351:PRO:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:434:MET:SD	1:5:473:GLN:NE2	2.76	0.59
1:E:319:GLN:N	1:E:675:THR:O	2.33	0.59
1:H:319:GLN:N	1:H:675:THR:O	2.33	0.59
1:H:353:VAL:N	1:H:645:GLN:NE2	2.50	0.59
1:I:281:TYR:HB3	1:I:647:LEU:HD13	1.83	0.59
1:L:434:MET:SD	1:L:473:GLN:NE2	2.76	0.59
1:N:283:ASP:HB3	1:N:354:LEU:HD21	1.85	0.59
1:R:351:PRO:HB3	1:U:428:GLN:NE2	2.17	0.59
1:S:283:ASP:HB3	1:S:354:LEU:HD21	1.84	0.59
1:V:428:GLN:NE2	1:e:351:PRO:HB3	2.17	0.59
1:V:434:MET:SD	1:V:473:GLN:NE2	2.76	0.59
1:W:434:MET:SD	1:W:473:GLN:NE2	2.76	0.59
1:a:434:MET:SD	1:a:473:GLN:NE2	2.76	0.59
1:c:352:TYR:HA	1:c:645:GLN:NE2	2.18	0.59
1:e:352:TYR:HA	1:e:645:GLN:NE2	2.18	0.59
1:g:281:TYR:HB3	1:g:647:LEU:HD13	1.83	0.59
1:i:283:ASP:HB3	1:i:354:LEU:HD21	1.85	0.59
1:m:352:TYR:HA	1:m:645:GLN:NE2	2.18	0.59
1:n:416:GLU:OE1	1:n:640:LYS:N	2.35	0.59
1:p:434:MET:SD	1:p:473:GLN:NE2	2.76	0.59
1:r:283:ASP:HB3	1:r:354:LEU:HD21	1.84	0.59
1:u:428:GLN:NE2	1:v:351:PRO:HB3	2.17	0.59
1:x:319:GLN:N	1:x:675:THR:O	2.33	0.59
1:z:434:MET:SD	1:z:473:GLN:NE2	2.76	0.59
1:3:434:MET:SD	1:3:473:GLN:NE2	2.76	0.59
1:6:434:MET:SD	1:6:473:GLN:NE2	2.76	0.59
1:7:283:ASP:HB3	1:7:354:LEU:HD21	1.85	0.59
1:A:351:PRO:HB3	1:I:428:GLN:NE2	2.17	0.59
1:C:281:TYR:HB3	1:C:647:LEU:HD13	1.83	0.59
1:G:416:GLU:OE1	1:G:640:LYS:N	2.35	0.59
1:S:416:GLU:OE1	1:S:640:LYS:N	2.35	0.59
1:T:352:TYR:HA	1:T:645:GLN:NE2	2.18	0.59
1:Y:283:ASP:HB3	1:Y:354:LEU:HD21	1.85	0.59
1:l:246:THR:OG1	1:l:677:GLN:NE2	2.27	0.59
1:q:351:PRO:HB3	1:s:428:GLN:NE2	2.17	0.59
1:r:428:GLN:NE2	1:s:351:PRO:HB3	2.17	0.59
1:t:283:ASP:HB3	1:t:354:LEU:HD21	1.84	0.59
1:x:283:ASP:HB3	1:x:354:LEU:HD21	1.84	0.59
1:z:283:ASP:HB3	1:z:354:LEU:HD21	1.84	0.59
1:8:416:GLU:OE1	1:8:640:LYS:N	2.35	0.59
1:A:352:TYR:HA	1:A:645:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:352:TYR:HA	1:D:645:GLN:NE2	2.18	0.59
1:G:283:ASP:HB3	1:G:354:LEU:HD21	1.84	0.59
1:J:352:TYR:HA	1:J:645:GLN:NE2	2.18	0.59
1:L:283:ASP:HB3	1:L:354:LEU:HD21	1.84	0.59
1:N:434:MET:SD	1:N:473:GLN:NE2	2.76	0.59
1:P:416:GLU:OE1	1:P:640:LYS:N	2.35	0.59
1:Q:283:ASP:HB3	1:Q:354:LEU:HD21	1.84	0.59
1:Q:352:TYR:HA	1:Q:645:GLN:NE2	2.18	0.59
1:S:428:GLN:NE2	1:U:351:PRO:HB3	2.17	0.59
1:S:434:MET:SD	1:S:473:GLN:NE2	2.76	0.59
1:T:416:GLU:OE1	1:T:640:LYS:N	2.35	0.59
1:Z:416:GLU:OE1	1:Z:640:LYS:N	2.35	0.59
1:d:416:GLU:OE1	1:d:640:LYS:N	2.35	0.59
1:k:352:TYR:HA	1:k:645:GLN:NE2	2.18	0.59
1:l:281:TYR:HB3	1:l:647:LEU:HD13	1.83	0.59
1:n:283:ASP:HB3	1:n:354:LEU:HD21	1.84	0.59
1:p:283:ASP:HB3	1:p:354:LEU:HD21	1.84	0.59
1:r:434:MET:SD	1:r:473:GLN:NE2	2.76	0.59
1:t:416:GLU:OE1	1:t:640:LYS:N	2.35	0.59
1:u:281:TYR:HB3	1:u:647:LEU:HD13	1.83	0.59
1:w:352:TYR:HA	1:w:645:GLN:NE2	2.18	0.59
1:w:428:GLN:NE2	1:x:351:PRO:HB3	2.17	0.59
1:x:352:TYR:HA	1:x:645:GLN:NE2	2.18	0.59
1:5:353:VAL:N	1:5:645:GLN:NE2	2.50	0.59
1:8:434:MET:SD	1:8:473:GLN:NE2	2.76	0.59
1:A:416:GLU:OE1	1:A:640:LYS:N	2.35	0.59
1:A:434:MET:SD	1:A:473:GLN:NE2	2.76	0.59
1:B:352:TYR:HA	1:B:645:GLN:NE2	2.18	0.59
1:C:339:THR:HG22	1:C:404:ARG:CG	2.33	0.59
1:E:428:GLN:NE2	1:Q:351:PRO:HB3	2.17	0.59
1:F:352:TYR:HA	1:F:645:GLN:NE2	2.18	0.59
1:G:281:TYR:HB3	1:G:647:LEU:HD13	1.83	0.59
1:H:339:THR:HG22	1:H:404:ARG:CG	2.33	0.59
1:I:283:ASP:HB3	1:I:354:LEU:HD21	1.84	0.59
1:K:434:MET:SD	1:K:473:GLN:NE2	2.76	0.59
1:N:428:GLN:NE2	1:P:351:PRO:HB3	2.17	0.59
1:O:281:TYR:HB3	1:O:647:LEU:HD13	1.83	0.59
1:O:428:GLN:NE2	1:m:351:PRO:HB3	2.17	0.59
1:Q:319:GLN:N	1:Q:675:THR:O	2.33	0.59
1:Q:353:VAL:N	1:Q:645:GLN:NE2	2.50	0.59
1:V:283:ASP:HB3	1:V:354:LEU:HD21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:352:TYR:HA	1:V:645:GLN:NE2	2.18	0.59
1:Z:428:GLN:NE2	1:4:351:PRO:HB3	2.17	0.59
1:Z:434:MET:SD	1:Z:473:GLN:NE2	2.76	0.59
1:d:352:TYR:HA	1:d:645:GLN:NE2	2.18	0.59
1:e:416:GLU:OE1	1:e:640:LYS:N	2.35	0.59
1:g:339:THR:HG22	1:g:404:ARG:CG	2.33	0.59
1:g:434:MET:SD	1:g:473:GLN:NE2	2.76	0.59
1:i:434:MET:SD	1:i:473:GLN:NE2	2.76	0.59
1:r:416:GLU:OE1	1:r:640:LYS:N	2.35	0.59
1:u:283:ASP:HB3	1:u:354:LEU:HD21	1.84	0.59
1:v:352:TYR:HA	1:v:645:GLN:NE2	2.18	0.59
1:v:434:MET:SD	1:v:473:GLN:NE2	2.76	0.59
1:x:353:VAL:N	1:x:645:GLN:NE2	2.50	0.59
1:y:352:TYR:HA	1:y:645:GLN:NE2	2.18	0.59
1:2:352:TYR:HA	1:2:645:GLN:NE2	2.18	0.59
1:2:416:GLU:OE1	1:2:640:LYS:N	2.35	0.59
1:4:281:TYR:HB3	1:4:647:LEU:HD13	1.83	0.59
1:4:434:MET:SD	1:4:473:GLN:NE2	2.76	0.59
1:7:339:THR:HG22	1:7:404:ARG:CG	2.33	0.59
1:B:434:MET:SD	1:B:473:GLN:NE2	2.76	0.59
1:C:434:MET:SD	1:C:473:GLN:NE2	2.76	0.59
1:D:281:TYR:HB3	1:D:647:LEU:HD13	1.83	0.59
1:E:352:TYR:HA	1:E:645:GLN:NE2	2.18	0.59
1:E:434:MET:SD	1:E:473:GLN:NE2	2.76	0.59
1:J:416:GLU:OE1	1:J:640:LYS:N	2.35	0.59
1:K:281:TYR:HB3	1:K:647:LEU:HD13	1.83	0.59
1:K:351:PRO:HB3	1:8:428:GLN:NE2	2.17	0.59
1:S:281:TYR:HB3	1:S:647:LEU:HD13	1.83	0.59
1:T:351:PRO:HB3	1:l:428:GLN:NE2	2.17	0.59
1:U:416:GLU:OE1	1:U:640:LYS:N	2.35	0.59
1:X:352:TYR:HA	1:X:645:GLN:NE2	2.18	0.59
1:Y:339:THR:HG22	1:Y:404:ARG:CG	2.33	0.59
1:Y:352:TYR:HA	1:Y:645:GLN:NE2	2.18	0.59
1:Y:434:MET:SD	1:Y:473:GLN:NE2	2.76	0.59
1:c:416:GLU:OE1	1:c:640:LYS:N	2.35	0.59
1:d:283:ASP:HB3	1:d:354:LEU:HD21	1.84	0.59
1:f:428:GLN:NE2	1:h:351:PRO:HB3	2.17	0.59
1:h:339:THR:HG22	1:h:404:ARG:CG	2.33	0.59
1:i:428:GLN:NE2	1:j:351:PRO:HB3	2.17	0.59
1:j:281:TYR:HB3	1:j:647:LEU:HD13	1.83	0.59
1:k:281:TYR:HB3	1:k:647:LEU:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:283:ASP:HB3	1:m:354:LEU:HD21	1.84	0.59
1:n:352:TYR:HA	1:n:645:GLN:NE2	2.18	0.59
1:o:352:TYR:HA	1:o:645:GLN:NE2	2.18	0.59
1:p:352:TYR:HA	1:p:645:GLN:NE2	2.18	0.59
1:r:281:TYR:HB3	1:r:647:LEU:HD13	1.83	0.59
1:s:416:GLU:OE1	1:s:640:LYS:N	2.35	0.59
1:t:281:TYR:HB3	1:t:647:LEU:HD13	1.83	0.59
1:v:281:TYR:HB3	1:v:647:LEU:HD13	1.83	0.59
1:v:416:GLU:OE1	1:v:640:LYS:N	2.35	0.59
1:w:434:MET:SD	1:w:473:GLN:NE2	2.76	0.59
1:y:434:MET:SD	1:y:473:GLN:NE2	2.76	0.59
1:1:283:ASP:HB3	1:1:354:LEU:HD21	1.84	0.59
1:1:352:TYR:HA	1:1:645:GLN:NE2	2.18	0.59
1:1:434:MET:SD	1:1:473:GLN:NE2	2.76	0.59
1:3:351:PRO:HB3	1:4:428:GLN:NE2	2.17	0.59
1:5:281:TYR:HB3	1:5:647:LEU:HD13	1.83	0.59
1:5:339:THR:HG22	1:5:404:ARG:CG	2.33	0.59
1:7:352:TYR:HA	1:7:645:GLN:NE2	2.18	0.59
1:7:434:MET:SD	1:7:473:GLN:NE2	2.76	0.59
1:A:281:TYR:HB3	1:A:647:LEU:HD13	1.83	0.59
1:A:339:THR:HG22	1:A:404:ARG:CG	2.33	0.59
1:B:283:ASP:HB3	1:B:354:LEU:HD21	1.84	0.59
1:B:416:GLU:OE1	1:B:640:LYS:N	2.35	0.59
1:D:434:MET:SD	1:D:473:GLN:NE2	2.76	0.59
1:E:283:ASP:HB3	1:E:354:LEU:HD21	1.84	0.59
1:F:434:MET:SD	1:F:473:GLN:NE2	2.76	0.59
1:I:339:THR:HG22	1:I:404:ARG:CG	2.33	0.59
1:K:428:GLN:NE2	1:a:351:PRO:HB3	2.17	0.59
1:M:339:THR:HG22	1:M:404:ARG:CG	2.33	0.59
1:M:351:PRO:HB3	1:b:428:GLN:NE2	2.17	0.59
1:P:281:TYR:HB3	1:P:647:LEU:HD13	1.83	0.59
1:R:339:THR:HG22	1:R:404:ARG:CG	2.33	0.59
1:U:352:TYR:HA	1:U:645:GLN:NE2	2.18	0.59
1:W:416:GLU:OE1	1:W:640:LYS:N	2.35	0.59
1:X:319:GLN:N	1:X:675:THR:O	2.33	0.59
1:a:352:TYR:HA	1:a:645:GLN:NE2	2.18	0.59
1:a:416:GLU:OE1	1:a:640:LYS:N	2.35	0.59
1:c:339:THR:HG22	1:c:404:ARG:CG	2.33	0.59
1:e:339:THR:HG22	1:e:404:ARG:CG	2.33	0.59
1:k:434:MET:SD	1:k:473:GLN:NE2	2.76	0.59
1:n:339:THR:HG22	1:n:404:ARG:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:352:TYR:HA	1:r:645:GLN:NE2	2.18	0.59
1:s:352:TYR:HA	1:s:645:GLN:NE2	2.18	0.59
1:v:339:THR:HG22	1:v:404:ARG:CG	2.33	0.59
1:6:283:ASP:HB3	1:6:354:LEU:HD21	1.85	0.59
1:E:339:THR:HG22	1:E:404:ARG:CG	2.33	0.58
1:G:339:THR:HG22	1:G:404:ARG:CG	2.33	0.58
1:J:428:GLN:NE2	1:L:351:PRO:HB3	2.17	0.58
1:O:416:GLU:OE1	1:O:640:LYS:N	2.35	0.58
1:S:352:TYR:HA	1:S:645:GLN:NE2	2.18	0.58
1:T:283:ASP:HB3	1:T:354:LEU:HD21	1.84	0.58
1:W:283:ASP:HB3	1:W:354:LEU:HD21	1.85	0.58
1:b:283:ASP:HB3	1:b:354:LEU:HD21	1.84	0.58
1:d:339:THR:HG22	1:d:404:ARG:CG	2.33	0.58
1:d:434:MET:SD	1:d:473:GLN:NE2	2.76	0.58
1:f:283:ASP:HB3	1:f:354:LEU:HD21	1.84	0.58
1:h:283:ASP:HB3	1:h:354:LEU:HD21	1.84	0.58
1:i:416:GLU:OE1	1:i:640:LYS:N	2.35	0.58
1:m:434:MET:SD	1:m:473:GLN:NE2	2.76	0.58
1:n:434:MET:SD	1:n:473:GLN:NE2	2.76	0.58
1:o:428:GLN:NE2	1:p:351:PRO:HB3	2.17	0.58
1:q:339:THR:HG22	1:q:404:ARG:CG	2.33	0.58
1:t:319:GLN:N	1:t:675:THR:O	2.33	0.58
1:u:339:THR:HG22	1:u:404:ARG:CG	2.33	0.58
1:w:283:ASP:HB3	1:w:354:LEU:HD21	1.84	0.58
1:3:416:GLU:OE1	1:3:640:LYS:N	2.35	0.58
1:6:416:GLU:OE1	1:6:640:LYS:N	2.35	0.58
1:8:352:TYR:HA	1:8:645:GLN:NE2	2.18	0.58
1:F:416:GLU:OE1	1:F:640:LYS:N	2.35	0.58
1:G:434:MET:SD	1:G:473:GLN:NE2	2.76	0.58
1:H:281:TYR:HB3	1:H:647:LEU:HD13	1.83	0.58
1:J:434:MET:SD	1:J:473:GLN:NE2	2.76	0.58
1:L:339:THR:HG22	1:L:404:ARG:CG	2.33	0.58
1:M:319:GLN:N	1:M:675:THR:O	2.33	0.58
1:M:416:GLU:OE1	1:M:640:LYS:N	2.35	0.58
1:Q:434:MET:SD	1:Q:473:GLN:NE2	2.76	0.58
1:S:339:THR:HG22	1:S:404:ARG:CG	2.33	0.58
1:T:434:MET:SD	1:T:473:GLN:NE2	2.76	0.58
1:V:351:PRO:HB3	1:X:428:GLN:NE2	2.17	0.58
1:a:428:GLN:NE2	1:8:351:PRO:HB3	2.17	0.58
1:c:434:MET:SD	1:c:473:GLN:NE2	2.76	0.58
1:e:434:MET:SD	1:e:473:GLN:NE2	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:416:GLU:OE1	1:h:640:LYS:N	2.35	0.58
1:l:416:GLU:OE1	1:l:640:LYS:N	2.35	0.58
1:t:339:THR:HG22	1:t:404:ARG:CG	2.33	0.58
1:t:434:MET:SD	1:t:473:GLN:NE2	2.76	0.58
1:w:339:THR:HG22	1:w:404:ARG:CG	2.33	0.58
1:x:434:MET:SD	1:x:473:GLN:NE2	2.76	0.58
1:z:339:THR:HG22	1:z:404:ARG:CG	2.33	0.58
1:1:416:GLU:OE1	1:1:640:LYS:N	2.35	0.58
1:2:434:MET:SD	1:2:473:GLN:NE2	2.76	0.58
1:3:352:TYR:HA	1:3:645:GLN:NE2	2.18	0.58
1:4:352:TYR:HA	1:4:645:GLN:NE2	2.18	0.58
1:6:428:GLN:NE2	1:7:351:PRO:HB3	2.17	0.58
1:H:352:TYR:HA	1:H:645:GLN:NE2	2.18	0.58
1:I:434:MET:SD	1:I:473:GLN:NE2	2.76	0.58
1:M:283:ASP:HB3	1:M:354:LEU:HD21	1.84	0.58
1:N:416:GLU:OE1	1:N:640:LYS:N	2.35	0.58
1:P:352:TYR:HA	1:P:645:GLN:NE2	2.18	0.58
1:W:428:GLN:NE2	1:Y:351:PRO:HB3	2.17	0.58
1:Z:352:TYR:HA	1:Z:645:GLN:NE2	2.18	0.58
1:c:353:VAL:N	1:c:645:GLN:HE22	2.00	0.58
1:i:339:THR:HG22	1:i:404:ARG:CG	2.33	0.58
1:o:319:GLN:N	1:o:675:THR:O	2.33	0.58
1:o:434:MET:SD	1:o:473:GLN:NE2	2.76	0.58
1:r:339:THR:HG22	1:r:404:ARG:CG	2.33	0.58
1:t:353:VAL:N	1:t:645:GLN:HE22	2.00	0.58
1:z:351:PRO:HB3	1:2:428:GLN:NE2	2.17	0.58
1:5:352:TYR:HA	1:5:645:GLN:NE2	2.18	0.58
1:6:353:VAL:N	1:6:645:GLN:HE22	2.00	0.58
1:8:283:ASP:HB3	1:8:354:LEU:HD21	1.84	0.58
1:C:353:VAL:N	1:C:645:GLN:HE22	2.00	0.58
1:F:353:VAL:N	1:F:645:GLN:NE2	2.50	0.58
1:G:319:GLN:N	1:G:675:THR:O	2.33	0.58
1:K:352:TYR:HA	1:K:645:GLN:NE2	2.18	0.58
1:N:339:THR:HG22	1:N:404:ARG:CG	2.33	0.58
1:X:339:THR:HG22	1:X:404:ARG:CG	2.33	0.58
1:X:434:MET:SD	1:X:473:GLN:NE2	2.76	0.58
1:Z:351:PRO:HB3	1:3:428:GLN:NE2	2.17	0.58
1:b:434:MET:SD	1:b:473:GLN:NE2	2.76	0.58
1:f:434:MET:SD	1:f:473:GLN:NE2	2.76	0.58
1:g:353:VAL:N	1:g:645:GLN:HE22	2.00	0.58
1:h:319:GLN:N	1:h:675:THR:O	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:352:TYR:HA	1:j:645:GLN:NE2	2.18	0.58
1:l:339:THR:HG22	1:l:404:ARG:CG	2.33	0.58
1:q:319:GLN:N	1:q:675:THR:O	2.33	0.58
1:u:434:MET:SD	1:u:473:GLN:NE2	2.76	0.58
1:y:416:GLU:OE1	1:y:640:LYS:N	2.35	0.58
1:G:353:VAL:N	1:G:645:GLN:HE22	2.00	0.58
1:H:353:VAL:N	1:H:645:GLN:HE22	2.00	0.58
1:I:416:GLU:OE1	1:I:640:LYS:N	2.35	0.58
1:J:339:THR:HG22	1:J:404:ARG:CG	2.33	0.58
1:K:339:THR:HG22	1:K:404:ARG:CG	2.33	0.58
1:L:353:VAL:N	1:L:645:GLN:HE22	2.00	0.58
1:M:434:MET:SD	1:M:473:GLN:NE2	2.76	0.58
1:O:339:THR:HG22	1:O:404:ARG:CG	2.33	0.58
1:O:434:MET:SD	1:O:473:GLN:NE2	2.76	0.58
1:R:352:TYR:HA	1:R:645:GLN:NE2	2.18	0.58
1:U:319:GLN:N	1:U:675:THR:O	2.33	0.58
1:W:353:VAL:N	1:W:645:GLN:HE22	2.00	0.58
1:Z:283:ASP:HB3	1:Z:354:LEU:HD21	1.84	0.58
1:e:353:VAL:N	1:e:645:GLN:HE22	2.00	0.58
1:h:434:MET:SD	1:h:473:GLN:NE2	2.76	0.58
1:z:416:GLU:OE1	1:z:640:LYS:N	2.35	0.58
1:2:339:THR:HG22	1:2:404:ARG:CG	2.33	0.58
1:B:353:VAL:N	1:B:645:GLN:HE22	2.00	0.58
1:C:319:GLN:N	1:C:675:THR:O	2.33	0.58
1:L:416:GLU:OE1	1:L:640:LYS:N	2.35	0.58
1:M:352:TYR:HA	1:M:645:GLN:NE2	2.18	0.58
1:U:434:MET:SD	1:U:473:GLN:NE2	2.76	0.58
1:b:339:THR:HG22	1:b:404:ARG:CG	2.33	0.58
1:f:339:THR:HG22	1:f:404:ARG:CG	2.33	0.58
1:l:434:MET:SD	1:l:473:GLN:NE2	2.76	0.58
1:o:339:THR:HG22	1:o:404:ARG:CG	2.33	0.58
1:q:352:TYR:HA	1:q:645:GLN:NE2	2.18	0.58
1:s:434:MET:SD	1:s:473:GLN:NE2	2.76	0.58
1:y:353:VAL:N	1:y:645:GLN:NE2	2.50	0.58
1:z:353:VAL:N	1:z:645:GLN:HE22	2.00	0.58
1:3:283:ASP:HB3	1:3:354:LEU:HD21	1.84	0.58
1:4:339:THR:HG22	1:4:404:ARG:CG	2.33	0.58
1:A:283:ASP:HB3	1:A:354:LEU:HD21	1.84	0.58
1:I:352:TYR:HA	1:I:645:GLN:NE2	2.18	0.58
1:P:434:MET:SD	1:P:473:GLN:NE2	2.76	0.58
1:R:283:ASP:HB3	1:R:354:LEU:HD21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:319:GLN:N	1:R:675:THR:O	2.33	0.58
1:U:339:THR:HG22	1:U:404:ARG:CG	2.33	0.58
1:X:283:ASP:HB3	1:X:354:LEU:HD21	1.84	0.58
1:a:283:ASP:HB3	1:a:354:LEU:HD21	1.84	0.58
1:b:352:TYR:HA	1:b:645:GLN:NE2	2.18	0.58
1:e:283:ASP:HB3	1:e:354:LEU:HD21	1.84	0.58
1:f:416:GLU:OE1	1:f:640:LYS:N	2.35	0.58
1:g:319:GLN:N	1:g:675:THR:O	2.33	0.58
1:h:352:TYR:HA	1:h:645:GLN:NE2	2.18	0.58
1:l:283:ASP:HB3	1:l:354:LEU:HD21	1.84	0.58
1:p:339:THR:HG22	1:p:404:ARG:CG	2.33	0.58
1:q:283:ASP:HB3	1:q:354:LEU:HD21	1.84	0.58
1:u:416:GLU:OE1	1:u:640:LYS:N	2.35	0.58
1:v:283:ASP:HB3	1:v:354:LEU:HD21	1.84	0.58
1:w:379:THR:HG21	1:w:390:SER:HB3	1.86	0.58
1:1:353:VAL:N	1:1:645:GLN:HE22	2.00	0.58
1:2:283:ASP:HB3	1:2:354:LEU:HD21	1.84	0.58
1:5:353:VAL:N	1:5:645:GLN:HE22	2.00	0.58
1:B:339:THR:HG22	1:B:404:ARG:CG	2.33	0.58
1:C:353:VAL:N	1:C:645:GLN:NE2	2.50	0.58
1:D:416:GLU:OE1	1:D:640:LYS:N	2.35	0.58
1:E:379:THR:HG21	1:E:390:SER:HB3	1.86	0.58
1:F:339:THR:HG22	1:F:404:ARG:CG	2.33	0.58
1:J:283:ASP:HB3	1:J:354:LEU:HD21	1.84	0.58
1:N:319:GLN:N	1:N:675:THR:O	2.33	0.58
1:O:283:ASP:HB3	1:O:354:LEU:HD21	1.84	0.58
1:R:434:MET:SD	1:R:473:GLN:NE2	2.76	0.58
1:V:339:THR:HG22	1:V:404:ARG:CG	2.33	0.58
1:a:379:THR:HG21	1:a:390:SER:HB3	1.86	0.58
1:i:319:GLN:N	1:i:675:THR:O	2.33	0.58
1:q:379:THR:HG21	1:q:390:SER:HB3	1.86	0.58
1:s:319:GLN:N	1:s:675:THR:O	2.33	0.58
1:s:339:THR:HG22	1:s:404:ARG:CG	2.33	0.58
1:3:379:THR:HG21	1:3:390:SER:HB3	1.86	0.58
1:5:416:GLU:OE1	1:5:640:LYS:N	2.35	0.58
1:A:379:THR:HG21	1:A:390:SER:HB3	1.86	0.58
1:A:694:TRP:HE1	1:F:720:TYR:HE1	1.52	0.58
1:N:352:TYR:HA	1:N:645:GLN:NE2	2.18	0.58
1:Q:694:TRP:HE1	1:R:720:TYR:HE1	1.52	0.58
1:R:379:THR:HG21	1:R:390:SER:HB3	1.86	0.58
1:W:339:THR:HG22	1:W:404:ARG:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:416:GLU:OE1	1:b:640:LYS:N	2.35	0.58
1:c:283:ASP:HB3	1:c:354:LEU:HD21	1.84	0.58
1:f:352:TYR:HA	1:f:645:GLN:NE2	2.18	0.58
1:g:353:VAL:N	1:g:645:GLN:NE2	2.50	0.58
1:j:319:GLN:N	1:j:675:THR:O	2.33	0.58
1:j:434:MET:SD	1:j:473:GLN:NE2	2.76	0.58
1:k:319:GLN:N	1:k:675:THR:O	2.33	0.58
1:k:416:GLU:OE1	1:k:640:LYS:N	2.35	0.58
1:o:283:ASP:HB3	1:o:354:LEU:HD21	1.84	0.58
1:q:434:MET:SD	1:q:473:GLN:NE2	2.76	0.58
1:q:720:TYR:HE1	1:x:694:TRP:HE1	1.52	0.58
1:r:319:GLN:N	1:r:675:THR:O	2.33	0.58
1:u:352:TYR:HA	1:u:645:GLN:NE2	2.18	0.58
1:v:379:THR:HG21	1:v:390:SER:HB3	1.86	0.58
1:1:339:THR:HG22	1:1:404:ARG:CG	2.33	0.58
1:A:353:VAL:N	1:A:645:GLN:NE2	2.50	0.58
1:B:353:VAL:N	1:B:645:GLN:NE2	2.50	0.58
1:E:353:VAL:N	1:E:645:GLN:NE2	2.50	0.58
1:F:379:THR:HG21	1:F:390:SER:HB3	1.86	0.58
1:H:416:GLU:OE1	1:H:640:LYS:N	2.35	0.58
1:J:379:THR:HG21	1:J:390:SER:HB3	1.86	0.58
1:N:379:THR:HG21	1:N:390:SER:HB3	1.86	0.58
1:W:379:THR:HG21	1:W:390:SER:HB3	1.86	0.58
1:Z:339:THR:HG22	1:Z:404:ARG:CG	2.33	0.58
1:s:379:THR:HG21	1:s:390:SER:HB3	1.86	0.58
1:t:352:TYR:HA	1:t:645:GLN:NE2	2.18	0.58
1:v:694:TRP:HE1	1:y:720:TYR:HE1	1.52	0.58
1:y:339:THR:HG22	1:y:404:ARG:CG	2.33	0.58
1:y:379:THR:HG21	1:y:390:SER:HB3	1.86	0.58
1:1:319:GLN:N	1:1:675:THR:O	2.33	0.58
1:2:379:THR:HG21	1:2:390:SER:HB3	1.86	0.58
1:6:339:THR:HG22	1:6:404:ARG:CG	2.33	0.58
1:6:379:THR:HG21	1:6:390:SER:HB3	1.86	0.58
1:B:319:GLN:N	1:B:675:THR:O	2.33	0.57
1:G:352:TYR:HA	1:G:645:GLN:NE2	2.18	0.57
1:G:694:TRP:HE1	1:H:720:TYR:HE1	1.52	0.57
1:K:353:VAL:N	1:K:645:GLN:NE2	2.50	0.57
1:M:379:THR:HG21	1:M:390:SER:HB3	1.86	0.57
1:R:353:VAL:N	1:R:645:GLN:HE22	2.00	0.57
1:T:339:THR:HG22	1:T:404:ARG:CG	2.33	0.57
1:T:379:THR:HG21	1:T:390:SER:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:379:THR:HG21	1:U:390:SER:HB3	1.86	0.57
1:W:352:TYR:HA	1:W:645:GLN:NE2	2.18	0.57
1:Y:694:TRP:HE1	1:Z:720:TYR:HE1	1.52	0.57
1:e:319:GLN:N	1:e:675:THR:O	2.33	0.57
1:i:352:TYR:HA	1:i:645:GLN:NE2	2.18	0.57
1:i:379:THR:HG21	1:i:390:SER:HB3	1.86	0.57
1:k:353:VAL:N	1:k:645:GLN:NE2	2.50	0.57
1:m:379:THR:HG21	1:m:390:SER:HB3	1.86	0.57
1:q:353:VAL:N	1:q:645:GLN:HE22	2.00	0.57
1:s:283:ASP:HB3	1:s:354:LEU:HD21	1.84	0.57
1:w:353:VAL:N	1:w:645:GLN:NE2	2.50	0.57
1:z:352:TYR:HA	1:z:645:GLN:NE2	2.18	0.57
1:7:694:TRP:HE1	1:8:720:TYR:HE1	1.52	0.57
1:8:339:THR:HG22	1:8:404:ARG:CG	2.33	0.57
1:8:379:THR:HG21	1:8:390:SER:HB3	1.86	0.57
1:D:319:GLN:N	1:D:675:THR:O	2.33	0.57
1:D:353:VAL:N	1:D:645:GLN:NE2	2.50	0.57
1:P:319:GLN:N	1:P:675:THR:O	2.33	0.57
1:S:319:GLN:N	1:S:675:THR:O	2.33	0.57
1:U:283:ASP:HB3	1:U:354:LEU:HD21	1.84	0.57
1:Z:379:THR:HG21	1:Z:390:SER:HB3	1.86	0.57
1:c:319:GLN:N	1:c:675:THR:O	2.33	0.57
1:h:379:THR:HG21	1:h:390:SER:HB3	1.86	0.57
1:i:353:VAL:N	1:i:645:GLN:HE22	2.00	0.57
1:p:720:TYR:HE1	1:s:694:TRP:HE1	1.52	0.57
1:t:694:TRP:HE1	1:5:720:TYR:HE1	1.52	0.57
1:v:353:VAL:N	1:v:645:GLN:NE2	2.50	0.57
1:1:353:VAL:N	1:1:645:GLN:NE2	2.50	0.57
1:3:339:THR:HG22	1:3:404:ARG:CG	2.33	0.57
1:4:353:VAL:N	1:4:645:GLN:NE2	2.50	0.57
1:6:352:TYR:HA	1:6:645:GLN:NE2	2.18	0.57
1:7:319:GLN:N	1:7:675:THR:O	2.33	0.57
1:B:379:THR:HG21	1:B:390:SER:HB3	1.86	0.57
1:C:352:TYR:HA	1:C:645:GLN:NE2	2.18	0.57
1:C:379:THR:HG21	1:C:390:SER:HB3	1.86	0.57
1:G:720:TYR:HE1	1:H:694:TRP:HE1	1.52	0.57
1:K:283:ASP:HB3	1:K:354:LEU:HD21	1.84	0.57
1:L:352:TYR:HA	1:L:645:GLN:NE2	2.18	0.57
1:N:353:VAL:N	1:N:645:GLN:HE22	2.00	0.57
1:U:694:TRP:HE1	1:V:720:TYR:HE1	1.52	0.57
1:X:353:VAL:N	1:X:645:GLN:NE2	2.50	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:319:GLN:N	1:Y:675:THR:O	2.33	0.57
1:Y:353:VAL:N	1:Y:645:GLN:HE22	2.00	0.57
1:a:339:THR:HG22	1:a:404:ARG:CG	2.33	0.57
1:g:379:THR:HG21	1:g:390:SER:HB3	1.86	0.57
1:k:339:THR:HG22	1:k:404:ARG:CG	2.33	0.57
1:m:339:THR:HG22	1:m:404:ARG:CG	2.33	0.57
1:x:339:THR:HG22	1:x:404:ARG:CG	2.33	0.57
1:x:379:THR:HG21	1:x:390:SER:HB3	1.86	0.57
1:1:379:THR:HG21	1:1:390:SER:HB3	1.86	0.57
1:4:283:ASP:HB3	1:4:354:LEU:HD21	1.84	0.57
1:D:339:THR:HG22	1:D:404:ARG:CG	2.33	0.57
1:P:283:ASP:HB3	1:P:354:LEU:HD21	1.85	0.57
1:Q:339:THR:HG22	1:Q:404:ARG:CG	2.33	0.57
1:Q:379:THR:HG21	1:Q:390:SER:HB3	1.86	0.57
1:d:379:THR:HG21	1:d:390:SER:HB3	1.86	0.57
1:e:379:THR:HG21	1:e:390:SER:HB3	1.86	0.57
1:m:619:ALA:HB3	1:m:632:PRO:HG3	1.87	0.57
1:r:619:ALA:HB3	1:r:632:PRO:HG3	1.87	0.57
1:t:720:TYR:HE1	1:5:694:TRP:HE1	1.52	0.57
1:S:619:ALA:HB3	1:S:632:PRO:HG3	1.87	0.57
1:T:619:ALA:HB3	1:T:632:PRO:HG3	1.87	0.57
1:W:694:TRP:HE1	1:X:720:TYR:HE1	1.52	0.57
1:W:720:TYR:HE1	1:X:694:TRP:HE1	1.52	0.57
1:b:720:TYR:HE1	1:c:694:TRP:HE1	1.52	0.57
1:g:352:TYR:HA	1:g:645:GLN:NE2	2.18	0.57
1:j:283:ASP:HB3	1:j:354:LEU:HD21	1.85	0.57
1:j:339:THR:HG22	1:j:404:ARG:CG	2.33	0.57
1:n:379:THR:HG21	1:n:390:SER:HB3	1.86	0.57
1:o:694:TRP:HE1	1:6:720:TYR:HE1	1.52	0.57
1:o:720:TYR:HE1	1:6:694:TRP:HE1	1.52	0.57
1:7:353:VAL:N	1:7:645:GLN:HE22	2.00	0.57
1:H:379:THR:HG21	1:H:390:SER:HB3	1.86	0.57
1:I:319:GLN:N	1:I:675:THR:O	2.33	0.57
1:O:353:VAL:N	1:O:645:GLN:NE2	2.50	0.57
1:c:379:THR:HG21	1:c:390:SER:HB3	1.86	0.57
1:o:353:VAL:N	1:o:645:GLN:NE2	2.50	0.57
1:u:614:GLN:HE22	1:u:725:PRO:HA	1.70	0.57
1:x:353:VAL:N	1:x:645:GLN:HE22	2.00	0.57
1:5:379:THR:HG21	1:5:390:SER:HB3	1.86	0.57
1:B:694:TRP:HE1	1:I:720:TYR:HE1	1.52	0.57
1:I:379:THR:HG21	1:I:390:SER:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:614:GLN:HE22	1:I:725:PRO:HA	1.70	0.57
1:P:339:THR:HG22	1:P:404:ARG:CG	2.33	0.57
1:P:379:THR:HG21	1:P:390:SER:HB3	1.86	0.57
1:a:694:TRP:HE1	1:3:720:TYR:HE1	1.52	0.57
1:a:720:TYR:HE1	1:3:694:TRP:HE1	1.52	0.57
1:e:694:TRP:HE1	1:f:720:TYR:HE1	1.52	0.57
1:h:614:GLN:HE22	1:h:725:PRO:HA	1.70	0.57
1:l:353:VAL:N	1:l:645:GLN:NE2	2.50	0.57
1:t:379:THR:HG21	1:t:390:SER:HB3	1.86	0.57
1:2:614:GLN:HE22	1:2:725:PRO:HA	1.70	0.57
1:6:319:GLN:N	1:6:675:THR:O	2.33	0.57
1:C:614:GLN:HE22	1:C:725:PRO:HA	1.70	0.57
1:J:614:GLN:HE22	1:J:725:PRO:HA	1.70	0.57
1:M:614:GLN:HE22	1:M:725:PRO:HA	1.70	0.57
1:P:353:VAL:N	1:P:645:GLN:HE22	2.00	0.57
1:U:619:ALA:HB3	1:U:632:PRO:HG3	1.87	0.57
1:V:619:ALA:HB3	1:V:632:PRO:HG3	1.87	0.57
1:c:614:GLN:HE22	1:c:725:PRO:HA	1.70	0.57
1:e:614:GLN:HE22	1:e:725:PRO:HA	1.70	0.57
1:g:614:GLN:HE22	1:g:725:PRO:HA	1.70	0.57
1:j:379:THR:HG21	1:j:390:SER:HB3	1.86	0.57
1:p:619:ALA:HB3	1:p:632:PRO:HG3	1.87	0.57
1:r:379:THR:HG21	1:r:390:SER:HB3	1.86	0.57
1:s:619:ALA:HB3	1:s:632:PRO:HG3	1.87	0.57
1:u:319:GLN:N	1:u:675:THR:O	2.33	0.57
1:u:379:THR:HG21	1:u:390:SER:HB3	1.86	0.57
1:u:720:TYR:HE1	1:1:694:TRP:HE1	1.52	0.57
1:D:508:TYR:HD1	1:D:517:VAL:HG22	1.70	0.57
1:D:614:GLN:HE22	1:D:725:PRO:HA	1.70	0.57
1:G:379:THR:HG21	1:G:390:SER:HB3	1.86	0.57
1:N:694:TRP:HE1	1:O:720:TYR:HE1	1.52	0.57
1:Q:353:VAL:N	1:Q:645:GLN:HE22	2.00	0.57
1:S:379:THR:HG21	1:S:390:SER:HB3	1.86	0.57
1:T:614:GLN:HE22	1:T:725:PRO:HA	1.70	0.57
1:X:614:GLN:HE22	1:X:725:PRO:HA	1.70	0.57
1:j:353:VAL:N	1:j:645:GLN:HE22	2.00	0.57
1:k:614:GLN:HE22	1:k:725:PRO:HA	1.70	0.57
1:o:614:GLN:HE22	1:o:725:PRO:HA	1.70	0.57
1:2:319:GLN:N	1:2:675:THR:O	2.33	0.57
1:6:614:GLN:HE22	1:6:725:PRO:HA	1.70	0.57
1:7:614:GLN:HE22	1:7:725:PRO:HA	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:602:PRO:CD	1:G:481:PRO:HG3	2.35	0.57
1:A:619:ALA:HB3	1:A:632:PRO:HG3	1.87	0.57
1:O:508:TYR:HD1	1:O:517:VAL:HG22	1.70	0.57
1:S:720:TYR:HE1	1:T:694:TRP:HE1	1.52	0.57
1:V:379:THR:HG21	1:V:390:SER:HB3	1.86	0.57
1:W:319:GLN:N	1:W:675:THR:O	2.33	0.57
1:W:614:GLN:HE22	1:W:725:PRO:HA	1.70	0.57
1:Y:614:GLN:HE22	1:Y:725:PRO:HA	1.70	0.57
1:d:694:TRP:HE1	1:n:720:TYR:HE1	1.52	0.57
1:f:379:THR:HG21	1:f:390:SER:HB3	1.86	0.57
1:k:508:TYR:HD1	1:k:517:VAL:HG22	1.70	0.57
1:l:508:TYR:HD1	1:l:517:VAL:HG22	1.70	0.57
1:m:694:TRP:HE1	1:r:720:TYR:HE1	1.52	0.57
1:t:481:PRO:HG3	1:v:602:PRO:CD	2.35	0.57
1:u:694:TRP:HE1	1:1:720:TYR:HE1	1.52	0.57
1:v:319:GLN:N	1:v:675:THR:O	2.33	0.57
1:B:720:TYR:HE1	1:I:694:TRP:HE1	1.52	0.56
1:C:481:PRO:HG3	1:M:602:PRO:CD	2.35	0.56
1:D:481:PRO:HG3	1:P:602:PRO:CD	2.35	0.56
1:E:602:PRO:CD	1:Q:481:PRO:HG3	2.35	0.56
1:F:619:ALA:HB3	1:F:632:PRO:HG3	1.87	0.56
1:G:602:PRO:CD	1:I:481:PRO:HG3	2.35	0.56
1:H:481:PRO:HG3	1:Y:602:PRO:CD	2.35	0.56
1:J:720:TYR:HE1	1:K:694:TRP:HE1	1.52	0.56
1:L:379:THR:HG21	1:L:390:SER:HB3	1.86	0.56
1:O:614:GLN:HE22	1:O:725:PRO:HA	1.70	0.56
1:a:614:GLN:HE22	1:a:725:PRO:HA	1.70	0.56
1:b:379:THR:HG21	1:b:390:SER:HB3	1.86	0.56
1:c:508:TYR:HD1	1:c:517:VAL:HG22	1.70	0.56
1:d:720:TYR:HE1	1:n:694:TRP:HE1	1.52	0.56
1:f:508:TYR:HD1	1:f:517:VAL:HG22	1.70	0.56
1:g:481:PRO:HG3	1:h:602:PRO:CD	2.35	0.56
1:i:694:TRP:HE1	1:l:720:TYR:HE1	1.52	0.56
1:j:602:PRO:CD	1:k:481:PRO:HG3	2.35	0.56
1:m:614:GLN:HE22	1:m:725:PRO:HA	1.70	0.56
1:p:379:THR:HG21	1:p:390:SER:HB3	1.86	0.56
1:t:602:PRO:CD	1:u:481:PRO:HG3	2.35	0.56
1:v:619:ALA:HB3	1:v:632:PRO:HG3	1.87	0.56
1:w:602:PRO:CD	1:x:481:PRO:HG3	2.35	0.56
1:y:619:ALA:HB3	1:y:632:PRO:HG3	1.87	0.56
1:z:379:THR:HG21	1:z:390:SER:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:508:TYR:HD1	1:z:517:VAL:HG22	1.70	0.56
1:3:353:VAL:N	1:3:645:GLN:NE2	2.50	0.56
1:3:614:GLN:HE22	1:3:725:PRO:HA	1.70	0.56
1:A:319:GLN:N	1:A:675:THR:O	2.33	0.56
1:B:481:PRO:HG3	1:L:602:PRO:CD	2.35	0.56
1:D:379:THR:HG21	1:D:390:SER:HB3	1.86	0.56
1:D:602:PRO:CD	1:N:481:PRO:HG3	2.35	0.56
1:J:602:PRO:CD	1:L:481:PRO:HG3	2.35	0.56
1:K:353:VAL:N	1:K:645:GLN:HE22	2.00	0.56
1:L:508:TYR:HD1	1:L:517:VAL:HG22	1.70	0.56
1:L:614:GLN:HE22	1:L:725:PRO:HA	1.70	0.56
1:M:353:VAL:N	1:M:645:GLN:NE2	2.50	0.56
1:Q:614:GLN:HE22	1:Q:725:PRO:HA	1.70	0.56
1:a:353:VAL:N	1:a:645:GLN:NE2	2.50	0.56
1:b:508:TYR:HD1	1:b:517:VAL:HG22	1.70	0.56
1:e:508:TYR:HD1	1:e:517:VAL:HG22	1.70	0.56
1:k:379:THR:HG21	1:k:390:SER:HB3	1.86	0.56
1:l:614:GLN:HE22	1:l:725:PRO:HA	1.70	0.56
1:n:508:TYR:HD1	1:n:517:VAL:HG22	1.70	0.56
1:w:508:TYR:HD1	1:w:517:VAL:HG22	1.70	0.56
1:x:614:GLN:HE22	1:x:725:PRO:HA	1.70	0.56
1:z:614:GLN:HE22	1:z:725:PRO:HA	1.70	0.56
1:2:720:TYR:HE1	1:4:694:TRP:HE1	1.52	0.56
1:4:614:GLN:HE22	1:4:725:PRO:HA	1.70	0.56
1:5:481:PRO:HG3	1:7:602:PRO:CD	2.35	0.56
1:7:379:THR:HG21	1:7:390:SER:HB3	1.86	0.56
1:A:481:PRO:HG3	1:I:602:PRO:CD	2.35	0.56
1:A:720:TYR:HE1	1:F:694:TRP:HE1	1.52	0.56
1:C:508:TYR:HD1	1:C:517:VAL:HG22	1.70	0.56
1:E:352:TYR:HA	1:E:645:GLN:HE22	1.71	0.56
1:E:353:VAL:N	1:E:645:GLN:HE22	2.00	0.56
1:E:508:TYR:HD1	1:E:517:VAL:HG22	1.70	0.56
1:F:352:TYR:HA	1:F:645:GLN:HE22	1.71	0.56
1:G:619:ALA:HB3	1:G:632:PRO:HG3	1.87	0.56
1:H:508:TYR:HD1	1:H:517:VAL:HG22	1.70	0.56
1:H:619:ALA:HB3	1:H:632:PRO:HG3	1.87	0.56
1:J:619:ALA:HB3	1:J:632:PRO:HG3	1.87	0.56
1:K:379:THR:HG21	1:K:390:SER:HB3	1.86	0.56
1:K:602:PRO:CD	1:a:481:PRO:HG3	2.35	0.56
1:K:614:GLN:HE22	1:K:725:PRO:HA	1.70	0.56
1:K:619:ALA:HB3	1:K:632:PRO:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:481:PRO:HG3	1:b:602:PRO:CD	2.35	0.56
1:N:508:TYR:HD1	1:N:517:VAL:HG22	1.70	0.56
1:P:614:GLN:HE22	1:P:725:PRO:HA	1.70	0.56
1:R:283:ASP:CB	1:R:354:LEU:HD21	2.36	0.56
1:R:353:VAL:N	1:R:645:GLN:NE2	2.50	0.56
1:T:352:TYR:HA	1:T:645:GLN:HE22	1.71	0.56
1:X:283:ASP:CB	1:X:354:LEU:HD21	2.36	0.56
1:Y:379:THR:HG21	1:Y:390:SER:HB3	1.86	0.56
1:Z:283:ASP:CB	1:Z:354:LEU:HD21	2.36	0.56
1:Z:352:TYR:HA	1:Z:645:GLN:HE22	1.71	0.56
1:c:283:ASP:CB	1:c:354:LEU:HD21	2.36	0.56
1:d:508:TYR:HD1	1:d:517:VAL:HG22	1.70	0.56
1:e:283:ASP:CB	1:e:354:LEU:HD21	2.36	0.56
1:f:602:PRO:CD	1:h:481:PRO:HG3	2.35	0.56
1:g:283:ASP:CB	1:g:354:LEU:HD21	2.36	0.56
1:g:319:GLN:O	1:g:675:THR:N	2.37	0.56
1:g:508:TYR:HD1	1:g:517:VAL:HG22	1.70	0.56
1:h:353:VAL:N	1:h:645:GLN:NE2	2.50	0.56
1:i:481:PRO:HG3	1:k:602:PRO:CD	2.35	0.56
1:i:508:TYR:HD1	1:i:517:VAL:HG22	1.70	0.56
1:j:614:GLN:HE22	1:j:725:PRO:HA	1.70	0.56
1:m:352:TYR:HA	1:m:645:GLN:HE22	1.71	0.56
1:o:283:ASP:CB	1:o:354:LEU:HD21	2.36	0.56
1:o:379:THR:HG21	1:o:390:SER:HB3	1.86	0.56
1:o:508:TYR:HD1	1:o:517:VAL:HG22	1.70	0.56
1:q:283:ASP:CB	1:q:354:LEU:HD21	2.36	0.56
1:u:602:PRO:CD	1:v:481:PRO:HG3	2.35	0.56
1:w:352:TYR:HA	1:w:645:GLN:HE22	1.71	0.56
1:w:353:VAL:N	1:w:645:GLN:HE22	2.00	0.56
1:y:352:TYR:HA	1:y:645:GLN:HE22	1.71	0.56
1:z:481:PRO:HG3	1:2:602:PRO:CD	2.35	0.56
1:z:602:PRO:CD	1:1:481:PRO:HG3	2.35	0.56
1:2:619:ALA:HB3	1:2:632:PRO:HG3	1.87	0.56
1:3:353:VAL:N	1:3:645:GLN:HE22	2.00	0.56
1:3:481:PRO:HG3	1:4:602:PRO:CD	2.35	0.56
1:4:353:VAL:N	1:4:645:GLN:HE22	2.00	0.56
1:4:379:THR:HG21	1:4:390:SER:HB3	1.86	0.56
1:4:619:ALA:HB3	1:4:632:PRO:HG3	1.87	0.56
1:5:508:TYR:HD1	1:5:517:VAL:HG22	1.70	0.56
1:5:619:ALA:HB3	1:5:632:PRO:HG3	1.87	0.56
1:7:352:TYR:HA	1:7:645:GLN:HE22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:283:ASP:CB	1:8:354:LEU:HD21	2.36	0.56
1:8:352:TYR:HA	1:8:645:GLN:HE22	1.71	0.56
1:C:283:ASP:CB	1:C:354:LEU:HD21	2.36	0.56
1:D:352:TYR:HA	1:D:645:GLN:HE22	1.71	0.56
1:F:614:GLN:HE22	1:F:725:PRO:HA	1.70	0.56
1:H:614:GLN:HE22	1:H:725:PRO:HA	1.70	0.56
1:I:283:ASP:CB	1:I:354:LEU:HD21	2.36	0.56
1:J:352:TYR:HA	1:J:645:GLN:HE22	1.71	0.56
1:S:283:ASP:CB	1:S:354:LEU:HD21	2.36	0.56
1:X:508:TYR:HD1	1:X:517:VAL:HG22	1.70	0.56
1:Y:352:TYR:HA	1:Y:645:GLN:HE22	1.71	0.56
1:Y:508:TYR:HD1	1:Y:517:VAL:HG22	1.70	0.56
1:Y:720:TYR:HE1	1:Z:694:TRP:HE1	1.52	0.56
1:a:353:VAL:N	1:a:645:GLN:HE22	2.00	0.56
1:d:352:TYR:HA	1:d:645:GLN:HE22	1.71	0.56
1:e:619:ALA:HB3	1:e:632:PRO:HG3	1.87	0.56
1:f:619:ALA:HB3	1:f:632:PRO:HG3	1.87	0.56
1:k:352:TYR:HA	1:k:645:GLN:HE22	1.71	0.56
1:n:352:TYR:HA	1:n:645:GLN:HE22	1.71	0.56
1:q:353:VAL:N	1:q:645:GLN:NE2	2.50	0.56
1:r:283:ASP:CB	1:r:354:LEU:HD21	2.36	0.56
1:t:619:ALA:HB3	1:t:632:PRO:HG3	1.87	0.56
1:u:283:ASP:CB	1:u:354:LEU:HD21	2.36	0.56
1:v:720:TYR:HE1	1:y:694:TRP:HE1	1.52	0.56
1:7:720:TYR:HE1	1:8:694:TRP:HE1	1.52	0.56
1:C:319:GLN:O	1:C:675:THR:N	2.37	0.56
1:N:352:TYR:HA	1:N:645:GLN:HE22	1.71	0.56
1:P:619:ALA:HB3	1:P:632:PRO:HG3	1.87	0.56
1:T:283:ASP:CB	1:T:354:LEU:HD21	2.36	0.56
1:T:508:TYR:HD1	1:T:517:VAL:HG22	1.70	0.56
1:U:283:ASP:CB	1:U:354:LEU:HD21	2.36	0.56
1:V:353:VAL:N	1:V:645:GLN:NE2	2.50	0.56
1:X:379:THR:HG21	1:X:390:SER:HB3	1.86	0.56
1:b:619:ALA:HB3	1:b:632:PRO:HG3	1.87	0.56
1:c:619:ALA:HB3	1:c:632:PRO:HG3	1.87	0.56
1:f:614:GLN:HE22	1:f:725:PRO:HA	1.70	0.56
1:j:619:ALA:HB3	1:j:632:PRO:HG3	1.87	0.56
1:p:614:GLN:HE22	1:p:725:PRO:HA	1.70	0.56
1:w:619:ALA:HB3	1:w:632:PRO:HG3	1.87	0.56
1:y:614:GLN:HE22	1:y:725:PRO:HA	1.70	0.56
1:z:283:ASP:CB	1:z:354:LEU:HD21	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:352:TYR:HA	1:1:645:GLN:HE22	1.71	0.56
1:2:352:TYR:HA	1:2:645:GLN:HE22	1.71	0.56
1:5:352:TYR:HA	1:5:645:GLN:HE22	1.71	0.56
1:5:614:GLN:HE22	1:5:725:PRO:HA	1.70	0.56
1:6:283:ASP:CB	1:6:354:LEU:HD21	2.36	0.56
1:7:508:TYR:HD1	1:7:517:VAL:HG22	1.70	0.56
1:B:352:TYR:HA	1:B:645:GLN:HE22	1.71	0.56
1:B:619:ALA:HB3	1:B:632:PRO:HG3	1.87	0.56
1:C:694:TRP:HE1	1:L:720:TYR:HE1	1.52	0.56
1:E:614:GLN:HE22	1:E:725:PRO:HA	1.70	0.56
1:E:619:ALA:HB3	1:E:632:PRO:HG3	1.87	0.56
1:E:694:TRP:HE1	1:P:720:TYR:HE1	1.52	0.56
1:H:352:TYR:HA	1:H:645:GLN:HE22	1.71	0.56
1:L:283:ASP:CB	1:L:354:LEU:HD21	2.36	0.56
1:M:508:TYR:HD1	1:M:517:VAL:HG22	1.70	0.56
1:T:481:PRO:HG3	1:l:602:PRO:CD	2.35	0.56
1:W:283:ASP:CB	1:W:354:LEU:HD21	2.36	0.56
1:b:614:GLN:HE22	1:b:725:PRO:HA	1.70	0.56
1:h:508:TYR:HD1	1:h:517:VAL:HG22	1.70	0.56
1:i:352:TYR:HA	1:i:645:GLN:HE22	1.71	0.56
1:m:283:ASP:CB	1:m:354:LEU:HD21	2.36	0.56
1:m:508:TYR:HD1	1:m:517:VAL:HG22	1.70	0.56
1:q:481:PRO:HG3	1:s:602:PRO:CD	2.35	0.56
1:s:283:ASP:CB	1:s:354:LEU:HD21	2.36	0.56
1:v:283:ASP:CB	1:v:354:LEU:HD21	2.36	0.56
1:A:283:ASP:CB	1:A:354:LEU:HD21	2.36	0.56
1:F:508:TYR:HD1	1:F:517:VAL:HG22	1.70	0.56
1:H:602:PRO:CD	1:W:481:PRO:HG3	2.35	0.56
1:I:619:ALA:HB3	1:I:632:PRO:HG3	1.87	0.56
1:J:283:ASP:CB	1:J:354:LEU:HD21	2.36	0.56
1:O:379:THR:HG21	1:O:390:SER:HB3	1.86	0.56
1:O:602:PRO:CD	1:m:481:PRO:HG3	2.35	0.56
1:R:481:PRO:HG3	1:U:602:PRO:CD	2.35	0.56
1:R:508:TYR:HD1	1:R:517:VAL:HG22	1.70	0.56
1:U:508:TYR:HD1	1:U:517:VAL:HG22	1.70	0.56
1:V:602:PRO:CD	1:e:481:PRO:HG3	2.35	0.56
1:X:352:TYR:HA	1:X:645:GLN:HE22	1.71	0.56
1:f:353:VAL:N	1:f:645:GLN:HE22	2.00	0.56
1:g:694:TRP:HE1	1:z:720:TYR:HE1	1.52	0.56
1:i:602:PRO:CD	1:j:481:PRO:HG3	2.35	0.56
1:k:283:ASP:CB	1:k:354:LEU:HD21	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:379:THR:HG21	1:l:390:SER:HB3	1.86	0.56
1:n:283:ASP:CB	1:n:354:LEU:HD21	2.36	0.56
1:o:352:TYR:HA	1:o:645:GLN:HE22	1.71	0.56
1:o:619:ALA:HB3	1:o:632:PRO:HG3	1.87	0.56
1:p:694:TRP:HE1	1:s:720:TYR:HE1	1.52	0.56
1:r:319:GLN:O	1:r:675:THR:N	2.37	0.56
1:r:602:PRO:CD	1:s:481:PRO:HG3	2.35	0.56
1:s:508:TYR:HD1	1:s:517:VAL:HG22	1.70	0.56
1:w:614:GLN:HE22	1:w:725:PRO:HA	1.70	0.56
1:1:602:PRO:CD	1:2:481:PRO:HG3	2.35	0.56
1:1:619:ALA:HB3	1:1:632:PRO:HG3	1.87	0.56
1:6:619:ALA:HB3	1:6:632:PRO:HG3	1.87	0.56
1:A:352:TYR:HA	1:A:645:GLN:HE22	1.71	0.56
1:B:602:PRO:CD	1:J:481:PRO:HG3	2.35	0.56
1:D:283:ASP:CB	1:D:354:LEU:HD21	2.36	0.56
1:D:720:TYR:HE1	1:M:694:TRP:HE1	1.52	0.56
1:N:602:PRO:CD	1:P:481:PRO:HG3	2.35	0.56
1:N:614:GLN:HE22	1:N:725:PRO:HA	1.70	0.56
1:N:619:ALA:HB3	1:N:632:PRO:HG3	1.87	0.56
1:P:353:VAL:N	1:P:645:GLN:NE2	2.50	0.56
1:S:319:GLN:O	1:S:675:THR:N	2.37	0.56
1:S:602:PRO:CD	1:U:481:PRO:HG3	2.35	0.56
1:T:602:PRO:CD	1:d:481:PRO:HG3	2.35	0.56
1:V:614:GLN:HE22	1:V:725:PRO:HA	1.70	0.56
1:W:353:VAL:N	1:W:645:GLN:NE2	2.50	0.56
1:W:619:ALA:HB3	1:W:632:PRO:HG3	1.87	0.56
1:X:619:ALA:HB3	1:X:632:PRO:HG3	1.87	0.56
1:a:352:TYR:HA	1:a:645:GLN:HE22	1.71	0.56
1:c:481:PRO:HG3	1:p:602:PRO:CD	2.35	0.56
1:d:283:ASP:CB	1:d:354:LEU:HD21	2.36	0.56
1:l:352:TYR:HA	1:l:645:GLN:HE22	1.71	0.56
1:p:353:VAL:N	1:p:645:GLN:NE2	2.50	0.56
1:q:508:TYR:HD1	1:q:517:VAL:HG22	1.70	0.56
1:r:353:VAL:N	1:r:645:GLN:NE2	2.50	0.56
1:r:508:TYR:HD1	1:r:517:VAL:HG22	1.70	0.56
1:u:619:ALA:HB3	1:u:632:PRO:HG3	1.87	0.56
1:v:352:TYR:HA	1:v:645:GLN:HE22	1.71	0.56
1:2:283:ASP:CB	1:2:354:LEU:HD21	2.36	0.56
1:5:602:PRO:CD	1:6:481:PRO:HG3	2.35	0.56
1:6:353:VAL:N	1:6:645:GLN:NE2	2.50	0.56
1:D:694:TRP:HE1	1:M:720:TYR:HE1	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:283:ASP:CB	1:E:354:LEU:HD21	2.36	0.56
1:G:283:ASP:CB	1:G:354:LEU:HD21	2.36	0.56
1:I:352:TYR:HA	1:I:645:GLN:HE22	1.71	0.56
1:K:481:PRO:HG3	1:8:602:PRO:CD	2.35	0.56
1:O:352:TYR:HA	1:O:645:GLN:HE22	1.71	0.56
1:O:619:ALA:HB3	1:O:632:PRO:HG3	1.87	0.56
1:P:283:ASP:CB	1:P:354:LEU:HD21	2.36	0.56
1:S:508:TYR:HD1	1:S:517:VAL:HG22	1.70	0.56
1:T:319:GLN:N	1:T:675:THR:O	2.33	0.56
1:T:353:VAL:N	1:T:645:GLN:NE2	2.50	0.56
1:X:319:GLN:O	1:X:675:THR:N	2.37	0.56
1:Z:602:PRO:CD	1:4:481:PRO:HG3	2.35	0.56
1:Z:614:GLN:HE22	1:Z:725:PRO:HA	1.70	0.56
1:b:353:VAL:N	1:b:645:GLN:HE22	2.00	0.56
1:e:720:TYR:HE1	1:f:694:TRP:HE1	1.52	0.56
1:h:694:TRP:HE1	1:k:720:TYR:HE1	1.52	0.56
1:h:720:TYR:HE1	1:k:694:TRP:HE1	1.52	0.56
1:i:614:GLN:HE22	1:i:725:PRO:HA	1.70	0.56
1:j:720:TYR:HE1	1:w:694:TRP:HE1	1.52	0.56
1:n:614:GLN:HE22	1:n:725:PRO:HA	1.70	0.56
1:u:508:TYR:HD1	1:u:517:VAL:HG22	1.70	0.56
1:y:508:TYR:HD1	1:y:517:VAL:HG22	1.70	0.56
1:3:352:TYR:HA	1:3:645:GLN:HE22	1.71	0.56
1:C:319:GLN:HB2	1:C:675:THR:CG2	2.36	0.56
1:I:319:GLN:HB2	1:I:675:THR:CG2	2.36	0.56
1:J:508:TYR:HD1	1:J:517:VAL:HG22	1.70	0.56
1:K:319:GLN:N	1:K:675:THR:O	2.33	0.56
1:L:352:TYR:HA	1:L:645:GLN:HE22	1.71	0.56
1:M:319:GLN:O	1:M:674:SER:HA	2.06	0.56
1:N:283:ASP:CB	1:N:354:LEU:HD21	2.36	0.56
1:Q:619:ALA:HB3	1:Q:632:PRO:HG3	1.87	0.56
1:R:319:GLN:HB2	1:R:675:THR:CG2	2.36	0.56
1:R:619:ALA:HB3	1:R:632:PRO:HG3	1.87	0.56
1:T:339:THR:HG22	1:T:404:ARG:HG3	1.88	0.56
1:U:614:GLN:HE22	1:U:725:PRO:HA	1.70	0.56
1:U:720:TYR:HE1	1:V:694:TRP:HE1	1.52	0.56
1:V:319:GLN:HB2	1:V:675:THR:CG2	2.36	0.56
1:W:352:TYR:HA	1:W:645:GLN:HE22	1.71	0.56
1:d:319:GLN:HB2	1:d:675:THR:CG2	2.36	0.56
1:g:319:GLN:HB2	1:g:675:THR:CG2	2.36	0.56
1:g:352:TYR:HA	1:g:645:GLN:HE22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:319:GLN:O	1:h:674:SER:HA	2.06	0.56
1:i:283:ASP:CB	1:i:354:LEU:HD21	2.36	0.56
1:i:619:ALA:HB3	1:i:632:PRO:HG3	1.87	0.56
1:l:283:ASP:CB	1:l:354:LEU:HD21	2.36	0.56
1:l:619:ALA:HB3	1:l:632:PRO:HG3	1.87	0.56
1:m:339:THR:HG22	1:m:404:ARG:HG3	1.88	0.56
1:m:602:PRO:CD	1:n:481:PRO:HG3	2.35	0.56
1:n:319:GLN:HB2	1:n:675:THR:CG2	2.36	0.56
1:o:319:GLN:O	1:o:675:THR:N	2.37	0.56
1:p:319:GLN:HB2	1:p:675:THR:CG2	2.36	0.56
1:p:319:GLN:N	1:p:675:THR:O	2.33	0.56
1:q:319:GLN:HB2	1:q:675:THR:CG2	2.36	0.56
1:q:614:GLN:HE22	1:q:725:PRO:HA	1.70	0.56
1:q:619:ALA:HB3	1:q:632:PRO:HG3	1.87	0.56
1:s:614:GLN:HE22	1:s:725:PRO:HA	1.70	0.56
1:t:283:ASP:CB	1:t:354:LEU:HD21	2.36	0.56
1:u:319:GLN:HB2	1:u:675:THR:CG2	2.36	0.56
1:u:352:TYR:HA	1:u:645:GLN:HE22	1.71	0.56
1:v:614:GLN:HE22	1:v:725:PRO:HA	1.70	0.56
1:w:283:ASP:CB	1:w:354:LEU:HD21	2.36	0.56
1:x:602:PRO:CD	1:y:481:PRO:HG3	2.35	0.56
1:x:619:ALA:HB3	1:x:632:PRO:HG3	1.87	0.56
1:z:352:TYR:HA	1:z:645:GLN:HE22	1.71	0.56
1:1:614:GLN:HE22	1:1:725:PRO:HA	1.70	0.56
1:3:319:GLN:HB2	1:3:675:THR:CG2	2.36	0.56
1:4:319:GLN:N	1:4:675:THR:O	2.33	0.56
1:A:614:GLN:HE22	1:A:725:PRO:HA	1.70	0.55
1:B:614:GLN:HE22	1:B:725:PRO:HA	1.70	0.55
1:C:352:TYR:HA	1:C:645:GLN:HE22	1.71	0.55
1:D:319:GLN:HB2	1:D:675:THR:CG2	2.36	0.55
1:F:283:ASP:CB	1:F:354:LEU:HD21	2.36	0.55
1:F:481:PRO:HG3	1:Q:602:PRO:CD	2.35	0.55
1:G:339:THR:HG22	1:G:404:ARG:HG3	1.89	0.55
1:H:283:ASP:CB	1:H:354:LEU:HD21	2.36	0.55
1:I:508:TYR:HD1	1:I:517:VAL:HG22	1.70	0.55
1:K:339:THR:HG22	1:K:404:ARG:HG3	1.88	0.55
1:R:352:TYR:HA	1:R:645:GLN:HE22	1.71	0.55
1:R:614:GLN:HE22	1:R:725:PRO:HA	1.70	0.55
1:S:353:VAL:N	1:S:645:GLN:NE2	2.50	0.55
1:V:508:TYR:HD1	1:V:517:VAL:HG22	1.70	0.55
1:a:319:GLN:HB2	1:a:675:THR:CG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:619:ALA:HB3	1:a:632:PRO:HG3	1.87	0.55
1:b:319:GLN:HB2	1:b:675:THR:CG2	2.36	0.55
1:b:694:TRP:HE1	1:c:720:TYR:HE1	1.52	0.55
1:c:352:TYR:HA	1:c:645:GLN:HE22	1.71	0.55
1:d:614:GLN:HE22	1:d:725:PRO:HA	1.70	0.55
1:g:720:TYR:HE1	1:z:694:TRP:HE1	1.52	0.55
1:j:283:ASP:CB	1:j:354:LEU:HD21	2.36	0.55
1:j:353:VAL:N	1:j:645:GLN:NE2	2.50	0.55
1:k:319:GLN:HB2	1:k:675:THR:CG2	2.36	0.55
1:q:352:TYR:HA	1:q:645:GLN:HE22	1.71	0.55
1:t:319:GLN:HB2	1:t:675:THR:CG2	2.36	0.55
1:t:339:THR:HG22	1:t:404:ARG:HG3	1.89	0.55
1:u:353:VAL:N	1:u:645:GLN:HE22	2.00	0.55
1:x:508:TYR:HD1	1:x:517:VAL:HG22	1.70	0.55
1:2:353:VAL:N	1:2:645:GLN:NE2	2.50	0.55
1:3:319:GLN:N	1:3:675:THR:O	2.33	0.55
1:4:339:THR:HG22	1:4:404:ARG:HG3	1.88	0.55
1:5:283:ASP:CB	1:5:354:LEU:HD21	2.36	0.55
1:B:508:TYR:HD1	1:B:517:VAL:HG22	1.70	0.55
1:C:720:TYR:HE1	1:L:694:TRP:HE1	1.52	0.55
1:D:481:PRO:HB2	1:P:601:LEU:CD2	2.37	0.55
1:D:619:ALA:HB3	1:D:632:PRO:HG3	1.87	0.55
1:G:319:GLN:HB2	1:G:675:THR:CG2	2.36	0.55
1:G:614:GLN:HE22	1:G:725:PRO:HA	1.70	0.55
1:K:319:GLN:O	1:K:674:SER:HA	2.07	0.55
1:M:619:ALA:HB3	1:M:632:PRO:HG3	1.87	0.55
1:O:481:PRO:HB2	1:n:601:LEU:CD2	2.37	0.55
1:S:601:LEU:CD2	1:U:481:PRO:HB2	2.37	0.55
1:S:614:GLN:HE22	1:S:725:PRO:HA	1.70	0.55
1:T:252:TYR:OH	1:T:372:VAL:O	2.24	0.55
1:U:339:THR:HG22	1:U:404:ARG:HG3	1.89	0.55
1:a:602:PRO:CD	1:8:481:PRO:HG3	2.35	0.55
1:d:601:LEU:CD2	1:l:481:PRO:HB2	2.37	0.55
1:d:619:ALA:HB3	1:d:632:PRO:HG3	1.87	0.55
1:f:283:ASP:CB	1:f:354:LEU:HD21	2.36	0.55
1:f:319:GLN:HB2	1:f:675:THR:CG2	2.36	0.55
1:f:481:PRO:HG3	1:g:602:PRO:CD	2.35	0.55
1:h:619:ALA:HB3	1:h:632:PRO:HG3	1.87	0.55
1:j:601:LEU:CD2	1:k:481:PRO:HB2	2.37	0.55
1:k:619:ALA:HB3	1:k:632:PRO:HG3	1.87	0.55
1:m:252:TYR:OH	1:m:372:VAL:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:353:VAL:N	1:m:645:GLN:NE2	2.50	0.55
1:o:602:PRO:CD	1:p:481:PRO:HG3	2.35	0.55
1:p:283:ASP:CB	1:p:354:LEU:HD21	2.36	0.55
1:p:508:TYR:HD1	1:p:517:VAL:HG22	1.70	0.55
1:r:601:LEU:CD2	1:s:481:PRO:HB2	2.37	0.55
1:r:614:GLN:HE22	1:r:725:PRO:HA	1.70	0.55
1:s:339:THR:HG22	1:s:404:ARG:HG3	1.89	0.55
1:w:481:PRO:HG3	1:y:602:PRO:CD	2.35	0.55
1:y:283:ASP:CB	1:y:354:LEU:HD21	2.36	0.55
1:1:283:ASP:CB	1:1:354:LEU:HD21	2.36	0.55
1:2:508:TYR:HD1	1:2:517:VAL:HG22	1.70	0.55
1:3:339:THR:HG22	1:3:404:ARG:HG3	1.89	0.55
1:3:508:TYR:HD1	1:3:517:VAL:HG22	1.70	0.55
1:3:619:ALA:HB3	1:3:632:PRO:HG3	1.87	0.55
1:4:319:GLN:O	1:4:674:SER:HA	2.07	0.55
1:6:352:TYR:HA	1:6:645:GLN:HE22	1.71	0.55
1:8:614:GLN:HE22	1:8:725:PRO:HA	1.70	0.55
1:B:283:ASP:CB	1:B:354:LEU:HD21	2.36	0.55
1:C:602:PRO:CD	1:b:481:PRO:HG3	2.35	0.55
1:D:339:THR:HG22	1:D:404:ARG:HG3	1.89	0.55
1:E:481:PRO:HG3	1:F:602:PRO:CD	2.35	0.55
1:J:353:VAL:N	1:J:645:GLN:NE2	2.50	0.55
1:J:694:TRP:HE1	1:K:720:TYR:HE1	1.52	0.55
1:M:353:VAL:N	1:M:645:GLN:HE22	2.00	0.55
1:N:339:THR:HG22	1:N:404:ARG:HG3	1.89	0.55
1:P:319:GLN:HB2	1:P:675:THR:CG2	2.36	0.55
1:P:508:TYR:HD1	1:P:517:VAL:HG22	1.70	0.55
1:Q:508:TYR:HD1	1:Q:517:VAL:HG22	1.70	0.55
1:V:283:ASP:CB	1:V:354:LEU:HD21	2.36	0.55
1:V:319:GLN:N	1:V:675:THR:O	2.33	0.55
1:V:481:PRO:HG3	1:X:602:PRO:CD	2.35	0.55
1:W:319:GLN:HB2	1:W:675:THR:CG2	2.36	0.55
1:X:481:PRO:HG3	1:e:602:PRO:CD	2.35	0.55
1:X:481:PRO:HB2	1:e:601:LEU:CD2	2.37	0.55
1:Z:481:PRO:HG3	1:3:602:PRO:CD	2.35	0.55
1:a:339:THR:HG22	1:a:404:ARG:HG3	1.89	0.55
1:c:601:LEU:CD2	1:o:481:PRO:HB2	2.37	0.55
1:c:697:GLU:OE1	1:c:731:LEU:HD23	2.07	0.55
1:e:319:GLN:O	1:e:674:SER:HA	2.07	0.55
1:e:352:TYR:HA	1:e:645:GLN:HE22	1.71	0.55
1:e:697:GLU:OE1	1:e:731:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:697:GLU:OE1	1:f:731:LEU:HD23	2.07	0.55
1:i:339:THR:HG22	1:i:404:ARG:HG3	1.89	0.55
1:j:319:GLN:HB2	1:j:675:THR:CG2	2.36	0.55
1:j:508:TYR:HD1	1:j:517:VAL:HG22	1.70	0.55
1:k:339:THR:HG22	1:k:404:ARG:HG3	1.89	0.55
1:l:697:GLU:OE1	1:l:731:LEU:HD23	2.07	0.55
1:n:619:ALA:HB3	1:n:632:PRO:HG3	1.87	0.55
1:s:352:TYR:HA	1:s:645:GLN:HE22	1.71	0.55
1:t:614:GLN:HE22	1:t:725:PRO:HA	1.70	0.55
1:z:252:TYR:OH	1:z:372:VAL:O	2.24	0.55
1:z:319:GLN:HB2	1:z:675:THR:CG2	2.36	0.55
1:6:319:GLN:HB2	1:6:675:THR:CG2	2.36	0.55
1:A:339:THR:HG22	1:A:404:ARG:HG3	1.89	0.55
1:C:252:TYR:OH	1:C:372:VAL:O	2.24	0.55
1:C:319:GLN:O	1:C:674:SER:HA	2.07	0.55
1:E:319:GLN:O	1:E:674:SER:HA	2.06	0.55
1:I:339:THR:HG22	1:I:404:ARG:HG3	1.88	0.55
1:I:353:VAL:N	1:I:645:GLN:HE22	2.00	0.55
1:J:339:THR:HG22	1:J:404:ARG:HG3	1.89	0.55
1:J:697:GLU:OE1	1:J:731:LEU:HD23	2.07	0.55
1:K:319:GLN:HB2	1:K:675:THR:CG2	2.36	0.55
1:K:352:TYR:HA	1:K:645:GLN:HE22	1.71	0.55
1:L:252:TYR:OH	1:L:372:VAL:O	2.24	0.55
1:L:319:GLN:HB2	1:L:675:THR:CG2	2.36	0.55
1:N:697:GLU:OE1	1:N:731:LEU:HD23	2.07	0.55
1:O:697:GLU:OE1	1:O:731:LEU:HD23	2.07	0.55
1:R:602:PRO:CD	1:S:481:PRO:HG3	2.35	0.55
1:U:352:TYR:HA	1:U:645:GLN:HE22	1.71	0.55
1:W:508:TYR:HD1	1:W:517:VAL:HG22	1.70	0.55
1:X:339:THR:HG22	1:X:404:ARG:HG3	1.89	0.55
1:Z:508:TYR:HD1	1:Z:517:VAL:HG22	1.70	0.55
1:a:319:GLN:O	1:a:674:SER:HA	2.07	0.55
1:a:319:GLN:N	1:a:675:THR:O	2.33	0.55
1:a:508:TYR:HD1	1:a:517:VAL:HG22	1.70	0.55
1:a:697:GLU:OE1	1:a:731:LEU:HD23	2.07	0.55
1:b:283:ASP:CB	1:b:354:LEU:HD21	2.36	0.55
1:b:339:THR:HG22	1:b:404:ARG:HG3	1.89	0.55
1:b:697:GLU:OE1	1:b:731:LEU:HD23	2.07	0.55
1:c:319:GLN:O	1:c:674:SER:HA	2.07	0.55
1:h:283:ASP:CB	1:h:354:LEU:HD21	2.36	0.55
1:i:697:GLU:OE1	1:i:731:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:720:TYR:HE1	1:l:694:TRP:HE1	1.52	0.55
1:j:319:GLN:O	1:j:674:SER:HA	2.07	0.55
1:j:352:TYR:HA	1:j:645:GLN:HE22	1.71	0.55
1:j:697:GLU:OE1	1:j:731:LEU:HD23	2.07	0.55
1:m:720:TYR:HE1	1:r:694:TRP:HE1	1.52	0.55
1:o:339:THR:HG22	1:o:404:ARG:HG3	1.89	0.55
1:q:602:PRO:CD	1:r:481:PRO:HG3	2.35	0.55
1:q:694:TRP:HE1	1:x:720:TYR:HE1	1.52	0.55
1:u:339:THR:HG22	1:u:404:ARG:HG3	1.88	0.55
1:v:339:THR:HG22	1:v:404:ARG:HG3	1.89	0.55
1:v:697:GLU:OE1	1:v:731:LEU:HD23	2.07	0.55
1:w:319:GLN:O	1:w:674:SER:HA	2.06	0.55
1:1:508:TYR:HD1	1:1:517:VAL:HG22	1.70	0.55
1:2:339:THR:HG22	1:2:404:ARG:HG3	1.89	0.55
1:2:694:TRP:HE1	1:4:720:TYR:HE1	1.52	0.55
1:3:319:GLN:O	1:3:674:SER:HA	2.07	0.55
1:3:697:GLU:OE1	1:3:731:LEU:HD23	2.07	0.55
1:4:319:GLN:HB2	1:4:675:THR:CG2	2.36	0.55
1:6:319:GLN:O	1:6:675:THR:N	2.37	0.55
1:A:697:GLU:OE1	1:A:731:LEU:HD23	2.07	0.55
1:B:697:GLU:OE1	1:B:731:LEU:HD23	2.07	0.55
1:K:481:PRO:HB2	1:8:601:LEU:CD2	2.37	0.55
1:M:283:ASP:CB	1:M:354:LEU:HD21	2.36	0.55
1:M:313:PHE:CE2	1:M:646:ILE:HD13	2.42	0.55
1:N:319:GLN:O	1:N:675:THR:N	2.37	0.55
1:P:319:GLN:O	1:P:674:SER:HA	2.07	0.55
1:P:697:GLU:OE1	1:P:731:LEU:HD23	2.07	0.55
1:R:481:PRO:HB2	1:U:601:LEU:CD2	2.37	0.55
1:V:601:LEU:CD2	1:e:481:PRO:HB2	2.37	0.55
1:W:602:PRO:CD	1:Y:481:PRO:HG3	2.35	0.55
1:Z:353:VAL:N	1:Z:645:GLN:NE2	2.50	0.55
1:Z:601:LEU:CD2	1:4:481:PRO:HB2	2.37	0.55
1:c:481:PRO:HB2	1:p:601:LEU:CD2	2.37	0.55
1:c:602:PRO:CD	1:o:481:PRO:HG3	2.35	0.55
1:d:319:GLN:O	1:d:674:SER:HA	2.07	0.55
1:f:339:THR:HG22	1:f:404:ARG:HG3	1.89	0.55
1:f:353:VAL:N	1:f:645:GLN:NE2	2.50	0.55
1:g:252:TYR:OH	1:g:372:VAL:O	2.24	0.55
1:g:319:GLN:O	1:g:674:SER:HA	2.07	0.55
1:h:353:VAL:N	1:h:645:GLN:HE22	2.00	0.55
1:k:353:VAL:N	1:k:645:GLN:HE22	2.00	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:319:GLN:O	1:t:674:SER:HA	2.06	0.55
1:t:352:TYR:HA	1:t:645:GLN:HE22	1.71	0.55
1:1:697:GLU:OE1	1:1:731:LEU:HD23	2.07	0.55
1:2:697:GLU:OE1	1:2:731:LEU:HD23	2.07	0.55
1:4:352:TYR:HA	1:4:645:GLN:HE22	1.71	0.55
1:6:508:TYR:HD1	1:6:517:VAL:HG22	1.70	0.55
1:8:339:THR:HG22	1:8:404:ARG:HG3	1.89	0.55
1:C:339:THR:HG22	1:C:404:ARG:HG3	1.88	0.55
1:C:619:ALA:HB3	1:C:632:PRO:HG3	1.87	0.55
1:F:319:GLN:HB2	1:F:675:THR:CG2	2.36	0.55
1:G:319:GLN:O	1:G:674:SER:HA	2.06	0.55
1:G:352:TYR:HA	1:G:645:GLN:HE22	1.71	0.55
1:H:471:ARG:HG2	1:W:270:ASN:HD21	1.72	0.55
1:J:601:LEU:CD2	1:L:481:PRO:HB2	2.37	0.55
1:K:270:ASN:HD21	1:8:471:ARG:HG2	1.72	0.55
1:L:619:ALA:HB3	1:L:632:PRO:HG3	1.87	0.55
1:N:720:TYR:HE1	1:O:694:TRP:HE1	1.52	0.55
1:O:283:ASP:CB	1:O:354:LEU:HD21	2.36	0.55
1:O:319:GLN:HB2	1:O:675:THR:CG2	2.36	0.55
1:O:481:PRO:HG3	1:n:602:PRO:CD	2.35	0.55
1:P:352:TYR:HA	1:P:645:GLN:HE22	1.71	0.55
1:T:601:LEU:CD2	1:d:481:PRO:HB2	2.37	0.55
1:W:319:GLN:O	1:W:674:SER:HA	2.07	0.55
1:W:339:THR:HG22	1:W:404:ARG:HG3	1.89	0.55
1:Y:283:ASP:CB	1:Y:354:LEU:HD21	2.36	0.55
1:Z:339:THR:HG22	1:Z:404:ARG:HG3	1.89	0.55
1:d:602:PRO:CD	1:l:481:PRO:HG3	2.35	0.55
1:g:697:GLU:OE1	1:g:731:LEU:HD23	2.07	0.55
1:h:313:PHE:CE2	1:h:646:ILE:HD13	2.42	0.55
1:i:319:GLN:HB2	1:i:675:THR:CG2	2.36	0.55
1:i:319:GLN:O	1:i:675:THR:N	2.37	0.55
1:n:319:GLN:O	1:n:674:SER:HA	2.07	0.55
1:q:481:PRO:HB2	1:s:601:LEU:CD2	2.37	0.55
1:y:319:GLN:HB2	1:y:675:THR:CG2	2.36	0.55
1:y:319:GLN:O	1:y:674:SER:HA	2.07	0.55
1:5:471:ARG:HG2	1:6:270:ASN:HD21	1.72	0.55
1:5:481:PRO:HB2	1:7:601:LEU:CD2	2.37	0.55
1:6:319:GLN:O	1:6:674:SER:HA	2.07	0.55
1:6:339:THR:HG22	1:6:404:ARG:HG3	1.89	0.55
1:6:602:PRO:CD	1:7:481:PRO:HG3	2.35	0.55
1:7:619:ALA:HB3	1:7:632:PRO:HG3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:353:VAL:N	1:8:645:GLN:NE2	2.50	0.55
1:8:508:TYR:HD1	1:8:517:VAL:HG22	1.70	0.55
1:8:619:ALA:HB3	1:8:632:PRO:HG3	1.87	0.55
1:A:471:ARG:HG2	1:G:270:ASN:HD21	1.72	0.55
1:B:319:GLN:HB2	1:B:675:THR:CG2	2.36	0.55
1:C:697:GLU:OE1	1:C:731:LEU:HD23	2.07	0.55
1:D:601:LEU:CD2	1:N:481:PRO:HB2	2.37	0.55
1:E:313:PHE:CE2	1:E:646:ILE:HD13	2.42	0.55
1:E:319:GLN:HB2	1:E:675:THR:CG2	2.36	0.55
1:E:469:ASP:OD1	1:E:469:ASP:N	2.39	0.55
1:F:319:GLN:O	1:F:674:SER:HA	2.07	0.55
1:H:481:PRO:HB2	1:Y:601:LEU:CD2	2.37	0.55
1:K:601:LEU:CD2	1:a:481:PRO:HB2	2.37	0.55
1:K:697:GLU:OE1	1:K:731:LEU:HD23	2.07	0.55
1:N:319:GLN:HB2	1:N:675:THR:CG2	2.36	0.55
1:Q:720:TYR:HE1	1:R:694:TRP:HE1	1.52	0.55
1:S:694:TRP:HE1	1:T:720:TYR:HE1	1.52	0.55
1:T:471:ARG:HG2	1:d:270:ASN:HD21	1.72	0.55
1:U:697:GLU:OE1	1:U:731:LEU:HD23	2.07	0.55
1:V:352:TYR:HA	1:V:645:GLN:HE22	1.71	0.55
1:W:319:GLN:O	1:W:675:THR:N	2.37	0.55
1:X:270:ASN:HD21	1:e:471:ARG:HG2	1.72	0.55
1:Z:319:GLN:HB2	1:Z:675:THR:CG2	2.36	0.55
1:Z:471:ARG:HG2	1:4:270:ASN:HD21	1.72	0.55
1:b:319:GLN:N	1:b:675:THR:O	2.33	0.55
1:b:319:GLN:O	1:b:674:SER:HA	2.06	0.55
1:f:319:GLN:N	1:f:675:THR:O	2.33	0.55
1:g:339:THR:HG22	1:g:404:ARG:HG3	1.88	0.55
1:g:619:ALA:HB3	1:g:632:PRO:HG3	1.87	0.55
1:h:352:TYR:HA	1:h:645:GLN:HE22	1.71	0.55
1:i:481:PRO:HB2	1:k:601:LEU:CD2	2.37	0.55
1:l:319:GLN:HB2	1:l:675:THR:CG2	2.36	0.55
1:m:471:ARG:HG2	1:n:270:ASN:HD21	1.72	0.55
1:n:339:THR:HG22	1:n:404:ARG:HG3	1.89	0.55
1:q:313:PHE:CE2	1:q:646:ILE:HD13	2.42	0.55
1:q:339:THR:HG22	1:q:404:ARG:HG3	1.89	0.55
1:s:697:GLU:OE1	1:s:731:LEU:HD23	2.07	0.55
1:t:270:ASN:HD21	1:v:471:ARG:HG2	1.72	0.55
1:v:469:ASP:OD1	1:v:469:ASP:N	2.39	0.55
1:v:508:TYR:HD1	1:v:517:VAL:HG22	1.70	0.55
1:w:319:GLN:HB2	1:w:675:THR:CG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:469:ASP:OD1	1:w:469:ASP:N	2.39	0.55
1:z:319:GLN:O	1:z:674:SER:HA	2.07	0.55
1:z:481:PRO:HB2	1:2:601:LEU:CD2	2.37	0.55
1:z:619:ALA:HB3	1:z:632:PRO:HG3	1.87	0.55
1:3:481:PRO:HB2	1:4:601:LEU:CD2	2.37	0.55
1:4:697:GLU:OE1	1:4:731:LEU:HD23	2.07	0.55
1:7:283:ASP:CB	1:7:354:LEU:HD21	2.36	0.55
1:D:353:VAL:N	1:D:645:GLN:HE22	2.00	0.55
1:E:270:ASN:HD21	1:F:471:ARG:HG2	1.72	0.55
1:E:697:GLU:OE1	1:E:731:LEU:HD23	2.07	0.55
1:E:720:TYR:HE1	1:P:694:TRP:HE1	1.52	0.55
1:F:270:ASN:HD21	1:Q:471:ARG:HG2	1.72	0.55
1:F:481:PRO:HB2	1:Q:601:LEU:CD2	2.37	0.55
1:H:697:GLU:OE1	1:H:731:LEU:HD23	2.07	0.55
1:L:319:GLN:O	1:L:674:SER:HA	2.07	0.55
1:M:352:TYR:HA	1:M:645:GLN:HE22	1.71	0.55
1:O:353:VAL:N	1:O:645:GLN:HE22	2.00	0.55
1:Q:352:TYR:HA	1:Q:645:GLN:HE22	1.71	0.55
1:R:313:PHE:CE2	1:R:646:ILE:HD13	2.42	0.55
1:R:471:ARG:HG2	1:S:270:ASN:HD21	1.72	0.55
1:U:313:PHE:CE2	1:U:646:ILE:HD13	2.42	0.55
1:V:313:PHE:CE2	1:V:646:ILE:HD13	2.42	0.55
1:Y:319:GLN:O	1:Y:674:SER:HA	2.07	0.55
1:Y:619:ALA:HB3	1:Y:632:PRO:HG3	1.87	0.55
1:Z:619:ALA:HB3	1:Z:632:PRO:HG3	1.87	0.55
1:c:471:ARG:HG2	1:o:270:ASN:HD21	1.72	0.55
1:d:339:THR:HG22	1:d:404:ARG:HG3	1.89	0.55
1:f:319:GLN:O	1:f:674:SER:HA	2.07	0.55
1:i:353:VAL:N	1:i:645:GLN:NE2	2.50	0.55
1:l:353:VAL:N	1:l:645:GLN:HE22	2.00	0.55
1:p:313:PHE:CE2	1:p:646:ILE:HD13	2.42	0.55
1:q:471:ARG:HG2	1:r:270:ASN:HD21	1.72	0.55
1:s:313:PHE:CE2	1:s:646:ILE:HD13	2.42	0.55
1:u:601:LEU:CD2	1:v:481:PRO:HB2	2.37	0.55
1:w:270:ASN:HD21	1:y:471:ARG:HG2	1.72	0.55
1:w:313:PHE:CE2	1:w:646:ILE:HD13	2.42	0.55
1:x:313:PHE:CE2	1:x:646:ILE:HD13	2.42	0.55
1:z:697:GLU:OE1	1:z:731:LEU:HD23	2.07	0.55
1:1:319:GLN:HB2	1:1:675:THR:CG2	2.36	0.55
1:1:601:LEU:CD2	1:2:481:PRO:HB2	2.37	0.55
1:2:353:VAL:N	1:2:645:GLN:HE22	2.00	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:319:GLN:HB2	1:8:675:THR:CG2	2.36	0.55
1:A:469:ASP:OD1	1:A:469:ASP:N	2.40	0.55
1:A:481:PRO:HB2	1:I:601:LEU:CD2	2.37	0.55
1:A:508:TYR:HD1	1:A:517:VAL:HG22	1.70	0.55
1:B:319:GLN:O	1:B:674:SER:HA	2.07	0.55
1:D:319:GLN:O	1:D:674:SER:HA	2.07	0.55
1:E:471:ARG:HG2	1:Q:270:ASN:HD21	1.72	0.55
1:I:319:GLN:O	1:I:674:SER:HA	2.07	0.55
1:M:319:GLN:HB2	1:M:675:THR:CG2	2.36	0.55
1:Q:313:PHE:CE2	1:Q:646:ILE:HD13	2.42	0.55
1:R:339:THR:HG22	1:R:404:ARG:HG3	1.89	0.55
1:T:319:GLN:HB2	1:T:675:THR:CG2	2.36	0.55
1:T:697:GLU:OE1	1:T:731:LEU:HD23	2.07	0.55
1:W:601:LEU:CD2	1:Y:481:PRO:HB2	2.37	0.55
1:b:353:VAL:N	1:b:645:GLN:NE2	2.50	0.55
1:c:319:GLN:HB2	1:c:675:THR:CG2	2.36	0.55
1:c:469:ASP:OD1	1:c:469:ASP:N	2.39	0.55
1:j:694:TRP:HE1	1:w:720:TYR:HE1	1.52	0.55
1:m:319:GLN:HB2	1:m:675:THR:CG2	2.36	0.55
1:o:471:ARG:HG2	1:p:270:ASN:HD21	1.72	0.55
1:p:352:TYR:HA	1:p:645:GLN:HE22	1.71	0.55
1:r:352:TYR:HA	1:r:645:GLN:HE22	1.71	0.55
1:t:601:LEU:CD2	1:u:481:PRO:HB2	2.37	0.55
1:t:697:GLU:OE1	1:t:731:LEU:HD23	2.07	0.55
1:w:697:GLU:OE1	1:w:731:LEU:HD23	2.07	0.55
1:x:471:ARG:HG2	1:y:270:ASN:HD21	1.72	0.55
1:x:601:LEU:CD2	1:y:481:PRO:HB2	2.37	0.55
1:3:283:ASP:CB	1:3:354:LEU:HD21	2.36	0.55
1:4:508:TYR:HD1	1:4:517:VAL:HG22	1.70	0.55
1:5:319:GLN:O	1:5:675:THR:N	2.37	0.55
1:5:339:THR:HG22	1:5:404:ARG:HG3	1.89	0.55
1:5:697:GLU:OE1	1:5:731:LEU:HD23	2.07	0.55
1:7:319:GLN:O	1:7:674:SER:HA	2.07	0.55
1:G:601:LEU:CD2	1:I:481:PRO:HB2	2.37	0.55
1:H:339:THR:HG22	1:H:404:ARG:HG3	1.89	0.55
1:L:697:GLU:OE1	1:L:731:LEU:HD23	2.07	0.55
1:N:471:ARG:HG2	1:P:270:ASN:HD21	1.72	0.55
1:O:252:TYR:OH	1:O:372:VAL:O	2.25	0.55
1:S:313:PHE:CE2	1:S:646:ILE:HD13	2.42	0.55
1:V:270:ASN:HD21	1:X:471:ARG:HG2	1.72	0.55
1:a:283:ASP:CB	1:a:354:LEU:HD21	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:319:GLN:HB2	1:e:675:THR:CG2	2.36	0.55
1:f:313:PHE:CE2	1:f:646:ILE:HD13	2.42	0.55
1:h:319:GLN:HB2	1:h:675:THR:CG2	2.36	0.55
1:i:319:GLN:O	1:i:674:SER:HA	2.07	0.55
1:m:319:GLN:O	1:m:674:SER:HA	2.07	0.55
1:m:697:GLU:OE1	1:m:731:LEU:HD23	2.07	0.55
1:q:270:ASN:HD21	1:s:471:ARG:HG2	1.72	0.55
1:s:319:GLN:HB2	1:s:675:THR:CG2	2.36	0.55
1:u:319:GLN:O	1:u:674:SER:HA	2.07	0.55
1:w:339:THR:HG22	1:w:404:ARG:HG3	1.89	0.55
1:w:471:ARG:HG2	1:x:270:ASN:HD21	1.72	0.55
1:x:352:TYR:HA	1:x:645:GLN:HE22	1.71	0.55
1:4:313:PHE:CE2	1:4:646:ILE:HD13	2.42	0.55
1:6:601:LEU:CD2	1:7:481:PRO:HB2	2.37	0.55
1:A:319:GLN:HB2	1:A:675:THR:CG2	2.36	0.54
1:E:339:THR:HG22	1:E:404:ARG:HG3	1.89	0.54
1:G:697:GLU:OE1	1:G:731:LEU:HD23	2.07	0.54
1:K:313:PHE:CE2	1:K:646:ILE:HD13	2.42	0.54
1:N:319:GLN:O	1:N:674:SER:HA	2.07	0.54
1:N:353:VAL:N	1:N:645:GLN:NE2	2.50	0.54
1:O:471:ARG:HG2	1:m:270:ASN:HD21	1.72	0.54
1:R:270:ASN:HD21	1:U:471:ARG:HG2	1.72	0.54
1:S:352:TYR:HA	1:S:645:GLN:HE22	1.71	0.54
1:T:270:ASN:HD21	1:l:471:ARG:HG2	1.72	0.54
1:T:319:GLN:O	1:T:674:SER:HA	2.07	0.54
1:b:352:TYR:HA	1:b:645:GLN:HE22	1.71	0.54
1:d:313:PHE:CE2	1:d:646:ILE:HD13	2.42	0.54
1:e:469:ASP:OD1	1:e:469:ASP:N	2.39	0.54
1:i:471:ARG:HG2	1:j:270:ASN:HD21	1.72	0.54
1:j:313:PHE:CE2	1:j:646:ILE:HD13	2.42	0.54
1:k:319:GLN:O	1:k:674:SER:HA	2.07	0.54
1:q:601:LEU:CD2	1:r:481:PRO:HB2	2.37	0.54
1:r:313:PHE:CE2	1:r:646:ILE:HD13	2.42	0.54
1:r:319:GLN:HB2	1:r:675:THR:CG2	2.36	0.54
1:y:353:VAL:N	1:y:645:GLN:HE22	2.00	0.54
1:z:601:LEU:CD2	1:1:481:PRO:HB2	2.37	0.54
1:1:319:GLN:O	1:1:674:SER:HA	2.07	0.54
1:2:252:TYR:OH	1:2:372:VAL:O	2.24	0.54
1:3:319:GLN:O	1:3:675:THR:N	2.37	0.54
1:4:283:ASP:CB	1:4:354:LEU:HD21	2.36	0.54
1:8:319:GLN:O	1:8:674:SER:HA	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:PRO:HB2	1:L:601:LEU:CD2	2.37	0.54
1:D:270:ASN:HD21	1:P:471:ARG:HG2	1.72	0.54
1:F:353:VAL:N	1:F:645:GLN:HE22	2.00	0.54
1:G:508:TYR:HD1	1:G:517:VAL:HG22	1.70	0.54
1:H:319:GLN:O	1:H:675:THR:N	2.37	0.54
1:J:353:VAL:N	1:J:645:GLN:HE22	2.00	0.54
1:K:283:ASP:CB	1:K:354:LEU:HD21	2.36	0.54
1:K:508:TYR:HD1	1:K:517:VAL:HG22	1.70	0.54
1:L:313:PHE:CE2	1:L:646:ILE:HD13	2.42	0.54
1:O:339:THR:HG22	1:O:404:ARG:HG3	1.89	0.54
1:P:313:PHE:CE2	1:P:646:ILE:HD13	2.42	0.54
1:R:597:THR:O	1:R:597:THR:CG2	2.56	0.54
1:R:601:LEU:CD2	1:S:481:PRO:HB2	2.37	0.54
1:S:319:GLN:HB2	1:S:675:THR:CG2	2.36	0.54
1:U:319:GLN:HB2	1:U:675:THR:CG2	2.36	0.54
1:Z:319:GLN:O	1:Z:674:SER:HA	2.06	0.54
1:b:313:PHE:CE2	1:b:646:ILE:HD13	2.42	0.54
1:l:252:TYR:OH	1:l:372:VAL:O	2.25	0.54
1:l:339:THR:HG22	1:l:404:ARG:HG3	1.89	0.54
1:n:313:PHE:CE2	1:n:646:ILE:HD13	2.42	0.54
1:p:319:GLN:O	1:p:674:SER:HA	2.07	0.54
1:v:319:GLN:HB2	1:v:675:THR:CG2	2.36	0.54
1:y:697:GLU:OE1	1:y:731:LEU:HD23	2.07	0.54
1:z:313:PHE:CE2	1:z:646:ILE:HD13	2.42	0.54
1:z:339:THR:HG22	1:z:404:ARG:HG3	1.89	0.54
1:D:471:ARG:HG2	1:N:270:ASN:HD21	1.72	0.54
1:F:697:GLU:OE1	1:F:731:LEU:HD23	2.07	0.54
1:G:471:ARG:HG2	1:I:270:ASN:HD21	1.72	0.54
1:H:601:LEU:CD2	1:W:481:PRO:HB2	2.37	0.54
1:I:313:PHE:CE2	1:I:646:ILE:HD13	2.42	0.54
1:J:252:TYR:OH	1:J:372:VAL:O	2.24	0.54
1:J:319:GLN:HB2	1:J:675:THR:CG2	2.36	0.54
1:L:339:THR:HG22	1:L:404:ARG:HG3	1.89	0.54
1:N:601:LEU:CD2	1:P:481:PRO:HB2	2.37	0.54
1:O:319:GLN:O	1:O:674:SER:HA	2.06	0.54
1:Q:597:THR:O	1:Q:597:THR:CG2	2.56	0.54
1:X:319:GLN:HB2	1:X:675:THR:CG2	2.36	0.54
1:X:697:GLU:OE1	1:X:731:LEU:HD23	2.07	0.54
1:Y:319:GLN:O	1:Y:675:THR:N	2.37	0.54
1:f:352:TYR:HA	1:f:645:GLN:HE22	1.71	0.54
1:i:597:THR:O	1:i:597:THR:CG2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:471:ARG:HG2	1:k:270:ASN:HD21	1.72	0.54
1:o:319:GLN:HB2	1:o:675:THR:CG2	2.36	0.54
1:q:597:THR:O	1:q:597:THR:CG2	2.56	0.54
1:t:471:ARG:HG2	1:u:270:ASN:HD21	1.72	0.54
1:u:313:PHE:CE2	1:u:646:ILE:HD13	2.42	0.54
1:x:597:THR:O	1:x:597:THR:CG2	2.56	0.54
1:5:270:ASN:HD21	1:7:471:ARG:HG2	1.72	0.54
1:5:601:LEU:CD2	1:6:481:PRO:HB2	2.37	0.54
1:7:319:GLN:O	1:7:675:THR:N	2.37	0.54
1:C:597:THR:O	1:C:597:THR:CG2	2.56	0.54
1:E:601:LEU:CD2	1:Q:481:PRO:HB2	2.37	0.54
1:H:270:ASN:HD21	1:Y:471:ARG:HG2	1.72	0.54
1:J:471:ARG:HG2	1:L:270:ASN:HD21	1.72	0.54
1:K:597:THR:O	1:K:597:THR:CG2	2.56	0.54
1:N:597:THR:O	1:N:597:THR:CG2	2.56	0.54
1:Q:697:GLU:OE1	1:Q:731:LEU:HD23	2.07	0.54
1:R:319:GLN:O	1:R:674:SER:HA	2.07	0.54
1:S:471:ARG:HG2	1:U:270:ASN:HD21	1.72	0.54
1:T:353:VAL:N	1:T:645:GLN:HE22	2.00	0.54
1:U:597:THR:O	1:U:597:THR:CG2	2.56	0.54
1:V:319:GLN:O	1:V:674:SER:HA	2.07	0.54
1:Z:313:PHE:CE2	1:Z:646:ILE:HD13	2.42	0.54
1:a:319:GLN:O	1:a:675:THR:N	2.37	0.54
1:e:313:PHE:CE2	1:e:646:ILE:HD13	2.42	0.54
1:i:601:LEU:CD2	1:j:481:PRO:HB2	2.37	0.54
1:k:313:PHE:CE2	1:k:646:ILE:HD13	2.42	0.54
1:l:319:GLN:O	1:l:674:SER:HA	2.06	0.54
1:m:601:LEU:CD2	1:n:481:PRO:HB2	2.37	0.54
1:o:697:GLU:OE1	1:o:731:LEU:HD23	2.07	0.54
1:p:353:VAL:N	1:p:645:GLN:HE22	2.00	0.54
1:s:597:THR:O	1:s:597:THR:CG2	2.56	0.54
1:t:508:TYR:HD1	1:t:517:VAL:HG22	1.70	0.54
1:y:469:ASP:OD1	1:y:469:ASP:N	2.39	0.54
1:z:270:ASN:HD21	1:2:471:ARG:HG2	1.72	0.54
1:1:471:ARG:HG2	1:2:270:ASN:HD21	1.72	0.54
1:2:319:GLN:HB2	1:2:675:THR:CG2	2.36	0.54
1:3:313:PHE:CE2	1:3:646:ILE:HD13	2.42	0.54
1:8:313:PHE:CE2	1:8:646:ILE:HD13	2.42	0.54
1:B:471:ARG:HG2	1:J:270:ASN:HD21	1.72	0.54
1:B:601:LEU:CD2	1:J:481:PRO:HB2	2.37	0.54
1:C:270:ASN:HD21	1:M:471:ARG:HG2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:481:PRO:HB2	1:M:601:LEU:CD2	2.37	0.54
1:C:601:LEU:CD2	1:b:481:PRO:HB2	2.37	0.54
1:D:313:PHE:CE2	1:D:646:ILE:HD13	2.42	0.54
1:J:313:PHE:CE2	1:J:646:ILE:HD13	2.42	0.54
1:O:597:THR:O	1:O:597:THR:CG2	2.56	0.54
1:W:313:PHE:CE2	1:W:646:ILE:HD13	2.42	0.54
1:W:471:ARG:HG2	1:Y:270:ASN:HD21	1.72	0.54
1:a:313:PHE:CE2	1:a:646:ILE:HD13	2.42	0.54
1:c:339:THR:HG22	1:c:404:ARG:HG3	1.89	0.54
1:d:252:TYR:OH	1:d:372:VAL:O	2.24	0.54
1:g:597:THR:O	1:g:597:THR:CG2	2.56	0.54
1:i:270:ASN:HD21	1:k:471:ARG:HG2	1.72	0.54
1:l:597:THR:O	1:l:597:THR:CG2	2.56	0.54
1:o:601:LEU:CD2	1:p:481:PRO:HB2	2.37	0.54
1:q:319:GLN:O	1:q:674:SER:HA	2.07	0.54
1:r:471:ARG:HG2	1:s:270:ASN:HD21	1.72	0.54
1:w:601:LEU:CD2	1:x:481:PRO:HB2	2.37	0.54
1:x:283:ASP:CB	1:x:354:LEU:HD21	2.36	0.54
1:x:319:GLN:HB2	1:x:675:THR:CG2	2.36	0.54
1:x:697:GLU:OE1	1:x:731:LEU:HD23	2.07	0.54
1:4:597:THR:O	1:4:597:THR:CG2	2.56	0.54
1:6:313:PHE:CE2	1:6:646:ILE:HD13	2.42	0.54
1:B:339:THR:HG22	1:B:404:ARG:HG3	1.89	0.54
1:F:469:ASP:OD1	1:F:469:ASP:N	2.39	0.54
1:F:597:THR:O	1:F:597:THR:CG2	2.56	0.54
1:H:313:PHE:CE2	1:H:646:ILE:HD13	2.42	0.54
1:I:697:GLU:OE1	1:I:731:LEU:HD23	2.07	0.54
1:J:319:GLN:O	1:J:674:SER:HA	2.07	0.54
1:M:339:THR:HG22	1:M:404:ARG:HG3	1.89	0.54
1:M:697:GLU:OE1	1:M:731:LEU:HD23	2.07	0.54
1:Q:283:ASP:CB	1:Q:354:LEU:HD21	2.36	0.54
1:Q:319:GLN:HB2	1:Q:675:THR:CG2	2.36	0.54
1:Q:339:THR:HG22	1:Q:404:ARG:HG3	1.88	0.54
1:V:353:VAL:N	1:V:645:GLN:HE22	2.00	0.54
1:V:481:PRO:HB2	1:X:601:LEU:CD2	2.37	0.54
1:X:313:PHE:CE2	1:X:646:ILE:HD13	2.42	0.54
1:Y:313:PHE:CE2	1:Y:646:ILE:HD13	2.42	0.54
1:Z:252:TYR:OH	1:Z:372:VAL:O	2.25	0.54
1:Z:481:PRO:HB2	1:3:601:LEU:CD2	2.37	0.54
1:c:313:PHE:CE2	1:c:646:ILE:HD13	2.42	0.54
1:d:353:VAL:N	1:d:645:GLN:NE2	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:597:THR:O	1:d:597:THR:CG2	2.56	0.54
1:e:339:THR:HG22	1:e:404:ARG:HG3	1.89	0.54
1:f:481:PRO:HB2	1:g:601:LEU:CD2	2.37	0.54
1:g:270:ASN:HD21	1:h:471:ARG:HG2	1.72	0.54
1:g:481:PRO:HB2	1:h:601:LEU:CD2	2.37	0.54
1:h:697:GLU:OE1	1:h:731:LEU:HD23	2.07	0.54
1:m:353:VAL:N	1:m:645:GLN:HE22	2.00	0.54
1:n:252:TYR:OH	1:n:372:VAL:O	2.24	0.54
1:n:353:VAL:N	1:n:645:GLN:NE2	2.50	0.54
1:n:597:THR:O	1:n:597:THR:CG2	2.56	0.54
1:q:319:GLN:O	1:q:675:THR:N	2.37	0.54
1:s:319:GLN:O	1:s:674:SER:HA	2.07	0.54
1:u:353:VAL:N	1:u:645:GLN:NE2	2.50	0.54
1:y:597:THR:O	1:y:597:THR:CG2	2.56	0.54
1:1:339:THR:HG22	1:1:404:ARG:HG3	1.89	0.54
1:2:313:PHE:CE2	1:2:646:ILE:HD13	2.42	0.54
1:5:313:PHE:CE2	1:5:646:ILE:HD13	2.42	0.54
1:6:697:GLU:OE1	1:6:731:LEU:HD23	2.07	0.54
1:7:313:PHE:CE2	1:7:646:ILE:HD13	2.42	0.54
1:7:339:THR:HG22	1:7:404:ARG:HG3	1.89	0.54
1:8:252:TYR:OH	1:8:372:VAL:O	2.25	0.54
1:8:697:GLU:OE1	1:8:731:LEU:HD23	2.07	0.54
1:F:252:TYR:OH	1:F:372:VAL:O	2.24	0.54
1:H:319:GLN:HB2	1:H:675:THR:CG2	2.36	0.54
1:I:353:VAL:N	1:I:645:GLN:NE2	2.50	0.54
1:M:481:PRO:HB2	1:b:601:LEU:CD2	2.37	0.54
1:O:601:LEU:CD2	1:m:481:PRO:HB2	2.37	0.54
1:P:597:THR:O	1:P:597:THR:CG2	2.56	0.54
1:S:319:GLN:O	1:S:674:SER:HA	2.07	0.54
1:V:471:ARG:HG2	1:e:270:ASN:HD21	1.72	0.54
1:V:697:GLU:OE1	1:V:731:LEU:HD23	2.07	0.54
1:Y:339:THR:HG22	1:Y:404:ARG:HG3	1.89	0.54
1:Z:697:GLU:OE1	1:Z:731:LEU:HD23	2.07	0.54
1:f:601:LEU:CD2	1:h:481:PRO:HB2	2.37	0.54
1:h:339:THR:HG22	1:h:404:ARG:HG3	1.89	0.54
1:i:313:PHE:CE2	1:i:646:ILE:HD13	2.42	0.54
1:k:319:GLN:O	1:k:675:THR:N	2.37	0.54
1:n:353:VAL:N	1:n:645:GLN:HE22	2.00	0.54
1:o:313:PHE:CE2	1:o:646:ILE:HD13	2.42	0.54
1:p:697:GLU:OE1	1:p:731:LEU:HD23	2.07	0.54
1:u:697:GLU:OE1	1:u:731:LEU:HD23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:319:GLN:O	1:v:674:SER:HA	2.07	0.54
1:x:319:GLN:O	1:x:674:SER:HA	2.07	0.54
1:x:339:THR:HG22	1:x:404:ARG:HG3	1.88	0.54
1:2:319:GLN:O	1:2:674:SER:HA	2.07	0.54
1:6:471:ARG:HG2	1:7:270:ASN:HD21	1.72	0.54
1:7:319:GLN:HB2	1:7:675:THR:CG2	2.36	0.54
1:A:242:THR:HG22	1:A:681:GLU:CB	2.38	0.54
1:A:319:GLN:O	1:A:674:SER:HA	2.07	0.54
1:A:601:LEU:CD2	1:G:481:PRO:HB2	2.37	0.54
1:J:597:THR:O	1:J:597:THR:CG2	2.56	0.54
1:N:313:PHE:CE2	1:N:646:ILE:HD13	2.42	0.54
1:O:242:THR:HG22	1:O:681:GLU:CB	2.38	0.54
1:O:313:PHE:CE2	1:O:646:ILE:HD13	2.42	0.54
1:Q:242:THR:HG22	1:Q:681:GLU:CB	2.38	0.54
1:Q:434:MET:SD	1:Q:473:GLN:CD	2.91	0.54
1:U:319:GLN:O	1:U:674:SER:HA	2.07	0.54
1:U:434:MET:SD	1:U:473:GLN:CD	2.91	0.54
1:W:697:GLU:OE1	1:W:731:LEU:HD23	2.07	0.54
1:Y:319:GLN:HB2	1:Y:675:THR:CG2	2.36	0.54
1:c:270:ASN:HD21	1:p:471:ARG:HG2	1.72	0.54
1:d:697:GLU:OE1	1:d:731:LEU:HD23	2.07	0.54
1:j:339:THR:HG22	1:j:404:ARG:HG3	1.89	0.54
1:j:597:THR:O	1:j:597:THR:CG2	2.56	0.54
1:l:242:THR:HG22	1:l:681:GLU:CB	2.38	0.54
1:l:313:PHE:CE2	1:l:646:ILE:HD13	2.42	0.54
1:m:313:PHE:CE2	1:m:646:ILE:HD13	2.42	0.54
1:r:319:GLN:O	1:r:674:SER:HA	2.07	0.54
1:s:434:MET:SD	1:s:473:GLN:CD	2.91	0.54
1:t:252:TYR:OH	1:t:372:VAL:O	2.25	0.54
1:t:481:PRO:HB2	1:v:601:LEU:CD2	2.37	0.54
1:v:242:THR:HG22	1:v:681:GLU:CB	2.38	0.54
1:y:252:TYR:OH	1:y:372:VAL:O	2.24	0.54
1:1:434:MET:SD	1:1:473:GLN:CD	2.91	0.54
1:3:270:ASN:HD21	1:4:471:ARG:HG2	1.72	0.54
1:5:319:GLN:HB2	1:5:675:THR:CG2	2.36	0.54
1:C:471:ARG:HG2	1:b:270:ASN:HD21	1.72	0.54
1:D:319:GLN:O	1:D:675:THR:N	2.37	0.54
1:D:434:MET:SD	1:D:473:GLN:CD	2.91	0.54
1:D:597:THR:O	1:D:597:THR:CG2	2.56	0.54
1:E:481:PRO:HB2	1:F:601:LEU:CD2	2.37	0.54
1:F:434:MET:SD	1:F:473:GLN:CD	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:597:THR:O	1:H:597:THR:CG2	2.56	0.54
1:J:434:MET:SD	1:J:473:GLN:CD	2.91	0.54
1:K:434:MET:SD	1:K:473:GLN:CD	2.91	0.54
1:K:471:ARG:HG2	1:a:270:ASN:HD21	1.72	0.54
1:M:434:MET:SD	1:M:473:GLN:CD	2.91	0.54
1:M:597:THR:O	1:M:597:THR:CG2	2.56	0.54
1:Q:319:GLN:O	1:Q:674:SER:HA	2.07	0.54
1:R:319:GLN:O	1:R:675:THR:N	2.37	0.54
1:T:313:PHE:CE2	1:T:646:ILE:HD13	2.42	0.54
1:T:434:MET:SD	1:T:473:GLN:CD	2.91	0.54
1:T:481:PRO:HB2	1:l:601:LEU:CD2	2.37	0.54
1:b:434:MET:SD	1:b:473:GLN:CD	2.91	0.54
1:c:319:GLN:O	1:c:675:THR:N	2.37	0.54
1:c:434:MET:SD	1:c:473:GLN:CD	2.91	0.54
1:e:242:THR:HG22	1:e:681:GLU:CB	2.38	0.54
1:e:434:MET:SD	1:e:473:GLN:CD	2.91	0.54
1:f:434:MET:SD	1:f:473:GLN:CD	2.91	0.54
1:h:434:MET:SD	1:h:473:GLN:CD	2.91	0.54
1:h:597:THR:O	1:h:597:THR:CG2	2.56	0.54
1:k:434:MET:SD	1:k:473:GLN:CD	2.91	0.54
1:k:597:THR:O	1:k:597:THR:CG2	2.56	0.54
1:l:434:MET:SD	1:l:473:GLN:CD	2.91	0.54
1:m:434:MET:SD	1:m:473:GLN:CD	2.91	0.54
1:n:697:GLU:OE1	1:n:731:LEU:HD23	2.07	0.54
1:p:339:THR:HG22	1:p:404:ARG:HG3	1.88	0.54
1:t:319:GLN:O	1:t:675:THR:N	2.37	0.54
1:x:242:THR:HG22	1:x:681:GLU:CB	2.38	0.54
1:x:434:MET:SD	1:x:473:GLN:CD	2.91	0.54
1:y:434:MET:SD	1:y:473:GLN:CD	2.91	0.54
1:1:313:PHE:CE2	1:1:646:ILE:HD13	2.42	0.54
1:2:434:MET:SD	1:2:473:GLN:CD	2.91	0.54
1:2:597:THR:O	1:2:597:THR:CG2	2.56	0.54
1:4:434:MET:SD	1:4:473:GLN:CD	2.91	0.54
1:A:313:PHE:CE2	1:A:646:ILE:HD13	2.42	0.54
1:B:242:THR:HG22	1:B:681:GLU:CB	2.38	0.54
1:B:313:PHE:CE2	1:B:646:ILE:HD13	2.42	0.54
1:B:434:MET:SD	1:B:473:GLN:CD	2.91	0.54
1:E:242:THR:HG22	1:E:681:GLU:CB	2.38	0.54
1:F:242:THR:HG22	1:F:681:GLU:CB	2.38	0.54
1:F:313:PHE:CE2	1:F:646:ILE:HD13	2.42	0.54
1:G:242:THR:HG22	1:G:681:GLU:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:252:TYR:OH	1:G:372:VAL:O	2.25	0.54
1:G:313:PHE:CE2	1:G:646:ILE:HD13	2.42	0.54
1:H:319:GLN:O	1:H:674:SER:HA	2.07	0.54
1:I:434:MET:SD	1:I:473:GLN:CD	2.91	0.54
1:P:242:THR:HG22	1:P:681:GLU:CB	2.38	0.54
1:P:339:THR:HG22	1:P:404:ARG:HG3	1.89	0.54
1:T:242:THR:HG22	1:T:681:GLU:CB	2.38	0.54
1:V:339:THR:HG22	1:V:404:ARG:HG3	1.88	0.54
1:a:434:MET:SD	1:a:473:GLN:CD	2.91	0.54
1:a:471:ARG:HG2	1:8:270:ASN:HD21	1.72	0.54
1:c:242:THR:HG22	1:c:681:GLU:CB	2.38	0.54
1:e:319:GLN:O	1:e:675:THR:N	2.37	0.54
1:g:313:PHE:CE2	1:g:646:ILE:HD13	2.42	0.54
1:i:434:MET:SD	1:i:473:GLN:CD	2.91	0.54
1:j:242:THR:HG22	1:j:681:GLU:CB	2.38	0.54
1:t:313:PHE:CE2	1:t:646:ILE:HD13	2.42	0.54
1:v:313:PHE:CE2	1:v:646:ILE:HD13	2.42	0.54
1:w:242:THR:HG22	1:w:681:GLU:CB	2.38	0.54
1:x:319:GLN:O	1:x:675:THR:N	2.37	0.54
1:y:313:PHE:CE2	1:y:646:ILE:HD13	2.42	0.54
1:1:242:THR:HG22	1:1:681:GLU:CB	2.38	0.54
1:3:434:MET:SD	1:3:473:GLN:CD	2.91	0.54
1:5:597:THR:O	1:5:597:THR:CG2	2.56	0.54
1:G:597:THR:O	1:G:597:THR:CG2	2.56	0.53
1:N:434:MET:SD	1:N:473:GLN:CD	2.91	0.53
1:O:434:MET:SD	1:O:473:GLN:CD	2.91	0.53
1:Q:319:GLN:O	1:Q:675:THR:N	2.37	0.53
1:Z:270:ASN:HD21	1:3:471:ARG:HG2	1.72	0.53
1:a:601:LEU:CD2	1:8:481:PRO:HB2	2.37	0.53
1:d:353:VAL:N	1:d:645:GLN:HE22	2.00	0.53
1:f:270:ASN:HD21	1:g:471:ARG:HG2	1.72	0.53
1:m:242:THR:HG22	1:m:681:GLU:CB	2.38	0.53
1:r:697:GLU:OE1	1:r:731:LEU:HD23	2.07	0.53
1:t:242:THR:HG22	1:t:681:GLU:CB	2.38	0.53
1:t:597:THR:O	1:t:597:THR:CG2	2.56	0.53
1:u:434:MET:SD	1:u:473:GLN:CD	2.91	0.53
1:u:471:ARG:HG2	1:v:270:ASN:HD21	1.72	0.53
1:w:481:PRO:HB2	1:y:601:LEU:CD2	2.37	0.53
1:y:242:THR:HG22	1:y:681:GLU:CB	2.38	0.53
1:y:319:GLN:O	1:y:675:THR:N	2.37	0.53
1:5:319:GLN:O	1:5:674:SER:HA	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:353:VAL:N	1:7:645:GLN:NE2	2.50	0.53
1:C:313:PHE:CE2	1:C:646:ILE:HD13	2.42	0.53
1:E:434:MET:SD	1:E:473:GLN:CD	2.91	0.53
1:G:319:GLN:O	1:G:675:THR:N	2.37	0.53
1:I:418:VAL:HB	1:I:419:PRO:HD2	1.91	0.53
1:K:418:VAL:HB	1:K:419:PRO:HD2	1.91	0.53
1:P:434:MET:SD	1:P:473:GLN:CD	2.91	0.53
1:U:353:VAL:N	1:U:645:GLN:HE22	2.00	0.53
1:W:242:THR:HG22	1:W:681:GLU:CB	2.38	0.53
1:Y:242:THR:HG22	1:Y:681:GLU:CB	2.38	0.53
1:b:252:TYR:OH	1:b:372:VAL:O	2.24	0.53
1:d:434:MET:SD	1:d:473:GLN:CD	2.91	0.53
1:f:252:TYR:OH	1:f:372:VAL:O	2.24	0.53
1:i:242:THR:HG22	1:i:681:GLU:CB	2.38	0.53
1:j:319:GLN:O	1:j:675:THR:N	2.37	0.53
1:j:434:MET:SD	1:j:473:GLN:CD	2.91	0.53
1:n:434:MET:SD	1:n:473:GLN:CD	2.91	0.53
1:o:252:TYR:OH	1:o:372:VAL:O	2.25	0.53
1:o:434:MET:SD	1:o:473:GLN:CD	2.91	0.53
1:r:353:VAL:N	1:r:645:GLN:HE22	2.00	0.53
1:s:252:TYR:OH	1:s:372:VAL:O	2.24	0.53
1:s:353:VAL:N	1:s:645:GLN:NE2	2.50	0.53
1:u:418:VAL:HB	1:u:419:PRO:HD2	1.91	0.53
1:u:597:THR:O	1:u:597:THR:CG2	2.56	0.53
1:w:434:MET:SD	1:w:473:GLN:CD	2.91	0.53
1:x:418:VAL:HB	1:x:419:PRO:HD2	1.91	0.53
1:y:339:THR:HG22	1:y:404:ARG:HG3	1.89	0.53
1:4:418:VAL:HB	1:4:419:PRO:HD2	1.91	0.53
1:6:434:MET:SD	1:6:473:GLN:CD	2.91	0.53
1:7:242:THR:HG22	1:7:681:GLU:CB	2.38	0.53
1:7:597:THR:O	1:7:597:THR:CG2	2.56	0.53
1:A:270:ASN:HD21	1:I:471:ARG:HG2	1.72	0.53
1:F:339:THR:HG22	1:F:404:ARG:HG3	1.89	0.53
1:I:597:THR:O	1:I:597:THR:CG2	2.56	0.53
1:K:693:ARG:NE	1:K:695:ASN:OD1	2.42	0.53
1:M:242:THR:HG22	1:M:681:GLU:CB	2.38	0.53
1:N:242:THR:HG22	1:N:681:GLU:CB	2.38	0.53
1:P:319:GLN:O	1:P:675:THR:N	2.37	0.53
1:Q:418:VAL:HB	1:Q:419:PRO:HD2	1.91	0.53
1:R:434:MET:SD	1:R:473:GLN:CD	2.91	0.53
1:R:693:ARG:NE	1:R:695:ASN:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:697:GLU:OE1	1:S:731:LEU:HD23	2.07	0.53
1:V:434:MET:SD	1:V:473:GLN:CD	2.91	0.53
1:X:434:MET:SD	1:X:473:GLN:CD	2.91	0.53
1:Y:597:THR:O	1:Y:597:THR:CG2	2.56	0.53
1:Z:418:VAL:HB	1:Z:419:PRO:HD2	1.91	0.53
1:Z:693:ARG:NE	1:Z:695:ASN:OD1	2.42	0.53
1:b:418:VAL:HB	1:b:419:PRO:HD2	1.91	0.53
1:d:471:ARG:HG2	1:l:270:ASN:HD21	1.72	0.53
1:f:418:VAL:HB	1:f:419:PRO:HD2	1.91	0.53
1:p:434:MET:SD	1:p:473:GLN:CD	2.91	0.53
1:q:434:MET:SD	1:q:473:GLN:CD	2.91	0.53
1:q:693:ARG:NE	1:q:695:ASN:OD1	2.42	0.53
1:w:597:THR:O	1:w:597:THR:CG2	2.56	0.53
1:4:693:ARG:NE	1:4:695:ASN:OD1	2.42	0.53
1:6:252:TYR:OH	1:6:372:VAL:O	2.25	0.53
1:8:418:VAL:HB	1:8:419:PRO:HD2	1.91	0.53
1:8:693:ARG:NE	1:8:695:ASN:OD1	2.42	0.53
1:A:693:ARG:NE	1:A:695:ASN:OD1	2.42	0.53
1:B:693:ARG:NE	1:B:695:ASN:OD1	2.42	0.53
1:D:242:THR:HG22	1:D:681:GLU:CB	2.38	0.53
1:E:597:THR:O	1:E:597:THR:CG2	2.56	0.53
1:F:319:GLN:O	1:F:675:THR:N	2.37	0.53
1:H:252:TYR:OH	1:H:372:VAL:O	2.25	0.53
1:O:270:ASN:HD21	1:n:471:ARG:HG2	1.72	0.53
1:U:242:THR:HG22	1:U:681:GLU:CB	2.38	0.53
1:U:353:VAL:N	1:U:645:GLN:NE2	2.50	0.53
1:W:434:MET:SD	1:W:473:GLN:CD	2.91	0.53
1:X:252:TYR:OH	1:X:372:VAL:O	2.25	0.53
1:b:693:ARG:NE	1:b:695:ASN:OD1	2.42	0.53
1:f:693:ARG:NE	1:f:695:ASN:OD1	2.42	0.53
1:h:242:THR:HG22	1:h:681:GLU:CB	2.38	0.53
1:i:252:TYR:OH	1:i:372:VAL:O	2.25	0.53
1:n:693:ARG:NE	1:n:695:ASN:OD1	2.42	0.53
1:v:693:ARG:NE	1:v:695:ASN:OD1	2.42	0.53
1:1:693:ARG:NE	1:1:695:ASN:OD1	2.42	0.53
1:6:242:THR:HG22	1:6:681:GLU:CB	2.38	0.53
1:7:697:GLU:OE1	1:7:731:LEU:HD23	2.07	0.53
1:A:434:MET:SD	1:A:473:GLN:CD	2.91	0.53
1:B:270:ASN:HD21	1:L:471:ARG:HG2	1.72	0.53
1:J:418:VAL:HB	1:J:419:PRO:HD2	1.91	0.53
1:M:252:TYR:OH	1:M:372:VAL:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:270:ASN:HD21	1:b:471:ARG:HG2	1.72	0.53
1:P:252:TYR:OH	1:P:372:VAL:O	2.25	0.53
1:P:342:VAL:CG2	1:P:648:ILE:HD12	2.39	0.53
1:S:339:THR:HG22	1:S:404:ARG:HG3	1.89	0.53
1:T:342:VAL:CG2	1:T:648:ILE:HD12	2.39	0.53
1:U:252:TYR:OH	1:U:372:VAL:O	2.24	0.53
1:U:693:ARG:NE	1:U:695:ASN:OD1	2.42	0.53
1:X:319:GLN:O	1:X:674:SER:HA	2.06	0.53
1:Y:353:VAL:N	1:Y:645:GLN:NE2	2.50	0.53
1:a:418:VAL:HB	1:a:419:PRO:HD2	1.91	0.53
1:a:693:ARG:NE	1:a:695:ASN:OD1	2.42	0.53
1:d:693:ARG:NE	1:d:695:ASN:OD1	2.42	0.53
1:h:252:TYR:OH	1:h:372:VAL:O	2.25	0.53
1:j:252:TYR:OH	1:j:372:VAL:O	2.25	0.53
1:k:242:THR:HG22	1:k:681:GLU:CB	2.38	0.53
1:m:342:VAL:CG2	1:m:648:ILE:HD12	2.39	0.53
1:o:319:GLN:O	1:o:674:SER:HA	2.06	0.53
1:2:418:VAL:HB	1:2:419:PRO:HD2	1.91	0.53
1:3:418:VAL:HB	1:3:419:PRO:HD2	1.91	0.53
1:3:693:ARG:NE	1:3:695:ASN:OD1	2.42	0.53
1:5:252:TYR:OH	1:5:372:VAL:O	2.25	0.53
1:C:434:MET:SD	1:C:473:GLN:CD	2.91	0.53
1:D:342:VAL:CG2	1:D:648:ILE:HD12	2.39	0.53
1:G:434:MET:SD	1:G:473:GLN:CD	2.91	0.53
1:H:342:VAL:CG2	1:H:648:ILE:HD12	2.39	0.53
1:J:342:VAL:CG2	1:J:648:ILE:HD12	2.39	0.53
1:L:242:THR:HG22	1:L:681:GLU:CB	2.38	0.53
1:L:342:VAL:CG2	1:L:648:ILE:HD12	2.39	0.53
1:L:418:VAL:HB	1:L:419:PRO:HD2	1.91	0.53
1:N:252:TYR:OH	1:N:372:VAL:O	2.25	0.53
1:P:693:ARG:NE	1:P:695:ASN:OD1	2.42	0.53
1:S:353:VAL:N	1:S:645:GLN:HE22	2.00	0.53
1:S:434:MET:SD	1:S:473:GLN:CD	2.91	0.53
1:V:597:THR:O	1:V:597:THR:CG2	2.56	0.53
1:W:252:TYR:OH	1:W:372:VAL:O	2.25	0.53
1:X:342:VAL:CG2	1:X:648:ILE:HD12	2.39	0.53
1:Y:697:GLU:OE1	1:Y:731:LEU:HD23	2.07	0.53
1:b:342:VAL:CG2	1:b:648:ILE:HD12	2.39	0.53
1:c:597:THR:O	1:c:597:THR:CG2	2.56	0.53
1:d:242:THR:HG22	1:d:681:GLU:CB	2.38	0.53
1:f:471:ARG:HG2	1:h:270:ASN:HD21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:434:MET:SD	1:g:473:GLN:CD	2.91	0.53
1:j:342:VAL:CG2	1:j:648:ILE:HD12	2.39	0.53
1:j:693:ARG:NE	1:j:695:ASN:OD1	2.42	0.53
1:k:342:VAL:CG2	1:k:648:ILE:HD12	2.39	0.53
1:k:418:VAL:HB	1:k:419:PRO:HD2	1.91	0.53
1:r:339:THR:HG22	1:r:404:ARG:HG3	1.89	0.53
1:r:434:MET:SD	1:r:473:GLN:CD	2.91	0.53
1:s:242:THR:HG22	1:s:681:GLU:CB	2.38	0.53
1:s:353:VAL:N	1:s:645:GLN:HE22	2.00	0.53
1:s:693:ARG:NE	1:s:695:ASN:OD1	2.42	0.53
1:t:418:VAL:HB	1:t:419:PRO:HD2	1.91	0.53
1:t:434:MET:SD	1:t:473:GLN:CD	2.91	0.53
1:z:242:THR:HG22	1:z:681:GLU:CB	2.38	0.53
1:z:342:VAL:CG2	1:z:648:ILE:HD12	2.39	0.53
1:z:434:MET:SD	1:z:473:GLN:CD	2.91	0.53
1:z:471:ARG:HG2	1:1:270:ASN:HD21	1.72	0.53
1:2:342:VAL:CG2	1:2:648:ILE:HD12	2.39	0.53
1:4:252:TYR:OH	1:4:372:VAL:O	2.24	0.53
1:5:418:VAL:HB	1:5:419:PRO:HD2	1.91	0.53
1:B:342:VAL:CG2	1:B:648:ILE:HD12	2.39	0.53
1:C:342:VAL:CG2	1:C:648:ILE:HD12	2.39	0.53
1:C:693:ARG:NE	1:C:695:ASN:OD1	2.42	0.53
1:D:418:VAL:HB	1:D:419:PRO:HD2	1.91	0.53
1:E:342:VAL:CG2	1:E:648:ILE:HD12	2.39	0.53
1:H:418:VAL:HB	1:H:419:PRO:HD2	1.91	0.53
1:H:434:MET:SD	1:H:473:GLN:CD	2.91	0.53
1:J:693:ARG:NE	1:J:695:ASN:OD1	2.42	0.53
1:L:434:MET:SD	1:L:473:GLN:CD	2.91	0.53
1:V:342:VAL:CG2	1:V:648:ILE:HD12	2.39	0.53
1:a:342:VAL:CG2	1:a:648:ILE:HD12	2.39	0.53
1:e:597:THR:O	1:e:597:THR:CG2	2.56	0.53
1:f:342:VAL:CG2	1:f:648:ILE:HD12	2.39	0.53
1:g:342:VAL:CG2	1:g:648:ILE:HD12	2.39	0.53
1:g:693:ARG:NE	1:g:695:ASN:OD1	2.42	0.53
1:n:319:GLN:O	1:n:675:THR:N	2.37	0.53
1:o:342:VAL:CG2	1:o:648:ILE:HD12	2.39	0.53
1:o:597:THR:O	1:o:597:THR:CG2	2.56	0.53
1:p:342:VAL:CG2	1:p:648:ILE:HD12	2.39	0.53
1:p:597:THR:O	1:p:597:THR:CG2	2.56	0.53
1:q:252:TYR:OH	1:q:372:VAL:O	2.24	0.53
1:v:434:MET:SD	1:v:473:GLN:CD	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:342:VAL:CG2	1:w:648:ILE:HD12	2.39	0.53
1:1:342:VAL:CG2	1:1:648:ILE:HD12	2.39	0.53
1:5:342:VAL:CG2	1:5:648:ILE:HD12	2.39	0.53
1:5:434:MET:SD	1:5:473:GLN:CD	2.91	0.53
1:C:418:VAL:HB	1:C:419:PRO:HD2	1.91	0.53
1:G:418:VAL:HB	1:G:419:PRO:HD2	1.91	0.53
1:K:242:THR:HG22	1:K:681:GLU:CB	2.38	0.53
1:K:252:TYR:OH	1:K:372:VAL:O	2.24	0.53
1:R:252:TYR:OH	1:R:372:VAL:O	2.24	0.53
1:T:319:GLN:HB2	1:T:675:THR:HG23	1.91	0.53
1:T:418:VAL:HB	1:T:419:PRO:HD2	1.91	0.53
1:U:319:GLN:HB2	1:U:675:THR:HG23	1.91	0.53
1:W:693:ARG:NE	1:W:695:ASN:OD1	2.42	0.53
1:X:469:ASP:OD1	1:X:469:ASP:N	2.39	0.53
1:X:693:ARG:NE	1:X:695:ASN:OD1	2.42	0.53
1:Y:434:MET:SD	1:Y:473:GLN:CD	2.91	0.53
1:Z:434:MET:SD	1:Z:473:GLN:CD	2.91	0.53
1:a:252:TYR:OH	1:a:372:VAL:O	2.24	0.53
1:a:597:THR:O	1:a:597:THR:CG2	2.56	0.53
1:d:342:VAL:CG2	1:d:648:ILE:HD12	2.39	0.53
1:i:693:ARG:NE	1:i:695:ASN:OD1	2.42	0.53
1:n:242:THR:HG22	1:n:681:GLU:CB	2.38	0.53
1:n:342:VAL:CG2	1:n:648:ILE:HD12	2.39	0.53
1:o:469:ASP:OD1	1:o:469:ASP:N	2.39	0.53
1:s:319:GLN:HB2	1:s:675:THR:HG23	1.91	0.53
1:z:418:VAL:HB	1:z:419:PRO:HD2	1.91	0.53
1:2:693:ARG:NE	1:2:695:ASN:OD1	2.42	0.53
1:3:342:VAL:CG2	1:3:648:ILE:HD12	2.39	0.53
1:4:242:THR:HG22	1:4:681:GLU:CB	2.38	0.53
1:6:693:ARG:NE	1:6:695:ASN:OD1	2.42	0.53
1:7:434:MET:SD	1:7:473:GLN:CD	2.91	0.53
1:8:434:MET:SD	1:8:473:GLN:CD	2.91	0.53
1:D:319:GLN:HB2	1:D:675:THR:HG23	1.91	0.53
1:E:693:ARG:NE	1:E:695:ASN:OD1	2.42	0.53
1:F:693:ARG:NE	1:F:695:ASN:OD1	2.42	0.53
1:H:242:THR:HG22	1:H:681:GLU:CB	2.38	0.53
1:N:693:ARG:NE	1:N:695:ASN:OD1	2.42	0.53
1:S:342:VAL:CG2	1:S:648:ILE:HD12	2.39	0.53
1:S:693:ARG:NE	1:S:695:ASN:OD1	2.42	0.53
1:V:242:THR:HG22	1:V:681:GLU:CB	2.38	0.53
1:X:597:THR:O	1:X:597:THR:CG2	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:242:THR:HG22	1:Z:681:GLU:CB	2.38	0.53
1:a:319:GLN:HB2	1:a:675:THR:HG23	1.91	0.53
1:d:319:GLN:O	1:d:675:THR:N	2.37	0.53
1:g:418:VAL:HB	1:g:419:PRO:HD2	1.91	0.53
1:k:319:GLN:HB2	1:k:675:THR:HG23	1.91	0.53
1:k:697:GLU:OE1	1:k:731:LEU:HD23	2.07	0.53
1:m:319:GLN:HB2	1:m:675:THR:HG23	1.91	0.53
1:m:418:VAL:HB	1:m:419:PRO:HD2	1.91	0.53
1:m:693:ARG:NE	1:m:695:ASN:OD1	2.42	0.53
1:o:693:ARG:NE	1:o:695:ASN:OD1	2.42	0.53
1:p:418:VAL:HB	1:p:419:PRO:HD2	1.91	0.53
1:r:342:VAL:CG2	1:r:648:ILE:HD12	2.39	0.53
1:r:597:THR:O	1:r:597:THR:CG2	2.56	0.53
1:w:693:ARG:NE	1:w:695:ASN:OD1	2.42	0.53
1:y:693:ARG:NE	1:y:695:ASN:OD1	2.42	0.53
1:2:242:THR:HG22	1:2:681:GLU:CB	2.38	0.53
1:3:319:GLN:HB2	1:3:675:THR:HG23	1.91	0.53
1:8:242:THR:HG22	1:8:681:GLU:CB	2.38	0.53
1:8:597:THR:O	1:8:597:THR:CG2	2.56	0.53
1:C:242:THR:HG22	1:C:681:GLU:CB	2.38	0.53
1:D:697:GLU:OE1	1:D:731:LEU:HD23	2.07	0.53
1:H:693:ARG:NE	1:H:695:ASN:OD1	2.42	0.53
1:J:295:ASP:OD2	1:J:298:ARG:NH1	2.42	0.53
1:M:693:ARG:NE	1:M:695:ASN:OD1	2.42	0.53
1:O:342:VAL:CG2	1:O:648:ILE:HD12	2.39	0.53
1:P:295:ASP:OD2	1:P:298:ARG:NH1	2.42	0.53
1:Q:295:ASP:OD2	1:Q:298:ARG:NH1	2.42	0.53
1:S:242:THR:HG22	1:S:681:GLU:CB	2.38	0.53
1:S:597:THR:O	1:S:597:THR:CG2	2.56	0.53
1:T:234:TRP:CE2	1:T:298:ARG:HD3	2.45	0.53
1:V:295:ASP:OD2	1:V:298:ARG:NH1	2.42	0.53
1:V:418:VAL:HB	1:V:419:PRO:HD2	1.91	0.53
1:Z:234:TRP:CE2	1:Z:298:ARG:HD3	2.44	0.53
1:Z:295:ASP:OD2	1:Z:298:ARG:NH1	2.42	0.53
1:Z:597:THR:O	1:Z:597:THR:CG2	2.56	0.53
1:c:353:VAL:N	1:c:645:GLN:NE2	2.50	0.53
1:c:418:VAL:HB	1:c:419:PRO:HD2	1.91	0.53
1:d:295:ASP:OD2	1:d:298:ARG:NH1	2.42	0.53
1:m:234:TRP:CE2	1:m:298:ARG:HD3	2.45	0.53
1:n:295:ASP:OD2	1:n:298:ARG:NH1	2.42	0.53
1:p:242:THR:HG22	1:p:681:GLU:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:295:ASP:OD2	1:p:298:ARG:NH1	2.42	0.53
1:r:693:ARG:NE	1:r:695:ASN:OD1	2.42	0.53
1:t:693:ARG:NE	1:t:695:ASN:OD1	2.42	0.53
1:x:252:TYR:OH	1:x:372:VAL:O	2.24	0.53
1:x:295:ASP:OD2	1:x:298:ARG:NH1	2.42	0.53
1:y:319:GLN:HB2	1:y:675:THR:HG23	1.91	0.53
1:y:418:VAL:HB	1:y:419:PRO:HD2	1.91	0.53
1:2:295:ASP:OD2	1:2:298:ARG:NH1	2.42	0.53
1:3:234:TRP:CE2	1:3:298:ARG:HD3	2.44	0.53
1:3:597:THR:O	1:3:597:THR:CG2	2.56	0.53
1:5:242:THR:HG22	1:5:681:GLU:CB	2.38	0.53
1:5:693:ARG:NE	1:5:695:ASN:OD1	2.42	0.53
1:7:418:VAL:HB	1:7:419:PRO:HD2	1.91	0.53
1:8:234:TRP:CE2	1:8:298:ARG:HD3	2.44	0.53
1:8:295:ASP:OD2	1:8:298:ARG:NH1	2.42	0.53
1:8:342:VAL:CG2	1:8:648:ILE:HD12	2.39	0.53
1:A:234:TRP:CE2	1:A:298:ARG:HD3	2.44	0.52
1:B:234:TRP:CE2	1:B:298:ARG:HD3	2.45	0.52
1:F:319:GLN:HB2	1:F:675:THR:HG23	1.91	0.52
1:F:418:VAL:HB	1:F:419:PRO:HD2	1.91	0.52
1:G:234:TRP:CE2	1:G:298:ARG:HD3	2.44	0.52
1:G:693:ARG:NE	1:G:695:ASN:OD1	2.42	0.52
1:I:234:TRP:CE2	1:I:298:ARG:HD3	2.45	0.52
1:J:242:THR:HG22	1:J:681:GLU:CB	2.38	0.52
1:L:693:ARG:NE	1:L:695:ASN:OD1	2.42	0.52
1:Q:252:TYR:OH	1:Q:372:VAL:O	2.24	0.52
1:S:234:TRP:CE2	1:S:298:ARG:HD3	2.45	0.52
1:T:693:ARG:NE	1:T:695:ASN:OD1	2.42	0.52
1:U:295:ASP:OD2	1:U:298:ARG:NH1	2.42	0.52
1:V:693:ARG:NE	1:V:695:ASN:OD1	2.42	0.52
1:Z:342:VAL:CG2	1:Z:648:ILE:HD12	2.39	0.52
1:a:234:TRP:CE2	1:a:298:ARG:HD3	2.44	0.52
1:b:242:THR:HG22	1:b:681:GLU:CB	2.38	0.52
1:c:295:ASP:OD2	1:c:298:ARG:NH1	2.42	0.52
1:e:295:ASP:OD2	1:e:298:ARG:NH1	2.42	0.52
1:e:418:VAL:HB	1:e:419:PRO:HD2	1.91	0.52
1:e:693:ARG:NE	1:e:695:ASN:OD1	2.42	0.52
1:g:242:THR:HG22	1:g:681:GLU:CB	2.38	0.52
1:h:693:ARG:NE	1:h:695:ASN:OD1	2.42	0.52
1:j:295:ASP:OD2	1:j:298:ARG:NH1	2.42	0.52
1:k:693:ARG:NE	1:k:695:ASN:OD1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:342:VAL:CG2	1:l:648:ILE:HD12	2.39	0.52
1:t:234:TRP:CE2	1:t:298:ARG:HD3	2.44	0.52
1:u:234:TRP:CE2	1:u:298:ARG:HD3	2.45	0.52
1:x:693:ARG:NE	1:x:695:ASN:OD1	2.42	0.52
1:1:234:TRP:CE2	1:1:298:ARG:HD3	2.45	0.52
1:3:252:TYR:OH	1:3:372:VAL:O	2.24	0.52
1:A:435:ASN:ND2	1:A:438:ILE:HG12	2.25	0.52
1:C:295:ASP:OD2	1:C:298:ARG:NH1	2.42	0.52
1:D:693:ARG:NE	1:D:695:ASN:OD1	2.42	0.52
1:F:435:ASN:ND2	1:F:438:ILE:HG12	2.25	0.52
1:O:319:GLN:HB2	1:O:675:THR:HG23	1.91	0.52
1:Q:693:ARG:NE	1:Q:695:ASN:OD1	2.42	0.52
1:R:242:THR:HG22	1:R:681:GLU:CB	2.38	0.52
1:X:234:TRP:CE2	1:X:298:ARG:HD3	2.44	0.52
1:X:295:ASP:OD2	1:X:298:ARG:NH1	2.42	0.52
1:Y:418:VAL:HB	1:Y:419:PRO:HD2	1.91	0.52
1:c:693:ARG:NE	1:c:695:ASN:OD1	2.42	0.52
1:f:242:THR:HG22	1:f:681:GLU:CB	2.38	0.52
1:m:295:ASP:OD2	1:m:298:ARG:NH1	2.42	0.52
1:o:234:TRP:CE2	1:o:298:ARG:HD3	2.44	0.52
1:o:319:GLN:HB2	1:o:675:THR:HG23	1.91	0.52
1:p:319:GLN:HB2	1:p:675:THR:HG23	1.91	0.52
1:p:469:ASP:OD1	1:p:469:ASP:N	2.39	0.52
1:p:693:ARG:NE	1:p:695:ASN:OD1	2.42	0.52
1:q:242:THR:HG22	1:q:681:GLU:CB	2.38	0.52
1:q:697:GLU:OE1	1:q:731:LEU:HD23	2.07	0.52
1:r:234:TRP:CE2	1:r:298:ARG:HD3	2.45	0.52
1:r:242:THR:HG22	1:r:681:GLU:CB	2.38	0.52
1:r:252:TYR:OH	1:r:372:VAL:O	2.24	0.52
1:s:295:ASP:OD2	1:s:298:ARG:NH1	2.42	0.52
1:u:693:ARG:NE	1:u:695:ASN:OD1	2.42	0.52
1:v:234:TRP:CE2	1:v:298:ARG:HD3	2.44	0.52
1:v:435:ASN:ND2	1:v:438:ILE:HG12	2.25	0.52
1:x:342:VAL:CG2	1:x:648:ILE:HD12	2.39	0.52
1:y:435:ASN:ND2	1:y:438:ILE:HG12	2.25	0.52
1:7:252:TYR:OH	1:7:372:VAL:O	2.25	0.52
1:A:342:VAL:CG2	1:A:648:ILE:HD12	2.39	0.52
1:E:435:ASN:ND2	1:E:438:ILE:HG12	2.25	0.52
1:I:693:ARG:NE	1:I:695:ASN:OD1	2.42	0.52
1:K:435:ASN:ND2	1:K:438:ILE:HG12	2.25	0.52
1:N:435:ASN:ND2	1:N:438:ILE:HG12	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:342:VAL:CG2	1:Q:648:ILE:HD12	2.39	0.52
1:R:295:ASP:OD2	1:R:298:ARG:NH1	2.42	0.52
1:S:319:GLN:HB2	1:S:675:THR:HG23	1.91	0.52
1:S:435:ASN:ND2	1:S:438:ILE:HG12	2.25	0.52
1:T:295:ASP:OD2	1:T:298:ARG:NH1	2.42	0.52
1:V:319:GLN:HB2	1:V:675:THR:HG23	1.91	0.52
1:X:319:GLN:HB2	1:X:675:THR:HG23	1.91	0.52
1:c:342:VAL:CG2	1:c:648:ILE:HD12	2.39	0.52
1:d:319:GLN:HB2	1:d:675:THR:HG23	1.91	0.52
1:e:353:VAL:N	1:e:645:GLN:NE2	2.50	0.52
1:g:295:ASP:OD2	1:g:298:ARG:NH1	2.42	0.52
1:k:435:ASN:ND2	1:k:438:ILE:HG12	2.25	0.52
1:l:319:GLN:HB2	1:l:675:THR:HG23	1.91	0.52
1:n:234:TRP:CE2	1:n:298:ARG:HD3	2.44	0.52
1:o:295:ASP:OD2	1:o:298:ARG:NH1	2.42	0.52
1:r:435:ASN:ND2	1:r:438:ILE:HG12	2.25	0.52
1:u:421:HIS:CD2	1:u:421:HIS:C	2.88	0.52
1:v:342:VAL:CG2	1:v:648:ILE:HD12	2.39	0.52
1:v:597:THR:O	1:v:597:THR:CG2	2.56	0.52
1:w:435:ASN:ND2	1:w:438:ILE:HG12	2.25	0.52
1:z:693:ARG:NE	1:z:695:ASN:OD1	2.42	0.52
1:6:418:VAL:HB	1:6:419:PRO:HD2	1.91	0.52
1:B:597:THR:O	1:B:597:THR:CG2	2.56	0.52
1:D:234:TRP:CE2	1:D:298:ARG:HD3	2.45	0.52
1:D:435:ASN:ND2	1:D:438:ILE:HG12	2.25	0.52
1:G:435:ASN:ND2	1:G:438:ILE:HG12	2.25	0.52
1:N:295:ASP:OD2	1:N:298:ARG:NH1	2.42	0.52
1:N:418:VAL:HB	1:N:419:PRO:HD2	1.91	0.52
1:O:435:ASN:ND2	1:O:438:ILE:HG12	2.25	0.52
1:Q:435:ASN:ND2	1:Q:438:ILE:HG12	2.25	0.52
1:R:697:GLU:OE1	1:R:731:LEU:HD23	2.07	0.52
1:S:252:TYR:OH	1:S:372:VAL:O	2.24	0.52
1:S:295:ASP:OD2	1:S:298:ARG:NH1	2.42	0.52
1:U:418:VAL:HB	1:U:419:PRO:HD2	1.91	0.52
1:V:469:ASP:OD1	1:V:469:ASP:N	2.39	0.52
1:W:418:VAL:HB	1:W:419:PRO:HD2	1.91	0.52
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.25	0.52
1:Y:295:ASP:OD2	1:Y:298:ARG:NH1	2.42	0.52
1:b:597:THR:O	1:b:597:THR:CG2	2.56	0.52
1:c:319:GLN:HB2	1:c:675:THR:HG23	1.91	0.52
1:c:435:ASN:ND2	1:c:438:ILE:HG12	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:234:TRP:CE2	1:d:298:ARG:HD3	2.44	0.52
1:e:342:VAL:CG2	1:e:648:ILE:HD12	2.39	0.52
1:f:597:THR:O	1:f:597:THR:CG2	2.56	0.52
1:i:295:ASP:OD2	1:i:298:ARG:NH1	2.42	0.52
1:i:435:ASN:ND2	1:i:438:ILE:HG12	2.25	0.52
1:k:234:TRP:CE2	1:k:298:ARG:HD3	2.45	0.52
1:n:319:GLN:HB2	1:n:675:THR:HG23	1.91	0.52
1:q:295:ASP:OD2	1:q:298:ARG:NH1	2.42	0.52
1:s:418:VAL:HB	1:s:419:PRO:HD2	1.91	0.52
1:t:342:VAL:CG2	1:t:648:ILE:HD12	2.39	0.52
1:t:435:ASN:ND2	1:t:438:ILE:HG12	2.25	0.52
1:x:435:ASN:ND2	1:x:438:ILE:HG12	2.25	0.52
1:4:435:ASN:ND2	1:4:438:ILE:HG12	2.25	0.52
1:6:295:ASP:OD2	1:6:298:ARG:NH1	2.42	0.52
1:7:295:ASP:OD2	1:7:298:ARG:NH1	2.42	0.52
1:A:295:ASP:OD2	1:A:298:ARG:NH1	2.42	0.52
1:A:597:THR:O	1:A:597:THR:CG2	2.56	0.52
1:E:295:ASP:OD2	1:E:298:ARG:NH1	2.42	0.52
1:G:421:HIS:C	1:G:421:HIS:CD2	2.88	0.52
1:I:319:GLN:HB2	1:I:675:THR:HG23	1.91	0.52
1:I:342:VAL:CG2	1:I:648:ILE:HD12	2.39	0.52
1:U:319:GLN:O	1:U:675:THR:N	2.37	0.52
1:W:295:ASP:OD2	1:W:298:ARG:NH1	2.42	0.52
1:W:435:ASN:ND2	1:W:438:ILE:HG12	2.25	0.52
1:a:295:ASP:OD2	1:a:298:ARG:NH1	2.42	0.52
1:e:319:GLN:HB2	1:e:675:THR:HG23	1.91	0.52
1:e:435:ASN:ND2	1:e:438:ILE:HG12	2.25	0.52
1:i:418:VAL:HB	1:i:419:PRO:HD2	1.91	0.52
1:l:435:ASN:ND2	1:l:438:ILE:HG12	2.25	0.52
1:p:234:TRP:CE2	1:p:298:ARG:HD3	2.45	0.52
1:r:295:ASP:OD2	1:r:298:ARG:NH1	2.42	0.52
1:r:319:GLN:HB2	1:r:675:THR:HG23	1.91	0.52
1:t:421:HIS:C	1:t:421:HIS:CD2	2.88	0.52
1:u:242:THR:HG22	1:u:681:GLU:CB	2.38	0.52
1:v:295:ASP:OD2	1:v:298:ARG:NH1	2.42	0.52
1:w:252:TYR:OH	1:w:372:VAL:O	2.25	0.52
1:w:418:VAL:HB	1:w:419:PRO:HD2	1.91	0.52
1:2:234:TRP:CE2	1:2:298:ARG:HD3	2.45	0.52
1:2:319:GLN:O	1:2:675:THR:N	2.37	0.52
1:G:342:VAL:CG2	1:G:648:ILE:HD12	2.39	0.52
1:I:242:THR:HG22	1:I:681:GLU:CB	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:234:TRP:CE2	1:J:298:ARG:HD3	2.45	0.52
1:J:319:GLN:O	1:J:675:THR:N	2.37	0.52
1:K:319:GLN:HB2	1:K:675:THR:HG23	1.91	0.52
1:M:295:ASP:OD2	1:M:298:ARG:NH1	2.42	0.52
1:M:508:TYR:C	1:M:508:TYR:CD2	2.88	0.52
1:N:421:HIS:C	1:N:421:HIS:CD2	2.88	0.52
1:O:418:VAL:HB	1:O:419:PRO:HD2	1.91	0.52
1:P:435:ASN:ND2	1:P:438:ILE:HG12	2.25	0.52
1:Q:421:HIS:CD2	1:Q:421:HIS:C	2.88	0.52
1:R:342:VAL:CG2	1:R:648:ILE:HD12	2.39	0.52
1:V:435:ASN:ND2	1:V:438:ILE:HG12	2.25	0.52
1:W:508:TYR:C	1:W:508:TYR:CD2	2.88	0.52
1:X:418:VAL:HB	1:X:419:PRO:HD2	1.91	0.52
1:Y:693:ARG:NE	1:Y:695:ASN:OD1	2.42	0.52
1:g:234:TRP:CE2	1:g:298:ARG:HD3	2.45	0.52
1:h:418:VAL:HB	1:h:419:PRO:HD2	1.91	0.52
1:h:508:TYR:C	1:h:508:TYR:CD2	2.88	0.52
1:i:421:HIS:C	1:i:421:HIS:CD2	2.88	0.52
1:j:418:VAL:HB	1:j:419:PRO:HD2	1.91	0.52
1:p:435:ASN:ND2	1:p:438:ILE:HG12	2.25	0.52
1:q:418:VAL:HB	1:q:419:PRO:HD2	1.91	0.52
1:u:319:GLN:HB2	1:u:675:THR:HG23	1.91	0.52
1:u:342:VAL:CG2	1:u:648:ILE:HD12	2.39	0.52
1:z:234:TRP:CE2	1:z:298:ARG:HD3	2.45	0.52
1:1:597:THR:O	1:1:597:THR:CG2	2.56	0.52
1:3:295:ASP:OD2	1:3:298:ARG:NH1	2.42	0.52
1:6:342:VAL:CG2	1:6:648:ILE:HD12	2.39	0.52
1:6:435:ASN:ND2	1:6:438:ILE:HG12	2.25	0.52
1:7:693:ARG:NE	1:7:695:ASN:OD1	2.42	0.52
1:C:234:TRP:CE2	1:C:298:ARG:HD3	2.45	0.52
1:D:421:HIS:CD2	1:D:421:HIS:C	2.88	0.52
1:E:418:VAL:HB	1:E:419:PRO:HD2	1.91	0.52
1:H:295:ASP:OD2	1:H:298:ARG:NH1	2.42	0.52
1:L:234:TRP:CE2	1:L:298:ARG:HD3	2.45	0.52
1:R:418:VAL:HB	1:R:419:PRO:HD2	1.91	0.52
1:R:435:ASN:ND2	1:R:438:ILE:HG12	2.25	0.52
1:T:597:THR:O	1:T:597:THR:CG2	2.56	0.52
1:U:342:VAL:CG2	1:U:648:ILE:HD12	2.39	0.52
1:V:234:TRP:CE2	1:V:298:ARG:HD3	2.45	0.52
1:W:319:GLN:HB2	1:W:675:THR:HG23	1.91	0.52
1:W:342:VAL:CG2	1:W:648:ILE:HD12	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:597:THR:O	1:W:597:THR:CG2	2.56	0.52
1:Y:508:TYR:C	1:Y:508:TYR:CD2	2.88	0.52
1:f:295:ASP:OD2	1:f:298:ARG:NH1	2.42	0.52
1:f:508:TYR:C	1:f:508:TYR:CD2	2.88	0.52
1:h:295:ASP:OD2	1:h:298:ARG:NH1	2.42	0.52
1:j:319:GLN:HB2	1:j:675:THR:HG23	1.91	0.52
1:j:435:ASN:ND2	1:j:438:ILE:HG12	2.25	0.52
1:l:418:VAL:HB	1:l:419:PRO:HD2	1.91	0.52
1:m:597:THR:O	1:m:597:THR:CG2	2.56	0.52
1:q:342:VAL:CG2	1:q:648:ILE:HD12	2.39	0.52
1:t:295:ASP:OD2	1:t:298:ARG:NH1	2.42	0.52
1:w:295:ASP:OD2	1:w:298:ARG:NH1	2.42	0.52
1:x:421:HIS:CD2	1:x:421:HIS:C	2.88	0.52
1:1:295:ASP:OD2	1:1:298:ARG:NH1	2.42	0.52
1:2:508:TYR:C	1:2:508:TYR:CD2	2.88	0.52
1:4:234:TRP:CE2	1:4:298:ARG:HD3	2.45	0.52
1:4:295:ASP:OD2	1:4:298:ARG:NH1	2.42	0.52
1:6:319:GLN:HB2	1:6:675:THR:HG23	1.91	0.52
1:6:508:TYR:C	1:6:508:TYR:CD2	2.88	0.52
1:6:597:THR:O	1:6:597:THR:CG2	2.56	0.52
1:7:508:TYR:C	1:7:508:TYR:CD2	2.88	0.52
1:A:319:GLN:HB2	1:A:675:THR:HG23	1.91	0.52
1:E:252:TYR:OH	1:E:372:VAL:O	2.25	0.52
1:E:611:VAL:HG23	1:E:611:VAL:O	2.10	0.52
1:F:295:ASP:OD2	1:F:298:ARG:NH1	2.42	0.52
1:F:342:VAL:CG2	1:F:648:ILE:HD12	2.39	0.52
1:F:508:TYR:C	1:F:508:TYR:CD2	2.88	0.52
1:G:295:ASP:OD2	1:G:298:ARG:NH1	2.42	0.52
1:G:508:TYR:C	1:G:508:TYR:CD2	2.88	0.52
1:J:508:TYR:C	1:J:508:TYR:CD2	2.88	0.52
1:K:234:TRP:CE2	1:K:298:ARG:HD3	2.45	0.52
1:K:295:ASP:OD2	1:K:298:ARG:NH1	2.42	0.52
1:L:295:ASP:OD2	1:L:298:ARG:NH1	2.42	0.52
1:M:418:VAL:HB	1:M:419:PRO:HD2	1.91	0.52
1:N:342:VAL:CG2	1:N:648:ILE:HD12	2.39	0.52
1:P:319:GLN:HB2	1:P:675:THR:HG23	1.91	0.52
1:P:418:VAL:HB	1:P:419:PRO:HD2	1.91	0.52
1:P:611:VAL:HG23	1:P:611:VAL:O	2.10	0.52
1:Q:319:GLN:HB2	1:Q:675:THR:HG23	1.91	0.52
1:X:242:THR:HG22	1:X:681:GLU:CB	2.38	0.52
1:Y:221:VAL:O	1:4:404:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:342:VAL:CG2	1:Y:648:ILE:HD12	2.39	0.52
1:Y:421:HIS:C	1:Y:421:HIS:CD2	2.88	0.52
1:Z:404:ARG:NH1	1:a:221:VAL:O	2.43	0.52
1:b:295:ASP:OD2	1:b:298:ARG:NH1	2.42	0.52
1:b:508:TYR:C	1:b:508:TYR:CD2	2.88	0.52
1:c:234:TRP:CE2	1:c:298:ARG:HD3	2.44	0.52
1:j:611:VAL:HG23	1:j:611:VAL:O	2.10	0.52
1:k:421:HIS:CD2	1:k:421:HIS:C	2.88	0.52
1:l:421:HIS:C	1:l:421:HIS:CD2	2.88	0.52
1:m:421:HIS:C	1:m:421:HIS:CD2	2.88	0.52
1:o:242:THR:HG22	1:o:681:GLU:CB	2.38	0.52
1:o:418:VAL:HB	1:o:419:PRO:HD2	1.91	0.52
1:p:508:TYR:C	1:p:508:TYR:CD2	2.88	0.52
1:q:435:ASN:ND2	1:q:438:ILE:HG12	2.25	0.52
1:w:611:VAL:O	1:w:611:VAL:HG23	2.10	0.52
1:x:319:GLN:HB2	1:x:675:THR:HG23	1.91	0.52
1:y:342:VAL:CG2	1:y:648:ILE:HD12	2.39	0.52
1:y:508:TYR:C	1:y:508:TYR:CD2	2.88	0.52
1:z:295:ASP:OD2	1:z:298:ARG:NH1	2.42	0.52
1:3:221:VAL:O	1:8:404:ARG:NH1	2.43	0.52
1:4:319:GLN:HB2	1:4:675:THR:HG23	1.91	0.52
1:4:342:VAL:CG2	1:4:648:ILE:HD12	2.39	0.52
1:5:295:ASP:OD2	1:5:298:ARG:NH1	2.42	0.52
1:7:342:VAL:CG2	1:7:648:ILE:HD12	2.39	0.52
1:7:421:HIS:C	1:7:421:HIS:CD2	2.88	0.52
1:B:295:ASP:OD2	1:B:298:ARG:NH1	2.42	0.52
1:C:421:HIS:CD2	1:C:421:HIS:C	2.88	0.52
1:C:611:VAL:HG23	1:C:611:VAL:O	2.10	0.52
1:G:221:VAL:O	1:W:404:ARG:NH1	2.43	0.52
1:H:435:ASN:ND2	1:H:438:ILE:HG12	2.25	0.52
1:K:342:VAL:CG2	1:K:648:ILE:HD12	2.39	0.52
1:K:404:ARG:NH1	1:7:221:VAL:O	2.43	0.52
1:L:421:HIS:CD2	1:L:421:HIS:C	2.88	0.52
1:N:319:GLN:HB2	1:N:675:THR:HG23	1.91	0.52
1:O:421:HIS:C	1:O:421:HIS:CD2	2.88	0.52
1:S:421:HIS:C	1:S:421:HIS:CD2	2.88	0.52
1:S:611:VAL:HG23	1:S:611:VAL:O	2.10	0.52
1:T:421:HIS:C	1:T:421:HIS:CD2	2.88	0.52
1:V:508:TYR:C	1:V:508:TYR:CD2	2.88	0.52
1:X:221:VAL:O	1:Y:404:ARG:NH1	2.43	0.52
1:d:508:TYR:CD2	1:d:508:TYR:C	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:435:ASN:ND2	1:f:438:ILE:HG12	2.25	0.52
1:f:611:VAL:HG23	1:f:611:VAL:O	2.10	0.52
1:g:421:HIS:CD2	1:g:421:HIS:C	2.88	0.52
1:i:342:VAL:CG2	1:i:648:ILE:HD12	2.39	0.52
1:j:221:VAL:O	1:x:404:ARG:NH1	2.43	0.52
1:l:693:ARG:NE	1:l:695:ASN:OD1	2.42	0.52
1:n:508:TYR:C	1:n:508:TYR:CD2	2.88	0.52
1:o:221:VAL:O	1:7:404:ARG:NH1	2.43	0.52
1:r:611:VAL:HG23	1:r:611:VAL:O	2.10	0.52
1:s:319:GLN:O	1:s:675:THR:N	2.37	0.52
1:s:342:VAL:CG2	1:s:648:ILE:HD12	2.39	0.52
1:t:221:VAL:O	1:6:404:ARG:NH1	2.43	0.52
1:t:508:TYR:C	1:t:508:TYR:CD2	2.88	0.52
1:u:252:TYR:OH	1:u:372:VAL:O	2.24	0.52
1:v:319:GLN:HB2	1:v:675:THR:HG23	1.91	0.52
1:y:295:ASP:OD2	1:y:298:ARG:NH1	2.42	0.52
1:z:435:ASN:ND2	1:z:438:ILE:HG12	2.25	0.52
1:5:404:ARG:NH1	1:8:221:VAL:O	2.43	0.52
1:A:421:HIS:CD2	1:A:421:HIS:C	2.88	0.52
1:C:506:THR:HG23	1:M:578:SER:O	2.11	0.52
1:D:295:ASP:OD2	1:D:298:ARG:NH1	2.42	0.52
1:H:404:ARG:NH1	1:Z:221:VAL:O	2.43	0.52
1:H:578:SER:O	1:W:506:THR:HG23	2.10	0.52
1:I:295:ASP:OD2	1:I:298:ARG:NH1	2.42	0.52
1:J:221:VAL:O	1:a:404:ARG:NH1	2.43	0.52
1:L:435:ASN:ND2	1:L:438:ILE:HG12	2.25	0.52
1:O:295:ASP:OD2	1:O:298:ARG:NH1	2.42	0.52
1:O:693:ARG:NE	1:O:695:ASN:OD1	2.42	0.52
1:P:221:VAL:O	1:Q:404:ARG:NH1	2.43	0.52
1:S:418:VAL:HB	1:S:419:PRO:HD2	1.91	0.52
1:T:435:ASN:ND2	1:T:438:ILE:HG12	2.25	0.52
1:W:448:THR:O	1:W:459:ARG:O	2.28	0.52
1:X:506:THR:HG23	1:e:578:SER:O	2.10	0.52
1:Y:435:ASN:ND2	1:Y:438:ILE:HG12	2.25	0.52
1:Z:353:VAL:N	1:Z:645:GLN:HE22	2.00	0.52
1:Z:508:TYR:C	1:Z:508:TYR:CD2	2.88	0.52
1:b:611:VAL:HG23	1:b:611:VAL:O	2.10	0.52
1:c:578:SER:O	1:o:506:THR:HG23	2.10	0.52
1:d:435:ASN:ND2	1:d:438:ILE:HG12	2.25	0.52
1:e:234:TRP:CE2	1:e:298:ARG:HD3	2.44	0.52
1:e:252:TYR:OH	1:e:372:VAL:O	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:448:THR:O	1:e:459:ARG:O	2.28	0.52
1:f:578:SER:O	1:h:506:THR:HG23	2.10	0.52
1:g:506:THR:HG23	1:h:578:SER:O	2.11	0.52
1:g:611:VAL:HG23	1:g:611:VAL:O	2.10	0.52
1:h:342:VAL:CG2	1:h:648:ILE:HD12	2.39	0.52
1:h:421:HIS:C	1:h:421:HIS:CD2	2.88	0.52
1:i:319:GLN:HB2	1:i:675:THR:HG23	1.91	0.52
1:j:508:TYR:C	1:j:508:TYR:CD2	2.88	0.52
1:l:295:ASP:OD2	1:l:298:ARG:NH1	2.42	0.52
1:m:435:ASN:ND2	1:m:438:ILE:HG12	2.25	0.52
1:q:469:ASP:OD1	1:q:469:ASP:N	2.39	0.52
1:r:418:VAL:HB	1:r:419:PRO:HD2	1.91	0.52
1:r:421:HIS:C	1:r:421:HIS:CD2	2.88	0.52
1:s:435:ASN:ND2	1:s:438:ILE:HG12	2.25	0.52
1:u:295:ASP:OD2	1:u:298:ARG:NH1	2.42	0.52
1:v:421:HIS:C	1:v:421:HIS:CD2	2.88	0.52
1:w:508:TYR:C	1:w:508:TYR:CD2	2.88	0.52
1:z:421:HIS:CD2	1:z:421:HIS:C	2.88	0.52
1:5:435:ASN:ND2	1:5:438:ILE:HG12	2.25	0.52
1:5:578:SER:O	1:6:506:THR:HG23	2.10	0.52
1:6:448:THR:O	1:6:459:ARG:O	2.28	0.52
1:7:435:ASN:ND2	1:7:438:ILE:HG12	2.25	0.52
1:8:353:VAL:N	1:8:645:GLN:HE22	2.00	0.52
1:8:508:TYR:C	1:8:508:TYR:CD2	2.88	0.52
1:D:578:SER:O	1:N:506:THR:HG23	2.10	0.51
1:E:379:THR:CG2	1:E:390:SER:HB3	2.41	0.51
1:E:508:TYR:C	1:E:508:TYR:CD2	2.88	0.51
1:G:448:THR:O	1:G:459:ARG:O	2.28	0.51
1:I:435:ASN:ND2	1:I:438:ILE:HG12	2.25	0.51
1:J:578:SER:O	1:L:506:THR:HG23	2.11	0.51
1:K:578:SER:O	1:a:506:THR:HG23	2.11	0.51
1:L:448:THR:O	1:L:459:ARG:O	2.28	0.51
1:M:421:HIS:CD2	1:M:421:HIS:C	2.88	0.51
1:M:506:THR:HG23	1:b:578:SER:O	2.10	0.51
1:O:506:THR:HG23	1:n:578:SER:O	2.10	0.51
1:O:578:SER:O	1:m:506:THR:HG23	2.11	0.51
1:P:234:TRP:CE2	1:P:298:ARG:HD3	2.45	0.51
1:P:508:TYR:C	1:P:508:TYR:CD2	2.88	0.51
1:S:578:SER:O	1:U:506:THR:HG23	2.11	0.51
1:T:506:THR:HG23	1:l:578:SER:O	2.11	0.51
1:U:221:VAL:O	1:e:404:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:234:TRP:CE2	1:U:298:ARG:HD3	2.45	0.51
1:U:379:THR:CG2	1:U:390:SER:HB3	2.41	0.51
1:U:435:ASN:ND2	1:U:438:ILE:HG12	2.25	0.51
1:X:448:THR:O	1:X:459:ARG:O	2.28	0.51
1:X:508:TYR:C	1:X:508:TYR:CD2	2.88	0.51
1:Z:506:THR:HG23	1:3:578:SER:O	2.10	0.51
1:a:242:THR:HG22	1:a:681:GLU:CB	2.38	0.51
1:b:435:ASN:ND2	1:b:438:ILE:HG12	2.25	0.51
1:c:252:TYR:OH	1:c:372:VAL:O	2.24	0.51
1:c:404:ARG:NH1	1:s:221:VAL:O	2.43	0.51
1:c:448:THR:O	1:c:459:ARG:O	2.28	0.51
1:d:578:SER:O	1:l:506:THR:HG23	2.10	0.51
1:h:221:VAL:O	1:i:404:ARG:NH1	2.43	0.51
1:j:234:TRP:CE2	1:j:298:ARG:HD3	2.45	0.51
1:k:295:ASP:OD2	1:k:298:ARG:NH1	2.42	0.51
1:n:435:ASN:ND2	1:n:438:ILE:HG12	2.25	0.51
1:o:448:THR:O	1:o:459:ARG:O	2.28	0.51
1:o:508:TYR:C	1:o:508:TYR:CD2	2.88	0.51
1:s:379:THR:CG2	1:s:390:SER:HB3	2.41	0.51
1:t:506:THR:HG23	1:v:578:SER:O	2.10	0.51
1:w:379:THR:CG2	1:w:390:SER:HB3	2.41	0.51
1:z:448:THR:O	1:z:459:ARG:O	2.28	0.51
1:2:221:VAL:O	1:3:404:ARG:NH1	2.43	0.51
1:3:506:THR:HG23	1:4:578:SER:O	2.11	0.51
1:A:578:SER:O	1:G:506:THR:HG23	2.10	0.51
1:E:578:SER:O	1:Q:506:THR:HG23	2.11	0.51
1:F:234:TRP:CE2	1:F:298:ARG:HD3	2.44	0.51
1:H:508:TYR:C	1:H:508:TYR:CD2	2.88	0.51
1:I:252:TYR:OH	1:I:372:VAL:O	2.24	0.51
1:L:319:GLN:HB2	1:L:675:THR:HG23	1.91	0.51
1:M:221:VAL:O	1:N:404:ARG:NH1	2.43	0.51
1:M:342:VAL:CG2	1:M:648:ILE:HD12	2.39	0.51
1:M:404:ARG:NH1	1:c:221:VAL:O	2.43	0.51
1:R:469:ASP:OD1	1:R:469:ASP:N	2.39	0.51
1:R:506:THR:HG23	1:U:578:SER:O	2.11	0.51
1:S:448:THR:O	1:S:459:ARG:O	2.28	0.51
1:U:448:THR:O	1:U:459:ARG:O	2.28	0.51
1:Y:234:TRP:CE2	1:Y:298:ARG:HD3	2.45	0.51
1:Y:448:THR:O	1:Y:459:ARG:O	2.28	0.51
1:Z:379:THR:CG2	1:Z:390:SER:HB3	2.41	0.51
1:a:448:THR:O	1:a:459:ARG:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:578:SER:O	1:8:506:THR:HG23	2.10	0.51
1:b:448:THR:O	1:b:459:ARG:O	2.28	0.51
1:c:506:THR:HG23	1:p:578:SER:O	2.11	0.51
1:f:232:SER:HB2	1:f:295:ASP:OD1	2.11	0.51
1:i:506:THR:HG23	1:k:578:SER:O	2.10	0.51
1:q:506:THR:HG23	1:s:578:SER:O	2.11	0.51
1:r:448:THR:O	1:r:459:ARG:O	2.28	0.51
1:r:578:SER:O	1:s:506:THR:HG23	2.11	0.51
1:s:234:TRP:CE2	1:s:298:ARG:HD3	2.45	0.51
1:t:448:THR:O	1:t:459:ARG:O	2.28	0.51
1:u:435:ASN:ND2	1:u:438:ILE:HG12	2.25	0.51
1:v:418:VAL:HB	1:v:419:PRO:HD2	1.91	0.51
1:w:578:SER:O	1:x:506:THR:HG23	2.11	0.51
1:y:234:TRP:CE2	1:y:298:ARG:HD3	2.44	0.51
1:z:319:GLN:HB2	1:z:675:THR:HG23	1.91	0.51
1:z:506:THR:HG23	1:2:578:SER:O	2.11	0.51
1:3:242:THR:HG22	1:3:681:GLU:CB	2.38	0.51
1:3:448:THR:O	1:3:459:ARG:O	2.28	0.51
1:4:448:THR:O	1:4:459:ARG:O	2.28	0.51
1:5:508:TYR:C	1:5:508:TYR:CD2	2.88	0.51
1:7:448:THR:O	1:7:459:ARG:O	2.28	0.51
1:A:353:VAL:N	1:A:645:GLN:HE22	2.00	0.51
1:A:418:VAL:HB	1:A:419:PRO:HD2	1.91	0.51
1:A:508:TYR:CD2	1:A:508:TYR:C	2.88	0.51
1:F:379:THR:CG2	1:F:390:SER:HB3	2.41	0.51
1:H:379:THR:CG2	1:H:390:SER:HB3	2.41	0.51
1:K:448:THR:O	1:K:459:ARG:O	2.28	0.51
1:R:234:TRP:CE2	1:R:298:ARG:HD3	2.45	0.51
1:R:508:TYR:C	1:R:508:TYR:CD2	2.88	0.51
1:V:404:ARG:NH1	1:W:221:VAL:O	2.43	0.51
1:V:578:SER:O	1:e:506:THR:HG23	2.11	0.51
1:Y:611:VAL:O	1:Y:611:VAL:HG23	2.10	0.51
1:a:232:SER:HB2	1:a:295:ASP:OD1	2.11	0.51
1:a:435:ASN:ND2	1:a:438:ILE:HG12	2.25	0.51
1:b:232:SER:HB2	1:b:295:ASP:OD1	2.11	0.51
1:c:508:TYR:C	1:c:508:TYR:CD2	2.88	0.51
1:e:221:VAL:O	1:h:404:ARG:NH1	2.43	0.51
1:f:448:THR:O	1:f:459:ARG:O	2.28	0.51
1:g:319:GLN:HB2	1:g:675:THR:HG23	1.91	0.51
1:q:448:THR:O	1:q:459:ARG:O	2.28	0.51
1:s:448:THR:O	1:s:459:ARG:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:379:THR:CG2	1:y:390:SER:HB3	2.41	0.51
1:3:232:SER:HB2	1:3:295:ASP:OD1	2.11	0.51
1:8:379:THR:CG2	1:8:390:SER:HB3	2.41	0.51
1:B:418:VAL:HB	1:B:419:PRO:HD2	1.91	0.51
1:C:319:GLN:HB2	1:C:675:THR:HG23	1.91	0.51
1:C:578:SER:O	1:b:506:THR:HG23	2.11	0.51
1:D:506:THR:HG23	1:P:578:SER:O	2.10	0.51
1:F:448:THR:O	1:F:459:ARG:O	2.28	0.51
1:F:506:THR:HG23	1:Q:578:SER:O	2.11	0.51
1:H:421:HIS:C	1:H:421:HIS:CD2	2.88	0.51
1:L:508:TYR:C	1:L:508:TYR:CD2	2.88	0.51
1:M:435:ASN:ND2	1:M:438:ILE:HG12	2.25	0.51
1:O:234:TRP:CE2	1:O:298:ARG:HD3	2.44	0.51
1:O:404:ARG:NH1	1:d:221:VAL:O	2.43	0.51
1:Q:234:TRP:CE2	1:Q:298:ARG:HD3	2.45	0.51
1:Q:508:TYR:C	1:Q:508:TYR:CD2	2.88	0.51
1:R:319:GLN:HB2	1:R:675:THR:HG23	1.91	0.51
1:R:448:THR:O	1:R:459:ARG:O	2.28	0.51
1:Z:319:GLN:HB2	1:Z:675:THR:HG23	1.91	0.51
1:Z:435:ASN:ND2	1:Z:438:ILE:HG12	2.25	0.51
1:b:421:HIS:CD2	1:b:421:HIS:C	2.88	0.51
1:e:508:TYR:C	1:e:508:TYR:CD2	2.88	0.51
1:g:379:THR:CG2	1:g:390:SER:HB3	2.41	0.51
1:g:435:ASN:ND2	1:g:438:ILE:HG12	2.25	0.51
1:h:435:ASN:ND2	1:h:438:ILE:HG12	2.25	0.51
1:i:448:THR:O	1:i:459:ARG:O	2.28	0.51
1:j:379:THR:CG2	1:j:390:SER:HB3	2.41	0.51
1:j:578:SER:O	1:k:506:THR:HG23	2.10	0.51
1:l:404:ARG:NH1	1:n:221:VAL:O	2.43	0.51
1:n:611:VAL:HG23	1:n:611:VAL:O	2.10	0.51
1:p:404:ARG:NH1	1:6:221:VAL:O	2.43	0.51
1:q:221:VAL:O	1:y:404:ARG:NH1	2.43	0.51
1:q:232:SER:HB2	1:q:295:ASP:OD1	2.11	0.51
1:q:319:GLN:HB2	1:q:675:THR:HG23	1.91	0.51
1:q:508:TYR:C	1:q:508:TYR:CD2	2.88	0.51
1:t:611:VAL:O	1:t:611:VAL:HG23	2.10	0.51
1:v:353:VAL:N	1:v:645:GLN:HE22	2.00	0.51
1:v:508:TYR:C	1:v:508:TYR:CD2	2.88	0.51
1:x:508:TYR:C	1:x:508:TYR:CD2	2.88	0.51
1:x:578:SER:O	1:y:506:THR:HG23	2.11	0.51
1:z:508:TYR:C	1:z:508:TYR:CD2	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:418:VAL:HB	1:1:419:PRO:HD2	1.91	0.51
1:1:435:ASN:ND2	1:1:438:ILE:HG12	2.25	0.51
1:3:435:ASN:ND2	1:3:438:ILE:HG12	2.25	0.51
1:4:379:THR:CG2	1:4:390:SER:HB3	2.41	0.51
1:5:379:THR:CG2	1:5:390:SER:HB3	2.41	0.51
1:6:379:THR:CG2	1:6:390:SER:HB3	2.41	0.51
1:7:234:TRP:CE2	1:7:298:ARG:HD3	2.45	0.51
1:7:611:VAL:HG23	1:7:611:VAL:O	2.10	0.51
1:8:435:ASN:ND2	1:8:438:ILE:HG12	2.25	0.51
1:8:448:THR:O	1:8:459:ARG:O	2.28	0.51
1:B:508:TYR:C	1:B:508:TYR:CD2	2.88	0.51
1:C:379:THR:CG2	1:C:390:SER:HB3	2.41	0.51
1:E:319:GLN:HB2	1:E:675:THR:HG23	1.91	0.51
1:E:448:THR:O	1:E:459:ARG:O	2.28	0.51
1:F:404:ARG:NH1	1:R:221:VAL:O	2.43	0.51
1:G:611:VAL:HG23	1:G:611:VAL:O	2.10	0.51
1:J:435:ASN:ND2	1:J:438:ILE:HG12	2.25	0.51
1:K:379:THR:CG2	1:K:390:SER:HB3	2.41	0.51
1:N:448:THR:O	1:N:459:ARG:O	2.28	0.51
1:P:379:THR:CG2	1:P:390:SER:HB3	2.41	0.51
1:R:232:SER:HB2	1:R:295:ASP:OD1	2.11	0.51
1:R:611:VAL:HG23	1:R:611:VAL:O	2.10	0.51
1:T:379:THR:CG2	1:T:390:SER:HB3	2.41	0.51
1:W:232:SER:HB2	1:W:295:ASP:OD1	2.11	0.51
1:W:379:THR:CG2	1:W:390:SER:HB3	2.41	0.51
1:X:232:SER:HB2	1:X:295:ASP:OD1	2.11	0.51
1:Y:319:GLN:HB2	1:Y:675:THR:HG23	1.91	0.51
1:Z:448:THR:O	1:Z:459:ARG:O	2.28	0.51
1:d:418:VAL:HB	1:d:419:PRO:HD2	1.91	0.51
1:d:611:VAL:O	1:d:611:VAL:HG23	2.10	0.51
1:f:506:THR:HG23	1:g:578:SER:O	2.11	0.51
1:l:234:TRP:CE2	1:l:298:ARG:HD3	2.44	0.51
1:m:379:THR:CG2	1:m:390:SER:HB3	2.41	0.51
1:n:232:SER:HB2	1:n:295:ASP:OD1	2.11	0.51
1:o:232:SER:HB2	1:o:295:ASP:OD1	2.11	0.51
1:q:234:TRP:CE2	1:q:298:ARG:HD3	2.45	0.51
1:q:578:SER:O	1:r:506:THR:HG23	2.11	0.51
1:q:611:VAL:HG23	1:q:611:VAL:O	2.10	0.51
1:v:404:ARG:NH1	1:1:221:VAL:O	2.43	0.51
1:w:448:THR:O	1:w:459:ARG:O	2.28	0.51
1:x:232:SER:HB2	1:x:295:ASP:OD1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:611:VAL:HG23	1:x:611:VAL:O	2.10	0.51
1:y:448:THR:O	1:y:459:ARG:O	2.28	0.51
1:z:353:VAL:N	1:z:645:GLN:NE2	2.50	0.51
1:2:435:ASN:ND2	1:2:438:ILE:HG12	2.25	0.51
1:5:421:HIS:C	1:5:421:HIS:CD2	2.88	0.51
1:8:319:GLN:HB2	1:8:675:THR:HG23	1.91	0.51
1:A:404:ARG:NH1	1:B:221:VAL:O	2.43	0.51
1:A:611:VAL:O	1:A:611:VAL:HG23	2.10	0.51
1:B:319:GLN:HB2	1:B:675:THR:HG23	1.91	0.51
1:B:379:THR:CG2	1:B:390:SER:HB3	2.41	0.51
1:B:435:ASN:ND2	1:B:438:ILE:HG12	2.25	0.51
1:B:448:THR:O	1:B:459:ARG:O	2.28	0.51
1:B:510:LEU:HD21	1:L:567:THR:O	2.11	0.51
1:C:435:ASN:ND2	1:C:438:ILE:HG12	2.25	0.51
1:F:611:VAL:O	1:F:611:VAL:HG23	2.10	0.51
1:G:319:GLN:HB2	1:G:675:THR:HG23	1.91	0.51
1:I:508:TYR:C	1:I:508:TYR:CD2	2.88	0.51
1:J:319:GLN:HB2	1:J:675:THR:HG23	1.91	0.51
1:J:567:THR:O	1:L:510:LEU:HD21	2.11	0.51
1:L:353:VAL:N	1:L:645:GLN:NE2	2.50	0.51
1:M:448:THR:O	1:M:459:ARG:O	2.28	0.51
1:Q:232:SER:HB2	1:Q:295:ASP:OD1	2.11	0.51
1:Q:611:VAL:O	1:Q:611:VAL:HG23	2.10	0.51
1:R:578:SER:O	1:S:506:THR:HG23	2.11	0.51
1:V:379:THR:CG2	1:V:390:SER:HB3	2.41	0.51
1:Y:232:SER:HB2	1:Y:295:ASP:OD1	2.11	0.51
1:b:234:TRP:CE2	1:b:298:ARG:HD3	2.44	0.51
1:b:379:THR:CG2	1:b:390:SER:HB3	2.41	0.51
1:d:232:SER:HB2	1:d:295:ASP:OD1	2.11	0.51
1:f:379:THR:CG2	1:f:390:SER:HB3	2.41	0.51
1:f:421:HIS:C	1:f:421:HIS:CD2	2.88	0.51
1:n:418:VAL:HB	1:n:419:PRO:HD2	1.91	0.51
1:o:435:ASN:ND2	1:o:438:ILE:HG12	2.25	0.51
1:s:508:TYR:C	1:s:508:TYR:CD2	2.88	0.51
1:t:319:GLN:HB2	1:t:675:THR:HG23	1.91	0.51
1:t:404:ARG:NH1	1:y:221:VAL:O	2.43	0.51
1:u:469:ASP:OD1	1:u:469:ASP:N	2.39	0.51
1:u:508:TYR:C	1:u:508:TYR:CD2	2.88	0.51
1:v:611:VAL:HG23	1:v:611:VAL:O	2.10	0.51
1:w:234:TRP:CE2	1:w:298:ARG:HD3	2.44	0.51
1:w:319:GLN:HB2	1:w:675:THR:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:506:THR:HG23	1:y:578:SER:O	2.10	0.51
1:x:234:TRP:CE2	1:x:298:ARG:HD3	2.45	0.51
1:y:611:VAL:HG23	1:y:611:VAL:O	2.10	0.51
1:z:510:LEU:HD21	1:2:567:THR:O	2.11	0.51
1:z:567:THR:O	1:1:510:LEU:HD21	2.11	0.51
1:z:597:THR:O	1:z:597:THR:CG2	2.56	0.51
1:1:508:TYR:C	1:1:508:TYR:CD2	2.88	0.51
1:3:611:VAL:HG23	1:3:611:VAL:O	2.10	0.51
1:6:232:SER:HB2	1:6:295:ASP:OD1	2.11	0.51
1:D:611:VAL:HG23	1:D:611:VAL:O	2.10	0.51
1:D:694:TRP:CH2	1:M:366:PRO:HD3	2.46	0.51
1:E:234:TRP:CE2	1:E:298:ARG:HD3	2.44	0.51
1:E:506:THR:HG23	1:F:578:SER:O	2.10	0.51
1:F:221:VAL:O	1:G:404:ARG:NH1	2.43	0.51
1:G:567:THR:O	1:I:510:LEU:HD21	2.11	0.51
1:J:366:PRO:HD3	1:K:694:TRP:CH2	2.46	0.51
1:K:469:ASP:OD1	1:K:469:ASP:N	2.39	0.51
1:L:232:SER:HB2	1:L:295:ASP:OD1	2.11	0.51
1:M:510:LEU:HD21	1:b:567:THR:O	2.11	0.51
1:N:234:TRP:CE2	1:N:298:ARG:HD3	2.45	0.51
1:P:232:SER:HB2	1:P:295:ASP:OD1	2.11	0.51
1:Q:694:TRP:CH2	1:R:366:PRO:HD3	2.46	0.51
1:R:404:ARG:NH1	1:V:221:VAL:O	2.43	0.51
1:S:366:PRO:HD3	1:T:694:TRP:CH2	2.46	0.51
1:T:567:THR:O	1:d:510:LEU:HD21	2.11	0.51
1:U:508:TYR:C	1:U:508:TYR:CD2	2.88	0.51
1:W:694:TRP:CH2	1:X:366:PRO:HD3	2.46	0.51
1:X:435:ASN:ND2	1:X:438:ILE:HG12	2.25	0.51
1:a:508:TYR:C	1:a:508:TYR:CD2	2.88	0.51
1:a:611:VAL:O	1:a:611:VAL:HG23	2.10	0.51
1:f:510:LEU:HD21	1:g:567:THR:O	2.11	0.51
1:f:567:THR:O	1:h:510:LEU:HD21	2.11	0.51
1:g:221:VAL:O	1:1:404:ARG:NH1	2.43	0.51
1:h:366:PRO:HD3	1:k:694:TRP:CH2	2.46	0.51
1:h:448:THR:O	1:h:459:ARG:O	2.28	0.51
1:j:232:SER:HB2	1:j:295:ASP:OD1	2.11	0.51
1:k:611:VAL:HG23	1:k:611:VAL:O	2.10	0.51
1:m:567:THR:O	1:n:510:LEU:HD21	2.11	0.51
1:m:694:TRP:CH2	1:r:366:PRO:HD3	2.46	0.51
1:p:221:VAL:O	1:q:404:ARG:NH1	2.43	0.51
1:p:319:GLN:O	1:p:675:THR:N	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:379:THR:CG2	1:p:390:SER:HB3	2.41	0.51
1:q:366:PRO:HD3	1:x:694:TRP:CH2	2.46	0.51
1:r:232:SER:HB2	1:r:295:ASP:OD1	2.11	0.51
1:t:379:THR:CG2	1:t:390:SER:HB3	2.41	0.51
1:t:567:THR:O	1:u:510:LEU:HD21	2.11	0.51
1:v:232:SER:HB2	1:v:295:ASP:OD1	2.11	0.51
1:x:448:THR:O	1:x:459:ARG:O	2.28	0.51
1:z:232:SER:HB2	1:z:295:ASP:OD1	2.11	0.51
1:1:379:THR:CG2	1:1:390:SER:HB3	2.41	0.51
1:1:448:THR:O	1:1:459:ARG:O	2.28	0.51
1:2:319:GLN:HB2	1:2:675:THR:HG23	1.91	0.51
1:2:366:PRO:HD3	1:4:694:TRP:CH2	2.46	0.51
1:2:379:THR:CG2	1:2:390:SER:HB3	2.41	0.51
1:3:508:TYR:C	1:3:508:TYR:CD2	2.88	0.51
1:7:232:SER:HB2	1:7:295:ASP:OD1	2.11	0.51
1:7:319:GLN:HB2	1:7:675:THR:HG23	1.91	0.51
1:7:694:TRP:CH2	1:8:366:PRO:HD3	2.46	0.51
1:A:232:SER:HB2	1:A:295:ASP:OD1	2.11	0.51
1:B:404:ARG:NH1	1:C:221:VAL:O	2.43	0.51
1:C:508:TYR:C	1:C:508:TYR:CD2	2.88	0.51
1:C:567:THR:O	1:b:510:LEU:HD21	2.11	0.51
1:D:366:PRO:HD3	1:M:694:TRP:CH2	2.46	0.51
1:G:232:SER:HB2	1:G:295:ASP:OD1	2.11	0.51
1:G:379:THR:CG2	1:G:390:SER:HB3	2.41	0.51
1:H:611:VAL:HG23	1:H:611:VAL:O	2.10	0.51
1:J:379:THR:CG2	1:J:390:SER:HB3	2.41	0.51
1:K:421:HIS:CD2	1:K:421:HIS:C	2.88	0.51
1:L:597:THR:O	1:L:597:THR:CG2	2.56	0.51
1:L:611:VAL:HG23	1:L:611:VAL:O	2.10	0.51
1:O:379:THR:CG2	1:O:390:SER:HB3	2.41	0.51
1:O:510:LEU:HD21	1:n:567:THR:O	2.11	0.51
1:Q:366:PRO:HD3	1:R:694:TRP:CH2	2.46	0.51
1:Q:448:THR:O	1:Q:459:ARG:O	2.28	0.51
1:S:232:SER:HB2	1:S:295:ASP:OD1	2.11	0.51
1:T:232:SER:HB2	1:T:295:ASP:OD1	2.11	0.51
1:V:448:THR:O	1:V:459:ARG:O	2.28	0.51
1:V:506:THR:HG23	1:X:578:SER:O	2.11	0.51
1:Y:694:TRP:CH2	1:Z:366:PRO:HD3	2.46	0.51
1:d:366:PRO:HD3	1:n:694:TRP:CH2	2.46	0.51
1:d:567:THR:O	1:l:510:LEU:HD21	2.11	0.51
1:d:694:TRP:CH2	1:n:366:PRO:HD3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:234:TRP:CE2	1:f:298:ARG:HD3	2.44	0.51
1:h:234:TRP:CE2	1:h:298:ARG:HD3	2.44	0.51
1:h:246:THR:HG1	1:h:677:GLN:HE21	1.57	0.51
1:h:694:TRP:CH2	1:k:366:PRO:HD3	2.46	0.51
1:i:234:TRP:CE2	1:i:298:ARG:HD3	2.45	0.51
1:m:232:SER:HB2	1:m:295:ASP:OD1	2.11	0.51
1:n:421:HIS:C	1:n:421:HIS:CD2	2.88	0.51
1:o:366:PRO:HD3	1:6:694:TRP:CH2	2.46	0.51
1:p:421:HIS:CD2	1:p:421:HIS:C	2.88	0.51
1:v:379:THR:CG2	1:v:390:SER:HB3	2.41	0.51
1:z:611:VAL:HG23	1:z:611:VAL:O	2.10	0.51
1:1:319:GLN:HB2	1:1:675:THR:HG23	1.91	0.51
1:3:379:THR:CG2	1:3:390:SER:HB3	2.41	0.51
1:4:421:HIS:CD2	1:4:421:HIS:C	2.88	0.51
1:A:379:THR:CG2	1:A:390:SER:HB3	2.41	0.51
1:A:448:THR:O	1:A:459:ARG:O	2.28	0.51
1:B:252:TYR:OH	1:B:372:VAL:O	2.24	0.51
1:B:323:VAL:CG1	1:B:330:THR:HG23	2.41	0.51
1:B:578:SER:O	1:J:506:THR:HG23	2.11	0.51
1:C:448:THR:O	1:C:459:ARG:O	2.28	0.51
1:D:252:TYR:OH	1:D:372:VAL:O	2.25	0.51
1:E:694:TRP:CH2	1:P:366:PRO:HD3	2.46	0.51
1:I:469:ASP:OD1	1:I:469:ASP:N	2.39	0.51
1:N:232:SER:HB2	1:N:295:ASP:OD1	2.11	0.51
1:R:379:THR:CG2	1:R:390:SER:HB3	2.41	0.51
1:X:404:ARG:NH1	1:f:221:VAL:O	2.43	0.51
1:Z:611:VAL:HG23	1:Z:611:VAL:O	2.10	0.51
1:a:366:PRO:HD3	1:3:694:TRP:CH2	2.46	0.51
1:a:379:THR:CG2	1:a:390:SER:HB3	2.41	0.51
1:a:694:TRP:CH2	1:3:366:PRO:HD3	2.46	0.51
1:b:221:VAL:O	1:o:404:ARG:NH1	2.43	0.51
1:g:448:THR:O	1:g:459:ARG:O	2.28	0.51
1:g:508:TYR:C	1:g:508:TYR:CD2	2.88	0.51
1:h:319:GLN:HB2	1:h:675:THR:HG23	1.91	0.51
1:h:379:THR:CG2	1:h:390:SER:HB3	2.41	0.51
1:j:366:PRO:HD3	1:w:694:TRP:CH2	2.46	0.51
1:j:448:THR:O	1:j:459:ARG:O	2.28	0.51
1:k:252:TYR:OH	1:k:372:VAL:O	2.25	0.51
1:l:232:SER:HB2	1:l:295:ASP:OD1	2.11	0.51
1:o:578:SER:O	1:p:506:THR:HG23	2.11	0.51
1:p:448:THR:O	1:p:459:ARG:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:379:THR:CG2	1:q:390:SER:HB3	2.41	0.51
1:q:694:TRP:CH2	1:x:366:PRO:HD3	2.46	0.51
1:t:232:SER:HB2	1:t:295:ASP:OD1	2.11	0.51
1:1:232:SER:HB2	1:1:295:ASP:OD1	2.11	0.51
1:1:252:TYR:OH	1:1:372:VAL:O	2.24	0.51
1:1:323:VAL:CG1	1:1:330:THR:HG23	2.41	0.51
1:5:234:TRP:CE2	1:5:298:ARG:HD3	2.45	0.51
1:8:319:GLN:O	1:8:675:THR:N	2.37	0.51
1:8:611:VAL:HG23	1:8:611:VAL:O	2.10	0.51
1:B:232:SER:HB2	1:B:295:ASP:OD1	2.11	0.51
1:C:510:LEU:HD21	1:M:567:THR:O	2.11	0.51
1:D:232:SER:HB2	1:D:295:ASP:OD1	2.11	0.51
1:F:232:SER:HB2	1:F:295:ASP:OD1	2.11	0.51
1:H:234:TRP:CE2	1:H:298:ARG:HD3	2.45	0.51
1:I:323:VAL:CG1	1:I:330:THR:HG23	2.41	0.51
1:K:508:TYR:C	1:K:508:TYR:CD2	2.88	0.51
1:M:234:TRP:CE2	1:M:298:ARG:HD3	2.44	0.51
1:M:246:THR:HG1	1:M:677:GLN:HE21	1.57	0.51
1:O:221:VAL:O	1:P:404:ARG:NH1	2.43	0.51
1:O:232:SER:HB2	1:O:295:ASP:OD1	2.11	0.51
1:Q:221:VAL:O	1:S:404:ARG:NH1	2.43	0.51
1:Q:323:VAL:CG1	1:Q:330:THR:HG23	2.41	0.51
1:V:421:HIS:C	1:V:421:HIS:CD2	2.88	0.51
1:a:323:VAL:CG1	1:a:330:THR:HG23	2.41	0.51
1:c:379:THR:CG2	1:c:390:SER:HB3	2.41	0.51
1:c:567:THR:O	1:o:510:LEU:HD21	2.11	0.51
1:d:421:HIS:C	1:d:421:HIS:CD2	2.88	0.51
1:e:379:THR:CG2	1:e:390:SER:HB3	2.41	0.51
1:g:510:LEU:HD21	1:h:567:THR:O	2.11	0.51
1:i:232:SER:HB2	1:i:295:ASP:OD1	2.11	0.51
1:i:508:TYR:C	1:i:508:TYR:CD2	2.88	0.51
1:j:404:ARG:NH1	1:l:221:VAL:O	2.43	0.51
1:k:232:SER:HB2	1:k:295:ASP:OD1	2.11	0.51
1:l:379:THR:CG2	1:l:390:SER:HB3	2.41	0.51
1:l:508:TYR:C	1:l:508:TYR:CD2	2.88	0.51
1:p:298:ARG:NH2	1:s:689:GLU:OE2	2.44	0.51
1:r:404:ARG:NH1	1:x:221:VAL:O	2.43	0.51
1:r:508:TYR:C	1:r:508:TYR:CD2	2.88	0.51
1:u:323:VAL:CG1	1:u:330:THR:HG23	2.41	0.51
1:v:221:VAL:O	1:w:404:ARG:NH1	2.43	0.51
1:v:448:THR:O	1:v:459:ARG:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:323:VAL:CG1	1:3:330:THR:HG23	2.41	0.51
1:4:469:ASP:OD1	1:4:469:ASP:N	2.39	0.51
1:5:506:THR:HG23	1:7:578:SER:O	2.10	0.51
1:5:611:VAL:HG23	1:5:611:VAL:O	2.10	0.51
1:A:567:THR:O	1:G:510:LEU:HD21	2.11	0.50
1:B:421:HIS:C	1:B:421:HIS:CD2	2.88	0.50
1:C:404:ARG:NH1	1:D:221:VAL:O	2.43	0.50
1:H:506:THR:HG23	1:Y:578:SER:O	2.10	0.50
1:I:448:THR:O	1:I:459:ARG:O	2.28	0.50
1:I:611:VAL:O	1:I:611:VAL:HG23	2.10	0.50
1:J:694:TRP:CH2	1:K:366:PRO:HD3	2.46	0.50
1:M:319:GLN:HB2	1:M:675:THR:HG23	1.91	0.50
1:M:323:VAL:CG1	1:M:330:THR:HG23	2.41	0.50
1:M:379:THR:CG2	1:M:390:SER:HB3	2.41	0.50
1:N:508:TYR:C	1:N:508:TYR:CD2	2.88	0.50
1:O:508:TYR:C	1:O:508:TYR:CD2	2.88	0.50
1:P:448:THR:O	1:P:459:ARG:O	2.28	0.50
1:U:689:GLU:OE2	1:V:298:ARG:NH2	2.44	0.50
1:V:319:GLN:O	1:V:675:THR:N	2.37	0.50
1:X:510:LEU:HD21	1:e:567:THR:O	2.11	0.50
1:Z:510:LEU:HD21	1:3:567:THR:O	2.11	0.50
1:a:567:THR:O	1:8:510:LEU:HD21	2.11	0.50
1:b:323:VAL:CG1	1:b:330:THR:HG23	2.41	0.50
1:f:319:GLN:HB2	1:f:675:THR:HG23	1.91	0.50
1:f:323:VAL:CG1	1:f:330:THR:HG23	2.41	0.50
1:g:404:ARG:NH1	1:k:221:VAL:O	2.43	0.50
1:h:323:VAL:CG1	1:h:330:THR:HG23	2.41	0.50
1:u:379:THR:CG2	1:u:390:SER:HB3	2.41	0.50
1:u:448:THR:O	1:u:459:ARG:O	2.28	0.50
1:u:694:TRP:CH2	1:1:366:PRO:HD3	2.46	0.50
1:x:323:VAL:CG1	1:x:330:THR:HG23	2.41	0.50
1:y:232:SER:HB2	1:y:295:ASP:OD1	2.11	0.50
1:1:469:ASP:OD1	1:1:469:ASP:N	2.39	0.50
1:1:578:SER:O	1:2:506:THR:HG23	2.11	0.50
1:5:319:GLN:HB2	1:5:675:THR:HG23	1.91	0.50
1:6:578:SER:O	1:7:506:THR:HG23	2.10	0.50
1:7:469:ASP:OD1	1:7:469:ASP:N	2.39	0.50
1:8:232:SER:HB2	1:8:295:ASP:OD1	2.11	0.50
1:A:221:VAL:O	1:E:404:ARG:NH1	2.43	0.50
1:A:510:LEU:HD21	1:I:567:THR:O	2.11	0.50
1:B:366:PRO:HD3	1:I:694:TRP:CH2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:510:LEU:HD21	1:Q:567:THR:O	2.11	0.50
1:G:694:TRP:CH2	1:H:366:PRO:HD3	2.46	0.50
1:I:379:THR:CG2	1:I:390:SER:HB3	2.41	0.50
1:M:611:VAL:HG23	1:M:611:VAL:O	2.10	0.50
1:O:323:VAL:CG1	1:O:330:THR:HG23	2.41	0.50
1:S:323:VAL:CG1	1:S:330:THR:HG23	2.41	0.50
1:S:508:TYR:C	1:S:508:TYR:CD2	2.88	0.50
1:S:567:THR:O	1:U:510:LEU:HD21	2.11	0.50
1:T:508:TYR:C	1:T:508:TYR:CD2	2.88	0.50
1:Y:323:VAL:CG1	1:Y:330:THR:HG23	2.41	0.50
1:Y:366:PRO:HD3	1:Z:694:TRP:CH2	2.46	0.50
1:Z:232:SER:HB2	1:Z:295:ASP:OD1	2.11	0.50
1:b:366:PRO:HD3	1:c:694:TRP:CH2	2.46	0.50
1:e:366:PRO:HD3	1:f:694:TRP:CH2	2.46	0.50
1:e:694:TRP:CH2	1:f:366:PRO:HD3	2.46	0.50
1:h:611:VAL:HG23	1:h:611:VAL:O	2.10	0.50
1:j:567:THR:O	1:k:510:LEU:HD21	2.11	0.50
1:t:510:LEU:HD21	1:v:567:THR:O	2.11	0.50
1:u:611:VAL:HG23	1:u:611:VAL:O	2.10	0.50
1:v:252:TYR:OH	1:v:372:VAL:O	2.24	0.50
1:x:567:THR:O	1:y:510:LEU:HD21	2.11	0.50
1:y:323:VAL:CG1	1:y:330:THR:HG23	2.41	0.50
1:2:694:TRP:CH2	1:4:366:PRO:HD3	2.46	0.50
1:4:508:TYR:C	1:4:508:TYR:CD2	2.88	0.50
1:5:323:VAL:CG1	1:5:330:THR:HG23	2.41	0.50
1:5:448:THR:O	1:5:459:ARG:O	2.28	0.50
1:7:323:VAL:CG1	1:7:330:THR:HG23	2.41	0.50
1:B:469:ASP:OD1	1:B:469:ASP:N	2.39	0.50
1:D:508:TYR:C	1:D:508:TYR:CD2	2.88	0.50
1:D:510:LEU:HD21	1:P:567:THR:O	2.11	0.50
1:E:319:GLN:O	1:E:675:THR:N	2.37	0.50
1:E:567:THR:O	1:Q:510:LEU:HD21	2.11	0.50
1:F:323:VAL:CG1	1:F:330:THR:HG23	2.41	0.50
1:G:578:SER:O	1:I:506:THR:HG23	2.11	0.50
1:H:221:VAL:O	1:I:404:ARG:NH1	2.43	0.50
1:H:319:GLN:HB2	1:H:675:THR:HG23	1.91	0.50
1:H:323:VAL:CG1	1:H:330:THR:HG23	2.41	0.50
1:H:567:THR:O	1:W:510:LEU:HD21	2.11	0.50
1:K:510:LEU:HD21	1:8:567:THR:O	2.11	0.50
1:L:323:VAL:CG1	1:L:330:THR:HG23	2.41	0.50
1:M:469:ASP:OD1	1:M:469:ASP:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:379:THR:CG2	1:N:390:SER:HB3	2.41	0.50
1:Q:379:THR:CG2	1:Q:390:SER:HB3	2.41	0.50
1:S:694:TRP:CH2	1:T:366:PRO:HD3	2.46	0.50
1:U:421:HIS:CD2	1:U:421:HIS:C	2.88	0.50
1:W:234:TRP:CE2	1:W:298:ARG:HD3	2.45	0.50
1:W:578:SER:O	1:Y:506:THR:HG23	2.10	0.50
1:W:611:VAL:HG23	1:W:611:VAL:O	2.10	0.50
1:X:611:VAL:HG23	1:X:611:VAL:O	2.10	0.50
1:Y:469:ASP:OD1	1:Y:469:ASP:N	2.39	0.50
1:Z:319:GLN:O	1:Z:675:THR:N	2.37	0.50
1:b:319:GLN:HB2	1:b:675:THR:HG23	1.91	0.50
1:b:694:TRP:CH2	1:c:366:PRO:HD3	2.46	0.50
1:c:421:HIS:C	1:c:421:HIS:CD2	2.88	0.50
1:g:694:TRP:CH2	1:z:366:PRO:HD3	2.46	0.50
1:i:379:THR:CG2	1:i:390:SER:HB3	2.41	0.50
1:l:323:VAL:CG1	1:l:330:THR:HG23	2.41	0.50
1:l:611:VAL:O	1:l:611:VAL:HG23	2.10	0.50
1:m:323:VAL:CG1	1:m:330:THR:HG23	2.41	0.50
1:m:448:THR:O	1:m:459:ARG:O	2.28	0.50
1:m:508:TYR:C	1:m:508:TYR:CD2	2.88	0.50
1:o:421:HIS:C	1:o:421:HIS:CD2	2.88	0.50
1:r:323:VAL:CG1	1:r:330:THR:HG23	2.41	0.50
1:w:421:HIS:C	1:w:421:HIS:CD2	2.88	0.50
1:x:379:THR:CG2	1:x:390:SER:HB3	2.41	0.50
1:1:319:GLN:O	1:1:675:THR:N	2.37	0.50
1:1:421:HIS:C	1:1:421:HIS:CD2	2.88	0.50
1:1:567:THR:O	1:2:510:LEU:HD21	2.11	0.50
1:3:421:HIS:C	1:3:421:HIS:CD2	2.88	0.50
1:4:232:SER:HB2	1:4:295:ASP:OD1	2.11	0.50
1:7:379:THR:CG2	1:7:390:SER:HB3	2.41	0.50
1:E:421:HIS:C	1:E:421:HIS:CD2	2.88	0.50
1:H:448:THR:O	1:H:459:ARG:O	2.28	0.50
1:K:611:VAL:HG23	1:K:611:VAL:O	2.10	0.50
1:L:221:VAL:O	1:b:404:ARG:NH1	2.43	0.50
1:N:611:VAL:O	1:N:611:VAL:HG23	2.10	0.50
1:T:323:VAL:CG1	1:T:330:THR:HG23	2.41	0.50
1:T:448:THR:O	1:T:459:ARG:O	2.28	0.50
1:X:421:HIS:C	1:X:421:HIS:CD2	2.88	0.50
1:Z:567:THR:O	1:4:510:LEU:HD21	2.11	0.50
1:c:323:VAL:CG1	1:c:330:THR:HG23	2.41	0.50
1:c:611:VAL:HG23	1:c:611:VAL:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:323:VAL:CG1	1:e:330:THR:HG23	2.41	0.50
1:e:421:HIS:C	1:e:421:HIS:CD2	2.88	0.50
1:e:611:VAL:HG23	1:e:611:VAL:O	2.10	0.50
1:g:232:SER:HB2	1:g:295:ASP:OD1	2.11	0.50
1:g:366:PRO:HD3	1:z:694:TRP:CH2	2.46	0.50
1:h:469:ASP:OD1	1:h:469:ASP:N	2.39	0.50
1:i:611:VAL:O	1:i:611:VAL:HG23	2.10	0.50
1:m:366:PRO:HD3	1:r:694:TRP:CH2	2.46	0.50
1:m:578:SER:O	1:n:506:THR:HG23	2.11	0.50
1:r:567:THR:O	1:s:510:LEU:HD21	2.11	0.50
1:t:694:TRP:CH2	1:5:366:PRO:HD3	2.46	0.50
1:u:404:ARG:NH1	1:5:221:VAL:O	2.43	0.50
1:u:567:THR:O	1:v:510:LEU:HD21	2.11	0.50
1:u:578:SER:O	1:v:506:THR:HG23	2.11	0.50
1:w:319:GLN:O	1:w:675:THR:N	2.37	0.50
1:z:323:VAL:CG1	1:z:330:THR:HG23	2.41	0.50
1:2:448:THR:O	1:2:459:ARG:O	2.28	0.50
1:7:366:PRO:HD3	1:8:694:TRP:CH2	2.46	0.50
1:A:252:TYR:OH	1:A:372:VAL:O	2.24	0.50
1:A:506:THR:HG23	1:I:578:SER:O	2.11	0.50
1:B:567:THR:O	1:J:510:LEU:HD21	2.11	0.50
1:C:232:SER:HB2	1:C:295:ASP:OD1	2.11	0.50
1:C:323:VAL:CG1	1:C:330:THR:HG23	2.41	0.50
1:C:694:TRP:CH2	1:L:366:PRO:HD3	2.46	0.50
1:D:323:VAL:CG1	1:D:330:THR:HG23	2.41	0.50
1:D:379:THR:CG2	1:D:390:SER:HB3	2.41	0.50
1:D:448:THR:O	1:D:459:ARG:O	2.28	0.50
1:E:366:PRO:HD3	1:P:694:TRP:CH2	2.46	0.50
1:I:232:SER:HB2	1:I:295:ASP:OD1	2.11	0.50
1:J:448:THR:O	1:J:459:ARG:O	2.28	0.50
1:K:232:SER:HB2	1:K:295:ASP:OD1	2.11	0.50
1:N:578:SER:O	1:P:506:THR:HG23	2.10	0.50
1:O:611:VAL:HG23	1:O:611:VAL:O	2.10	0.50
1:P:323:VAL:CG1	1:P:330:THR:HG23	2.41	0.50
1:R:421:HIS:C	1:R:421:HIS:CD2	2.88	0.50
1:W:567:THR:O	1:Y:510:LEU:HD21	2.11	0.50
1:Y:379:THR:CG2	1:Y:390:SER:HB3	2.41	0.50
1:Z:578:SER:O	1:4:506:THR:HG23	2.11	0.50
1:a:421:HIS:C	1:a:421:HIS:CD2	2.88	0.50
1:c:232:SER:HB2	1:c:295:ASP:OD1	2.11	0.50
1:d:448:THR:O	1:d:459:ARG:O	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:232:SER:HB2	1:e:295:ASP:OD1	2.11	0.50
1:g:323:VAL:CG1	1:g:330:THR:HG23	2.41	0.50
1:i:366:PRO:HD3	1:l:694:TRP:CH2	2.46	0.50
1:j:694:TRP:CH2	1:w:366:PRO:HD3	2.46	0.50
1:k:508:TYR:C	1:k:508:TYR:CD2	2.88	0.50
1:m:689:GLU:OE2	1:r:298:ARG:NH2	2.44	0.50
1:o:379:THR:CG2	1:o:390:SER:HB3	2.41	0.50
1:o:611:VAL:HG23	1:o:611:VAL:O	2.10	0.50
1:q:510:LEU:HD21	1:s:567:THR:O	2.11	0.50
1:s:421:HIS:C	1:s:421:HIS:CD2	2.88	0.50
1:t:578:SER:O	1:u:506:THR:HG23	2.11	0.50
1:u:232:SER:HB2	1:u:295:ASP:OD1	2.11	0.50
1:w:567:THR:O	1:x:510:LEU:HD21	2.11	0.50
1:2:232:SER:HB2	1:2:295:ASP:OD1	2.11	0.50
1:4:611:VAL:HG23	1:4:611:VAL:O	2.10	0.50
1:5:567:THR:O	1:6:510:LEU:HD21	2.11	0.50
1:6:234:TRP:CE2	1:6:298:ARG:HD3	2.45	0.50
1:6:567:THR:O	1:7:510:LEU:HD21	2.11	0.50
1:6:611:VAL:O	1:6:611:VAL:HG23	2.10	0.50
1:A:366:PRO:HD3	1:F:694:TRP:CH2	2.46	0.50
1:B:319:GLN:O	1:B:675:THR:N	2.37	0.50
1:B:506:THR:HG23	1:L:578:SER:O	2.11	0.50
1:C:366:PRO:HD3	1:L:694:TRP:CH2	2.46	0.50
1:J:232:SER:HB2	1:J:295:ASP:OD1	2.11	0.50
1:K:323:VAL:CG1	1:K:330:THR:HG23	2.41	0.50
1:N:366:PRO:HD3	1:O:694:TRP:CH2	2.46	0.50
1:O:448:THR:O	1:O:459:ARG:O	2.28	0.50
1:R:323:VAL:CG1	1:R:330:THR:HG23	2.41	0.50
1:T:578:SER:O	1:d:506:THR:HG23	2.11	0.50
1:T:611:VAL:O	1:T:611:VAL:HG23	2.10	0.50
1:X:379:THR:CG2	1:X:390:SER:HB3	2.41	0.50
1:d:323:VAL:CG1	1:d:330:THR:HG23	2.41	0.50
1:f:404:ARG:NH1	1:z:221:VAL:O	2.43	0.50
1:j:323:VAL:CG1	1:j:330:THR:HG23	2.41	0.50
1:k:323:VAL:CG1	1:k:330:THR:HG23	2.41	0.50
1:k:379:THR:CG2	1:k:390:SER:HB3	2.41	0.50
1:k:448:THR:O	1:k:459:ARG:O	2.28	0.50
1:l:448:THR:O	1:l:459:ARG:O	2.28	0.50
1:n:448:THR:O	1:n:459:ARG:O	2.28	0.50
1:u:221:VAL:O	1:2:404:ARG:NH1	2.43	0.50
1:v:366:PRO:HD3	1:y:694:TRP:CH2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:323:VAL:CG1	1:w:330:THR:HG23	2.41	0.50
1:4:323:VAL:CG1	1:4:330:THR:HG23	2.41	0.50
1:E:232:SER:HB2	1:E:295:ASP:OD1	2.11	0.50
1:E:323:VAL:CG1	1:E:330:THR:HG23	2.41	0.50
1:G:366:PRO:HD3	1:H:694:TRP:CH2	2.46	0.50
1:I:221:VAL:O	1:J:404:ARG:NH1	2.43	0.50
1:K:506:THR:HG23	1:8:578:SER:O	2.11	0.50
1:L:379:THR:CG2	1:L:390:SER:HB3	2.41	0.50
1:R:510:LEU:HD21	1:U:567:THR:O	2.11	0.50
1:S:298:ARG:NH2	1:T:689:GLU:OE2	2.44	0.50
1:Z:323:VAL:CG1	1:Z:330:THR:HG23	2.41	0.50
1:i:578:SER:O	1:j:506:THR:HG23	2.10	0.50
1:i:694:TRP:CH2	1:l:366:PRO:HD3	2.46	0.50
1:n:323:VAL:CG1	1:n:330:THR:HG23	2.41	0.50
1:n:379:THR:CG2	1:n:390:SER:HB3	2.41	0.50
1:q:323:VAL:CG1	1:q:330:THR:HG23	2.41	0.50
1:q:421:HIS:C	1:q:421:HIS:CD2	2.88	0.50
1:s:611:VAL:HG23	1:s:611:VAL:O	2.10	0.50
1:t:366:PRO:HD3	1:5:694:TRP:CH2	2.46	0.50
1:z:578:SER:O	1:1:506:THR:HG23	2.11	0.50
1:6:421:HIS:C	1:6:421:HIS:CD2	2.88	0.50
1:B:611:VAL:HG23	1:B:611:VAL:O	2.10	0.50
1:B:694:TRP:CH2	1:I:366:PRO:HD3	2.46	0.50
1:F:421:HIS:C	1:F:421:HIS:CD2	2.88	0.50
1:F:714:VAL:HG23	1:F:714:VAL:O	2.12	0.50
1:G:323:VAL:CG1	1:G:330:THR:HG23	2.41	0.50
1:H:510:LEU:HD21	1:Y:567:THR:O	2.11	0.50
1:N:694:TRP:CH2	1:O:366:PRO:HD3	2.46	0.50
1:R:714:VAL:HG23	1:R:714:VAL:O	2.12	0.50
1:S:379:THR:CG2	1:S:390:SER:HB3	2.41	0.50
1:U:611:VAL:HG23	1:U:611:VAL:O	2.10	0.50
1:V:323:VAL:CG1	1:V:330:THR:HG23	2.41	0.50
1:V:611:VAL:HG23	1:V:611:VAL:O	2.10	0.50
1:W:421:HIS:C	1:W:421:HIS:CD2	2.88	0.50
1:Z:421:HIS:CD2	1:Z:421:HIS:C	2.88	0.50
1:b:319:GLN:O	1:b:675:THR:N	2.37	0.50
1:c:510:LEU:HD21	1:p:567:THR:O	2.11	0.50
1:d:379:THR:CG2	1:d:390:SER:HB3	2.41	0.50
1:f:469:ASP:OD1	1:f:469:ASP:N	2.39	0.50
1:m:298:ARG:NH2	1:r:689:GLU:OE2	2.44	0.50
1:o:694:TRP:CH2	1:6:366:PRO:HD3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:714:VAL:O	1:o:714:VAL:HG23	2.12	0.50
1:p:611:VAL:HG23	1:p:611:VAL:O	2.10	0.50
1:q:714:VAL:HG23	1:q:714:VAL:O	2.12	0.50
1:t:323:VAL:CG1	1:t:330:THR:HG23	2.41	0.50
1:2:611:VAL:HG23	1:2:611:VAL:O	2.10	0.50
1:5:510:LEU:HD21	1:7:567:THR:O	2.11	0.50
1:8:323:VAL:CG1	1:8:330:THR:HG23	2.41	0.50
1:8:421:HIS:C	1:8:421:HIS:CD2	2.88	0.50
1:8:714:VAL:HG23	1:8:714:VAL:O	2.12	0.50
1:A:694:TRP:CH2	1:F:366:PRO:HD3	2.46	0.50
1:E:510:LEU:HD21	1:F:567:THR:O	2.11	0.50
1:I:714:VAL:O	1:I:714:VAL:HG23	2.12	0.50
1:J:611:VAL:HG23	1:J:611:VAL:O	2.10	0.50
1:M:319:GLN:O	1:M:675:THR:N	2.37	0.50
1:N:323:VAL:CG1	1:N:330:THR:HG23	2.41	0.50
1:U:323:VAL:CG1	1:U:330:THR:HG23	2.41	0.50
1:U:694:TRP:CH2	1:V:366:PRO:HD3	2.46	0.50
1:V:567:THR:O	1:e:510:LEU:HD21	2.11	0.50
1:W:366:PRO:HD3	1:X:694:TRP:CH2	2.46	0.50
1:W:482:CYS:O	1:W:597:THR:HA	2.12	0.50
1:X:714:VAL:O	1:X:714:VAL:HG23	2.12	0.50
1:Z:714:VAL:HG23	1:Z:714:VAL:O	2.12	0.50
1:b:714:VAL:HG23	1:b:714:VAL:O	2.12	0.50
1:f:319:GLN:O	1:f:675:THR:N	2.37	0.50
1:f:714:VAL:HG23	1:f:714:VAL:O	2.12	0.50
1:m:611:VAL:O	1:m:611:VAL:HG23	2.10	0.50
1:p:323:VAL:CG1	1:p:330:THR:HG23	2.41	0.50
1:p:694:TRP:CH2	1:s:366:PRO:HD3	2.46	0.50
1:u:366:PRO:HD3	1:1:694:TRP:CH2	2.46	0.50
1:u:714:VAL:O	1:u:714:VAL:HG23	2.12	0.50
1:v:323:VAL:CG1	1:v:330:THR:HG23	2.41	0.50
1:v:694:TRP:CH2	1:y:366:PRO:HD3	2.46	0.50
1:w:232:SER:HB2	1:w:295:ASP:OD1	2.11	0.50
1:y:714:VAL:HG23	1:y:714:VAL:O	2.12	0.50
1:z:379:THR:CG2	1:z:390:SER:HB3	2.41	0.50
1:z:714:VAL:O	1:z:714:VAL:HG23	2.12	0.50
1:1:611:VAL:HG23	1:1:611:VAL:O	2.10	0.50
1:6:323:VAL:CG1	1:6:330:THR:HG23	2.41	0.50
1:6:482:CYS:O	1:6:597:THR:HA	2.12	0.50
1:E:342:VAL:HG22	1:E:648:ILE:HD12	1.94	0.49
1:K:567:THR:O	1:a:510:LEU:HD21	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:714:VAL:O	1:L:714:VAL:HG23	2.12	0.49
1:M:232:SER:HB2	1:M:295:ASP:OD1	2.11	0.49
1:M:482:CYS:O	1:M:597:THR:HA	2.12	0.49
1:S:689:GLU:OE2	1:T:298:ARG:NH2	2.44	0.49
1:T:319:GLN:O	1:T:675:THR:N	2.37	0.49
1:V:232:SER:HB2	1:V:295:ASP:OD1	2.11	0.49
1:W:323:VAL:CG1	1:W:330:THR:HG23	2.41	0.49
1:Z:482:CYS:O	1:Z:597:THR:HA	2.12	0.49
1:h:232:SER:HB2	1:h:295:ASP:OD1	2.11	0.49
1:h:319:GLN:O	1:h:675:THR:N	2.37	0.49
1:i:323:VAL:CG1	1:i:330:THR:HG23	2.41	0.49
1:m:319:GLN:O	1:m:675:THR:N	2.37	0.49
1:p:366:PRO:HD3	1:s:694:TRP:CH2	2.46	0.49
1:q:482:CYS:O	1:q:597:THR:HA	2.12	0.49
1:r:379:THR:CG2	1:r:390:SER:HB3	2.41	0.49
1:s:323:VAL:CG1	1:s:330:THR:HG23	2.41	0.49
1:t:469:ASP:OD1	1:t:469:ASP:N	2.39	0.49
1:w:342:VAL:HG22	1:w:648:ILE:HD12	1.94	0.49
1:w:510:LEU:HD21	1:y:567:THR:O	2.11	0.49
1:y:421:HIS:C	1:y:421:HIS:CD2	2.88	0.49
1:1:714:VAL:O	1:1:714:VAL:HG23	2.12	0.49
1:3:510:LEU:HD21	1:4:567:THR:O	2.11	0.49
1:8:482:CYS:O	1:8:597:THR:HA	2.12	0.49
1:A:323:VAL:CG1	1:A:330:THR:HG23	2.41	0.49
1:E:482:CYS:O	1:E:597:THR:HA	2.12	0.49
1:F:270:ASN:HA	1:Q:470:ILE:HG22	1.94	0.49
1:H:482:CYS:O	1:H:597:THR:HA	2.12	0.49
1:I:482:CYS:O	1:I:597:THR:HA	2.12	0.49
1:J:482:CYS:O	1:J:597:THR:HA	2.12	0.49
1:K:482:CYS:O	1:K:597:THR:HA	2.12	0.49
1:L:319:GLN:O	1:L:675:THR:N	2.37	0.49
1:O:319:GLN:O	1:O:675:THR:N	2.37	0.49
1:P:342:VAL:HG22	1:P:648:ILE:HD12	1.94	0.49
1:R:482:CYS:O	1:R:597:THR:HA	2.12	0.49
1:R:567:THR:O	1:S:510:LEU:HD21	2.11	0.49
1:T:714:VAL:O	1:T:714:VAL:HG23	2.12	0.49
1:U:366:PRO:HD3	1:V:694:TRP:CH2	2.46	0.49
1:a:714:VAL:HG23	1:a:714:VAL:O	2.12	0.49
1:b:469:ASP:OD1	1:b:469:ASP:N	2.39	0.49
1:c:482:CYS:O	1:c:597:THR:HA	2.12	0.49
1:e:482:CYS:O	1:e:597:THR:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:482:CYS:O	1:h:597:THR:HA	2.12	0.49
1:j:342:VAL:HG22	1:j:648:ILE:HD12	1.94	0.49
1:l:319:GLN:O	1:l:675:THR:N	2.37	0.49
1:m:714:VAL:HG23	1:m:714:VAL:O	2.12	0.49
1:o:323:VAL:CG1	1:o:330:THR:HG23	2.41	0.49
1:r:714:VAL:O	1:r:714:VAL:HG23	2.12	0.49
1:v:319:GLN:O	1:v:675:THR:N	2.37	0.49
1:x:470:ILE:HG22	1:y:270:ASN:HA	1.94	0.49
1:z:242:THR:CG2	1:z:681:GLU:CG	2.81	0.49
1:2:482:CYS:O	1:2:597:THR:HA	2.12	0.49
1:4:482:CYS:O	1:4:597:THR:HA	2.12	0.49
1:5:482:CYS:O	1:5:597:THR:HA	2.12	0.49
1:A:240:ILE:CG2	1:A:681:GLU:OE2	2.61	0.49
1:A:270:ASN:HA	1:I:470:ILE:HG22	1.94	0.49
1:B:714:VAL:HG23	1:B:714:VAL:O	2.12	0.49
1:C:470:ILE:HG22	1:b:270:ASN:HA	1.94	0.49
1:D:482:CYS:O	1:D:597:THR:HA	2.12	0.49
1:E:270:ASN:HA	1:F:470:ILE:HG22	1.95	0.49
1:L:482:CYS:O	1:L:597:THR:HA	2.12	0.49
1:L:711:ASP:OD2	1:L:724:ARG:NH1	2.45	0.49
1:Q:482:CYS:O	1:Q:597:THR:HA	2.12	0.49
1:S:714:VAL:HG23	1:S:714:VAL:O	2.12	0.49
1:X:323:VAL:CG1	1:X:330:THR:HG23	2.41	0.49
1:d:482:CYS:O	1:d:597:THR:HA	2.12	0.49
1:i:470:ILE:HG22	1:j:270:ASN:HA	1.95	0.49
1:k:404:ARG:NH1	1:w:221:VAL:O	2.43	0.49
1:l:482:CYS:O	1:l:597:THR:HA	2.12	0.49
1:o:567:THR:O	1:p:510:LEU:HD21	2.11	0.49
1:p:232:SER:HB2	1:p:295:ASP:OD1	2.11	0.49
1:p:482:CYS:O	1:p:597:THR:HA	2.12	0.49
1:q:567:THR:O	1:r:510:LEU:HD21	2.11	0.49
1:u:298:ARG:NH2	1:1:689:GLU:OE2	2.44	0.49
1:u:482:CYS:O	1:u:597:THR:HA	2.12	0.49
1:u:689:GLU:OE2	1:1:298:ARG:NH2	2.44	0.49
1:v:689:GLU:OE2	1:y:298:ARG:NH2	2.44	0.49
1:w:270:ASN:HA	1:y:470:ILE:HG22	1.95	0.49
1:w:482:CYS:O	1:w:597:THR:HA	2.12	0.49
1:z:482:CYS:O	1:z:597:THR:HA	2.12	0.49
1:2:689:GLU:OE2	1:4:298:ARG:NH2	2.44	0.49
1:3:714:VAL:HG23	1:3:714:VAL:O	2.12	0.49
1:A:689:GLU:OE2	1:F:298:ARG:NH2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:298:ARG:NH2	1:I:689:GLU:OE2	2.44	0.49
1:D:240:ILE:CG2	1:D:681:GLU:OE2	2.61	0.49
1:D:470:ILE:HG22	1:N:270:ASN:HA	1.95	0.49
1:G:470:ILE:HG22	1:I:270:ASN:HA	1.94	0.49
1:H:232:SER:HB2	1:H:295:ASP:OD1	2.11	0.49
1:J:689:GLU:OE2	1:K:298:ARG:NH2	2.44	0.49
1:N:470:ILE:HG22	1:P:270:ASN:HA	1.95	0.49
1:N:567:THR:O	1:P:510:LEU:HD21	2.11	0.49
1:N:689:GLU:OE2	1:O:298:ARG:NH2	2.44	0.49
1:O:482:CYS:O	1:O:597:THR:HA	2.12	0.49
1:P:421:HIS:C	1:P:421:HIS:CD2	2.88	0.49
1:Q:342:VAL:HG22	1:Q:648:ILE:HD12	1.94	0.49
1:U:342:VAL:HG22	1:U:648:ILE:HD12	1.94	0.49
1:V:482:CYS:O	1:V:597:THR:HA	2.12	0.49
1:V:510:LEU:HD21	1:X:567:THR:O	2.11	0.49
1:V:714:VAL:HG23	1:V:714:VAL:O	2.12	0.49
1:f:270:ASN:HA	1:g:470:ILE:HG22	1.94	0.49
1:i:567:THR:O	1:j:510:LEU:HD21	2.11	0.49
1:i:689:GLU:OE2	1:l:298:ARG:NH2	2.44	0.49
1:k:240:ILE:CG2	1:k:681:GLU:OE2	2.61	0.49
1:k:482:CYS:O	1:k:597:THR:HA	2.12	0.49
1:n:482:CYS:O	1:n:597:THR:HA	2.12	0.49
1:s:342:VAL:HG22	1:s:648:ILE:HD12	1.94	0.49
1:t:470:ILE:HG22	1:u:270:ASN:HA	1.94	0.49
1:v:240:ILE:CG2	1:v:681:GLU:OE2	2.61	0.49
1:x:482:CYS:O	1:x:597:THR:HA	2.12	0.49
1:z:711:ASP:OD2	1:z:724:ARG:NH1	2.45	0.49
1:B:689:GLU:OE2	1:I:298:ARG:NH2	2.44	0.49
1:D:404:ARG:NH1	1:E:221:VAL:O	2.43	0.49
1:F:482:CYS:O	1:F:597:THR:HA	2.12	0.49
1:G:469:ASP:N	1:G:469:ASP:OD1	2.39	0.49
1:H:240:ILE:CG2	1:H:681:GLU:OE2	2.61	0.49
1:J:240:ILE:CG2	1:J:681:GLU:OE2	2.61	0.49
1:N:482:CYS:O	1:N:597:THR:HA	2.12	0.49
1:R:270:ASN:HA	1:U:470:ILE:HG22	1.95	0.49
1:R:711:ASP:OD2	1:R:724:ARG:NH1	2.45	0.49
1:S:273:PHE:CE2	1:S:386:ALA:HB2	2.48	0.49
1:S:452:SER:OG	1:S:455:THR:O	2.31	0.49
1:U:482:CYS:O	1:U:597:THR:HA	2.12	0.49
1:V:252:TYR:OH	1:V:372:VAL:O	2.24	0.49
1:X:270:ASN:HA	1:e:470:ILE:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:273:PHE:CE2	1:X:386:ALA:HB2	2.48	0.49
1:b:342:VAL:HG22	1:b:648:ILE:HD12	1.94	0.49
1:c:470:ILE:HG22	1:o:270:ASN:HA	1.95	0.49
1:f:342:VAL:HG22	1:f:648:ILE:HD12	1.94	0.49
1:i:270:ASN:HA	1:k:470:ILE:HG22	1.95	0.49
1:i:482:CYS:O	1:i:597:THR:HA	2.12	0.49
1:j:421:HIS:C	1:j:421:HIS:CD2	2.88	0.49
1:l:273:PHE:CE2	1:l:386:ALA:HB2	2.48	0.49
1:n:404:ARG:NH1	1:r:221:VAL:O	2.43	0.49
1:p:714:VAL:HG23	1:p:714:VAL:O	2.12	0.49
1:r:273:PHE:CE2	1:r:386:ALA:HB2	2.48	0.49
1:r:452:SER:OG	1:r:455:THR:O	2.31	0.49
1:s:482:CYS:O	1:s:597:THR:HA	2.12	0.49
1:u:470:ILE:HG22	1:v:270:ASN:HA	1.94	0.49
1:x:273:PHE:CE2	1:x:386:ALA:HB2	2.48	0.49
1:x:342:VAL:HG22	1:x:648:ILE:HD12	1.94	0.49
1:y:482:CYS:O	1:y:597:THR:HA	2.12	0.49
1:2:240:ILE:CG2	1:2:681:GLU:OE2	2.61	0.49
1:3:482:CYS:O	1:3:597:THR:HA	2.12	0.49
1:5:240:ILE:CG2	1:5:681:GLU:OE2	2.61	0.49
1:8:342:VAL:HG22	1:8:648:ILE:HD12	1.94	0.49
1:A:319:GLN:O	1:A:675:THR:N	2.37	0.49
1:A:452:SER:OG	1:A:455:THR:O	2.31	0.49
1:D:270:ASN:HA	1:P:470:ILE:HG22	1.95	0.49
1:G:273:PHE:CE2	1:G:386:ALA:HB2	2.48	0.49
1:H:354:LEU:HD23	1:H:354:LEU:HA	1.61	0.49
1:K:240:ILE:CG2	1:K:681:GLU:OE2	2.61	0.49
1:L:242:THR:CG2	1:L:681:GLU:CG	2.81	0.49
1:M:342:VAL:HG22	1:M:648:ILE:HD12	1.95	0.49
1:N:273:PHE:CE2	1:N:386:ALA:HB2	2.48	0.49
1:O:273:PHE:CE2	1:O:386:ALA:HB2	2.48	0.49
1:O:385:GLN:OE1	1:d:706:LYS:CD	2.61	0.49
1:P:273:PHE:CE2	1:P:386:ALA:HB2	2.48	0.49
1:Q:273:PHE:CE2	1:Q:386:ALA:HB2	2.48	0.49
1:U:232:SER:HB2	1:U:295:ASP:OD1	2.11	0.49
1:V:342:VAL:HG22	1:V:648:ILE:HD12	1.94	0.49
1:V:470:ILE:HG22	1:e:270:ASN:HA	1.94	0.49
1:X:706:LYS:CD	1:Y:385:GLN:OE1	2.61	0.49
1:Z:342:VAL:HG22	1:Z:648:ILE:HD12	1.94	0.49
1:a:482:CYS:O	1:a:597:THR:HA	2.12	0.49
1:c:270:ASN:HA	1:p:470:ILE:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:711:ASP:OD2	1:c:724:ARG:NH1	2.46	0.49
1:e:711:ASP:OD2	1:e:724:ARG:NH1	2.46	0.49
1:g:273:PHE:CE2	1:g:386:ALA:HB2	2.48	0.49
1:h:342:VAL:HG22	1:h:648:ILE:HD12	1.94	0.49
1:k:385:GLN:OE1	1:w:706:LYS:CD	2.61	0.49
1:l:385:GLN:OE1	1:n:706:LYS:CD	2.61	0.49
1:m:221:VAL:O	1:s:404:ARG:NH1	2.43	0.49
1:o:273:PHE:CE2	1:o:386:ALA:HB2	2.48	0.49
1:o:706:LYS:CD	1:7:385:GLN:OE1	2.61	0.49
1:o:711:ASP:OD2	1:o:724:ARG:NH1	2.46	0.49
1:p:342:VAL:HG22	1:p:648:ILE:HD12	1.94	0.49
1:q:270:ASN:HA	1:s:470:ILE:HG22	1.95	0.49
1:q:711:ASP:OD2	1:q:724:ARG:NH1	2.45	0.49
1:t:273:PHE:CE2	1:t:386:ALA:HB2	2.48	0.49
1:u:706:LYS:CD	1:2:385:GLN:OE1	2.61	0.49
1:4:240:ILE:CG2	1:4:681:GLU:OE2	2.61	0.49
1:5:232:SER:HB2	1:5:295:ASP:OD1	2.11	0.49
1:C:273:PHE:CE2	1:C:386:ALA:HB2	2.48	0.49
1:C:482:CYS:O	1:C:597:THR:HA	2.12	0.49
1:D:385:GLN:OE1	1:E:706:LYS:CD	2.61	0.49
1:E:273:PHE:CE2	1:E:386:ALA:HB2	2.48	0.49
1:G:706:LYS:CD	1:W:385:GLN:OE1	2.61	0.49
1:H:706:LYS:CD	1:I:385:GLN:OE1	2.61	0.49
1:I:706:LYS:CD	1:J:385:GLN:OE1	2.61	0.49
1:I:711:ASP:OD2	1:I:724:ARG:NH1	2.46	0.49
1:K:706:LYS:CD	1:L:385:GLN:OE1	2.61	0.49
1:M:452:SER:OG	1:M:455:THR:O	2.31	0.49
1:O:567:THR:O	1:m:510:LEU:HD21	2.11	0.49
1:Q:240:ILE:CG2	1:Q:681:GLU:OE2	2.61	0.49
1:Q:609:ARG:HH21	1:Q:609:ARG:CG	2.26	0.49
1:Q:612:TYR:CE1	1:Q:727:GLY:HA3	2.48	0.49
1:R:273:PHE:CE2	1:R:386:ALA:HB2	2.48	0.49
1:S:221:VAL:O	1:d:404:ARG:NH1	2.43	0.49
1:S:354:LEU:HA	1:S:354:LEU:HD23	1.61	0.49
1:T:221:VAL:O	1:U:404:ARG:NH1	2.43	0.49
1:X:711:ASP:OD2	1:X:724:ARG:NH1	2.46	0.49
1:a:342:VAL:HG22	1:a:648:ILE:HD12	1.94	0.49
1:d:273:PHE:CE2	1:d:386:ALA:HB2	2.48	0.49
1:d:714:VAL:HG23	1:d:714:VAL:O	2.12	0.49
1:g:270:ASN:HA	1:h:470:ILE:HG22	1.94	0.49
1:i:273:PHE:CE2	1:i:386:ALA:HB2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:273:PHE:CE2	1:j:386:ALA:HB2	2.48	0.49
1:j:470:ILE:HG22	1:k:270:ASN:HA	1.95	0.49
1:k:609:ARG:HH21	1:k:609:ARG:CG	2.26	0.49
1:l:342:VAL:HG22	1:l:648:ILE:HD12	1.94	0.49
1:n:714:VAL:HG23	1:n:714:VAL:O	2.12	0.49
1:p:252:TYR:OH	1:p:372:VAL:O	2.24	0.49
1:s:240:ILE:CG2	1:s:681:GLU:OE2	2.61	0.49
1:t:706:LYS:CD	1:6:385:GLN:OE1	2.61	0.49
1:u:385:GLN:OE1	1:5:706:LYS:CD	2.61	0.49
1:u:711:ASP:OD2	1:u:724:ARG:NH1	2.46	0.49
1:v:714:VAL:O	1:v:714:VAL:HG23	2.12	0.49
1:w:273:PHE:CE2	1:w:386:ALA:HB2	2.48	0.49
1:w:714:VAL:O	1:w:714:VAL:HG23	2.12	0.49
1:x:609:ARG:HH21	1:x:609:ARG:CG	2.26	0.49
1:x:612:TYR:CE1	1:x:727:GLY:HA3	2.48	0.49
1:z:319:GLN:O	1:z:675:THR:N	2.37	0.49
1:z:342:VAL:HG22	1:z:648:ILE:HD12	1.94	0.49
1:z:385:GLN:OE1	1:4:706:LYS:CD	2.61	0.49
1:2:706:LYS:CD	1:3:385:GLN:OE1	2.61	0.49
1:3:342:VAL:HG22	1:3:648:ILE:HD12	1.94	0.49
1:5:714:VAL:HG23	1:5:714:VAL:O	2.12	0.49
1:A:714:VAL:O	1:A:714:VAL:HG23	2.12	0.49
1:B:482:CYS:O	1:B:597:THR:HA	2.12	0.49
1:C:270:ASN:HA	1:M:470:ILE:HG22	1.94	0.49
1:C:612:TYR:CE1	1:C:727:GLY:HA3	2.48	0.49
1:D:273:PHE:CE2	1:D:386:ALA:HB2	2.48	0.49
1:D:609:ARG:HH21	1:D:609:ARG:CG	2.26	0.49
1:G:714:VAL:O	1:G:714:VAL:HG23	2.12	0.49
1:H:714:VAL:HG23	1:H:714:VAL:O	2.12	0.49
1:J:706:LYS:CD	1:a:385:GLN:OE1	2.61	0.49
1:K:342:VAL:HG22	1:K:648:ILE:HD12	1.94	0.49
1:L:273:PHE:CE2	1:L:386:ALA:HB2	2.48	0.49
1:L:342:VAL:HG22	1:L:648:ILE:HD12	1.94	0.49
1:L:612:TYR:CE1	1:L:727:GLY:HA3	2.48	0.49
1:N:342:VAL:HG22	1:N:648:ILE:HD12	1.94	0.49
1:N:612:TYR:CE1	1:N:727:GLY:HA3	2.48	0.49
1:O:342:VAL:HG22	1:O:648:ILE:HD12	1.94	0.49
1:P:714:VAL:HG23	1:P:714:VAL:O	2.12	0.49
1:R:240:ILE:CG2	1:R:681:GLU:OE2	2.61	0.49
1:R:612:TYR:CE1	1:R:727:GLY:HA3	2.48	0.49
1:T:240:ILE:CG2	1:T:681:GLU:OE2	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:510:LEU:HD21	1:l:567:THR:O	2.11	0.49
1:T:612:TYR:CE1	1:T:727:GLY:HA3	2.48	0.49
1:U:240:ILE:CG2	1:U:681:GLU:OE2	2.61	0.49
1:W:342:VAL:HG22	1:W:648:ILE:HD12	1.94	0.49
1:d:240:ILE:CG2	1:d:681:GLU:OE2	2.61	0.49
1:f:240:ILE:CG2	1:f:681:GLU:OE2	2.61	0.49
1:g:482:CYS:O	1:g:597:THR:HA	2.12	0.49
1:h:452:SER:OG	1:h:455:THR:O	2.31	0.49
1:i:342:VAL:HG22	1:i:648:ILE:HD12	1.94	0.49
1:m:612:TYR:CE1	1:m:727:GLY:HA3	2.48	0.49
1:n:240:ILE:CG2	1:n:681:GLU:OE2	2.61	0.49
1:n:273:PHE:CE2	1:n:386:ALA:HB2	2.48	0.49
1:p:273:PHE:CE2	1:p:386:ALA:HB2	2.48	0.49
1:q:273:PHE:CE2	1:q:386:ALA:HB2	2.48	0.49
1:s:232:SER:HB2	1:s:295:ASP:OD1	2.11	0.49
1:x:240:ILE:CG2	1:x:681:GLU:OE2	2.61	0.49
1:z:612:TYR:CE1	1:z:727:GLY:HA3	2.48	0.49
1:1:482:CYS:O	1:1:597:THR:HA	2.12	0.49
1:2:323:VAL:CG1	1:2:330:THR:HG23	2.41	0.49
1:4:246:THR:HG1	1:4:677:GLN:HE21	1.57	0.49
1:7:342:VAL:HG22	1:7:648:ILE:HD12	1.94	0.49
1:C:240:ILE:CG2	1:C:681:GLU:OE2	2.61	0.49
1:E:714:VAL:HG23	1:E:714:VAL:O	2.12	0.49
1:F:385:GLN:OE1	1:R:706:LYS:CD	2.61	0.49
1:F:706:LYS:CD	1:G:385:GLN:OE1	2.61	0.49
1:H:342:VAL:HG22	1:H:648:ILE:HD12	1.94	0.49
1:K:385:GLN:OE1	1:7:706:LYS:CD	2.61	0.49
1:N:221:VAL:O	1:m:404:ARG:NH1	2.43	0.49
1:O:240:ILE:CG2	1:O:681:GLU:OE2	2.61	0.49
1:S:470:ILE:HG22	1:U:270:ASN:HA	1.95	0.49
1:U:612:TYR:CE1	1:U:727:GLY:HA3	2.48	0.49
1:V:239:VAL:CG1	1:V:684:TRP:HB2	2.43	0.49
1:V:240:ILE:CG2	1:V:681:GLU:OE2	2.61	0.49
1:V:273:PHE:CE2	1:V:386:ALA:HB2	2.48	0.49
1:Y:342:VAL:HG22	1:Y:648:ILE:HD12	1.94	0.49
1:Y:482:CYS:O	1:Y:597:THR:HA	2.12	0.49
1:Z:470:ILE:HG22	1:4:270:ASN:HA	1.94	0.49
1:a:612:TYR:CE1	1:a:727:GLY:HA3	2.48	0.49
1:b:240:ILE:CG2	1:b:681:GLU:OE2	2.61	0.49
1:e:365:PHE:CD1	1:e:366:PRO:CD	2.95	0.49
1:g:240:ILE:CG2	1:g:681:GLU:OE2	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:612:TYR:CE1	1:g:727:GLY:HA3	2.48	0.49
1:i:510:LEU:HD21	1:k:567:THR:O	2.11	0.49
1:i:612:TYR:CE1	1:i:727:GLY:HA3	2.48	0.49
1:k:273:PHE:CE2	1:k:386:ALA:HB2	2.48	0.49
1:m:240:ILE:CG2	1:m:681:GLU:OE2	2.61	0.49
1:p:239:VAL:CG1	1:p:684:TRP:HB2	2.43	0.49
1:p:240:ILE:CG2	1:p:681:GLU:OE2	2.61	0.49
1:q:240:ILE:CG2	1:q:681:GLU:OE2	2.61	0.49
1:q:612:TYR:CE1	1:q:727:GLY:HA3	2.48	0.49
1:s:612:TYR:CE1	1:s:727:GLY:HA3	2.48	0.49
1:t:714:VAL:HG23	1:t:714:VAL:O	2.12	0.49
1:y:612:TYR:CE1	1:y:727:GLY:HA3	2.48	0.49
1:z:273:PHE:CE2	1:z:386:ALA:HB2	2.48	0.49
1:6:342:VAL:HG22	1:6:648:ILE:HD12	1.94	0.49
1:A:482:CYS:O	1:A:597:THR:HA	2.12	0.49
1:B:270:ASN:HA	1:L:470:ILE:HG22	1.95	0.49
1:C:342:VAL:HG22	1:C:648:ILE:HD12	1.94	0.49
1:F:612:TYR:CE1	1:F:727:GLY:HA3	2.48	0.49
1:F:657:PRO:HB3	1:F:666:PHE:HZ	1.78	0.49
1:H:239:VAL:CG1	1:H:684:TRP:HB2	2.43	0.49
1:J:323:VAL:CG1	1:J:330:THR:HG23	2.41	0.49
1:K:270:ASN:HA	1:8:470:ILE:HG22	1.94	0.49
1:L:469:ASP:OD1	1:L:469:ASP:N	2.39	0.49
1:O:470:ILE:HG22	1:m:270:ASN:HA	1.94	0.49
1:T:270:ASN:HA	1:l:470:ILE:HG22	1.94	0.49
1:T:273:PHE:CE2	1:T:386:ALA:HB2	2.48	0.49
1:T:385:GLN:OE1	1:i:706:LYS:CD	2.61	0.49
1:W:239:VAL:CG1	1:W:684:TRP:HB2	2.43	0.49
1:W:612:TYR:CE1	1:W:727:GLY:HA3	2.48	0.49
1:Y:612:TYR:CE1	1:Y:727:GLY:HA3	2.48	0.49
1:Y:706:LYS:CD	1:4:385:GLN:OE1	2.61	0.49
1:Z:612:TYR:CE1	1:Z:727:GLY:HA3	2.48	0.49
1:b:482:CYS:O	1:b:597:THR:HA	2.12	0.49
1:c:365:PHE:CD1	1:c:366:PRO:CD	2.95	0.49
1:d:298:ARG:NH2	1:n:689:GLU:OE2	2.44	0.49
1:d:612:TYR:CE1	1:d:727:GLY:HA3	2.48	0.49
1:h:365:PHE:CD1	1:h:366:PRO:CD	2.95	0.49
1:j:365:PHE:CD1	1:j:366:PRO:CD	2.95	0.49
1:j:714:VAL:O	1:j:714:VAL:HG23	2.12	0.49
1:l:240:ILE:CG2	1:l:681:GLU:OE2	2.61	0.49
1:m:482:CYS:O	1:m:597:THR:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:706:LYS:CD	1:y:385:GLN:OE1	2.61	0.49
1:r:470:ILE:HG22	1:s:270:ASN:HA	1.95	0.49
1:r:482:CYS:O	1:r:597:THR:HA	2.12	0.49
1:t:385:GLN:OE1	1:y:706:LYS:CD	2.61	0.49
1:v:482:CYS:O	1:v:597:THR:HA	2.12	0.49
1:w:612:TYR:CE1	1:w:727:GLY:HA3	2.48	0.49
1:y:657:PRO:HB3	1:y:666:PHE:HZ	1.78	0.49
1:z:469:ASP:OD1	1:z:469:ASP:N	2.39	0.49
1:3:612:TYR:CE1	1:3:727:GLY:HA3	2.48	0.49
1:4:342:VAL:HG22	1:4:648:ILE:HD12	1.94	0.49
1:5:239:VAL:CG1	1:5:684:TRP:HB2	2.43	0.49
1:5:342:VAL:HG22	1:5:648:ILE:HD12	1.94	0.49
1:6:239:VAL:CG1	1:6:684:TRP:HB2	2.43	0.49
1:6:612:TYR:CE1	1:6:727:GLY:HA3	2.48	0.49
1:8:612:TYR:CE1	1:8:727:GLY:HA3	2.48	0.49
1:C:657:PRO:HB3	1:C:666:PHE:HZ	1.78	0.48
1:D:567:THR:O	1:N:510:LEU:HD21	2.11	0.48
1:E:612:TYR:CE1	1:E:727:GLY:HA3	2.48	0.48
1:H:609:ARG:HH21	1:H:609:ARG:CG	2.26	0.48
1:I:239:VAL:CG1	1:I:684:TRP:HB2	2.43	0.48
1:I:421:HIS:CD2	1:I:421:HIS:C	2.88	0.48
1:J:273:PHE:CE2	1:J:386:ALA:HB2	2.48	0.48
1:J:342:VAL:HG22	1:J:648:ILE:HD12	1.94	0.48
1:J:612:TYR:CE1	1:J:727:GLY:HA3	2.48	0.48
1:M:365:PHE:CD1	1:M:366:PRO:CD	2.95	0.48
1:N:706:LYS:CD	1:m:385:GLN:OE1	2.61	0.48
1:O:270:ASN:HA	1:n:470:ILE:HG22	1.95	0.48
1:R:657:PRO:HB3	1:R:666:PHE:HZ	1.78	0.48
1:T:404:ARG:NH1	1:i:221:VAL:O	2.43	0.48
1:V:657:PRO:HB3	1:V:666:PHE:HZ	1.78	0.48
1:V:711:ASP:OD2	1:V:724:ARG:NH1	2.46	0.48
1:X:657:PRO:HB3	1:X:666:PHE:HZ	1.78	0.48
1:b:612:TYR:CE1	1:b:727:GLY:HA3	2.48	0.48
1:c:273:PHE:CE2	1:c:386:ALA:HB2	2.48	0.48
1:d:470:ILE:HG22	1:l:270:ASN:HA	1.95	0.48
1:f:612:TYR:CE1	1:f:727:GLY:HA3	2.48	0.48
1:g:342:VAL:HG22	1:g:648:ILE:HD12	1.94	0.48
1:i:239:VAL:CG1	1:i:684:TRP:HB2	2.43	0.48
1:n:612:TYR:CE1	1:n:727:GLY:HA3	2.48	0.48
1:o:657:PRO:HB3	1:o:666:PHE:HZ	1.78	0.48
1:p:711:ASP:OD2	1:p:724:ARG:NH1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:657:PRO:HB3	1:q:666:PHE:HZ	1.78	0.48
1:t:270:ASN:HA	1:v:470:ILE:HG22	1.95	0.48
1:t:298:ARG:NH2	1:5:689:GLU:OE2	2.44	0.48
1:t:482:CYS:O	1:t:597:THR:HA	2.12	0.48
1:t:657:PRO:HB3	1:t:666:PHE:HZ	1.78	0.48
1:u:239:VAL:CG1	1:u:684:TRP:HB2	2.43	0.48
1:v:273:PHE:CE2	1:v:386:ALA:HB2	2.48	0.48
1:z:470:ILE:HG22	1:1:270:ASN:HA	1.95	0.48
1:2:612:TYR:CE1	1:2:727:GLY:HA3	2.48	0.48
1:5:612:TYR:CE1	1:5:727:GLY:HA3	2.48	0.48
1:7:482:CYS:O	1:7:597:THR:HA	2.12	0.48
1:7:612:TYR:CE1	1:7:727:GLY:HA3	2.48	0.48
1:7:689:GLU:OE2	1:8:298:ARG:NH2	2.44	0.48
1:A:273:PHE:CE2	1:A:386:ALA:HB2	2.48	0.48
1:A:470:ILE:HG22	1:G:270:ASN:HA	1.95	0.48
1:B:273:PHE:CE2	1:B:386:ALA:HB2	2.48	0.48
1:C:239:VAL:CG1	1:C:684:TRP:HB2	2.43	0.48
1:G:298:ARG:NH2	1:H:689:GLU:OE2	2.44	0.48
1:G:482:CYS:O	1:G:597:THR:HA	2.12	0.48
1:G:657:PRO:HB3	1:G:666:PHE:HZ	1.78	0.48
1:H:270:ASN:HA	1:Y:470:ILE:HG22	1.95	0.48
1:H:612:TYR:CE1	1:H:727:GLY:HA3	2.48	0.48
1:N:239:VAL:CG1	1:N:684:TRP:HB2	2.43	0.48
1:O:239:VAL:CG1	1:O:684:TRP:HB2	2.43	0.48
1:O:612:TYR:CE1	1:O:727:GLY:HA3	2.48	0.48
1:P:365:PHE:CD1	1:P:366:PRO:CD	2.95	0.48
1:R:342:VAL:HG22	1:R:648:ILE:HD12	1.94	0.48
1:S:482:CYS:O	1:S:597:THR:HA	2.12	0.48
1:T:482:CYS:O	1:T:597:THR:HA	2.12	0.48
1:V:270:ASN:HA	1:X:470:ILE:HG22	1.94	0.48
1:X:342:VAL:HG22	1:X:648:ILE:HD12	1.94	0.48
1:Z:365:PHE:CD1	1:Z:366:PRO:CD	2.95	0.48
1:a:239:VAL:CG1	1:a:684:TRP:HB2	2.43	0.48
1:d:689:GLU:OE2	1:n:298:ARG:NH2	2.44	0.48
1:e:273:PHE:CE2	1:e:386:ALA:HB2	2.48	0.48
1:e:612:TYR:CE1	1:e:727:GLY:HA3	2.48	0.48
1:f:482:CYS:O	1:f:597:THR:HA	2.12	0.48
1:g:239:VAL:CG1	1:g:684:TRP:HB2	2.43	0.48
1:g:657:PRO:HB3	1:g:666:PHE:HZ	1.78	0.48
1:m:273:PHE:CE2	1:m:386:ALA:HB2	2.48	0.48
1:o:470:ILE:HG22	1:p:270:ASN:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:657:PRO:HB3	1:p:666:PHE:HZ	1.78	0.48
1:r:385:GLN:OE1	1:x:706:LYS:CD	2.61	0.48
1:1:240:ILE:CG2	1:1:681:GLU:OE2	2.61	0.48
1:1:273:PHE:CE2	1:1:386:ALA:HB2	2.48	0.48
1:2:239:VAL:CG1	1:2:684:TRP:HB2	2.43	0.48
1:2:273:PHE:CE2	1:2:386:ALA:HB2	2.48	0.48
1:2:342:VAL:HG22	1:2:648:ILE:HD12	1.94	0.48
1:2:421:HIS:CD2	1:2:421:HIS:C	2.88	0.48
1:3:239:VAL:CG1	1:3:684:TRP:HB2	2.43	0.48
1:5:270:ASN:HA	1:7:470:ILE:HG22	1.95	0.48
1:5:609:ARG:HH21	1:5:609:ARG:CG	2.26	0.48
1:7:354:LEU:HA	1:7:354:LEU:HD23	1.61	0.48
1:B:239:VAL:CG1	1:B:684:TRP:HB2	2.43	0.48
1:B:240:ILE:CG2	1:B:681:GLU:OE2	2.61	0.48
1:F:711:ASP:OD2	1:F:724:ARG:NH1	2.46	0.48
1:J:239:VAL:CG1	1:J:684:TRP:HB2	2.43	0.48
1:J:421:HIS:C	1:J:421:HIS:CD2	2.88	0.48
1:Q:239:VAL:CG1	1:Q:684:TRP:HB2	2.43	0.48
1:Q:706:LYS:CD	1:S:385:GLN:OE1	2.61	0.48
1:R:246:THR:HG1	1:R:677:GLN:HE21	1.57	0.48
1:R:385:GLN:OE1	1:V:706:LYS:CD	2.61	0.48
1:V:612:TYR:CE1	1:V:727:GLY:HA3	2.48	0.48
1:W:714:VAL:O	1:W:714:VAL:HG23	2.12	0.48
1:a:452:SER:OG	1:a:455:THR:O	2.31	0.48
1:b:657:PRO:HB3	1:b:666:PHE:HZ	1.78	0.48
1:c:612:TYR:CE1	1:c:727:GLY:HA3	2.48	0.48
1:c:714:VAL:HG23	1:c:714:VAL:O	2.12	0.48
1:e:714:VAL:HG23	1:e:714:VAL:O	2.12	0.48
1:f:657:PRO:HB3	1:f:666:PHE:HZ	1.78	0.48
1:j:706:LYS:CD	1:x:385:GLN:OE1	2.61	0.48
1:l:239:VAL:CG1	1:l:684:TRP:HB2	2.43	0.48
1:l:612:TYR:CE1	1:l:727:GLY:HA3	2.48	0.48
1:x:239:VAL:CG1	1:x:684:TRP:HB2	2.43	0.48
1:1:239:VAL:CG1	1:1:684:TRP:HB2	2.43	0.48
1:3:452:SER:OG	1:3:455:THR:O	2.31	0.48
1:4:273:PHE:CE2	1:4:386:ALA:HB2	2.48	0.48
1:4:714:VAL:O	1:4:714:VAL:HG23	2.12	0.48
1:8:273:PHE:CE2	1:8:386:ALA:HB2	2.48	0.48
1:8:365:PHE:CD1	1:8:366:PRO:CD	2.95	0.48
1:B:657:PRO:HB3	1:B:666:PHE:HZ	1.78	0.48
1:E:239:VAL:CG1	1:E:684:TRP:HB2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:342:VAL:HG22	1:F:648:ILE:HD12	1.94	0.48
1:J:354:LEU:HA	1:J:354:LEU:HD23	1.61	0.48
1:J:657:PRO:HB3	1:J:666:PHE:HZ	1.78	0.48
1:J:714:VAL:HG23	1:J:714:VAL:O	2.12	0.48
1:K:714:VAL:HG23	1:K:714:VAL:O	2.12	0.48
1:M:385:GLN:OE1	1:c:706:LYS:CD	2.61	0.48
1:O:486:GLN:HE21	1:n:590:ALA:HB1	1.79	0.48
1:P:706:LYS:CD	1:Q:385:GLN:OE1	2.61	0.48
1:R:452:SER:OG	1:R:455:THR:O	2.31	0.48
1:S:590:ALA:HB1	1:U:486:GLN:HE21	1.79	0.48
1:S:711:ASP:OD2	1:S:724:ARG:NH1	2.45	0.48
1:T:711:ASP:OD2	1:T:724:ARG:NH1	2.46	0.48
1:X:239:VAL:CG1	1:X:684:TRP:HB2	2.43	0.48
1:Y:298:ARG:NH2	1:Z:689:GLU:OE2	2.44	0.48
1:Y:689:GLU:OE2	1:Z:298:ARG:NH2	2.44	0.48
1:Z:273:PHE:CE2	1:Z:386:ALA:HB2	2.48	0.48
1:d:590:ALA:HB1	1:l:486:GLN:HE21	1.79	0.48
1:d:657:PRO:HB3	1:d:666:PHE:HZ	1.78	0.48
1:e:298:ARG:NH2	1:f:689:GLU:OE2	2.44	0.48
1:e:706:LYS:CD	1:h:385:GLN:OE1	2.61	0.48
1:i:714:VAL:HG23	1:i:714:VAL:O	2.12	0.48
1:j:240:ILE:CG2	1:j:681:GLU:OE2	2.61	0.48
1:o:342:VAL:HG22	1:o:648:ILE:HD12	1.94	0.48
1:o:365:PHE:CD1	1:o:366:PRO:CD	2.95	0.48
1:p:612:TYR:CE1	1:p:727:GLY:HA3	2.48	0.48
1:p:706:LYS:CD	1:q:385:GLN:OE1	2.61	0.48
1:q:342:VAL:HG22	1:q:648:ILE:HD12	1.94	0.48
1:r:590:ALA:HB1	1:s:486:GLN:HE21	1.79	0.48
1:s:714:VAL:O	1:s:714:VAL:HG23	2.12	0.48
1:v:385:GLN:OE1	1:1:706:LYS:CD	2.61	0.48
1:w:239:VAL:CG1	1:w:684:TRP:HB2	2.43	0.48
1:y:342:VAL:HG22	1:y:648:ILE:HD12	1.94	0.48
1:y:711:ASP:OD2	1:y:724:ARG:NH1	2.46	0.48
1:z:239:VAL:CG1	1:z:684:TRP:HB2	2.43	0.48
1:1:470:ILE:HG22	1:2:270:ASN:HA	1.95	0.48
1:2:714:VAL:HG23	1:2:714:VAL:O	2.12	0.48
1:3:609:ARG:HH21	1:3:609:ARG:CG	2.26	0.48
1:7:273:PHE:CE2	1:7:386:ALA:HB2	2.48	0.48
1:7:298:ARG:NH2	1:8:689:GLU:OE2	2.44	0.48
1:A:239:VAL:CG1	1:A:684:TRP:HB2	2.43	0.48
1:A:385:GLN:OE1	1:B:706:LYS:CD	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:342:VAL:HG22	1:D:648:ILE:HD12	1.94	0.48
1:H:273:PHE:CE2	1:H:386:ALA:HB2	2.48	0.48
1:J:609:ARG:HD2	1:J:633:LEU:O	2.14	0.48
1:K:273:PHE:CE2	1:K:386:ALA:HB2	2.48	0.48
1:K:470:ILE:HG22	1:a:270:ASN:HA	1.94	0.48
1:L:239:VAL:CG1	1:L:684:TRP:HB2	2.43	0.48
1:L:240:ILE:CG2	1:L:681:GLU:OE2	2.61	0.48
1:P:240:ILE:CG2	1:P:681:GLU:OE2	2.61	0.48
1:Q:711:ASP:OD2	1:Q:724:ARG:NH1	2.46	0.48
1:S:612:TYR:CE1	1:S:727:GLY:HA3	2.48	0.48
1:W:240:ILE:CG2	1:W:681:GLU:OE2	2.61	0.48
1:X:482:CYS:O	1:X:597:THR:HA	2.12	0.48
1:Y:240:ILE:CG2	1:Y:681:GLU:OE2	2.61	0.48
1:Y:273:PHE:CE2	1:Y:386:ALA:HB2	2.48	0.48
1:a:273:PHE:CE2	1:a:386:ALA:HB2	2.48	0.48
1:a:609:ARG:HH21	1:a:609:ARG:CG	2.26	0.48
1:b:239:VAL:CG1	1:b:684:TRP:HB2	2.43	0.48
1:b:609:ARG:HH21	1:b:609:ARG:CG	2.26	0.48
1:c:657:PRO:HB3	1:c:666:PHE:HZ	1.78	0.48
1:d:342:VAL:HG22	1:d:648:ILE:HD12	1.94	0.48
1:e:657:PRO:HB3	1:e:666:PHE:HZ	1.78	0.48
1:f:239:VAL:CG1	1:f:684:TRP:HB2	2.43	0.48
1:f:609:ARG:HH21	1:f:609:ARG:CG	2.26	0.48
1:h:240:ILE:CG2	1:h:681:GLU:OE2	2.61	0.48
1:h:657:PRO:HB3	1:h:666:PHE:HZ	1.78	0.48
1:j:385:GLN:OE1	1:l:706:LYS:CD	2.61	0.48
1:j:555:GLU:HG3	1:j:556:LYS:HD3	1.96	0.48
1:k:342:VAL:HG22	1:k:648:ILE:HD12	1.94	0.48
1:m:711:ASP:OD2	1:m:724:ARG:NH1	2.46	0.48
1:n:342:VAL:HG22	1:n:648:ILE:HD12	1.94	0.48
1:n:657:PRO:HB3	1:n:666:PHE:HZ	1.78	0.48
1:o:239:VAL:CG1	1:o:684:TRP:HB2	2.43	0.48
1:o:612:TYR:CE1	1:o:727:GLY:HA3	2.48	0.48
1:q:246:THR:HG1	1:q:677:GLN:HE21	1.57	0.48
1:q:609:ARG:HD2	1:q:633:LEU:O	2.14	0.48
1:r:354:LEU:HA	1:r:354:LEU:HD23	1.61	0.48
1:t:239:VAL:CG1	1:t:684:TRP:HB2	2.43	0.48
1:v:239:VAL:CG1	1:v:684:TRP:HB2	2.43	0.48
1:1:657:PRO:HB3	1:1:666:PHE:HZ	1.78	0.48
1:2:657:PRO:HB3	1:2:666:PHE:HZ	1.78	0.48
1:5:273:PHE:CE2	1:5:386:ALA:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:240:ILE:CG2	1:6:681:GLU:OE2	2.61	0.48
1:6:714:VAL:HG23	1:6:714:VAL:O	2.12	0.48
1:B:470:ILE:HG22	1:J:270:ASN:HA	1.95	0.48
1:C:714:VAL:HG23	1:C:714:VAL:O	2.12	0.48
1:D:486:GLN:HE21	1:P:590:ALA:HB1	1.79	0.48
1:E:365:PHE:CD1	1:E:366:PRO:CD	2.95	0.48
1:E:555:GLU:HG3	1:E:556:LYS:HD3	1.96	0.48
1:G:239:VAL:CG1	1:G:684:TRP:HB2	2.43	0.48
1:G:342:VAL:HG22	1:G:648:ILE:HD12	1.94	0.48
1:G:612:TYR:CE1	1:G:727:GLY:HA3	2.48	0.48
1:H:470:ILE:HG22	1:W:270:ASN:HA	1.95	0.48
1:J:470:ILE:HG22	1:L:270:ASN:HA	1.95	0.48
1:K:486:GLN:HE21	1:8:590:ALA:HB1	1.79	0.48
1:M:240:ILE:CG2	1:M:681:GLU:OE2	2.61	0.48
1:M:555:GLU:HG3	1:M:556:LYS:HD3	1.96	0.48
1:M:612:TYR:CE1	1:M:727:GLY:HA3	2.48	0.48
1:M:657:PRO:HB3	1:M:666:PHE:HZ	1.78	0.48
1:N:714:VAL:HG23	1:N:714:VAL:O	2.12	0.48
1:P:482:CYS:O	1:P:597:THR:HA	2.12	0.48
1:P:555:GLU:HG3	1:P:556:LYS:HD3	1.96	0.48
1:R:609:ARG:HD2	1:R:633:LEU:O	2.14	0.48
1:S:706:LYS:CD	1:d:385:GLN:OE1	2.61	0.48
1:T:470:ILE:HG22	1:d:270:ASN:HA	1.94	0.48
1:U:273:PHE:CE2	1:U:386:ALA:HB2	2.48	0.48
1:U:657:PRO:HB3	1:U:666:PHE:HZ	1.78	0.48
1:U:711:ASP:OD2	1:U:724:ARG:NH1	2.45	0.48
1:U:714:VAL:O	1:U:714:VAL:HG23	2.12	0.48
1:W:273:PHE:CE2	1:W:386:ALA:HB2	2.48	0.48
1:W:711:ASP:OD2	1:W:724:ARG:NH1	2.46	0.48
1:X:365:PHE:CD1	1:X:366:PRO:CD	2.95	0.48
1:X:612:TYR:CE1	1:X:727:GLY:HA3	2.48	0.48
1:Y:354:LEU:HD23	1:Y:354:LEU:HA	1.61	0.48
1:Y:657:PRO:HB3	1:Y:666:PHE:HZ	1.78	0.48
1:Z:239:VAL:CG1	1:Z:684:TRP:HB2	2.43	0.48
1:Z:590:ALA:HB1	1:4:486:GLN:HE21	1.79	0.48
1:a:609:ARG:HD2	1:a:633:LEU:O	2.14	0.48
1:d:555:GLU:HG3	1:d:556:LYS:HD3	1.96	0.48
1:h:555:GLU:HG3	1:h:556:LYS:HD3	1.96	0.48
1:h:612:TYR:CE1	1:h:727:GLY:HA3	2.48	0.48
1:h:714:VAL:HG23	1:h:714:VAL:O	2.12	0.48
1:j:482:CYS:O	1:j:597:THR:HA	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:590:ALA:HB1	1:k:486:GLN:HE21	1.79	0.48
1:n:385:GLN:OE1	1:r:706:LYS:CD	2.61	0.48
1:n:555:GLU:HG3	1:n:556:LYS:HD3	1.96	0.48
1:o:482:CYS:O	1:o:597:THR:HA	2.12	0.48
1:p:385:GLN:OE1	1:6:706:LYS:CD	2.61	0.48
1:r:612:TYR:CE1	1:r:727:GLY:HA3	2.48	0.48
1:r:711:ASP:OD2	1:r:724:ARG:NH1	2.45	0.48
1:t:342:VAL:HG22	1:t:648:ILE:HD12	1.94	0.48
1:w:555:GLU:HG3	1:w:556:LYS:HD3	1.96	0.48
1:z:240:ILE:CG2	1:z:681:GLU:OE2	2.61	0.48
1:2:609:ARG:HD2	1:2:633:LEU:O	2.14	0.48
1:3:270:ASN:HA	1:4:470:ILE:HG22	1.94	0.48
1:3:273:PHE:CE2	1:3:386:ALA:HB2	2.48	0.48
1:3:609:ARG:HD2	1:3:633:LEU:O	2.14	0.48
1:6:555:GLU:HG3	1:6:556:LYS:HD3	1.96	0.48
1:6:711:ASP:OD2	1:6:724:ARG:NH1	2.46	0.48
1:7:240:ILE:CG2	1:7:681:GLU:OE2	2.61	0.48
1:7:657:PRO:HB3	1:7:666:PHE:HZ	1.78	0.48
1:I:342:VAL:HG22	1:I:648:ILE:HD12	1.94	0.48
1:N:240:ILE:CG2	1:N:681:GLU:OE2	2.61	0.48
1:N:657:PRO:HB3	1:N:666:PHE:HZ	1.78	0.48
1:O:706:LYS:CD	1:P:385:GLN:OE1	2.61	0.48
1:P:657:PRO:HB3	1:P:666:PHE:HZ	1.78	0.48
1:R:555:GLU:HG3	1:R:556:LYS:HD3	1.96	0.48
1:W:555:GLU:HG3	1:W:556:LYS:HD3	1.96	0.48
1:W:590:ALA:HB1	1:Y:486:GLN:HE21	1.79	0.48
1:W:609:ARG:HD2	1:W:633:LEU:O	2.14	0.48
1:a:470:ILE:HG22	1:8:270:ASN:HA	1.95	0.48
1:b:689:GLU:OE2	1:c:298:ARG:NH2	2.44	0.48
1:e:609:ARG:HD2	1:e:633:LEU:O	2.14	0.48
1:q:555:GLU:HG3	1:q:556:LYS:HD3	1.96	0.48
1:r:342:VAL:HG22	1:r:648:ILE:HD12	1.94	0.48
1:r:609:ARG:HD2	1:r:633:LEU:O	2.14	0.48
1:s:657:PRO:HB3	1:s:666:PHE:HZ	1.78	0.48
1:t:612:TYR:CE1	1:t:727:GLY:HA3	2.48	0.48
1:u:319:GLN:O	1:u:675:THR:N	2.37	0.48
1:v:612:TYR:CE1	1:v:727:GLY:HA3	2.48	0.48
1:x:711:ASP:OD2	1:x:724:ARG:NH1	2.46	0.48
1:z:404:ARG:NH1	1:4:221:VAL:O	2.43	0.48
1:3:240:ILE:CG2	1:3:681:GLU:OE2	2.61	0.48
1:6:273:PHE:CE2	1:6:386:ALA:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:590:ALA:HB1	1:7:486:GLN:HE21	1.79	0.48
1:6:609:ARG:HD2	1:6:633:LEU:O	2.14	0.48
1:8:239:VAL:CG1	1:8:684:TRP:HB2	2.43	0.48
1:A:365:PHE:CD1	1:A:366:PRO:CD	2.95	0.48
1:A:612:TYR:CE1	1:A:727:GLY:HA3	2.48	0.48
1:C:711:ASP:OD2	1:C:724:ARG:NH1	2.46	0.48
1:D:612:TYR:CE1	1:D:727:GLY:HA3	2.48	0.48
1:E:590:ALA:HB1	1:Q:486:GLN:HE21	1.79	0.48
1:F:239:VAL:CG1	1:F:684:TRP:HB2	2.43	0.48
1:F:273:PHE:CE2	1:F:386:ALA:HB2	2.48	0.48
1:G:240:ILE:CG2	1:G:681:GLU:OE2	2.61	0.48
1:H:385:GLN:OE1	1:Z:706:LYS:CD	2.61	0.48
1:H:590:ALA:HB1	1:W:486:GLN:HE21	1.79	0.48
1:I:319:GLN:O	1:I:675:THR:N	2.37	0.48
1:K:221:VAL:O	1:L:404:ARG:NH1	2.43	0.48
1:K:239:VAL:CG1	1:K:684:TRP:HB2	2.43	0.48
1:M:270:ASN:HA	1:b:470:ILE:HG22	1.95	0.48
1:M:619:ALA:HB3	1:M:632:PRO:CG	2.44	0.48
1:M:714:VAL:HG23	1:M:714:VAL:O	2.12	0.48
1:O:354:LEU:HA	1:O:354:LEU:HD23	1.61	0.48
1:O:555:GLU:HG3	1:O:556:LYS:HD3	1.96	0.48
1:P:612:TYR:CE1	1:P:727:GLY:HA3	2.48	0.48
1:S:609:ARG:HD2	1:S:633:LEU:O	2.14	0.48
1:T:239:VAL:CG1	1:T:684:TRP:HB2	2.43	0.48
1:U:484:ARG:NH1	1:U:575:GLN:HB3	2.29	0.48
1:V:385:GLN:OE1	1:W:706:LYS:CD	2.61	0.48
1:Z:270:ASN:HA	1:3:470:ILE:HG22	1.95	0.48
1:a:240:ILE:CG2	1:a:681:GLU:OE2	2.61	0.48
1:c:609:ARG:HD2	1:c:633:LEU:O	2.14	0.48
1:d:365:PHE:CD1	1:d:366:PRO:CD	2.95	0.48
1:f:711:ASP:OD2	1:f:724:ARG:NH1	2.46	0.48
1:g:714:VAL:O	1:g:714:VAL:HG23	2.12	0.48
1:h:619:ALA:HB3	1:h:632:PRO:CG	2.44	0.48
1:i:240:ILE:CG2	1:i:681:GLU:OE2	2.61	0.48
1:i:365:PHE:CD1	1:i:366:PRO:CD	2.95	0.48
1:i:657:PRO:HB3	1:i:666:PHE:HZ	1.78	0.48
1:j:657:PRO:HB3	1:j:666:PHE:HZ	1.78	0.48
1:k:612:TYR:CE1	1:k:727:GLY:HA3	2.48	0.48
1:l:657:PRO:HB3	1:l:666:PHE:HZ	1.78	0.48
1:m:470:ILE:HG22	1:n:270:ASN:HA	1.94	0.48
1:p:619:ALA:HB3	1:p:632:PRO:CG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:689:GLU:OE2	1:s:298:ARG:NH2	2.44	0.48
1:s:273:PHE:CE2	1:s:386:ALA:HB2	2.48	0.48
1:s:484:ARG:NH1	1:s:575:GLN:HB3	2.29	0.48
1:s:711:ASP:OD2	1:s:724:ARG:NH1	2.45	0.48
1:t:240:ILE:CG2	1:t:681:GLU:OE2	2.61	0.48
1:u:342:VAL:HG22	1:u:648:ILE:HD12	1.94	0.48
1:v:365:PHE:CD1	1:v:366:PRO:CD	2.95	0.48
1:w:365:PHE:CD1	1:w:366:PRO:CD	2.95	0.48
1:z:270:ASN:HA	1:2:470:ILE:HG22	1.95	0.48
1:4:239:VAL:CG1	1:4:684:TRP:HB2	2.43	0.48
1:5:470:ILE:HG22	1:6:270:ASN:HA	1.95	0.48
1:8:619:ALA:HB3	1:8:632:PRO:CG	2.44	0.48
1:A:486:GLN:HE21	1:I:590:ALA:HB1	1.79	0.48
1:A:657:PRO:HB3	1:A:666:PHE:HZ	1.78	0.48
1:B:484:ARG:NH1	1:B:575:GLN:HB3	2.29	0.48
1:B:555:GLU:HG3	1:B:556:LYS:HD3	1.96	0.48
1:B:711:ASP:OD2	1:B:724:ARG:NH1	2.45	0.48
1:C:555:GLU:HG3	1:C:556:LYS:HD3	1.96	0.48
1:I:273:PHE:CE2	1:I:386:ALA:HB2	2.48	0.48
1:J:484:ARG:NH1	1:J:575:GLN:HB3	2.29	0.48
1:M:609:ARG:HH21	1:M:609:ARG:CG	2.26	0.48
1:N:365:PHE:CD1	1:N:366:PRO:CD	2.95	0.48
1:P:619:ALA:HB3	1:P:632:PRO:CG	2.44	0.48
1:Q:714:VAL:HG23	1:Q:714:VAL:O	2.12	0.48
1:R:239:VAL:CG1	1:R:684:TRP:HB2	2.43	0.48
1:R:365:PHE:CD1	1:R:366:PRO:CD	2.95	0.48
1:R:470:ILE:HG22	1:S:270:ASN:HA	1.95	0.48
1:S:240:ILE:CG2	1:S:681:GLU:OE2	2.61	0.48
1:S:342:VAL:HG22	1:S:648:ILE:HD12	1.94	0.48
1:V:619:ALA:HB3	1:V:632:PRO:CG	2.44	0.48
1:W:470:ILE:HG22	1:Y:270:ASN:HA	1.95	0.48
1:W:484:ARG:NH1	1:W:575:GLN:HB3	2.29	0.48
1:Z:619:ALA:HB3	1:Z:632:PRO:CG	2.44	0.48
1:a:657:PRO:HB3	1:a:666:PHE:HZ	1.78	0.48
1:f:470:ILE:HG22	1:h:270:ASN:HA	1.95	0.48
1:g:555:GLU:HG3	1:g:556:LYS:HD3	1.96	0.48
1:g:706:LYS:CD	1:1:385:GLN:OE1	2.61	0.48
1:h:239:VAL:CG1	1:h:684:TRP:HB2	2.43	0.48
1:h:273:PHE:CE2	1:h:386:ALA:HB2	2.48	0.48
1:j:612:TYR:CE1	1:j:727:GLY:HA3	2.48	0.48
1:l:354:LEU:HD23	1:l:354:LEU:HA	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:555:GLU:HG3	1:l:556:LYS:HD3	1.96	0.48
1:m:239:VAL:CG1	1:m:684:TRP:HB2	2.43	0.48
1:q:689:GLU:OE2	1:x:298:ARG:NH2	2.44	0.48
1:t:590:ALA:HB1	1:u:486:GLN:HE21	1.79	0.48
1:u:240:ILE:CG2	1:u:681:GLU:OE2	2.61	0.48
1:w:590:ALA:HB1	1:x:486:GLN:HE21	1.79	0.48
1:y:239:VAL:CG1	1:y:684:TRP:HB2	2.43	0.48
1:y:273:PHE:CE2	1:y:386:ALA:HB2	2.48	0.48
1:1:484:ARG:NH1	1:1:575:GLN:HB3	2.29	0.48
1:1:555:GLU:HG3	1:1:556:LYS:HD3	1.96	0.48
1:2:484:ARG:NH1	1:2:575:GLN:HB3	2.29	0.48
1:4:319:GLN:O	1:4:675:THR:N	2.37	0.48
1:5:385:GLN:OE1	1:8:706:LYS:CD	2.61	0.48
1:6:470:ILE:HG22	1:7:270:ASN:HA	1.95	0.48
1:6:484:ARG:NH1	1:6:575:GLN:HB3	2.29	0.48
1:6:657:PRO:HB3	1:6:666:PHE:HZ	1.78	0.48
1:7:555:GLU:HG3	1:7:556:LYS:HD3	1.96	0.48
1:7:714:VAL:HG23	1:7:714:VAL:O	2.12	0.48
1:8:240:ILE:CG2	1:8:681:GLU:OE2	2.61	0.48
1:A:342:VAL:HG22	1:A:648:ILE:HD12	1.94	0.48
1:B:385:GLN:OE1	1:C:706:LYS:CD	2.61	0.48
1:D:657:PRO:HB3	1:D:666:PHE:HZ	1.78	0.48
1:E:711:ASP:OD2	1:E:724:ARG:NH1	2.46	0.48
1:F:484:ARG:NH1	1:F:575:GLN:HB3	2.29	0.48
1:G:590:ALA:HB1	1:I:486:GLN:HE21	1.79	0.48
1:I:240:ILE:CG2	1:I:681:GLU:OE2	2.61	0.48
1:I:365:PHE:CD1	1:I:366:PRO:CD	2.95	0.48
1:K:319:GLN:O	1:K:675:THR:N	2.37	0.48
1:K:452:SER:OG	1:K:455:THR:O	2.31	0.48
1:K:484:ARG:NH1	1:K:575:GLN:HB3	2.29	0.48
1:M:239:VAL:CG1	1:M:684:TRP:HB2	2.43	0.48
1:M:273:PHE:CE2	1:M:386:ALA:HB2	2.48	0.48
1:N:484:ARG:NH1	1:N:575:GLN:HB3	2.29	0.48
1:O:590:ALA:HB1	1:m:486:GLN:HE21	1.79	0.48
1:O:657:PRO:HB3	1:O:666:PHE:HZ	1.78	0.48
1:P:711:ASP:OD2	1:P:724:ARG:NH1	2.46	0.48
1:Q:555:GLU:HG3	1:Q:556:LYS:HD3	1.96	0.48
1:Q:657:PRO:HB3	1:Q:666:PHE:HZ	1.78	0.48
1:S:555:GLU:HG3	1:S:556:LYS:HD3	1.96	0.48
1:S:619:ALA:HB3	1:S:632:PRO:CG	2.44	0.48
1:T:342:VAL:HG22	1:T:648:ILE:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:657:PRO:HB3	1:W:666:PHE:HZ	1.78	0.48
1:Y:484:ARG:NH1	1:Y:575:GLN:HB3	2.29	0.48
1:Y:555:GLU:HG3	1:Y:556:LYS:HD3	1.96	0.48
1:a:590:ALA:HB1	1:8:486:GLN:HE21	1.79	0.48
1:b:555:GLU:HG3	1:b:556:LYS:HD3	1.96	0.48
1:b:711:ASP:OD2	1:b:724:ARG:NH1	2.46	0.48
1:d:239:VAL:CG1	1:d:684:TRP:HB2	2.43	0.48
1:e:239:VAL:CG1	1:e:684:TRP:HB2	2.43	0.48
1:e:619:ALA:HB3	1:e:632:PRO:CG	2.44	0.48
1:f:385:GLN:OE1	1:z:706:LYS:CD	2.61	0.48
1:f:484:ARG:NH1	1:f:575:GLN:HB3	2.29	0.48
1:f:555:GLU:HG3	1:f:556:LYS:HD3	1.96	0.48
1:g:385:GLN:OE1	1:k:706:LYS:CD	2.61	0.48
1:g:711:ASP:OD2	1:g:724:ARG:NH1	2.46	0.48
1:h:706:LYS:CD	1:i:385:GLN:OE1	2.61	0.48
1:i:484:ARG:NH1	1:i:575:GLN:HB3	2.29	0.48
1:j:619:ALA:HB3	1:j:632:PRO:CG	2.44	0.48
1:n:365:PHE:CD1	1:n:366:PRO:CD	2.95	0.48
1:o:240:ILE:CG2	1:o:681:GLU:OE2	2.61	0.48
1:r:239:VAL:CG1	1:r:684:TRP:HB2	2.43	0.48
1:r:240:ILE:CG2	1:r:681:GLU:OE2	2.61	0.48
1:r:555:GLU:HG3	1:r:556:LYS:HD3	1.96	0.48
1:u:273:PHE:CE2	1:u:386:ALA:HB2	2.48	0.48
1:u:590:ALA:HB1	1:v:486:GLN:HE21	1.79	0.48
1:u:612:TYR:CE1	1:u:727:GLY:HA3	2.48	0.48
1:v:342:VAL:HG22	1:v:648:ILE:HD12	1.94	0.48
1:x:555:GLU:HG3	1:x:556:LYS:HD3	1.96	0.48
1:x:714:VAL:HG23	1:x:714:VAL:O	2.12	0.48
1:y:365:PHE:CD1	1:y:366:PRO:CD	2.95	0.48
1:y:484:ARG:NH1	1:y:575:GLN:HB3	2.29	0.48
1:1:711:ASP:OD2	1:1:724:ARG:NH1	2.45	0.48
1:2:354:LEU:HA	1:2:354:LEU:HD23	1.61	0.48
1:3:657:PRO:HB3	1:3:666:PHE:HZ	1.78	0.48
1:4:365:PHE:CD1	1:4:366:PRO:CD	2.95	0.48
1:4:484:ARG:NH1	1:4:575:GLN:HB3	2.29	0.48
1:5:590:ALA:HB1	1:6:486:GLN:HE21	1.79	0.48
1:A:590:ALA:HB1	1:G:486:GLN:HE21	1.79	0.47
1:A:706:LYS:CD	1:E:385:GLN:OE1	2.61	0.47
1:B:342:VAL:HG22	1:B:648:ILE:HD12	1.94	0.47
1:C:385:GLN:OE1	1:D:706:LYS:CD	2.61	0.47
1:F:365:PHE:CD1	1:F:366:PRO:CD	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:484:ARG:NH1	1:G:575:GLN:HB3	2.29	0.47
1:I:612:TYR:CE1	1:I:727:GLY:HA3	2.48	0.47
1:K:612:TYR:CE1	1:K:727:GLY:HA3	2.48	0.47
1:L:706:LYS:CD	1:b:385:GLN:OE1	2.61	0.47
1:N:429:SER:HA	1:N:567:THR:HB	1.96	0.47
1:O:429:SER:HA	1:O:567:THR:HB	1.96	0.47
1:Q:298:ARG:NH2	1:R:689:GLU:OE2	2.44	0.47
1:R:429:SER:HA	1:R:567:THR:HB	1.96	0.47
1:R:590:ALA:HB1	1:S:486:GLN:HE21	1.79	0.47
1:R:619:ALA:HB3	1:R:632:PRO:CG	2.44	0.47
1:S:239:VAL:CG1	1:S:684:TRP:HB2	2.43	0.47
1:S:242:THR:CG2	1:S:681:GLU:CG	2.81	0.47
1:T:486:GLN:HE21	1:l:590:ALA:HB1	1.79	0.47
1:U:298:ARG:NH2	1:V:689:GLU:OE2	2.44	0.47
1:U:609:ARG:HD2	1:U:633:LEU:O	2.14	0.47
1:X:609:ARG:HD2	1:X:633:LEU:O	2.14	0.47
1:Y:714:VAL:HG23	1:Y:714:VAL:O	2.12	0.47
1:Z:240:ILE:CG2	1:Z:681:GLU:OE2	2.61	0.47
1:a:619:ALA:HB3	1:a:632:PRO:CG	2.44	0.47
1:b:484:ARG:NH1	1:b:575:GLN:HB3	2.29	0.47
1:c:239:VAL:CG1	1:c:684:TRP:HB2	2.43	0.47
1:c:385:GLN:OE1	1:s:706:LYS:CD	2.61	0.47
1:c:619:ALA:HB3	1:c:632:PRO:CG	2.44	0.47
1:h:609:ARG:HH21	1:h:609:ARG:CG	2.26	0.47
1:h:711:ASP:OD2	1:h:724:ARG:NH1	2.46	0.47
1:i:429:SER:HA	1:i:567:THR:HB	1.96	0.47
1:j:711:ASP:OD2	1:j:724:ARG:NH1	2.46	0.47
1:k:555:GLU:HG3	1:k:556:LYS:HD3	1.96	0.47
1:m:342:VAL:HG22	1:m:648:ILE:HD12	1.94	0.47
1:n:239:VAL:CG1	1:n:684:TRP:HB2	2.43	0.47
1:q:239:VAL:CG1	1:q:684:TRP:HB2	2.43	0.47
1:q:365:PHE:CD1	1:q:366:PRO:CD	2.95	0.47
1:q:429:SER:HA	1:q:567:THR:HB	1.96	0.47
1:q:470:ILE:HG22	1:r:270:ASN:HA	1.95	0.47
1:q:619:ALA:HB3	1:q:632:PRO:CG	2.44	0.47
1:r:619:ALA:HB3	1:r:632:PRO:CG	2.44	0.47
1:u:365:PHE:CD1	1:u:366:PRO:CD	2.95	0.47
1:v:657:PRO:HB3	1:v:666:PHE:HZ	1.78	0.47
1:w:711:ASP:OD2	1:w:724:ARG:NH1	2.46	0.47
1:x:235:MET:HE2	1:x:235:MET:HB3	1.75	0.47
1:x:657:PRO:HB3	1:x:666:PHE:HZ	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:429:SER:HA	1:1:567:THR:HB	1.96	0.47
1:3:711:ASP:OD2	1:3:724:ARG:NH1	2.46	0.47
1:4:452:SER:OG	1:4:455:THR:O	2.31	0.47
1:4:612:TYR:CE1	1:4:727:GLY:HA3	2.48	0.47
1:5:657:PRO:HB3	1:5:666:PHE:HZ	1.78	0.47
1:7:484:ARG:NH1	1:7:575:GLN:HB3	2.29	0.47
1:B:429:SER:HA	1:B:567:THR:HB	1.96	0.47
1:D:239:VAL:CG1	1:D:684:TRP:HB2	2.43	0.47
1:D:555:GLU:HG3	1:D:556:LYS:HD3	1.96	0.47
1:E:657:PRO:HB3	1:E:666:PHE:HZ	1.78	0.47
1:H:429:SER:HA	1:H:567:THR:HB	1.96	0.47
1:H:657:PRO:HB3	1:H:666:PHE:HZ	1.78	0.47
1:I:484:ARG:NH1	1:I:575:GLN:HB3	2.29	0.47
1:K:365:PHE:CD1	1:K:366:PRO:CD	2.95	0.47
1:K:609:ARG:HH21	1:K:609:ARG:CG	2.26	0.47
1:K:619:ALA:HB3	1:K:632:PRO:CG	2.44	0.47
1:L:619:ALA:HB3	1:L:632:PRO:CG	2.44	0.47
1:M:486:GLN:HE21	1:b:590:ALA:HB1	1.79	0.47
1:M:706:LYS:CD	1:N:385:GLN:OE1	2.61	0.47
1:M:711:ASP:OD2	1:M:724:ARG:NH1	2.46	0.47
1:O:619:ALA:HB3	1:O:632:PRO:CG	2.44	0.47
1:O:711:ASP:OD2	1:O:724:ARG:NH1	2.46	0.47
1:S:484:ARG:NH1	1:S:575:GLN:HB3	2.29	0.47
1:T:706:LYS:CD	1:U:385:GLN:OE1	2.61	0.47
1:U:706:LYS:CD	1:e:385:GLN:OE1	2.61	0.47
1:X:240:ILE:CG2	1:X:681:GLU:OE2	2.61	0.47
1:X:385:GLN:OE1	1:f:706:LYS:CD	2.61	0.47
1:Z:385:GLN:OE1	1:a:706:LYS:CD	2.61	0.47
1:Z:486:GLN:HE21	1:3:590:ALA:HB1	1.79	0.47
1:a:365:PHE:CD1	1:a:366:PRO:CD	2.95	0.47
1:d:484:ARG:NH1	1:d:575:GLN:HB3	2.29	0.47
1:g:429:SER:HA	1:g:567:THR:HB	1.97	0.47
1:g:619:ALA:HB3	1:g:632:PRO:CG	2.44	0.47
1:g:689:GLU:OE2	1:z:298:ARG:NH2	2.44	0.47
1:k:239:VAL:CG1	1:k:684:TRP:HB2	2.43	0.47
1:k:657:PRO:HB3	1:k:666:PHE:HZ	1.78	0.47
1:l:429:SER:HA	1:l:567:THR:HB	1.96	0.47
1:l:484:ARG:NH1	1:l:575:GLN:HB3	2.29	0.47
1:l:619:ALA:HB3	1:l:632:PRO:CG	2.44	0.47
1:o:609:ARG:HD2	1:o:633:LEU:O	2.14	0.47
1:q:590:ALA:HB1	1:r:486:GLN:HE21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:452:SER:OG	1:s:455:THR:O	2.31	0.47
1:s:609:ARG:HD2	1:s:633:LEU:O	2.14	0.47
1:t:484:ARG:NH1	1:t:575:GLN:HB3	2.29	0.47
1:t:486:GLN:HE21	1:v:590:ALA:HB1	1.79	0.47
1:u:484:ARG:NH1	1:u:575:GLN:HB3	2.29	0.47
1:v:706:LYS:CD	1:w:385:GLN:OE1	2.61	0.47
1:w:240:ILE:CG2	1:w:681:GLU:OE2	2.61	0.47
1:w:609:ARG:HD2	1:w:633:LEU:O	2.14	0.47
1:x:619:ALA:HB3	1:x:632:PRO:CG	2.44	0.47
1:z:486:GLN:HE21	1:2:590:ALA:HB1	1.79	0.47
1:z:619:ALA:HB3	1:z:632:PRO:CG	2.44	0.47
1:1:342:VAL:HG22	1:1:648:ILE:HD12	1.94	0.47
1:1:590:ALA:HB1	1:2:486:GLN:HE21	1.79	0.47
1:3:555:GLU:HG3	1:3:556:LYS:HD3	1.96	0.47
1:3:619:ALA:HB3	1:3:632:PRO:CG	2.44	0.47
1:5:619:ALA:HB3	1:5:632:PRO:CG	2.44	0.47
1:A:609:ARG:HD2	1:A:633:LEU:O	2.14	0.47
1:B:365:PHE:CD1	1:B:366:PRO:CD	2.95	0.47
1:B:619:ALA:HB3	1:B:632:PRO:CG	2.44	0.47
1:C:429:SER:HA	1:C:567:THR:HB	1.97	0.47
1:C:590:ALA:HB1	1:b:486:GLN:HE21	1.79	0.47
1:C:619:ALA:HB3	1:C:632:PRO:CG	2.44	0.47
1:D:298:ARG:NH2	1:M:689:GLU:OE2	2.44	0.47
1:D:484:ARG:NH1	1:D:575:GLN:HB3	2.29	0.47
1:D:609:ARG:HD2	1:D:633:LEU:O	2.14	0.47
1:D:714:VAL:O	1:D:714:VAL:HG23	2.12	0.47
1:E:609:ARG:HD2	1:E:633:LEU:O	2.14	0.47
1:G:555:GLU:HG3	1:G:556:LYS:HD3	1.96	0.47
1:H:619:ALA:HB3	1:H:632:PRO:CG	2.44	0.47
1:I:354:LEU:HD23	1:I:354:LEU:HA	1.61	0.47
1:J:365:PHE:CD1	1:J:366:PRO:CD	2.95	0.47
1:O:484:ARG:NH1	1:O:575:GLN:HB3	2.29	0.47
1:O:714:VAL:O	1:O:714:VAL:HG23	2.12	0.47
1:P:239:VAL:CG1	1:P:684:TRP:HB2	2.43	0.47
1:Q:619:ALA:HB3	1:Q:632:PRO:CG	2.44	0.47
1:T:429:SER:HA	1:T:567:THR:HB	1.97	0.47
1:T:619:ALA:HB3	1:T:632:PRO:CG	2.44	0.47
1:a:555:GLU:HG3	1:a:556:LYS:HD3	1.96	0.47
1:a:711:ASP:OD2	1:a:724:ARG:NH1	2.46	0.47
1:b:706:LYS:CD	1:o:385:GLN:OE1	2.61	0.47
1:c:429:SER:HA	1:c:567:THR:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:429:SER:HA	1:e:567:THR:HB	1.96	0.47
1:f:590:ALA:HB1	1:h:486:GLN:HE21	1.79	0.47
1:f:619:ALA:HB3	1:f:632:PRO:CG	2.44	0.47
1:h:689:GLU:OE2	1:k:298:ARG:NH2	2.44	0.47
1:m:429:SER:HA	1:m:567:THR:HB	1.97	0.47
1:m:706:LYS:CD	1:s:385:GLN:OE1	2.61	0.47
1:n:484:ARG:NH1	1:n:575:GLN:HB3	2.29	0.47
1:r:484:ARG:NH1	1:r:575:GLN:HB3	2.29	0.47
1:s:239:VAL:CG1	1:s:684:TRP:HB2	2.43	0.47
1:w:657:PRO:HB3	1:w:666:PHE:HZ	1.78	0.47
1:y:240:ILE:CG2	1:y:681:GLU:OE2	2.61	0.47
1:1:365:PHE:CD1	1:1:366:PRO:CD	2.95	0.47
1:3:484:ARG:NH1	1:3:575:GLN:HB3	2.29	0.47
1:3:706:LYS:CD	1:8:385:GLN:OE1	2.61	0.47
1:4:609:ARG:HH21	1:4:609:ARG:CG	2.26	0.47
1:4:619:ALA:HB3	1:4:632:PRO:CG	2.44	0.47
1:5:429:SER:HA	1:5:567:THR:HB	1.96	0.47
1:7:609:ARG:HD2	1:7:633:LEU:O	2.14	0.47
1:8:657:PRO:HB3	1:8:666:PHE:HZ	1.78	0.47
1:B:590:ALA:HB1	1:J:486:GLN:HE21	1.79	0.47
1:C:508:TYR:CD1	1:C:517:VAL:HG22	2.50	0.47
1:E:240:ILE:CG2	1:E:681:GLU:OE2	2.61	0.47
1:E:470:ILE:HG22	1:Q:270:ASN:HA	1.94	0.47
1:F:240:ILE:CG2	1:F:681:GLU:OE2	2.61	0.47
1:F:555:GLU:HG3	1:F:556:LYS:HD3	1.96	0.47
1:F:609:ARG:HD2	1:F:633:LEU:O	2.14	0.47
1:I:657:PRO:HB3	1:I:666:PHE:HZ	1.78	0.47
1:J:590:ALA:HB1	1:L:486:GLN:HE21	1.79	0.47
1:K:429:SER:HA	1:K:567:THR:HB	1.97	0.47
1:K:657:PRO:HB3	1:K:666:PHE:HZ	1.78	0.47
1:M:429:SER:HA	1:M:567:THR:HB	1.96	0.47
1:N:711:ASP:OD2	1:N:724:ARG:NH1	2.46	0.47
1:U:239:VAL:CG1	1:U:684:TRP:HB2	2.43	0.47
1:U:452:SER:OG	1:U:455:THR:O	2.31	0.47
1:Y:609:ARG:HD2	1:Y:633:LEU:O	2.14	0.47
1:a:484:ARG:NH1	1:a:575:GLN:HB3	2.29	0.47
1:b:619:ALA:HB3	1:b:632:PRO:CG	2.44	0.47
1:c:486:GLN:HE21	1:p:590:ALA:HB1	1.79	0.47
1:d:609:ARG:HD2	1:d:633:LEU:O	2.14	0.47
1:f:508:TYR:CD1	1:f:517:VAL:HG22	2.50	0.47
1:f:609:ARG:HD2	1:f:633:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:508:TYR:CD1	1:g:517:VAL:HG22	2.50	0.47
1:h:429:SER:HA	1:h:567:THR:HB	1.96	0.47
1:j:239:VAL:CG1	1:j:684:TRP:HB2	2.43	0.47
1:j:242:THR:CG2	1:j:681:GLU:CG	2.81	0.47
1:j:609:ARG:HD2	1:j:633:LEU:O	2.14	0.47
1:k:484:ARG:NH1	1:k:575:GLN:HB3	2.29	0.47
1:k:609:ARG:HD2	1:k:633:LEU:O	2.14	0.47
1:l:609:ARG:HD2	1:l:633:LEU:O	2.14	0.47
1:m:619:ALA:HB3	1:m:632:PRO:CG	2.44	0.47
1:n:609:ARG:HD2	1:n:633:LEU:O	2.14	0.47
1:r:242:THR:CG2	1:r:681:GLU:CG	2.81	0.47
1:t:555:GLU:HG3	1:t:556:LYS:HD3	1.96	0.47
1:u:609:ARG:HD2	1:u:633:LEU:O	2.14	0.47
1:u:657:PRO:HB3	1:u:666:PHE:HZ	1.78	0.47
1:v:609:ARG:HD2	1:v:633:LEU:O	2.14	0.47
1:w:470:ILE:HG22	1:x:270:ASN:HA	1.94	0.47
1:y:452:SER:OG	1:y:455:THR:O	2.31	0.47
1:y:609:ARG:HD2	1:y:633:LEU:O	2.14	0.47
1:1:619:ALA:HB3	1:1:632:PRO:CG	2.44	0.47
1:3:365:PHE:CD1	1:3:366:PRO:CD	2.95	0.47
1:3:486:GLN:HE21	1:4:590:ALA:HB1	1.79	0.47
1:B:612:TYR:CE1	1:B:727:GLY:HA3	2.48	0.47
1:C:486:GLN:HE21	1:M:590:ALA:HB1	1.79	0.47
1:C:689:GLU:OE2	1:L:298:ARG:NH2	2.44	0.47
1:D:590:ALA:HB1	1:N:486:GLN:HE21	1.79	0.47
1:D:619:ALA:HB3	1:D:632:PRO:CG	2.44	0.47
1:I:609:ARG:HD2	1:I:633:LEU:O	2.14	0.47
1:O:609:ARG:HD2	1:O:633:LEU:O	2.14	0.47
1:P:609:ARG:HD2	1:P:633:LEU:O	2.14	0.47
1:T:484:ARG:NH1	1:T:575:GLN:HB3	2.29	0.47
1:V:365:PHE:CD1	1:V:366:PRO:CD	2.95	0.47
1:V:590:ALA:HB1	1:e:486:GLN:HE21	1.79	0.47
1:Z:657:PRO:HB3	1:Z:666:PHE:HZ	1.78	0.47
1:b:429:SER:HA	1:b:567:THR:HB	1.96	0.47
1:b:508:TYR:CD1	1:b:517:VAL:HG22	2.50	0.47
1:b:609:ARG:HD2	1:b:633:LEU:O	2.14	0.47
1:c:240:ILE:CG2	1:c:681:GLU:OE2	2.61	0.47
1:d:711:ASP:OD2	1:d:724:ARG:NH1	2.46	0.47
1:f:429:SER:HA	1:f:567:THR:HB	1.96	0.47
1:f:486:GLN:HE21	1:g:590:ALA:HB1	1.79	0.47
1:g:486:GLN:HE21	1:h:590:ALA:HB1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:714:VAL:HG23	1:k:714:VAL:O	2.12	0.47
1:l:711:ASP:OD2	1:l:724:ARG:NH1	2.46	0.47
1:l:714:VAL:HG23	1:l:714:VAL:O	2.12	0.47
1:m:484:ARG:NH1	1:m:575:GLN:HB3	2.29	0.47
1:o:590:ALA:HB1	1:p:486:GLN:HE21	1.79	0.47
1:o:619:ALA:HB3	1:o:632:PRO:CG	2.44	0.47
1:s:619:ALA:HB3	1:s:632:PRO:CG	2.44	0.47
1:w:484:ARG:NH1	1:w:575:GLN:HB3	2.29	0.47
1:w:486:GLN:HE21	1:y:590:ALA:HB1	1.79	0.47
1:y:555:GLU:HG3	1:y:556:LYS:HD3	1.96	0.47
1:y:619:ALA:HB3	1:y:632:PRO:CG	2.44	0.47
1:z:657:PRO:HB3	1:z:666:PHE:HZ	1.78	0.47
1:2:365:PHE:CD1	1:2:366:PRO:CD	2.95	0.47
1:4:429:SER:HA	1:4:567:THR:HB	1.97	0.47
1:4:657:PRO:HB3	1:4:666:PHE:HZ	1.78	0.47
1:B:508:TYR:CD1	1:B:517:VAL:HG22	2.50	0.47
1:E:484:ARG:NH1	1:E:575:GLN:HB3	2.29	0.47
1:E:486:GLN:HE21	1:F:590:ALA:HB1	1.79	0.47
1:F:452:SER:OG	1:F:455:THR:O	2.31	0.47
1:F:619:ALA:HB3	1:F:632:PRO:CG	2.44	0.47
1:G:609:ARG:HD2	1:G:633:LEU:O	2.14	0.47
1:J:711:ASP:OD2	1:J:724:ARG:NH1	2.45	0.47
1:K:590:ALA:HB1	1:a:486:GLN:HE21	1.79	0.47
1:L:657:PRO:HB3	1:L:666:PHE:HZ	1.78	0.47
1:P:242:THR:CG2	1:P:681:GLU:CG	2.81	0.47
1:T:657:PRO:HB3	1:T:666:PHE:HZ	1.78	0.47
1:U:619:ALA:HB3	1:U:632:PRO:CG	2.44	0.47
1:V:429:SER:HA	1:V:567:THR:HB	1.97	0.47
1:V:486:GLN:HE21	1:X:590:ALA:HB1	1.79	0.47
1:V:609:ARG:HD2	1:V:633:LEU:O	2.14	0.47
1:X:486:GLN:HE21	1:e:590:ALA:HB1	1.79	0.47
1:X:619:ALA:HB3	1:X:632:PRO:CG	2.44	0.47
1:Y:239:VAL:CG1	1:Y:684:TRP:HB2	2.43	0.47
1:Z:484:ARG:NH1	1:Z:575:GLN:HB3	2.29	0.47
1:b:273:PHE:CE2	1:b:386:ALA:HB2	2.48	0.47
1:c:484:ARG:NH1	1:c:575:GLN:HB3	2.29	0.47
1:e:240:ILE:CG2	1:e:681:GLU:OE2	2.61	0.47
1:e:484:ARG:NH1	1:e:575:GLN:HB3	2.29	0.47
1:i:486:GLN:HE21	1:k:590:ALA:HB1	1.79	0.47
1:i:609:ARG:HD2	1:i:633:LEU:O	2.14	0.47
1:j:354:LEU:HD23	1:j:354:LEU:HA	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:484:ARG:NH1	1:j:575:GLN:HB3	2.29	0.47
1:k:619:ALA:HB3	1:k:632:PRO:CG	2.44	0.47
1:n:711:ASP:OD2	1:n:724:ARG:NH1	2.46	0.47
1:p:429:SER:HA	1:p:567:THR:HB	1.97	0.47
1:p:609:ARG:HD2	1:p:633:LEU:O	2.14	0.47
1:1:508:TYR:CD1	1:1:517:VAL:HG22	2.50	0.47
1:1:609:ARG:HD2	1:1:633:LEU:O	2.14	0.47
1:1:612:TYR:CE1	1:1:727:GLY:HA3	2.48	0.47
1:2:711:ASP:OD2	1:2:724:ARG:NH1	2.45	0.47
1:7:508:TYR:CD1	1:7:517:VAL:HG22	2.50	0.47
1:8:484:ARG:NH1	1:8:575:GLN:HB3	2.29	0.47
1:B:609:ARG:HD2	1:B:633:LEU:O	2.14	0.47
1:D:711:ASP:OD2	1:D:724:ARG:NH1	2.46	0.47
1:G:354:LEU:HA	1:G:354:LEU:HD23	1.61	0.47
1:G:429:SER:HA	1:G:567:THR:HB	1.96	0.47
1:G:711:ASP:OD2	1:G:724:ARG:NH1	2.46	0.47
1:I:429:SER:HA	1:I:567:THR:HB	1.97	0.47
1:K:555:GLU:HG3	1:K:556:LYS:HD3	1.96	0.47
1:L:555:GLU:HG3	1:L:556:LYS:HD3	1.96	0.47
1:L:609:ARG:HH21	1:L:609:ARG:CG	2.26	0.47
1:M:484:ARG:NH1	1:M:575:GLN:HB3	2.29	0.47
1:M:507:LYS:HA	1:M:517:VAL:HG23	1.97	0.47
1:N:609:ARG:HD2	1:N:633:LEU:O	2.14	0.47
1:N:619:ALA:HB3	1:N:632:PRO:CG	2.44	0.47
1:O:469:ASP:OD1	1:O:469:ASP:N	2.39	0.47
1:P:484:ARG:NH1	1:P:575:GLN:HB3	2.29	0.47
1:U:429:SER:HA	1:U:567:THR:HB	1.96	0.47
1:V:507:LYS:HA	1:V:517:VAL:HG23	1.97	0.47
1:W:619:ALA:HB3	1:W:632:PRO:CG	2.44	0.47
1:X:508:TYR:CD1	1:X:517:VAL:HG22	2.50	0.47
1:Y:508:TYR:CD1	1:Y:517:VAL:HG22	2.50	0.47
1:Y:619:ALA:HB3	1:Y:632:PRO:CG	2.44	0.47
1:Z:452:SER:OG	1:Z:455:THR:O	2.31	0.47
1:c:342:VAL:HG22	1:c:648:ILE:HD12	1.94	0.47
1:c:590:ALA:HB1	1:o:486:GLN:HE21	1.79	0.47
1:e:342:VAL:HG22	1:e:648:ILE:HD12	1.94	0.47
1:f:273:PHE:CE2	1:f:386:ALA:HB2	2.48	0.47
1:h:354:LEU:HA	1:h:354:LEU:HD23	1.61	0.47
1:h:484:ARG:NH1	1:h:575:GLN:HB3	2.29	0.47
1:h:507:LYS:HA	1:h:517:VAL:HG23	1.97	0.47
1:i:452:SER:OG	1:i:455:THR:O	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:711:ASP:OD2	1:i:724:ARG:NH1	2.46	0.47
1:j:429:SER:HA	1:j:567:THR:HB	1.96	0.47
1:k:429:SER:HA	1:k:567:THR:HB	1.96	0.47
1:m:507:LYS:HA	1:m:517:VAL:HG23	1.97	0.47
1:m:657:PRO:HB3	1:m:666:PHE:HZ	1.78	0.47
1:o:508:TYR:CD1	1:o:517:VAL:HG22	2.50	0.47
1:p:365:PHE:CD1	1:p:366:PRO:CD	2.95	0.47
1:p:507:LYS:HA	1:p:517:VAL:HG23	1.97	0.47
1:q:486:GLN:HE21	1:s:590:ALA:HB1	1.79	0.47
1:s:429:SER:HA	1:s:567:THR:HB	1.96	0.47
1:t:429:SER:HA	1:t:567:THR:HB	1.96	0.47
1:t:609:ARG:HD2	1:t:633:LEU:O	2.14	0.47
1:u:354:LEU:HA	1:u:354:LEU:HD23	1.61	0.47
1:u:429:SER:HA	1:u:567:THR:HB	1.97	0.47
1:z:555:GLU:HG3	1:z:556:LYS:HD3	1.96	0.47
1:z:609:ARG:HH21	1:z:609:ARG:CG	2.26	0.47
1:4:555:GLU:HG3	1:4:556:LYS:HD3	1.96	0.47
1:6:619:ALA:HB3	1:6:632:PRO:CG	2.44	0.47
1:7:239:VAL:CG1	1:7:684:TRP:HB2	2.43	0.47
1:D:429:SER:HA	1:D:567:THR:HB	1.96	0.47
1:H:452:SER:OG	1:H:455:THR:O	2.31	0.47
1:H:507:LYS:HA	1:H:517:VAL:HG23	1.97	0.47
1:I:555:GLU:HG3	1:I:556:LYS:HD3	1.96	0.47
1:M:609:ARG:HD2	1:M:633:LEU:O	2.14	0.47
1:N:452:SER:OG	1:N:455:THR:O	2.31	0.47
1:P:354:LEU:HD23	1:P:354:LEU:HA	1.61	0.47
1:P:429:SER:HA	1:P:567:THR:HB	1.96	0.47
1:Q:609:ARG:HD2	1:Q:633:LEU:O	2.14	0.47
1:R:486:GLN:HE21	1:U:590:ALA:HB1	1.79	0.47
1:T:354:LEU:HA	1:T:354:LEU:HD23	1.61	0.47
1:T:507:LYS:HA	1:T:517:VAL:HG23	1.97	0.47
1:X:484:ARG:NH1	1:X:575:GLN:HB3	2.29	0.47
1:X:555:GLU:HG3	1:X:556:LYS:HD3	1.96	0.47
1:d:619:ALA:HB3	1:d:632:PRO:CG	2.44	0.47
1:g:484:ARG:NH1	1:g:575:GLN:HB3	2.29	0.47
1:i:507:LYS:HA	1:i:517:VAL:HG23	1.97	0.47
1:i:590:ALA:HB1	1:j:486:GLN:HE21	1.79	0.47
1:i:619:ALA:HB3	1:i:632:PRO:CG	2.44	0.47
1:k:711:ASP:OD2	1:k:724:ARG:NH1	2.46	0.47
1:o:429:SER:HA	1:o:567:THR:HB	1.96	0.47
1:o:555:GLU:HG3	1:o:556:LYS:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:555:GLU:HG3	1:u:556:LYS:HD3	1.96	0.47
1:x:590:ALA:HB1	1:y:486:GLN:HE21	1.79	0.47
1:2:298:ARG:NH2	1:4:689:GLU:OE2	2.44	0.47
1:8:452:SER:OG	1:8:455:THR:O	2.31	0.47
1:8:609:ARG:HD2	1:8:633:LEU:O	2.14	0.47
1:A:429:SER:HA	1:A:567:THR:HB	1.96	0.47
1:A:555:GLU:HG3	1:A:556:LYS:HD3	1.96	0.47
1:B:486:GLN:HE21	1:L:590:ALA:HB1	1.79	0.47
1:C:484:ARG:NH1	1:C:575:GLN:HB3	2.29	0.47
1:G:507:LYS:HA	1:G:517:VAL:HG23	1.97	0.47
1:H:609:ARG:HD2	1:H:633:LEU:O	2.14	0.47
1:I:619:ALA:HB3	1:I:632:PRO:CG	2.44	0.47
1:J:555:GLU:HG3	1:J:556:LYS:HD3	1.96	0.47
1:K:609:ARG:HD2	1:K:633:LEU:O	2.14	0.47
1:K:711:ASP:OD2	1:K:724:ARG:NH1	2.46	0.47
1:L:452:SER:OG	1:L:455:THR:O	2.31	0.47
1:L:484:ARG:NH1	1:L:575:GLN:HB3	2.29	0.47
1:N:507:LYS:HA	1:N:517:VAL:HG23	1.97	0.47
1:N:590:ALA:HB1	1:P:486:GLN:HE21	1.79	0.47
1:T:609:ARG:HD2	1:T:633:LEU:O	2.14	0.47
1:X:429:SER:HA	1:X:567:THR:HB	1.96	0.47
1:Y:507:LYS:HA	1:Y:517:VAL:HG23	1.97	0.47
1:Z:609:ARG:HD2	1:Z:633:LEU:O	2.14	0.47
1:a:508:TYR:CD1	1:a:517:VAL:HG22	2.50	0.47
1:l:469:ASP:OD1	1:l:469:ASP:N	2.39	0.47
1:n:619:ALA:HB3	1:n:632:PRO:CG	2.44	0.47
1:t:354:LEU:HD23	1:t:354:LEU:HA	1.61	0.47
1:t:507:LYS:HA	1:t:517:VAL:HG23	1.97	0.47
1:t:711:ASP:OD2	1:t:724:ARG:NH1	2.46	0.47
1:v:555:GLU:HG3	1:v:556:LYS:HD3	1.96	0.47
1:z:452:SER:OG	1:z:455:THR:O	2.31	0.47
1:z:484:ARG:NH1	1:z:575:GLN:HB3	2.29	0.47
1:2:555:GLU:HG3	1:2:556:LYS:HD3	1.96	0.47
1:5:452:SER:OG	1:5:455:THR:O	2.31	0.47
1:5:484:ARG:NH1	1:5:575:GLN:HB3	2.29	0.47
1:5:507:LYS:HA	1:5:517:VAL:HG23	1.97	0.47
1:5:555:GLU:HG3	1:5:556:LYS:HD3	1.96	0.47
1:7:365:PHE:CD1	1:7:366:PRO:CD	2.95	0.47
1:7:507:LYS:HA	1:7:517:VAL:HG23	1.97	0.47
1:A:619:ALA:HB3	1:A:632:PRO:CG	2.44	0.47
1:E:235:MET:HE2	1:E:235:MET:HB3	1.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:391:SER:OG	1:Q:693:ARG:HD2	2.15	0.47
1:G:365:PHE:CD1	1:G:366:PRO:CD	2.95	0.47
1:H:484:ARG:NH1	1:H:575:GLN:HB3	2.29	0.47
1:H:555:GLU:HG3	1:H:556:LYS:HD3	1.96	0.47
1:J:507:LYS:HA	1:J:517:VAL:HG23	1.97	0.47
1:R:484:ARG:NH1	1:R:575:GLN:HB3	2.29	0.47
1:Y:365:PHE:CD1	1:Y:366:PRO:CD	2.95	0.47
1:b:507:LYS:HA	1:b:517:VAL:HG23	1.97	0.47
1:f:507:LYS:HA	1:f:517:VAL:HG23	1.97	0.47
1:h:609:ARG:HD2	1:h:633:LEU:O	2.14	0.47
1:m:609:ARG:HD2	1:m:633:LEU:O	2.14	0.47
1:o:484:ARG:NH1	1:o:575:GLN:HB3	2.29	0.47
1:p:484:ARG:NH1	1:p:575:GLN:HB3	2.29	0.47
1:q:484:ARG:NH1	1:q:575:GLN:HB3	2.29	0.47
1:r:508:TYR:CD1	1:r:517:VAL:HG22	2.50	0.47
1:r:657:PRO:HB3	1:r:666:PHE:HZ	1.78	0.47
1:u:619:ALA:HB3	1:u:632:PRO:CG	2.44	0.47
1:v:354:LEU:HA	1:v:354:LEU:HD23	1.61	0.47
1:v:619:ALA:HB3	1:v:632:PRO:CG	2.44	0.47
1:x:452:SER:OG	1:x:455:THR:O	2.31	0.47
1:x:609:ARG:HD2	1:x:633:LEU:O	2.14	0.47
1:x:693:ARG:HD2	1:y:391:SER:OG	2.15	0.47
1:3:508:TYR:CD1	1:3:517:VAL:HG22	2.50	0.47
1:5:609:ARG:HD2	1:5:633:LEU:O	2.14	0.47
1:A:484:ARG:NH1	1:A:575:GLN:HB3	2.29	0.46
1:C:391:SER:OG	1:M:693:ARG:HD2	2.16	0.46
1:F:486:GLN:HE21	1:Q:590:ALA:HB1	1.79	0.46
1:I:452:SER:OG	1:I:455:THR:O	2.31	0.46
1:J:298:ARG:NH2	1:K:689:GLU:OE2	2.44	0.46
1:N:555:GLU:HG3	1:N:556:LYS:HD3	1.96	0.46
1:Q:484:ARG:NH1	1:Q:575:GLN:HB3	2.29	0.46
1:S:508:TYR:CD1	1:S:517:VAL:HG22	2.50	0.46
1:S:657:PRO:HB3	1:S:666:PHE:HZ	1.78	0.46
1:U:555:GLU:HG3	1:U:556:LYS:HD3	1.96	0.46
1:V:484:ARG:NH1	1:V:575:GLN:HB3	2.29	0.46
1:X:391:SER:OG	1:e:693:ARG:HD2	2.15	0.46
1:Z:508:TYR:CD1	1:Z:517:VAL:HG22	2.50	0.46
1:Z:555:GLU:HG3	1:Z:556:LYS:HD3	1.96	0.46
1:g:391:SER:OG	1:h:693:ARG:HD2	2.16	0.46
1:h:508:TYR:CD1	1:h:517:VAL:HG22	2.50	0.46
1:k:508:TYR:CD1	1:k:517:VAL:HG22	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:365:PHE:CD1	1:t:366:PRO:CD	2.95	0.46
1:v:429:SER:HA	1:v:567:THR:HB	1.96	0.46
1:y:507:LYS:HA	1:y:517:VAL:HG23	1.97	0.46
1:z:590:ALA:HB1	1:1:486:GLN:HE21	1.79	0.46
1:2:619:ALA:HB3	1:2:632:PRO:CG	2.44	0.46
1:4:609:ARG:HD2	1:4:633:LEU:O	2.14	0.46
1:A:391:SER:OG	1:I:693:ARG:HD2	2.15	0.46
1:A:507:LYS:HA	1:A:517:VAL:HG23	1.97	0.46
1:D:508:TYR:CD1	1:D:517:VAL:HG22	2.50	0.46
1:H:486:GLN:HE21	1:Y:590:ALA:HB1	1.79	0.46
1:J:619:ALA:HB3	1:J:632:PRO:CG	2.44	0.46
1:M:508:TYR:CD1	1:M:517:VAL:HG22	2.50	0.46
1:T:590:ALA:HB1	1:d:486:GLN:HE21	1.79	0.46
1:V:555:GLU:HG3	1:V:556:LYS:HD3	1.96	0.46
1:V:693:ARG:HD2	1:e:391:SER:OG	2.15	0.46
1:W:693:ARG:HD2	1:Y:391:SER:OG	2.16	0.46
1:a:429:SER:HA	1:a:567:THR:HB	1.96	0.46
1:b:365:PHE:CD1	1:b:366:PRO:CD	2.95	0.46
1:c:693:ARG:HD2	1:o:391:SER:OG	2.15	0.46
1:f:365:PHE:CD1	1:f:366:PRO:CD	2.95	0.46
1:g:507:LYS:HA	1:g:517:VAL:HG23	1.97	0.46
1:n:469:ASP:OD1	1:n:469:ASP:N	2.39	0.46
1:v:242:THR:CG2	1:v:681:GLU:CG	2.81	0.46
1:v:484:ARG:NH1	1:v:575:GLN:HB3	2.29	0.46
1:v:507:LYS:HA	1:v:517:VAL:HG23	1.97	0.46
1:x:484:ARG:NH1	1:x:575:GLN:HB3	2.29	0.46
1:2:507:LYS:HA	1:2:517:VAL:HG23	1.97	0.46
1:4:711:ASP:OD2	1:4:724:ARG:NH1	2.46	0.46
1:5:486:GLN:HE21	1:7:590:ALA:HB1	1.79	0.46
1:6:693:ARG:HD2	1:7:391:SER:OG	2.16	0.46
1:7:711:ASP:OD2	1:7:724:ARG:NH1	2.46	0.46
1:8:508:TYR:CD1	1:8:517:VAL:HG22	2.50	0.46
1:8:555:GLU:HG3	1:8:556:LYS:HD3	1.96	0.46
1:A:242:THR:CG2	1:A:681:GLU:CG	2.81	0.46
1:A:354:LEU:HD23	1:A:354:LEU:HA	1.61	0.46
1:C:507:LYS:HA	1:C:517:VAL:HG23	1.97	0.46
1:C:609:ARG:HD2	1:C:633:LEU:O	2.14	0.46
1:E:693:ARG:HD2	1:Q:391:SER:OG	2.16	0.46
1:F:507:LYS:HA	1:F:517:VAL:HG23	1.97	0.46
1:G:619:ALA:HB3	1:G:632:PRO:CG	2.44	0.46
1:M:251:THR:HG23	1:M:672:GLN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:391:SER:OG	1:n:693:ARG:HD2	2.15	0.46
1:O:693:ARG:HD2	1:m:391:SER:OG	2.16	0.46
1:P:251:THR:HG23	1:P:672:GLN:O	2.16	0.46
1:Q:452:SER:OG	1:Q:455:THR:O	2.31	0.46
1:S:365:PHE:CD1	1:S:366:PRO:CD	2.95	0.46
1:S:507:LYS:HA	1:S:517:VAL:HG23	1.97	0.46
1:T:391:SER:OG	1:l:693:ARG:HD2	2.16	0.46
1:Y:429:SER:HA	1:Y:567:THR:HB	1.96	0.46
1:Z:711:ASP:OD2	1:Z:724:ARG:NH1	2.46	0.46
1:c:391:SER:OG	1:p:693:ARG:HD2	2.15	0.46
1:c:507:LYS:HA	1:c:517:VAL:HG23	1.97	0.46
1:g:298:ARG:NH2	1:z:689:GLU:OE2	2.44	0.46
1:g:609:ARG:HD2	1:g:633:LEU:O	2.14	0.46
1:h:251:THR:HG23	1:h:672:GLN:O	2.16	0.46
1:i:555:GLU:HG3	1:i:556:LYS:HD3	1.96	0.46
1:j:251:THR:HG23	1:j:672:GLN:O	2.16	0.46
1:l:365:PHE:CD1	1:l:366:PRO:CD	2.95	0.46
1:m:555:GLU:HG3	1:m:556:LYS:HD3	1.96	0.46
1:o:251:THR:HG23	1:o:672:GLN:O	2.16	0.46
1:p:555:GLU:HG3	1:p:556:LYS:HD3	1.96	0.46
1:r:507:LYS:HA	1:r:517:VAL:HG23	1.97	0.46
1:s:555:GLU:HG3	1:s:556:LYS:HD3	1.96	0.46
1:t:452:SER:OG	1:t:455:THR:O	2.31	0.46
1:u:693:ARG:HD2	1:v:391:SER:OG	2.15	0.46
1:w:693:ARG:HD2	1:x:391:SER:OG	2.16	0.46
1:z:609:ARG:HD2	1:z:633:LEU:O	2.14	0.46
1:3:429:SER:HA	1:3:567:THR:HB	1.96	0.46
1:4:507:LYS:HA	1:4:517:VAL:HG23	1.97	0.46
1:B:251:THR:HG23	1:B:672:GLN:O	2.16	0.46
1:D:693:ARG:HD2	1:N:391:SER:OG	2.16	0.46
1:E:619:ALA:HB3	1:E:632:PRO:CG	2.44	0.46
1:H:693:ARG:HD2	1:W:391:SER:OG	2.16	0.46
1:K:507:LYS:HA	1:K:517:VAL:HG23	1.97	0.46
1:L:609:ARG:HD2	1:L:633:LEU:O	2.14	0.46
1:O:365:PHE:CD1	1:O:366:PRO:CD	2.95	0.46
1:P:507:LYS:HA	1:P:517:VAL:HG23	1.97	0.46
1:Q:251:THR:HG23	1:Q:672:GLN:O	2.16	0.46
1:T:251:THR:HG23	1:T:672:GLN:O	2.16	0.46
1:T:555:GLU:HG3	1:T:556:LYS:HD3	1.96	0.46
1:V:452:SER:OG	1:V:455:THR:O	2.31	0.46
1:X:251:THR:HG23	1:X:672:GLN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:711:ASP:OD2	1:Y:724:ARG:NH1	2.46	0.46
1:Z:507:LYS:HA	1:Z:517:VAL:HG23	1.97	0.46
1:a:507:LYS:HA	1:a:517:VAL:HG23	1.97	0.46
1:d:693:ARG:HD2	1:l:391:SER:OG	2.15	0.46
1:e:507:LYS:HA	1:e:517:VAL:HG23	1.97	0.46
1:e:555:GLU:HG3	1:e:556:LYS:HD3	1.96	0.46
1:e:580:SER:CA	1:e:592:THR:HG22	2.46	0.46
1:i:469:ASP:OD1	1:i:469:ASP:N	2.39	0.46
1:j:507:LYS:HA	1:j:517:VAL:HG23	1.97	0.46
1:l:251:THR:HG23	1:l:672:GLN:O	2.16	0.46
1:p:452:SER:OG	1:p:455:THR:O	2.31	0.46
1:p:508:TYR:CD1	1:p:517:VAL:HG22	2.50	0.46
1:r:365:PHE:CD1	1:r:366:PRO:CD	2.95	0.46
1:t:251:THR:HG23	1:t:672:GLN:O	2.16	0.46
1:t:619:ALA:HB3	1:t:632:PRO:CG	2.44	0.46
1:x:251:THR:HG23	1:x:672:GLN:O	2.16	0.46
1:3:507:LYS:HA	1:3:517:VAL:HG23	1.97	0.46
1:5:693:ARG:HD2	1:6:391:SER:OG	2.16	0.46
1:7:429:SER:HA	1:7:567:THR:HB	1.96	0.46
1:7:619:ALA:HB3	1:7:632:PRO:CG	2.44	0.46
1:8:507:LYS:HA	1:8:517:VAL:HG23	1.97	0.46
1:B:507:LYS:HA	1:B:517:VAL:HG23	1.97	0.46
1:D:507:LYS:HA	1:D:517:VAL:HG23	1.97	0.46
1:F:429:SER:HA	1:F:567:THR:HB	1.96	0.46
1:G:251:THR:HG23	1:G:672:GLN:O	2.16	0.46
1:G:452:SER:OG	1:G:455:THR:O	2.31	0.46
1:I:228:TRP:HB3	1:J:400:SER:O	2.16	0.46
1:M:354:LEU:HA	1:M:354:LEU:HD23	1.61	0.46
1:O:251:THR:HG23	1:O:672:GLN:O	2.16	0.46
1:O:507:LYS:HA	1:O:517:VAL:HG23	1.97	0.46
1:Q:580:SER:CA	1:Q:592:THR:HG22	2.46	0.46
1:T:508:TYR:CD1	1:T:517:VAL:HG22	2.50	0.46
1:U:688:LYS:NZ	1:U:688:LYS:HB3	2.31	0.46
1:Z:693:ARG:HD2	1:4:391:SER:OG	2.16	0.46
1:a:235:MET:HE2	1:a:235:MET:HB3	1.74	0.46
1:c:508:TYR:CD1	1:c:517:VAL:HG22	2.50	0.46
1:c:580:SER:CA	1:c:592:THR:HG22	2.46	0.46
1:d:469:ASP:OD1	1:d:469:ASP:N	2.39	0.46
1:i:391:SER:OG	1:k:693:ARG:HD2	2.16	0.46
1:m:251:THR:HG23	1:m:672:GLN:O	2.16	0.46
1:m:590:ALA:HB1	1:n:486:GLN:HE21	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:693:ARG:HD2	1:n:391:SER:OG	2.15	0.46
1:n:609:ARG:HH21	1:n:609:ARG:CG	2.26	0.46
1:q:391:SER:OG	1:s:693:ARG:HD2	2.15	0.46
1:r:469:ASP:OD1	1:r:469:ASP:N	2.39	0.46
1:s:688:LYS:NZ	1:s:688:LYS:HB3	2.31	0.46
1:t:400:SER:O	1:y:228:TRP:HB3	2.16	0.46
1:u:228:TRP:HB3	1:2:400:SER:O	2.16	0.46
1:u:508:TYR:CD1	1:u:517:VAL:HG22	2.50	0.46
1:w:235:MET:HE2	1:w:235:MET:HB3	1.74	0.46
1:w:619:ALA:HB3	1:w:632:PRO:CG	2.44	0.46
1:1:251:THR:HG23	1:1:672:GLN:O	2.16	0.46
1:8:711:ASP:OD2	1:8:724:ARG:NH1	2.46	0.46
1:C:298:ARG:NH2	1:L:689:GLU:OE2	2.44	0.46
1:F:228:TRP:HB3	1:G:400:SER:O	2.16	0.46
1:I:508:TYR:CD1	1:I:517:VAL:HG22	2.50	0.46
1:K:251:THR:HG23	1:K:672:GLN:O	2.16	0.46
1:K:391:SER:OG	1:8:693:ARG:HD2	2.16	0.46
1:P:228:TRP:HB3	1:Q:400:SER:O	2.16	0.46
1:R:391:SER:OG	1:U:693:ARG:HD2	2.15	0.46
1:S:429:SER:HA	1:S:567:THR:HB	1.96	0.46
1:T:693:ARG:HD2	1:d:391:SER:OG	2.15	0.46
1:V:400:SER:O	1:W:228:TRP:HB3	2.16	0.46
1:V:508:TYR:CD1	1:V:517:VAL:HG22	2.50	0.46
1:V:688:LYS:NZ	1:V:688:LYS:HB3	2.31	0.46
1:Y:251:THR:HG23	1:Y:672:GLN:O	2.16	0.46
1:Z:429:SER:HA	1:Z:567:THR:HB	1.96	0.46
1:c:555:GLU:HG3	1:c:556:LYS:HD3	1.96	0.46
1:d:251:THR:HG23	1:d:672:GLN:O	2.16	0.46
1:e:508:TYR:CD1	1:e:517:VAL:HG22	2.50	0.46
1:j:228:TRP:HB3	1:x:400:SER:O	2.16	0.46
1:k:507:LYS:HA	1:k:517:VAL:HG23	1.97	0.46
1:k:580:SER:CA	1:k:592:THR:HG22	2.46	0.46
1:l:507:LYS:HA	1:l:517:VAL:HG23	1.97	0.46
1:m:354:LEU:HA	1:m:354:LEU:HD23	1.61	0.46
1:m:508:TYR:CD1	1:m:517:VAL:HG22	2.50	0.46
1:p:400:SER:O	1:6:228:TRP:HB3	2.16	0.46
1:p:688:LYS:NZ	1:p:688:LYS:HB3	2.31	0.46
1:x:580:SER:CA	1:x:592:THR:HG22	2.46	0.46
1:z:365:PHE:CD1	1:z:366:PRO:CD	2.95	0.46
1:1:507:LYS:HA	1:1:517:VAL:HG23	1.97	0.46
1:3:228:TRP:HB3	1:8:400:SER:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:251:THR:HG23	1:4:672:GLN:O	2.16	0.46
1:6:508:TYR:CD1	1:6:517:VAL:HG22	2.50	0.46
1:7:251:THR:HG23	1:7:672:GLN:O	2.16	0.46
1:8:429:SER:HA	1:8:567:THR:HB	1.96	0.46
1:A:251:THR:HG23	1:A:672:GLN:O	2.16	0.46
1:D:251:THR:HG23	1:D:672:GLN:O	2.16	0.46
1:D:580:SER:CA	1:D:592:THR:HG22	2.46	0.46
1:E:429:SER:HA	1:E:567:THR:HB	1.96	0.46
1:F:400:SER:O	1:R:228:TRP:HB3	2.16	0.46
1:H:711:ASP:OD2	1:H:724:ARG:NH1	2.46	0.46
1:L:365:PHE:CD1	1:L:366:PRO:CD	2.95	0.46
1:L:429:SER:HA	1:L:567:THR:HB	1.96	0.46
1:L:688:LYS:NZ	1:L:688:LYS:HB3	2.31	0.46
1:M:391:SER:OG	1:b:693:ARG:HD2	2.15	0.46
1:N:469:ASP:OD1	1:N:469:ASP:N	2.39	0.46
1:Q:507:LYS:HA	1:Q:517:VAL:HG23	1.97	0.46
1:X:688:LYS:NZ	1:X:688:LYS:HB3	2.31	0.46
1:Z:400:SER:O	1:a:228:TRP:HB3	2.16	0.46
1:f:693:ARG:HD2	1:h:391:SER:OG	2.15	0.46
1:g:251:THR:HG23	1:g:672:GLN:O	2.16	0.46
1:n:251:THR:HG23	1:n:672:GLN:O	2.16	0.46
1:n:400:SER:O	1:r:228:TRP:HB3	2.16	0.46
1:o:688:LYS:NZ	1:o:688:LYS:HB3	2.31	0.46
1:p:251:THR:HG23	1:p:672:GLN:O	2.16	0.46
1:t:580:SER:CA	1:t:592:THR:HG22	2.46	0.46
1:u:688:LYS:NZ	1:u:688:LYS:HB3	2.31	0.46
1:x:507:LYS:HA	1:x:517:VAL:HG23	1.97	0.46
1:y:429:SER:HA	1:y:567:THR:HB	1.96	0.46
1:z:688:LYS:NZ	1:z:688:LYS:HB3	2.31	0.46
1:6:429:SER:HA	1:6:567:THR:HB	1.96	0.46
1:C:251:THR:HG23	1:C:672:GLN:O	2.16	0.46
1:E:688:LYS:NZ	1:E:688:LYS:HB3	2.31	0.46
1:F:508:TYR:CD1	1:F:517:VAL:HG22	2.50	0.46
1:G:580:SER:CA	1:G:592:THR:HG22	2.46	0.46
1:I:688:LYS:NZ	1:I:688:LYS:HB3	2.31	0.46
1:K:580:SER:CA	1:K:592:THR:HG22	2.46	0.46
1:L:507:LYS:HA	1:L:517:VAL:HG23	1.97	0.46
1:Q:228:TRP:HB3	1:S:400:SER:O	2.16	0.46
1:Q:429:SER:HA	1:Q:567:THR:HB	1.97	0.46
1:R:688:LYS:NZ	1:R:688:LYS:HB3	2.31	0.46
1:S:228:TRP:HB3	1:d:400:SER:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:688:LYS:NZ	1:S:688:LYS:HB3	2.31	0.46
1:U:507:LYS:HA	1:U:517:VAL:HG23	1.97	0.46
1:U:620:LYS:HB2	1:U:642:PRO:HG3	1.98	0.46
1:V:251:THR:HG23	1:V:672:GLN:O	2.16	0.46
1:W:429:SER:HA	1:W:567:THR:HB	1.96	0.46
1:W:508:TYR:CD1	1:W:517:VAL:HG22	2.50	0.46
1:b:228:TRP:HB3	1:o:400:SER:O	2.16	0.46
1:c:400:SER:O	1:s:228:TRP:HB3	2.16	0.46
1:d:609:ARG:HH21	1:d:609:ARG:CG	2.26	0.46
1:k:251:THR:HG23	1:k:672:GLN:O	2.16	0.46
1:k:469:ASP:OD1	1:k:469:ASP:N	2.39	0.46
1:q:228:TRP:HB3	1:y:400:SER:O	2.16	0.46
1:q:688:LYS:NZ	1:q:688:LYS:HB3	2.31	0.46
1:r:400:SER:O	1:x:228:TRP:HB3	2.16	0.46
1:r:429:SER:HA	1:r:567:THR:HB	1.96	0.46
1:r:580:SER:CA	1:r:592:THR:HG22	2.46	0.46
1:r:688:LYS:NZ	1:r:688:LYS:HB3	2.31	0.46
1:s:620:LYS:HB2	1:s:642:PRO:HG3	1.98	0.46
1:t:228:TRP:HB3	1:6:400:SER:O	2.16	0.46
1:t:693:ARG:HD2	1:u:391:SER:OG	2.16	0.46
1:v:251:THR:HG23	1:v:672:GLN:O	2.16	0.46
1:w:429:SER:HA	1:w:567:THR:HB	1.96	0.46
1:x:429:SER:HA	1:x:567:THR:HB	1.97	0.46
1:y:251:THR:HG23	1:y:672:GLN:O	2.16	0.46
1:y:508:TYR:CD1	1:y:517:VAL:HG22	2.50	0.46
1:z:429:SER:HA	1:z:567:THR:HB	1.96	0.46
1:z:508:TYR:CD1	1:z:517:VAL:HG22	2.50	0.46
1:1:246:THR:HG1	1:1:677:GLN:HE21	1.57	0.46
1:4:580:SER:CA	1:4:592:THR:HG22	2.46	0.46
1:5:400:SER:O	1:8:228:TRP:HB3	2.16	0.46
1:B:246:THR:HG1	1:B:677:GLN:HE21	1.57	0.46
1:B:580:SER:CA	1:B:592:THR:HG22	2.46	0.46
1:C:620:LYS:HB2	1:C:642:PRO:HG3	1.98	0.46
1:D:620:LYS:HB2	1:D:642:PRO:HG3	1.98	0.46
1:F:251:THR:HG23	1:F:672:GLN:O	2.16	0.46
1:G:228:TRP:HB3	1:W:400:SER:O	2.16	0.46
1:G:693:ARG:HD2	1:I:391:SER:OG	2.16	0.46
1:G:711:ASP:CG	1:G:724:ARG:HH12	2.24	0.46
1:H:400:SER:O	1:Z:228:TRP:HB3	2.16	0.46
1:I:620:LYS:HB2	1:I:642:PRO:HG3	1.98	0.46
1:M:711:ASP:CG	1:M:724:ARG:HH12	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:228:TRP:HB3	1:m:400:SER:O	2.16	0.46
1:O:235:MET:HE2	1:O:235:MET:HB3	1.74	0.46
1:O:508:TYR:CD1	1:O:517:VAL:HG22	2.50	0.46
1:S:469:ASP:OD1	1:S:469:ASP:N	2.39	0.46
1:S:580:SER:CA	1:S:592:THR:HG22	2.46	0.46
1:U:228:TRP:HB3	1:e:400:SER:O	2.16	0.46
1:X:400:SER:O	1:f:228:TRP:HB3	2.16	0.46
1:a:251:THR:HG23	1:a:672:GLN:O	2.16	0.46
1:a:298:ARG:NH2	1:3:689:GLU:OE2	2.44	0.46
1:a:689:GLU:OE2	1:3:298:ARG:NH2	2.44	0.46
1:f:391:SER:OG	1:g:693:ARG:HD2	2.15	0.46
1:g:620:LYS:HB2	1:g:642:PRO:HG3	1.98	0.46
1:h:228:TRP:HB3	1:i:400:SER:O	2.16	0.46
1:h:298:ARG:NH2	1:k:689:GLU:OE2	2.44	0.46
1:k:620:LYS:HB2	1:k:642:PRO:HG3	1.98	0.46
1:n:429:SER:HA	1:n:567:THR:HB	1.96	0.46
1:o:298:ARG:NH2	1:6:689:GLU:OE2	2.44	0.46
1:p:711:ASP:CG	1:p:724:ARG:HH12	2.24	0.46
1:r:251:THR:HG23	1:r:672:GLN:O	2.16	0.46
1:r:289:CYS:SG	1:r:362:LEU:O	2.70	0.46
1:s:507:LYS:HA	1:s:517:VAL:HG23	1.97	0.46
1:t:711:ASP:CG	1:t:724:ARG:HH12	2.24	0.46
1:u:620:LYS:HB2	1:u:642:PRO:HG3	1.98	0.46
1:w:688:LYS:NZ	1:w:688:LYS:HB3	2.31	0.46
1:z:507:LYS:HA	1:z:517:VAL:HG23	1.97	0.46
1:1:580:SER:CA	1:1:592:THR:HG22	2.46	0.46
1:A:400:SER:O	1:B:228:TRP:HB3	2.16	0.46
1:A:693:ARG:HD2	1:G:391:SER:OG	2.15	0.46
1:B:242:THR:CG2	1:B:681:GLU:CG	2.81	0.46
1:B:391:SER:OG	1:L:693:ARG:HD2	2.15	0.46
1:C:693:ARG:HD2	1:b:391:SER:OG	2.15	0.46
1:D:689:GLU:OE2	1:M:298:ARG:NH2	2.44	0.46
1:G:576:TYR:OH	1:G:604:MET:HE2	2.16	0.46
1:H:508:TYR:CD1	1:H:517:VAL:HG22	2.50	0.46
1:J:508:TYR:CD1	1:J:517:VAL:HG22	2.50	0.46
1:J:693:ARG:HD2	1:L:391:SER:OG	2.15	0.46
1:J:711:ASP:CG	1:J:724:ARG:HH12	2.24	0.46
1:K:228:TRP:HB3	1:L:400:SER:O	2.16	0.46
1:L:508:TYR:CD1	1:L:517:VAL:HG22	2.50	0.46
1:M:228:TRP:HB3	1:N:400:SER:O	2.16	0.46
1:M:620:LYS:HB2	1:M:642:PRO:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:400:SER:O	1:d:228:TRP:HB3	2.16	0.46
1:S:251:THR:HG23	1:S:672:GLN:O	2.16	0.46
1:T:400:SER:O	1:i:228:TRP:HB3	2.16	0.46
1:V:711:ASP:CG	1:V:724:ARG:HH12	2.24	0.46
1:Z:620:LYS:HB2	1:Z:642:PRO:HG3	1.98	0.46
1:a:693:ARG:HD2	1:8:391:SER:OG	2.15	0.46
1:d:429:SER:HA	1:d:567:THR:HB	1.96	0.46
1:h:711:ASP:CG	1:h:724:ARG:HH12	2.24	0.46
1:i:693:ARG:HD2	1:j:391:SER:OG	2.16	0.46
1:j:400:SER:O	1:l:228:TRP:HB3	2.16	0.46
1:j:689:GLU:OE2	1:w:298:ARG:NH2	2.44	0.46
1:l:400:SER:O	1:n:228:TRP:HB3	2.16	0.46
1:l:508:TYR:CD1	1:l:517:VAL:HG22	2.50	0.46
1:m:235:MET:HE2	1:m:235:MET:HB3	1.75	0.46
1:t:391:SER:OG	1:v:693:ARG:HD2	2.15	0.46
1:t:576:TYR:OH	1:t:604:MET:HE2	2.16	0.46
1:t:689:GLU:OE2	1:5:298:ARG:NH2	2.44	0.46
1:v:228:TRP:HB3	1:w:400:SER:O	2.16	0.46
1:v:400:SER:O	1:1:228:TRP:HB3	2.16	0.46
1:w:508:TYR:CD1	1:w:517:VAL:HG22	2.50	0.46
1:x:508:TYR:CD1	1:x:517:VAL:HG22	2.50	0.46
1:y:242:THR:CG2	1:y:681:GLU:CG	2.81	0.46
1:z:391:SER:OG	1:2:693:ARG:HD2	2.15	0.46
1:z:400:SER:O	1:4:228:TRP:HB3	2.16	0.46
1:1:242:THR:CG2	1:1:681:GLU:CG	2.81	0.46
1:2:508:TYR:CD1	1:2:517:VAL:HG22	2.50	0.46
1:2:711:ASP:CG	1:2:724:ARG:HH12	2.24	0.46
1:4:576:TYR:OH	1:4:604:MET:HE2	2.17	0.46
1:5:711:ASP:OD2	1:5:724:ARG:NH1	2.46	0.46
1:6:711:ASP:CG	1:6:724:ARG:HH12	2.24	0.46
1:A:228:TRP:HB3	1:E:400:SER:O	2.16	0.45
1:A:416:GLU:OE1	1:A:639:LEU:HB3	2.17	0.45
1:C:400:SER:O	1:D:228:TRP:HB3	2.16	0.45
1:C:416:GLU:OE1	1:C:639:LEU:HB3	2.17	0.45
1:C:576:TYR:OH	1:C:604:MET:HE2	2.17	0.45
1:C:688:LYS:NZ	1:C:688:LYS:HB3	2.31	0.45
1:D:469:ASP:OD1	1:D:469:ASP:N	2.39	0.45
1:E:298:ARG:NH2	1:P:689:GLU:OE2	2.44	0.45
1:E:416:GLU:OE1	1:E:639:LEU:HB3	2.17	0.45
1:E:507:LYS:HA	1:E:517:VAL:HG23	1.97	0.45
1:E:508:TYR:CD1	1:E:517:VAL:HG22	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:242:THR:CG2	1:F:681:GLU:CG	2.81	0.45
1:H:391:SER:OG	1:Y:693:ARG:HD2	2.16	0.45
1:J:228:TRP:HB3	1:a:400:SER:O	2.16	0.45
1:J:429:SER:HA	1:J:567:THR:HB	1.96	0.45
1:K:576:TYR:OH	1:K:604:MET:HE2	2.17	0.45
1:L:620:LYS:HB2	1:L:642:PRO:HG3	1.98	0.45
1:N:693:ARG:HD2	1:P:391:SER:OG	2.16	0.45
1:N:711:ASP:CG	1:N:724:ARG:HH12	2.24	0.45
1:O:228:TRP:HB3	1:P:400:SER:O	2.16	0.45
1:P:341:GLN:O	1:P:648:ILE:HA	2.17	0.45
1:P:416:GLU:OE1	1:P:639:LEU:HB3	2.17	0.45
1:Q:508:TYR:CD1	1:Q:517:VAL:HG22	2.50	0.45
1:R:693:ARG:HD2	1:S:391:SER:OG	2.15	0.45
1:W:507:LYS:HA	1:W:517:VAL:HG23	1.97	0.45
1:W:576:TYR:OH	1:W:604:MET:HE2	2.16	0.45
1:W:711:ASP:CG	1:W:724:ARG:HH12	2.24	0.45
1:X:576:TYR:OH	1:X:604:MET:HE2	2.16	0.45
1:a:580:SER:CA	1:a:592:THR:HG22	2.46	0.45
1:a:620:LYS:HB2	1:a:642:PRO:HG3	1.98	0.45
1:b:251:THR:HG23	1:b:672:GLN:O	2.16	0.45
1:b:576:TYR:OH	1:b:604:MET:HE2	2.16	0.45
1:c:688:LYS:HB3	1:c:688:LYS:NZ	2.31	0.45
1:c:711:ASP:CG	1:c:724:ARG:HH12	2.24	0.45
1:d:620:LYS:HB2	1:d:642:PRO:HG3	1.98	0.45
1:f:576:TYR:OH	1:f:604:MET:HE2	2.16	0.45
1:g:416:GLU:OE1	1:g:639:LEU:HB3	2.17	0.45
1:g:576:TYR:OH	1:g:604:MET:HE2	2.17	0.45
1:h:620:LYS:HB2	1:h:642:PRO:HG3	1.98	0.45
1:i:711:ASP:CG	1:i:724:ARG:HH12	2.24	0.45
1:n:620:LYS:HB2	1:n:642:PRO:HG3	1.98	0.45
1:q:620:LYS:HB2	1:q:642:PRO:HG3	1.98	0.45
1:s:251:THR:HG23	1:s:672:GLN:O	2.16	0.45
1:v:416:GLU:OE1	1:v:639:LEU:HB3	2.17	0.45
1:w:507:LYS:HA	1:w:517:VAL:HG23	1.97	0.45
1:2:429:SER:HA	1:2:567:THR:HB	1.96	0.45
1:3:251:THR:HG23	1:3:672:GLN:O	2.16	0.45
1:3:576:TYR:OH	1:3:604:MET:HE2	2.16	0.45
1:5:508:TYR:CD1	1:5:517:VAL:HG22	2.50	0.45
1:6:507:LYS:HA	1:6:517:VAL:HG23	1.97	0.45
1:8:576:TYR:OH	1:8:604:MET:HE2	2.16	0.45
1:8:620:LYS:HB2	1:8:642:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:341:GLN:O	1:A:648:ILE:HA	2.17	0.45
1:A:576:TYR:OH	1:A:604:MET:HE2	2.16	0.45
1:D:391:SER:OG	1:P:693:ARG:HD2	2.16	0.45
1:F:416:GLU:OE1	1:F:639:LEU:HB3	2.17	0.45
1:I:251:THR:HG23	1:I:672:GLN:O	2.16	0.45
1:N:576:TYR:OH	1:N:604:MET:HE2	2.16	0.45
1:P:576:TYR:OH	1:P:604:MET:HE2	2.16	0.45
1:Q:576:TYR:OH	1:Q:604:MET:HE2	2.17	0.45
1:R:400:SER:O	1:V:228:TRP:HB3	2.16	0.45
1:R:620:LYS:HB2	1:R:642:PRO:HG3	1.98	0.45
1:S:341:GLN:O	1:S:648:ILE:HA	2.17	0.45
1:S:416:GLU:OE1	1:S:639:LEU:HB3	2.17	0.45
1:U:251:THR:HG23	1:U:672:GLN:O	2.16	0.45
1:U:580:SER:CA	1:U:592:THR:HG22	2.46	0.45
1:V:341:GLN:O	1:V:648:ILE:HA	2.17	0.45
1:V:580:SER:CA	1:V:592:THR:HG22	2.46	0.45
1:W:689:GLU:OE2	1:X:298:ARG:NH2	2.44	0.45
1:X:416:GLU:OE1	1:X:639:LEU:HB3	2.17	0.45
1:X:452:SER:OG	1:X:455:THR:O	2.31	0.45
1:Z:391:SER:OG	1:3:693:ARG:HD2	2.15	0.45
1:Z:576:TYR:OH	1:Z:604:MET:HE2	2.16	0.45
1:a:576:TYR:OH	1:a:604:MET:HE2	2.16	0.45
1:b:416:GLU:OE1	1:b:639:LEU:HB3	2.17	0.45
1:c:416:GLU:OE1	1:c:639:LEU:HB3	2.17	0.45
1:e:416:GLU:OE1	1:e:639:LEU:HB3	2.17	0.45
1:e:688:LYS:NZ	1:e:688:LYS:HB3	2.31	0.45
1:e:711:ASP:CG	1:e:724:ARG:HH12	2.24	0.45
1:f:251:THR:HG23	1:f:672:GLN:O	2.16	0.45
1:f:416:GLU:OE1	1:f:639:LEU:HB3	2.17	0.45
1:f:620:LYS:HB2	1:f:642:PRO:HG3	1.98	0.45
1:g:400:SER:O	1:k:228:TRP:HB3	2.16	0.45
1:g:688:LYS:NZ	1:g:688:LYS:HB3	2.31	0.45
1:i:354:LEU:HD23	1:i:354:LEU:HA	1.61	0.45
1:i:576:TYR:OH	1:i:604:MET:HE2	2.16	0.45
1:j:341:GLN:O	1:j:648:ILE:HA	2.17	0.45
1:j:416:GLU:OE1	1:j:639:LEU:HB3	2.17	0.45
1:j:576:TYR:OH	1:j:604:MET:HE2	2.16	0.45
1:l:235:MET:HE2	1:l:235:MET:HB3	1.74	0.45
1:n:452:SER:OG	1:n:455:THR:O	2.31	0.45
1:n:507:LYS:HA	1:n:517:VAL:HG23	1.97	0.45
1:o:228:TRP:HB3	1:7:400:SER:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:416:GLU:OE1	1:o:639:LEU:HB3	2.17	0.45
1:o:576:TYR:OH	1:o:604:MET:HE2	2.16	0.45
1:p:341:GLN:O	1:p:648:ILE:HA	2.17	0.45
1:p:580:SER:CA	1:p:592:THR:HG22	2.46	0.45
1:q:693:ARG:HD2	1:r:391:SER:OG	2.15	0.45
1:r:341:GLN:O	1:r:648:ILE:HA	2.17	0.45
1:r:416:GLU:OE1	1:r:639:LEU:HB3	2.17	0.45
1:v:341:GLN:O	1:v:648:ILE:HA	2.17	0.45
1:v:576:TYR:OH	1:v:604:MET:HE2	2.16	0.45
1:w:416:GLU:OE1	1:w:639:LEU:HB3	2.17	0.45
1:y:416:GLU:OE1	1:y:639:LEU:HB3	2.17	0.45
1:z:620:LYS:HB2	1:z:642:PRO:HG3	1.98	0.45
1:z:693:ARG:HD2	1:1:391:SER:OG	2.15	0.45
1:2:228:TRP:HB3	1:3:400:SER:O	2.16	0.45
1:2:469:ASP:OD1	1:2:469:ASP:N	2.39	0.45
1:2:576:TYR:OH	1:2:604:MET:HE2	2.17	0.45
1:3:235:MET:HE2	1:3:235:MET:HB3	1.74	0.45
1:3:580:SER:CA	1:3:592:THR:HG22	2.46	0.45
1:3:620:LYS:HB2	1:3:642:PRO:HG3	1.98	0.45
1:5:391:SER:OG	1:7:693:ARG:HD2	2.16	0.45
1:6:576:TYR:OH	1:6:604:MET:HE2	2.16	0.45
1:A:620:LYS:HB2	1:A:642:PRO:HG3	1.98	0.45
1:D:711:ASP:CG	1:D:724:ARG:HH12	2.24	0.45
1:G:242:THR:CG2	1:G:681:GLU:CG	2.81	0.45
1:G:688:LYS:NZ	1:G:688:LYS:HB3	2.31	0.45
1:G:689:GLU:OE2	1:H:298:ARG:NH2	2.44	0.45
1:H:688:LYS:NZ	1:H:688:LYS:HB3	2.31	0.45
1:J:576:TYR:OH	1:J:604:MET:HE2	2.17	0.45
1:K:693:ARG:HD2	1:a:391:SER:OG	2.15	0.45
1:L:251:THR:HG23	1:L:672:GLN:O	2.16	0.45
1:N:251:THR:HG23	1:N:672:GLN:O	2.16	0.45
1:N:609:ARG:HH21	1:N:609:ARG:CG	2.26	0.45
1:O:688:LYS:NZ	1:O:688:LYS:HB3	2.31	0.45
1:P:711:ASP:CG	1:P:724:ARG:HH12	2.24	0.45
1:T:580:SER:CA	1:T:592:THR:HG22	2.46	0.45
1:V:354:LEU:HD23	1:V:354:LEU:HA	1.61	0.45
1:W:341:GLN:O	1:W:648:ILE:HA	2.17	0.45
1:W:620:LYS:HB2	1:W:642:PRO:HG3	1.98	0.45
1:X:228:TRP:HB3	1:Y:400:SER:O	2.16	0.45
1:X:507:LYS:HA	1:X:517:VAL:HG23	1.97	0.45
1:Z:251:THR:HG23	1:Z:672:GLN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:341:GLN:O	1:b:648:ILE:HA	2.17	0.45
1:b:452:SER:OG	1:b:455:THR:O	2.31	0.45
1:b:620:LYS:HB2	1:b:642:PRO:HG3	1.98	0.45
1:c:576:TYR:OH	1:c:604:MET:HE2	2.16	0.45
1:d:507:LYS:HA	1:d:517:VAL:HG23	1.97	0.45
1:e:576:TYR:OH	1:e:604:MET:HE2	2.16	0.45
1:f:341:GLN:O	1:f:648:ILE:HA	2.17	0.45
1:l:341:GLN:O	1:l:648:ILE:HA	2.17	0.45
1:l:688:LYS:NZ	1:l:688:LYS:HB3	2.31	0.45
1:m:580:SER:CA	1:m:592:THR:HG22	2.46	0.45
1:o:507:LYS:HA	1:o:517:VAL:HG23	1.97	0.45
1:p:228:TRP:HB3	1:q:400:SER:O	2.16	0.45
1:r:693:ARG:HD2	1:s:391:SER:OG	2.15	0.45
1:s:580:SER:CA	1:s:592:THR:HG22	2.46	0.45
1:t:242:THR:CG2	1:t:681:GLU:CG	2.81	0.45
1:t:620:LYS:HB2	1:t:642:PRO:HG3	1.98	0.45
1:t:688:LYS:NZ	1:t:688:LYS:HB3	2.31	0.45
1:v:620:LYS:HB2	1:v:642:PRO:HG3	1.98	0.45
1:w:391:SER:OG	1:y:693:ARG:HD2	2.15	0.45
1:x:576:TYR:OH	1:x:604:MET:HE2	2.17	0.45
1:5:576:TYR:OH	1:5:604:MET:HE2	2.16	0.45
1:5:688:LYS:NZ	1:5:688:LYS:HB3	2.31	0.45
1:6:341:GLN:O	1:6:648:ILE:HA	2.17	0.45
1:B:693:ARG:HD2	1:J:391:SER:OG	2.15	0.45
1:E:391:SER:OG	1:F:693:ARG:HD2	2.15	0.45
1:F:576:TYR:OH	1:F:604:MET:HE2	2.16	0.45
1:H:576:TYR:OH	1:H:604:MET:HE2	2.16	0.45
1:I:416:GLU:OE1	1:I:639:LEU:HB3	2.17	0.45
1:J:247:TRP:CZ2	1:J:318:ILE:CD1	3.00	0.45
1:J:289:CYS:SG	1:J:362:LEU:O	2.70	0.45
1:K:416:GLU:OE1	1:K:639:LEU:HB3	2.17	0.45
1:K:711:ASP:CG	1:K:724:ARG:HH12	2.24	0.45
1:L:247:TRP:CZ2	1:L:318:ILE:CD1	3.00	0.45
1:L:341:GLN:O	1:L:648:ILE:HA	2.17	0.45
1:L:576:TYR:OH	1:L:604:MET:HE2	2.17	0.45
1:N:416:GLU:OE1	1:N:639:LEU:HB3	2.17	0.45
1:O:341:GLN:O	1:O:648:ILE:HA	2.17	0.45
1:O:576:TYR:OH	1:O:604:MET:HE2	2.16	0.45
1:O:620:LYS:HB2	1:O:642:PRO:HG3	1.98	0.45
1:P:469:ASP:OD1	1:P:469:ASP:N	2.39	0.45
1:Q:711:ASP:CG	1:Q:724:ARG:HH12	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:235:MET:HE2	1:T:235:MET:HB3	1.75	0.45
1:U:576:TYR:OH	1:U:604:MET:HE2	2.17	0.45
1:a:247:TRP:CZ2	1:a:318:ILE:CD1	3.00	0.45
1:c:251:THR:HG23	1:c:672:GLN:O	2.16	0.45
1:i:251:THR:HG23	1:i:672:GLN:O	2.16	0.45
1:i:416:GLU:OE1	1:i:639:LEU:HB3	2.17	0.45
1:j:693:ARG:HD2	1:k:391:SER:OG	2.16	0.45
1:j:711:ASP:CG	1:j:724:ARG:HH12	2.24	0.45
1:k:711:ASP:CG	1:k:724:ARG:HH12	2.24	0.45
1:l:576:TYR:OH	1:l:604:MET:HE2	2.16	0.45
1:l:620:LYS:HB2	1:l:642:PRO:HG3	1.98	0.45
1:n:341:GLN:O	1:n:648:ILE:HA	2.17	0.45
1:n:354:LEU:HA	1:n:354:LEU:HD23	1.61	0.45
1:n:711:ASP:CG	1:n:724:ARG:HH12	2.24	0.45
1:o:247:TRP:CZ2	1:o:318:ILE:CD1	3.00	0.45
1:o:341:GLN:O	1:o:648:ILE:HA	2.17	0.45
1:o:452:SER:OG	1:o:455:THR:O	2.31	0.45
1:o:693:ARG:HD2	1:p:391:SER:OG	2.16	0.45
1:q:341:GLN:O	1:q:648:ILE:HA	2.17	0.45
1:q:576:TYR:OH	1:q:604:MET:HE2	2.17	0.45
1:u:251:THR:HG23	1:u:672:GLN:O	2.16	0.45
1:u:416:GLU:OE1	1:u:639:LEU:HB3	2.17	0.45
1:x:711:ASP:CG	1:x:724:ARG:HH12	2.24	0.45
1:y:620:LYS:HB2	1:y:642:PRO:HG3	1.98	0.45
1:z:247:TRP:CZ2	1:z:318:ILE:CD1	3.00	0.45
1:z:251:THR:HG23	1:z:672:GLN:O	2.16	0.45
1:z:576:TYR:OH	1:z:604:MET:HE2	2.17	0.45
1:1:576:TYR:OH	1:1:604:MET:HE2	2.17	0.45
1:2:247:TRP:CZ2	1:2:318:ILE:CD1	3.00	0.45
1:3:247:TRP:CZ2	1:3:318:ILE:CD1	3.00	0.45
1:4:711:ASP:CG	1:4:724:ARG:HH12	2.24	0.45
1:6:620:LYS:HB2	1:6:642:PRO:HG3	1.98	0.45
1:A:247:TRP:CZ2	1:A:318:ILE:CD1	3.00	0.45
1:B:247:TRP:CZ2	1:B:318:ILE:CD1	3.00	0.45
1:B:341:GLN:O	1:B:648:ILE:HA	2.17	0.45
1:B:576:TYR:OH	1:B:604:MET:HE2	2.17	0.45
1:F:354:LEU:HD23	1:F:354:LEU:HA	1.61	0.45
1:F:620:LYS:HB2	1:F:642:PRO:HG3	1.98	0.45
1:G:620:LYS:HB2	1:G:642:PRO:HG3	1.98	0.45
1:H:580:SER:CA	1:H:592:THR:HG22	2.46	0.45
1:M:400:SER:O	1:c:228:TRP:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:688:LYS:NZ	1:N:688:LYS:HB3	2.31	0.45
1:O:580:SER:CA	1:O:592:THR:HG22	2.46	0.45
1:R:341:GLN:O	1:R:648:ILE:HA	2.17	0.45
1:R:576:TYR:OH	1:R:604:MET:HE2	2.17	0.45
1:S:693:ARG:HD2	1:U:391:SER:OG	2.15	0.45
1:X:247:TRP:CZ2	1:X:318:ILE:CD1	3.00	0.45
1:X:341:GLN:O	1:X:648:ILE:HA	2.17	0.45
1:Y:341:GLN:O	1:Y:648:ILE:HA	2.17	0.45
1:Y:416:GLU:OE1	1:Y:639:LEU:HB3	2.17	0.45
1:Y:620:LYS:HB2	1:Y:642:PRO:HG3	1.98	0.45
1:Y:688:LYS:NZ	1:Y:688:LYS:HB3	2.31	0.45
1:b:247:TRP:CZ2	1:b:318:ILE:CD1	3.00	0.45
1:d:341:GLN:O	1:d:648:ILE:HA	2.17	0.45
1:d:452:SER:OG	1:d:455:THR:O	2.31	0.45
1:d:711:ASP:CG	1:d:724:ARG:HH12	2.24	0.45
1:e:251:THR:HG23	1:e:672:GLN:O	2.16	0.45
1:f:247:TRP:CZ2	1:f:318:ILE:CD1	3.00	0.45
1:f:400:SER:O	1:z:228:TRP:HB3	2.16	0.45
1:g:228:TRP:HB3	1:1:400:SER:O	2.16	0.45
1:g:341:GLN:O	1:g:648:ILE:HA	2.17	0.45
1:h:341:GLN:O	1:h:648:ILE:HA	2.17	0.45
1:i:609:ARG:HH21	1:i:609:ARG:CG	2.26	0.45
1:j:508:TYR:CD1	1:j:517:VAL:HG22	2.50	0.45
1:l:580:SER:CA	1:l:592:THR:HG22	2.46	0.45
1:m:341:GLN:O	1:m:648:ILE:HA	2.17	0.45
1:q:416:GLU:OE1	1:q:639:LEU:HB3	2.17	0.45
1:s:365:PHE:CD1	1:s:366:PRO:CD	2.95	0.45
1:s:576:TYR:OH	1:s:604:MET:HE2	2.17	0.45
1:v:247:TRP:CZ2	1:v:318:ILE:CD1	3.00	0.45
1:v:580:SER:CA	1:v:592:THR:HG22	2.46	0.45
1:x:341:GLN:O	1:x:648:ILE:HA	2.17	0.45
1:x:620:LYS:HB2	1:x:642:PRO:HG3	1.98	0.45
1:y:354:LEU:HD23	1:y:354:LEU:HA	1.61	0.45
1:y:576:TYR:OH	1:y:604:MET:HE2	2.16	0.45
1:z:341:GLN:O	1:z:648:ILE:HA	2.17	0.45
1:z:416:GLU:OE1	1:z:639:LEU:HB3	2.17	0.45
1:1:247:TRP:CZ2	1:1:318:ILE:CD1	3.00	0.45
1:1:341:GLN:O	1:1:648:ILE:HA	2.17	0.45
1:1:693:ARG:HD2	1:2:391:SER:OG	2.15	0.45
1:1:711:ASP:CG	1:1:724:ARG:HH12	2.24	0.45
1:2:416:GLU:OE1	1:2:639:LEU:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:391:SER:OG	1:4:693:ARG:HD2	2.15	0.45
1:4:416:GLU:OE1	1:4:639:LEU:HB3	2.17	0.45
1:5:365:PHE:CD1	1:5:366:PRO:CD	2.95	0.45
1:5:580:SER:CA	1:5:592:THR:HG22	2.46	0.45
1:8:251:THR:HG23	1:8:672:GLN:O	2.16	0.45
1:8:416:GLU:OE1	1:8:639:LEU:HB3	2.17	0.45
1:A:580:SER:CA	1:A:592:THR:HG22	2.46	0.45
1:B:400:SER:O	1:C:228:TRP:HB3	2.16	0.45
1:B:711:ASP:CG	1:B:724:ARG:HH12	2.24	0.45
1:C:341:GLN:O	1:C:648:ILE:HA	2.17	0.45
1:D:365:PHE:CD1	1:D:366:PRO:CD	2.95	0.45
1:D:416:GLU:OE1	1:D:639:LEU:HB3	2.17	0.45
1:E:247:TRP:CZ2	1:E:318:ILE:CD1	3.00	0.45
1:G:247:TRP:CZ2	1:G:318:ILE:CD1	3.00	0.45
1:I:507:LYS:HA	1:I:517:VAL:HG23	1.97	0.45
1:J:416:GLU:OE1	1:J:639:LEU:HB3	2.17	0.45
1:L:416:GLU:OE1	1:L:639:LEU:HB3	2.17	0.45
1:M:341:GLN:O	1:M:648:ILE:HA	2.17	0.45
1:O:247:TRP:CZ2	1:O:318:ILE:CD1	3.00	0.45
1:P:508:TYR:CD1	1:P:517:VAL:HG22	2.50	0.45
1:Q:341:GLN:O	1:Q:648:ILE:HA	2.17	0.45
1:Q:620:LYS:HB2	1:Q:642:PRO:HG3	1.98	0.45
1:R:251:THR:HG23	1:R:672:GLN:O	2.16	0.45
1:R:416:GLU:OE1	1:R:639:LEU:HB3	2.17	0.45
1:T:341:GLN:O	1:T:648:ILE:HA	2.17	0.45
1:V:391:SER:OG	1:X:693:ARG:HD2	2.16	0.45
1:Z:416:GLU:OE1	1:Z:639:LEU:HB3	2.17	0.45
1:e:228:TRP:HB3	1:h:400:SER:O	2.16	0.45
1:j:469:ASP:OD1	1:j:469:ASP:N	2.39	0.45
1:l:247:TRP:CZ2	1:l:318:ILE:CD1	3.00	0.45
1:n:576:TYR:OH	1:n:604:MET:HE2	2.16	0.45
1:o:632:PRO:HD3	1:o:638:GLY:CA	2.47	0.45
1:q:507:LYS:HA	1:q:517:VAL:HG23	1.97	0.45
1:t:247:TRP:CZ2	1:t:318:ILE:CD1	3.00	0.45
1:u:507:LYS:HA	1:u:517:VAL:HG23	1.97	0.45
1:u:576:TYR:OH	1:u:604:MET:HE2	2.17	0.45
1:w:247:TRP:CZ2	1:w:318:ILE:CD1	3.00	0.45
1:w:580:SER:CA	1:w:592:THR:HG22	2.46	0.45
1:2:251:THR:HG23	1:2:672:GLN:O	2.16	0.45
1:3:711:ASP:CG	1:3:724:ARG:HH12	2.24	0.45
1:5:416:GLU:OE1	1:5:639:LEU:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:341:GLN:O	1:7:648:ILE:HA	2.17	0.45
1:7:416:GLU:OE1	1:7:639:LEU:HB3	2.17	0.45
1:7:688:LYS:NZ	1:7:688:LYS:HB3	2.31	0.45
1:8:688:LYS:NZ	1:8:688:LYS:HB3	2.31	0.45
1:A:632:PRO:HD3	1:A:638:GLY:CA	2.47	0.45
1:B:632:PRO:HD3	1:B:638:GLY:CA	2.47	0.45
1:C:711:ASP:CG	1:C:724:ARG:HH12	2.24	0.45
1:E:580:SER:CA	1:E:592:THR:HG22	2.46	0.45
1:H:251:THR:HG23	1:H:672:GLN:O	2.16	0.45
1:H:416:GLU:OE1	1:H:639:LEU:HB3	2.17	0.45
1:I:576:TYR:OH	1:I:604:MET:HE2	2.17	0.45
1:J:251:THR:HG23	1:J:672:GLN:O	2.16	0.45
1:J:469:ASP:OD1	1:J:469:ASP:N	2.39	0.45
1:J:620:LYS:HB2	1:J:642:PRO:HG3	1.98	0.45
1:K:449:ASN:HA	1:K:459:ARG:H	1.82	0.45
1:L:228:TRP:HB3	1:b:400:SER:O	2.16	0.45
1:L:632:PRO:HD3	1:L:638:GLY:CA	2.47	0.45
1:M:416:GLU:OE1	1:M:639:LEU:HB3	2.17	0.45
1:N:314:LYS:CG	1:N:410:THR:HG22	2.46	0.45
1:N:354:LEU:HD23	1:N:354:LEU:HA	1.61	0.45
1:O:632:PRO:HD3	1:O:638:GLY:CA	2.47	0.45
1:S:620:LYS:HB2	1:S:642:PRO:HG3	1.98	0.45
1:T:449:ASN:HA	1:T:459:ARG:H	1.82	0.45
1:U:632:PRO:HD3	1:U:638:GLY:CA	2.47	0.45
1:V:247:TRP:CZ2	1:V:318:ILE:CD1	3.00	0.45
1:V:620:LYS:HB2	1:V:642:PRO:HG3	1.98	0.45
1:X:632:PRO:HD3	1:X:638:GLY:CA	2.47	0.45
1:a:711:ASP:CG	1:a:724:ARG:HH12	2.24	0.45
1:d:576:TYR:OH	1:d:604:MET:HE2	2.16	0.45
1:e:242:THR:CG2	1:e:681:GLU:CG	2.81	0.45
1:g:632:PRO:HD3	1:g:638:GLY:CA	2.47	0.45
1:g:711:ASP:CG	1:g:724:ARG:HH12	2.24	0.45
1:i:688:LYS:NZ	1:i:688:LYS:HB3	2.31	0.45
1:k:416:GLU:OE1	1:k:639:LEU:HB3	2.17	0.45
1:l:632:PRO:HD3	1:l:638:GLY:CA	2.47	0.45
1:m:449:ASN:HA	1:m:459:ARG:H	1.82	0.45
1:n:247:TRP:CZ2	1:n:318:ILE:CD1	3.00	0.45
1:p:247:TRP:CZ2	1:p:318:ILE:CD1	3.00	0.45
1:p:620:LYS:HB2	1:p:642:PRO:HG3	1.98	0.45
1:s:632:PRO:HD3	1:s:638:GLY:CA	2.47	0.45
1:v:632:PRO:HD3	1:v:638:GLY:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:365:PHE:CD1	1:x:366:PRO:CD	2.95	0.45
1:z:632:PRO:HD3	1:z:638:GLY:CA	2.47	0.45
1:1:632:PRO:HD3	1:1:638:GLY:CA	2.47	0.45
1:2:620:LYS:HB2	1:2:642:PRO:HG3	1.98	0.45
1:5:247:TRP:CZ2	1:5:318:ILE:CD1	3.00	0.45
1:5:341:GLN:O	1:5:648:ILE:HA	2.17	0.45
1:6:247:TRP:CZ2	1:6:318:ILE:CD1	3.00	0.45
1:7:620:LYS:HB2	1:7:642:PRO:HG3	1.98	0.45
1:A:314:LYS:CG	1:A:410:THR:HG22	2.46	0.45
1:A:711:ASP:OD2	1:A:724:ARG:NH1	2.46	0.45
1:C:632:PRO:HD3	1:C:638:GLY:CA	2.47	0.45
1:D:449:ASN:HA	1:D:459:ARG:H	1.82	0.45
1:H:247:TRP:CZ2	1:H:318:ILE:CD1	3.00	0.45
1:H:341:GLN:O	1:H:648:ILE:HA	2.17	0.45
1:H:365:PHE:CD1	1:H:366:PRO:CD	2.95	0.45
1:H:632:PRO:HD3	1:H:638:GLY:CA	2.47	0.45
1:I:449:ASN:HA	1:I:459:ARG:H	1.82	0.45
1:J:341:GLN:O	1:J:648:ILE:HA	2.17	0.45
1:M:449:ASN:HA	1:M:459:ARG:H	1.82	0.45
1:P:580:SER:CA	1:P:592:THR:HG22	2.46	0.45
1:Q:365:PHE:CD1	1:Q:366:PRO:CD	2.95	0.45
1:R:507:LYS:HA	1:R:517:VAL:HG23	1.97	0.45
1:R:632:PRO:HD3	1:R:638:GLY:CA	2.47	0.45
1:U:365:PHE:CD1	1:U:366:PRO:CD	2.95	0.45
1:W:247:TRP:CZ2	1:W:318:ILE:CD1	3.00	0.45
1:Y:632:PRO:HD3	1:Y:638:GLY:CA	2.47	0.45
1:Z:688:LYS:NZ	1:Z:688:LYS:HB3	2.31	0.45
1:a:416:GLU:OE1	1:a:639:LEU:HB3	2.17	0.45
1:b:298:ARG:NH2	1:c:689:GLU:OE2	2.44	0.45
1:c:242:THR:CG2	1:c:681:GLU:CG	2.81	0.45
1:d:247:TRP:CZ2	1:d:318:ILE:CD1	3.00	0.45
1:h:416:GLU:OE1	1:h:639:LEU:HB3	2.17	0.45
1:h:449:ASN:HA	1:h:459:ARG:H	1.82	0.45
1:h:580:SER:CA	1:h:592:THR:HG22	2.46	0.45
1:i:314:LYS:CG	1:i:410:THR:HG22	2.46	0.45
1:i:508:TYR:CD1	1:i:517:VAL:HG22	2.50	0.45
1:j:580:SER:CA	1:j:592:THR:HG22	2.46	0.45
1:k:449:ASN:HA	1:k:459:ARG:H	1.82	0.45
1:m:228:TRP:HB3	1:s:400:SER:O	2.16	0.45
1:m:576:TYR:OH	1:m:604:MET:HE2	2.17	0.45
1:n:632:PRO:HD3	1:n:638:GLY:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:688:LYS:NZ	1:n:688:LYS:HB3	2.31	0.45
1:q:251:THR:HG23	1:q:672:GLN:O	2.16	0.45
1:q:298:ARG:NH2	1:x:689:GLU:OE2	2.44	0.45
1:q:632:PRO:HD3	1:q:638:GLY:CA	2.47	0.45
1:r:620:LYS:HB2	1:r:642:PRO:HG3	1.98	0.45
1:s:711:ASP:CG	1:s:724:ARG:HH12	2.24	0.45
1:u:449:ASN:HA	1:u:459:ARG:H	1.82	0.45
1:w:251:THR:HG23	1:w:672:GLN:O	2.16	0.45
1:2:341:GLN:O	1:2:648:ILE:HA	2.17	0.45
1:3:416:GLU:OE1	1:3:639:LEU:HB3	2.17	0.45
1:4:449:ASN:HA	1:4:459:ARG:H	1.82	0.45
1:5:251:THR:HG23	1:5:672:GLN:O	2.16	0.45
1:5:632:PRO:HD3	1:5:638:GLY:CA	2.47	0.45
1:6:632:PRO:HD3	1:6:638:GLY:CA	2.47	0.45
1:7:632:PRO:HD3	1:7:638:GLY:CA	2.47	0.45
1:B:354:LEU:HA	1:B:354:LEU:HD23	1.61	0.45
1:E:251:THR:HG23	1:E:672:GLN:O	2.16	0.45
1:I:341:GLN:O	1:I:648:ILE:HA	2.17	0.45
1:L:314:LYS:HG2	1:L:410:THR:CG2	2.46	0.45
1:L:449:ASN:HA	1:L:459:ARG:H	1.82	0.45
1:L:580:SER:CA	1:L:592:THR:HG22	2.46	0.45
1:L:711:ASP:CG	1:L:724:ARG:HH12	2.24	0.45
1:N:620:LYS:HB2	1:N:642:PRO:HG3	1.98	0.45
1:P:612:TYR:HD1	1:P:726:ILE:C	2.25	0.45
1:Q:689:GLU:OE2	1:R:298:ARG:NH2	2.44	0.45
1:T:576:TYR:OH	1:T:604:MET:HE2	2.17	0.45
1:T:632:PRO:HD3	1:T:638:GLY:CA	2.47	0.45
1:U:711:ASP:CG	1:U:724:ARG:HH12	2.24	0.45
1:V:612:TYR:HD1	1:V:726:ILE:C	2.25	0.45
1:W:416:GLU:OE1	1:W:639:LEU:HB3	2.17	0.45
1:W:632:PRO:HD3	1:W:638:GLY:CA	2.47	0.45
1:Y:612:TYR:HD1	1:Y:726:ILE:C	2.25	0.45
1:d:632:PRO:HD3	1:d:638:GLY:CA	2.47	0.45
1:e:689:GLU:OE2	1:f:298:ARG:NH2	2.44	0.45
1:f:632:PRO:HD3	1:f:638:GLY:CA	2.47	0.45
1:j:612:TYR:HD1	1:j:726:ILE:C	2.25	0.45
1:k:365:PHE:CD1	1:k:366:PRO:CD	2.95	0.45
1:m:632:PRO:HD3	1:m:638:GLY:CA	2.47	0.45
1:p:354:LEU:HD23	1:p:354:LEU:HA	1.61	0.45
1:p:416:GLU:OE1	1:p:639:LEU:HB3	2.17	0.45
1:p:612:TYR:HD1	1:p:726:ILE:C	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:354:LEU:HD23	1:q:354:LEU:HA	1.61	0.45
1:s:449:ASN:HA	1:s:459:ARG:H	1.82	0.45
1:v:314:LYS:CG	1:v:410:THR:HG22	2.46	0.45
1:w:609:ARG:HH21	1:w:609:ARG:CG	2.26	0.45
1:x:469:ASP:OD1	1:x:469:ASP:N	2.39	0.45
1:z:449:ASN:HA	1:z:459:ARG:H	1.82	0.45
1:1:609:ARG:HH21	1:1:609:ARG:CG	2.26	0.45
1:5:711:ASP:CG	1:5:724:ARG:HH12	2.24	0.45
1:7:612:TYR:HD1	1:7:726:ILE:C	2.25	0.45
1:E:620:LYS:HB2	1:E:642:PRO:HG3	1.98	0.45
1:F:688:LYS:NZ	1:F:688:LYS:HB3	2.31	0.45
1:G:341:GLN:O	1:G:648:ILE:HA	2.17	0.45
1:H:711:ASP:CG	1:H:724:ARG:HH12	2.24	0.45
1:J:612:TYR:HD1	1:J:726:ILE:C	2.25	0.45
1:M:580:SER:CA	1:M:592:THR:HG22	2.46	0.45
1:N:508:TYR:CD1	1:N:517:VAL:HG22	2.50	0.45
1:O:711:ASP:CG	1:O:724:ARG:HH12	2.24	0.45
1:Q:612:TYR:HD1	1:Q:726:ILE:C	2.25	0.45
1:R:382:ASN:ND2	1:V:706:LYS:HD3	2.32	0.45
1:S:612:TYR:HD1	1:S:726:ILE:C	2.25	0.45
1:T:228:TRP:HB3	1:U:400:SER:O	2.16	0.45
1:U:247:TRP:CZ2	1:U:318:ILE:CD1	3.00	0.45
1:U:314:LYS:CG	1:U:410:THR:HG22	2.46	0.45
1:U:449:ASN:HA	1:U:459:ARG:H	1.82	0.45
1:V:416:GLU:OE1	1:V:639:LEU:HB3	2.17	0.45
1:X:612:TYR:HD1	1:X:726:ILE:C	2.25	0.45
1:Y:247:TRP:CZ2	1:Y:318:ILE:CD1	3.00	0.45
1:Z:689:GLU:CD	1:Z:689:GLU:C	2.86	0.45
1:b:632:PRO:HD3	1:b:638:GLY:CA	2.47	0.45
1:b:688:LYS:NZ	1:b:688:LYS:HB3	2.31	0.45
1:d:688:LYS:NZ	1:d:688:LYS:HB3	2.31	0.45
1:e:247:TRP:CZ2	1:e:318:ILE:CD1	3.00	0.45
1:f:688:LYS:NZ	1:f:688:LYS:HB3	2.31	0.45
1:i:620:LYS:HB2	1:i:642:PRO:HG3	1.98	0.45
1:k:247:TRP:CZ2	1:k:318:ILE:CD1	3.00	0.45
1:k:576:TYR:OH	1:k:604:MET:HE2	2.16	0.45
1:l:289:CYS:SG	1:l:362:LEU:O	2.70	0.45
1:o:612:TYR:HD1	1:o:726:ILE:C	2.25	0.45
1:q:711:ASP:CG	1:q:724:ARG:HH12	2.24	0.45
1:r:612:TYR:HD1	1:r:726:ILE:C	2.25	0.45
1:s:247:TRP:CZ2	1:s:318:ILE:CD1	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:341:GLN:O	1:u:648:ILE:HA	2.17	0.45
1:u:400:SER:O	1:5:228:TRP:HB3	2.16	0.45
1:u:632:PRO:HD3	1:u:638:GLY:CA	2.47	0.45
1:v:612:TYR:HD1	1:v:726:ILE:C	2.25	0.45
1:v:711:ASP:CG	1:v:724:ARG:HH12	2.24	0.45
1:x:612:TYR:HD1	1:x:726:ILE:C	2.25	0.45
1:y:632:PRO:HD3	1:y:638:GLY:CA	2.47	0.45
1:1:354:LEU:HA	1:1:354:LEU:HD23	1.61	0.45
1:2:612:TYR:HD1	1:2:726:ILE:C	2.25	0.45
1:2:688:LYS:NZ	1:2:688:LYS:HB3	2.31	0.45
1:6:416:GLU:OE1	1:6:639:LEU:HB3	2.17	0.45
1:7:247:TRP:CZ2	1:7:318:ILE:CD1	3.00	0.45
1:8:689:GLU:CD	1:8:689:GLU:C	2.86	0.45
1:8:711:ASP:CG	1:8:724:ARG:HH12	2.24	0.45
1:A:612:TYR:HD1	1:A:726:ILE:C	2.25	0.44
1:A:688:LYS:NZ	1:A:688:LYS:HB3	2.31	0.44
1:A:711:ASP:CG	1:A:724:ARG:HH12	2.24	0.44
1:B:382:ASN:ND2	1:C:706:LYS:HD3	2.32	0.44
1:B:612:TYR:HD1	1:B:726:ILE:C	2.25	0.44
1:C:382:ASN:ND2	1:D:706:LYS:HD3	2.33	0.44
1:D:247:TRP:CZ2	1:D:318:ILE:CD1	3.00	0.44
1:D:576:TYR:OH	1:D:604:MET:HE2	2.16	0.44
1:E:576:TYR:OH	1:E:604:MET:HE2	2.16	0.44
1:F:612:TYR:HD1	1:F:726:ILE:C	2.25	0.44
1:F:632:PRO:HD3	1:F:638:GLY:CA	2.47	0.44
1:G:706:LYS:HD3	1:W:382:ASN:ND2	2.33	0.44
1:I:632:PRO:HD3	1:I:638:GLY:CA	2.47	0.44
1:J:688:LYS:NZ	1:J:688:LYS:HB3	2.31	0.44
1:K:632:PRO:HD3	1:K:638:GLY:CA	2.47	0.44
1:N:339:THR:HB	1:N:403:LEU:O	2.18	0.44
1:N:449:ASN:HA	1:N:459:ARG:H	1.82	0.44
1:Q:469:ASP:OD1	1:Q:469:ASP:N	2.39	0.44
1:R:711:ASP:CG	1:R:724:ARG:HH12	2.24	0.44
1:T:416:GLU:OE1	1:T:639:LEU:HB3	2.17	0.44
1:X:382:ASN:ND2	1:f:706:LYS:HD3	2.33	0.44
1:X:449:ASN:HA	1:X:459:ARG:H	1.82	0.44
1:X:706:LYS:HD3	1:Y:382:ASN:ND2	2.33	0.44
1:Y:228:TRP:HB3	1:4:400:SER:O	2.16	0.44
1:Z:632:PRO:HD3	1:Z:638:GLY:CA	2.47	0.44
1:b:706:LYS:HD3	1:o:382:ASN:ND2	2.33	0.44
1:c:247:TRP:CZ2	1:c:318:ILE:CD1	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:339:THR:HB	1:d:403:LEU:O	2.18	0.44
1:g:382:ASN:ND2	1:k:706:LYS:HD3	2.33	0.44
1:k:400:SER:O	1:w:228:TRP:HB3	2.16	0.44
1:n:339:THR:HB	1:n:403:LEU:O	2.18	0.44
1:o:706:LYS:HD3	1:7:382:ASN:ND2	2.33	0.44
1:p:706:LYS:HD3	1:q:382:ASN:ND2	2.32	0.44
1:r:632:PRO:HD3	1:r:638:GLY:CA	2.47	0.44
1:s:314:LYS:CG	1:s:410:THR:HG22	2.46	0.44
1:t:341:GLN:O	1:t:648:ILE:HA	2.17	0.44
1:t:508:TYR:CD1	1:t:517:VAL:HG22	2.50	0.44
1:v:711:ASP:OD2	1:v:724:ARG:NH1	2.46	0.44
1:y:247:TRP:CZ2	1:y:318:ILE:CD1	3.00	0.44
1:y:612:TYR:HD1	1:y:726:ILE:C	2.25	0.44
1:y:688:LYS:NZ	1:y:688:LYS:HB3	2.31	0.44
1:y:711:ASP:CG	1:y:724:ARG:HH12	2.24	0.44
1:z:314:LYS:HG2	1:z:410:THR:CG2	2.46	0.44
1:z:580:SER:CA	1:z:592:THR:HG22	2.46	0.44
1:z:711:ASP:CG	1:z:724:ARG:HH12	2.24	0.44
1:1:612:TYR:HD1	1:1:726:ILE:C	2.25	0.44
1:2:580:SER:CA	1:2:592:THR:HG22	2.46	0.44
1:3:341:GLN:O	1:3:648:ILE:HA	2.17	0.44
1:6:251:THR:HG23	1:6:672:GLN:O	2.16	0.44
1:8:247:TRP:CZ2	1:8:318:ILE:CD1	3.00	0.44
1:B:449:ASN:HA	1:B:459:ARG:H	1.82	0.44
1:C:339:THR:HB	1:C:403:LEU:O	2.18	0.44
1:D:400:SER:O	1:E:228:TRP:HB3	2.16	0.44
1:E:609:ARG:HH21	1:E:609:ARG:CG	2.26	0.44
1:E:689:GLU:C	1:E:689:GLU:CD	2.86	0.44
1:F:247:TRP:CZ2	1:F:318:ILE:CD1	3.00	0.44
1:F:339:THR:HB	1:F:403:LEU:O	2.18	0.44
1:F:711:ASP:CG	1:F:724:ARG:HH12	2.24	0.44
1:G:428:GLN:HE22	1:I:351:PRO:HB3	1.83	0.44
1:H:228:TRP:HB3	1:I:400:SER:O	2.16	0.44
1:H:323:VAL:CG1	1:H:330:THR:CG2	2.96	0.44
1:I:706:LYS:HD3	1:J:382:ASN:ND2	2.32	0.44
1:J:580:SER:CA	1:J:592:THR:HG22	2.46	0.44
1:K:400:SER:O	1:7:228:TRP:HB3	2.16	0.44
1:L:323:VAL:CG1	1:L:330:THR:CG2	2.96	0.44
1:M:382:ASN:ND2	1:c:706:LYS:HD3	2.33	0.44
1:M:576:TYR:OH	1:M:604:MET:HE2	2.16	0.44
1:N:580:SER:CA	1:N:592:THR:HG22	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:632:PRO:HD3	1:N:638:GLY:CA	2.47	0.44
1:O:289:CYS:SG	1:O:362:LEU:O	2.70	0.44
1:O:416:GLU:OE1	1:O:639:LEU:HB3	2.17	0.44
1:Q:706:LYS:HD3	1:S:382:ASN:ND2	2.32	0.44
1:R:580:SER:CA	1:R:592:THR:HG22	2.46	0.44
1:S:632:PRO:HD3	1:S:638:GLY:CA	2.47	0.44
1:W:251:THR:HG23	1:W:672:GLN:O	2.16	0.44
1:X:580:SER:CA	1:X:592:THR:HG22	2.46	0.44
1:Y:449:ASN:HA	1:Y:459:ARG:H	1.82	0.44
1:Y:689:GLU:CD	1:Y:689:GLU:C	2.86	0.44
1:Y:711:ASP:CG	1:Y:724:ARG:HH12	2.24	0.44
1:Z:247:TRP:CZ2	1:Z:318:ILE:CD1	3.00	0.44
1:Z:711:ASP:CG	1:Z:724:ARG:HH12	2.24	0.44
1:b:449:ASN:HA	1:b:459:ARG:H	1.82	0.44
1:c:449:ASN:HA	1:c:459:ARG:H	1.82	0.44
1:d:354:LEU:HA	1:d:354:LEU:HD23	1.61	0.44
1:d:689:GLU:CD	1:d:689:GLU:C	2.86	0.44
1:e:449:ASN:HA	1:e:459:ARG:H	1.82	0.44
1:g:314:LYS:HG2	1:g:410:THR:CG2	2.46	0.44
1:g:339:THR:HB	1:g:403:LEU:O	2.18	0.44
1:g:706:LYS:HD3	1:1:382:ASN:ND2	2.32	0.44
1:h:612:TYR:HD1	1:h:726:ILE:C	2.25	0.44
1:i:339:THR:HB	1:i:403:LEU:O	2.18	0.44
1:i:449:ASN:HA	1:i:459:ARG:H	1.82	0.44
1:k:323:VAL:CG1	1:k:330:THR:CG2	2.96	0.44
1:l:711:ASP:CG	1:l:724:ARG:HH12	2.24	0.44
1:m:416:GLU:OE1	1:m:639:LEU:HB3	2.17	0.44
1:n:689:GLU:C	1:n:689:GLU:CD	2.86	0.44
1:o:449:ASN:HA	1:o:459:ARG:H	1.82	0.44
1:q:247:TRP:CZ2	1:q:318:ILE:CD1	3.00	0.44
1:q:609:ARG:HH21	1:q:609:ARG:CG	2.26	0.44
1:r:382:ASN:ND2	1:x:706:LYS:HD3	2.32	0.44
1:s:416:GLU:OE1	1:s:639:LEU:HB3	2.17	0.44
1:t:428:GLN:HE22	1:u:351:PRO:HB3	1.83	0.44
1:t:706:LYS:HD3	1:6:382:ASN:ND2	2.33	0.44
1:u:706:LYS:HD3	1:2:382:ASN:ND2	2.32	0.44
1:v:449:ASN:HA	1:v:459:ARG:H	1.82	0.44
1:w:341:GLN:O	1:w:648:ILE:HA	2.17	0.44
1:w:449:ASN:HA	1:w:459:ARG:H	1.82	0.44
1:w:576:TYR:OH	1:w:604:MET:HE2	2.16	0.44
1:w:620:LYS:HB2	1:w:642:PRO:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:689:GLU:CD	1:y:689:GLU:C	2.86	0.44
1:z:323:VAL:CG1	1:z:330:THR:CG2	2.96	0.44
1:1:449:ASN:HA	1:1:459:ARG:H	1.82	0.44
1:2:689:GLU:CD	1:2:689:GLU:C	2.86	0.44
1:3:323:VAL:CG1	1:3:330:THR:CG2	2.96	0.44
1:4:632:PRO:HD3	1:4:638:GLY:CA	2.47	0.44
1:5:323:VAL:CG1	1:5:330:THR:CG2	2.96	0.44
1:6:354:LEU:HD23	1:6:354:LEU:HA	1.61	0.44
1:7:449:ASN:HA	1:7:459:ARG:H	1.82	0.44
1:7:689:GLU:C	1:7:689:GLU:CD	2.86	0.44
1:7:711:ASP:CG	1:7:724:ARG:HH12	2.24	0.44
1:8:632:PRO:HD3	1:8:638:GLY:CA	2.47	0.44
1:A:449:ASN:HA	1:A:459:ARG:H	1.82	0.44
1:C:580:SER:CA	1:C:592:THR:HG22	2.46	0.44
1:D:323:VAL:CG1	1:D:330:THR:CG2	2.96	0.44
1:E:341:GLN:O	1:E:648:ILE:HA	2.17	0.44
1:E:449:ASN:HA	1:E:459:ARG:H	1.82	0.44
1:E:632:PRO:HD3	1:E:638:GLY:CA	2.47	0.44
1:F:449:ASN:HA	1:F:459:ARG:H	1.82	0.44
1:F:580:SER:CA	1:F:592:THR:HG22	2.46	0.44
1:F:612:TYR:CD1	1:F:727:GLY:CA	3.01	0.44
1:F:689:GLU:CD	1:F:689:GLU:C	2.86	0.44
1:G:508:TYR:CD1	1:G:517:VAL:HG22	2.50	0.44
1:H:612:TYR:HD1	1:H:726:ILE:C	2.25	0.44
1:I:314:LYS:HG2	1:I:410:THR:CG2	2.46	0.44
1:I:323:VAL:CG1	1:I:330:THR:CG2	2.96	0.44
1:I:323:VAL:HG12	1:I:330:THR:HG23	2.00	0.44
1:I:689:GLU:CD	1:I:689:GLU:C	2.85	0.44
1:J:689:GLU:CD	1:J:689:GLU:C	2.86	0.44
1:K:596:ASN:ND2	1:8:581:THR:HG22	2.33	0.44
1:M:612:TYR:HD1	1:M:726:ILE:C	2.25	0.44
1:R:247:TRP:CZ2	1:R:318:ILE:CD1	3.00	0.44
1:R:323:VAL:HG12	1:R:330:THR:HG23	2.00	0.44
1:R:354:LEU:HA	1:R:354:LEU:HD23	1.61	0.44
1:S:576:TYR:OH	1:S:604:MET:HE2	2.17	0.44
1:T:323:VAL:CG1	1:T:330:THR:CG2	2.96	0.44
1:T:688:LYS:NZ	1:T:688:LYS:HB3	2.31	0.44
1:U:416:GLU:OE1	1:U:639:LEU:HB3	2.17	0.44
1:W:449:ASN:HA	1:W:459:ARG:H	1.82	0.44
1:W:689:GLU:C	1:W:689:GLU:CD	2.86	0.44
1:X:612:TYR:CD1	1:X:727:GLY:CA	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:323:VAL:CG1	1:Z:330:THR:CG2	2.96	0.44
1:a:323:VAL:CG1	1:a:330:THR:CG2	2.96	0.44
1:a:341:GLN:O	1:a:648:ILE:HA	2.17	0.44
1:c:612:TYR:CD1	1:c:727:GLY:CA	3.01	0.44
1:c:689:GLU:C	1:c:689:GLU:CD	2.86	0.44
1:e:339:THR:HB	1:e:403:LEU:O	2.18	0.44
1:e:612:TYR:CD1	1:e:727:GLY:CA	3.01	0.44
1:e:689:GLU:C	1:e:689:GLU:CD	2.86	0.44
1:e:706:LYS:HD3	1:h:382:ASN:ND2	2.33	0.44
1:f:449:ASN:HA	1:f:459:ARG:H	1.82	0.44
1:f:711:ASP:CG	1:f:724:ARG:HH12	2.24	0.44
1:i:580:SER:CA	1:i:592:THR:HG22	2.46	0.44
1:l:416:GLU:OE1	1:l:639:LEU:HB3	2.17	0.44
1:n:382:ASN:ND2	1:r:706:LYS:HD3	2.32	0.44
1:n:612:TYR:HD1	1:n:726:ILE:C	2.25	0.44
1:o:580:SER:CA	1:o:592:THR:HG22	2.46	0.44
1:o:612:TYR:CD1	1:o:727:GLY:CA	3.01	0.44
1:q:323:VAL:HG12	1:q:330:THR:HG23	2.00	0.44
1:q:580:SER:CA	1:q:592:THR:HG22	2.46	0.44
1:r:247:TRP:CZ2	1:r:318:ILE:CD1	3.00	0.44
1:r:576:TYR:OH	1:r:604:MET:HE2	2.17	0.44
1:r:689:GLU:CD	1:r:689:GLU:C	2.86	0.44
1:u:314:LYS:HG2	1:u:410:THR:CG2	2.46	0.44
1:u:323:VAL:CG1	1:u:330:THR:CG2	2.96	0.44
1:u:323:VAL:HG12	1:u:330:THR:HG23	2.00	0.44
1:v:235:MET:HE2	1:v:235:MET:HB3	1.74	0.44
1:v:688:LYS:NZ	1:v:688:LYS:HB3	2.31	0.44
1:w:689:GLU:CD	1:w:689:GLU:C	2.86	0.44
1:y:339:THR:HB	1:y:403:LEU:O	2.18	0.44
1:y:612:TYR:CD1	1:y:727:GLY:CA	3.01	0.44
1:3:632:PRO:HD3	1:3:638:GLY:CA	2.47	0.44
1:5:382:ASN:ND2	1:8:706:LYS:HD3	2.33	0.44
1:5:581:THR:HG22	1:6:596:ASN:ND2	2.33	0.44
1:6:339:THR:HB	1:6:403:LEU:O	2.18	0.44
1:6:449:ASN:HA	1:6:459:ARG:H	1.82	0.44
1:6:689:GLU:CD	1:6:689:GLU:C	2.86	0.44
1:B:428:GLN:HE22	1:J:351:PRO:HB3	1.83	0.44
1:C:247:TRP:CZ2	1:C:318:ILE:CD1	3.00	0.44
1:C:314:LYS:HG2	1:C:410:THR:CG2	2.46	0.44
1:C:581:THR:HG22	1:b:596:ASN:ND2	2.33	0.44
1:E:612:TYR:CD1	1:E:727:GLY:CA	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:632:PRO:HD3	1:G:638:GLY:CA	2.47	0.44
1:H:382:ASN:ND2	1:Z:706:LYS:HD3	2.33	0.44
1:H:581:THR:HG22	1:W:596:ASN:ND2	2.33	0.44
1:H:612:TYR:CD1	1:H:727:GLY:CA	3.01	0.44
1:I:711:ASP:CG	1:I:724:ARG:HH12	2.24	0.44
1:J:235:MET:HE2	1:J:235:MET:HB3	1.74	0.44
1:J:632:PRO:HD3	1:J:638:GLY:CA	2.47	0.44
1:K:612:TYR:CD1	1:K:727:GLY:CA	3.01	0.44
1:M:323:VAL:HG12	1:M:330:THR:HG23	2.00	0.44
1:M:339:THR:HB	1:M:403:LEU:O	2.18	0.44
1:N:314:LYS:HG2	1:N:410:THR:CG2	2.46	0.44
1:P:632:PRO:HD3	1:P:638:GLY:CA	2.47	0.44
1:Q:247:TRP:CZ2	1:Q:318:ILE:CD1	3.00	0.44
1:Q:612:TYR:CD1	1:Q:727:GLY:CA	3.01	0.44
1:R:449:ASN:HA	1:R:459:ARG:H	1.82	0.44
1:R:581:THR:HG22	1:S:596:ASN:ND2	2.33	0.44
1:R:609:ARG:HH21	1:R:609:ARG:CG	2.26	0.44
1:S:247:TRP:CZ2	1:S:318:ILE:CD1	3.00	0.44
1:S:689:GLU:CD	1:S:689:GLU:C	2.86	0.44
1:S:706:LYS:HD3	1:d:382:ASN:ND2	2.32	0.44
1:T:711:ASP:CG	1:T:724:ARG:HH12	2.24	0.44
1:V:339:THR:HB	1:V:403:LEU:O	2.18	0.44
1:V:382:ASN:ND2	1:W:706:LYS:HD3	2.33	0.44
1:V:581:THR:HG22	1:e:596:ASN:ND2	2.33	0.44
1:W:339:THR:HB	1:W:403:LEU:O	2.18	0.44
1:Y:576:TYR:OH	1:Y:604:MET:HE2	2.16	0.44
1:Z:581:THR:HG22	1:4:596:ASN:ND2	2.33	0.44
1:Z:612:TYR:HD1	1:Z:726:ILE:C	2.25	0.44
1:a:428:GLN:HE22	1:8:351:PRO:HB3	1.83	0.44
1:a:632:PRO:HD3	1:a:638:GLY:CA	2.47	0.44
1:c:339:THR:HB	1:c:403:LEU:O	2.18	0.44
1:d:612:TYR:HD1	1:d:726:ILE:C	2.25	0.44
1:f:596:ASN:ND2	1:g:581:THR:HG22	2.33	0.44
1:f:612:TYR:HD1	1:f:726:ILE:C	2.25	0.44
1:g:580:SER:CA	1:g:592:THR:HG22	2.46	0.44
1:h:247:TRP:CZ2	1:h:318:ILE:CD1	3.00	0.44
1:h:323:VAL:HG12	1:h:330:THR:HG23	2.00	0.44
1:h:339:THR:HB	1:h:403:LEU:O	2.18	0.44
1:h:576:TYR:OH	1:h:604:MET:HE2	2.16	0.44
1:i:612:TYR:CD1	1:i:727:GLY:CA	3.01	0.44
1:i:632:PRO:HD3	1:i:638:GLY:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:620:LYS:HB2	1:j:642:PRO:HG3	1.98	0.44
1:m:323:VAL:CG1	1:m:330:THR:CG2	2.96	0.44
1:m:688:LYS:NZ	1:m:688:LYS:HB3	2.31	0.44
1:p:339:THR:HB	1:p:403:LEU:O	2.18	0.44
1:p:612:TYR:CD1	1:p:727:GLY:CA	3.01	0.44
1:q:581:THR:HG22	1:r:596:ASN:ND2	2.33	0.44
1:t:416:GLU:OE1	1:t:639:LEU:HB3	2.17	0.44
1:u:689:GLU:C	1:u:689:GLU:CD	2.85	0.44
1:u:711:ASP:CG	1:u:724:ARG:HH12	2.24	0.44
1:w:612:TYR:CD1	1:w:727:GLY:CA	3.01	0.44
1:w:632:PRO:HD3	1:w:638:GLY:CA	2.47	0.44
1:x:612:TYR:CD1	1:x:727:GLY:CA	3.01	0.44
1:y:449:ASN:HA	1:y:459:ARG:H	1.82	0.44
1:y:580:SER:CA	1:y:592:THR:HG22	2.46	0.44
1:1:428:GLN:HE22	1:2:351:PRO:HB3	1.83	0.44
1:2:632:PRO:HD3	1:2:638:GLY:CA	2.47	0.44
1:3:449:ASN:HA	1:3:459:ARG:H	1.82	0.44
1:4:341:GLN:O	1:4:648:ILE:HA	2.17	0.44
1:4:612:TYR:CD1	1:4:727:GLY:CA	3.01	0.44
1:5:339:THR:HB	1:5:403:LEU:O	2.18	0.44
1:5:612:TYR:CD1	1:5:727:GLY:CA	3.01	0.44
1:5:612:TYR:HD1	1:5:726:ILE:C	2.25	0.44
1:7:576:TYR:OH	1:7:604:MET:HE2	2.16	0.44
1:8:323:VAL:CG1	1:8:330:THR:CG2	2.96	0.44
1:8:612:TYR:HD1	1:8:726:ILE:C	2.25	0.44
1:B:339:THR:HB	1:B:403:LEU:O	2.18	0.44
1:B:581:THR:HG22	1:J:596:ASN:ND2	2.33	0.44
1:B:620:LYS:HB2	1:B:642:PRO:HG3	1.98	0.44
1:C:689:GLU:CD	1:C:689:GLU:C	2.85	0.44
1:D:323:VAL:HG12	1:D:330:THR:HG23	2.00	0.44
1:D:341:GLN:O	1:D:648:ILE:HA	2.17	0.44
1:E:581:THR:HG22	1:Q:596:ASN:ND2	2.33	0.44
1:E:596:ASN:ND2	1:F:581:THR:HG22	2.33	0.44
1:E:711:ASP:CG	1:E:724:ARG:HH12	2.24	0.44
1:G:416:GLU:OE1	1:G:639:LEU:HB3	2.17	0.44
1:G:612:TYR:CD1	1:G:727:GLY:CA	3.01	0.44
1:G:612:TYR:HD1	1:G:726:ILE:C	2.25	0.44
1:H:339:THR:HB	1:H:403:LEU:O	2.18	0.44
1:H:428:GLN:HE22	1:W:351:PRO:HB3	1.83	0.44
1:H:689:GLU:CD	1:H:689:GLU:C	2.86	0.44
1:J:323:VAL:HG12	1:J:330:THR:HG23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:508:TYR:CD1	1:K:517:VAL:HG22	2.50	0.44
1:K:612:TYR:HD1	1:K:726:ILE:C	2.25	0.44
1:M:247:TRP:CZ2	1:M:318:ILE:CD1	3.00	0.44
1:N:247:TRP:CZ2	1:N:318:ILE:CD1	3.00	0.44
1:N:612:TYR:CD1	1:N:727:GLY:CA	3.01	0.44
1:N:689:GLU:CD	1:N:689:GLU:C	2.86	0.44
1:O:339:THR:HB	1:O:403:LEU:O	2.18	0.44
1:O:449:ASN:HA	1:O:459:ARG:H	1.82	0.44
1:R:323:VAL:CG1	1:R:330:THR:CG2	2.96	0.44
1:S:612:TYR:CD1	1:S:727:GLY:CA	3.01	0.44
1:T:247:TRP:CZ2	1:T:318:ILE:CD1	3.00	0.44
1:U:612:TYR:HD1	1:U:726:ILE:C	2.25	0.44
1:V:612:TYR:CD1	1:V:727:GLY:CA	3.01	0.44
1:Z:351:PRO:HB3	1:3:428:GLN:HE22	1.83	0.44
1:a:323:VAL:HG12	1:a:330:THR:HG23	2.00	0.44
1:b:323:VAL:CG1	1:b:330:THR:CG2	2.96	0.44
1:b:612:TYR:HD1	1:b:726:ILE:C	2.25	0.44
1:b:711:ASP:CG	1:b:724:ARG:HH12	2.24	0.44
1:c:596:ASN:ND2	1:p:581:THR:HG22	2.33	0.44
1:d:580:SER:CA	1:d:592:THR:HG22	2.46	0.44
1:f:323:VAL:CG1	1:f:330:THR:CG2	2.96	0.44
1:g:247:TRP:CZ2	1:g:318:ILE:CD1	3.00	0.44
1:g:469:ASP:OD1	1:g:469:ASP:N	2.39	0.44
1:g:689:GLU:C	1:g:689:GLU:CD	2.85	0.44
1:i:689:GLU:CD	1:i:689:GLU:C	2.86	0.44
1:j:632:PRO:HD3	1:j:638:GLY:CA	2.47	0.44
1:k:452:SER:OG	1:k:455:THR:O	2.31	0.44
1:l:339:THR:HB	1:l:403:LEU:O	2.18	0.44
1:m:247:TRP:CZ2	1:m:318:ILE:CD1	3.00	0.44
1:m:711:ASP:CG	1:m:724:ARG:HH12	2.24	0.44
1:p:382:ASN:ND2	1:6:706:LYS:HD3	2.33	0.44
1:q:323:VAL:CG1	1:q:330:THR:CG2	2.96	0.44
1:r:612:TYR:CD1	1:r:727:GLY:CA	3.01	0.44
1:s:323:VAL:HG12	1:s:330:THR:HG23	2.00	0.44
1:s:354:LEU:HA	1:s:354:LEU:HD23	1.61	0.44
1:s:612:TYR:HD1	1:s:726:ILE:C	2.25	0.44
1:t:632:PRO:HD3	1:t:638:GLY:CA	2.47	0.44
1:w:323:VAL:CG1	1:w:330:THR:CG2	2.96	0.44
1:w:339:THR:HB	1:w:403:LEU:O	2.18	0.44
1:w:581:THR:HG22	1:x:596:ASN:ND2	2.33	0.44
1:w:711:ASP:CG	1:w:724:ARG:HH12	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:247:TRP:CZ2	1:x:318:ILE:CD1	3.00	0.44
1:x:449:ASN:HA	1:x:459:ARG:H	1.82	0.44
1:x:632:PRO:HD3	1:x:638:GLY:CA	2.47	0.44
1:1:620:LYS:HB2	1:1:642:PRO:HG3	1.98	0.44
1:2:323:VAL:HG12	1:2:330:THR:HG23	2.00	0.44
1:3:323:VAL:HG12	1:3:330:THR:HG23	2.00	0.44
1:3:612:TYR:CD1	1:3:727:GLY:CA	3.01	0.44
1:4:612:TYR:HD1	1:4:726:ILE:C	2.25	0.44
1:5:314:LYS:HG2	1:5:410:THR:CG2	2.46	0.44
1:5:428:GLN:HE22	1:6:351:PRO:HB3	1.83	0.44
1:5:689:GLU:C	1:5:689:GLU:CD	2.86	0.44
1:A:706:LYS:HD3	1:E:382:ASN:ND2	2.33	0.44
1:C:323:VAL:CG1	1:C:330:THR:CG2	2.96	0.44
1:C:469:ASP:OD1	1:C:469:ASP:N	2.39	0.44
1:E:323:VAL:CG1	1:E:330:THR:CG2	2.96	0.44
1:E:339:THR:HB	1:E:403:LEU:O	2.18	0.44
1:F:382:ASN:ND2	1:R:706:LYS:HD3	2.32	0.44
1:G:689:GLU:CD	1:G:689:GLU:C	2.86	0.44
1:I:247:TRP:CZ2	1:I:318:ILE:CD1	3.00	0.44
1:J:339:THR:HB	1:J:403:LEU:O	2.18	0.44
1:J:413:TYR:HE2	1:J:415:PHE:CG	2.36	0.44
1:K:341:GLN:O	1:K:648:ILE:HA	2.17	0.44
1:L:612:TYR:CD1	1:L:727:GLY:CA	3.01	0.44
1:L:612:TYR:HD1	1:L:726:ILE:C	2.25	0.44
1:M:323:VAL:CG1	1:M:330:THR:CG2	2.96	0.44
1:M:632:PRO:HD3	1:M:638:GLY:CA	2.47	0.44
1:O:382:ASN:ND2	1:d:706:LYS:HD3	2.33	0.44
1:P:612:TYR:CD1	1:P:727:GLY:CA	3.01	0.44
1:P:620:LYS:HB2	1:P:642:PRO:HG3	1.98	0.44
1:P:689:GLU:C	1:P:689:GLU:CD	2.86	0.44
1:P:706:LYS:HD3	1:Q:382:ASN:ND2	2.33	0.44
1:Q:339:THR:HB	1:Q:403:LEU:O	2.18	0.44
1:Q:416:GLU:OE1	1:Q:639:LEU:HB3	2.17	0.44
1:Q:449:ASN:HA	1:Q:459:ARG:H	1.82	0.44
1:R:612:TYR:CD1	1:R:727:GLY:CA	3.01	0.44
1:T:339:THR:HB	1:T:403:LEU:O	2.18	0.44
1:T:689:GLU:CD	1:T:689:GLU:C	2.85	0.44
1:U:323:VAL:HG12	1:U:330:THR:HG23	2.00	0.44
1:V:596:ASN:ND2	1:X:581:THR:HG22	2.33	0.44
1:X:323:VAL:HG12	1:X:330:THR:HG23	2.00	0.44
1:X:689:GLU:C	1:X:689:GLU:CD	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:449:ASN:HA	1:a:459:ARG:H	1.82	0.44
1:a:612:TYR:CD1	1:a:727:GLY:CA	3.01	0.44
1:a:688:LYS:NZ	1:a:688:LYS:HB3	2.31	0.44
1:c:620:LYS:HB2	1:c:642:PRO:HG3	1.98	0.44
1:d:323:VAL:HG12	1:d:330:THR:HG23	2.00	0.44
1:d:416:GLU:OE1	1:d:639:LEU:HB3	2.17	0.44
1:e:620:LYS:HB2	1:e:642:PRO:HG3	1.98	0.44
1:e:632:PRO:HD3	1:e:638:GLY:CA	2.47	0.44
1:g:323:VAL:CG1	1:g:330:THR:CG2	2.96	0.44
1:h:323:VAL:CG1	1:h:330:THR:CG2	2.96	0.44
1:h:632:PRO:HD3	1:h:638:GLY:CA	2.47	0.44
1:i:247:TRP:CZ2	1:i:318:ILE:CD1	3.00	0.44
1:i:314:LYS:HG2	1:i:410:THR:CG2	2.46	0.44
1:i:341:GLN:O	1:i:648:ILE:HA	2.17	0.44
1:j:612:TYR:CD1	1:j:727:GLY:CA	3.01	0.44
1:j:689:GLU:CD	1:j:689:GLU:C	2.86	0.44
1:k:323:VAL:HG12	1:k:330:THR:HG23	2.00	0.44
1:k:339:THR:HB	1:k:403:LEU:O	2.18	0.44
1:k:341:GLN:O	1:k:648:ILE:HA	2.17	0.44
1:l:314:LYS:HG2	1:l:410:THR:CG2	2.46	0.44
1:l:449:ASN:HA	1:l:459:ARG:H	1.82	0.44
1:m:339:THR:HB	1:m:403:LEU:O	2.18	0.44
1:n:416:GLU:OE1	1:n:639:LEU:HB3	2.17	0.44
1:o:689:GLU:C	1:o:689:GLU:CD	2.86	0.44
1:p:576:TYR:OH	1:p:604:MET:HE2	2.17	0.44
1:q:449:ASN:HA	1:q:459:ARG:H	1.82	0.44
1:q:612:TYR:CD1	1:q:727:GLY:CA	3.01	0.44
1:q:706:LYS:HD3	1:y:382:ASN:ND2	2.32	0.44
1:s:339:THR:HB	1:s:403:LEU:O	2.18	0.44
1:s:341:GLN:O	1:s:648:ILE:HA	2.17	0.44
1:t:612:TYR:CD1	1:t:727:GLY:CA	3.01	0.44
1:w:596:ASN:ND2	1:y:581:THR:HG22	2.33	0.44
1:x:339:THR:HB	1:x:403:LEU:O	2.18	0.44
1:x:416:GLU:OE1	1:x:639:LEU:HB3	2.17	0.44
1:y:341:GLN:O	1:y:648:ILE:HA	2.17	0.44
1:z:612:TYR:CD1	1:z:727:GLY:CA	3.01	0.44
1:z:612:TYR:HD1	1:z:726:ILE:C	2.25	0.44
1:1:339:THR:HB	1:1:403:LEU:O	2.18	0.44
1:1:581:THR:HG22	1:2:596:ASN:ND2	2.33	0.44
1:2:413:TYR:HE2	1:2:415:PHE:CG	2.36	0.44
1:3:688:LYS:NZ	1:3:688:LYS:HB3	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:242:THR:CG2	1:6:681:GLU:CG	2.81	0.44
1:C:596:ASN:ND2	1:M:581:THR:HG22	2.33	0.44
1:D:339:THR:HB	1:D:403:LEU:O	2.18	0.44
1:E:323:VAL:HG12	1:E:330:THR:HG23	2.00	0.44
1:E:612:TYR:HD1	1:E:726:ILE:C	2.25	0.44
1:F:341:GLN:O	1:F:648:ILE:HA	2.17	0.44
1:F:706:LYS:HD3	1:G:382:ASN:ND2	2.33	0.44
1:H:314:LYS:HG2	1:H:410:THR:CG2	2.46	0.44
1:H:620:LYS:HB2	1:H:642:PRO:HG3	1.98	0.44
1:K:247:TRP:CZ2	1:K:318:ILE:CD1	3.00	0.44
1:K:323:VAL:CG1	1:K:330:THR:CG2	2.96	0.44
1:N:341:GLN:O	1:N:648:ILE:HA	2.17	0.44
1:O:314:LYS:HG2	1:O:410:THR:CG2	2.46	0.44
1:O:596:ASN:ND2	1:n:581:THR:HG22	2.33	0.44
1:P:247:TRP:CZ2	1:P:318:ILE:CD1	3.00	0.44
1:Q:632:PRO:HD3	1:Q:638:GLY:CA	2.47	0.44
1:R:339:THR:HB	1:R:403:LEU:O	2.18	0.44
1:S:323:VAL:HG12	1:S:330:THR:HG23	2.00	0.44
1:S:711:ASP:CG	1:S:724:ARG:HH12	2.24	0.44
1:U:339:THR:HB	1:U:403:LEU:O	2.18	0.44
1:V:576:TYR:OH	1:V:604:MET:HE2	2.17	0.44
1:W:298:ARG:NH2	1:X:689:GLU:OE2	2.44	0.44
1:X:620:LYS:HB2	1:X:642:PRO:HG3	1.98	0.44
1:Z:341:GLN:O	1:Z:648:ILE:HA	2.17	0.44
1:c:632:PRO:HD3	1:c:638:GLY:CA	2.47	0.44
1:d:581:THR:HG22	1:l:596:ASN:ND2	2.33	0.44
1:f:382:ASN:ND2	1:z:706:LYS:HD3	2.32	0.44
1:g:449:ASN:HA	1:g:459:ARG:H	1.82	0.44
1:g:596:ASN:ND2	1:h:581:THR:HG22	2.33	0.44
1:j:247:TRP:CZ2	1:j:318:ILE:CD1	3.00	0.44
1:j:314:LYS:HG2	1:j:410:THR:CG2	2.46	0.44
1:j:706:LYS:HD3	1:x:382:ASN:ND2	2.33	0.44
1:k:382:ASN:ND2	1:w:706:LYS:HD3	2.33	0.44
1:l:382:ASN:ND2	1:n:706:LYS:HD3	2.33	0.44
1:m:612:TYR:CD1	1:m:727:GLY:CA	3.01	0.44
1:m:612:TYR:HD1	1:m:726:ILE:C	2.25	0.44
1:n:323:VAL:HG12	1:n:330:THR:HG23	2.00	0.44
1:n:580:SER:CA	1:n:592:THR:HG22	2.46	0.44
1:o:323:VAL:HG12	1:o:330:THR:HG23	2.00	0.44
1:o:581:THR:HG22	1:p:596:ASN:ND2	2.33	0.44
1:o:689:GLU:OE2	1:6:298:ARG:NH2	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:339:THR:HB	1:q:403:LEU:O	2.18	0.44
1:r:323:VAL:HG12	1:r:330:THR:HG23	2.00	0.44
1:r:711:ASP:CG	1:r:724:ARG:HH12	2.24	0.44
1:t:612:TYR:HD1	1:t:726:ILE:C	2.25	0.44
1:t:689:GLU:CD	1:t:689:GLU:C	2.86	0.44
1:u:247:TRP:CZ2	1:u:318:ILE:CD1	3.00	0.44
1:v:508:TYR:CD1	1:v:517:VAL:HG22	2.50	0.44
1:v:706:LYS:HD3	1:w:382:ASN:ND2	2.33	0.44
1:w:323:VAL:HG12	1:w:330:THR:HG23	2.00	0.44
1:w:612:TYR:HD1	1:w:726:ILE:C	2.25	0.44
1:x:242:THR:CG2	1:x:681:GLU:CG	2.81	0.44
1:x:688:LYS:NZ	1:x:688:LYS:HB3	2.31	0.44
1:2:339:THR:HB	1:2:403:LEU:O	2.18	0.44
1:2:452:SER:OG	1:2:455:THR:O	2.31	0.44
1:4:247:TRP:CZ2	1:4:318:ILE:CD1	3.00	0.44
1:4:323:VAL:CG1	1:4:330:THR:CG2	2.96	0.44
1:4:508:TYR:CD1	1:4:517:VAL:HG22	2.50	0.44
1:5:620:LYS:HB2	1:5:642:PRO:HG3	1.98	0.44
1:8:580:SER:CA	1:8:592:THR:HG22	2.46	0.44
1:A:389:ARG:HG2	1:I:698:ILE:HD12	2.00	0.44
1:A:698:ILE:HD12	1:G:389:ARG:HG2	2.00	0.44
1:C:254:ASN:O	1:C:255:HIS:HB2	2.18	0.44
1:C:413:TYR:HE2	1:C:415:PHE:CG	2.36	0.44
1:C:449:ASN:HA	1:C:459:ARG:H	1.82	0.44
1:D:382:ASN:ND2	1:E:706:LYS:HD3	2.33	0.44
1:D:389:ARG:HG2	1:P:698:ILE:HD12	2.00	0.44
1:D:452:SER:OG	1:D:455:THR:O	2.31	0.44
1:D:581:THR:HG22	1:N:596:ASN:ND2	2.33	0.44
1:E:314:LYS:CG	1:E:410:THR:HG22	2.46	0.44
1:G:581:THR:HG22	1:I:596:ASN:ND2	2.33	0.44
1:L:254:ASN:O	1:L:255:HIS:HB2	2.18	0.44
1:L:706:LYS:HD3	1:b:382:ASN:ND2	2.32	0.44
1:M:688:LYS:NZ	1:M:688:LYS:HB3	2.31	0.44
1:N:254:ASN:O	1:N:255:HIS:HB2	2.18	0.44
1:N:323:VAL:CG1	1:N:330:THR:CG2	2.96	0.44
1:P:254:ASN:O	1:P:255:HIS:HB2	2.18	0.44
1:P:314:LYS:HG2	1:P:410:THR:CG2	2.46	0.44
1:P:323:VAL:HG12	1:P:330:THR:HG23	2.00	0.44
1:Q:242:THR:CG2	1:Q:681:GLU:CG	2.81	0.44
1:Q:413:TYR:HE2	1:Q:415:PHE:CG	2.36	0.44
1:Q:688:LYS:NZ	1:Q:688:LYS:HB3	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:351:PRO:HB3	1:U:428:GLN:HE22	1.83	0.44
1:R:689:GLU:C	1:R:689:GLU:CD	2.86	0.44
1:T:325:GLN:HG2	1:T:325:GLN:O	2.18	0.44
1:T:581:THR:HG22	1:d:596:ASN:ND2	2.33	0.44
1:T:612:TYR:CD1	1:T:727:GLY:CA	3.01	0.44
1:U:254:ASN:O	1:U:255:HIS:HB2	2.18	0.44
1:U:341:GLN:O	1:U:648:ILE:HA	2.17	0.44
1:U:508:TYR:CD1	1:U:517:VAL:HG22	2.50	0.44
1:U:689:GLU:C	1:U:689:GLU:CD	2.86	0.44
1:W:365:PHE:CD1	1:W:366:PRO:CD	2.95	0.44
1:W:612:TYR:HD1	1:W:726:ILE:C	2.25	0.44
1:X:323:VAL:CG1	1:X:330:THR:CG2	2.96	0.44
1:X:526:HIS:HD2	1:X:527:LYS:O	2.01	0.44
1:X:596:ASN:ND2	1:e:581:THR:HG22	2.33	0.44
1:Y:323:VAL:CG1	1:Y:330:THR:CG2	2.96	0.44
1:Z:612:TYR:CD1	1:Z:727:GLY:CA	3.01	0.44
1:a:581:THR:HG22	1:8:596:ASN:ND2	2.33	0.44
1:c:581:THR:HG22	1:o:596:ASN:ND2	2.33	0.44
1:d:449:ASN:HA	1:d:459:ARG:H	1.82	0.44
1:e:341:GLN:O	1:e:648:ILE:HA	2.17	0.44
1:g:254:ASN:O	1:g:255:HIS:HB2	2.18	0.44
1:g:413:TYR:HE2	1:g:415:PHE:CG	2.36	0.44
1:i:254:ASN:O	1:i:255:HIS:HB2	2.18	0.44
1:j:581:THR:HG22	1:k:596:ASN:ND2	2.33	0.44
1:j:698:ILE:HD12	1:k:389:ARG:HG2	2.00	0.44
1:k:254:ASN:O	1:k:255:HIS:HB2	2.18	0.44
1:m:325:GLN:O	1:m:325:GLN:HG2	2.18	0.44
1:m:581:THR:HG22	1:n:596:ASN:ND2	2.33	0.44
1:m:689:GLU:CD	1:m:689:GLU:C	2.85	0.44
1:o:323:VAL:CG1	1:o:330:THR:CG2	2.96	0.44
1:o:526:HIS:HD2	1:o:527:LYS:O	2.01	0.44
1:o:620:LYS:HB2	1:o:642:PRO:HG3	1.98	0.44
1:q:689:GLU:CD	1:q:689:GLU:C	2.86	0.44
1:r:581:THR:HG22	1:s:596:ASN:ND2	2.33	0.44
1:s:254:ASN:O	1:s:255:HIS:HB2	2.18	0.44
1:s:508:TYR:CD1	1:s:517:VAL:HG22	2.50	0.44
1:s:612:TYR:CD1	1:s:727:GLY:CA	3.01	0.44
1:t:382:ASN:ND2	1:y:706:LYS:HD3	2.33	0.44
1:t:389:ARG:HG2	1:v:698:ILE:HD12	2.00	0.44
1:t:526:HIS:HD2	1:t:527:LYS:O	2.01	0.44
1:u:698:ILE:HD12	1:v:389:ARG:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:413:TYR:HE2	1:x:415:PHE:CG	2.36	0.44
1:z:254:ASN:O	1:z:255:HIS:HB2	2.18	0.44
1:1:413:TYR:HE2	1:1:415:PHE:CG	2.36	0.44
1:3:706:LYS:HD3	1:8:382:ASN:ND2	2.33	0.44
1:6:452:SER:OG	1:6:455:THR:O	2.31	0.44
1:6:612:TYR:HD1	1:6:726:ILE:C	2.25	0.44
1:6:688:LYS:NZ	1:6:688:LYS:HB3	2.31	0.44
1:7:323:VAL:CG1	1:7:330:THR:CG2	2.96	0.44
1:8:341:GLN:O	1:8:648:ILE:HA	2.17	0.44
1:8:449:ASN:HA	1:8:459:ARG:H	1.82	0.44
1:8:612:TYR:CD1	1:8:727:GLY:CA	3.01	0.44
1:A:689:GLU:CD	1:A:689:GLU:C	2.86	0.44
1:B:413:TYR:HE2	1:B:415:PHE:CG	2.36	0.44
1:B:688:LYS:NZ	1:B:688:LYS:HB3	2.31	0.44
1:B:698:ILE:HD12	1:J:389:ARG:HG2	2.00	0.44
1:C:612:TYR:HD1	1:C:726:ILE:C	2.25	0.44
1:D:254:ASN:O	1:D:255:HIS:HB2	2.18	0.44
1:D:596:ASN:ND2	1:P:581:THR:HG22	2.33	0.44
1:D:612:TYR:CD1	1:D:727:GLY:CA	3.01	0.44
1:D:612:TYR:HD1	1:D:726:ILE:C	2.25	0.44
1:E:254:ASN:O	1:E:255:HIS:HB2	2.18	0.44
1:E:273:PHE:CD2	1:E:386:ALA:HB2	2.53	0.44
1:G:413:TYR:HE2	1:G:415:PHE:CG	2.36	0.44
1:G:526:HIS:HD2	1:G:527:LYS:O	2.01	0.44
1:G:698:ILE:HD12	1:I:389:ARG:HG2	2.00	0.44
1:H:706:LYS:HD3	1:I:382:ASN:ND2	2.33	0.44
1:L:273:PHE:CD2	1:L:386:ALA:HB2	2.53	0.44
1:M:325:GLN:O	1:M:325:GLN:HG2	2.18	0.44
1:M:596:ASN:ND2	1:b:581:THR:HG22	2.33	0.44
1:N:235:MET:HE2	1:N:235:MET:HB3	1.74	0.44
1:O:254:ASN:O	1:O:255:HIS:HB2	2.18	0.44
1:O:314:LYS:CG	1:O:410:THR:HG22	2.46	0.44
1:Q:323:VAL:HG12	1:Q:330:THR:HG23	2.00	0.44
1:Q:689:GLU:CD	1:Q:689:GLU:C	2.85	0.44
1:R:325:GLN:O	1:R:325:GLN:HG2	2.18	0.44
1:S:323:VAL:CG1	1:S:330:THR:CG2	2.96	0.44
1:S:581:THR:HG22	1:U:596:ASN:ND2	2.33	0.44
1:T:365:PHE:CD1	1:T:366:PRO:CD	2.95	0.44
1:T:612:TYR:HD1	1:T:726:ILE:C	2.25	0.44
1:U:612:TYR:CD1	1:U:727:GLY:CA	3.01	0.44
1:V:632:PRO:HD3	1:V:638:GLY:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:354:LEU:HA	1:W:354:LEU:HD23	1.61	0.44
1:W:413:TYR:HE2	1:W:415:PHE:CG	2.36	0.44
1:W:688:LYS:NZ	1:W:688:LYS:HB3	2.31	0.44
1:Y:314:LYS:HG2	1:Y:410:THR:CG2	2.46	0.44
1:Y:413:TYR:HE2	1:Y:415:PHE:CG	2.36	0.44
1:Z:325:GLN:O	1:Z:325:GLN:HG2	2.18	0.44
1:Z:382:ASN:ND2	1:a:706:LYS:HD3	2.33	0.44
1:Z:580:SER:CA	1:Z:592:THR:HG22	2.46	0.44
1:Z:596:ASN:ND2	1:3:581:THR:HG22	2.33	0.44
1:b:325:GLN:HG2	1:b:325:GLN:O	2.18	0.44
1:c:325:GLN:O	1:c:325:GLN:HG2	2.18	0.44
1:c:341:GLN:O	1:c:648:ILE:HA	2.17	0.44
1:e:325:GLN:O	1:e:325:GLN:HG2	2.18	0.44
1:f:413:TYR:HE2	1:f:415:PHE:CG	2.36	0.44
1:h:325:GLN:O	1:h:325:GLN:HG2	2.18	0.44
1:i:323:VAL:CG1	1:i:330:THR:CG2	2.96	0.44
1:i:596:ASN:ND2	1:k:581:THR:HG22	2.33	0.44
1:j:254:ASN:O	1:j:255:HIS:HB2	2.18	0.44
1:j:323:VAL:HG12	1:j:330:THR:HG23	2.00	0.44
1:k:612:TYR:HD1	1:k:726:ILE:C	2.25	0.44
1:k:632:PRO:HD3	1:k:638:GLY:CA	2.47	0.44
1:l:254:ASN:O	1:l:255:HIS:HB2	2.18	0.44
1:p:323:VAL:CG1	1:p:330:THR:CG2	2.96	0.44
1:q:325:GLN:O	1:q:325:GLN:HG2	2.18	0.44
1:q:351:PRO:HB3	1:s:428:GLN:HE22	1.83	0.44
1:r:323:VAL:CG1	1:r:330:THR:CG2	2.96	0.44
1:t:314:LYS:HG2	1:t:410:THR:CG2	2.46	0.44
1:t:413:TYR:HE2	1:t:415:PHE:CG	2.36	0.44
1:t:581:THR:HG22	1:u:596:ASN:ND2	2.33	0.44
1:t:698:ILE:HD12	1:u:389:ARG:HG2	2.00	0.44
1:u:339:THR:HB	1:u:403:LEU:O	2.18	0.44
1:w:273:PHE:CD2	1:w:386:ALA:HB2	2.53	0.44
1:w:314:LYS:CG	1:w:410:THR:HG22	2.46	0.44
1:x:323:VAL:HG12	1:x:330:THR:HG23	2.00	0.44
1:x:689:GLU:C	1:x:689:GLU:CD	2.85	0.44
1:y:323:VAL:HG12	1:y:330:THR:HG23	2.00	0.44
1:y:526:HIS:HD2	1:y:527:LYS:O	2.01	0.44
1:z:273:PHE:CD2	1:z:386:ALA:HB2	2.53	0.44
1:1:612:TYR:CD1	1:1:727:GLY:CA	3.01	0.44
1:1:698:ILE:HD12	1:2:389:ARG:HG2	2.00	0.44
1:2:289:CYS:SG	1:2:362:LEU:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:469:ASP:OD1	1:3:469:ASP:N	2.39	0.44
1:4:413:TYR:HE2	1:4:415:PHE:CG	2.36	0.44
1:6:365:PHE:CD1	1:6:366:PRO:CD	2.95	0.44
1:7:413:TYR:HE2	1:7:415:PHE:CG	2.36	0.44
1:8:325:GLN:O	1:8:325:GLN:HG2	2.18	0.44
1:A:273:PHE:CD2	1:A:386:ALA:HB2	2.53	0.43
1:A:413:TYR:HE2	1:A:415:PHE:CG	2.36	0.43
1:A:508:TYR:CD1	1:A:517:VAL:HG22	2.50	0.43
1:B:325:GLN:O	1:B:325:GLN:HG2	2.18	0.43
1:B:351:PRO:HB3	1:L:428:GLN:HE22	1.83	0.43
1:B:612:TYR:CD1	1:B:727:GLY:CA	3.01	0.43
1:C:365:PHE:CD1	1:C:366:PRO:CD	2.95	0.43
1:D:632:PRO:HD3	1:D:638:GLY:CA	2.47	0.43
1:D:688:LYS:NZ	1:D:688:LYS:HB3	2.31	0.43
1:F:323:VAL:HG12	1:F:330:THR:HG23	2.00	0.43
1:F:351:PRO:HB3	1:Q:428:GLN:HE22	1.83	0.43
1:F:526:HIS:HD2	1:F:527:LYS:O	2.01	0.43
1:G:289:CYS:SG	1:G:362:LEU:O	2.70	0.43
1:G:314:LYS:HG2	1:G:410:THR:CG2	2.46	0.43
1:H:325:GLN:O	1:H:325:GLN:HG2	2.18	0.43
1:H:351:PRO:HB3	1:Y:428:GLN:HE22	1.83	0.43
1:H:526:HIS:HD2	1:H:527:LYS:O	2.01	0.43
1:I:339:THR:HB	1:I:403:LEU:O	2.18	0.43
1:J:452:SER:OG	1:J:455:THR:O	2.31	0.43
1:K:382:ASN:ND2	1:7:706:LYS:HD3	2.33	0.43
1:K:413:TYR:HE2	1:K:415:PHE:CG	2.36	0.43
1:M:281:TYR:CB	1:M:647:LEU:HD13	2.48	0.43
1:N:581:THR:HG22	1:P:596:ASN:ND2	2.33	0.43
1:N:706:LYS:HD3	1:m:382:ASN:ND2	2.33	0.43
1:P:688:LYS:HB3	1:P:688:LYS:NZ	2.31	0.43
1:R:612:TYR:HD1	1:R:726:ILE:C	2.25	0.43
1:S:413:TYR:HE2	1:S:415:PHE:CG	2.36	0.43
1:T:620:LYS:HB2	1:T:642:PRO:HG3	1.98	0.43
1:U:273:PHE:CD2	1:U:386:ALA:HB2	2.53	0.43
1:U:413:TYR:HE2	1:U:415:PHE:CG	2.36	0.43
1:V:323:VAL:CG1	1:V:330:THR:CG2	2.96	0.43
1:V:325:GLN:O	1:V:325:GLN:HG2	2.18	0.43
1:W:323:VAL:CG1	1:W:330:THR:CG2	2.96	0.43
1:W:452:SER:OG	1:W:455:THR:O	2.31	0.43
1:W:581:THR:HG22	1:Y:596:ASN:ND2	2.33	0.43
1:W:612:TYR:CD1	1:W:727:GLY:CA	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:351:PRO:HB3	1:e:428:GLN:HE22	1.83	0.43
1:X:711:ASP:CG	1:X:724:ARG:HH12	2.24	0.43
1:Y:273:PHE:CD2	1:Y:386:ALA:HB2	2.53	0.43
1:Y:706:LYS:HD3	1:4:382:ASN:ND2	2.33	0.43
1:Z:449:ASN:HA	1:Z:459:ARG:H	1.82	0.43
1:b:413:TYR:HE2	1:b:415:PHE:CG	2.36	0.43
1:c:254:ASN:O	1:c:255:HIS:HB2	2.18	0.43
1:c:323:VAL:HG12	1:c:330:THR:HG23	2.00	0.43
1:e:323:VAL:HG12	1:e:330:THR:HG23	2.00	0.43
1:f:325:GLN:O	1:f:325:GLN:HG2	2.18	0.43
1:f:581:THR:HG22	1:h:596:ASN:ND2	2.33	0.43
1:g:325:GLN:HG2	1:g:325:GLN:O	2.18	0.43
1:g:612:TYR:HD1	1:g:726:ILE:C	2.25	0.43
1:h:688:LYS:NZ	1:h:688:LYS:HB3	2.31	0.43
1:i:289:CYS:SG	1:i:362:LEU:O	2.70	0.43
1:i:323:VAL:HG12	1:i:330:THR:HG23	2.00	0.43
1:j:688:LYS:NZ	1:j:688:LYS:HB3	2.31	0.43
1:l:314:LYS:CG	1:l:410:THR:HG22	2.46	0.43
1:m:365:PHE:CD1	1:m:366:PRO:CD	2.95	0.43
1:m:620:LYS:HB2	1:m:642:PRO:HG3	1.98	0.43
1:n:449:ASN:HA	1:n:459:ARG:H	1.82	0.43
1:p:325:GLN:O	1:p:325:GLN:HG2	2.18	0.43
1:p:632:PRO:HD3	1:p:638:GLY:CA	2.47	0.43
1:q:389:ARG:HG2	1:s:698:ILE:HD12	2.00	0.43
1:r:413:TYR:HE2	1:r:415:PHE:CG	2.36	0.43
1:s:273:PHE:CD2	1:s:386:ALA:HB2	2.53	0.43
1:s:413:TYR:HE2	1:s:415:PHE:CG	2.36	0.43
1:u:382:ASN:ND2	1:5:706:LYS:HD3	2.33	0.43
1:u:612:TYR:CD1	1:u:727:GLY:CA	3.01	0.43
1:v:273:PHE:CD2	1:v:386:ALA:HB2	2.53	0.43
1:w:254:ASN:O	1:w:255:HIS:HB2	2.18	0.43
1:x:323:VAL:CG1	1:x:330:THR:CG2	2.96	0.43
1:z:428:GLN:HE22	1:1:351:PRO:HB3	1.83	0.43
1:1:325:GLN:HG2	1:1:325:GLN:O	2.18	0.43
1:2:235:MET:HE2	1:2:235:MET:HB3	1.74	0.43
1:4:620:LYS:HB2	1:4:642:PRO:HG3	1.98	0.43
1:6:323:VAL:CG1	1:6:330:THR:CG2	2.96	0.43
1:6:413:TYR:HE2	1:6:415:PHE:CG	2.36	0.43
1:6:612:TYR:CD1	1:6:727:GLY:CA	3.01	0.43
1:7:273:PHE:CD2	1:7:386:ALA:HB2	2.53	0.43
1:A:325:GLN:HG2	1:A:325:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:596:ASN:ND2	1:I:581:THR:HG22	2.33	0.43
1:B:416:GLU:OE1	1:B:639:LEU:HB3	2.17	0.43
1:B:689:GLU:CD	1:B:689:GLU:C	2.86	0.43
1:C:325:GLN:O	1:C:325:GLN:HG2	2.18	0.43
1:D:281:TYR:CB	1:D:647:LEU:HD13	2.48	0.43
1:D:689:GLU:C	1:D:689:GLU:CD	2.86	0.43
1:E:389:ARG:HG2	1:F:698:ILE:HD12	2.00	0.43
1:F:389:ARG:HG2	1:Q:698:ILE:HD12	2.00	0.43
1:H:389:ARG:HG2	1:Y:698:ILE:HD12	2.00	0.43
1:I:273:PHE:CD2	1:I:386:ALA:HB2	2.53	0.43
1:I:314:LYS:CG	1:I:410:THR:HG22	2.46	0.43
1:I:612:TYR:CD1	1:I:727:GLY:CA	3.01	0.43
1:J:581:THR:HG22	1:L:596:ASN:ND2	2.33	0.43
1:K:339:THR:HB	1:K:403:LEU:O	2.18	0.43
1:K:688:LYS:NZ	1:K:688:LYS:HB3	2.31	0.43
1:L:339:THR:HB	1:L:403:LEU:O	2.18	0.43
1:L:689:GLU:C	1:L:689:GLU:CD	2.86	0.43
1:N:325:GLN:O	1:N:325:GLN:HG2	2.18	0.43
1:O:323:VAL:CG1	1:O:330:THR:CG2	2.96	0.43
1:O:689:GLU:CD	1:O:689:GLU:C	2.86	0.43
1:P:413:TYR:HE2	1:P:415:PHE:CG	2.36	0.43
1:Q:323:VAL:CG1	1:Q:330:THR:CG2	2.96	0.43
1:Q:325:GLN:HG2	1:Q:325:GLN:O	2.18	0.43
1:R:389:ARG:HG2	1:U:698:ILE:HD12	2.00	0.43
1:T:382:ASN:ND2	1:i:706:LYS:HD3	2.33	0.43
1:U:323:VAL:CG1	1:U:330:THR:CG2	2.96	0.43
1:Y:323:VAL:HG12	1:Y:330:THR:HG23	2.00	0.43
1:Z:281:TYR:CB	1:Z:647:LEU:HD13	2.48	0.43
1:Z:469:ASP:OD1	1:Z:469:ASP:N	2.39	0.43
1:a:469:ASP:OD1	1:a:469:ASP:N	2.39	0.43
1:b:242:THR:CG2	1:b:681:GLU:CG	2.81	0.43
1:b:314:LYS:HG2	1:b:410:THR:CG2	2.46	0.43
1:b:612:TYR:CD1	1:b:727:GLY:CA	3.01	0.43
1:c:428:GLN:HE22	1:o:351:PRO:HB3	1.83	0.43
1:e:254:ASN:O	1:e:255:HIS:HB2	2.18	0.43
1:f:612:TYR:CD1	1:f:727:GLY:CA	3.01	0.43
1:g:323:VAL:HG12	1:g:330:THR:HG23	2.00	0.43
1:h:526:HIS:HD2	1:h:527:LYS:O	2.01	0.43
1:h:612:TYR:CD1	1:h:727:GLY:CA	3.01	0.43
1:i:581:THR:HG22	1:j:596:ASN:ND2	2.33	0.43
1:j:325:GLN:HG2	1:j:325:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:339:THR:HB	1:j:403:LEU:O	2.18	0.43
1:j:413:TYR:HE2	1:j:415:PHE:CG	2.36	0.43
1:k:612:TYR:CD1	1:k:727:GLY:CA	3.01	0.43
1:k:689:GLU:C	1:k:689:GLU:CD	2.86	0.43
1:l:323:VAL:CG1	1:l:330:THR:CG2	2.96	0.43
1:l:323:VAL:HG12	1:l:330:THR:HG23	2.00	0.43
1:l:689:GLU:CD	1:l:689:GLU:C	2.86	0.43
1:o:325:GLN:HG2	1:o:325:GLN:O	2.18	0.43
1:q:612:TYR:HD1	1:q:726:ILE:C	2.25	0.43
1:s:323:VAL:CG1	1:s:330:THR:CG2	2.96	0.43
1:s:689:GLU:C	1:s:689:GLU:CD	2.86	0.43
1:v:413:TYR:HE2	1:v:415:PHE:CG	2.36	0.43
1:v:689:GLU:CD	1:v:689:GLU:C	2.86	0.43
1:x:428:GLN:HE22	1:y:351:PRO:HB3	1.83	0.43
1:x:698:ILE:HD12	1:y:389:ARG:HG2	2.00	0.43
1:z:281:TYR:CB	1:z:647:LEU:HD13	2.48	0.43
1:1:416:GLU:OE1	1:1:639:LEU:HB3	2.17	0.43
1:1:689:GLU:CD	1:1:689:GLU:C	2.86	0.43
1:2:323:VAL:CG1	1:2:330:THR:CG2	2.96	0.43
1:2:612:TYR:CD1	1:2:727:GLY:CA	3.01	0.43
1:5:325:GLN:O	1:5:325:GLN:HG2	2.18	0.43
1:5:351:PRO:HB3	1:7:428:GLN:HE22	1.83	0.43
1:5:389:ARG:HG2	1:7:698:ILE:HD12	2.00	0.43
1:5:449:ASN:HA	1:5:459:ARG:H	1.82	0.43
1:5:526:HIS:HD2	1:5:527:LYS:O	2.01	0.43
1:6:254:ASN:O	1:6:255:HIS:HB2	2.18	0.43
1:6:581:THR:HG22	1:7:596:ASN:ND2	2.33	0.43
1:7:314:LYS:HG2	1:7:410:THR:CG2	2.46	0.43
1:8:281:TYR:CB	1:8:647:LEU:HD13	2.48	0.43
1:D:242:THR:CG2	1:D:681:GLU:CG	2.81	0.43
1:F:323:VAL:CG1	1:F:330:THR:CG2	2.96	0.43
1:F:325:GLN:HG2	1:F:325:GLN:O	2.18	0.43
1:G:323:VAL:CG1	1:G:330:THR:CG2	2.96	0.43
1:J:323:VAL:CG1	1:J:330:THR:CG2	2.96	0.43
1:J:526:HIS:HD2	1:J:527:LYS:O	2.01	0.43
1:J:612:TYR:CD1	1:J:727:GLY:CA	3.01	0.43
1:K:620:LYS:HB2	1:K:642:PRO:HG3	1.98	0.43
1:L:281:TYR:CB	1:L:647:LEU:HD13	2.48	0.43
1:M:273:PHE:CD2	1:M:386:ALA:HB2	2.53	0.43
1:M:526:HIS:HD2	1:M:527:LYS:O	2.01	0.43
1:M:612:TYR:CD1	1:M:727:GLY:CA	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:689:GLU:CD	1:M:689:GLU:C	2.86	0.43
1:N:323:VAL:HG12	1:N:330:THR:HG23	2.00	0.43
1:N:698:ILE:HD12	1:P:389:ARG:HG2	2.00	0.43
1:O:323:VAL:HG12	1:O:330:THR:HG23	2.00	0.43
1:O:389:ARG:HG2	1:n:698:ILE:HD12	2.00	0.43
1:P:323:VAL:CG1	1:P:330:THR:CG2	2.96	0.43
1:P:325:GLN:O	1:P:325:GLN:HG2	2.18	0.43
1:P:339:THR:HB	1:P:403:LEU:O	2.18	0.43
1:R:254:ASN:O	1:R:255:HIS:HB2	2.18	0.43
1:R:273:PHE:CD2	1:R:386:ALA:HB2	2.53	0.43
1:R:596:ASN:ND2	1:U:581:THR:HG22	2.33	0.43
1:R:698:ILE:HD12	1:S:389:ARG:HG2	2.00	0.43
1:T:698:ILE:HD12	1:d:389:ARG:HG2	2.00	0.43
1:U:354:LEU:HA	1:U:354:LEU:HD23	1.61	0.43
1:U:706:LYS:HD3	1:e:382:ASN:ND2	2.32	0.43
1:V:281:TYR:CB	1:V:647:LEU:HD13	2.48	0.43
1:V:351:PRO:HB3	1:X:428:GLN:HE22	1.83	0.43
1:W:254:ASN:O	1:W:255:HIS:HB2	2.18	0.43
1:W:314:LYS:CG	1:W:410:THR:HG22	2.46	0.43
1:X:325:GLN:O	1:X:325:GLN:HG2	2.18	0.43
1:Y:340:VAL:HG23	1:Y:340:VAL:O	2.19	0.43
1:Y:612:TYR:CD1	1:Y:727:GLY:CA	3.01	0.43
1:Z:273:PHE:CD2	1:Z:386:ALA:HB2	2.53	0.43
1:b:580:SER:CA	1:b:592:THR:HG22	2.46	0.43
1:c:323:VAL:CG1	1:c:330:THR:CG2	2.96	0.43
1:c:382:ASN:ND2	1:s:706:LYS:HD3	2.32	0.43
1:e:323:VAL:CG1	1:e:330:THR:CG2	2.96	0.43
1:h:273:PHE:CD2	1:h:386:ALA:HB2	2.53	0.43
1:h:689:GLU:CD	1:h:689:GLU:C	2.86	0.43
1:i:325:GLN:HG2	1:i:325:GLN:O	2.18	0.43
1:j:449:ASN:HA	1:j:459:ARG:H	1.82	0.43
1:k:281:TYR:CB	1:k:647:LEU:HD13	2.48	0.43
1:m:698:ILE:HD12	1:n:389:ARG:HG2	2.00	0.43
1:n:323:VAL:CG1	1:n:330:THR:CG2	2.96	0.43
1:n:526:HIS:HD2	1:n:527:LYS:O	2.01	0.43
1:o:711:ASP:CG	1:o:724:ARG:HH12	2.24	0.43
1:q:254:ASN:O	1:q:255:HIS:HB2	2.18	0.43
1:q:273:PHE:CD2	1:q:386:ALA:HB2	2.53	0.43
1:t:323:VAL:CG1	1:t:330:THR:CG2	2.96	0.43
1:u:273:PHE:CD2	1:u:386:ALA:HB2	2.53	0.43
1:u:612:TYR:HD1	1:u:726:ILE:C	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:325:GLN:O	1:v:325:GLN:HG2	2.18	0.43
1:v:382:ASN:ND2	1:1:706:LYS:HD3	2.32	0.43
1:w:389:ARG:HG2	1:y:698:ILE:HD12	2.00	0.43
1:x:325:GLN:O	1:x:325:GLN:HG2	2.18	0.43
1:y:323:VAL:CG1	1:y:330:THR:CG2	2.96	0.43
1:y:325:GLN:O	1:y:325:GLN:HG2	2.18	0.43
1:z:339:THR:HB	1:z:403:LEU:O	2.18	0.43
1:z:596:ASN:ND2	1:2:581:THR:HG22	2.33	0.43
1:1:323:VAL:CG1	1:1:330:THR:CG2	2.96	0.43
1:1:688:LYS:NZ	1:1:688:LYS:HB3	2.31	0.43
1:4:339:THR:HB	1:4:403:LEU:O	2.18	0.43
1:7:323:VAL:HG12	1:7:330:THR:HG23	2.00	0.43
1:7:340:VAL:HG23	1:7:340:VAL:O	2.19	0.43
1:8:469:ASP:OD1	1:8:469:ASP:N	2.39	0.43
1:A:382:ASN:ND2	1:B:706:LYS:HD3	2.32	0.43
1:A:581:THR:HG22	1:G:596:ASN:ND2	2.33	0.43
1:B:323:VAL:CG1	1:B:330:THR:CG2	2.96	0.43
1:C:323:VAL:HG12	1:C:330:THR:HG23	2.00	0.43
1:C:612:TYR:CD1	1:C:727:GLY:CA	3.01	0.43
1:H:273:PHE:CD2	1:H:386:ALA:HB2	2.53	0.43
1:H:449:ASN:HA	1:H:459:ARG:H	1.82	0.43
1:I:612:TYR:HD1	1:I:726:ILE:C	2.25	0.43
1:J:706:LYS:HD3	1:a:382:ASN:ND2	2.32	0.43
1:K:340:VAL:O	1:K:340:VAL:HG23	2.18	0.43
1:K:689:GLU:C	1:K:689:GLU:CD	2.85	0.43
1:L:325:GLN:HG2	1:L:325:GLN:O	2.18	0.43
1:O:413:TYR:HE2	1:O:415:PHE:CG	2.36	0.43
1:O:706:LYS:HD3	1:P:382:ASN:ND2	2.33	0.43
1:T:413:TYR:HE2	1:T:415:PHE:CG	2.36	0.43
1:U:325:GLN:O	1:U:325:GLN:HG2	2.18	0.43
1:V:449:ASN:HA	1:V:459:ARG:H	1.82	0.43
1:a:689:GLU:CD	1:a:689:GLU:C	2.86	0.43
1:c:526:HIS:HD2	1:c:527:LYS:O	2.01	0.43
1:d:323:VAL:CG1	1:d:330:THR:CG2	2.96	0.43
1:d:526:HIS:HD2	1:d:527:LYS:O	2.01	0.43
1:d:698:ILE:HD12	1:l:389:ARG:HG2	2.00	0.43
1:e:526:HIS:HD2	1:e:527:LYS:O	2.01	0.43
1:f:314:LYS:HG2	1:f:410:THR:CG2	2.46	0.43
1:f:580:SER:CA	1:f:592:THR:HG22	2.46	0.43
1:g:365:PHE:CD1	1:g:366:PRO:CD	2.95	0.43
1:g:612:TYR:CD1	1:g:727:GLY:CA	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:413:TYR:HE2	1:h:415:PHE:CG	2.36	0.43
1:h:706:LYS:HD3	1:i:382:ASN:ND2	2.33	0.43
1:i:235:MET:HE2	1:i:235:MET:HB3	1.74	0.43
1:i:698:ILE:HD12	1:j:389:ARG:HG2	2.00	0.43
1:j:273:PHE:CD2	1:j:386:ALA:HB2	2.53	0.43
1:j:323:VAL:CG1	1:j:330:THR:CG2	2.96	0.43
1:k:688:LYS:NZ	1:k:688:LYS:HB3	2.31	0.43
1:l:413:TYR:HE2	1:l:415:PHE:CG	2.36	0.43
1:m:413:TYR:HE2	1:m:415:PHE:CG	2.36	0.43
1:o:281:TYR:CB	1:o:647:LEU:HD13	2.48	0.43
1:o:413:TYR:HE2	1:o:415:PHE:CG	2.36	0.43
1:o:428:GLN:HE22	1:p:351:PRO:HB3	1.83	0.43
1:p:281:TYR:CB	1:p:647:LEU:HD13	2.48	0.43
1:q:508:TYR:CD1	1:q:517:VAL:HG22	2.50	0.43
1:q:596:ASN:ND2	1:s:581:THR:HG22	2.33	0.43
1:q:698:ILE:HD12	1:r:389:ARG:HG2	2.00	0.43
1:s:325:GLN:O	1:s:325:GLN:HG2	2.18	0.43
1:u:314:LYS:CG	1:u:410:THR:HG22	2.46	0.43
1:u:340:VAL:O	1:u:340:VAL:HG23	2.18	0.43
1:u:581:THR:HG22	1:v:596:ASN:ND2	2.33	0.43
1:w:314:LYS:HG2	1:w:410:THR:CG2	2.46	0.43
1:z:689:GLU:C	1:z:689:GLU:CD	2.86	0.43
1:2:449:ASN:HA	1:2:459:ARG:H	1.82	0.43
1:2:526:HIS:HD2	1:2:527:LYS:O	2.01	0.43
1:3:689:GLU:CD	1:3:689:GLU:C	2.86	0.43
1:4:340:VAL:O	1:4:340:VAL:HG23	2.18	0.43
1:4:689:GLU:C	1:4:689:GLU:CD	2.85	0.43
1:5:273:PHE:CD2	1:5:386:ALA:HB2	2.53	0.43
1:6:428:GLN:HE22	1:7:351:PRO:HB3	1.83	0.43
1:7:612:TYR:CD1	1:7:727:GLY:CA	3.01	0.43
1:8:273:PHE:CD2	1:8:386:ALA:HB2	2.53	0.43
1:A:612:TYR:CD1	1:A:727:GLY:CA	3.01	0.43
1:B:273:PHE:CD2	1:B:386:ALA:HB2	2.53	0.43
1:C:389:ARG:HG2	1:M:698:ILE:HD12	2.00	0.43
1:C:526:HIS:HD2	1:C:527:LYS:O	2.01	0.43
1:E:314:LYS:HG2	1:E:410:THR:CG2	2.46	0.43
1:I:340:VAL:O	1:I:340:VAL:HG23	2.18	0.43
1:J:273:PHE:CD2	1:J:386:ALA:HB2	2.53	0.43
1:K:581:THR:HG22	1:a:596:ASN:ND2	2.33	0.43
1:L:243:SER:HB2	1:L:245:ARG:HH12	1.84	0.43
1:L:396:GLU:C	1:L:398:PHE:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:413:TYR:HE2	1:M:415:PHE:CG	2.36	0.43
1:N:273:PHE:CD2	1:N:386:ALA:HB2	2.53	0.43
1:O:325:GLN:HG2	1:O:325:GLN:O	2.18	0.43
1:O:612:TYR:HD1	1:O:726:ILE:C	2.25	0.43
1:P:273:PHE:CD2	1:P:386:ALA:HB2	2.53	0.43
1:P:449:ASN:HA	1:P:459:ARG:H	1.82	0.43
1:P:526:HIS:HD2	1:P:527:LYS:O	2.01	0.43
1:R:243:SER:HB2	1:R:245:ARG:HH12	1.84	0.43
1:R:508:TYR:CD1	1:R:517:VAL:HG22	2.50	0.43
1:R:526:HIS:HD2	1:R:527:LYS:O	2.01	0.43
1:X:243:SER:HB2	1:X:245:ARG:HH12	1.84	0.43
1:X:281:TYR:CB	1:X:647:LEU:HD13	2.48	0.43
1:X:413:TYR:HE2	1:X:415:PHE:CG	2.36	0.43
1:Y:339:THR:HB	1:Y:403:LEU:O	2.18	0.43
1:Z:242:THR:CG2	1:Z:681:GLU:CG	2.81	0.43
1:a:413:TYR:HE2	1:a:415:PHE:CG	2.36	0.43
1:b:314:LYS:CG	1:b:410:THR:HG22	2.46	0.43
1:b:689:GLU:C	1:b:689:GLU:CD	2.86	0.43
1:c:340:VAL:O	1:c:340:VAL:HG23	2.19	0.43
1:d:243:SER:HB2	1:d:245:ARG:HH12	1.84	0.43
1:d:612:TYR:CD1	1:d:727:GLY:CA	3.01	0.43
1:e:314:LYS:HG2	1:e:410:THR:CG2	2.46	0.43
1:e:340:VAL:O	1:e:340:VAL:HG23	2.19	0.43
1:e:612:TYR:HD1	1:e:726:ILE:C	2.25	0.43
1:f:273:PHE:CD2	1:f:386:ALA:HB2	2.53	0.43
1:g:389:ARG:HG2	1:h:698:ILE:HD12	2.00	0.43
1:g:526:HIS:HD2	1:g:527:LYS:O	2.01	0.43
1:g:529:ASP:O	1:g:529:ASP:CG	2.62	0.43
1:i:273:PHE:CD2	1:i:386:ALA:HB2	2.53	0.43
1:l:325:GLN:HG2	1:l:325:GLN:O	2.18	0.43
1:l:612:TYR:CD1	1:l:727:GLY:CA	3.01	0.43
1:l:612:TYR:HD1	1:l:726:ILE:C	2.25	0.43
1:m:314:LYS:CG	1:m:410:THR:HG22	2.46	0.43
1:m:323:VAL:HG12	1:m:330:THR:HG23	2.00	0.43
1:m:706:LYS:HD3	1:s:382:ASN:ND2	2.32	0.43
1:n:243:SER:HB2	1:n:245:ARG:HH12	1.84	0.43
1:n:254:ASN:O	1:n:255:HIS:HB2	2.18	0.43
1:n:612:TYR:CD1	1:n:727:GLY:CA	3.01	0.43
1:o:243:SER:HB2	1:o:245:ARG:HH12	1.84	0.43
1:q:243:SER:HB2	1:q:245:ARG:HH12	1.84	0.43
1:q:526:HIS:HD2	1:q:527:LYS:O	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:273:PHE:CD2	1:t:386:ALA:HB2	2.53	0.43
1:t:340:VAL:O	1:t:340:VAL:HG23	2.18	0.43
1:x:581:THR:HG22	1:y:596:ASN:ND2	2.33	0.43
1:y:273:PHE:CD2	1:y:386:ALA:HB2	2.53	0.43
1:z:243:SER:HB2	1:z:245:ARG:HH12	1.84	0.43
1:z:323:VAL:HG12	1:z:330:THR:HG23	2.00	0.43
1:z:325:GLN:HG2	1:z:325:GLN:O	2.18	0.43
1:3:413:TYR:HE2	1:3:415:PHE:CG	2.36	0.43
1:3:612:TYR:HD1	1:3:726:ILE:C	2.25	0.43
1:4:688:LYS:NZ	1:4:688:LYS:HB3	2.31	0.43
1:6:314:LYS:CG	1:6:410:THR:HG22	2.46	0.43
1:7:254:ASN:O	1:7:255:HIS:HB2	2.18	0.43
1:7:325:GLN:O	1:7:325:GLN:HG2	2.18	0.43
1:A:323:VAL:HG12	1:A:330:THR:HG23	2.00	0.43
1:C:529:ASP:O	1:C:529:ASP:CG	2.62	0.43
1:F:273:PHE:CD2	1:F:386:ALA:HB2	2.53	0.43
1:F:596:ASN:ND2	1:Q:581:THR:HG22	2.33	0.43
1:G:273:PHE:CD2	1:G:386:ALA:HB2	2.53	0.43
1:G:340:VAL:O	1:G:340:VAL:HG23	2.18	0.43
1:H:413:TYR:HE2	1:H:415:PHE:CG	2.36	0.43
1:I:243:SER:HB2	1:I:245:ARG:HH12	1.84	0.43
1:J:325:GLN:O	1:J:325:GLN:HG2	2.18	0.43
1:J:449:ASN:HA	1:J:459:ARG:H	1.82	0.43
1:L:323:VAL:HG12	1:L:330:THR:HG23	2.00	0.43
1:M:238:ARG:HD2	1:M:683:GLU:OE2	2.19	0.43
1:M:706:LYS:HD3	1:N:382:ASN:ND2	2.33	0.43
1:N:612:TYR:HD1	1:N:726:ILE:C	2.25	0.43
1:O:612:TYR:CD1	1:O:727:GLY:CA	3.01	0.43
1:O:698:ILE:HD12	1:m:389:ARG:HG2	2.00	0.43
1:S:238:ARG:HD2	1:S:683:GLU:OE2	2.19	0.43
1:S:449:ASN:HA	1:S:459:ARG:H	1.82	0.43
1:T:273:PHE:CD2	1:T:386:ALA:HB2	2.53	0.43
1:T:323:VAL:HG12	1:T:330:THR:HG23	2.00	0.43
1:T:389:ARG:HG2	1:l:698:ILE:HD12	2.00	0.43
1:V:389:ARG:HG2	1:X:698:ILE:HD12	2.00	0.43
1:W:243:SER:HB2	1:W:245:ARG:HH12	1.84	0.43
1:W:340:VAL:O	1:W:340:VAL:HG23	2.19	0.43
1:W:428:GLN:HE22	1:Y:351:PRO:HB3	1.83	0.43
1:Y:254:ASN:O	1:Y:255:HIS:HB2	2.18	0.43
1:Y:325:GLN:HG2	1:Y:325:GLN:O	2.18	0.43
1:Z:243:SER:HB2	1:Z:245:ARG:HH12	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:254:ASN:O	1:Z:255:HIS:HB2	2.18	0.43
1:Z:413:TYR:HE2	1:Z:415:PHE:CG	2.36	0.43
1:a:281:TYR:CB	1:a:647:LEU:HD13	2.48	0.43
1:a:612:TYR:HD1	1:a:726:ILE:C	2.25	0.43
1:b:273:PHE:CD2	1:b:386:ALA:HB2	2.53	0.43
1:b:339:THR:HB	1:b:403:LEU:O	2.18	0.43
1:c:243:SER:HB2	1:c:245:ARG:HH12	1.84	0.43
1:c:339:THR:CG2	1:c:404:ARG:HG3	2.49	0.43
1:c:413:TYR:HE2	1:c:415:PHE:CG	2.36	0.43
1:c:612:TYR:HD1	1:c:726:ILE:C	2.25	0.43
1:d:254:ASN:O	1:d:255:HIS:HB2	2.18	0.43
1:e:243:SER:HB2	1:e:245:ARG:HH12	1.84	0.43
1:e:339:THR:CG2	1:e:404:ARG:HG3	2.49	0.43
1:f:526:HIS:HD2	1:f:527:LYS:O	2.01	0.43
1:h:235:MET:HE2	1:h:235:MET:HB3	1.74	0.43
1:h:238:ARG:HD2	1:h:683:GLU:OE2	2.19	0.43
1:i:612:TYR:HD1	1:i:726:ILE:C	2.25	0.43
1:j:298:ARG:NH2	1:w:689:GLU:OE2	2.44	0.43
1:j:382:ASN:ND2	1:l:706:LYS:HD3	2.33	0.43
1:j:526:HIS:HD2	1:j:527:LYS:O	2.01	0.43
1:m:254:ASN:O	1:m:255:HIS:HB2	2.18	0.43
1:m:273:PHE:CD2	1:m:386:ALA:HB2	2.53	0.43
1:n:325:GLN:O	1:n:325:GLN:HG2	2.18	0.43
1:p:449:ASN:HA	1:p:459:ARG:H	1.82	0.43
1:r:238:ARG:HD2	1:r:683:GLU:OE2	2.19	0.43
1:r:325:GLN:HG2	1:r:325:GLN:O	2.18	0.43
1:t:596:ASN:ND2	1:v:581:THR:HG22	2.33	0.43
1:u:243:SER:HB2	1:u:245:ARG:HH12	1.84	0.43
1:v:298:ARG:NH2	1:y:689:GLU:OE2	2.44	0.43
1:v:612:TYR:CD1	1:v:727:GLY:CA	3.01	0.43
1:1:273:PHE:CD2	1:1:386:ALA:HB2	2.53	0.43
1:2:273:PHE:CD2	1:2:386:ALA:HB2	2.53	0.43
1:2:325:GLN:O	1:2:325:GLN:HG2	2.18	0.43
1:2:706:LYS:HD3	1:3:382:ASN:ND2	2.32	0.43
1:3:354:LEU:HA	1:3:354:LEU:HD23	1.61	0.43
1:3:526:HIS:HD2	1:3:527:LYS:O	2.01	0.43
1:5:254:ASN:O	1:5:255:HIS:HB2	2.18	0.43
1:5:413:TYR:HE2	1:5:415:PHE:CG	2.36	0.43
1:6:243:SER:HB2	1:6:245:ARG:HH12	1.84	0.43
1:6:325:GLN:HG2	1:6:325:GLN:O	2.18	0.43
1:7:242:THR:CG2	1:7:681:GLU:CG	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:339:THR:HB	1:7:403:LEU:O	2.18	0.43
1:8:243:SER:HB2	1:8:245:ARG:HH12	1.84	0.43
1:D:526:HIS:HD2	1:D:527:LYS:O	2.01	0.43
1:E:222:GLY:C	1:E:223:ASN:OD1	2.62	0.43
1:E:689:GLU:OE2	1:P:298:ARG:NH2	2.44	0.43
1:F:322:GLU:HG3	1:F:335:ASN:HB2	2.01	0.43
1:H:254:ASN:O	1:H:255:HIS:HB2	2.18	0.43
1:I:529:ASP:O	1:I:529:ASP:CG	2.62	0.43
1:J:314:LYS:CG	1:J:410:THR:HG22	2.46	0.43
1:N:413:TYR:HE2	1:N:415:PHE:CG	2.36	0.43
1:O:238:ARG:HD2	1:O:683:GLU:OE2	2.19	0.43
1:Q:243:SER:HB2	1:Q:245:ARG:HH12	1.84	0.43
1:Q:254:ASN:O	1:Q:255:HIS:HB2	2.18	0.43
1:Q:526:HIS:HD2	1:Q:527:LYS:O	2.01	0.43
1:R:529:ASP:O	1:R:529:ASP:CG	2.62	0.43
1:T:254:ASN:O	1:T:255:HIS:HB2	2.18	0.43
1:T:314:LYS:CG	1:T:410:THR:HG22	2.46	0.43
1:T:452:SER:OG	1:T:455:THR:O	2.31	0.43
1:T:706:LYS:HD3	1:U:382:ASN:ND2	2.32	0.43
1:V:698:ILE:HD12	1:e:389:ARG:HG2	2.00	0.43
1:W:273:PHE:CD2	1:W:386:ALA:HB2	2.53	0.43
1:W:325:GLN:HG2	1:W:325:GLN:O	2.18	0.43
1:W:580:SER:CA	1:W:592:THR:HG22	2.46	0.43
1:X:222:GLY:C	1:X:223:ASN:OD1	2.62	0.43
1:Y:322:GLU:HG3	1:Y:335:ASN:HB2	2.01	0.43
1:Z:339:THR:HB	1:Z:403:LEU:O	2.18	0.43
1:a:238:ARG:HD2	1:a:683:GLU:OE2	2.19	0.43
1:a:339:THR:HB	1:a:403:LEU:O	2.18	0.43
1:a:526:HIS:HD2	1:a:527:LYS:O	2.01	0.43
1:a:653:VAL:HA	1:a:654:PRO:HD3	1.90	0.43
1:b:222:GLY:C	1:b:223:ASN:OD1	2.62	0.43
1:b:526:HIS:HD2	1:b:527:LYS:O	2.01	0.43
1:c:222:GLY:C	1:c:223:ASN:OD1	2.62	0.43
1:c:314:LYS:HG2	1:c:410:THR:CG2	2.46	0.43
1:c:529:ASP:O	1:c:529:ASP:CG	2.62	0.43
1:e:413:TYR:HE2	1:e:415:PHE:CG	2.36	0.43
1:e:529:ASP:O	1:e:529:ASP:CG	2.62	0.43
1:f:222:GLY:C	1:f:223:ASN:OD1	2.62	0.43
1:f:242:THR:CG2	1:f:681:GLU:CG	2.81	0.43
1:f:314:LYS:CG	1:f:410:THR:HG22	2.46	0.43
1:f:689:GLU:CD	1:f:689:GLU:C	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:243:SER:HB2	1:g:245:ARG:HH12	1.84	0.43
1:i:413:TYR:HE2	1:i:415:PHE:CG	2.36	0.43
1:k:242:THR:CG2	1:k:681:GLU:CG	2.81	0.43
1:l:526:HIS:HD2	1:l:527:LYS:O	2.01	0.43
1:o:222:GLY:C	1:o:223:ASN:OD1	2.62	0.43
1:o:698:ILE:HD12	1:p:389:ARG:HG2	2.00	0.43
1:q:340:VAL:O	1:q:340:VAL:HG23	2.18	0.43
1:r:449:ASN:HA	1:r:459:ARG:H	1.82	0.43
1:t:339:THR:HB	1:t:403:LEU:O	2.18	0.43
1:u:529:ASP:O	1:u:529:ASP:CG	2.62	0.43
1:v:339:THR:HB	1:v:403:LEU:O	2.18	0.43
1:v:526:HIS:HD2	1:v:527:LYS:O	2.01	0.43
1:w:222:GLY:C	1:w:223:ASN:OD1	2.62	0.43
1:x:243:SER:HB2	1:x:245:ARG:HH12	1.84	0.43
1:x:254:ASN:O	1:x:255:HIS:HB2	2.18	0.43
1:3:281:TYR:CB	1:3:647:LEU:HD13	2.48	0.43
1:3:596:ASN:ND2	1:4:581:THR:HG22	2.33	0.43
1:4:323:VAL:HG12	1:4:330:THR:HG23	2.00	0.43
1:6:273:PHE:CD2	1:6:386:ALA:HB2	2.53	0.43
1:6:340:VAL:O	1:6:340:VAL:HG23	2.19	0.43
1:7:322:GLU:HG3	1:7:335:ASN:HB2	2.01	0.43
1:7:526:HIS:HD2	1:7:527:LYS:O	2.01	0.43
1:8:254:ASN:O	1:8:255:HIS:HB2	2.18	0.43
1:8:339:THR:HB	1:8:403:LEU:O	2.18	0.43
1:8:413:TYR:HE2	1:8:415:PHE:CG	2.36	0.43
1:8:526:HIS:HD2	1:8:527:LYS:O	2.01	0.43
1:A:323:VAL:CG1	1:A:330:THR:CG2	2.96	0.43
1:A:339:THR:HB	1:A:403:LEU:O	2.18	0.43
1:B:596:ASN:ND2	1:L:581:THR:HG22	2.33	0.43
1:C:243:SER:HB2	1:C:245:ARG:HH12	1.84	0.43
1:E:351:PRO:HB3	1:F:428:GLN:HE22	1.83	0.43
1:E:413:TYR:HE2	1:E:415:PHE:CG	2.36	0.43
1:F:254:ASN:O	1:F:255:HIS:HB2	2.18	0.43
1:F:413:TYR:HE2	1:F:415:PHE:CG	2.36	0.43
1:G:322:GLU:HG3	1:G:335:ASN:HB2	2.01	0.43
1:G:339:THR:HB	1:G:403:LEU:O	2.18	0.43
1:H:238:ARG:HD2	1:H:683:GLU:OE2	2.19	0.43
1:I:339:THR:CG2	1:I:404:ARG:HG3	2.49	0.43
1:K:273:PHE:CD2	1:K:386:ALA:HB2	2.53	0.43
1:K:323:VAL:HG12	1:K:330:THR:HG23	2.00	0.43
1:K:706:LYS:HD3	1:L:382:ASN:ND2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:526:HIS:HD2	1:L:527:LYS:O	2.01	0.43
1:O:526:HIS:HD2	1:O:527:LYS:O	2.01	0.43
1:P:340:VAL:O	1:P:340:VAL:HG23	2.19	0.43
1:Q:222:GLY:C	1:Q:223:ASN:OD1	2.62	0.43
1:R:413:TYR:HE2	1:R:415:PHE:CG	2.36	0.43
1:S:322:GLU:HG3	1:S:335:ASN:HB2	2.01	0.43
1:S:325:GLN:O	1:S:325:GLN:HG2	2.18	0.43
1:T:428:GLN:HE22	1:d:351:PRO:HB3	1.83	0.43
1:U:222:GLY:C	1:U:223:ASN:OD1	2.62	0.43
1:V:222:GLY:C	1:V:223:ASN:OD1	2.62	0.43
1:V:689:GLU:CD	1:V:689:GLU:C	2.85	0.43
1:X:322:GLU:HG3	1:X:335:ASN:HB2	2.01	0.43
1:Y:222:GLY:C	1:Y:223:ASN:OD1	2.62	0.43
1:Y:242:THR:CG2	1:Y:681:GLU:CG	2.81	0.43
1:Y:526:HIS:HD2	1:Y:527:LYS:O	2.01	0.43
1:a:322:GLU:HG3	1:a:335:ASN:HB2	2.01	0.43
1:a:339:THR:CG2	1:a:404:ARG:HG3	2.49	0.43
1:c:389:ARG:HG2	1:p:698:ILE:HD12	2.00	0.43
1:d:325:GLN:HG2	1:d:325:GLN:O	2.18	0.43
1:d:508:TYR:CD1	1:d:517:VAL:HG22	2.50	0.43
1:e:222:GLY:C	1:e:223:ASN:OD1	2.62	0.43
1:f:339:THR:HB	1:f:403:LEU:O	2.18	0.43
1:f:698:ILE:HD12	1:h:389:ARG:HG2	2.00	0.43
1:g:340:VAL:O	1:g:340:VAL:HG23	2.18	0.43
1:i:222:GLY:C	1:i:223:ASN:OD1	2.62	0.43
1:i:243:SER:HB2	1:i:245:ARG:HH12	1.84	0.43
1:i:526:HIS:HD2	1:i:527:LYS:O	2.01	0.43
1:j:340:VAL:O	1:j:340:VAL:HG23	2.19	0.43
1:k:273:PHE:CD2	1:k:386:ALA:HB2	2.53	0.43
1:k:526:HIS:HD2	1:k:527:LYS:O	2.01	0.43
1:l:238:ARG:HD2	1:l:683:GLU:OE2	2.19	0.43
1:m:452:SER:OG	1:m:455:THR:O	2.31	0.43
1:o:339:THR:HB	1:o:403:LEU:O	2.18	0.43
1:o:529:ASP:O	1:o:529:ASP:CG	2.62	0.43
1:p:222:GLY:C	1:p:223:ASN:OD1	2.62	0.43
1:q:529:ASP:O	1:q:529:ASP:CG	2.62	0.43
1:r:281:TYR:CB	1:r:647:LEU:HD13	2.48	0.43
1:s:222:GLY:C	1:s:223:ASN:OD1	2.62	0.43
1:t:322:GLU:HG3	1:t:335:ASN:HB2	2.01	0.43
1:u:339:THR:CG2	1:u:404:ARG:HG3	2.49	0.43
1:v:323:VAL:HG12	1:v:330:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:428:GLN:HE22	1:x:351:PRO:HB3	1.83	0.43
1:w:452:SER:OG	1:w:455:THR:O	2.31	0.43
1:x:526:HIS:HD2	1:x:527:LYS:O	2.01	0.43
1:y:322:GLU:HG3	1:y:335:ASN:HB2	2.01	0.43
1:z:396:GLU:C	1:z:398:PHE:N	2.76	0.43
1:3:238:ARG:HD2	1:3:683:GLU:OE2	2.19	0.43
1:3:322:GLU:HG3	1:3:335:ASN:HB2	2.01	0.43
1:4:273:PHE:CD2	1:4:386:ALA:HB2	2.53	0.43
1:5:323:VAL:HG12	1:5:330:THR:HG23	2.00	0.43
1:6:529:ASP:O	1:6:529:ASP:CG	2.62	0.43
1:6:580:SER:CA	1:6:592:THR:HG22	2.46	0.43
1:7:222:GLY:C	1:7:223:ASN:OD1	2.62	0.43
1:8:323:VAL:HG12	1:8:330:THR:HG23	2.00	0.43
1:A:222:GLY:C	1:A:223:ASN:OD1	2.62	0.43
1:A:238:ARG:HD2	1:A:683:GLU:OE2	2.19	0.43
1:A:340:VAL:O	1:A:340:VAL:HG23	2.19	0.43
1:A:526:HIS:HD2	1:A:527:LYS:O	2.01	0.43
1:B:222:GLY:C	1:B:223:ASN:OD1	2.62	0.43
1:B:254:ASN:O	1:B:255:HIS:HB2	2.18	0.43
1:C:281:TYR:CB	1:C:647:LEU:HD13	2.48	0.43
1:C:340:VAL:O	1:C:340:VAL:HG23	2.18	0.43
1:D:273:PHE:CD2	1:D:386:ALA:HB2	2.53	0.43
1:D:339:THR:CG2	1:D:404:ARG:HG3	2.49	0.43
1:E:428:GLN:HE22	1:Q:351:PRO:HB3	1.83	0.43
1:E:452:SER:OG	1:E:455:THR:O	2.31	0.43
1:H:323:VAL:HG12	1:H:330:THR:HG23	2.00	0.43
1:H:596:ASN:ND2	1:Y:581:THR:HG22	2.33	0.43
1:H:698:ILE:HD12	1:W:389:ARG:HG2	2.00	0.43
1:I:413:TYR:HE2	1:I:415:PHE:CG	2.36	0.43
1:I:580:SER:CA	1:I:592:THR:HG22	2.46	0.43
1:K:222:GLY:C	1:K:223:ASN:OD1	2.62	0.43
1:L:413:TYR:HE2	1:L:415:PHE:CG	2.36	0.43
1:M:339:THR:CG2	1:M:404:ARG:HG3	2.49	0.43
1:M:389:ARG:HG2	1:b:698:ILE:HD12	2.00	0.43
1:M:529:ASP:O	1:M:529:ASP:CG	2.62	0.43
1:N:222:GLY:C	1:N:223:ASN:OD1	2.62	0.43
1:N:526:HIS:HD2	1:N:527:LYS:O	2.01	0.43
1:O:339:THR:CG2	1:O:404:ARG:HG3	2.49	0.43
1:R:339:THR:CG2	1:R:404:ARG:HG3	2.49	0.43
1:R:340:VAL:O	1:R:340:VAL:HG23	2.18	0.43
1:S:339:THR:HB	1:S:403:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:596:ASN:ND2	1:l:581:THR:HG22	2.33	0.43
1:W:529:ASP:O	1:W:529:ASP:CG	2.62	0.43
1:X:238:ARG:HD2	1:X:683:GLU:OE2	2.19	0.43
1:X:339:THR:HB	1:X:403:LEU:O	2.18	0.43
1:X:529:ASP:O	1:X:529:ASP:CG	2.62	0.43
1:X:653:VAL:HA	1:X:654:PRO:HD3	1.90	0.43
1:Z:526:HIS:HD2	1:Z:527:LYS:O	2.01	0.43
1:a:254:ASN:O	1:a:255:HIS:HB2	2.18	0.43
1:b:323:VAL:HG12	1:b:330:THR:HG23	2.00	0.43
1:d:273:PHE:CD2	1:d:386:ALA:HB2	2.53	0.43
1:f:351:PRO:HB3	1:g:428:GLN:HE22	1.83	0.43
1:g:273:PHE:CD2	1:g:386:ALA:HB2	2.53	0.43
1:h:339:THR:CG2	1:h:404:ARG:HG3	2.49	0.43
1:h:529:ASP:O	1:h:529:ASP:CG	2.62	0.43
1:j:297:GLN:HE22	1:w:697:GLU:N	2.13	0.43
1:k:339:THR:CG2	1:k:404:ARG:HG3	2.49	0.43
1:k:413:TYR:HE2	1:k:415:PHE:CG	2.36	0.43
1:l:339:THR:CG2	1:l:404:ARG:HG3	2.49	0.43
1:o:322:GLU:HG3	1:o:335:ASN:HB2	2.01	0.43
1:p:526:HIS:HD2	1:p:527:LYS:O	2.01	0.43
1:p:689:GLU:C	1:p:689:GLU:CD	2.85	0.43
1:q:339:THR:CG2	1:q:404:ARG:HG3	2.49	0.43
1:q:413:TYR:HE2	1:q:415:PHE:CG	2.36	0.43
1:r:322:GLU:HG3	1:r:335:ASN:HB2	2.01	0.43
1:t:325:GLN:HG2	1:t:325:GLN:O	2.18	0.43
1:u:413:TYR:HE2	1:u:415:PHE:CG	2.36	0.43
1:v:222:GLY:C	1:v:223:ASN:OD1	2.62	0.43
1:v:322:GLU:HG3	1:v:335:ASN:HB2	2.01	0.43
1:v:340:VAL:O	1:v:340:VAL:HG23	2.19	0.43
1:w:238:ARG:HD2	1:w:683:GLU:OE2	2.19	0.43
1:x:222:GLY:C	1:x:223:ASN:OD1	2.62	0.43
1:y:254:ASN:O	1:y:255:HIS:HB2	2.18	0.43
1:y:413:TYR:HE2	1:y:415:PHE:CG	2.36	0.43
1:z:382:ASN:ND2	1:4:706:LYS:HD3	2.32	0.43
1:z:581:THR:HG22	1:1:596:ASN:ND2	2.33	0.43
1:1:254:ASN:O	1:1:255:HIS:HB2	2.18	0.43
1:2:314:LYS:CG	1:2:410:THR:HG22	2.46	0.43
1:3:339:THR:HB	1:3:403:LEU:O	2.18	0.43
1:3:339:THR:CG2	1:3:404:ARG:HG3	2.49	0.43
1:4:222:GLY:C	1:4:223:ASN:OD1	2.62	0.43
1:5:238:ARG:HD2	1:5:683:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:322:GLU:HG3	1:5:335:ASN:HB2	2.01	0.43
1:5:698:ILE:HD12	1:6:389:ARG:HG2	2.00	0.43
1:6:323:VAL:HG12	1:6:330:THR:HG23	2.00	0.43
1:8:242:THR:CG2	1:8:681:GLU:CG	2.81	0.43
1:A:298:ARG:NH2	1:F:689:GLU:OE2	2.44	0.43
1:A:322:GLU:HG3	1:A:335:ASN:HB2	2.01	0.43
1:A:529:ASP:O	1:A:529:ASP:CG	2.62	0.43
1:B:323:VAL:HG12	1:B:330:THR:HG23	2.00	0.43
1:B:389:ARG:HG2	1:L:698:ILE:HD12	2.00	0.43
1:C:273:PHE:CD2	1:C:386:ALA:HB2	2.53	0.43
1:D:238:ARG:HD2	1:D:683:GLU:OE2	2.19	0.43
1:D:413:TYR:HE2	1:D:415:PHE:CG	2.36	0.43
1:E:238:ARG:HD2	1:E:683:GLU:OE2	2.19	0.43
1:G:323:VAL:HG12	1:G:330:THR:HG23	2.00	0.43
1:G:325:GLN:HG2	1:G:325:GLN:O	2.18	0.43
1:G:449:ASN:HA	1:G:459:ARG:H	1.82	0.43
1:H:322:GLU:HG3	1:H:335:ASN:HB2	2.01	0.43
1:M:243:SER:HB2	1:M:245:ARG:HH12	1.84	0.43
1:N:243:SER:HB2	1:N:245:ARG:HH12	1.84	0.43
1:N:298:ARG:NH2	1:O:689:GLU:OE2	2.44	0.43
1:O:222:GLY:C	1:O:223:ASN:OD1	2.62	0.43
1:O:581:THR:HG22	1:m:596:ASN:ND2	2.33	0.43
1:Q:396:GLU:C	1:Q:398:PHE:N	2.76	0.43
1:R:222:GLY:C	1:R:223:ASN:OD1	2.62	0.43
1:S:281:TYR:CB	1:S:647:LEU:HD13	2.48	0.43
1:V:323:VAL:HG12	1:V:330:THR:HG23	2.00	0.43
1:V:526:HIS:HD2	1:V:527:LYS:O	2.01	0.43
1:W:222:GLY:C	1:W:223:ASN:OD1	2.62	0.43
1:W:323:VAL:HG12	1:W:330:THR:HG23	2.00	0.43
1:Y:243:SER:HB2	1:Y:245:ARG:HH12	1.84	0.43
1:Z:322:GLU:HG3	1:Z:335:ASN:HB2	2.01	0.43
1:Z:323:VAL:HG12	1:Z:330:THR:HG23	2.00	0.43
1:Z:389:ARG:HG2	1:3:698:ILE:HD12	2.00	0.43
1:a:325:GLN:HG2	1:a:325:GLN:O	2.18	0.43
1:a:340:VAL:HG23	1:a:340:VAL:O	2.19	0.43
1:a:698:ILE:HD12	1:8:389:ARG:HG2	2.00	0.43
1:d:222:GLY:C	1:d:223:ASN:OD1	2.62	0.43
1:e:273:PHE:CD2	1:e:386:ALA:HB2	2.53	0.43
1:h:243:SER:HB2	1:h:245:ARG:HH12	1.84	0.43
1:i:298:ARG:NH2	1:l:689:GLU:OE2	2.44	0.43
1:i:339:THR:CG2	1:i:404:ARG:HG3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:238:ARG:HD2	1:k:683:GLU:OE2	2.19	0.43
1:k:354:LEU:HA	1:k:354:LEU:HD23	1.61	0.43
1:l:222:GLY:C	1:l:223:ASN:OD1	2.62	0.43
1:m:428:GLN:HE22	1:n:351:PRO:HB3	1.83	0.43
1:n:273:PHE:CD2	1:n:386:ALA:HB2	2.53	0.43
1:o:238:ARG:HD2	1:o:683:GLU:OE2	2.19	0.43
1:p:238:ARG:HD2	1:p:683:GLU:OE2	2.19	0.43
1:p:339:THR:CG2	1:p:404:ARG:HG3	2.49	0.43
1:q:222:GLY:C	1:q:223:ASN:OD1	2.62	0.43
1:r:222:GLY:C	1:r:223:ASN:OD1	2.62	0.43
1:r:339:THR:HB	1:r:403:LEU:O	2.18	0.43
1:t:449:ASN:HA	1:t:459:ARG:H	1.82	0.43
1:v:238:ARG:HD2	1:v:683:GLU:OE2	2.19	0.43
1:v:243:SER:HB2	1:v:245:ARG:HH12	1.84	0.43
1:v:323:VAL:CG1	1:v:330:THR:CG2	2.96	0.43
1:v:529:ASP:O	1:v:529:ASP:CG	2.62	0.43
1:w:351:PRO:HB3	1:y:428:GLN:HE22	1.83	0.43
1:w:413:TYR:HE2	1:w:415:PHE:CG	2.36	0.43
1:z:413:TYR:HE2	1:z:415:PHE:CG	2.36	0.43
1:z:526:HIS:HD2	1:z:527:LYS:O	2.01	0.43
1:z:698:ILE:HD12	1:1:389:ARG:HG2	2.00	0.43
1:1:222:GLY:C	1:1:223:ASN:OD1	2.62	0.43
1:3:254:ASN:O	1:3:255:HIS:HB2	2.18	0.43
1:3:340:VAL:HG23	1:3:340:VAL:O	2.19	0.43
1:4:254:ASN:O	1:4:255:HIS:HB2	2.18	0.43
1:6:222:GLY:C	1:6:223:ASN:OD1	2.62	0.43
1:A:243:SER:HB2	1:A:245:ARG:HH12	1.84	0.42
1:C:428:GLN:HE22	1:b:351:PRO:HB3	1.83	0.42
1:F:238:ARG:HD2	1:F:683:GLU:OE2	2.19	0.42
1:G:222:GLY:C	1:G:223:ASN:OD1	2.62	0.42
1:I:238:ARG:HD2	1:I:683:GLU:OE2	2.19	0.42
1:I:701:THR:O	1:I:701:THR:HG23	2.19	0.42
1:J:339:THR:CG2	1:J:404:ARG:HG3	2.49	0.42
1:K:254:ASN:O	1:K:255:HIS:HB2	2.18	0.42
1:K:389:ARG:HG2	1:8:698:ILE:HD12	2.00	0.42
1:N:339:THR:CG2	1:N:404:ARG:HG3	2.49	0.42
1:Q:529:ASP:O	1:Q:529:ASP:CG	2.62	0.42
1:S:222:GLY:C	1:S:223:ASN:OD1	2.62	0.42
1:V:238:ARG:HD2	1:V:683:GLU:OE2	2.19	0.42
1:V:339:THR:CG2	1:V:404:ARG:HG3	2.49	0.42
1:X:273:PHE:CD2	1:X:386:ALA:HB2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:396:GLU:C	1:Y:398:PHE:N	2.76	0.42
1:Z:698:ILE:HD12	1:4:389:ARG:HG2	2.00	0.42
1:a:289:CYS:SG	1:a:362:LEU:O	2.70	0.42
1:c:273:PHE:CD2	1:c:386:ALA:HB2	2.53	0.42
1:f:323:VAL:HG12	1:f:330:THR:HG23	2.00	0.42
1:g:281:TYR:CB	1:g:647:LEU:HD13	2.48	0.42
1:h:701:THR:O	1:h:701:THR:HG23	2.19	0.42
1:j:339:THR:CG2	1:j:404:ARG:HG3	2.49	0.42
1:j:428:GLN:HE22	1:k:351:PRO:HB3	1.83	0.42
1:m:340:VAL:O	1:m:340:VAL:HG23	2.18	0.42
1:n:222:GLY:C	1:n:223:ASN:OD1	2.62	0.42
1:n:508:TYR:CD1	1:n:517:VAL:HG22	2.50	0.42
1:o:340:VAL:O	1:o:340:VAL:HG23	2.18	0.42
1:t:222:GLY:C	1:t:223:ASN:OD1	2.62	0.42
1:t:323:VAL:HG12	1:t:330:THR:HG23	2.00	0.42
1:u:526:HIS:HD2	1:u:527:LYS:O	2.01	0.42
1:w:340:VAL:O	1:w:340:VAL:HG23	2.18	0.42
1:x:529:ASP:O	1:x:529:ASP:CG	2.62	0.42
1:y:238:ARG:HD2	1:y:683:GLU:OE2	2.19	0.42
1:z:529:ASP:O	1:z:529:ASP:CG	2.62	0.42
1:1:323:VAL:HG12	1:1:330:THR:HG23	2.00	0.42
1:1:526:HIS:HD2	1:1:527:LYS:O	2.01	0.42
1:2:243:SER:HB2	1:2:245:ARG:HH12	1.84	0.42
1:2:322:GLU:HG3	1:2:335:ASN:HB2	2.01	0.42
1:2:339:THR:CG2	1:2:404:ARG:HG3	2.49	0.42
1:3:325:GLN:O	1:3:325:GLN:HG2	2.18	0.42
1:5:596:ASN:ND2	1:7:581:THR:HG22	2.33	0.42
1:6:526:HIS:HD2	1:6:527:LYS:O	2.01	0.42
1:7:243:SER:HB2	1:7:245:ARG:HH12	1.84	0.42
1:7:452:SER:OG	1:7:455:THR:O	2.31	0.42
1:8:322:GLU:HG3	1:8:335:ASN:HB2	2.01	0.42
1:B:526:HIS:HD2	1:B:527:LYS:O	2.01	0.42
1:E:243:SER:HB2	1:E:245:ARG:HH12	1.84	0.42
1:E:340:VAL:O	1:E:340:VAL:HG23	2.18	0.42
1:E:698:ILE:HD12	1:Q:389:ARG:HG2	2.00	0.42
1:G:235:MET:HE2	1:G:235:MET:HB3	1.74	0.42
1:G:238:ARG:HD2	1:G:683:GLU:OE2	2.19	0.42
1:H:243:SER:HB2	1:H:245:ARG:HH12	1.84	0.42
1:I:526:HIS:HD2	1:I:527:LYS:O	2.01	0.42
1:J:322:GLU:HG3	1:J:335:ASN:HB2	2.01	0.42
1:K:325:GLN:O	1:K:325:GLN:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:396:GLU:C	1:K:398:PHE:N	2.76	0.42
1:K:553:ASP:CG	1:K:554:ILE:N	2.78	0.42
1:M:701:THR:O	1:M:701:THR:HG23	2.19	0.42
1:N:553:ASP:CG	1:N:554:ILE:N	2.78	0.42
1:O:322:GLU:HG3	1:O:335:ASN:HB2	2.01	0.42
1:O:529:ASP:O	1:O:529:ASP:CG	2.62	0.42
1:P:222:GLY:C	1:P:223:ASN:OD1	2.62	0.42
1:P:314:LYS:CG	1:P:410:THR:HG22	2.46	0.42
1:P:339:THR:CG2	1:P:404:ARG:HG3	2.49	0.42
1:Q:553:ASP:CG	1:Q:554:ILE:N	2.78	0.42
1:R:701:THR:O	1:R:701:THR:HG23	2.19	0.42
1:S:314:LYS:HG2	1:S:410:THR:CG2	2.46	0.42
1:U:396:GLU:C	1:U:398:PHE:N	2.76	0.42
1:U:526:HIS:HD2	1:U:527:LYS:O	2.01	0.42
1:V:273:PHE:CD2	1:V:386:ALA:HB2	2.53	0.42
1:W:553:ASP:CG	1:W:554:ILE:N	2.78	0.42
1:X:340:VAL:O	1:X:340:VAL:HG23	2.18	0.42
1:X:553:ASP:CG	1:X:554:ILE:N	2.78	0.42
1:Y:281:TYR:CB	1:Y:647:LEU:HD13	2.48	0.42
1:a:222:GLY:C	1:a:223:ASN:OD1	2.62	0.42
1:a:243:SER:HB2	1:a:245:ARG:HH12	1.84	0.42
1:a:553:ASP:CG	1:a:554:ILE:N	2.78	0.42
1:b:322:GLU:HG3	1:b:335:ASN:HB2	2.01	0.42
1:b:553:ASP:CG	1:b:554:ILE:N	2.78	0.42
1:c:701:THR:O	1:c:701:THR:HG23	2.19	0.42
1:d:413:TYR:HE2	1:d:415:PHE:CG	2.36	0.42
1:e:701:THR:O	1:e:701:THR:HG23	2.19	0.42
1:f:238:ARG:HD2	1:f:683:GLU:OE2	2.19	0.42
1:f:322:GLU:HG3	1:f:335:ASN:HB2	2.01	0.42
1:i:553:ASP:CG	1:i:554:ILE:N	2.78	0.42
1:j:222:GLY:C	1:j:223:ASN:OD1	2.62	0.42
1:l:273:PHE:CD2	1:l:386:ALA:HB2	2.53	0.42
1:l:322:GLU:HG3	1:l:335:ASN:HB2	2.01	0.42
1:m:322:GLU:HG3	1:m:335:ASN:HB2	2.01	0.42
1:o:553:ASP:CG	1:o:554:ILE:N	2.78	0.42
1:p:323:VAL:HG12	1:p:330:THR:HG23	2.00	0.42
1:p:340:VAL:O	1:p:340:VAL:HG23	2.18	0.42
1:p:529:ASP:O	1:p:529:ASP:CG	2.62	0.42
1:q:701:THR:O	1:q:701:THR:HG23	2.19	0.42
1:r:273:PHE:CD2	1:r:386:ALA:HB2	2.53	0.42
1:u:238:ARG:HD2	1:u:683:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:580:SER:CA	1:u:592:THR:HG22	2.46	0.42
1:u:701:THR:O	1:u:701:THR:HG23	2.19	0.42
1:v:339:THR:CG2	1:v:404:ARG:HG3	2.49	0.42
1:w:698:ILE:HD12	1:x:389:ARG:HG2	2.00	0.42
1:x:273:PHE:CD2	1:x:386:ALA:HB2	2.53	0.42
1:x:553:ASP:CG	1:x:554:ILE:N	2.78	0.42
1:z:701:THR:O	1:z:701:THR:HG23	2.19	0.42
1:3:243:SER:HB2	1:3:245:ARG:HH12	1.84	0.42
1:3:289:CYS:SG	1:3:362:LEU:O	2.70	0.42
1:3:553:ASP:CG	1:3:554:ILE:N	2.78	0.42
1:3:653:VAL:HA	1:3:654:PRO:HD3	1.90	0.42
1:5:243:SER:HB2	1:5:245:ARG:HH12	1.84	0.42
1:6:553:ASP:CG	1:6:554:ILE:N	2.78	0.42
1:7:281:TYR:CB	1:7:647:LEU:HD13	2.48	0.42
1:A:339:THR:CG2	1:A:404:ARG:HG3	2.49	0.42
1:B:238:ARG:HD2	1:B:683:GLU:OE2	2.19	0.42
1:B:281:TYR:CB	1:B:647:LEU:HD13	2.48	0.42
1:D:351:PRO:HB3	1:P:428:GLN:HE22	1.83	0.42
1:E:553:ASP:CG	1:E:554:ILE:N	2.78	0.42
1:F:314:LYS:CG	1:F:410:THR:HG22	2.46	0.42
1:H:340:VAL:O	1:H:340:VAL:HG23	2.19	0.42
1:J:238:ARG:HD2	1:J:683:GLU:OE2	2.19	0.42
1:J:243:SER:HB2	1:J:245:ARG:HH12	1.84	0.42
1:J:697:GLU:N	1:K:297:GLN:HE22	2.13	0.42
1:K:612:TYR:CE1	1:K:727:GLY:CA	3.03	0.42
1:L:247:TRP:HZ2	1:L:318:ILE:CD1	2.33	0.42
1:L:701:THR:O	1:L:701:THR:HG23	2.19	0.42
1:M:235:MET:HE2	1:M:235:MET:HB3	1.74	0.42
1:M:340:VAL:HG23	1:M:340:VAL:O	2.18	0.42
1:M:612:TYR:CE1	1:M:727:GLY:CA	3.03	0.42
1:O:273:PHE:CD2	1:O:386:ALA:HB2	2.53	0.42
1:P:247:TRP:HZ2	1:P:318:ILE:CD1	2.33	0.42
1:Q:273:PHE:CD2	1:Q:386:ALA:HB2	2.53	0.42
1:S:243:SER:HB2	1:S:245:ARG:HH12	1.84	0.42
1:T:322:GLU:HG3	1:T:335:ASN:HB2	2.01	0.42
1:T:340:VAL:O	1:T:340:VAL:HG23	2.18	0.42
1:T:526:HIS:HD2	1:T:527:LYS:O	2.01	0.42
1:V:247:TRP:HZ2	1:V:318:ILE:CD1	2.33	0.42
1:V:340:VAL:O	1:V:340:VAL:HG23	2.18	0.42
1:V:413:TYR:HE2	1:V:415:PHE:CG	2.36	0.42
1:W:235:MET:HE2	1:W:235:MET:HB3	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:526:HIS:HD2	1:W:527:LYS:O	2.01	0.42
1:Z:247:TRP:HZ2	1:Z:318:ILE:CD1	2.33	0.42
1:a:354:LEU:HA	1:a:354:LEU:HD23	1.61	0.42
1:a:396:GLU:C	1:a:398:PHE:N	2.76	0.42
1:b:238:ARG:HD2	1:b:683:GLU:OE2	2.19	0.42
1:b:254:ASN:O	1:b:255:HIS:HB2	2.18	0.42
1:f:553:ASP:CG	1:f:554:ILE:N	2.78	0.42
1:i:242:THR:CG2	1:i:681:GLU:CG	2.81	0.42
1:j:247:TRP:HZ2	1:j:318:ILE:CD1	2.33	0.42
1:k:222:GLY:C	1:k:223:ASN:OD1	2.62	0.42
1:k:243:SER:HB2	1:k:245:ARG:HH12	1.84	0.42
1:k:325:GLN:O	1:k:325:GLN:HG2	2.18	0.42
1:m:222:GLY:C	1:m:223:ASN:OD1	2.62	0.42
1:n:413:TYR:HE2	1:n:415:PHE:CG	2.36	0.42
1:o:416:GLU:H	1:o:416:GLU:HG2	1.67	0.42
1:p:247:TRP:HZ2	1:p:318:ILE:CD1	2.33	0.42
1:p:273:PHE:CD2	1:p:386:ALA:HB2	2.53	0.42
1:q:247:TRP:HZ2	1:q:318:ILE:CD1	2.33	0.42
1:r:243:SER:HB2	1:r:245:ARG:HH12	1.84	0.42
1:s:238:ARG:HD2	1:s:683:GLU:OE2	2.19	0.42
1:s:396:GLU:C	1:s:398:PHE:N	2.76	0.42
1:t:238:ARG:HD2	1:t:683:GLU:OE2	2.19	0.42
1:x:396:GLU:C	1:x:398:PHE:N	2.76	0.42
1:2:340:VAL:O	1:2:340:VAL:HG23	2.18	0.42
1:3:222:GLY:C	1:3:223:ASN:OD1	2.62	0.42
1:3:396:GLU:C	1:3:398:PHE:N	2.76	0.42
1:4:612:TYR:CE1	1:4:727:GLY:CA	3.03	0.42
1:5:340:VAL:O	1:5:340:VAL:HG23	2.19	0.42
1:7:396:GLU:C	1:7:398:PHE:N	2.76	0.42
1:8:222:GLY:C	1:8:223:ASN:OD1	2.62	0.42
1:8:247:TRP:HZ2	1:8:318:ILE:CD1	2.33	0.42
1:8:340:VAL:O	1:8:340:VAL:HG23	2.18	0.42
1:A:396:GLU:C	1:A:398:PHE:N	2.76	0.42
1:B:396:GLU:C	1:B:398:PHE:N	2.76	0.42
1:B:701:THR:O	1:B:701:THR:HG23	2.19	0.42
1:D:325:GLN:HG2	1:D:325:GLN:O	2.18	0.42
1:E:526:HIS:HD2	1:E:527:LYS:O	2.01	0.42
1:G:254:ASN:O	1:G:255:HIS:HB2	2.18	0.42
1:I:612:TYR:CE1	1:I:727:GLY:CA	3.03	0.42
1:J:314:LYS:HG2	1:J:410:THR:CG2	2.46	0.42
1:J:340:VAL:O	1:J:340:VAL:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:529:ASP:O	1:J:529:ASP:CG	2.62	0.42
1:K:243:SER:HB2	1:K:245:ARG:HH12	1.84	0.42
1:K:526:HIS:HD2	1:K:527:LYS:O	2.01	0.42
1:L:612:TYR:CE1	1:L:727:GLY:CA	3.03	0.42
1:M:322:GLU:HG3	1:M:335:ASN:HB2	2.01	0.42
1:M:326:ASN:HD22	1:c:329:THR:HB	1.85	0.42
1:O:351:PRO:HB3	1:n:428:GLN:HE22	1.83	0.42
1:O:612:TYR:CE1	1:O:727:GLY:CA	3.03	0.42
1:P:612:TYR:CE1	1:P:727:GLY:CA	3.03	0.42
1:Q:612:TYR:CE1	1:Q:727:GLY:CA	3.03	0.42
1:R:247:TRP:HZ2	1:R:318:ILE:CD1	2.33	0.42
1:S:273:PHE:CD2	1:S:386:ALA:HB2	2.53	0.42
1:S:339:THR:CG2	1:S:404:ARG:HG3	2.49	0.42
1:T:222:GLY:C	1:T:223:ASN:OD1	2.62	0.42
1:U:238:ARG:HD2	1:U:683:GLU:OE2	2.19	0.42
1:U:553:ASP:CG	1:U:554:ILE:N	2.78	0.42
1:V:529:ASP:O	1:V:529:ASP:CG	2.62	0.42
1:V:612:TYR:CE1	1:V:727:GLY:CA	3.03	0.42
1:X:609:ARG:HH21	1:X:609:ARG:CG	2.26	0.42
1:Y:452:SER:OG	1:Y:455:THR:O	2.31	0.42
1:Z:222:GLY:C	1:Z:223:ASN:OD1	2.62	0.42
1:Z:354:LEU:HA	1:Z:354:LEU:HD23	1.61	0.42
1:Z:612:TYR:CE1	1:Z:727:GLY:CA	3.03	0.42
1:a:612:TYR:CE1	1:a:727:GLY:CA	3.03	0.42
1:d:281:TYR:CB	1:d:647:LEU:HD13	2.48	0.42
1:e:329:THR:HB	1:h:326:ASN:HD22	1.85	0.42
1:g:238:ARG:HD2	1:g:683:GLU:OE2	2.19	0.42
1:h:612:TYR:CE1	1:h:727:GLY:CA	3.03	0.42
1:j:322:GLU:HG3	1:j:335:ASN:HB2	2.01	0.42
1:j:529:ASP:O	1:j:529:ASP:CG	2.62	0.42
1:j:612:TYR:CE1	1:j:727:GLY:CA	3.03	0.42
1:l:529:ASP:O	1:l:529:ASP:CG	2.62	0.42
1:l:612:TYR:CE1	1:l:727:GLY:CA	3.03	0.42
1:n:553:ASP:CG	1:n:554:ILE:N	2.78	0.42
1:o:254:ASN:O	1:o:255:HIS:HB2	2.18	0.42
1:o:273:PHE:CD2	1:o:386:ALA:HB2	2.53	0.42
1:o:609:ARG:HH21	1:o:609:ARG:CG	2.26	0.42
1:p:254:ASN:O	1:p:255:HIS:HB2	2.18	0.42
1:p:314:LYS:HG2	1:p:410:THR:CG2	2.46	0.42
1:p:612:TYR:CE1	1:p:727:GLY:CA	3.03	0.42
1:r:254:ASN:O	1:r:255:HIS:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:314:LYS:HG2	1:r:410:THR:CG2	2.46	0.42
1:s:322:GLU:HG3	1:s:335:ASN:HB2	2.01	0.42
1:s:526:HIS:HD2	1:s:527:LYS:O	2.01	0.42
1:t:609:ARG:HH21	1:t:609:ARG:CG	2.26	0.42
1:u:254:ASN:O	1:u:255:HIS:HB2	2.18	0.42
1:u:612:TYR:CE1	1:u:727:GLY:CA	3.03	0.42
1:v:254:ASN:O	1:v:255:HIS:HB2	2.18	0.42
1:w:243:SER:HB2	1:w:245:ARG:HH12	1.84	0.42
1:w:553:ASP:CG	1:w:554:ILE:N	2.78	0.42
1:y:340:VAL:HG23	1:y:340:VAL:O	2.19	0.42
1:z:247:TRP:HZ2	1:z:318:ILE:CD1	2.33	0.42
1:1:238:ARG:HD2	1:1:683:GLU:OE2	2.19	0.42
1:1:243:SER:HB2	1:1:245:ARG:HH12	1.84	0.42
1:1:322:GLU:HG3	1:1:335:ASN:HB2	2.01	0.42
1:1:396:GLU:C	1:1:398:PHE:N	2.76	0.42
1:2:238:ARG:HD2	1:2:683:GLU:OE2	2.19	0.42
1:2:254:ASN:O	1:2:255:HIS:HB2	2.18	0.42
1:2:529:ASP:O	1:2:529:ASP:CG	2.62	0.42
1:3:273:PHE:CD2	1:3:386:ALA:HB2	2.53	0.42
1:3:612:TYR:CE1	1:3:727:GLY:CA	3.03	0.42
1:4:247:TRP:HZ2	1:4:318:ILE:CD1	2.33	0.42
1:4:325:GLN:HG2	1:4:325:GLN:O	2.18	0.42
1:4:526:HIS:HD2	1:4:527:LYS:O	2.01	0.42
1:A:254:ASN:O	1:A:255:HIS:HB2	2.18	0.42
1:B:322:GLU:HG3	1:B:335:ASN:HB2	2.01	0.42
1:C:238:ARG:HD2	1:C:683:GLU:OE2	2.19	0.42
1:C:698:ILE:HD12	1:b:389:ARG:HG2	2.00	0.42
1:D:222:GLY:C	1:D:223:ASN:OD1	2.62	0.42
1:D:243:SER:HB2	1:D:245:ARG:HH12	1.84	0.42
1:D:322:GLU:HG3	1:D:335:ASN:HB2	2.01	0.42
1:D:698:ILE:HD12	1:N:389:ARG:HG2	2.00	0.42
1:G:243:SER:HB2	1:G:245:ARG:HH12	1.84	0.42
1:H:339:THR:CG2	1:H:404:ARG:HG3	2.49	0.42
1:I:254:ASN:O	1:I:255:HIS:HB2	2.18	0.42
1:I:553:ASP:CG	1:I:554:ILE:N	2.78	0.42
1:J:247:TRP:HZ2	1:J:318:ILE:CD1	2.33	0.42
1:J:254:ASN:O	1:J:255:HIS:HB2	2.18	0.42
1:K:238:ARG:HD2	1:K:683:GLU:OE2	2.19	0.42
1:K:247:TRP:HZ2	1:K:318:ILE:CD1	2.33	0.42
1:K:339:THR:CG2	1:K:404:ARG:HG3	2.49	0.42
1:L:329:THR:HB	1:b:326:ASN:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:553:ASP:CG	1:L:554:ILE:N	2.78	0.42
1:M:254:ASN:O	1:M:255:HIS:HB2	2.18	0.42
1:N:340:VAL:HG23	1:N:340:VAL:O	2.19	0.42
1:O:281:TYR:CB	1:O:647:LEU:HD13	2.48	0.42
1:P:322:GLU:HG3	1:P:335:ASN:HB2	2.01	0.42
1:P:529:ASP:O	1:P:529:ASP:CG	2.62	0.42
1:R:238:ARG:HD2	1:R:683:GLU:OE2	2.19	0.42
1:S:222:GLY:O	1:d:405:THR:O	2.38	0.42
1:T:529:ASP:O	1:T:529:ASP:CG	2.62	0.42
1:T:553:ASP:CG	1:T:554:ILE:N	2.78	0.42
1:U:322:GLU:HG3	1:U:335:ASN:HB2	2.01	0.42
1:V:396:GLU:C	1:V:398:PHE:N	2.76	0.42
1:W:247:TRP:HZ2	1:W:318:ILE:CD1	2.33	0.42
1:W:698:ILE:HD12	1:Y:389:ARG:HG2	2.00	0.42
1:X:254:ASN:O	1:X:255:HIS:HB2	2.18	0.42
1:X:389:ARG:HG2	1:e:698:ILE:HD12	2.00	0.42
1:Z:340:VAL:HG23	1:Z:340:VAL:O	2.18	0.42
1:a:273:PHE:CD2	1:a:386:ALA:HB2	2.53	0.42
1:c:698:ILE:HD12	1:o:389:ARG:HG2	2.00	0.42
1:d:339:THR:HG22	1:d:404:ARG:HG2	2.02	0.42
1:d:553:ASP:CG	1:d:554:ILE:N	2.78	0.42
1:f:254:ASN:O	1:f:255:HIS:HB2	2.18	0.42
1:f:326:ASN:HD22	1:z:329:THR:HB	1.85	0.42
1:f:389:ARG:HG2	1:g:698:ILE:HD12	2.00	0.42
1:g:701:THR:O	1:g:701:THR:HG23	2.19	0.42
1:h:322:GLU:HG3	1:h:335:ASN:HB2	2.01	0.42
1:h:340:VAL:HG23	1:h:340:VAL:O	2.18	0.42
1:i:247:TRP:HZ2	1:i:318:ILE:CD1	2.33	0.42
1:i:529:ASP:O	1:i:529:ASP:CG	2.62	0.42
1:j:314:LYS:CG	1:j:410:THR:HG22	2.46	0.42
1:k:340:VAL:O	1:k:340:VAL:HG23	2.19	0.42
1:m:526:HIS:HD2	1:m:527:LYS:O	2.01	0.42
1:m:553:ASP:CG	1:m:554:ILE:N	2.78	0.42
1:n:281:TYR:CB	1:n:647:LEU:HD13	2.48	0.42
1:n:339:THR:HG22	1:n:404:ARG:HG2	2.02	0.42
1:n:340:VAL:O	1:n:340:VAL:HG23	2.19	0.42
1:p:413:TYR:HE2	1:p:415:PHE:CG	2.36	0.42
1:q:314:LYS:HG2	1:q:410:THR:CG2	2.46	0.42
1:q:452:SER:OG	1:q:455:THR:O	2.31	0.42
1:r:339:THR:CG2	1:r:404:ARG:HG3	2.49	0.42
1:r:701:THR:O	1:r:701:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:529:ASP:O	1:s:529:ASP:CG	2.62	0.42
1:s:553:ASP:CG	1:s:554:ILE:N	2.78	0.42
1:t:254:ASN:O	1:t:255:HIS:HB2	2.18	0.42
1:u:322:GLU:HG3	1:u:335:ASN:HB2	2.01	0.42
1:v:396:GLU:C	1:v:398:PHE:N	2.76	0.42
1:w:526:HIS:HD2	1:w:527:LYS:O	2.01	0.42
1:x:612:TYR:CE1	1:x:727:GLY:CA	3.03	0.42
1:y:314:LYS:CG	1:y:410:THR:HG22	2.46	0.42
1:y:701:THR:O	1:y:701:THR:HG23	2.19	0.42
1:z:553:ASP:CG	1:z:554:ILE:N	2.78	0.42
1:z:612:TYR:CE1	1:z:727:GLY:CA	3.03	0.42
1:1:281:TYR:CB	1:1:647:LEU:HD13	2.48	0.42
1:1:701:THR:O	1:1:701:THR:HG23	2.19	0.42
1:2:247:TRP:HZ2	1:2:318:ILE:CD1	2.33	0.42
1:2:247:TRP:HB3	1:2:370:PHE:CE2	2.55	0.42
1:2:612:TYR:CE1	1:2:727:GLY:CA	3.03	0.42
1:3:529:ASP:O	1:3:529:ASP:CG	2.62	0.42
1:4:238:ARG:HD2	1:4:683:GLU:OE2	2.19	0.42
1:4:243:SER:HB2	1:4:245:ARG:HH12	1.84	0.42
1:4:339:THR:CG2	1:4:404:ARG:HG3	2.49	0.42
1:4:396:GLU:C	1:4:398:PHE:N	2.76	0.42
1:6:247:TRP:HZ2	1:6:318:ILE:CD1	2.33	0.42
1:6:698:ILE:HD12	1:7:389:ARG:HG2	2.00	0.42
1:6:701:THR:O	1:6:701:THR:HG23	2.19	0.42
1:8:238:ARG:HD2	1:8:683:GLU:OE2	2.19	0.42
1:8:612:TYR:CE1	1:8:727:GLY:CA	3.03	0.42
1:B:243:SER:HB2	1:B:245:ARG:HH12	1.84	0.42
1:B:529:ASP:O	1:B:529:ASP:CG	2.62	0.42
1:C:405:THR:O	1:D:222:GLY:O	2.38	0.42
1:C:701:THR:O	1:C:701:THR:HG23	2.19	0.42
1:D:247:TRP:HB3	1:D:370:PHE:CE2	2.55	0.42
1:D:247:TRP:HZ2	1:D:318:ILE:CD1	2.33	0.42
1:D:339:THR:HG22	1:D:404:ARG:HG2	2.02	0.42
1:D:340:VAL:HG23	1:D:340:VAL:O	2.19	0.42
1:D:354:LEU:HA	1:D:354:LEU:HD23	1.61	0.42
1:D:529:ASP:O	1:D:529:ASP:CG	2.62	0.42
1:D:553:ASP:CG	1:D:554:ILE:N	2.78	0.42
1:D:612:TYR:CE1	1:D:727:GLY:CA	3.03	0.42
1:F:340:VAL:HG23	1:F:340:VAL:O	2.19	0.42
1:F:701:THR:O	1:F:701:THR:HG23	2.19	0.42
1:G:247:TRP:HB3	1:G:370:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:701:THR:O	1:H:701:THR:HG23	2.19	0.42
1:I:322:GLU:HG3	1:I:335:ASN:HB2	2.01	0.42
1:J:247:TRP:HB3	1:J:370:PHE:CE2	2.55	0.42
1:J:396:GLU:C	1:J:398:PHE:N	2.76	0.42
1:J:612:TYR:CE1	1:J:727:GLY:CA	3.03	0.42
1:K:247:TRP:HB3	1:K:370:PHE:CE2	2.55	0.42
1:K:405:THR:O	1:7:222:GLY:O	2.38	0.42
1:L:247:TRP:HB3	1:L:370:PHE:CE2	2.55	0.42
1:N:242:THR:CG2	1:N:681:GLU:CG	2.81	0.42
1:N:247:TRP:HZ2	1:N:318:ILE:CD1	2.33	0.42
1:O:340:VAL:O	1:O:340:VAL:HG23	2.18	0.42
1:P:247:TRP:HB3	1:P:370:PHE:CE2	2.55	0.42
1:Q:238:ARG:HD2	1:Q:683:GLU:OE2	2.19	0.42
1:S:254:ASN:O	1:S:255:HIS:HB2	2.18	0.42
1:S:701:THR:O	1:S:701:THR:HG23	2.19	0.42
1:T:238:ARG:HD2	1:T:683:GLU:OE2	2.19	0.42
1:T:247:TRP:HZ2	1:T:318:ILE:CD1	2.33	0.42
1:T:701:THR:O	1:T:701:THR:HG23	2.19	0.42
1:U:529:ASP:O	1:U:529:ASP:CG	2.62	0.42
1:V:254:ASN:O	1:V:255:HIS:HB2	2.18	0.42
1:V:553:ASP:CG	1:V:554:ILE:N	2.78	0.42
1:W:339:THR:CG2	1:W:404:ARG:HG3	2.49	0.42
1:W:396:GLU:C	1:W:398:PHE:N	2.76	0.42
1:W:701:THR:O	1:W:701:THR:HG23	2.19	0.42
1:X:222:GLY:O	1:Y:405:THR:O	2.37	0.42
1:Y:222:GLY:O	1:4:405:THR:O	2.38	0.42
1:Z:238:ARG:HD2	1:Z:683:GLU:OE2	2.19	0.42
1:a:701:THR:O	1:a:701:THR:HG23	2.19	0.42
1:c:322:GLU:HG3	1:c:335:ASN:HB2	2.01	0.42
1:c:405:THR:O	1:s:222:GLY:O	2.38	0.42
1:c:612:TYR:CE1	1:c:727:GLY:CA	3.03	0.42
1:d:340:VAL:O	1:d:340:VAL:HG23	2.19	0.42
1:d:428:GLN:HE22	1:l:351:PRO:HB3	1.83	0.42
1:e:612:TYR:CE1	1:e:727:GLY:CA	3.03	0.42
1:g:405:THR:O	1:k:222:GLY:O	2.38	0.42
1:h:254:ASN:O	1:h:255:HIS:HB2	2.18	0.42
1:i:281:TYR:CB	1:i:647:LEU:HD13	2.48	0.42
1:i:340:VAL:HG23	1:i:340:VAL:O	2.19	0.42
1:i:389:ARG:HG2	1:k:698:ILE:HD12	2.00	0.42
1:i:701:THR:O	1:i:701:THR:HG23	2.19	0.42
1:k:247:TRP:HB3	1:k:370:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:326:ASN:HD22	1:w:329:THR:HB	1.85	0.42
1:k:339:THR:HG22	1:k:404:ARG:HG2	2.02	0.42
1:k:612:TYR:CE1	1:k:727:GLY:CA	3.03	0.42
1:l:340:VAL:O	1:l:340:VAL:HG23	2.18	0.42
1:m:247:TRP:HZ2	1:m:318:ILE:CD1	2.33	0.42
1:m:529:ASP:O	1:m:529:ASP:CG	2.62	0.42
1:n:405:THR:O	1:r:222:GLY:O	2.38	0.42
1:n:529:ASP:O	1:n:529:ASP:CG	2.62	0.42
1:o:222:GLY:O	1:7:405:THR:O	2.37	0.42
1:q:238:ARG:HD2	1:q:683:GLU:OE2	2.19	0.42
1:r:526:HIS:HD2	1:r:527:LYS:O	2.01	0.42
1:u:553:ASP:CG	1:u:554:ILE:N	2.78	0.42
1:v:339:THR:HG22	1:v:404:ARG:HG2	2.02	0.42
1:y:247:TRP:HZ2	1:y:318:ILE:CD1	2.33	0.42
1:z:247:TRP:HB3	1:z:370:PHE:CE2	2.55	0.42
1:z:389:ARG:HG2	1:2:698:ILE:HD12	2.00	0.42
1:1:247:TRP:HZ2	1:1:318:ILE:CD1	2.33	0.42
1:1:529:ASP:O	1:1:529:ASP:CG	2.62	0.42
1:2:396:GLU:C	1:2:398:PHE:N	2.76	0.42
1:2:697:GLU:N	1:4:297:GLN:HE22	2.13	0.42
1:4:247:TRP:HB3	1:4:370:PHE:CE2	2.55	0.42
1:5:242:THR:CG2	1:5:681:GLU:CG	2.81	0.42
1:5:339:THR:CG2	1:5:404:ARG:HG3	2.49	0.42
1:5:701:THR:O	1:5:701:THR:HG23	2.19	0.42
1:6:396:GLU:C	1:6:398:PHE:N	2.76	0.42
1:A:339:THR:HG22	1:A:404:ARG:HG2	2.02	0.42
1:A:612:TYR:CE1	1:A:727:GLY:CA	3.03	0.42
1:B:247:TRP:HZ2	1:B:318:ILE:CD1	2.33	0.42
1:B:326:ASN:HD22	1:C:329:THR:HB	1.85	0.42
1:D:326:ASN:HD22	1:E:329:THR:HB	1.85	0.42
1:E:322:GLU:HG3	1:E:335:ASN:HB2	2.01	0.42
1:F:247:TRP:HZ2	1:F:318:ILE:CD1	2.33	0.42
1:F:565:ILE:CG2	1:F:729:ARG:NH1	2.83	0.42
1:G:247:TRP:HZ2	1:G:318:ILE:CD1	2.33	0.42
1:H:416:GLU:H	1:H:416:GLU:HG2	1.67	0.42
1:I:247:TRP:HB3	1:I:370:PHE:CE2	2.55	0.42
1:I:319:GLN:OE1	1:I:675:THR:HG23	2.20	0.42
1:I:325:GLN:HG2	1:I:325:GLN:O	2.18	0.42
1:K:222:GLY:O	1:L:405:THR:O	2.38	0.42
1:M:222:GLY:C	1:M:223:ASN:OD1	2.62	0.42
1:M:247:TRP:HB3	1:M:370:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:222:GLY:O	1:m:405:THR:O	2.38	0.42
1:N:281:TYR:CB	1:N:647:LEU:HD13	2.48	0.42
1:N:319:GLN:OE1	1:N:675:THR:HG23	2.20	0.42
1:N:612:TYR:CE1	1:N:727:GLY:CA	3.03	0.42
1:N:701:THR:O	1:N:701:THR:HG23	2.19	0.42
1:O:609:ARG:HH21	1:O:609:ARG:CG	2.26	0.42
1:Q:329:THR:HB	1:S:326:ASN:HD22	1.85	0.42
1:R:247:TRP:HB3	1:R:370:PHE:CE2	2.55	0.42
1:R:322:GLU:HG3	1:R:335:ASN:HB2	2.01	0.42
1:R:612:TYR:CE1	1:R:727:GLY:CA	3.03	0.42
1:S:319:GLN:OE1	1:S:675:THR:HG23	2.20	0.42
1:S:526:HIS:HD2	1:S:527:LYS:O	2.01	0.42
1:S:612:TYR:CE1	1:S:727:GLY:CA	3.03	0.42
1:S:698:ILE:HD12	1:U:389:ARG:HG2	2.00	0.42
1:T:243:SER:HB2	1:T:245:ARG:HH12	1.84	0.42
1:T:405:THR:O	1:i:222:GLY:O	2.38	0.42
1:U:222:GLY:O	1:e:405:THR:O	2.38	0.42
1:V:314:LYS:HG2	1:V:410:THR:CG2	2.46	0.42
1:V:428:GLN:HE22	1:e:351:PRO:HB3	1.83	0.42
1:W:314:LYS:HG2	1:W:410:THR:CG2	2.46	0.42
1:Y:238:ARG:HD2	1:Y:683:GLU:OE2	2.19	0.42
1:Z:396:GLU:C	1:Z:398:PHE:N	2.76	0.42
1:a:314:LYS:CG	1:a:410:THR:HG22	2.46	0.42
1:b:247:TRP:HB3	1:b:370:PHE:CE2	2.55	0.42
1:b:612:TYR:CE1	1:b:727:GLY:CA	3.03	0.42
1:c:238:ARG:HD2	1:c:683:GLU:OE2	2.19	0.42
1:c:326:ASN:HD22	1:s:329:THR:HB	1.85	0.42
1:d:238:ARG:HD2	1:d:683:GLU:OE2	2.19	0.42
1:e:238:ARG:HD2	1:e:683:GLU:OE2	2.19	0.42
1:e:247:TRP:HZ2	1:e:318:ILE:CD1	2.33	0.42
1:e:322:GLU:HG3	1:e:335:ASN:HB2	2.01	0.42
1:f:247:TRP:HB3	1:f:370:PHE:CE2	2.55	0.42
1:f:612:TYR:CE1	1:f:727:GLY:CA	3.03	0.42
1:g:396:GLU:C	1:g:398:PHE:N	2.76	0.42
1:h:222:GLY:C	1:h:223:ASN:OD1	2.62	0.42
1:h:247:TRP:HB3	1:h:370:PHE:CE2	2.55	0.42
1:i:238:ARG:HD2	1:i:683:GLU:OE2	2.19	0.42
1:i:319:GLN:OE1	1:i:675:THR:HG23	2.20	0.42
1:i:612:TYR:CE1	1:i:727:GLY:CA	3.03	0.42
1:j:247:TRP:HB3	1:j:370:PHE:CE2	2.55	0.42
1:k:247:TRP:HZ2	1:k:318:ILE:CD1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:322:GLU:HG3	1:k:335:ASN:HB2	2.01	0.42
1:k:405:THR:O	1:w:222:GLY:O	2.37	0.42
1:k:529:ASP:O	1:k:529:ASP:CG	2.62	0.42
1:k:553:ASP:CG	1:k:554:ILE:N	2.78	0.42
1:l:281:TYR:CB	1:l:647:LEU:HD13	2.48	0.42
1:l:405:THR:O	1:n:222:GLY:O	2.38	0.42
1:m:238:ARG:HD2	1:m:683:GLU:OE2	2.19	0.42
1:m:701:THR:O	1:m:701:THR:HG23	2.19	0.42
1:p:396:GLU:C	1:p:398:PHE:N	2.76	0.42
1:p:553:ASP:CG	1:p:554:ILE:N	2.78	0.42
1:q:247:TRP:HB3	1:q:370:PHE:CE2	2.55	0.42
1:q:612:TYR:CE1	1:q:727:GLY:CA	3.03	0.42
1:r:319:GLN:OE1	1:r:675:THR:HG23	2.20	0.42
1:r:365:PHE:HA	1:r:366:PRO:HD3	1.95	0.42
1:s:243:SER:HB2	1:s:245:ARG:HH12	1.84	0.42
1:s:281:TYR:CB	1:s:647:LEU:HD13	2.48	0.42
1:t:243:SER:HB2	1:t:245:ARG:HH12	1.84	0.42
1:t:247:TRP:HZ2	1:t:318:ILE:CD1	2.33	0.42
1:t:247:TRP:HB3	1:t:370:PHE:CE2	2.55	0.42
1:u:247:TRP:HB3	1:u:370:PHE:CE2	2.55	0.42
1:u:319:GLN:OE1	1:u:675:THR:HG23	2.20	0.42
1:v:297:GLN:HE22	1:y:697:GLU:N	2.13	0.42
1:v:612:TYR:CE1	1:v:727:GLY:CA	3.03	0.42
1:w:322:GLU:HG3	1:w:335:ASN:HB2	2.01	0.42
1:w:612:TYR:CE1	1:w:727:GLY:CA	3.03	0.42
1:x:281:TYR:CB	1:x:647:LEU:HD13	2.48	0.42
1:x:340:VAL:O	1:x:340:VAL:HG23	2.18	0.42
1:z:238:ARG:HD2	1:z:683:GLU:OE2	2.19	0.42
1:z:340:VAL:HG23	1:z:340:VAL:O	2.18	0.42
1:z:405:THR:O	1:4:222:GLY:O	2.38	0.42
1:2:314:LYS:HG2	1:2:410:THR:CG2	2.46	0.42
1:3:701:THR:O	1:3:701:THR:HG23	2.19	0.42
1:4:322:GLU:HG3	1:4:335:ASN:HB2	2.01	0.42
1:6:314:LYS:HG2	1:6:410:THR:CG2	2.46	0.42
1:6:319:GLN:OE1	1:6:675:THR:HG23	2.20	0.42
1:6:339:THR:CG2	1:6:404:ARG:HG3	2.49	0.42
1:7:553:ASP:CG	1:7:554:ILE:N	2.78	0.42
1:7:701:THR:O	1:7:701:THR:HG23	2.19	0.42
1:A:222:GLY:O	1:E:405:THR:O	2.38	0.42
1:A:297:GLN:HE22	1:F:697:GLU:N	2.13	0.42
1:A:565:ILE:CG2	1:A:729:ARG:NH1	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:319:GLN:OE1	1:B:675:THR:HG23	2.20	0.42
1:C:247:TRP:HZ2	1:C:318:ILE:CD1	2.33	0.42
1:C:247:TRP:HB3	1:C:370:PHE:CE2	2.55	0.42
1:D:405:THR:O	1:E:222:GLY:O	2.37	0.42
1:E:339:THR:HG22	1:E:404:ARG:HG2	2.02	0.42
1:E:612:TYR:CE1	1:E:727:GLY:CA	3.03	0.42
1:F:222:GLY:C	1:F:223:ASN:OD1	2.62	0.42
1:F:222:GLY:O	1:G:405:THR:O	2.38	0.42
1:F:247:TRP:HB3	1:F:370:PHE:CE2	2.55	0.42
1:G:339:THR:HG22	1:G:404:ARG:HG2	2.02	0.42
1:G:609:ARG:HH21	1:G:609:ARG:CG	2.26	0.42
1:H:242:THR:CG2	1:H:681:GLU:CG	2.81	0.42
1:H:247:TRP:HZ2	1:H:318:ILE:CD1	2.33	0.42
1:H:553:ASP:CG	1:H:554:ILE:N	2.78	0.42
1:H:565:ILE:CG2	1:H:729:ARG:NH1	2.83	0.42
1:I:329:THR:HB	1:J:326:ASN:HD22	1.85	0.42
1:J:698:ILE:HD12	1:L:389:ARG:HG2	2.00	0.42
1:K:326:ASN:HD22	1:7:329:THR:HB	1.85	0.42
1:L:238:ARG:HD2	1:L:683:GLU:OE2	2.19	0.42
1:L:322:GLU:HG3	1:L:335:ASN:HB2	2.01	0.42
1:L:565:ILE:CG2	1:L:729:ARG:NH1	2.83	0.42
1:N:238:ARG:HD2	1:N:683:GLU:OE2	2.19	0.42
1:O:405:THR:O	1:d:222:GLY:O	2.38	0.42
1:Q:340:VAL:O	1:Q:340:VAL:HG23	2.18	0.42
1:R:314:LYS:HG2	1:R:410:THR:CG2	2.46	0.42
1:R:339:THR:HG22	1:R:404:ARG:HG2	2.02	0.42
1:S:247:TRP:HB3	1:S:370:PHE:CE2	2.55	0.42
1:T:222:GLY:O	1:U:405:THR:O	2.38	0.42
1:U:243:SER:HB2	1:U:245:ARG:HH12	1.84	0.42
1:U:329:THR:HB	1:e:326:ASN:HD22	1.85	0.42
1:U:612:TYR:CE1	1:U:727:GLY:CA	3.03	0.42
1:W:238:ARG:HD2	1:W:683:GLU:OE2	2.19	0.42
1:W:319:GLN:OE1	1:W:675:THR:HG23	2.20	0.42
1:Y:247:TRP:HB3	1:Y:370:PHE:CE2	2.55	0.42
1:Y:329:THR:HB	1:4:326:ASN:HD22	1.85	0.42
1:Y:553:ASP:CG	1:Y:554:ILE:N	2.78	0.42
1:Y:701:THR:O	1:Y:701:THR:HG23	2.19	0.42
1:Z:247:TRP:HB3	1:Z:370:PHE:CE2	2.55	0.42
1:Z:553:ASP:CG	1:Z:554:ILE:N	2.78	0.42
1:b:565:ILE:CG2	1:b:729:ARG:NH1	2.83	0.42
1:c:247:TRP:HZ2	1:c:318:ILE:CD1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:351:PRO:HB3	1:p:428:GLN:HE22	1.83	0.42
1:c:396:GLU:C	1:c:398:PHE:N	2.76	0.42
1:c:452:SER:OG	1:c:455:THR:O	2.31	0.42
1:c:609:ARG:HH21	1:c:609:ARG:CG	2.26	0.42
1:d:529:ASP:O	1:d:529:ASP:CG	2.62	0.42
1:e:396:GLU:C	1:e:398:PHE:N	2.76	0.42
1:f:354:LEU:HA	1:f:354:LEU:HD23	1.61	0.42
1:f:565:ILE:CG2	1:f:729:ARG:NH1	2.83	0.42
1:f:701:THR:O	1:f:701:THR:HG23	2.19	0.42
1:g:247:TRP:HB3	1:g:370:PHE:CE2	2.55	0.42
1:g:329:THR:HB	1:1:326:ASN:HD22	1.85	0.42
1:l:609:ARG:HH21	1:l:609:ARG:CG	2.26	0.42
1:m:222:GLY:O	1:s:405:THR:O	2.38	0.42
1:n:238:ARG:HD2	1:n:683:GLU:OE2	2.19	0.42
1:n:416:GLU:H	1:n:416:GLU:HG2	1.67	0.42
1:q:314:LYS:CG	1:q:410:THR:HG22	2.46	0.42
1:q:322:GLU:HG3	1:q:335:ASN:HB2	2.01	0.42
1:r:326:ASN:HD22	1:x:329:THR:HB	1.85	0.42
1:r:612:TYR:CE1	1:r:727:GLY:CA	3.03	0.42
1:t:339:THR:CG2	1:t:404:ARG:HG3	2.49	0.42
1:v:222:GLY:O	1:w:405:THR:O	2.38	0.42
1:v:565:ILE:CG2	1:v:729:ARG:NH1	2.83	0.42
1:w:339:THR:HG22	1:w:404:ARG:HG2	2.02	0.42
1:x:238:ARG:HD2	1:x:683:GLU:OE2	2.19	0.42
1:y:222:GLY:C	1:y:223:ASN:OD1	2.62	0.42
1:y:247:TRP:HB3	1:y:370:PHE:CE2	2.55	0.42
1:y:339:THR:CG2	1:y:404:ARG:HG3	2.49	0.42
1:y:553:ASP:CG	1:y:554:ILE:N	2.78	0.42
1:y:565:ILE:CG2	1:y:729:ARG:NH1	2.83	0.42
1:z:322:GLU:HG3	1:z:335:ASN:HB2	2.01	0.42
1:z:339:THR:CG2	1:z:404:ARG:HG3	2.49	0.42
1:z:565:ILE:CG2	1:z:729:ARG:NH1	2.83	0.42
1:1:319:GLN:OE1	1:1:675:THR:HG23	2.20	0.42
1:3:314:LYS:CG	1:3:410:THR:HG22	2.46	0.42
1:5:247:TRP:HZ2	1:5:318:ILE:CD1	2.33	0.42
1:5:247:TRP:HB3	1:5:370:PHE:CE2	2.55	0.42
1:5:553:ASP:CG	1:5:554:ILE:N	2.78	0.42
1:7:247:TRP:HB3	1:7:370:PHE:CE2	2.55	0.42
1:8:247:TRP:HB3	1:8:370:PHE:CE2	2.55	0.42
1:8:553:ASP:CG	1:8:554:ILE:N	2.78	0.42
1:A:326:ASN:HD22	1:B:329:THR:HB	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:PRO:HB3	1:M:428:GLN:HE22	1.83	0.42
1:C:396:GLU:C	1:C:398:PHE:N	2.76	0.42
1:E:325:GLN:O	1:E:325:GLN:HG2	2.18	0.42
1:E:565:ILE:CG2	1:E:729:ARG:NH1	2.83	0.42
1:F:553:ASP:CG	1:F:554:ILE:N	2.78	0.42
1:G:339:THR:CG2	1:G:404:ARG:HG3	2.49	0.42
1:G:529:ASP:O	1:G:529:ASP:CG	2.62	0.42
1:H:222:GLY:C	1:H:223:ASN:OD1	2.62	0.42
1:H:247:TRP:HB3	1:H:370:PHE:CE2	2.55	0.42
1:I:247:TRP:HZ2	1:I:318:ILE:CD1	2.33	0.42
1:J:222:GLY:O	1:a:405:THR:O	2.38	0.42
1:K:322:GLU:HG3	1:K:335:ASN:HB2	2.01	0.42
1:L:339:THR:CG2	1:L:404:ARG:HG3	2.49	0.42
1:L:340:VAL:HG23	1:L:340:VAL:O	2.18	0.42
1:M:222:GLY:O	1:N:405:THR:O	2.37	0.42
1:N:565:ILE:CG2	1:N:729:ARG:NH1	2.83	0.42
1:O:329:THR:HB	1:P:326:ASN:HD22	1.85	0.42
1:O:452:SER:OG	1:O:455:THR:O	2.31	0.42
1:Q:281:TYR:CB	1:Q:647:LEU:HD13	2.48	0.42
1:Q:565:ILE:CG2	1:Q:729:ARG:NH1	2.83	0.42
1:S:365:PHE:HA	1:S:366:PRO:HD3	1.95	0.42
1:S:565:ILE:CG2	1:S:729:ARG:NH1	2.83	0.42
1:T:247:TRP:HB3	1:T:370:PHE:CE2	2.55	0.42
1:U:281:TYR:CB	1:U:647:LEU:HD13	2.48	0.42
1:V:235:MET:HE2	1:V:235:MET:HB3	1.75	0.42
1:V:326:ASN:HD22	1:W:329:THR:HB	1.85	0.42
1:W:565:ILE:CG2	1:W:729:ARG:NH1	2.83	0.42
1:X:416:GLU:H	1:X:416:GLU:HG2	1.67	0.42
1:Y:247:TRP:HZ2	1:Y:318:ILE:CD1	2.33	0.42
1:Y:612:TYR:CE1	1:Y:727:GLY:CA	3.03	0.42
1:Z:529:ASP:O	1:Z:529:ASP:CG	2.62	0.42
1:b:354:LEU:HA	1:b:354:LEU:HD23	1.61	0.42
1:b:701:THR:O	1:b:701:THR:HG23	2.19	0.42
1:d:322:GLU:HG3	1:d:335:ASN:HB2	2.01	0.42
1:f:319:GLN:OE1	1:f:675:THR:HG23	2.20	0.42
1:f:405:THR:O	1:z:222:GLY:O	2.38	0.42
1:g:247:TRP:HZ2	1:g:318:ILE:CD1	2.33	0.42
1:h:222:GLY:O	1:i:405:THR:O	2.37	0.42
1:i:322:GLU:HG3	1:i:335:ASN:HB2	2.01	0.42
1:i:565:ILE:CG2	1:i:729:ARG:NH1	2.83	0.42
1:l:565:ILE:CG2	1:l:729:ARG:NH1	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:243:SER:HB2	1:m:245:ARG:HH12	1.84	0.42
1:m:247:TRP:HB3	1:m:370:PHE:CE2	2.55	0.42
1:n:322:GLU:HG3	1:n:335:ASN:HB2	2.01	0.42
1:p:326:ASN:HD22	1:6:329:THR:HB	1.85	0.42
1:q:339:THR:HG22	1:q:404:ARG:HG2	2.02	0.42
1:r:247:TRP:HB3	1:r:370:PHE:CE2	2.55	0.42
1:r:565:ILE:CG2	1:r:729:ARG:NH1	2.83	0.42
1:r:698:ILE:HD12	1:s:389:ARG:HG2	2.00	0.42
1:s:612:TYR:CE1	1:s:727:GLY:CA	3.03	0.42
1:t:222:GLY:O	1:6:405:THR:O	2.37	0.42
1:t:329:THR:HB	1:6:326:ASN:HD22	1.85	0.42
1:t:405:THR:O	1:y:222:GLY:O	2.38	0.42
1:t:529:ASP:O	1:t:529:ASP:CG	2.62	0.42
1:u:247:TRP:HZ2	1:u:318:ILE:CD1	2.33	0.42
1:u:325:GLN:O	1:u:325:GLN:HG2	2.18	0.42
1:u:329:THR:HB	1:2:326:ASN:HD22	1.85	0.42
1:u:339:THR:HG22	1:u:404:ARG:HG2	2.02	0.42
1:v:326:ASN:HD22	1:1:329:THR:HB	1.85	0.42
1:w:325:GLN:HG2	1:w:325:GLN:O	2.18	0.42
1:w:339:THR:CG2	1:w:404:ARG:HG3	2.49	0.42
1:x:565:ILE:CG2	1:x:729:ARG:NH1	2.83	0.42
1:2:222:GLY:O	1:3:405:THR:O	2.38	0.42
1:5:222:GLY:C	1:5:223:ASN:OD1	2.62	0.42
1:5:565:ILE:CG2	1:5:729:ARG:NH1	2.83	0.42
1:6:281:TYR:CB	1:6:647:LEU:HD13	2.48	0.42
1:7:238:ARG:HD2	1:7:683:GLU:OE2	2.19	0.42
1:7:612:TYR:CE1	1:7:727:GLY:CA	3.03	0.42
1:8:529:ASP:O	1:8:529:ASP:CG	2.62	0.42
1:A:314:LYS:HG2	1:A:410:THR:CG2	2.46	0.42
1:B:340:VAL:O	1:B:340:VAL:HG23	2.18	0.42
1:F:319:GLN:OE1	1:F:675:THR:HG23	2.20	0.42
1:F:339:THR:CG2	1:F:404:ARG:HG3	2.49	0.42
1:G:222:GLY:O	1:W:405:THR:O	2.37	0.42
1:G:329:THR:HB	1:W:326:ASN:HD22	1.85	0.42
1:I:339:THR:HG22	1:I:404:ARG:HG2	2.02	0.42
1:J:222:GLY:C	1:J:223:ASN:OD1	2.62	0.42
1:J:329:THR:HB	1:a:326:ASN:HD22	1.85	0.42
1:J:553:ASP:CG	1:J:554:ILE:N	2.78	0.42
1:K:281:TYR:CB	1:K:647:LEU:HD13	2.48	0.42
1:L:222:GLY:O	1:b:405:THR:O	2.38	0.42
1:N:322:GLU:HG3	1:N:335:ASN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:365:PHE:HA	1:O:366:PRO:HD3	1.95	0.42
1:O:565:ILE:CG2	1:O:729:ARG:NH1	2.83	0.42
1:P:238:ARG:HD2	1:P:683:GLU:OE2	2.19	0.42
1:R:319:GLN:OE1	1:R:675:THR:HG23	2.20	0.42
1:T:319:GLN:OE1	1:T:675:THR:HG23	2.20	0.42
1:T:612:TYR:CE1	1:T:727:GLY:CA	3.03	0.42
1:V:405:THR:O	1:W:222:GLY:O	2.38	0.42
1:W:281:TYR:CB	1:W:647:LEU:HD13	2.48	0.42
1:X:339:THR:CG2	1:X:404:ARG:HG3	2.49	0.42
1:X:612:TYR:CE1	1:X:727:GLY:CA	3.03	0.42
1:X:701:THR:O	1:X:701:THR:HG23	2.19	0.42
1:Z:405:THR:O	1:a:222:GLY:O	2.38	0.42
1:a:565:ILE:CG2	1:a:729:ARG:NH1	2.83	0.42
1:b:319:GLN:OE1	1:b:675:THR:HG23	2.20	0.42
1:e:609:ARG:HH21	1:e:609:ARG:CG	2.26	0.42
1:j:222:GLY:O	1:x:405:THR:O	2.38	0.42
1:j:238:ARG:HD2	1:j:683:GLU:OE2	2.19	0.42
1:j:243:SER:HB2	1:j:245:ARG:HH12	1.84	0.42
1:j:326:ASN:HD22	1:l:329:THR:HB	1.85	0.42
1:j:701:THR:O	1:j:701:THR:HG23	2.19	0.42
1:m:339:THR:CG2	1:m:404:ARG:HG3	2.49	0.42
1:o:612:TYR:CE1	1:o:727:GLY:CA	3.03	0.42
1:o:701:THR:O	1:o:701:THR:HG23	2.19	0.42
1:p:329:THR:HB	1:q:326:ASN:HD22	1.85	0.42
1:p:405:THR:O	1:6:222:GLY:O	2.38	0.42
1:q:553:ASP:CG	1:q:554:ILE:N	2.78	0.42
1:r:339:THR:HG22	1:r:404:ARG:HG2	2.02	0.42
1:s:701:THR:O	1:s:701:THR:HG23	2.19	0.42
1:t:235:MET:HE2	1:t:235:MET:HB3	1.74	0.42
1:t:701:THR:O	1:t:701:THR:HG23	2.19	0.42
1:v:697:GLU:N	1:y:297:GLN:HE22	2.13	0.42
1:w:565:ILE:CG2	1:w:729:ARG:NH1	2.83	0.42
1:x:247:TRP:HB3	1:x:370:PHE:CE2	2.55	0.42
1:1:340:VAL:O	1:1:340:VAL:HG23	2.18	0.42
1:2:222:GLY:C	1:2:223:ASN:OD1	2.62	0.42
1:2:553:ASP:CG	1:2:554:ILE:N	2.78	0.42
1:3:222:GLY:O	1:8:405:THR:O	2.38	0.42
1:3:565:ILE:CG2	1:3:729:ARG:NH1	2.83	0.42
1:6:235:MET:HE2	1:6:235:MET:HB3	1.74	0.42
1:6:238:ARG:HD2	1:6:683:GLU:OE2	2.19	0.42
1:6:565:ILE:CG2	1:6:729:ARG:NH1	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:247:TRP:HZ2	1:7:318:ILE:CD1	2.33	0.42
1:8:396:GLU:C	1:8:398:PHE:N	2.76	0.42
1:A:247:TRP:HZ2	1:A:318:ILE:CD1	2.33	0.41
1:A:319:GLN:OE1	1:A:675:THR:HG23	2.20	0.41
1:A:329:THR:HB	1:E:326:ASN:HD22	1.85	0.41
1:A:553:ASP:CG	1:A:554:ILE:N	2.78	0.41
1:B:565:ILE:CG2	1:B:729:ARG:NH1	2.83	0.41
1:C:235:MET:HE2	1:C:235:MET:HB3	1.75	0.41
1:C:319:GLN:OE1	1:C:675:THR:HG23	2.20	0.41
1:E:339:THR:CG2	1:E:404:ARG:HG3	2.49	0.41
1:G:319:GLN:OE1	1:G:675:THR:HG23	2.20	0.41
1:G:701:THR:O	1:G:701:THR:HG23	2.19	0.41
1:J:565:ILE:CG2	1:J:729:ARG:NH1	2.83	0.41
1:M:247:TRP:HZ2	1:M:318:ILE:CD1	2.33	0.41
1:M:553:ASP:CG	1:M:554:ILE:N	2.78	0.41
1:P:319:GLN:OE1	1:P:675:THR:HG23	2.20	0.41
1:Q:247:TRP:HB3	1:Q:370:PHE:CE2	2.55	0.41
1:R:326:ASN:HD22	1:V:329:THR:HB	1.85	0.41
1:R:553:ASP:CG	1:R:554:ILE:N	2.78	0.41
1:S:339:THR:HG22	1:S:404:ARG:HG2	2.02	0.41
1:S:553:ASP:CG	1:S:554:ILE:N	2.78	0.41
1:U:340:VAL:O	1:U:340:VAL:HG23	2.18	0.41
1:V:247:TRP:HB3	1:V:370:PHE:CE2	2.55	0.41
1:X:405:THR:O	1:f:222:GLY:O	2.38	0.41
1:Z:701:THR:O	1:Z:701:THR:HG23	2.19	0.41
1:a:319:GLN:OE1	1:a:675:THR:HG23	2.20	0.41
1:b:243:SER:HB2	1:b:245:ARG:HH12	1.84	0.41
1:b:329:THR:HB	1:o:326:ASN:HD22	1.85	0.41
1:d:565:ILE:CG2	1:d:729:ARG:NH1	2.83	0.41
1:h:553:ASP:CG	1:h:554:ILE:N	2.78	0.41
1:m:319:GLN:OE1	1:m:675:THR:HG23	2.20	0.41
1:m:612:TYR:CE1	1:m:727:GLY:CA	3.03	0.41
1:n:565:ILE:CG2	1:n:729:ARG:NH1	2.83	0.41
1:o:242:THR:CG2	1:o:681:GLU:CG	2.81	0.41
1:o:339:THR:CG2	1:o:404:ARG:HG3	2.49	0.41
1:p:247:TRP:HB3	1:p:370:PHE:CE2	2.55	0.41
1:q:319:GLN:OE1	1:q:675:THR:HG23	2.20	0.41
1:r:340:VAL:O	1:r:340:VAL:HG23	2.18	0.41
1:r:553:ASP:CG	1:r:554:ILE:N	2.78	0.41
1:s:339:THR:HG22	1:s:404:ARG:HG2	2.02	0.41
1:t:319:GLN:OE1	1:t:675:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:222:GLY:C	1:u:223:ASN:OD1	2.62	0.41
1:u:405:THR:O	1:5:222:GLY:O	2.38	0.41
1:v:314:LYS:HG2	1:v:410:THR:CG2	2.46	0.41
1:v:319:GLN:OE1	1:v:675:THR:HG23	2.20	0.41
1:v:329:THR:HB	1:w:326:ASN:HD22	1.85	0.41
1:v:553:ASP:CG	1:v:554:ILE:N	2.78	0.41
1:y:319:GLN:OE1	1:y:675:THR:HG23	2.20	0.41
1:1:565:ILE:CG2	1:1:729:ARG:NH1	2.83	0.41
1:2:329:THR:HB	1:3:326:ASN:HD22	1.85	0.41
1:2:565:ILE:CG2	1:2:729:ARG:NH1	2.83	0.41
1:2:653:VAL:HA	1:2:654:PRO:HD3	1.90	0.41
1:4:529:ASP:O	1:4:529:ASP:CG	2.62	0.41
1:8:314:LYS:CG	1:8:410:THR:HG22	2.46	0.41
1:8:354:LEU:HA	1:8:354:LEU:HD23	1.61	0.41
1:A:247:TRP:HB3	1:A:370:PHE:CE2	2.55	0.41
1:A:405:THR:O	1:B:222:GLY:O	2.38	0.41
1:B:612:TYR:CE1	1:B:727:GLY:CA	3.03	0.41
1:G:553:ASP:CG	1:G:554:ILE:N	2.78	0.41
1:G:565:ILE:CG2	1:G:729:ARG:NH1	2.83	0.41
1:H:222:GLY:O	1:I:405:THR:O	2.38	0.41
1:K:425:ALA:O	1:K:732:THR:HA	2.21	0.41
1:K:529:ASP:O	1:K:529:ASP:CG	2.62	0.41
1:K:698:ILE:HD12	1:a:389:ARG:HG2	2.00	0.41
1:M:314:LYS:CG	1:M:410:THR:HG22	2.46	0.41
1:O:326:ASN:HD22	1:d:329:THR:HB	1.85	0.41
1:P:222:GLY:O	1:Q:405:THR:O	2.38	0.41
1:P:243:SER:HB2	1:P:245:ARG:HH12	1.84	0.41
1:P:329:THR:HB	1:Q:326:ASN:HD22	1.85	0.41
1:P:553:ASP:CG	1:P:554:ILE:N	2.78	0.41
1:P:701:THR:O	1:P:701:THR:HG23	2.19	0.41
1:S:340:VAL:O	1:S:340:VAL:HG23	2.18	0.41
1:T:339:THR:CG2	1:T:404:ARG:HG3	2.49	0.41
1:U:339:THR:HG22	1:U:404:ARG:HG2	2.02	0.41
1:U:339:THR:CG2	1:U:404:ARG:HG3	2.49	0.41
1:U:701:THR:O	1:U:701:THR:HG23	2.19	0.41
1:V:701:THR:O	1:V:701:THR:HG23	2.19	0.41
1:X:247:TRP:HZ2	1:X:318:ILE:CD1	2.33	0.41
1:X:247:TRP:HB3	1:X:370:PHE:CE2	2.55	0.41
1:X:326:ASN:HD22	1:f:329:THR:HB	1.85	0.41
1:b:222:GLY:O	1:o:405:THR:O	2.38	0.41
1:c:319:GLN:OE1	1:c:675:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:452:SER:OG	1:e:455:THR:O	2.31	0.41
1:f:428:GLN:HE22	1:h:351:PRO:HB3	1.83	0.41
1:g:222:GLY:C	1:g:223:ASN:OD1	2.62	0.41
1:g:319:GLN:OE1	1:g:675:THR:HG23	2.20	0.41
1:g:351:PRO:HB3	1:h:428:GLN:HE22	1.83	0.41
1:j:319:GLN:OE1	1:j:675:THR:HG23	2.20	0.41
1:j:553:ASP:CG	1:j:554:ILE:N	2.78	0.41
1:k:565:ILE:CG2	1:k:729:ARG:NH1	2.83	0.41
1:l:326:ASN:HD22	1:n:329:THR:HB	1.85	0.41
1:l:452:SER:OG	1:l:455:THR:O	2.31	0.41
1:m:329:THR:HB	1:s:326:ASN:HD22	1.85	0.41
1:n:339:THR:CG2	1:n:404:ARG:HG3	2.49	0.41
1:o:329:THR:HB	1:7:326:ASN:HD22	1.85	0.41
1:s:339:THR:CG2	1:s:404:ARG:HG3	2.49	0.41
1:s:340:VAL:O	1:s:340:VAL:HG23	2.18	0.41
1:t:553:ASP:CG	1:t:554:ILE:N	2.78	0.41
1:t:565:ILE:CG2	1:t:729:ARG:NH1	2.83	0.41
1:v:247:TRP:HZ2	1:v:318:ILE:CD1	2.33	0.41
1:v:247:TRP:HB3	1:v:370:PHE:CE2	2.55	0.41
1:x:247:TRP:HZ2	1:x:318:ILE:CD1	2.33	0.41
1:1:314:LYS:CG	1:1:410:THR:HG22	2.46	0.41
1:3:319:GLN:OE1	1:3:675:THR:HG23	2.20	0.41
1:4:281:TYR:CB	1:4:647:LEU:HD13	2.48	0.41
1:4:425:ALA:O	1:4:732:THR:HA	2.21	0.41
1:4:565:ILE:CG2	1:4:729:ARG:NH1	2.83	0.41
1:8:314:LYS:HG2	1:8:410:THR:CG2	2.46	0.41
1:8:339:THR:HG22	1:8:404:ARG:HG2	2.02	0.41
1:8:565:ILE:CG2	1:8:729:ARG:NH1	2.83	0.41
1:A:697:GLU:N	1:F:297:GLN:HE22	2.13	0.41
1:B:314:LYS:CG	1:B:410:THR:HG22	2.46	0.41
1:C:222:GLY:C	1:C:223:ASN:OD1	2.62	0.41
1:C:322:GLU:HG3	1:C:335:ASN:HB2	2.01	0.41
1:C:612:TYR:CE1	1:C:727:GLY:CA	3.03	0.41
1:D:314:LYS:CG	1:D:410:THR:HG22	2.46	0.41
1:D:565:ILE:CG2	1:D:729:ARG:NH1	2.83	0.41
1:E:319:GLN:OE1	1:E:675:THR:HG23	2.20	0.41
1:E:396:GLU:C	1:E:398:PHE:N	2.76	0.41
1:G:598:GLN:NE2	1:G:601:LEU:HD11	2.36	0.41
1:J:425:ALA:O	1:J:732:THR:HA	2.21	0.41
1:K:565:ILE:CG2	1:K:729:ARG:NH1	2.83	0.41
1:M:351:PRO:HB3	1:b:428:GLN:HE22	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:396:GLU:C	1:P:398:PHE:N	2.76	0.41
1:Q:247:TRP:HZ2	1:Q:318:ILE:CD1	2.33	0.41
1:R:428:GLN:HE22	1:S:351:PRO:HB3	1.83	0.41
1:R:565:ILE:CG2	1:R:729:ARG:NH1	2.83	0.41
1:S:247:TRP:HZ2	1:S:318:ILE:CD1	2.33	0.41
1:S:529:ASP:O	1:S:529:ASP:CG	2.62	0.41
1:U:247:TRP:HB3	1:U:370:PHE:CE2	2.55	0.41
1:W:653:VAL:HA	1:W:654:PRO:HD3	1.90	0.41
1:X:329:THR:HB	1:Y:326:ASN:HD22	1.85	0.41
1:Z:339:THR:HG22	1:Z:404:ARG:HG2	2.02	0.41
1:Z:565:ILE:CG2	1:Z:729:ARG:NH1	2.83	0.41
1:Z:598:GLN:NE2	1:Z:601:LEU:HD11	2.36	0.41
1:a:529:ASP:O	1:a:529:ASP:CG	2.62	0.41
1:d:319:GLN:OE1	1:d:675:THR:HG23	2.20	0.41
1:d:339:THR:CG2	1:d:404:ARG:HG3	2.49	0.41
1:e:222:GLY:O	1:h:405:THR:O	2.38	0.41
1:e:319:GLN:OE1	1:e:675:THR:HG23	2.20	0.41
1:f:243:SER:HB2	1:f:245:ARG:HH12	1.84	0.41
1:g:612:TYR:CE1	1:g:727:GLY:CA	3.03	0.41
1:h:247:TRP:HZ2	1:h:318:ILE:CD1	2.33	0.41
1:h:314:LYS:CG	1:h:410:THR:HG22	2.46	0.41
1:j:329:THR:HB	1:x:326:ASN:HD22	1.85	0.41
1:j:396:GLU:C	1:j:398:PHE:N	2.76	0.41
1:n:319:GLN:OE1	1:n:675:THR:HG23	2.20	0.41
1:o:247:TRP:HB3	1:o:370:PHE:CE2	2.55	0.41
1:o:247:TRP:HZ2	1:o:318:ILE:CD1	2.33	0.41
1:q:565:ILE:CG2	1:q:729:ARG:NH1	2.83	0.41
1:t:326:ASN:HD22	1:y:329:THR:HB	1.85	0.41
1:t:598:GLN:NE2	1:t:601:LEU:HD11	2.36	0.41
1:u:396:GLU:C	1:u:398:PHE:N	2.76	0.41
1:x:319:GLN:OE1	1:x:675:THR:HG23	2.20	0.41
1:y:243:SER:HB2	1:y:245:ARG:HH12	1.84	0.41
1:y:598:GLN:NE2	1:y:601:LEU:HD11	2.36	0.41
1:1:612:TYR:CE1	1:1:727:GLY:CA	3.03	0.41
1:2:425:ALA:O	1:2:732:THR:HA	2.21	0.41
1:3:389:ARG:HG2	1:4:698:ILE:HD12	2.00	0.41
1:5:319:GLN:OE1	1:5:675:THR:HG23	2.20	0.41
1:5:405:THR:O	1:8:222:GLY:O	2.37	0.41
1:7:297:GLN:HE22	1:8:697:GLU:N	2.13	0.41
1:8:598:GLN:NE2	1:8:601:LEU:HD11	2.36	0.41
1:8:701:THR:O	1:8:701:THR:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:701:THR:O	1:A:701:THR:HG23	2.19	0.41
1:B:405:THR:O	1:C:222:GLY:O	2.38	0.41
1:D:319:GLN:OE1	1:D:675:THR:HG23	2.20	0.41
1:F:243:SER:HB2	1:F:245:ARG:HH12	1.84	0.41
1:F:329:THR:HB	1:G:326:ASN:HD22	1.85	0.41
1:F:598:GLN:NE2	1:F:601:LEU:HD11	2.36	0.41
1:H:281:TYR:CB	1:H:647:LEU:HD13	2.48	0.41
1:H:319:GLN:OE1	1:H:675:THR:HG23	2.20	0.41
1:H:396:GLU:C	1:H:398:PHE:N	2.76	0.41
1:I:222:GLY:C	1:I:223:ASN:OD1	2.62	0.41
1:I:396:GLU:C	1:I:398:PHE:N	2.76	0.41
1:J:701:THR:O	1:J:701:THR:HG23	2.19	0.41
1:K:273:PHE:HB3	1:K:381:ASN:HB3	2.03	0.41
1:L:222:GLY:C	1:L:223:ASN:OD1	2.62	0.41
1:M:405:THR:O	1:c:222:GLY:O	2.38	0.41
1:O:553:ASP:CG	1:O:554:ILE:N	2.78	0.41
1:Q:319:GLN:OE1	1:Q:675:THR:HG23	2.20	0.41
1:R:235:MET:HE2	1:R:235:MET:HB3	1.74	0.41
1:T:329:THR:HB	1:U:326:ASN:HD22	1.85	0.41
1:U:319:GLN:OE1	1:U:675:THR:HG23	2.20	0.41
1:U:598:GLN:NE2	1:U:601:LEU:HD11	2.36	0.41
1:V:565:ILE:CG2	1:V:729:ARG:NH1	2.83	0.41
1:V:598:GLN:NE2	1:V:601:LEU:HD11	2.36	0.41
1:X:314:LYS:CG	1:X:410:THR:HG22	2.46	0.41
1:Y:314:LYS:CG	1:Y:410:THR:HG22	2.46	0.41
1:Z:314:LYS:CG	1:Z:410:THR:HG22	2.46	0.41
1:b:273:PHE:HB3	1:b:381:ASN:HB3	2.03	0.41
1:b:281:TYR:CB	1:b:647:LEU:HD13	2.48	0.41
1:e:235:MET:HE2	1:e:235:MET:HB3	1.74	0.41
1:f:281:TYR:CB	1:f:647:LEU:HD13	2.48	0.41
1:g:322:GLU:HG3	1:g:335:ASN:HB2	2.01	0.41
1:g:565:ILE:CG2	1:g:729:ARG:NH1	2.83	0.41
1:h:314:LYS:HG2	1:h:410:THR:CG2	2.46	0.41
1:h:565:ILE:CG2	1:h:729:ARG:NH1	2.83	0.41
1:l:243:SER:HB2	1:l:245:ARG:HH12	1.84	0.41
1:l:247:TRP:HZ2	1:l:318:ILE:CD1	2.33	0.41
1:l:365:PHE:HA	1:l:366:PRO:HD3	1.95	0.41
1:l:553:ASP:CG	1:l:554:ILE:N	2.78	0.41
1:o:314:LYS:CG	1:o:410:THR:HG22	2.46	0.41
1:p:598:GLN:NE2	1:p:601:LEU:HD11	2.36	0.41
1:p:701:THR:O	1:p:701:THR:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:428:GLN:HE22	1:r:351:PRO:HB3	1.83	0.41
1:r:247:TRP:HZ2	1:r:318:ILE:CD1	2.33	0.41
1:s:247:TRP:HB3	1:s:370:PHE:CE2	2.55	0.41
1:s:598:GLN:NE2	1:s:601:LEU:HD11	2.36	0.41
1:u:598:GLN:NE2	1:u:601:LEU:HD11	2.36	0.41
1:v:405:THR:O	1:1:222:GLY:O	2.38	0.41
1:v:701:THR:O	1:v:701:THR:HG23	2.19	0.41
1:w:247:TRP:HB3	1:w:370:PHE:CE2	2.55	0.41
1:w:319:GLN:OE1	1:w:675:THR:HG23	2.20	0.41
1:2:701:THR:O	1:2:701:THR:HG23	2.19	0.41
1:4:273:PHE:HB3	1:4:381:ASN:HB3	2.03	0.41
1:4:354:LEU:HD23	1:4:354:LEU:HA	1.61	0.41
1:5:281:TYR:CB	1:5:647:LEU:HD13	2.48	0.41
1:6:322:GLU:HG3	1:6:335:ASN:HB2	2.01	0.41
1:8:425:ALA:O	1:8:732:THR:HA	2.21	0.41
1:8:609:ARG:HH21	1:8:609:ARG:CG	2.26	0.41
1:A:311:LEU:C	1:A:311:LEU:HD12	2.46	0.41
1:C:462:PHE:O	1:b:552:VAL:HG22	2.21	0.41
1:C:565:ILE:CG2	1:C:729:ARG:NH1	2.83	0.41
1:D:395:LEU:O	1:D:398:PHE:HD2	2.04	0.41
1:E:247:TRP:HB3	1:E:370:PHE:CE2	2.55	0.41
1:E:281:TYR:CB	1:E:647:LEU:HD13	2.48	0.41
1:F:281:TYR:CB	1:F:647:LEU:HD13	2.48	0.41
1:F:396:GLU:C	1:F:398:PHE:N	2.76	0.41
1:H:405:THR:O	1:Z:222:GLY:O	2.37	0.41
1:I:598:GLN:NE2	1:I:601:LEU:HD11	2.36	0.41
1:J:319:GLN:HB2	1:J:675:THR:HG22	2.03	0.41
1:J:653:VAL:HA	1:J:654:PRO:HD3	1.90	0.41
1:M:314:LYS:HG2	1:M:410:THR:CG2	2.46	0.41
1:M:565:ILE:CG2	1:M:729:ARG:NH1	2.83	0.41
1:N:529:ASP:O	1:N:529:ASP:CG	2.62	0.41
1:O:247:TRP:HZ2	1:O:318:ILE:CD1	2.33	0.41
1:O:319:GLN:OE1	1:O:675:THR:HG23	2.20	0.41
1:Q:354:LEU:HD23	1:Q:354:LEU:HA	1.61	0.41
1:R:425:ALA:O	1:R:732:THR:HA	2.21	0.41
1:S:598:GLN:NE2	1:S:601:LEU:HD11	2.36	0.41
1:T:326:ASN:HD22	1:i:329:THR:HB	1.85	0.41
1:V:339:THR:HG22	1:V:404:ARG:HG2	2.02	0.41
1:W:322:GLU:HG3	1:W:335:ASN:HB2	2.01	0.41
1:W:425:ALA:O	1:W:732:THR:HA	2.21	0.41
1:X:273:PHE:HB3	1:X:381:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:297:GLN:HE22	1:Z:697:GLU:N	2.13	0.41
1:Z:314:LYS:HG2	1:Z:410:THR:CG2	2.46	0.41
1:Z:425:ALA:O	1:Z:732:THR:HA	2.21	0.41
1:b:339:THR:CG2	1:b:404:ARG:HG3	2.49	0.41
1:b:529:ASP:O	1:b:529:ASP:CG	2.62	0.41
1:d:598:GLN:NE2	1:d:601:LEU:HD11	2.36	0.41
1:f:273:PHE:HB3	1:f:381:ASN:HB3	2.03	0.41
1:f:340:VAL:O	1:f:340:VAL:HG23	2.19	0.41
1:g:222:GLY:O	1:1:405:THR:O	2.38	0.41
1:h:329:THR:HB	1:i:326:ASN:HD22	1.85	0.41
1:i:247:TRP:HB3	1:i:370:PHE:CE2	2.55	0.41
1:i:351:PRO:HB3	1:k:428:GLN:HE22	1.83	0.41
1:k:314:LYS:CG	1:k:410:THR:HG22	2.46	0.41
1:k:319:GLN:OE1	1:k:675:THR:HG23	2.20	0.41
1:k:395:LEU:O	1:k:398:PHE:HD2	2.04	0.41
1:n:598:GLN:NE2	1:n:601:LEU:HD11	2.36	0.41
1:o:273:PHE:HB3	1:o:381:ASN:HB3	2.03	0.41
1:p:222:GLY:O	1:q:405:THR:O	2.38	0.41
1:p:243:SER:HB2	1:p:245:ARG:HH12	1.84	0.41
1:p:297:GLN:HE22	1:s:697:GLU:N	2.13	0.41
1:p:565:ILE:CG2	1:p:729:ARG:NH1	2.83	0.41
1:q:425:ALA:O	1:q:732:THR:HA	2.21	0.41
1:r:529:ASP:O	1:r:529:ASP:CG	2.62	0.41
1:r:598:GLN:NE2	1:r:601:LEU:HD11	2.36	0.41
1:s:319:GLN:OE1	1:s:675:THR:HG23	2.20	0.41
1:u:326:ASN:HD22	1:5:329:THR:HB	1.85	0.41
1:v:311:LEU:C	1:v:311:LEU:HD12	2.46	0.41
1:v:452:SER:OG	1:v:455:THR:O	2.31	0.41
1:w:281:TYR:CB	1:w:647:LEU:HD13	2.48	0.41
1:y:281:TYR:CB	1:y:647:LEU:HD13	2.48	0.41
1:y:396:GLU:C	1:y:398:PHE:N	2.76	0.41
1:z:222:GLY:C	1:z:223:ASN:OD1	2.62	0.41
1:2:319:GLN:HB2	1:2:675:THR:HG22	2.03	0.41
1:4:314:LYS:HG2	1:4:410:THR:CG2	2.46	0.41
1:4:598:GLN:NE2	1:4:601:LEU:HD11	2.36	0.41
1:5:354:LEU:HD23	1:5:354:LEU:HA	1.61	0.41
1:5:396:GLU:C	1:5:398:PHE:N	2.76	0.41
1:6:425:ALA:O	1:6:732:THR:HA	2.21	0.41
1:6:598:GLN:NE2	1:6:601:LEU:HD11	2.36	0.41
1:6:609:ARG:HH21	1:6:609:ARG:CG	2.26	0.41
1:8:339:THR:CG2	1:8:404:ARG:HG3	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:PHE:O	1:G:552:VAL:HG22	2.21	0.41
1:B:319:GLN:O	1:B:674:SER:CA	2.69	0.41
1:C:273:PHE:HB3	1:C:381:ASN:HB3	2.03	0.41
1:C:697:GLU:N	1:L:297:GLN:HE22	2.13	0.41
1:E:552:VAL:HG22	1:F:462:PHE:O	2.21	0.41
1:F:405:THR:O	1:R:222:GLY:O	2.38	0.41
1:G:653:VAL:HA	1:G:654:PRO:HD3	1.90	0.41
1:H:329:THR:HB	1:I:326:ASN:HD22	1.85	0.41
1:J:281:TYR:CB	1:J:647:LEU:HD13	2.48	0.41
1:K:329:THR:HB	1:L:326:ASN:HD22	1.85	0.41
1:K:428:GLN:HE22	1:a:351:PRO:HB3	1.83	0.41
1:K:598:GLN:NE2	1:K:601:LEU:HD11	2.36	0.41
1:M:319:GLN:O	1:M:674:SER:CA	2.69	0.41
1:N:247:TRP:HB3	1:N:370:PHE:CE2	2.55	0.41
1:N:329:THR:HB	1:m:326:ASN:HD22	1.85	0.41
1:O:222:GLY:O	1:P:405:THR:O	2.37	0.41
1:O:243:SER:HB2	1:O:245:ARG:HH12	1.84	0.41
1:O:319:GLN:O	1:O:674:SER:CA	2.69	0.41
1:O:462:PHE:O	1:m:552:VAL:HG22	2.21	0.41
1:O:701:THR:O	1:O:701:THR:HG23	2.19	0.41
1:P:311:LEU:C	1:P:311:LEU:HD12	2.46	0.41
1:R:405:THR:O	1:V:222:GLY:O	2.38	0.41
1:S:273:PHE:HB3	1:S:381:ASN:HB3	2.03	0.41
1:S:462:PHE:O	1:U:552:VAL:HG22	2.21	0.41
1:T:281:TYR:CB	1:T:647:LEU:HD13	2.48	0.41
1:T:462:PHE:O	1:d:552:VAL:HG22	2.21	0.41
1:V:273:PHE:HB3	1:V:381:ASN:HB3	2.03	0.41
1:V:319:GLN:OE1	1:V:675:THR:HG23	2.20	0.41
1:W:598:GLN:NE2	1:W:601:LEU:HD11	2.36	0.41
1:W:612:TYR:CE1	1:W:727:GLY:CA	3.03	0.41
1:X:242:THR:CG2	1:X:681:GLU:CG	2.81	0.41
1:X:552:VAL:HG22	1:e:462:PHE:O	2.21	0.41
1:Y:529:ASP:O	1:Y:529:ASP:CG	2.62	0.41
1:a:598:GLN:NE2	1:a:601:LEU:HD11	2.36	0.41
1:b:247:TRP:HZ2	1:b:318:ILE:CD1	2.33	0.41
1:b:340:VAL:O	1:b:340:VAL:HG23	2.19	0.41
1:b:425:ALA:O	1:b:732:THR:HA	2.21	0.41
1:c:281:TYR:CB	1:c:647:LEU:HD13	2.48	0.41
1:c:462:PHE:O	1:o:552:VAL:HG22	2.21	0.41
1:d:273:PHE:HB3	1:d:381:ASN:HB3	2.03	0.41
1:f:552:VAL:HG22	1:g:462:PHE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:319:GLN:O	1:h:674:SER:CA	2.69	0.41
1:j:565:ILE:CG2	1:j:729:ARG:NH1	2.83	0.41
1:l:319:GLN:O	1:l:674:SER:CA	2.69	0.41
1:m:281:TYR:CB	1:m:647:LEU:HD13	2.48	0.41
1:m:462:PHE:O	1:n:552:VAL:HG22	2.21	0.41
1:n:273:PHE:HB3	1:n:381:ASN:HB3	2.03	0.41
1:n:612:TYR:CE1	1:n:727:GLY:CA	3.03	0.41
1:o:565:ILE:CG2	1:o:729:ARG:NH1	2.83	0.41
1:p:235:MET:HE2	1:p:235:MET:HB3	1.75	0.41
1:p:314:LYS:CG	1:p:410:THR:HG22	2.46	0.41
1:p:339:THR:HG22	1:p:404:ARG:HG2	2.02	0.41
1:q:222:GLY:O	1:y:405:THR:O	2.38	0.41
1:r:273:PHE:HB3	1:r:381:ASN:HB3	2.03	0.41
1:r:462:PHE:O	1:s:552:VAL:HG22	2.21	0.41
1:t:311:LEU:C	1:t:311:LEU:HD12	2.46	0.41
1:t:552:VAL:HG22	1:v:462:PHE:O	2.21	0.41
1:t:612:TYR:CE1	1:t:727:GLY:CA	3.03	0.41
1:v:653:VAL:HA	1:v:654:PRO:HD3	1.90	0.41
1:w:396:GLU:C	1:w:398:PHE:N	2.76	0.41
1:w:552:VAL:HG22	1:y:462:PHE:O	2.21	0.41
1:1:319:GLN:O	1:1:674:SER:CA	2.69	0.41
1:2:281:TYR:CB	1:2:647:LEU:HD13	2.48	0.41
1:5:462:PHE:O	1:6:552:VAL:HG22	2.21	0.41
1:7:339:THR:CB	1:7:403:LEU:O	2.69	0.41
1:A:428:GLN:HE22	1:G:351:PRO:HB3	1.83	0.41
1:A:653:VAL:HA	1:A:654:PRO:HD3	1.90	0.41
1:B:413:TYR:CD2	1:B:413:TYR:C	2.99	0.41
1:C:319:GLN:HB2	1:C:675:THR:HG22	2.03	0.41
1:C:339:THR:CG2	1:C:404:ARG:HG3	2.49	0.41
1:C:553:ASP:CG	1:C:554:ILE:N	2.78	0.41
1:G:311:LEU:C	1:G:311:LEU:HD12	2.46	0.41
1:G:425:ALA:O	1:G:732:THR:HA	2.21	0.41
1:G:612:TYR:CE1	1:G:727:GLY:CA	3.03	0.41
1:H:462:PHE:O	1:W:552:VAL:HG22	2.21	0.41
1:H:598:GLN:NE2	1:H:601:LEU:HD11	2.36	0.41
1:K:314:LYS:HG2	1:K:410:THR:CG2	2.46	0.41
1:K:339:THR:HG22	1:K:404:ARG:HG2	2.02	0.41
1:K:339:THR:CB	1:K:403:LEU:O	2.69	0.41
1:L:319:GLN:O	1:L:674:SER:CA	2.69	0.41
1:M:311:LEU:C	1:M:311:LEU:HD12	2.46	0.41
1:M:329:THR:HB	1:N:326:ASN:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:396:GLU:C	1:M:398:PHE:N	2.76	0.41
1:N:273:PHE:HB3	1:N:381:ASN:HB3	2.03	0.41
1:P:565:ILE:CG2	1:P:729:ARG:NH1	2.83	0.41
1:S:311:LEU:C	1:S:311:LEU:HD12	2.46	0.41
1:T:273:PHE:HB3	1:T:381:ASN:HB3	2.03	0.41
1:T:552:VAL:HG22	1:l:462:PHE:O	2.21	0.41
1:T:565:ILE:CG2	1:T:729:ARG:NH1	2.83	0.41
1:U:319:GLN:O	1:U:674:SER:CA	2.69	0.41
1:V:243:SER:HB2	1:V:245:ARG:HH12	1.84	0.41
1:V:425:ALA:O	1:V:732:THR:HA	2.21	0.41
1:V:552:VAL:HG22	1:X:462:PHE:O	2.21	0.41
1:W:247:TRP:HB3	1:W:370:PHE:CE2	2.55	0.41
1:W:395:LEU:O	1:W:398:PHE:HD2	2.04	0.41
1:X:319:GLN:HB2	1:X:675:THR:HG22	2.03	0.41
1:Y:319:GLN:OE1	1:Y:675:THR:HG23	2.20	0.41
1:Y:339:THR:CB	1:Y:403:LEU:O	2.69	0.41
1:Z:339:THR:CG2	1:Z:404:ARG:HG3	2.49	0.41
1:b:319:GLN:O	1:b:674:SER:CA	2.69	0.41
1:d:395:LEU:O	1:d:398:PHE:HD2	2.04	0.41
1:d:612:TYR:CE1	1:d:727:GLY:CA	3.03	0.41
1:d:701:THR:O	1:d:701:THR:HG23	2.19	0.41
1:f:247:TRP:HZ2	1:f:318:ILE:CD1	2.33	0.41
1:f:319:GLN:O	1:f:674:SER:CA	2.69	0.41
1:f:339:THR:CG2	1:f:404:ARG:HG3	2.49	0.41
1:f:425:ALA:O	1:f:732:THR:HA	2.21	0.41
1:f:529:ASP:O	1:f:529:ASP:CG	2.62	0.41
1:g:235:MET:HE2	1:g:235:MET:HB3	1.75	0.41
1:g:273:PHE:HB3	1:g:381:ASN:HB3	2.03	0.41
1:g:319:GLN:HB2	1:g:675:THR:HG22	2.03	0.41
1:h:311:LEU:C	1:h:311:LEU:HD12	2.46	0.41
1:i:273:PHE:HB3	1:i:381:ASN:HB3	2.03	0.41
1:i:462:PHE:O	1:j:552:VAL:HG22	2.21	0.41
1:j:311:LEU:HD12	1:j:311:LEU:C	2.46	0.41
1:j:395:LEU:O	1:j:398:PHE:HD2	2.04	0.41
1:j:405:THR:O	1:l:222:GLY:O	2.37	0.41
1:l:319:GLN:OE1	1:l:675:THR:HG23	2.20	0.41
1:m:314:LYS:HG2	1:m:410:THR:CG2	2.46	0.41
1:m:565:ILE:CG2	1:m:729:ARG:NH1	2.83	0.41
1:o:319:GLN:HB2	1:o:675:THR:HG22	2.03	0.41
1:o:462:PHE:O	1:p:552:VAL:HG22	2.21	0.41
1:p:273:PHE:HB3	1:p:381:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:319:GLN:OE1	1:p:675:THR:HG23	2.20	0.41
1:r:311:LEU:C	1:r:311:LEU:HD12	2.46	0.41
1:s:319:GLN:O	1:s:674:SER:CA	2.69	0.41
1:u:222:GLY:O	1:2:405:THR:O	2.38	0.41
1:u:565:ILE:CG2	1:u:729:ARG:NH1	2.83	0.41
1:w:425:ALA:O	1:w:732:THR:HA	2.21	0.41
1:z:319:GLN:O	1:z:674:SER:CA	2.69	0.41
1:3:598:GLN:NE2	1:3:601:LEU:HD11	2.36	0.41
1:4:553:ASP:CG	1:4:554:ILE:N	2.78	0.41
1:5:529:ASP:O	1:5:529:ASP:CG	2.62	0.41
1:5:598:GLN:NE2	1:5:601:LEU:HD11	2.36	0.41
1:6:395:LEU:O	1:6:398:PHE:HD2	2.04	0.41
1:6:612:TYR:CE1	1:6:727:GLY:CA	3.03	0.41
1:6:653:VAL:HA	1:6:654:PRO:HD3	1.90	0.41
1:7:314:LYS:CG	1:7:410:THR:HG22	2.46	0.41
1:7:319:GLN:OE1	1:7:675:THR:HG23	2.20	0.41
1:A:526:HIS:HE1	1:A:561:ASP:OD2	2.04	0.41
1:B:247:TRP:HB3	1:B:370:PHE:CE2	2.55	0.41
1:D:319:GLN:HB2	1:D:675:THR:HG22	2.03	0.41
1:D:339:THR:CB	1:D:403:LEU:O	2.69	0.41
1:D:425:ALA:O	1:D:732:THR:HA	2.21	0.41
1:D:428:GLN:HE22	1:N:351:PRO:HB3	1.83	0.41
1:E:247:TRP:HZ2	1:E:318:ILE:CD1	2.33	0.41
1:E:425:ALA:O	1:E:732:THR:HA	2.21	0.41
1:E:529:ASP:O	1:E:529:ASP:CG	2.62	0.41
1:F:339:THR:HG22	1:F:404:ARG:HG2	2.02	0.41
1:F:612:TYR:CE1	1:F:727:GLY:CA	3.03	0.41
1:G:462:PHE:O	1:I:552:VAL:HG22	2.21	0.41
1:H:529:ASP:O	1:H:529:ASP:CG	2.62	0.41
1:H:612:TYR:CE1	1:H:727:GLY:CA	3.03	0.41
1:I:311:LEU:C	1:I:311:LEU:HD12	2.46	0.41
1:I:413:TYR:CD2	1:I:413:TYR:C	2.99	0.41
1:I:425:ALA:O	1:I:732:THR:HA	2.21	0.41
1:I:565:ILE:CG2	1:I:729:ARG:NH1	2.83	0.41
1:K:354:LEU:HD23	1:K:354:LEU:HA	1.61	0.41
1:L:235:MET:HB3	1:L:235:MET:HE2	1.74	0.41
1:L:311:LEU:HD12	1:L:311:LEU:C	2.46	0.41
1:L:339:THR:HG22	1:L:404:ARG:HG2	2.02	0.41
1:L:395:LEU:O	1:L:398:PHE:HD2	2.04	0.41
1:L:425:ALA:O	1:L:732:THR:HA	2.21	0.41
1:M:319:GLN:OE1	1:M:675:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:396:GLU:C	1:N:398:PHE:N	2.76	0.41
1:N:462:PHE:O	1:P:552:VAL:HG22	2.21	0.41
1:P:395:LEU:O	1:P:398:PHE:HD2	2.04	0.41
1:Q:322:GLU:HG3	1:Q:335:ASN:HB2	2.01	0.41
1:Q:701:THR:O	1:Q:701:THR:HG23	2.19	0.41
1:U:697:GLU:N	1:V:297:GLN:HE22	2.13	0.41
1:V:311:LEU:C	1:V:311:LEU:HD12	2.46	0.41
1:V:314:LYS:CG	1:V:410:THR:HG22	2.46	0.41
1:V:339:THR:CB	1:V:403:LEU:O	2.69	0.41
1:X:565:ILE:CG2	1:X:729:ARG:NH1	2.83	0.41
1:Y:311:LEU:C	1:Y:311:LEU:HD12	2.46	0.41
1:Y:526:HIS:HE1	1:Y:561:ASP:OD2	2.04	0.41
1:Z:326:ASN:HD22	1:a:329:THR:HB	1.85	0.41
1:Z:552:VAL:HG22	1:3:462:PHE:O	2.21	0.41
1:a:462:PHE:O	1:8:552:VAL:HG22	2.21	0.41
1:c:235:MET:HE2	1:c:235:MET:HB3	1.74	0.41
1:c:273:PHE:HB3	1:c:381:ASN:HB3	2.03	0.41
1:c:565:ILE:CG2	1:c:729:ARG:NH1	2.83	0.41
1:e:273:PHE:HB3	1:e:381:ASN:HB3	2.03	0.41
1:e:553:ASP:CG	1:e:554:ILE:N	2.78	0.41
1:f:395:LEU:O	1:f:398:PHE:HD2	2.04	0.41
1:g:339:THR:CG2	1:g:404:ARG:HG3	2.49	0.41
1:g:526:HIS:HE1	1:g:561:ASP:OD2	2.04	0.41
1:g:553:ASP:CG	1:g:554:ILE:N	2.78	0.41
1:g:609:ARG:HH21	1:g:609:ARG:CG	2.26	0.41
1:g:697:GLU:N	1:z:297:GLN:HE22	2.13	0.41
1:i:396:GLU:C	1:i:398:PHE:N	2.76	0.41
1:k:339:THR:CB	1:k:403:LEU:O	2.69	0.41
1:l:247:TRP:HB3	1:l:370:PHE:CE2	2.55	0.41
1:l:598:GLN:NE2	1:l:601:LEU:HD11	2.36	0.41
1:l:701:THR:O	1:l:701:THR:HG23	2.19	0.41
1:m:273:PHE:HB3	1:m:381:ASN:HB3	2.03	0.41
1:m:425:ALA:O	1:m:732:THR:HA	2.21	0.41
1:n:247:TRP:HB3	1:n:370:PHE:CE2	2.55	0.41
1:n:395:LEU:O	1:n:398:PHE:HD2	2.04	0.41
1:o:339:THR:CB	1:o:403:LEU:O	2.69	0.41
1:p:311:LEU:C	1:p:311:LEU:HD12	2.46	0.41
1:p:339:THR:CB	1:p:403:LEU:O	2.69	0.41
1:p:425:ALA:O	1:p:732:THR:HA	2.21	0.41
1:r:405:THR:O	1:x:222:GLY:O	2.38	0.41
1:s:526:HIS:HE1	1:s:561:ASP:OD2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:425:ALA:O	1:t:732:THR:HA	2.21	0.41
1:t:462:PHE:O	1:u:552:VAL:HG22	2.21	0.41
1:t:653:VAL:HA	1:t:654:PRO:HD3	1.90	0.41
1:u:311:LEU:C	1:u:311:LEU:HD12	2.46	0.41
1:u:413:TYR:CD2	1:u:413:TYR:C	2.99	0.41
1:u:425:ALA:O	1:u:732:THR:HA	2.21	0.41
1:v:526:HIS:HE1	1:v:561:ASP:OD2	2.04	0.41
1:x:322:GLU:HG3	1:x:335:ASN:HB2	2.01	0.41
1:x:354:LEU:HD23	1:x:354:LEU:HA	1.61	0.41
1:z:273:PHE:HB3	1:z:381:ASN:HB3	2.03	0.41
1:z:311:LEU:HD12	1:z:311:LEU:C	2.46	0.41
1:z:326:ASN:HD22	1:4:329:THR:HB	1.85	0.41
1:1:413:TYR:CD2	1:1:413:TYR:C	2.99	0.41
1:1:416:GLU:H	1:1:416:GLU:HG2	1.67	0.41
1:3:319:GLN:HB2	1:3:675:THR:HG22	2.03	0.41
1:4:339:THR:HG22	1:4:404:ARG:HG2	2.02	0.41
1:4:339:THR:CB	1:4:403:LEU:O	2.69	0.41
1:5:612:TYR:CE1	1:5:727:GLY:CA	3.03	0.41
1:7:311:LEU:C	1:7:311:LEU:HD12	2.46	0.41
1:7:529:ASP:O	1:7:529:ASP:CG	2.62	0.41
1:A:413:TYR:CD2	1:A:413:TYR:C	2.99	0.41
1:A:425:ALA:O	1:A:732:THR:HA	2.21	0.41
1:A:598:GLN:NE2	1:A:601:LEU:HD11	2.36	0.41
1:B:235:MET:HE2	1:B:235:MET:HB3	1.74	0.41
1:B:339:THR:CB	1:B:403:LEU:O	2.69	0.41
1:B:416:GLU:H	1:B:416:GLU:HG2	1.67	0.41
1:B:553:ASP:CG	1:B:554:ILE:N	2.78	0.41
1:B:598:GLN:NE2	1:B:601:LEU:HD11	2.36	0.41
1:C:354:LEU:HA	1:C:354:LEU:HD23	1.61	0.41
1:C:526:HIS:HE1	1:C:561:ASP:OD2	2.04	0.41
1:D:235:MET:HE2	1:D:235:MET:HB3	1.74	0.41
1:D:273:PHE:HB3	1:D:381:ASN:HB3	2.03	0.41
1:D:526:HIS:HE1	1:D:561:ASP:OD2	2.04	0.41
1:D:552:VAL:HG22	1:P:462:PHE:O	2.21	0.41
1:D:701:THR:O	1:D:701:THR:HG23	2.19	0.41
1:E:311:LEU:C	1:E:311:LEU:HD12	2.46	0.41
1:E:339:THR:CB	1:E:403:LEU:O	2.69	0.41
1:F:289:CYS:SG	1:F:362:LEU:O	2.70	0.41
1:F:311:LEU:C	1:F:311:LEU:HD12	2.46	0.41
1:F:552:VAL:HG22	1:Q:462:PHE:O	2.21	0.41
1:G:395:LEU:O	1:G:398:PHE:HD2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:416:GLU:H	1:G:416:GLU:HG2	1.67	0.41
1:H:311:LEU:C	1:H:311:LEU:HD12	2.46	0.41
1:H:326:ASN:HD22	1:Z:329:THR:HB	1.85	0.41
1:I:222:GLY:O	1:J:405:THR:O	2.38	0.41
1:I:339:THR:CB	1:I:403:LEU:O	2.69	0.41
1:J:273:PHE:HB3	1:J:381:ASN:HB3	2.03	0.41
1:J:319:GLN:O	1:J:674:SER:CA	2.69	0.41
1:J:319:GLN:OE1	1:J:675:THR:HG23	2.20	0.41
1:K:413:TYR:CD2	1:K:413:TYR:C	2.99	0.41
1:K:552:VAL:HG22	1:8:462:PHE:O	2.21	0.41
1:L:273:PHE:HB3	1:L:381:ASN:HB3	2.03	0.41
1:L:319:GLN:OE1	1:L:675:THR:HG23	2.20	0.41
1:L:354:LEU:HA	1:L:354:LEU:HD23	1.61	0.41
1:L:529:ASP:O	1:L:529:ASP:CG	2.62	0.41
1:M:273:PHE:HB3	1:M:381:ASN:HB3	2.03	0.41
1:M:319:GLN:HB2	1:M:675:THR:HG22	2.03	0.41
1:M:339:THR:HG22	1:M:404:ARG:HG2	2.02	0.41
1:M:552:VAL:HG22	1:b:462:PHE:O	2.21	0.41
1:M:598:GLN:NE2	1:M:601:LEU:HD11	2.36	0.41
1:O:247:TRP:HB3	1:O:370:PHE:CE2	2.55	0.41
1:O:425:ALA:O	1:O:732:THR:HA	2.21	0.41
1:O:526:HIS:HE1	1:O:561:ASP:OD2	2.04	0.41
1:O:598:GLN:NE2	1:O:601:LEU:HD11	2.36	0.41
1:P:319:GLN:HB2	1:P:675:THR:HG22	2.03	0.41
1:P:339:THR:HG22	1:P:404:ARG:HG2	2.02	0.41
1:P:413:TYR:CD2	1:P:413:TYR:C	2.99	0.41
1:P:526:HIS:HE1	1:P:561:ASP:OD2	2.04	0.41
1:Q:222:GLY:O	1:S:405:THR:O	2.38	0.41
1:S:319:GLN:HB2	1:S:675:THR:HG22	2.03	0.41
1:S:425:ALA:O	1:S:732:THR:HA	2.21	0.41
1:T:314:LYS:HG2	1:T:410:THR:CG2	2.46	0.41
1:T:319:GLN:HB2	1:T:675:THR:HG22	2.03	0.41
1:T:339:THR:HG22	1:T:404:ARG:HG2	2.02	0.41
1:T:425:ALA:O	1:T:732:THR:HA	2.21	0.41
1:T:598:GLN:NE2	1:T:601:LEU:HD11	2.36	0.41
1:U:526:HIS:HE1	1:U:561:ASP:OD2	2.04	0.41
1:U:565:ILE:CG2	1:U:729:ARG:NH1	2.83	0.41
1:V:462:PHE:O	1:e:552:VAL:HG22	2.21	0.41
1:W:273:PHE:HB3	1:W:381:ASN:HB3	2.03	0.41
1:W:609:ARG:HH21	1:W:609:ARG:CG	2.26	0.41
1:X:339:THR:CB	1:X:403:LEU:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:365:PHE:HA	1:X:366:PRO:HD3	1.95	0.41
1:X:598:GLN:NE2	1:X:601:LEU:HD11	2.36	0.41
1:Y:273:PHE:HB3	1:Y:381:ASN:HB3	2.03	0.41
1:Y:395:LEU:O	1:Y:398:PHE:HD2	2.04	0.41
1:Z:319:GLN:O	1:Z:674:SER:CA	2.69	0.41
1:Z:462:PHE:O	1:4:552:VAL:HG22	2.21	0.41
1:Z:609:ARG:HH21	1:Z:609:ARG:CG	2.26	0.41
1:a:247:TRP:HZ2	1:a:318:ILE:CD1	2.33	0.41
1:a:311:LEU:C	1:a:311:LEU:HD12	2.46	0.41
1:a:319:GLN:HB2	1:a:675:THR:HG22	2.03	0.41
1:b:395:LEU:O	1:b:398:PHE:HD2	2.04	0.41
1:b:396:GLU:C	1:b:398:PHE:N	2.76	0.41
1:c:552:VAL:HG22	1:p:462:PHE:O	2.21	0.41
1:c:553:ASP:CG	1:c:554:ILE:N	2.78	0.41
1:d:247:TRP:HB3	1:d:370:PHE:CE2	2.55	0.41
1:d:425:ALA:O	1:d:732:THR:HA	2.21	0.41
1:e:281:TYR:CB	1:e:647:LEU:HD13	2.48	0.41
1:e:565:ILE:CG2	1:e:729:ARG:NH1	2.83	0.41
1:f:396:GLU:C	1:f:398:PHE:N	2.76	0.41
1:g:326:ASN:HD22	1:k:329:THR:HB	1.85	0.41
1:g:395:LEU:O	1:g:398:PHE:HD2	2.04	0.41
1:g:413:TYR:CD2	1:g:413:TYR:C	2.99	0.41
1:g:612:TYR:O	1:g:615:GLY:N	2.52	0.41
1:h:273:PHE:HB3	1:h:381:ASN:HB3	2.03	0.41
1:h:319:GLN:HB2	1:h:675:THR:HG22	2.03	0.41
1:h:319:GLN:OE1	1:h:675:THR:HG23	2.20	0.41
1:h:339:THR:HG22	1:h:404:ARG:HG2	2.02	0.41
1:h:396:GLU:C	1:h:398:PHE:N	2.76	0.41
1:h:598:GLN:NE2	1:h:601:LEU:HD11	2.36	0.41
1:j:339:THR:HG22	1:j:404:ARG:HG2	2.02	0.41
1:j:413:TYR:CD2	1:j:413:TYR:C	2.99	0.41
1:j:462:PHE:O	1:k:552:VAL:HG22	2.21	0.41
1:j:526:HIS:HE1	1:j:561:ASP:OD2	2.04	0.41
1:k:273:PHE:HB3	1:k:381:ASN:HB3	2.03	0.41
1:k:319:GLN:HB2	1:k:675:THR:HG22	2.03	0.41
1:k:425:ALA:O	1:k:732:THR:HA	2.21	0.41
1:k:701:THR:O	1:k:701:THR:HG23	2.19	0.41
1:l:425:ALA:O	1:l:732:THR:HA	2.21	0.41
1:l:526:HIS:HE1	1:l:561:ASP:OD2	2.04	0.41
1:m:242:THR:CG2	1:m:681:GLU:CG	2.81	0.41
1:m:339:THR:HG22	1:m:404:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:339:THR:CB	1:n:403:LEU:O	2.69	0.41
1:n:425:ALA:O	1:n:732:THR:HA	2.21	0.41
1:n:701:THR:O	1:n:701:THR:HG23	2.19	0.41
1:o:425:ALA:O	1:o:732:THR:HA	2.21	0.41
1:q:235:MET:HE2	1:q:235:MET:HB3	1.74	0.41
1:r:425:ALA:O	1:r:732:THR:HA	2.21	0.41
1:s:565:ILE:CG2	1:s:729:ARG:NH1	2.83	0.41
1:t:319:GLN:HB2	1:t:675:THR:HG22	2.03	0.41
1:u:339:THR:CB	1:u:403:LEU:O	2.69	0.41
1:v:339:THR:CB	1:v:403:LEU:O	2.69	0.41
1:v:413:TYR:CD2	1:v:413:TYR:C	2.99	0.41
1:v:425:ALA:O	1:v:732:THR:HA	2.21	0.41
1:v:598:GLN:NE2	1:v:601:LEU:HD11	2.36	0.41
1:w:247:TRP:HZ2	1:w:318:ILE:CD1	2.33	0.41
1:w:311:LEU:C	1:w:311:LEU:HD12	2.46	0.41
1:w:339:THR:CB	1:w:403:LEU:O	2.69	0.41
1:w:395:LEU:O	1:w:398:PHE:HD2	2.04	0.41
1:w:529:ASP:O	1:w:529:ASP:CG	2.62	0.41
1:x:462:PHE:O	1:y:552:VAL:HG22	2.21	0.41
1:x:701:THR:O	1:x:701:THR:HG23	2.19	0.41
1:y:311:LEU:C	1:y:311:LEU:HD12	2.46	0.41
1:y:339:THR:HG22	1:y:404:ARG:HG2	2.02	0.41
1:y:425:ALA:O	1:y:732:THR:HA	2.21	0.41
1:y:612:TYR:CE1	1:y:727:GLY:CA	3.03	0.41
1:z:339:THR:HG22	1:z:404:ARG:HG2	2.02	0.41
1:z:395:LEU:O	1:z:398:PHE:HD2	2.04	0.41
1:z:425:ALA:O	1:z:732:THR:HA	2.21	0.41
1:1:247:TRP:HB3	1:1:370:PHE:CE2	2.55	0.41
1:1:339:THR:CB	1:1:403:LEU:O	2.69	0.41
1:1:553:ASP:CG	1:1:554:ILE:N	2.78	0.41
1:1:598:GLN:NE2	1:1:601:LEU:HD11	2.36	0.41
1:1:612:TYR:O	1:1:615:GLY:N	2.52	0.41
1:2:273:PHE:HB3	1:2:381:ASN:HB3	2.03	0.41
1:2:319:GLN:O	1:2:674:SER:CA	2.69	0.41
1:3:247:TRP:HZ2	1:3:318:ILE:CD1	2.33	0.41
1:3:311:LEU:C	1:3:311:LEU:HD12	2.46	0.41
1:3:329:THR:HB	1:8:326:ASN:HD22	1.85	0.41
1:3:413:TYR:CD2	1:3:413:TYR:C	2.99	0.41
1:4:319:GLN:OE1	1:4:675:THR:HG23	2.20	0.41
1:4:395:LEU:O	1:4:398:PHE:HD2	2.04	0.41
1:4:413:TYR:CD2	1:4:413:TYR:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:311:LEU:HD12	1:5:311:LEU:C	2.46	0.41
1:5:395:LEU:O	1:5:398:PHE:HD2	2.04	0.41
1:6:247:TRP:HB3	1:6:370:PHE:CE2	2.55	0.41
1:6:273:PHE:HB3	1:6:381:ASN:HB3	2.03	0.41
1:6:339:THR:CB	1:6:403:LEU:O	2.69	0.41
1:6:462:PHE:O	1:7:552:VAL:HG22	2.21	0.41
1:7:273:PHE:HB3	1:7:381:ASN:HB3	2.03	0.41
1:7:395:LEU:O	1:7:398:PHE:HD2	2.04	0.41
1:7:425:ALA:O	1:7:732:THR:HA	2.21	0.41
1:7:526:HIS:HE1	1:7:561:ASP:OD2	2.04	0.41
1:8:319:GLN:OE1	1:8:675:THR:HG23	2.20	0.41
1:8:526:HIS:HE1	1:8:561:ASP:OD2	2.04	0.41
1:A:339:THR:CB	1:A:403:LEU:O	2.69	0.41
1:B:612:TYR:O	1:B:615:GLY:N	2.52	0.41
1:C:326:ASN:HD22	1:D:329:THR:HB	1.85	0.41
1:C:413:TYR:CD2	1:C:413:TYR:C	2.99	0.41
1:C:612:TYR:O	1:C:615:GLY:N	2.52	0.41
1:D:598:GLN:NE2	1:D:601:LEU:HD11	2.36	0.41
1:E:395:LEU:O	1:E:398:PHE:HD2	2.04	0.41
1:F:425:ALA:O	1:F:732:THR:HA	2.21	0.41
1:H:395:LEU:O	1:H:398:PHE:HD2	2.04	0.41
1:N:413:TYR:CD2	1:N:413:TYR:C	2.99	0.41
1:O:311:LEU:C	1:O:311:LEU:HD12	2.46	0.41
1:T:311:LEU:HD12	1:T:311:LEU:C	2.46	0.41
1:T:395:LEU:O	1:T:398:PHE:HD2	2.04	0.41
1:V:413:TYR:CD2	1:V:413:TYR:C	2.99	0.41
1:W:339:THR:CB	1:W:403:LEU:O	2.69	0.41
1:W:462:PHE:O	1:Y:552:VAL:HG22	2.21	0.41
1:X:311:LEU:HD12	1:X:311:LEU:C	2.46	0.41
1:X:425:ALA:O	1:X:732:THR:HA	2.21	0.41
1:Y:339:THR:CG2	1:Y:404:ARG:HG3	2.49	0.41
1:Y:565:ILE:CG2	1:Y:729:ARG:NH1	2.83	0.41
1:Y:580:SER:CA	1:Y:592:THR:HG22	2.46	0.41
1:Z:526:HIS:HE1	1:Z:561:ASP:OD2	2.04	0.41
1:a:247:TRP:HB3	1:a:370:PHE:CE2	2.55	0.41
1:a:413:TYR:CD2	1:a:413:TYR:C	2.99	0.41
1:b:413:TYR:CD2	1:b:413:TYR:C	2.99	0.41
1:c:314:LYS:CG	1:c:410:THR:HG22	2.46	0.41
1:c:354:LEU:HA	1:c:354:LEU:HD23	1.61	0.41
1:c:526:HIS:HE1	1:c:561:ASP:OD2	2.04	0.41
1:d:311:LEU:HD12	1:d:311:LEU:C	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:339:THR:CB	1:d:403:LEU:O	2.69	0.41
1:e:526:HIS:HE1	1:e:561:ASP:OD2	2.04	0.41
1:f:462:PHE:O	1:h:552:VAL:HG22	2.21	0.41
1:i:413:TYR:CD2	1:i:413:TYR:C	2.99	0.41
1:j:281:TYR:CB	1:j:647:LEU:HD13	2.48	0.41
1:j:319:GLN:HB2	1:j:675:THR:HG22	2.03	0.41
1:k:526:HIS:HE1	1:k:561:ASP:OD2	2.04	0.41
1:l:311:LEU:C	1:l:311:LEU:HD12	2.46	0.41
1:m:319:GLN:HB2	1:m:675:THR:HG22	2.03	0.41
1:n:311:LEU:HD12	1:n:311:LEU:C	2.46	0.41
1:n:326:ASN:HD22	1:r:329:THR:HB	1.85	0.41
1:p:319:GLN:O	1:p:674:SER:CA	2.69	0.41
1:p:322:GLU:HG3	1:p:335:ASN:HB2	2.01	0.41
1:q:281:TYR:CB	1:q:647:LEU:HD13	2.48	0.41
1:q:319:GLN:HB2	1:q:675:THR:HG22	2.03	0.41
1:r:319:GLN:O	1:r:674:SER:CA	2.69	0.41
1:r:339:THR:CB	1:r:403:LEU:O	2.69	0.41
1:r:416:GLU:H	1:r:416:GLU:HG2	1.67	0.41
1:t:395:LEU:O	1:t:398:PHE:HD2	2.04	0.41
1:w:273:PHE:HB3	1:w:381:ASN:HB3	2.03	0.41
1:w:701:THR:O	1:w:701:THR:HG23	2.19	0.41
1:z:235:MET:HB3	1:z:235:MET:HE2	1.74	0.41
1:z:319:GLN:OE1	1:z:675:THR:HG23	2.20	0.41
1:z:351:PRO:HB3	1:2:428:GLN:HE22	1.83	0.41
1:1:339:THR:CG2	1:1:404:ARG:HG3	2.49	0.41
1:2:319:GLN:OE1	1:2:675:THR:HG23	2.20	0.41
1:2:339:THR:HG22	1:2:404:ARG:HG2	2.02	0.41
1:3:273:PHE:HB3	1:3:381:ASN:HB3	2.03	0.41
1:5:326:ASN:HD22	1:8:329:THR:HB	1.85	0.41
1:7:565:ILE:CG2	1:7:729:ARG:NH1	2.83	0.41
1:7:598:GLN:NE2	1:7:601:LEU:HD11	2.36	0.41
1:8:319:GLN:O	1:8:674:SER:CA	2.69	0.41
1:B:311:LEU:C	1:B:311:LEU:HD12	2.46	0.40
1:C:395:LEU:O	1:C:398:PHE:HD2	2.04	0.40
1:C:609:ARG:HH21	1:C:609:ARG:CG	2.26	0.40
1:F:339:THR:CB	1:F:403:LEU:O	2.69	0.40
1:G:319:GLN:O	1:G:674:SER:CA	2.69	0.40
1:H:273:PHE:HB3	1:H:381:ASN:HB3	2.03	0.40
1:J:339:THR:HG22	1:J:404:ARG:HG2	2.02	0.40
1:K:319:GLN:OE1	1:K:675:THR:HG23	2.20	0.40
1:K:395:LEU:O	1:K:398:PHE:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:598:GLN:NE2	1:L:601:LEU:HD11	2.36	0.40
1:N:319:GLN:HB2	1:N:675:THR:HG22	2.03	0.40
1:N:526:HIS:HE1	1:N:561:ASP:OD2	2.04	0.40
1:O:395:LEU:O	1:O:398:PHE:HD2	2.04	0.40
1:Q:314:LYS:CG	1:Q:410:THR:HG22	2.46	0.40
1:R:281:TYR:CB	1:R:647:LEU:HD13	2.48	0.40
1:R:319:GLN:HB2	1:R:675:THR:HG22	2.03	0.40
1:R:395:LEU:O	1:R:398:PHE:HD2	2.04	0.40
1:R:598:GLN:NE2	1:R:601:LEU:HD11	2.36	0.40
1:S:319:GLN:O	1:S:674:SER:CA	2.69	0.40
1:S:339:THR:CB	1:S:403:LEU:O	2.69	0.40
1:T:319:GLN:O	1:T:674:SER:CA	2.69	0.40
1:T:339:THR:CB	1:T:403:LEU:O	2.69	0.40
1:U:247:TRP:HZ2	1:U:318:ILE:CD1	2.33	0.40
1:U:469:ASP:OD1	1:U:469:ASP:N	2.39	0.40
1:V:319:GLN:O	1:V:674:SER:CA	2.69	0.40
1:X:319:GLN:O	1:X:674:SER:CA	2.69	0.40
1:Y:425:ALA:O	1:Y:732:THR:HA	2.21	0.40
1:Y:598:GLN:NE2	1:Y:601:LEU:HD11	2.36	0.40
1:Z:319:GLN:OE1	1:Z:675:THR:HG23	2.20	0.40
1:a:273:PHE:HB3	1:a:381:ASN:HB3	2.03	0.40
1:b:311:LEU:HD12	1:b:311:LEU:C	2.46	0.40
1:b:526:HIS:HE1	1:b:561:ASP:OD2	2.04	0.40
1:c:247:TRP:HB3	1:c:370:PHE:CE2	2.55	0.40
1:d:462:PHE:O	1:l:552:VAL:HG22	2.21	0.40
1:f:311:LEU:HD12	1:f:311:LEU:C	2.46	0.40
1:f:413:TYR:CD2	1:f:413:TYR:C	2.99	0.40
1:g:354:LEU:HA	1:g:354:LEU:HD23	1.61	0.40
1:g:598:GLN:NE2	1:g:601:LEU:HD11	2.36	0.40
1:k:598:GLN:NE2	1:k:601:LEU:HD11	2.36	0.40
1:m:311:LEU:HD12	1:m:311:LEU:C	2.46	0.40
1:m:319:GLN:O	1:m:674:SER:CA	2.69	0.40
1:m:395:LEU:O	1:m:398:PHE:HD2	2.04	0.40
1:m:598:GLN:NE2	1:m:601:LEU:HD11	2.36	0.40
1:o:311:LEU:HD12	1:o:311:LEU:C	2.46	0.40
1:o:319:GLN:O	1:o:674:SER:CA	2.69	0.40
1:o:319:GLN:OE1	1:o:675:THR:HG23	2.20	0.40
1:o:365:PHE:HA	1:o:366:PRO:HD3	1.95	0.40
1:o:598:GLN:NE2	1:o:601:LEU:HD11	2.36	0.40
1:p:413:TYR:CD2	1:p:413:TYR:C	2.99	0.40
1:q:462:PHE:O	1:r:552:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:413:TYR:CD2	1:s:413:TYR:C	2.99	0.40
1:t:319:GLN:O	1:t:674:SER:CA	2.69	0.40
1:t:339:THR:CB	1:t:403:LEU:O	2.69	0.40
1:u:281:TYR:CB	1:u:647:LEU:HD13	2.48	0.40
1:v:319:GLN:HB2	1:v:675:THR:HG22	2.03	0.40
1:w:598:GLN:NE2	1:w:601:LEU:HD11	2.36	0.40
1:x:319:GLN:HB2	1:x:675:THR:HG22	2.03	0.40
1:x:425:ALA:O	1:x:732:THR:HA	2.21	0.40
1:2:598:GLN:NE2	1:2:601:LEU:HD11	2.36	0.40
1:3:247:TRP:HB3	1:3:370:PHE:CE2	2.55	0.40
1:3:435:ASN:HA	1:3:436:PRO:HD3	1.97	0.40
1:4:319:GLN:HB2	1:4:675:THR:HG22	2.03	0.40
1:7:339:THR:CG2	1:7:404:ARG:HG3	2.49	0.40
1:A:319:GLN:HB2	1:A:675:THR:HG22	2.03	0.40
1:A:319:GLN:O	1:A:674:SER:CA	2.69	0.40
1:B:339:THR:CG2	1:B:404:ARG:HG3	2.49	0.40
1:D:311:LEU:HD12	1:D:311:LEU:C	2.46	0.40
1:E:273:PHE:HB3	1:E:381:ASN:HB3	2.03	0.40
1:E:598:GLN:NE2	1:E:601:LEU:HD11	2.36	0.40
1:E:701:THR:O	1:E:701:THR:HG23	2.19	0.40
1:G:339:THR:CB	1:G:403:LEU:O	2.69	0.40
1:H:319:GLN:HB2	1:H:675:THR:HG22	2.03	0.40
1:H:339:THR:CB	1:H:403:LEU:O	2.69	0.40
1:H:425:ALA:O	1:H:732:THR:HA	2.21	0.40
1:I:319:GLN:O	1:I:674:SER:CA	2.69	0.40
1:J:598:GLN:NE2	1:J:601:LEU:HD11	2.36	0.40
1:K:311:LEU:C	1:K:311:LEU:HD12	2.46	0.40
1:K:319:GLN:HB2	1:K:675:THR:HG22	2.03	0.40
1:K:413:TYR:HE2	1:K:415:PHE:CD1	2.40	0.40
1:K:701:THR:O	1:K:701:THR:HG23	2.19	0.40
1:L:314:LYS:CG	1:L:410:THR:HG22	2.46	0.40
1:N:425:ALA:O	1:N:732:THR:HA	2.21	0.40
1:O:552:VAL:HG22	1:n:462:PHE:O	2.21	0.40
1:Q:319:GLN:HB2	1:Q:675:THR:HG22	2.03	0.40
1:R:462:PHE:O	1:S:552:VAL:HG22	2.21	0.40
1:S:314:LYS:CG	1:S:410:THR:HG22	2.46	0.40
1:S:329:THR:HB	1:d:326:ASN:HD22	1.85	0.40
1:T:653:VAL:HA	1:T:654:PRO:HD3	1.90	0.40
1:U:413:TYR:CD2	1:U:413:TYR:C	2.99	0.40
1:V:322:GLU:HG3	1:V:335:ASN:HB2	2.01	0.40
1:X:319:GLN:OE1	1:X:675:THR:HG23	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:413:TYR:HE2	1:a:415:PHE:CD1	2.40	0.40
1:a:425:ALA:O	1:a:732:THR:HA	2.21	0.40
1:e:247:TRP:HB3	1:e:370:PHE:CE2	2.55	0.40
1:e:697:GLU:N	1:f:297:GLN:HE22	2.13	0.40
1:f:526:HIS:HE1	1:f:561:ASP:OD2	2.04	0.40
1:h:339:THR:CB	1:h:403:LEU:O	2.69	0.40
1:h:425:ALA:O	1:h:732:THR:HA	2.21	0.40
1:i:288:HIS:HE1	1:i:361:CYS:SG	2.45	0.40
1:i:319:GLN:HB2	1:i:675:THR:HG22	2.03	0.40
1:i:526:HIS:HE1	1:i:561:ASP:OD2	2.04	0.40
1:k:311:LEU:HD12	1:k:311:LEU:C	2.46	0.40
1:l:395:LEU:O	1:l:398:PHE:HD2	2.04	0.40
1:m:339:THR:CB	1:m:403:LEU:O	2.69	0.40
1:m:697:GLU:N	1:r:297:GLN:HE22	2.13	0.40
1:q:329:THR:HB	1:y:326:ASN:HD22	1.85	0.40
1:q:395:LEU:O	1:q:398:PHE:HD2	2.04	0.40
1:r:435:ASN:HA	1:r:436:PRO:HD3	1.97	0.40
1:s:469:ASP:OD1	1:s:469:ASP:N	2.39	0.40
1:t:416:GLU:H	1:t:416:GLU:HG2	1.67	0.40
1:v:319:GLN:O	1:v:674:SER:CA	2.69	0.40
1:v:395:LEU:O	1:v:398:PHE:HD2	2.04	0.40
1:y:289:CYS:SG	1:y:362:LEU:O	2.70	0.40
1:y:339:THR:CB	1:y:403:LEU:O	2.69	0.40
1:z:598:GLN:NE2	1:z:601:LEU:HD11	2.36	0.40
1:1:311:LEU:C	1:1:311:LEU:HD12	2.46	0.40
1:2:339:THR:CB	1:2:403:LEU:O	2.69	0.40
1:3:319:GLN:O	1:3:674:SER:CA	2.69	0.40
1:4:311:LEU:HD12	1:4:311:LEU:C	2.46	0.40
1:4:413:TYR:HE2	1:4:415:PHE:CD1	2.40	0.40
1:5:273:PHE:HB3	1:5:381:ASN:HB3	2.03	0.40
1:8:273:PHE:HB3	1:8:381:ASN:HB3	2.03	0.40
1:A:589:GLN:HA	1:G:496:ASN:ND2	2.37	0.40
1:B:273:PHE:HB3	1:B:381:ASN:HB3	2.03	0.40
1:B:413:TYR:HE2	1:B:415:PHE:CD1	2.40	0.40
1:C:339:THR:CB	1:C:403:LEU:O	2.69	0.40
1:C:598:GLN:NE2	1:C:601:LEU:HD11	2.36	0.40
1:E:413:TYR:HE2	1:E:415:PHE:CD1	2.40	0.40
1:F:319:GLN:O	1:F:674:SER:CA	2.69	0.40
1:G:396:GLU:C	1:G:398:PHE:N	2.76	0.40
1:H:552:VAL:HG22	1:Y:462:PHE:O	2.21	0.40
1:I:281:TYR:CB	1:I:647:LEU:HD13	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:339:THR:CB	1:J:403:LEU:O	2.69	0.40
1:J:428:GLN:HE22	1:L:351:PRO:HB3	1.83	0.40
1:K:351:PRO:HB3	1:8:428:GLN:HE22	1.83	0.40
1:K:526:HIS:HE1	1:K:561:ASP:OD2	2.04	0.40
1:L:339:THR:CB	1:L:403:LEU:O	2.69	0.40
1:M:339:THR:CB	1:M:403:LEU:O	2.69	0.40
1:M:425:ALA:O	1:M:732:THR:HA	2.21	0.40
1:N:288:HIS:HE1	1:N:361:CYS:SG	2.45	0.40
1:P:281:TYR:CB	1:P:647:LEU:HD13	2.48	0.40
1:Q:311:LEU:C	1:Q:311:LEU:HD12	2.46	0.40
1:Q:425:ALA:O	1:Q:732:THR:HA	2.21	0.40
1:R:413:TYR:HE2	1:R:415:PHE:CD1	2.40	0.40
1:T:413:TYR:HE2	1:T:415:PHE:CD1	2.40	0.40
1:U:339:THR:CB	1:U:403:LEU:O	2.69	0.40
1:V:656:ASN:HA	1:V:657:PRO:HD3	1.97	0.40
1:W:319:GLN:HB2	1:W:675:THR:HG22	2.03	0.40
1:W:413:TYR:HE2	1:W:415:PHE:CD1	2.40	0.40
1:X:395:LEU:O	1:X:398:PHE:HD2	2.04	0.40
1:Y:319:GLN:O	1:Y:674:SER:CA	2.69	0.40
1:Z:273:PHE:HB3	1:Z:381:ASN:HB3	2.03	0.40
1:a:288:HIS:HE1	1:a:361:CYS:SG	2.45	0.40
1:a:319:GLN:O	1:a:674:SER:CA	2.69	0.40
1:c:339:THR:CB	1:c:403:LEU:O	2.69	0.40
1:c:425:ALA:O	1:c:732:THR:HA	2.21	0.40
1:d:247:TRP:HZ2	1:d:318:ILE:CD1	2.33	0.40
1:e:339:THR:CB	1:e:403:LEU:O	2.69	0.40
1:e:395:LEU:O	1:e:398:PHE:HD2	2.04	0.40
1:f:435:ASN:HA	1:f:436:PRO:HD3	1.97	0.40
1:g:339:THR:HG22	1:g:404:ARG:HG2	2.02	0.40
1:j:339:THR:CB	1:j:403:LEU:O	2.69	0.40
1:j:598:GLN:NE2	1:j:601:LEU:HD11	2.36	0.40
1:j:653:VAL:HA	1:j:654:PRO:HD3	1.90	0.40
1:k:413:TYR:CD2	1:k:413:TYR:C	2.99	0.40
1:l:339:THR:CB	1:l:403:LEU:O	2.69	0.40
1:m:413:TYR:HE2	1:m:415:PHE:CD1	2.40	0.40
1:m:612:TYR:O	1:m:615:GLY:N	2.52	0.40
1:p:526:HIS:HE1	1:p:561:ASP:OD2	2.04	0.40
1:q:378:LEU:HG	1:s:436:PRO:HG3	2.04	0.40
1:q:413:TYR:HE2	1:q:415:PHE:CD1	2.40	0.40
1:q:598:GLN:NE2	1:q:601:LEU:HD11	2.36	0.40
1:r:314:LYS:CG	1:r:410:THR:HG22	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:247:TRP:HZ2	1:s:318:ILE:CD1	2.33	0.40
1:t:288:HIS:HE1	1:t:361:CYS:SG	2.45	0.40
1:t:351:PRO:HB3	1:v:428:GLN:HE22	1.83	0.40
1:t:526:HIS:HE1	1:t:561:ASP:OD2	2.04	0.40
1:u:319:GLN:O	1:u:674:SER:CA	2.69	0.40
1:v:416:GLU:H	1:v:416:GLU:HG2	1.67	0.40
1:w:413:TYR:HE2	1:w:415:PHE:CD1	2.40	0.40
1:x:311:LEU:C	1:x:311:LEU:HD12	2.46	0.40
1:x:314:LYS:CG	1:x:410:THR:HG22	2.46	0.40
1:y:319:GLN:O	1:y:674:SER:CA	2.69	0.40
1:z:339:THR:CB	1:z:403:LEU:O	2.69	0.40
1:1:395:LEU:O	1:1:398:PHE:HD2	2.04	0.40
1:1:413:TYR:HE2	1:1:415:PHE:CD1	2.40	0.40
1:1:462:PHE:O	1:2:552:VAL:HG22	2.21	0.40
1:3:413:TYR:HE2	1:3:415:PHE:CD1	2.40	0.40
1:3:552:VAL:HG22	1:4:462:PHE:O	2.21	0.40
1:4:526:HIS:HE1	1:4:561:ASP:OD2	2.04	0.40
1:4:701:THR:O	1:4:701:THR:HG23	2.19	0.40
1:5:339:THR:CB	1:5:403:LEU:O	2.69	0.40
1:5:425:ALA:O	1:5:732:THR:HA	2.21	0.40
1:5:526:HIS:HE1	1:5:561:ASP:OD2	2.04	0.40
1:6:413:TYR:HE2	1:6:415:PHE:CD1	2.40	0.40
1:6:526:HIS:HE1	1:6:561:ASP:OD2	2.04	0.40
1:7:580:SER:CA	1:7:592:THR:HG22	2.46	0.40
1:A:395:LEU:O	1:A:398:PHE:HD2	2.04	0.40
1:B:288:HIS:HE1	1:B:361:CYS:SG	2.45	0.40
1:B:395:LEU:O	1:B:398:PHE:HD2	2.04	0.40
1:B:462:PHE:O	1:J:552:VAL:HG22	2.21	0.40
1:C:288:HIS:HE1	1:C:361:CYS:SG	2.45	0.40
1:C:413:TYR:HE2	1:C:415:PHE:CD1	2.40	0.40
1:D:413:TYR:CD2	1:D:413:TYR:C	2.99	0.40
1:F:326:ASN:HD22	1:R:329:THR:HB	1.85	0.40
1:F:526:HIS:HE1	1:F:561:ASP:OD2	2.04	0.40
1:F:529:ASP:O	1:F:529:ASP:CG	2.62	0.40
1:G:288:HIS:HE1	1:G:361:CYS:SG	2.45	0.40
1:H:314:LYS:CG	1:H:410:THR:HG22	2.46	0.40
1:H:526:HIS:HE1	1:H:561:ASP:OD2	2.04	0.40
1:J:462:PHE:O	1:L:552:VAL:HG22	2.21	0.40
1:K:319:GLN:O	1:K:674:SER:CA	2.69	0.40
1:M:413:TYR:HE2	1:M:415:PHE:CD1	2.40	0.40
1:N:339:THR:HG22	1:N:404:ARG:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:TYR:HE2	1:N:415:PHE:CD1	2.40	0.40
1:O:339:THR:CB	1:O:403:LEU:O	2.69	0.40
1:P:288:HIS:HE1	1:P:361:CYS:SG	2.45	0.40
1:P:339:THR:CB	1:P:403:LEU:O	2.69	0.40
1:R:378:LEU:HG	1:U:436:PRO:HG3	2.04	0.40
1:S:297:GLN:HE22	1:T:697:GLU:N	2.13	0.40
1:T:242:THR:CG2	1:T:681:GLU:CG	2.81	0.40
1:T:413:TYR:CD2	1:T:413:TYR:C	2.99	0.40
1:U:425:ALA:O	1:U:732:THR:HA	2.21	0.40
1:V:526:HIS:HE1	1:V:561:ASP:OD2	2.04	0.40
1:Z:428:GLN:HE22	1:4:351:PRO:HB3	1.83	0.40
1:a:435:ASN:HA	1:a:436:PRO:HD3	1.97	0.40
1:b:289:CYS:SG	1:b:362:LEU:O	2.70	0.40
1:c:288:HIS:HE1	1:c:361:CYS:SG	2.45	0.40
1:c:395:LEU:O	1:c:398:PHE:HD2	2.04	0.40
1:d:413:TYR:CD2	1:d:413:TYR:C	2.99	0.40
1:d:526:HIS:HE1	1:d:561:ASP:OD2	2.04	0.40
1:e:288:HIS:HE1	1:e:361:CYS:SG	2.45	0.40
1:e:425:ALA:O	1:e:732:THR:HA	2.21	0.40
1:e:598:GLN:NE2	1:e:601:LEU:HD11	2.36	0.40
1:f:339:THR:HG22	1:f:404:ARG:HG2	2.02	0.40
1:g:297:GLN:HE22	1:z:697:GLU:N	2.13	0.40
1:g:339:THR:CB	1:g:403:LEU:O	2.69	0.40
1:g:413:TYR:HE2	1:g:415:PHE:CD1	2.40	0.40
1:h:413:TYR:HE2	1:h:415:PHE:CD1	2.40	0.40
1:i:339:THR:CB	1:i:403:LEU:O	2.69	0.40
1:i:425:ALA:O	1:i:732:THR:HA	2.21	0.40
1:i:428:GLN:HE22	1:j:351:PRO:HB3	1.83	0.40
1:i:552:VAL:HG22	1:k:462:PHE:O	2.21	0.40
1:i:598:GLN:NE2	1:i:601:LEU:HD11	2.36	0.40
1:j:288:HIS:HE1	1:j:361:CYS:SG	2.45	0.40
1:m:413:TYR:CD2	1:m:413:TYR:C	2.99	0.40
1:n:247:TRP:HZ2	1:n:318:ILE:CD1	2.33	0.40
1:n:413:TYR:CD2	1:n:413:TYR:C	2.99	0.40
1:n:526:HIS:HE1	1:n:561:ASP:OD2	2.04	0.40
1:q:311:LEU:HD12	1:q:311:LEU:C	2.46	0.40
1:s:339:THR:CB	1:s:403:LEU:O	2.69	0.40
1:s:425:ALA:O	1:s:732:THR:HA	2.21	0.40
1:t:413:TYR:CD2	1:t:413:TYR:C	2.99	0.40
1:t:496:ASN:ND2	1:v:589:GLN:HA	2.37	0.40
1:w:526:HIS:HE1	1:w:561:ASP:OD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:339:THR:CB	1:x:403:LEU:O	2.69	0.40
1:x:526:HIS:HE1	1:x:561:ASP:OD2	2.04	0.40
1:y:319:GLN:HB2	1:y:675:THR:HG22	2.03	0.40
1:y:609:ARG:HH21	1:y:609:ARG:CG	2.26	0.40
1:z:314:LYS:CG	1:z:410:THR:HG22	2.46	0.40
1:1:288:HIS:HE1	1:1:361:CYS:SG	2.45	0.40
1:1:526:HIS:HE1	1:1:561:ASP:OD2	2.04	0.40
1:3:288:HIS:HE1	1:3:361:CYS:SG	2.45	0.40
1:3:425:ALA:O	1:3:732:THR:HA	2.21	0.40
1:5:319:GLN:HB2	1:5:675:THR:HG22	2.03	0.40
1:5:413:TYR:HE2	1:5:415:PHE:CD1	2.40	0.40
1:5:496:ASN:ND2	1:7:589:GLN:HA	2.37	0.40
1:5:552:VAL:HG22	1:7:462:PHE:O	2.21	0.40
1:6:319:GLN:HB2	1:6:675:THR:HG22	2.03	0.40
1:7:319:GLN:O	1:7:674:SER:CA	2.69	0.40
1:A:413:TYR:HE2	1:A:415:PHE:CD1	2.40	0.40
1:B:378:LEU:HG	1:L:436:PRO:HG3	2.04	0.40
1:B:526:HIS:HE1	1:B:561:ASP:OD2	2.04	0.40
1:D:378:LEU:HG	1:P:436:PRO:HG3	2.04	0.40
1:D:462:PHE:O	1:N:552:VAL:HG22	2.21	0.40
1:E:526:HIS:HE1	1:E:561:ASP:OD2	2.04	0.40
1:F:288:HIS:HE1	1:F:361:CYS:SG	2.45	0.40
1:F:413:TYR:CD2	1:F:413:TYR:C	2.99	0.40
1:G:314:LYS:CG	1:G:410:THR:HG22	2.46	0.40
1:G:413:TYR:CD2	1:G:413:TYR:C	2.99	0.40
1:G:526:HIS:HE1	1:G:561:ASP:OD2	2.04	0.40
1:H:413:TYR:HE2	1:H:415:PHE:CD1	2.40	0.40
1:H:496:ASN:ND2	1:Y:589:GLN:HA	2.37	0.40
1:H:589:GLN:HA	1:W:496:ASN:ND2	2.37	0.40
1:J:311:LEU:HD12	1:J:311:LEU:C	2.46	0.40
1:K:462:PHE:O	1:a:552:VAL:HG22	2.21	0.40
1:L:319:GLN:HB2	1:L:675:THR:HG22	2.03	0.40
1:N:339:THR:CB	1:N:403:LEU:O	2.69	0.40
1:O:436:PRO:HG3	1:m:378:LEU:HG	2.04	0.40
1:O:496:ASN:ND2	1:n:589:GLN:HA	2.37	0.40
1:P:273:PHE:HB3	1:P:381:ASN:HB3	2.03	0.40
1:P:598:GLN:NE2	1:P:601:LEU:HD11	2.36	0.40
1:P:653:VAL:HA	1:P:654:PRO:HD3	1.90	0.40
1:Q:288:HIS:HE1	1:Q:361:CYS:SG	2.45	0.40
1:Q:339:THR:CB	1:Q:403:LEU:O	2.69	0.40
1:Q:526:HIS:HE1	1:Q:561:ASP:OD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:598:GLN:NE2	1:Q:601:LEU:HD11	2.36	0.40
1:S:413:TYR:CD2	1:S:413:TYR:C	2.99	0.40
1:S:436:PRO:HG3	1:U:378:LEU:HG	2.04	0.40
1:T:378:LEU:HG	1:l:436:PRO:HG3	2.04	0.40
1:T:612:TYR:O	1:T:615:GLY:N	2.52	0.40
1:U:311:LEU:HD12	1:U:311:LEU:C	2.46	0.40
1:U:319:GLN:HB2	1:U:675:THR:HG22	2.03	0.40
1:W:526:HIS:HE1	1:W:561:ASP:OD2	2.04	0.40
1:W:589:GLN:HA	1:Y:496:ASN:ND2	2.37	0.40
1:Z:395:LEU:O	1:Z:398:PHE:HD2	2.04	0.40
1:b:435:ASN:HA	1:b:436:PRO:HD3	1.97	0.40
1:c:598:GLN:NE2	1:c:601:LEU:HD11	2.36	0.40
1:d:589:GLN:HA	1:l:496:ASN:ND2	2.37	0.40
1:g:288:HIS:HE1	1:g:361:CYS:SG	2.45	0.40
1:i:413:TYR:HE2	1:i:415:PHE:CD1	2.40	0.40
1:j:273:PHE:HB3	1:j:381:ASN:HB3	2.03	0.40
1:m:653:VAL:HA	1:m:654:PRO:HD3	1.90	0.40
1:o:395:LEU:O	1:o:398:PHE:HD2	2.04	0.40
1:r:436:PRO:HG3	1:s:378:LEU:HG	2.04	0.40
1:s:319:GLN:HB2	1:s:675:THR:HG22	2.03	0.40
1:v:413:TYR:HE2	1:v:415:PHE:CD1	2.40	0.40
1:w:378:LEU:HG	1:y:436:PRO:HG3	2.04	0.40
1:x:288:HIS:HE1	1:x:361:CYS:SG	2.45	0.40
1:x:395:LEU:O	1:x:398:PHE:HD2	2.04	0.40
1:y:288:HIS:HE1	1:y:361:CYS:SG	2.45	0.40
1:y:526:HIS:HE1	1:y:561:ASP:OD2	2.04	0.40
1:z:436:PRO:HG3	1:1:378:LEU:HG	2.04	0.40
1:1:235:MET:HE2	1:1:235:MET:HB3	1.74	0.40
1:1:273:PHE:HB3	1:1:381:ASN:HB3	2.03	0.40
1:2:311:LEU:HD12	1:2:311:LEU:C	2.46	0.40
1:2:395:LEU:O	1:2:398:PHE:HD2	2.04	0.40
1:4:319:GLN:O	1:4:674:SER:CA	2.69	0.40
1:5:314:LYS:CG	1:5:410:THR:HG22	2.46	0.40
1:5:319:GLN:O	1:5:674:SER:CA	2.69	0.40
1:5:589:GLN:HA	1:6:496:ASN:ND2	2.37	0.40
1:6:413:TYR:CD2	1:6:413:TYR:C	2.99	0.40
1:6:589:GLN:HA	1:7:496:ASN:ND2	2.37	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	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	2	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	3	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	4	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	5	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	6	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	7	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	8	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	A	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	B	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	C	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	D	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	E	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	F	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	G	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	H	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	I	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	J	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	K	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	L	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	M	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	N	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	O	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	P	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	Q	515/735 (70%)	506 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	S	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	T	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	U	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	V	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	W	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	X	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	Y	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	Z	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	a	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	b	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	c	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	d	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	e	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	f	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	g	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	h	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	i	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	j	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	k	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	l	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	m	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	n	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	o	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	p	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	q	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	r	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	s	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	t	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	u	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	v	515/735 (70%)	506 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	x	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	y	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
1	z	515/735 (70%)	506 (98%)	9 (2%)	0	100	100
All	All	30900/44100 (70%)	30360 (98%)	540 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	2	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	3	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	4	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	5	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	6	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	7	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	8	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	A	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	B	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	C	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	D	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	E	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	F	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	G	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	H	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	I	459/630 (73%)	454 (99%)	5 (1%)	65	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	K	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	L	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	M	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	N	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	O	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	P	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	Q	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	R	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	S	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	T	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	U	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	V	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	W	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	X	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	Y	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	Z	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	a	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	b	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	c	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	d	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	e	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	f	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	g	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	h	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	i	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	j	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	k	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	l	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	m	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	n	459/630 (73%)	454 (99%)	5 (1%)	65	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	p	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	q	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	r	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	s	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	t	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	u	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	v	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	w	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	x	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	y	459/630 (73%)	454 (99%)	5 (1%)	65	75
1	z	459/630 (73%)	454 (99%)	5 (1%)	65	75
All	All	27540/37800 (73%)	27240 (99%)	300 (1%)	63	75

All (300) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	221	VAL
1	A	235	MET
1	A	647	LEU
1	A	689	GLU
1	A	710	VAL
1	B	221	VAL
1	B	235	MET
1	B	647	LEU
1	B	689	GLU
1	B	710	VAL
1	C	221	VAL
1	C	235	MET
1	C	647	LEU
1	C	689	GLU
1	C	710	VAL
1	D	221	VAL
1	D	235	MET
1	D	647	LEU
1	D	689	GLU
1	D	710	VAL
1	E	221	VAL

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Mol	Chain	Res	Type
1	E	235	MET
1	E	647	LEU
1	E	689	GLU
1	E	710	VAL
1	F	221	VAL
1	F	235	MET
1	F	647	LEU
1	F	689	GLU
1	F	710	VAL
1	G	221	VAL
1	G	235	MET
1	G	647	LEU
1	G	689	GLU
1	G	710	VAL
1	H	221	VAL
1	H	235	MET
1	H	647	LEU
1	H	689	GLU
1	H	710	VAL
1	I	221	VAL
1	I	235	MET
1	I	647	LEU
1	I	689	GLU
1	I	710	VAL
1	J	221	VAL
1	J	235	MET
1	J	647	LEU
1	J	689	GLU
1	J	710	VAL
1	K	221	VAL
1	K	235	MET
1	K	647	LEU
1	K	689	GLU
1	K	710	VAL
1	L	221	VAL
1	L	235	MET
1	L	647	LEU
1	L	689	GLU
1	L	710	VAL
1	M	221	VAL
1	M	235	MET
1	M	647	LEU

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Mol	Chain	Res	Type
1	M	689	GLU
1	M	710	VAL
1	N	221	VAL
1	N	235	MET
1	N	647	LEU
1	N	689	GLU
1	N	710	VAL
1	O	221	VAL
1	O	235	MET
1	O	647	LEU
1	O	689	GLU
1	O	710	VAL
1	P	221	VAL
1	P	235	MET
1	P	647	LEU
1	P	689	GLU
1	P	710	VAL
1	Q	221	VAL
1	Q	235	MET
1	Q	647	LEU
1	Q	689	GLU
1	Q	710	VAL
1	R	221	VAL
1	R	235	MET
1	R	647	LEU
1	R	689	GLU
1	R	710	VAL
1	S	221	VAL
1	S	235	MET
1	S	647	LEU
1	S	689	GLU
1	S	710	VAL
1	T	221	VAL
1	T	235	MET
1	T	647	LEU
1	T	689	GLU
1	T	710	VAL
1	U	221	VAL
1	U	235	MET
1	U	647	LEU
1	U	689	GLU
1	U	710	VAL

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Mol	Chain	Res	Type
1	V	221	VAL
1	V	235	MET
1	V	647	LEU
1	V	689	GLU
1	V	710	VAL
1	W	221	VAL
1	W	235	MET
1	W	647	LEU
1	W	689	GLU
1	W	710	VAL
1	X	221	VAL
1	X	235	MET
1	X	647	LEU
1	X	689	GLU
1	X	710	VAL
1	Y	221	VAL
1	Y	235	MET
1	Y	647	LEU
1	Y	689	GLU
1	Y	710	VAL
1	Z	221	VAL
1	Z	235	MET
1	Z	647	LEU
1	Z	689	GLU
1	Z	710	VAL
1	a	221	VAL
1	a	235	MET
1	a	647	LEU
1	a	689	GLU
1	a	710	VAL
1	b	221	VAL
1	b	235	MET
1	b	647	LEU
1	b	689	GLU
1	b	710	VAL
1	c	221	VAL
1	c	235	MET
1	c	647	LEU
1	c	689	GLU
1	c	710	VAL
1	d	221	VAL
1	d	235	MET

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Mol	Chain	Res	Type
1	d	647	LEU
1	d	689	GLU
1	d	710	VAL
1	e	221	VAL
1	e	235	MET
1	e	647	LEU
1	e	689	GLU
1	e	710	VAL
1	f	221	VAL
1	f	235	MET
1	f	647	LEU
1	f	689	GLU
1	f	710	VAL
1	g	221	VAL
1	g	235	MET
1	g	647	LEU
1	g	689	GLU
1	g	710	VAL
1	h	221	VAL
1	h	235	MET
1	h	647	LEU
1	h	689	GLU
1	h	710	VAL
1	i	221	VAL
1	i	235	MET
1	i	647	LEU
1	i	689	GLU
1	i	710	VAL
1	j	221	VAL
1	j	235	MET
1	j	647	LEU
1	j	689	GLU
1	j	710	VAL
1	k	221	VAL
1	k	235	MET
1	k	647	LEU
1	k	689	GLU
1	k	710	VAL
1	l	221	VAL
1	l	235	MET
1	l	647	LEU
1	l	689	GLU

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Mol	Chain	Res	Type
1	l	710	VAL
1	m	221	VAL
1	m	235	MET
1	m	647	LEU
1	m	689	GLU
1	m	710	VAL
1	n	221	VAL
1	n	235	MET
1	n	647	LEU
1	n	689	GLU
1	n	710	VAL
1	o	221	VAL
1	o	235	MET
1	o	647	LEU
1	o	689	GLU
1	o	710	VAL
1	p	221	VAL
1	p	235	MET
1	p	647	LEU
1	p	689	GLU
1	p	710	VAL
1	q	221	VAL
1	q	235	MET
1	q	647	LEU
1	q	689	GLU
1	q	710	VAL
1	r	221	VAL
1	r	235	MET
1	r	647	LEU
1	r	689	GLU
1	r	710	VAL
1	s	221	VAL
1	s	235	MET
1	s	647	LEU
1	s	689	GLU
1	s	710	VAL
1	t	221	VAL
1	t	235	MET
1	t	647	LEU
1	t	689	GLU
1	t	710	VAL
1	u	221	VAL

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Mol	Chain	Res	Type
1	u	235	MET
1	u	647	LEU
1	u	689	GLU
1	u	710	VAL
1	v	221	VAL
1	v	235	MET
1	v	647	LEU
1	v	689	GLU
1	v	710	VAL
1	w	221	VAL
1	w	235	MET
1	w	647	LEU
1	w	689	GLU
1	w	710	VAL
1	x	221	VAL
1	x	235	MET
1	x	647	LEU
1	x	689	GLU
1	x	710	VAL
1	y	221	VAL
1	y	235	MET
1	y	647	LEU
1	y	689	GLU
1	y	710	VAL
1	z	221	VAL
1	z	235	MET
1	z	647	LEU
1	z	689	GLU
1	z	710	VAL
1	1	221	VAL
1	1	235	MET
1	1	647	LEU
1	1	689	GLU
1	1	710	VAL
1	2	221	VAL
1	2	235	MET
1	2	647	LEU
1	2	689	GLU
1	2	710	VAL
1	3	221	VAL
1	3	235	MET
1	3	647	LEU

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Mol	Chain	Res	Type
1	3	689	GLU
1	3	710	VAL
1	4	221	VAL
1	4	235	MET
1	4	647	LEU
1	4	689	GLU
1	4	710	VAL
1	5	221	VAL
1	5	235	MET
1	5	647	LEU
1	5	689	GLU
1	5	710	VAL
1	6	221	VAL
1	6	235	MET
1	6	647	LEU
1	6	689	GLU
1	6	710	VAL
1	7	221	VAL
1	7	235	MET
1	7	647	LEU
1	7	689	GLU
1	7	710	VAL
1	8	221	VAL
1	8	235	MET
1	8	647	LEU
1	8	689	GLU
1	8	710	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1080) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	259	GLN
1	A	270	ASN
1	A	288	HIS
1	A	297	GLN
1	A	317	ASN
1	A	334	ASN
1	A	349	GLN
1	A	374	GLN
1	A	428	GLN
1	A	496	ASN
1	A	526	HIS

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Mol	Chain	Res	Type
1	A	536	GLN
1	A	598	GLN
1	A	623	HIS
1	A	645	GLN
1	A	672	GLN
1	A	677	GLN
1	A	734	ASN
1	B	229	HIS
1	B	259	GLN
1	B	270	ASN
1	B	288	HIS
1	B	297	GLN
1	B	317	ASN
1	B	334	ASN
1	B	349	GLN
1	B	374	GLN
1	B	428	GLN
1	B	496	ASN
1	B	526	HIS
1	B	536	GLN
1	B	598	GLN
1	B	623	HIS
1	B	645	GLN
1	B	672	GLN
1	B	677	GLN
1	B	734	ASN
1	C	259	GLN
1	C	270	ASN
1	C	288	HIS
1	C	297	GLN
1	C	317	ASN
1	C	334	ASN
1	C	349	GLN
1	C	374	GLN
1	C	428	GLN
1	C	496	ASN
1	C	526	HIS
1	C	536	GLN
1	C	598	GLN
1	C	623	HIS
1	C	645	GLN
1	C	672	GLN

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Mol	Chain	Res	Type
1	C	677	GLN
1	C	734	ASN
1	D	259	GLN
1	D	270	ASN
1	D	288	HIS
1	D	297	GLN
1	D	317	ASN
1	D	334	ASN
1	D	349	GLN
1	D	374	GLN
1	D	428	GLN
1	D	496	ASN
1	D	526	HIS
1	D	536	GLN
1	D	598	GLN
1	D	641	HIS
1	D	645	GLN
1	D	672	GLN
1	D	677	GLN
1	D	734	ASN
1	E	259	GLN
1	E	270	ASN
1	E	288	HIS
1	E	297	GLN
1	E	334	ASN
1	E	349	GLN
1	E	374	GLN
1	E	428	GLN
1	E	496	ASN
1	E	526	HIS
1	E	536	GLN
1	E	598	GLN
1	E	623	HIS
1	E	645	GLN
1	E	672	GLN
1	E	677	GLN
1	E	734	ASN
1	F	259	GLN
1	F	270	ASN
1	F	288	HIS
1	F	297	GLN
1	F	317	ASN

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Mol	Chain	Res	Type
1	F	334	ASN
1	F	349	GLN
1	F	374	GLN
1	F	428	GLN
1	F	496	ASN
1	F	526	HIS
1	F	536	GLN
1	F	598	GLN
1	F	623	HIS
1	F	645	GLN
1	F	672	GLN
1	F	677	GLN
1	F	734	ASN
1	G	259	GLN
1	G	270	ASN
1	G	288	HIS
1	G	297	GLN
1	G	317	ASN
1	G	334	ASN
1	G	349	GLN
1	G	374	GLN
1	G	428	GLN
1	G	496	ASN
1	G	526	HIS
1	G	536	GLN
1	G	598	GLN
1	G	623	HIS
1	G	641	HIS
1	G	645	GLN
1	G	672	GLN
1	G	677	GLN
1	G	734	ASN
1	H	259	GLN
1	H	270	ASN
1	H	288	HIS
1	H	297	GLN
1	H	317	ASN
1	H	334	ASN
1	H	349	GLN
1	H	374	GLN
1	H	428	GLN
1	H	496	ASN

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Mol	Chain	Res	Type
1	H	526	HIS
1	H	536	GLN
1	H	598	GLN
1	H	623	HIS
1	H	645	GLN
1	H	672	GLN
1	H	677	GLN
1	H	734	ASN
1	I	259	GLN
1	I	270	ASN
1	I	288	HIS
1	I	297	GLN
1	I	317	ASN
1	I	334	ASN
1	I	349	GLN
1	I	374	GLN
1	I	428	GLN
1	I	496	ASN
1	I	526	HIS
1	I	536	GLN
1	I	598	GLN
1	I	645	GLN
1	I	672	GLN
1	I	677	GLN
1	I	734	ASN
1	J	259	GLN
1	J	270	ASN
1	J	288	HIS
1	J	297	GLN
1	J	317	ASN
1	J	334	ASN
1	J	341	GLN
1	J	349	GLN
1	J	374	GLN
1	J	428	GLN
1	J	496	ASN
1	J	526	HIS
1	J	536	GLN
1	J	598	GLN
1	J	645	GLN
1	J	672	GLN
1	J	677	GLN

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Mol	Chain	Res	Type
1	J	734	ASN
1	K	259	GLN
1	K	270	ASN
1	K	288	HIS
1	K	297	GLN
1	K	334	ASN
1	K	349	GLN
1	K	374	GLN
1	K	428	GLN
1	K	496	ASN
1	K	526	HIS
1	K	536	GLN
1	K	598	GLN
1	K	645	GLN
1	K	672	GLN
1	K	677	GLN
1	K	734	ASN
1	L	259	GLN
1	L	270	ASN
1	L	288	HIS
1	L	297	GLN
1	L	317	ASN
1	L	334	ASN
1	L	349	GLN
1	L	374	GLN
1	L	428	GLN
1	L	496	ASN
1	L	526	HIS
1	L	536	GLN
1	L	598	GLN
1	L	623	HIS
1	L	645	GLN
1	L	672	GLN
1	L	677	GLN
1	L	734	ASN
1	M	259	GLN
1	M	270	ASN
1	M	288	HIS
1	M	297	GLN
1	M	317	ASN
1	M	334	ASN
1	M	349	GLN

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Mol	Chain	Res	Type
1	M	374	GLN
1	M	428	GLN
1	M	496	ASN
1	M	526	HIS
1	M	536	GLN
1	M	598	GLN
1	M	623	HIS
1	M	645	GLN
1	M	672	GLN
1	M	677	GLN
1	M	734	ASN
1	N	259	GLN
1	N	270	ASN
1	N	288	HIS
1	N	297	GLN
1	N	317	ASN
1	N	334	ASN
1	N	349	GLN
1	N	374	GLN
1	N	428	GLN
1	N	496	ASN
1	N	526	HIS
1	N	598	GLN
1	N	623	HIS
1	N	645	GLN
1	N	672	GLN
1	N	677	GLN
1	N	734	ASN
1	O	259	GLN
1	O	270	ASN
1	O	288	HIS
1	O	297	GLN
1	O	317	ASN
1	O	334	ASN
1	O	349	GLN
1	O	374	GLN
1	O	428	GLN
1	O	496	ASN
1	O	526	HIS
1	O	536	GLN
1	O	598	GLN
1	O	623	HIS

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Mol	Chain	Res	Type
1	O	645	GLN
1	O	672	GLN
1	O	677	GLN
1	O	734	ASN
1	P	259	GLN
1	P	270	ASN
1	P	288	HIS
1	P	297	GLN
1	P	317	ASN
1	P	334	ASN
1	P	349	GLN
1	P	374	GLN
1	P	428	GLN
1	P	496	ASN
1	P	526	HIS
1	P	536	GLN
1	P	598	GLN
1	P	623	HIS
1	P	641	HIS
1	P	645	GLN
1	P	672	GLN
1	P	677	GLN
1	P	734	ASN
1	Q	259	GLN
1	Q	270	ASN
1	Q	288	HIS
1	Q	297	GLN
1	Q	317	ASN
1	Q	334	ASN
1	Q	349	GLN
1	Q	374	GLN
1	Q	428	GLN
1	Q	496	ASN
1	Q	526	HIS
1	Q	536	GLN
1	Q	598	GLN
1	Q	623	HIS
1	Q	641	HIS
1	Q	645	GLN
1	Q	672	GLN
1	Q	677	GLN
1	Q	734	ASN

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Mol	Chain	Res	Type
1	R	259	GLN
1	R	270	ASN
1	R	288	HIS
1	R	297	GLN
1	R	317	ASN
1	R	334	ASN
1	R	349	GLN
1	R	374	GLN
1	R	428	GLN
1	R	496	ASN
1	R	526	HIS
1	R	536	GLN
1	R	598	GLN
1	R	623	HIS
1	R	645	GLN
1	R	672	GLN
1	R	677	GLN
1	R	734	ASN
1	S	259	GLN
1	S	270	ASN
1	S	288	HIS
1	S	297	GLN
1	S	317	ASN
1	S	334	ASN
1	S	349	GLN
1	S	374	GLN
1	S	428	GLN
1	S	496	ASN
1	S	526	HIS
1	S	536	GLN
1	S	598	GLN
1	S	623	HIS
1	S	641	HIS
1	S	645	GLN
1	S	672	GLN
1	S	677	GLN
1	S	734	ASN
1	T	259	GLN
1	T	270	ASN
1	T	288	HIS
1	T	297	GLN
1	T	317	ASN

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Mol	Chain	Res	Type
1	T	334	ASN
1	T	349	GLN
1	T	374	GLN
1	T	428	GLN
1	T	496	ASN
1	T	526	HIS
1	T	536	GLN
1	T	598	GLN
1	T	623	HIS
1	T	641	HIS
1	T	645	GLN
1	T	672	GLN
1	T	677	GLN
1	T	734	ASN
1	U	259	GLN
1	U	270	ASN
1	U	288	HIS
1	U	297	GLN
1	U	334	ASN
1	U	349	GLN
1	U	374	GLN
1	U	428	GLN
1	U	496	ASN
1	U	526	HIS
1	U	536	GLN
1	U	598	GLN
1	U	623	HIS
1	U	645	GLN
1	U	672	GLN
1	U	677	GLN
1	U	734	ASN
1	V	259	GLN
1	V	270	ASN
1	V	288	HIS
1	V	297	GLN
1	V	317	ASN
1	V	334	ASN
1	V	349	GLN
1	V	374	GLN
1	V	428	GLN
1	V	496	ASN
1	V	526	HIS

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Mol	Chain	Res	Type
1	V	536	GLN
1	V	598	GLN
1	V	623	HIS
1	V	641	HIS
1	V	645	GLN
1	V	672	GLN
1	V	677	GLN
1	V	734	ASN
1	W	259	GLN
1	W	270	ASN
1	W	288	HIS
1	W	297	GLN
1	W	317	ASN
1	W	334	ASN
1	W	349	GLN
1	W	374	GLN
1	W	428	GLN
1	W	496	ASN
1	W	526	HIS
1	W	536	GLN
1	W	598	GLN
1	W	641	HIS
1	W	645	GLN
1	W	672	GLN
1	W	677	GLN
1	W	734	ASN
1	X	259	GLN
1	X	270	ASN
1	X	288	HIS
1	X	297	GLN
1	X	334	ASN
1	X	349	GLN
1	X	374	GLN
1	X	428	GLN
1	X	496	ASN
1	X	526	HIS
1	X	536	GLN
1	X	598	GLN
1	X	623	HIS
1	X	645	GLN
1	X	672	GLN
1	X	677	GLN

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Mol	Chain	Res	Type
1	X	734	ASN
1	Y	259	GLN
1	Y	270	ASN
1	Y	288	HIS
1	Y	297	GLN
1	Y	317	ASN
1	Y	334	ASN
1	Y	349	GLN
1	Y	374	GLN
1	Y	428	GLN
1	Y	496	ASN
1	Y	526	HIS
1	Y	536	GLN
1	Y	598	GLN
1	Y	623	HIS
1	Y	645	GLN
1	Y	672	GLN
1	Y	677	GLN
1	Y	734	ASN
1	Z	229	HIS
1	Z	259	GLN
1	Z	270	ASN
1	Z	288	HIS
1	Z	297	GLN
1	Z	317	ASN
1	Z	334	ASN
1	Z	349	GLN
1	Z	374	GLN
1	Z	428	GLN
1	Z	496	ASN
1	Z	526	HIS
1	Z	536	GLN
1	Z	598	GLN
1	Z	623	HIS
1	Z	645	GLN
1	Z	672	GLN
1	Z	677	GLN
1	Z	734	ASN
1	a	259	GLN
1	a	270	ASN
1	a	288	HIS
1	a	297	GLN

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Mol	Chain	Res	Type
1	a	317	ASN
1	a	334	ASN
1	a	349	GLN
1	a	374	GLN
1	a	428	GLN
1	a	496	ASN
1	a	526	HIS
1	a	536	GLN
1	a	598	GLN
1	a	623	HIS
1	a	645	GLN
1	a	672	GLN
1	a	677	GLN
1	a	734	ASN
1	b	259	GLN
1	b	270	ASN
1	b	288	HIS
1	b	297	GLN
1	b	334	ASN
1	b	349	GLN
1	b	374	GLN
1	b	428	GLN
1	b	496	ASN
1	b	526	HIS
1	b	536	GLN
1	b	598	GLN
1	b	623	HIS
1	b	641	HIS
1	b	645	GLN
1	b	672	GLN
1	b	677	GLN
1	b	734	ASN
1	c	259	GLN
1	c	270	ASN
1	c	288	HIS
1	c	297	GLN
1	c	317	ASN
1	c	334	ASN
1	c	349	GLN
1	c	374	GLN
1	c	428	GLN
1	c	496	ASN

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Mol	Chain	Res	Type
1	c	526	HIS
1	c	536	GLN
1	c	598	GLN
1	c	623	HIS
1	c	645	GLN
1	c	672	GLN
1	c	677	GLN
1	c	734	ASN
1	d	259	GLN
1	d	270	ASN
1	d	288	HIS
1	d	297	GLN
1	d	317	ASN
1	d	334	ASN
1	d	349	GLN
1	d	374	GLN
1	d	428	GLN
1	d	496	ASN
1	d	526	HIS
1	d	598	GLN
1	d	645	GLN
1	d	672	GLN
1	d	677	GLN
1	d	734	ASN
1	e	259	GLN
1	e	270	ASN
1	e	288	HIS
1	e	297	GLN
1	e	317	ASN
1	e	334	ASN
1	e	349	GLN
1	e	374	GLN
1	e	428	GLN
1	e	496	ASN
1	e	526	HIS
1	e	536	GLN
1	e	598	GLN
1	e	623	HIS
1	e	645	GLN
1	e	672	GLN
1	e	677	GLN
1	e	734	ASN

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Mol	Chain	Res	Type
1	f	259	GLN
1	f	270	ASN
1	f	288	HIS
1	f	297	GLN
1	f	317	ASN
1	f	334	ASN
1	f	349	GLN
1	f	374	GLN
1	f	428	GLN
1	f	496	ASN
1	f	526	HIS
1	f	536	GLN
1	f	598	GLN
1	f	623	HIS
1	f	645	GLN
1	f	672	GLN
1	f	677	GLN
1	f	734	ASN
1	g	259	GLN
1	g	270	ASN
1	g	288	HIS
1	g	297	GLN
1	g	317	ASN
1	g	334	ASN
1	g	349	GLN
1	g	374	GLN
1	g	428	GLN
1	g	496	ASN
1	g	526	HIS
1	g	536	GLN
1	g	598	GLN
1	g	623	HIS
1	g	645	GLN
1	g	672	GLN
1	g	677	GLN
1	g	734	ASN
1	h	259	GLN
1	h	270	ASN
1	h	288	HIS
1	h	297	GLN
1	h	317	ASN
1	h	334	ASN

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Mol	Chain	Res	Type
1	h	349	GLN
1	h	374	GLN
1	h	428	GLN
1	h	496	ASN
1	h	526	HIS
1	h	536	GLN
1	h	598	GLN
1	h	623	HIS
1	h	645	GLN
1	h	677	GLN
1	h	734	ASN
1	i	259	GLN
1	i	270	ASN
1	i	288	HIS
1	i	297	GLN
1	i	317	ASN
1	i	334	ASN
1	i	349	GLN
1	i	374	GLN
1	i	428	GLN
1	i	496	ASN
1	i	526	HIS
1	i	598	GLN
1	i	623	HIS
1	i	645	GLN
1	i	672	GLN
1	i	677	GLN
1	i	734	ASN
1	j	259	GLN
1	j	270	ASN
1	j	288	HIS
1	j	297	GLN
1	j	317	ASN
1	j	334	ASN
1	j	349	GLN
1	j	374	GLN
1	j	428	GLN
1	j	496	ASN
1	j	526	HIS
1	j	536	GLN
1	j	598	GLN
1	j	623	HIS

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Mol	Chain	Res	Type
1	j	641	HIS
1	j	645	GLN
1	j	672	GLN
1	j	677	GLN
1	j	734	ASN
1	k	259	GLN
1	k	270	ASN
1	k	288	HIS
1	k	297	GLN
1	k	334	ASN
1	k	349	GLN
1	k	374	GLN
1	k	428	GLN
1	k	496	ASN
1	k	526	HIS
1	k	536	GLN
1	k	598	GLN
1	k	641	HIS
1	k	645	GLN
1	k	672	GLN
1	k	677	GLN
1	k	734	ASN
1	l	259	GLN
1	l	270	ASN
1	l	288	HIS
1	l	297	GLN
1	l	317	ASN
1	l	334	ASN
1	l	349	GLN
1	l	374	GLN
1	l	428	GLN
1	l	496	ASN
1	l	526	HIS
1	l	536	GLN
1	l	598	GLN
1	l	623	HIS
1	l	645	GLN
1	l	672	GLN
1	l	677	GLN
1	l	734	ASN
1	m	259	GLN
1	m	270	ASN

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Mol	Chain	Res	Type
1	m	288	HIS
1	m	297	GLN
1	m	317	ASN
1	m	334	ASN
1	m	349	GLN
1	m	374	GLN
1	m	428	GLN
1	m	496	ASN
1	m	526	HIS
1	m	536	GLN
1	m	598	GLN
1	m	623	HIS
1	m	641	HIS
1	m	645	GLN
1	m	672	GLN
1	m	677	GLN
1	m	734	ASN
1	n	259	GLN
1	n	270	ASN
1	n	288	HIS
1	n	297	GLN
1	n	334	ASN
1	n	349	GLN
1	n	374	GLN
1	n	428	GLN
1	n	496	ASN
1	n	526	HIS
1	n	598	GLN
1	n	645	GLN
1	n	672	GLN
1	n	677	GLN
1	n	734	ASN
1	o	259	GLN
1	o	270	ASN
1	o	288	HIS
1	o	297	GLN
1	o	317	ASN
1	o	334	ASN
1	o	349	GLN
1	o	374	GLN
1	o	428	GLN
1	o	496	ASN

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Continued from previous page...

Mol	Chain	Res	Type
1	o	526	HIS
1	o	536	GLN
1	o	598	GLN
1	o	623	HIS
1	o	645	GLN
1	o	672	GLN
1	o	677	GLN
1	o	734	ASN
1	p	259	GLN
1	p	270	ASN
1	p	288	HIS
1	p	297	GLN
1	p	317	ASN
1	p	334	ASN
1	p	349	GLN
1	p	374	GLN
1	p	428	GLN
1	p	496	ASN
1	p	526	HIS
1	p	536	GLN
1	p	598	GLN
1	p	623	HIS
1	p	641	HIS
1	p	645	GLN
1	p	672	GLN
1	p	677	GLN
1	p	734	ASN
1	q	259	GLN
1	q	270	ASN
1	q	288	HIS
1	q	297	GLN
1	q	317	ASN
1	q	334	ASN
1	q	349	GLN
1	q	374	GLN
1	q	428	GLN
1	q	496	ASN
1	q	526	HIS
1	q	536	GLN
1	q	598	GLN
1	q	623	HIS
1	q	641	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	q	645	GLN
1	q	672	GLN
1	q	677	GLN
1	q	734	ASN
1	r	259	GLN
1	r	270	ASN
1	r	288	HIS
1	r	297	GLN
1	r	317	ASN
1	r	334	ASN
1	r	349	GLN
1	r	374	GLN
1	r	428	GLN
1	r	496	ASN
1	r	526	HIS
1	r	536	GLN
1	r	598	GLN
1	r	623	HIS
1	r	645	GLN
1	r	672	GLN
1	r	677	GLN
1	r	734	ASN
1	s	259	GLN
1	s	270	ASN
1	s	288	HIS
1	s	297	GLN
1	s	317	ASN
1	s	334	ASN
1	s	349	GLN
1	s	374	GLN
1	s	428	GLN
1	s	496	ASN
1	s	526	HIS
1	s	536	GLN
1	s	598	GLN
1	s	623	HIS
1	s	641	HIS
1	s	645	GLN
1	s	672	GLN
1	s	677	GLN
1	s	734	ASN
1	t	259	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	t	270	ASN
1	t	288	HIS
1	t	297	GLN
1	t	317	ASN
1	t	334	ASN
1	t	349	GLN
1	t	374	GLN
1	t	428	GLN
1	t	496	ASN
1	t	526	HIS
1	t	536	GLN
1	t	598	GLN
1	t	623	HIS
1	t	645	GLN
1	t	672	GLN
1	t	677	GLN
1	t	734	ASN
1	u	259	GLN
1	u	270	ASN
1	u	288	HIS
1	u	297	GLN
1	u	334	ASN
1	u	349	GLN
1	u	374	GLN
1	u	428	GLN
1	u	496	ASN
1	u	526	HIS
1	u	536	GLN
1	u	598	GLN
1	u	623	HIS
1	u	645	GLN
1	u	672	GLN
1	u	677	GLN
1	u	734	ASN
1	v	259	GLN
1	v	270	ASN
1	v	288	HIS
1	v	297	GLN
1	v	317	ASN
1	v	334	ASN
1	v	349	GLN
1	v	374	GLN

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Mol	Chain	Res	Type
1	v	428	GLN
1	v	496	ASN
1	v	526	HIS
1	v	536	GLN
1	v	598	GLN
1	v	623	HIS
1	v	645	GLN
1	v	672	GLN
1	v	677	GLN
1	v	734	ASN
1	w	259	GLN
1	w	270	ASN
1	w	288	HIS
1	w	297	GLN
1	w	317	ASN
1	w	334	ASN
1	w	349	GLN
1	w	374	GLN
1	w	428	GLN
1	w	496	ASN
1	w	526	HIS
1	w	536	GLN
1	w	598	GLN
1	w	623	HIS
1	w	645	GLN
1	w	672	GLN
1	w	677	GLN
1	w	734	ASN
1	x	259	GLN
1	x	270	ASN
1	x	288	HIS
1	x	297	GLN
1	x	317	ASN
1	x	334	ASN
1	x	349	GLN
1	x	374	GLN
1	x	428	GLN
1	x	496	ASN
1	x	526	HIS
1	x	536	GLN
1	x	598	GLN
1	x	623	HIS

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Mol	Chain	Res	Type
1	x	641	HIS
1	x	645	GLN
1	x	672	GLN
1	x	677	GLN
1	x	734	ASN
1	y	259	GLN
1	y	270	ASN
1	y	288	HIS
1	y	297	GLN
1	y	317	ASN
1	y	334	ASN
1	y	349	GLN
1	y	374	GLN
1	y	428	GLN
1	y	496	ASN
1	y	526	HIS
1	y	536	GLN
1	y	598	GLN
1	y	623	HIS
1	y	645	GLN
1	y	672	GLN
1	y	677	GLN
1	y	734	ASN
1	z	229	HIS
1	z	259	GLN
1	z	270	ASN
1	z	288	HIS
1	z	297	GLN
1	z	317	ASN
1	z	334	ASN
1	z	349	GLN
1	z	374	GLN
1	z	428	GLN
1	z	496	ASN
1	z	526	HIS
1	z	536	GLN
1	z	598	GLN
1	z	623	HIS
1	z	645	GLN
1	z	672	GLN
1	z	677	GLN
1	z	734	ASN

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Mol	Chain	Res	Type
1	1	229	HIS
1	1	259	GLN
1	1	270	ASN
1	1	288	HIS
1	1	297	GLN
1	1	317	ASN
1	1	334	ASN
1	1	349	GLN
1	1	374	GLN
1	1	428	GLN
1	1	496	ASN
1	1	526	HIS
1	1	536	GLN
1	1	598	GLN
1	1	623	HIS
1	1	645	GLN
1	1	672	GLN
1	1	677	GLN
1	1	734	ASN
1	2	259	GLN
1	2	270	ASN
1	2	288	HIS
1	2	297	GLN
1	2	317	ASN
1	2	334	ASN
1	2	341	GLN
1	2	349	GLN
1	2	374	GLN
1	2	428	GLN
1	2	496	ASN
1	2	526	HIS
1	2	536	GLN
1	2	598	GLN
1	2	623	HIS
1	2	645	GLN
1	2	672	GLN
1	2	677	GLN
1	2	734	ASN
1	3	259	GLN
1	3	270	ASN
1	3	288	HIS
1	3	297	GLN

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Mol	Chain	Res	Type
1	3	317	ASN
1	3	334	ASN
1	3	349	GLN
1	3	374	GLN
1	3	428	GLN
1	3	496	ASN
1	3	526	HIS
1	3	536	GLN
1	3	598	GLN
1	3	623	HIS
1	3	645	GLN
1	3	672	GLN
1	3	677	GLN
1	3	734	ASN
1	4	259	GLN
1	4	270	ASN
1	4	288	HIS
1	4	297	GLN
1	4	334	ASN
1	4	349	GLN
1	4	374	GLN
1	4	428	GLN
1	4	496	ASN
1	4	526	HIS
1	4	536	GLN
1	4	598	GLN
1	4	645	GLN
1	4	672	GLN
1	4	677	GLN
1	4	734	ASN
1	5	259	GLN
1	5	270	ASN
1	5	288	HIS
1	5	297	GLN
1	5	317	ASN
1	5	334	ASN
1	5	349	GLN
1	5	374	GLN
1	5	428	GLN
1	5	496	ASN
1	5	526	HIS
1	5	536	GLN

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Mol	Chain	Res	Type
1	5	598	GLN
1	5	623	HIS
1	5	645	GLN
1	5	672	GLN
1	5	677	GLN
1	5	734	ASN
1	6	259	GLN
1	6	270	ASN
1	6	288	HIS
1	6	297	GLN
1	6	317	ASN
1	6	334	ASN
1	6	349	GLN
1	6	374	GLN
1	6	428	GLN
1	6	496	ASN
1	6	526	HIS
1	6	536	GLN
1	6	598	GLN
1	6	641	HIS
1	6	645	GLN
1	6	672	GLN
1	6	677	GLN
1	6	734	ASN
1	7	259	GLN
1	7	270	ASN
1	7	288	HIS
1	7	297	GLN
1	7	317	ASN
1	7	334	ASN
1	7	349	GLN
1	7	374	GLN
1	7	428	GLN
1	7	496	ASN
1	7	526	HIS
1	7	536	GLN
1	7	598	GLN
1	7	623	HIS
1	7	645	GLN
1	7	672	GLN
1	7	677	GLN
1	7	734	ASN

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Mol	Chain	Res	Type
1	8	229	HIS
1	8	259	GLN
1	8	270	ASN
1	8	288	HIS
1	8	297	GLN
1	8	317	ASN
1	8	334	ASN
1	8	349	GLN
1	8	374	GLN
1	8	428	GLN
1	8	496	ASN
1	8	526	HIS
1	8	536	GLN
1	8	598	GLN
1	8	623	HIS
1	8	645	GLN
1	8	672	GLN
1	8	677	GLN
1	8	734	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

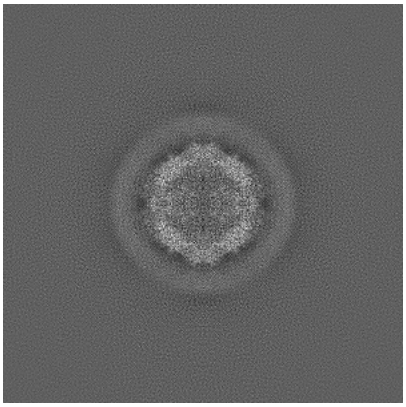
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-24718. These allow visual inspection of the internal detail of the map and identification of artifacts.

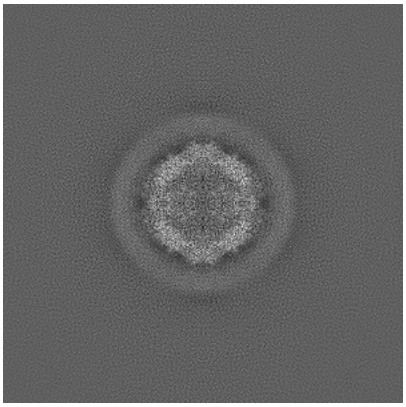
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

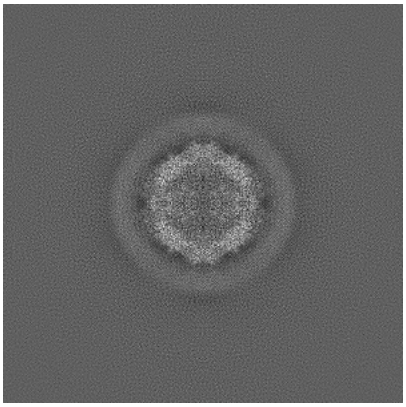
6.1.1 Primary map



X



Y

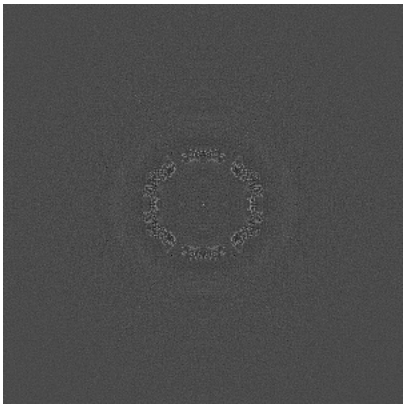


Z

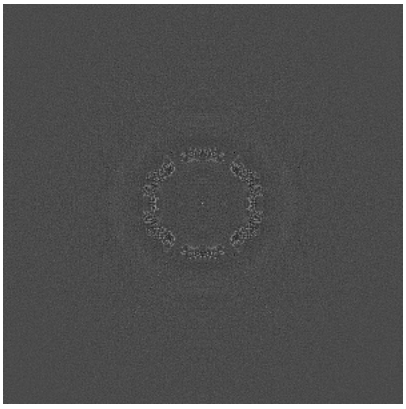
The images above show the map projected in three orthogonal directions.

6.2 Central slices

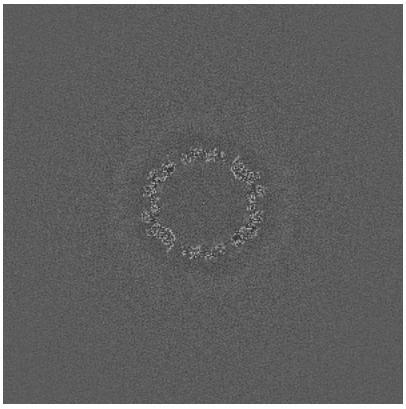
6.2.1 Primary map



X Index: 384



Y Index: 384

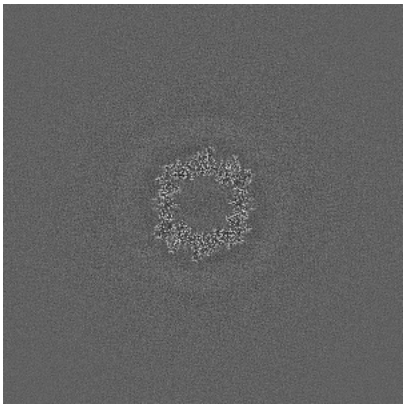


Z Index: 384

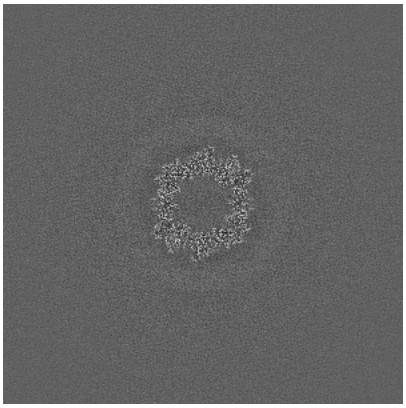
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

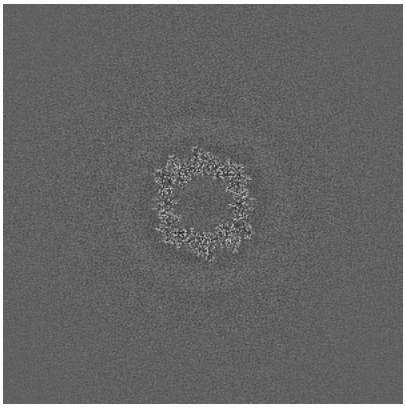
6.3.1 Primary map



X Index: 446



Y Index: 446

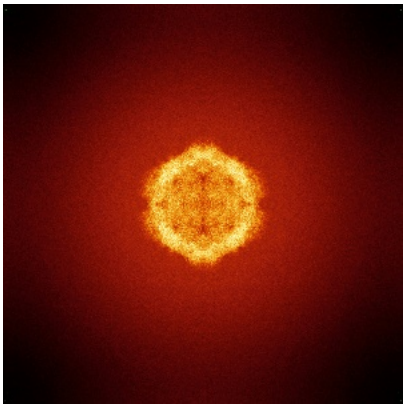


Z Index: 321

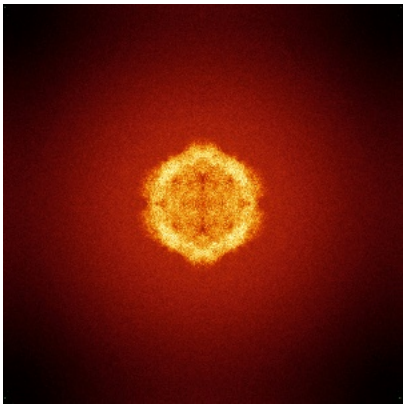
The images above show the largest variance slices of the map in three orthogonal directions.

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

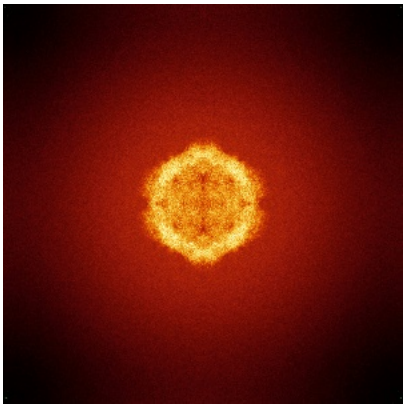
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 5.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

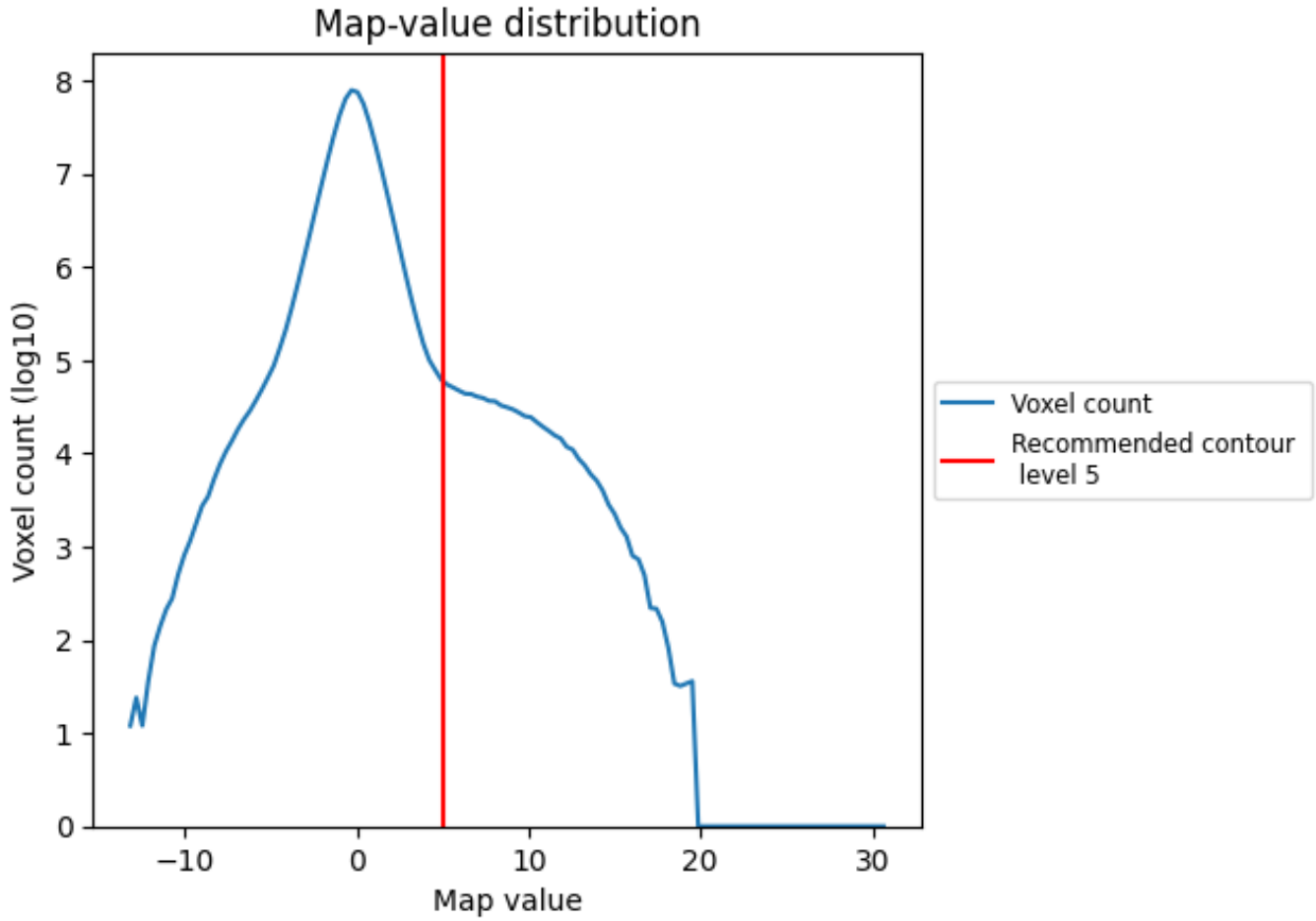
6.6 Mask visualisation (i)

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

7 Map analysis

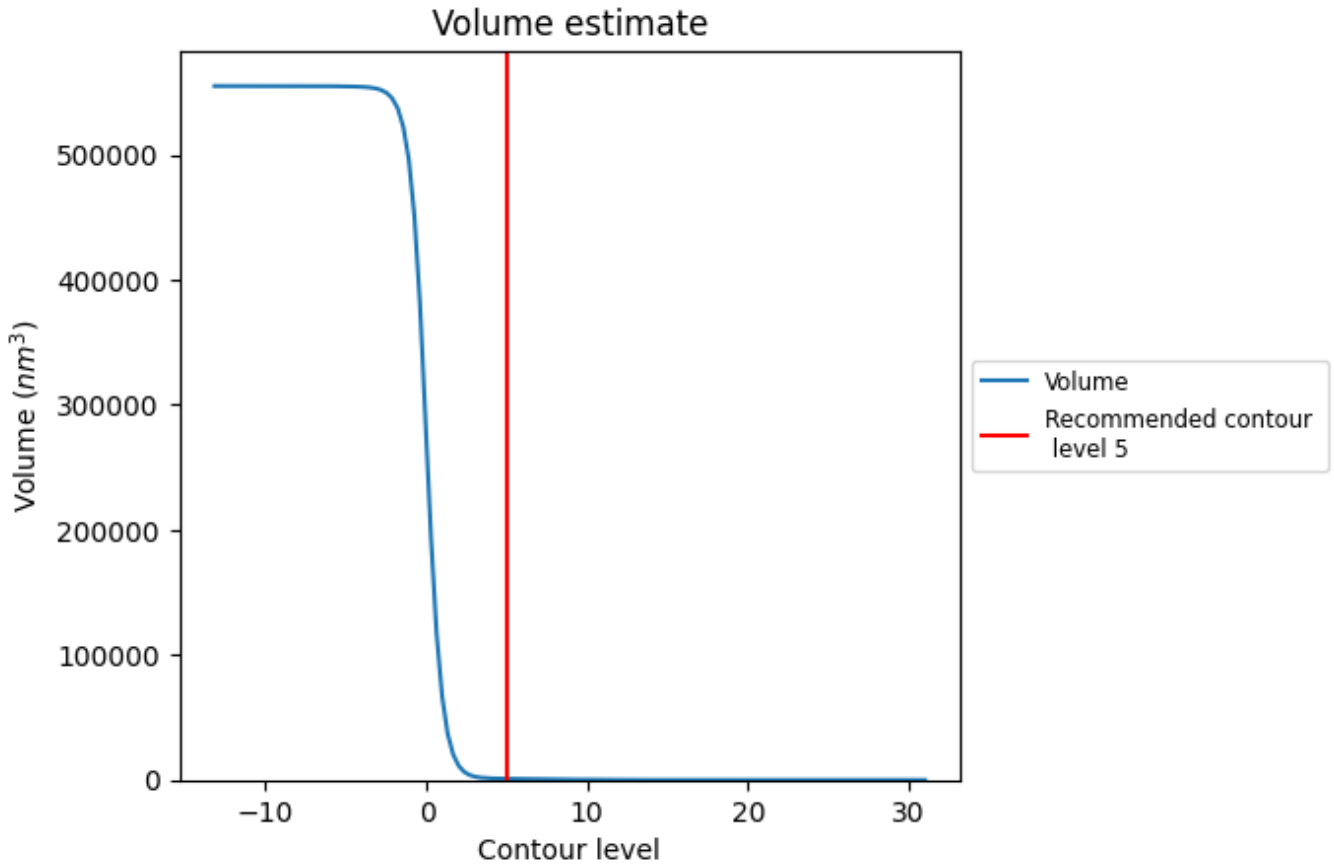
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

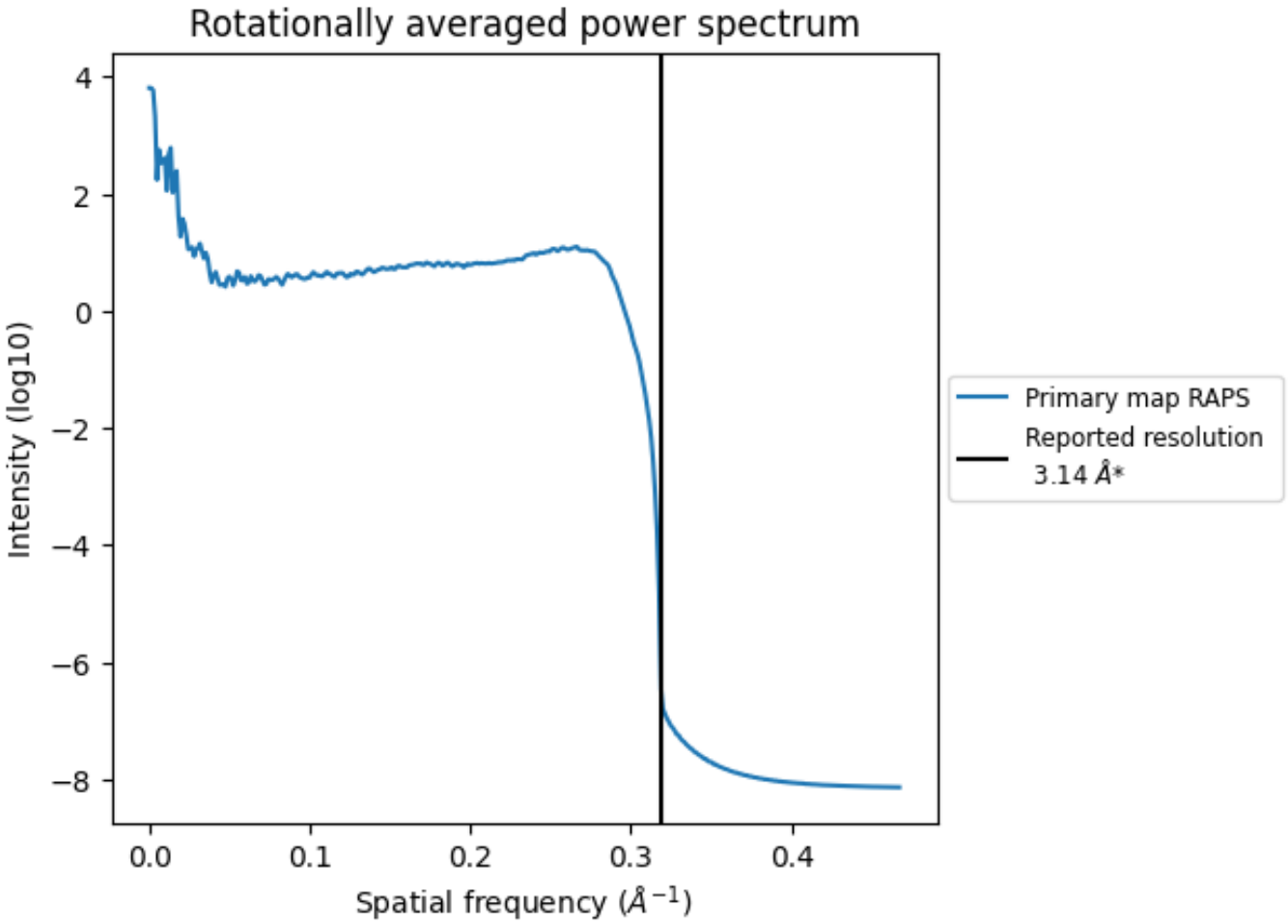
7.2 Volume estimate



The volume at the recommended contour level is 938 nm^3; this corresponds to an approximate mass of 847 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.318 Å^{-1}

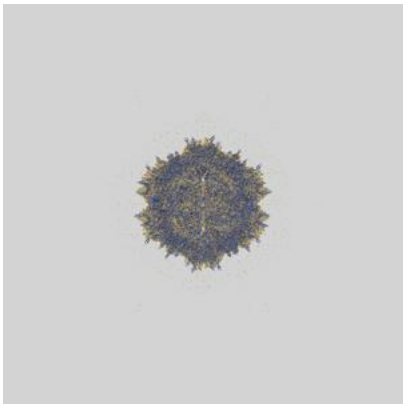
8 Fourier-Shell correlation

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

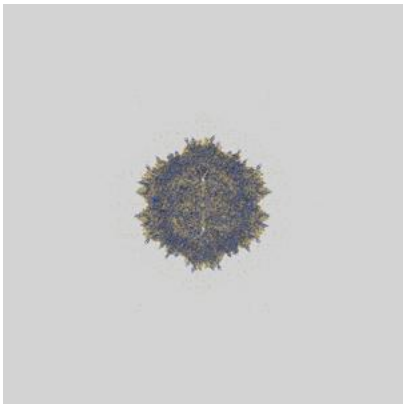
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-24718 and PDB model 7RWL. Per-residue inclusion information can be found in section 3 on page 10.

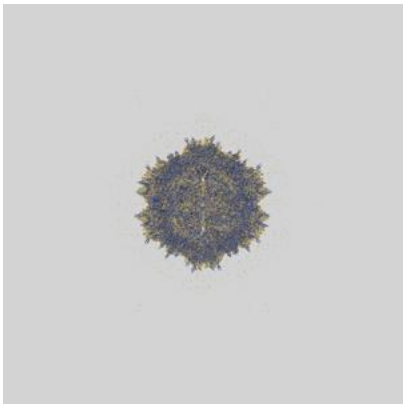
9.1 Map-model overlay



X



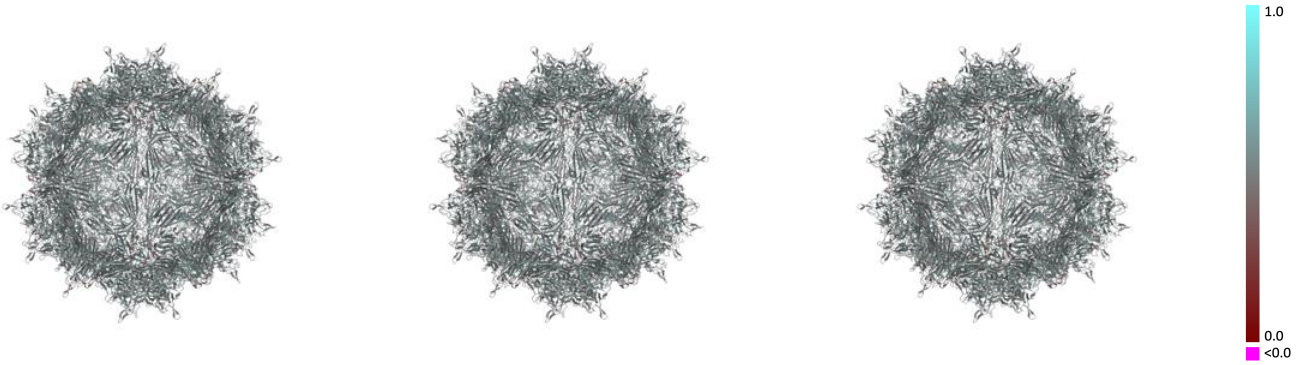
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 5.0 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)



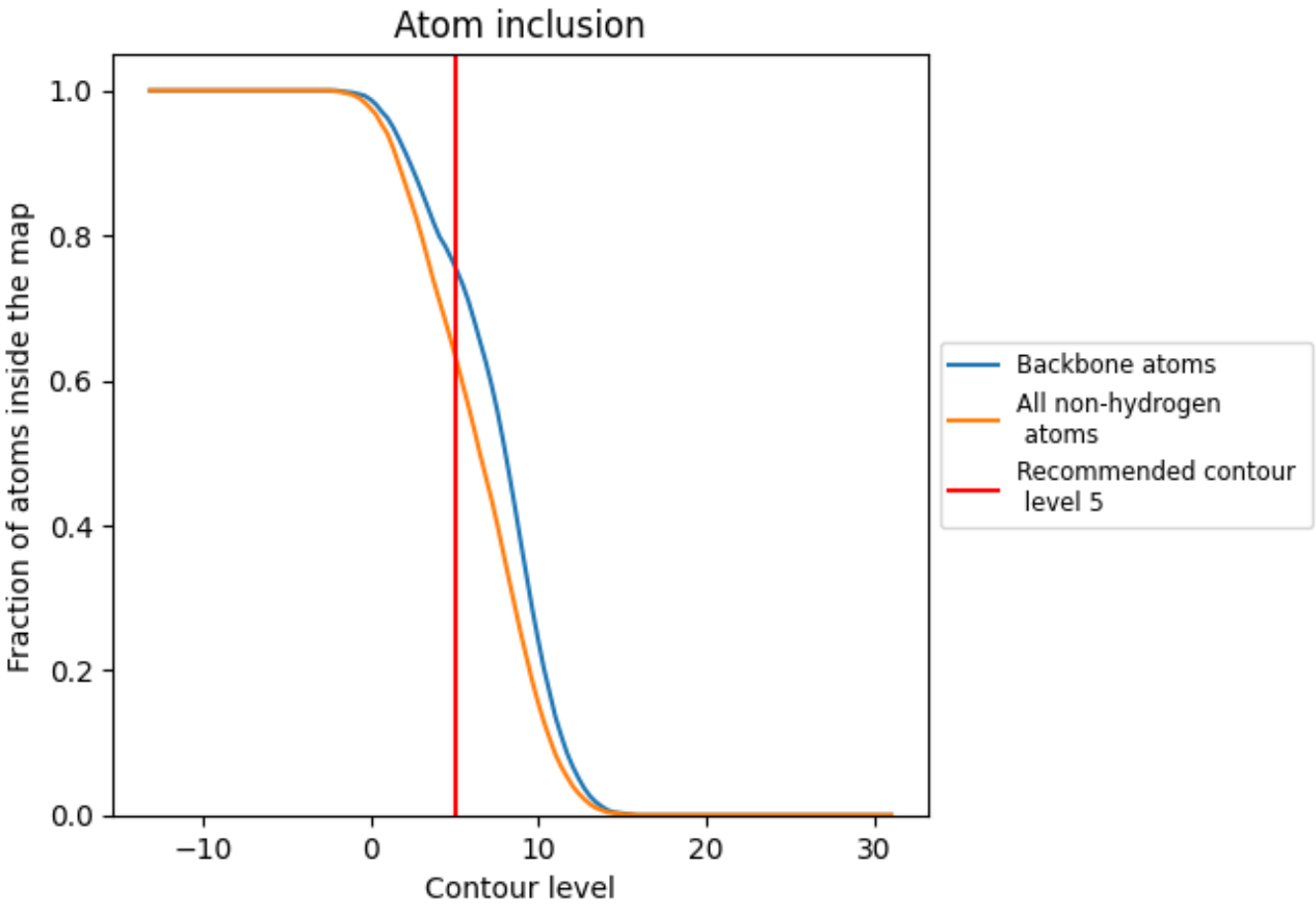
X Y Z

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

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 76% of all backbone atoms, 64% 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 (5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6360	0.5150
1	0.6370	0.5140
2	0.6350	0.5170
3	0.6370	0.5200
4	0.6360	0.5180
5	0.6370	0.5190
6	0.6350	0.5180
7	0.6380	0.5210
8	0.6410	0.5210
A	0.6400	0.5180
B	0.6410	0.5200
C	0.6410	0.5190
D	0.6390	0.5170
E	0.6410	0.5170
F	0.6380	0.5150
G	0.6400	0.5170
H	0.6380	0.5190
I	0.6420	0.5190
J	0.6410	0.5210
K	0.6410	0.5210
L	0.6410	0.5210
M	0.6400	0.5180
N	0.6350	0.5150
O	0.6350	0.5130
P	0.6340	0.5140
Q	0.6360	0.5130
R	0.6350	0.5130
S	0.6320	0.5120
T	0.6330	0.5100
U	0.6360	0.5110
V	0.6340	0.5130
W	0.6350	0.5160
X	0.6340	0.5140
Y	0.6350	0.5180
Z	0.6410	0.5200

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Chain	Atom inclusion	Q-score
a	0.6390	0.5220
b	0.6390	0.5220
c	0.6370	0.5190
d	0.6320	0.5120
e	0.6310	0.5120
f	0.6310	0.5130
g	0.6330	0.5100
h	0.6310	0.5110
i	0.6310	0.5080
j	0.6310	0.5080
k	0.6310	0.5090
l	0.6310	0.5090
m	0.6340	0.5130
n	0.6310	0.5100
o	0.6400	0.5200
p	0.6370	0.5170
q	0.6320	0.5120
r	0.6360	0.5110
s	0.6350	0.5140
t	0.6350	0.5160
u	0.6340	0.5160
v	0.6320	0.5130
w	0.6300	0.5090
x	0.6330	0.5080
y	0.6320	0.5110
z	0.6330	0.5140