



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 05:40 PM UTC

PDB ID : 8V7X / pdb_00008v7x
EMDB ID : EMD-43009
Title : Cryo-EM structure of TTMV-LY1 anellovirus virus-like particle expressed in HEK293
Authors : Rajendra, B.; Swanson, K.
Deposited on : 2023-12-04
Resolution : 2.80 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

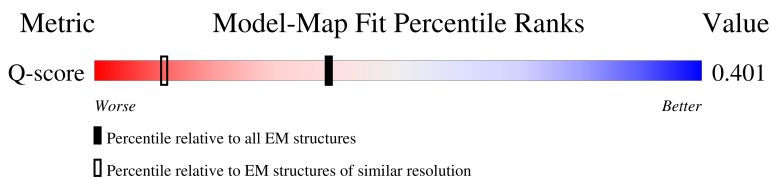
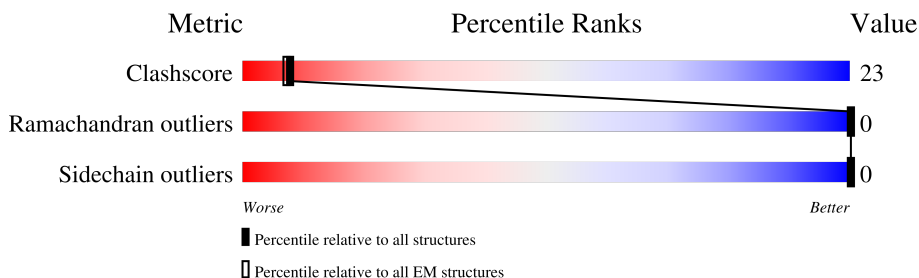
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.80 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	11806 (2.30 - 3.30)

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

Mol	Chain	Length	Quality of chain
1	0	609	54% 69% 15% • 15%
1	1	609	53% 69% 15% • 15%
1	2	609	53% 69% 15% • 15%
1	3	609	53% 69% 15% • 15%

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Mol	Chain	Length	Quality of chain
1	4	609	54% 69% 15% • 15%
1	5	609	53% 69% 15% • 15%
1	6	609	54% 69% 15% • 15%
1	7	609	54% 69% 15% • 15%
1	A	609	54% 69% 15% • 15%
1	B	609	54% 69% 15% • 15%
1	C	609	53% 70% 14% • 15%
1	D	609	54% 69% 14% • 15%
1	E	609	53% 69% 14% • 15%
1	F	609	53% 69% 15% • 15%
1	G	609	53% 69% 15% • 15%
1	H	609	54% 69% 15% • 15%
1	I	609	53% 69% 15% • 15%
1	J	609	53% 69% 15% • 15%
1	K	609	54% 69% 15% • 15%
1	L	609	54% 69% 15% • 15%
1	M	609	53% 69% 15% • 15%
1	N	609	53% 69% 15% • 15%
1	O	609	53% 69% 15% • 15%
1	P	609	53% 69% 15% • 15%
1	Q	609	54% 69% 14% • 15%
1	R	609	53% 69% 15% • 15%
1	S	609	53% 69% 15% • 15%
1	T	609	54% 69% 15% • 15%
1	U	609	53% 69% 15% • 15%

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Mol	Chain	Length	Quality of chain
1	V	609	53% 69% 15% • 15%
1	W	609	53% 69% 15% • 15%
1	X	609	54% 69% 15% • 15%
1	Y	609	53% 69% 15% • 15%
1	Z	609	54% 69% 15% • 15%
1	a	609	54% 69% 15% • 15%
1	b	609	54% 69% 15% • 15%
1	c	609	53% 69% 15% • 15%
1	d	609	54% 69% 15% • 15%
1	e	609	54% 69% 15% • 15%
1	f	609	54% 69% 14% • 15%
1	g	609	54% 69% 15% • 15%
1	h	609	53% 69% 15% • 15%
1	i	609	53% 69% 15% • 15%
1	j	609	54% 69% 15% • 15%
1	k	609	54% 69% 15% • 15%
1	l	609	54% 69% 15% • 15%
1	m	609	54% 69% 15% • 15%
1	n	609	54% 69% 15% • 15%
1	o	609	54% 69% 14% • 15%
1	p	609	53% 69% 15% • 15%
1	q	609	54% 69% 15% • 15%
1	r	609	53% 69% 15% • 15%
1	s	609	53% 69% 15% • 15%
1	t	609	53% 69% 15% • 15%

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Mol	Chain	Length	Quality of chain
1	u	609	54% 69% 15% • 15%
1	v	609	53% 69% 15% • 15%
1	w	609	53% 69% 15% • 15%
1	x	609	53% 69% 15% • 15%
1	y	609	54% 69% 15% • 15%
1	z	609	53% 69% 15% • 15%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 253440 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	1	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	2	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	3	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	4	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	5	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	6	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	7	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	A	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	B	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	C	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	D	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	E	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	F	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	G	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	H	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	I	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	J	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	K	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	L	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	M	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	N	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	O	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	P	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	Q	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	R	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	S	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	T	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	U	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	V	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	W	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	X	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	Y	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	Z	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	a	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	b	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	c	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	d	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	e	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	f	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	g	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	h	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	i	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	j	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	k	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	l	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	m	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	n	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	o	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	p	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	q	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	r	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	s	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	t	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	u	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	v	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	w	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	x	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		
1	y	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		

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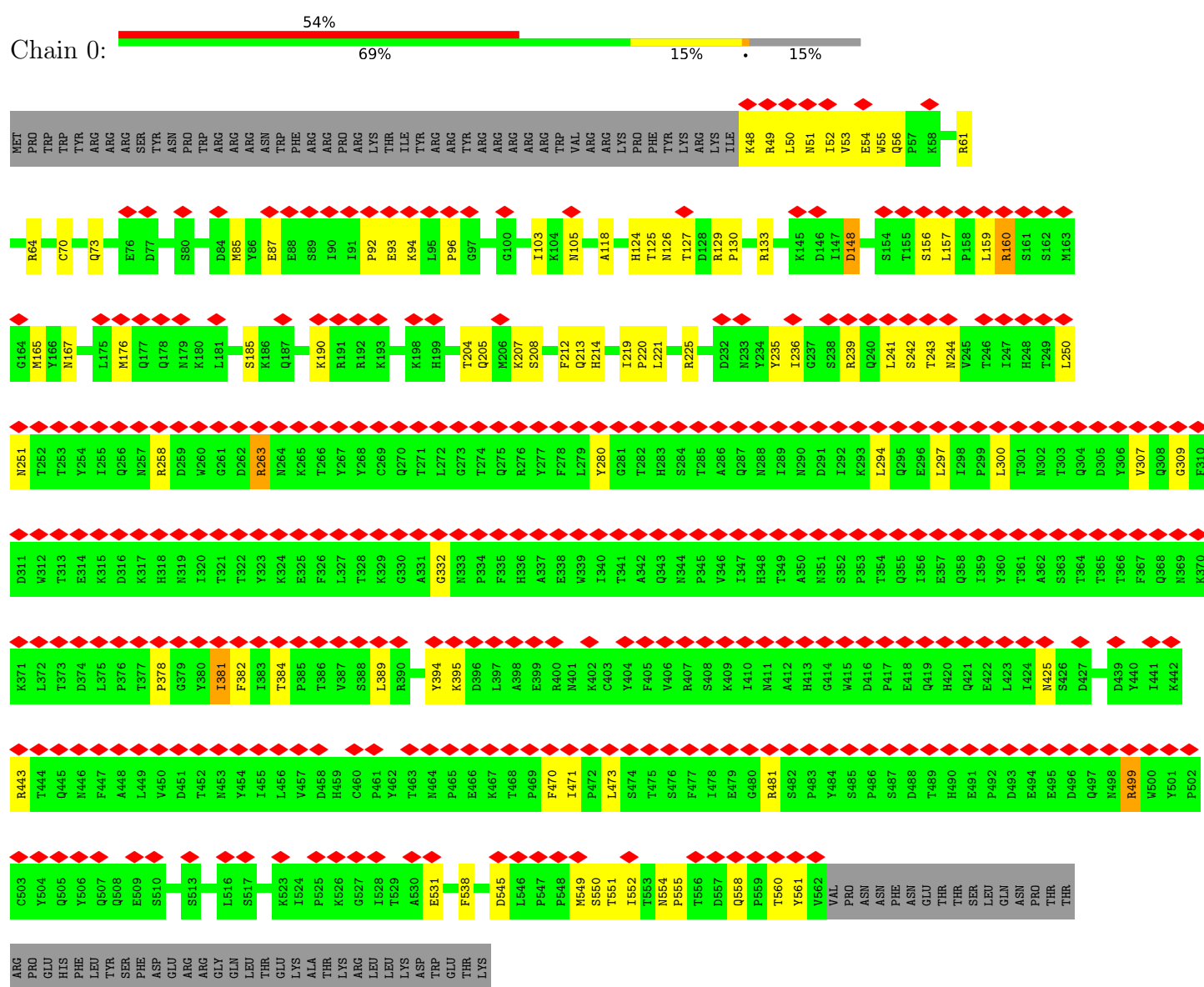
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	z	515	Total	C	N	O	S	0	0
			4224	2700	715	792	17		

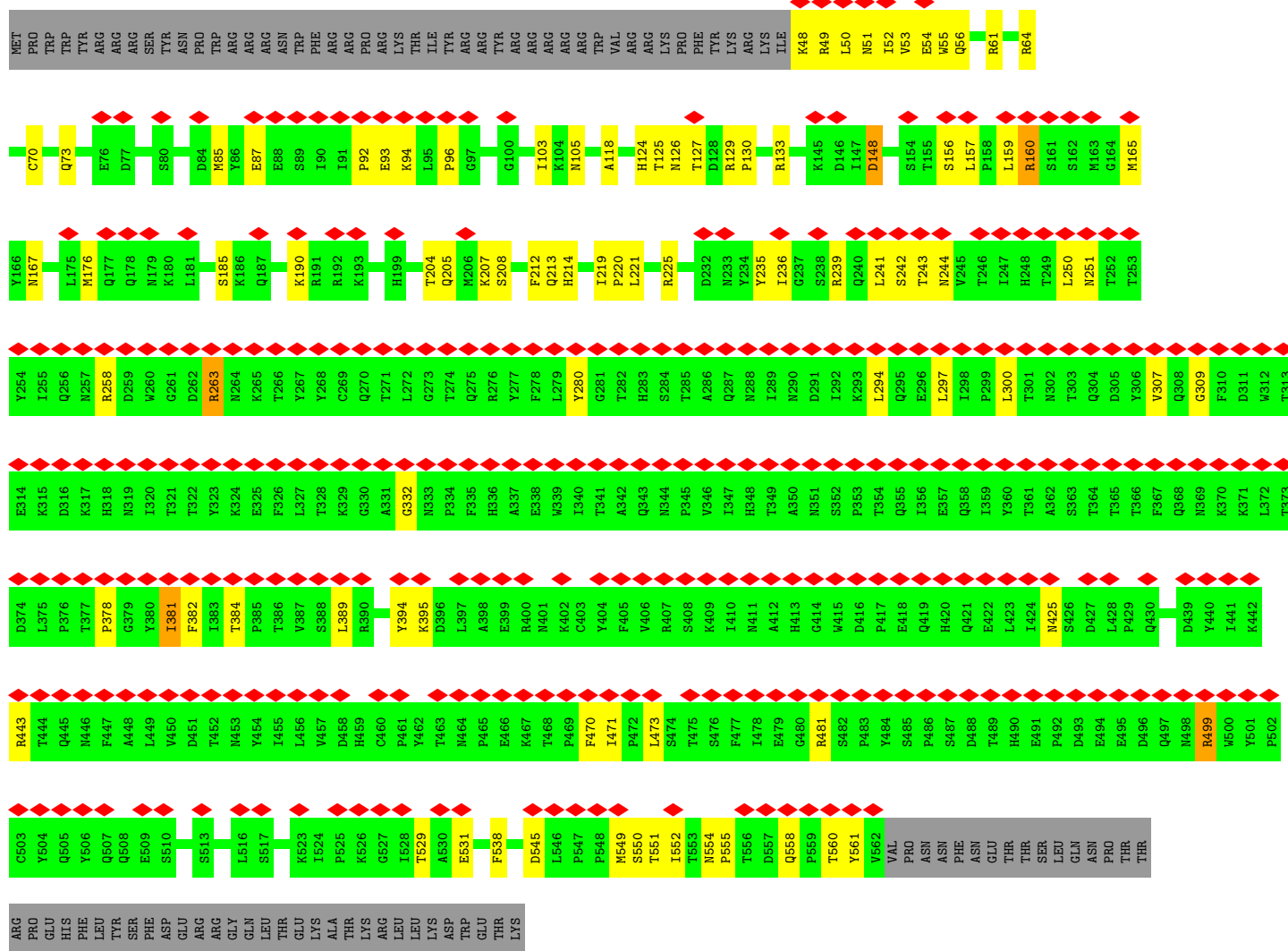
3 Residue-property plots

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

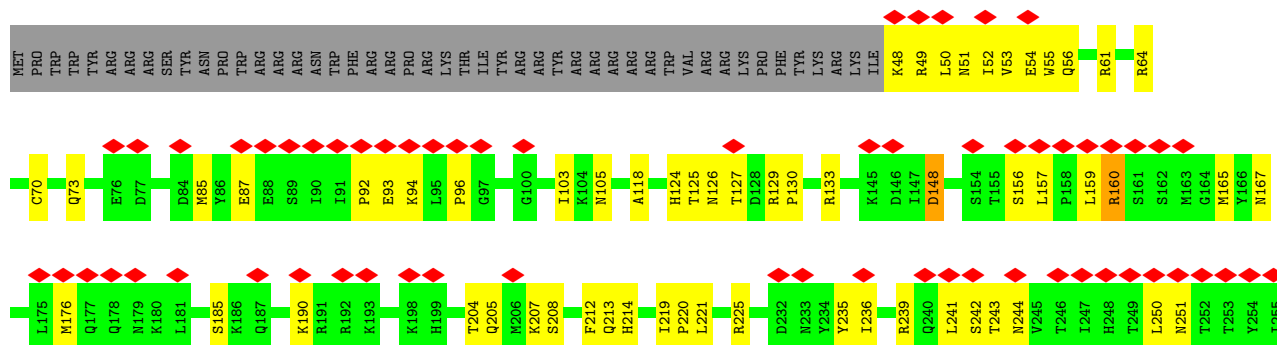
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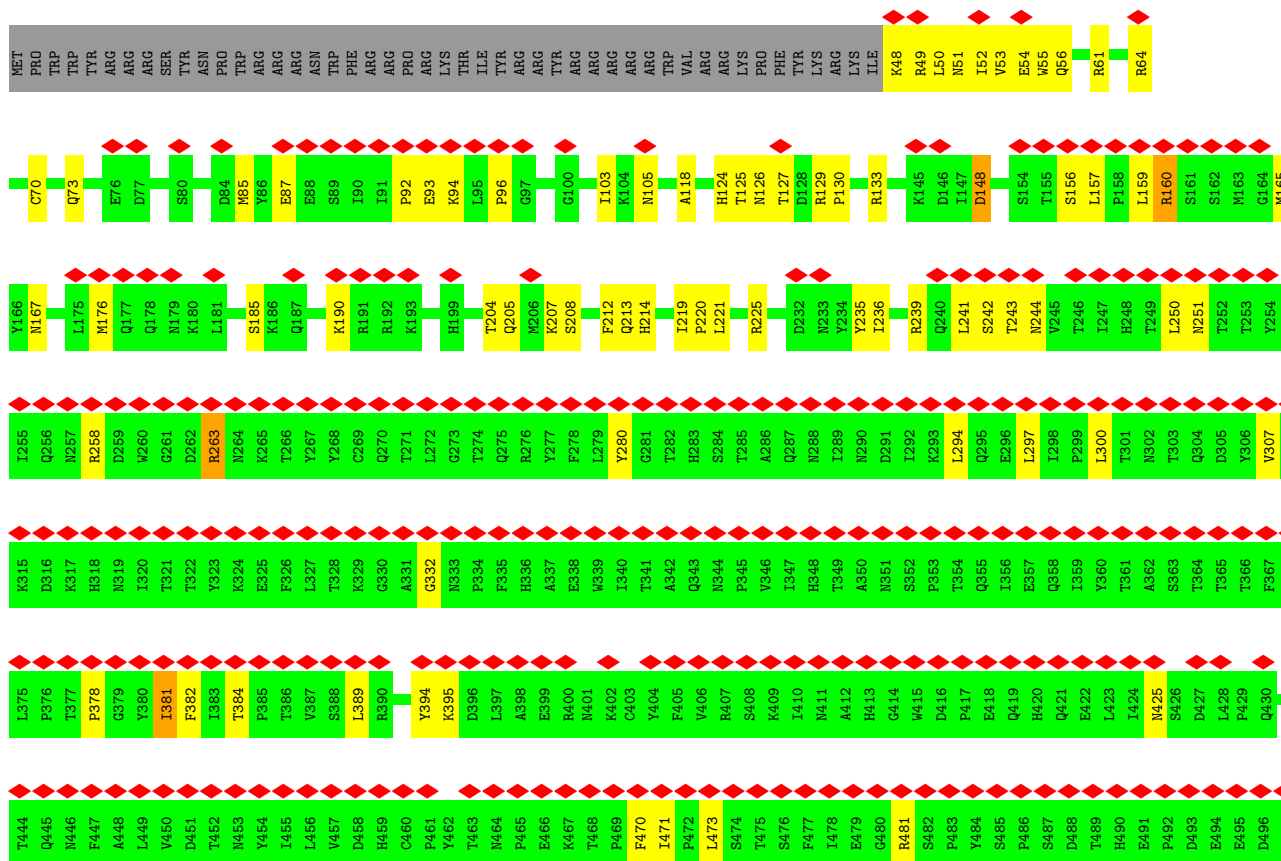


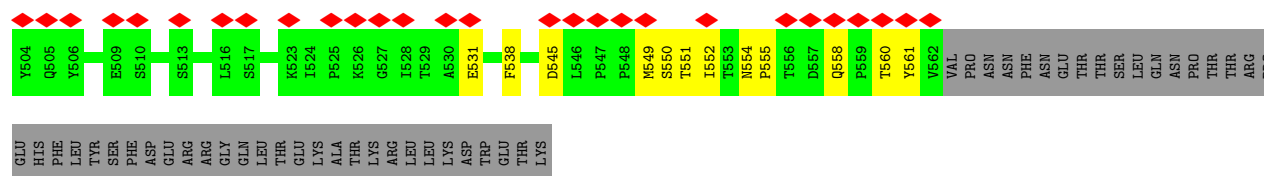
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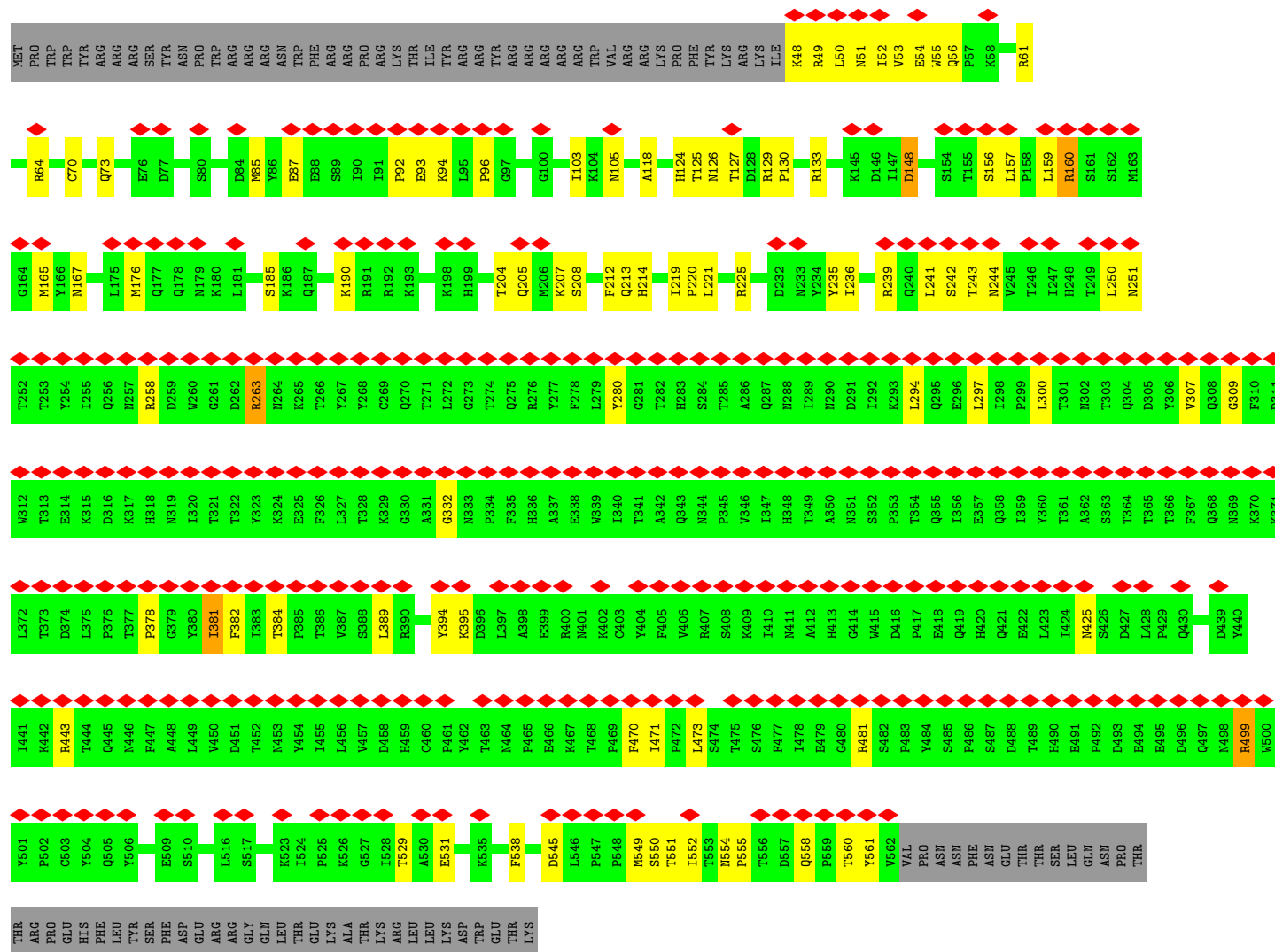
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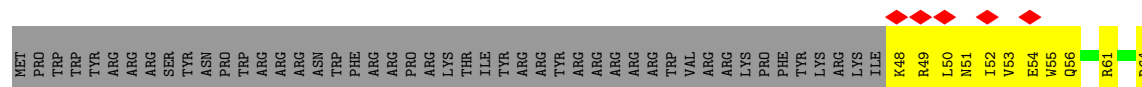


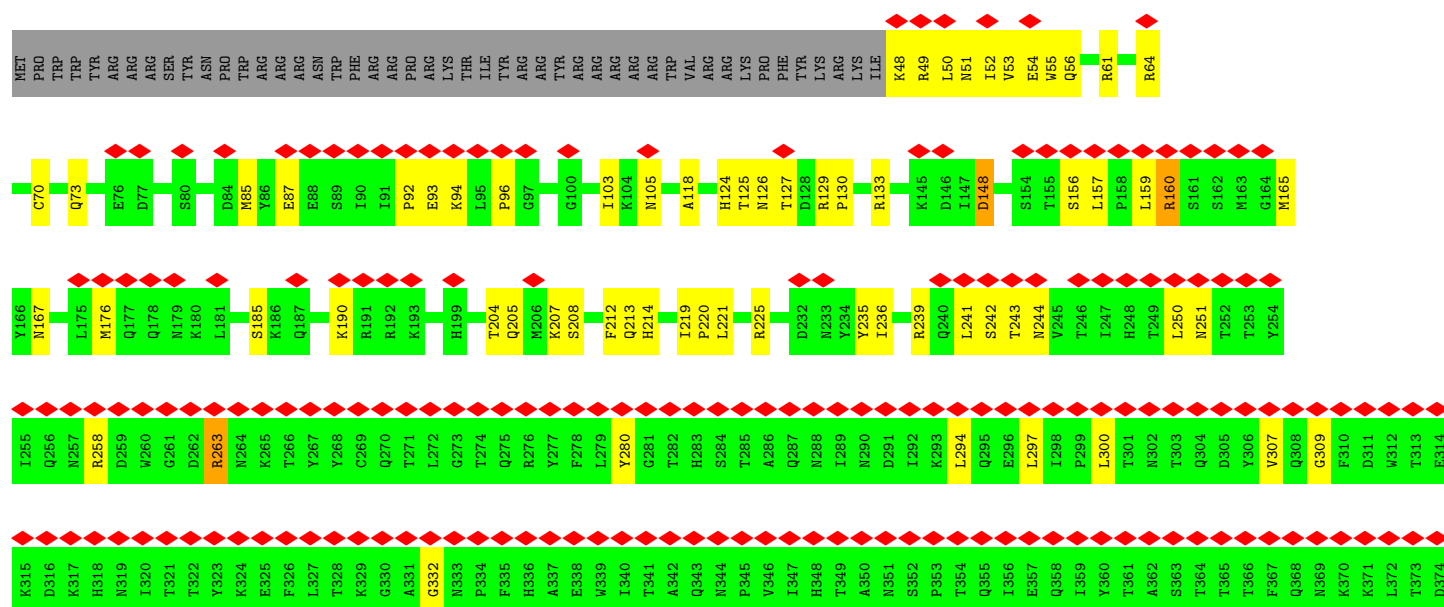


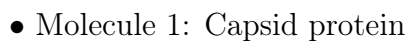
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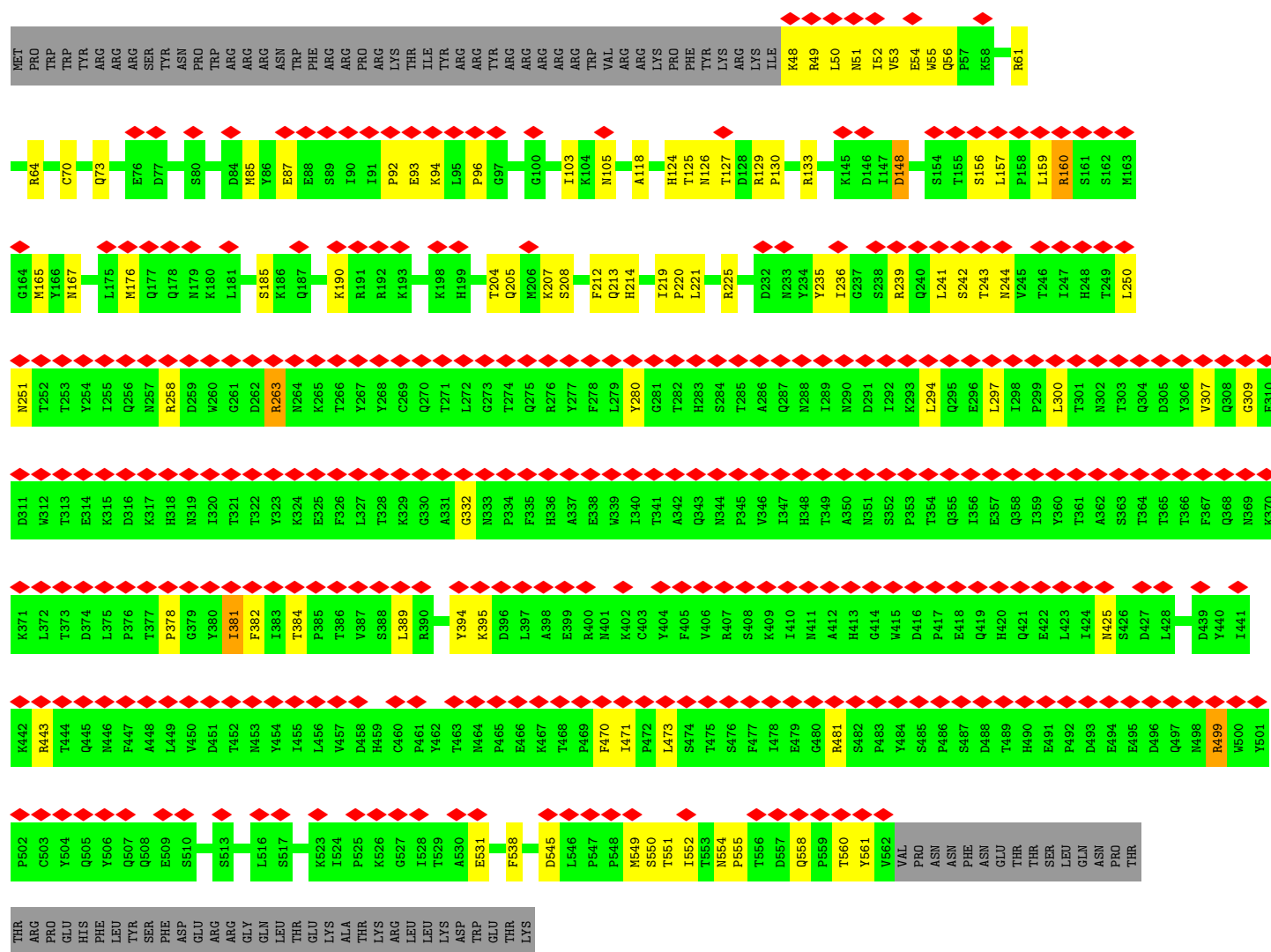


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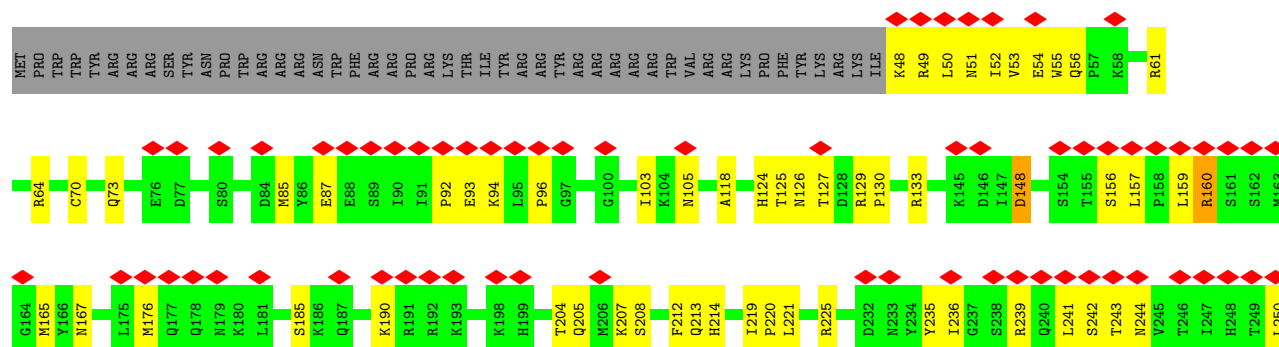


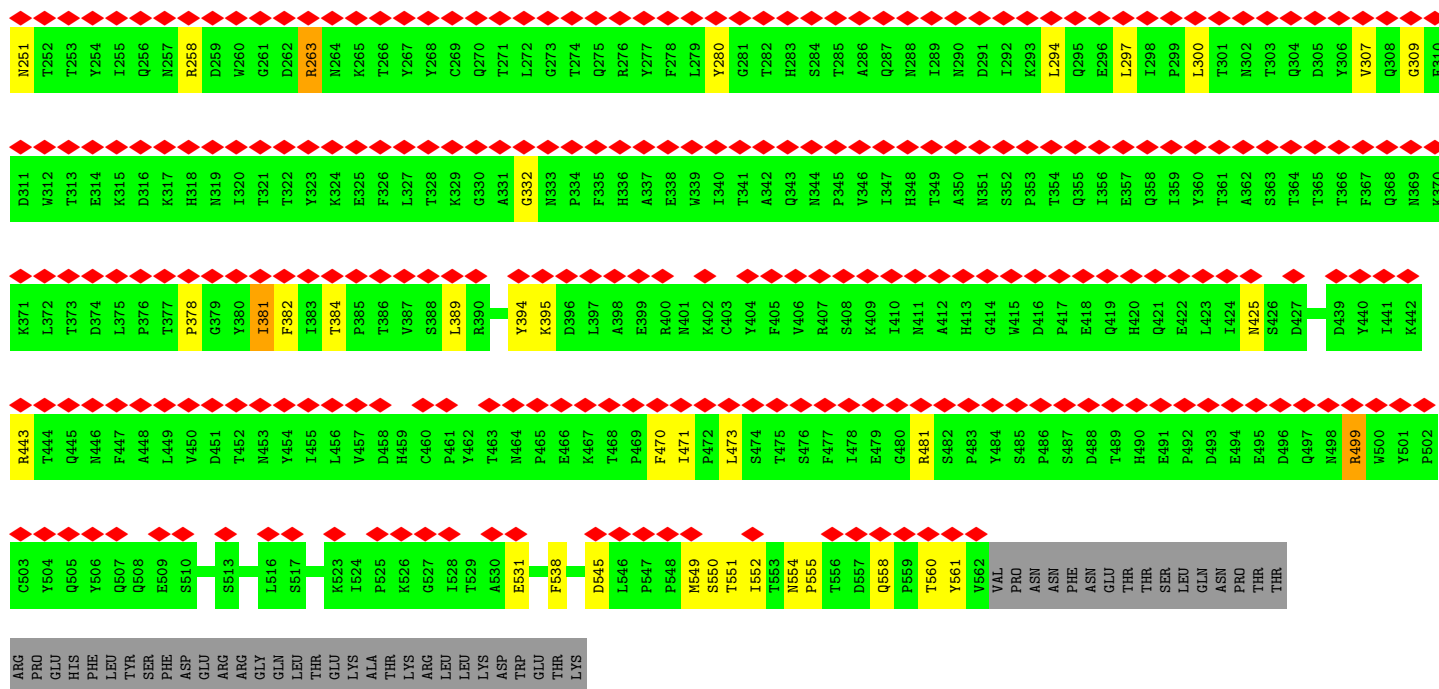




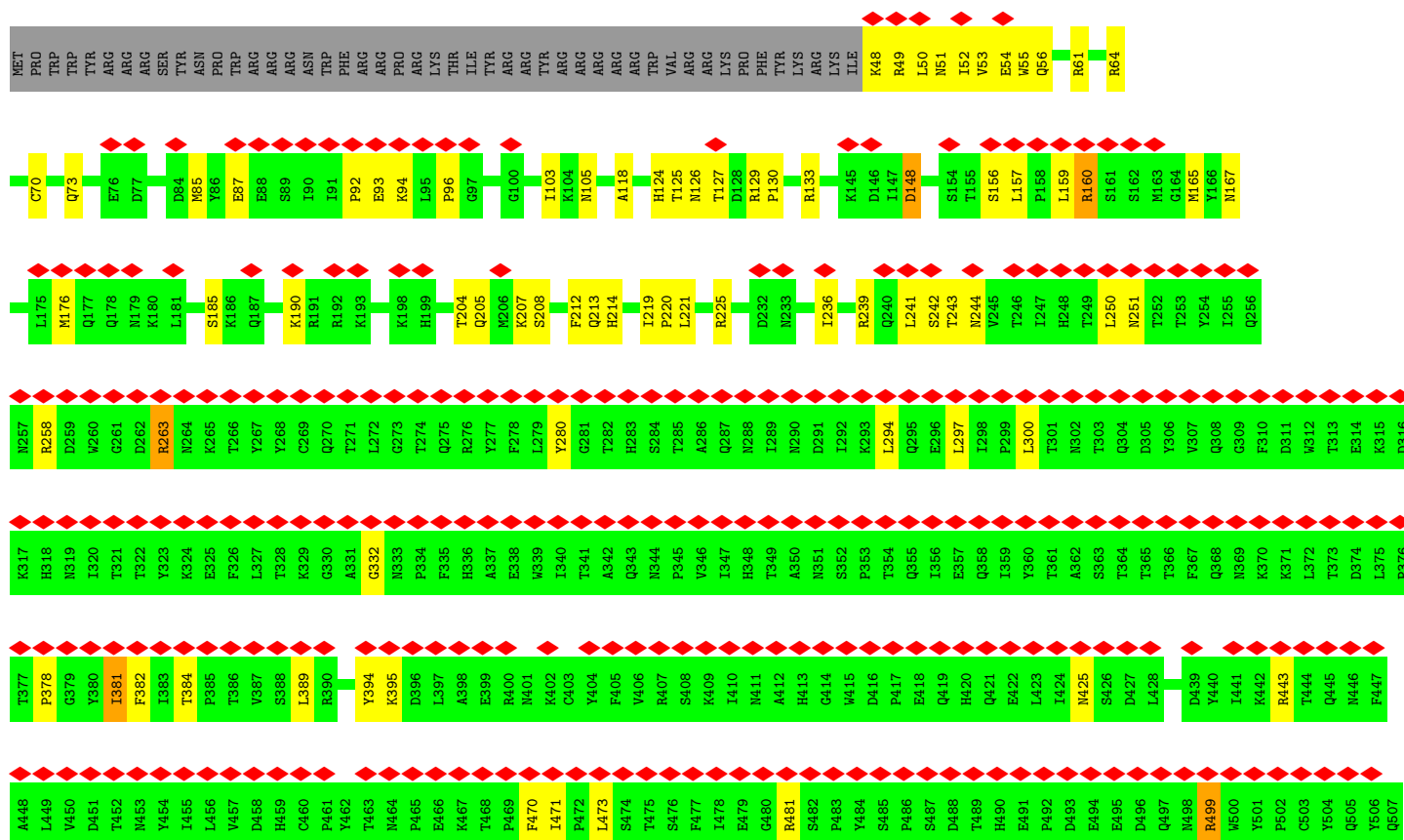


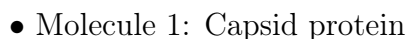
• Molecule 1: Capsid protein





• Molecule 1: Capsid protein

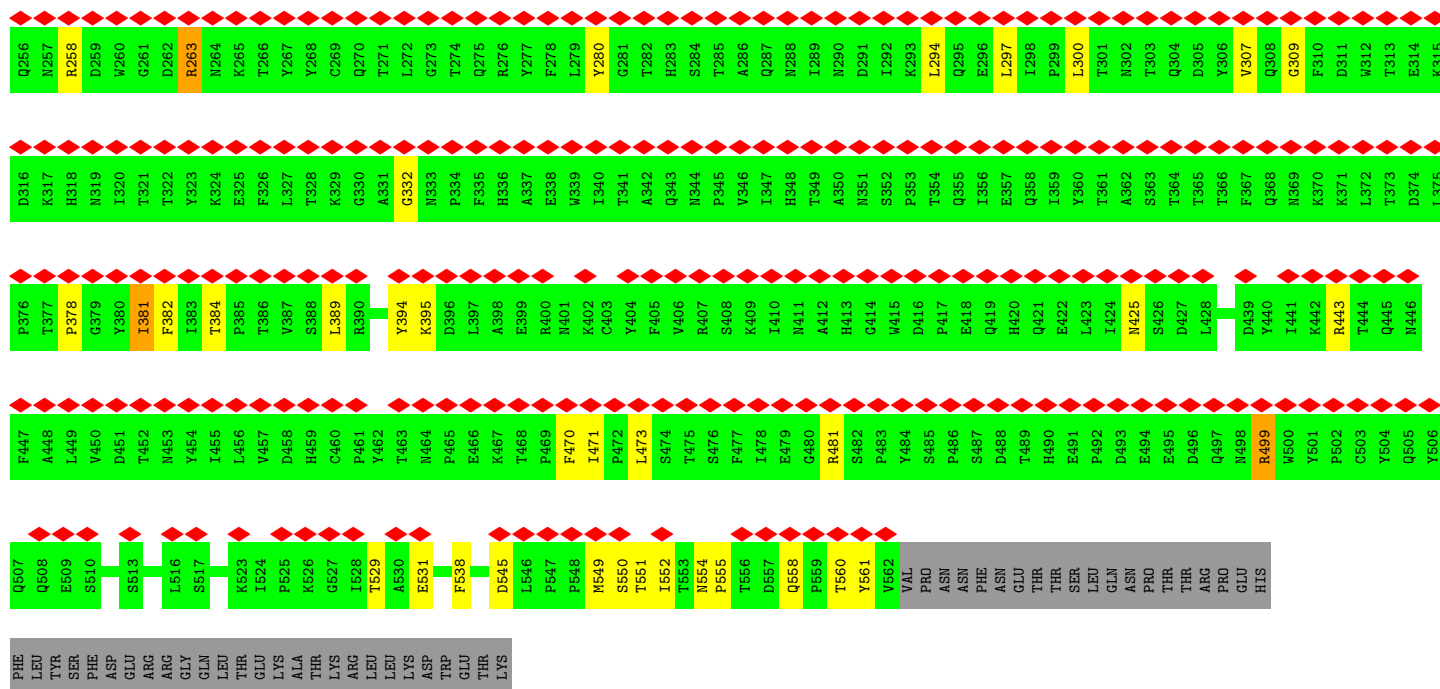




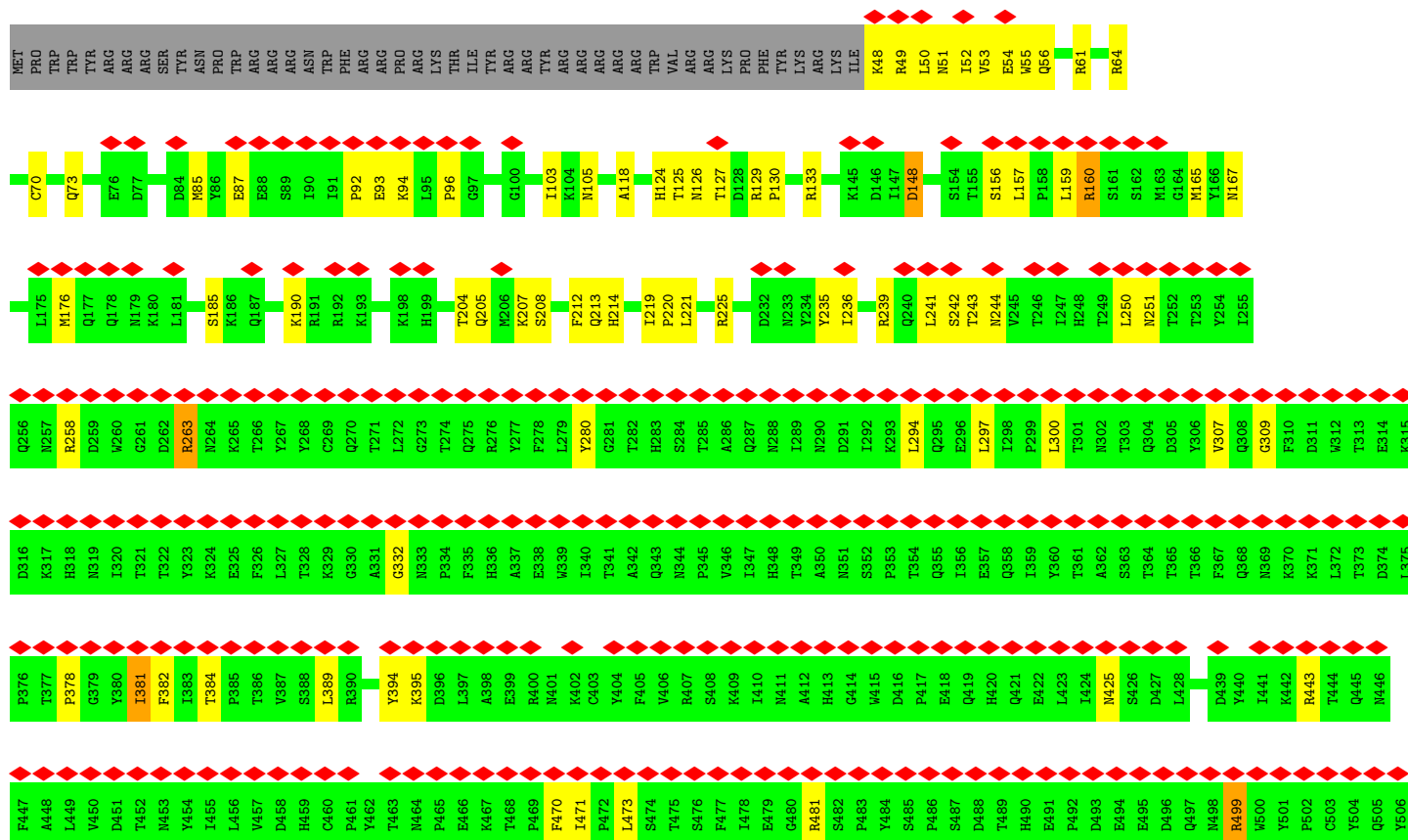
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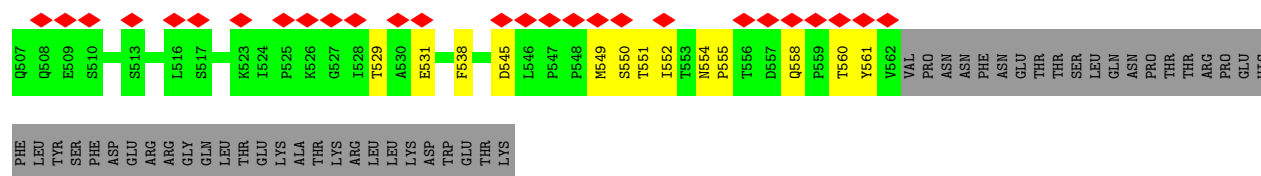
- Molecule 1: Capsid protein

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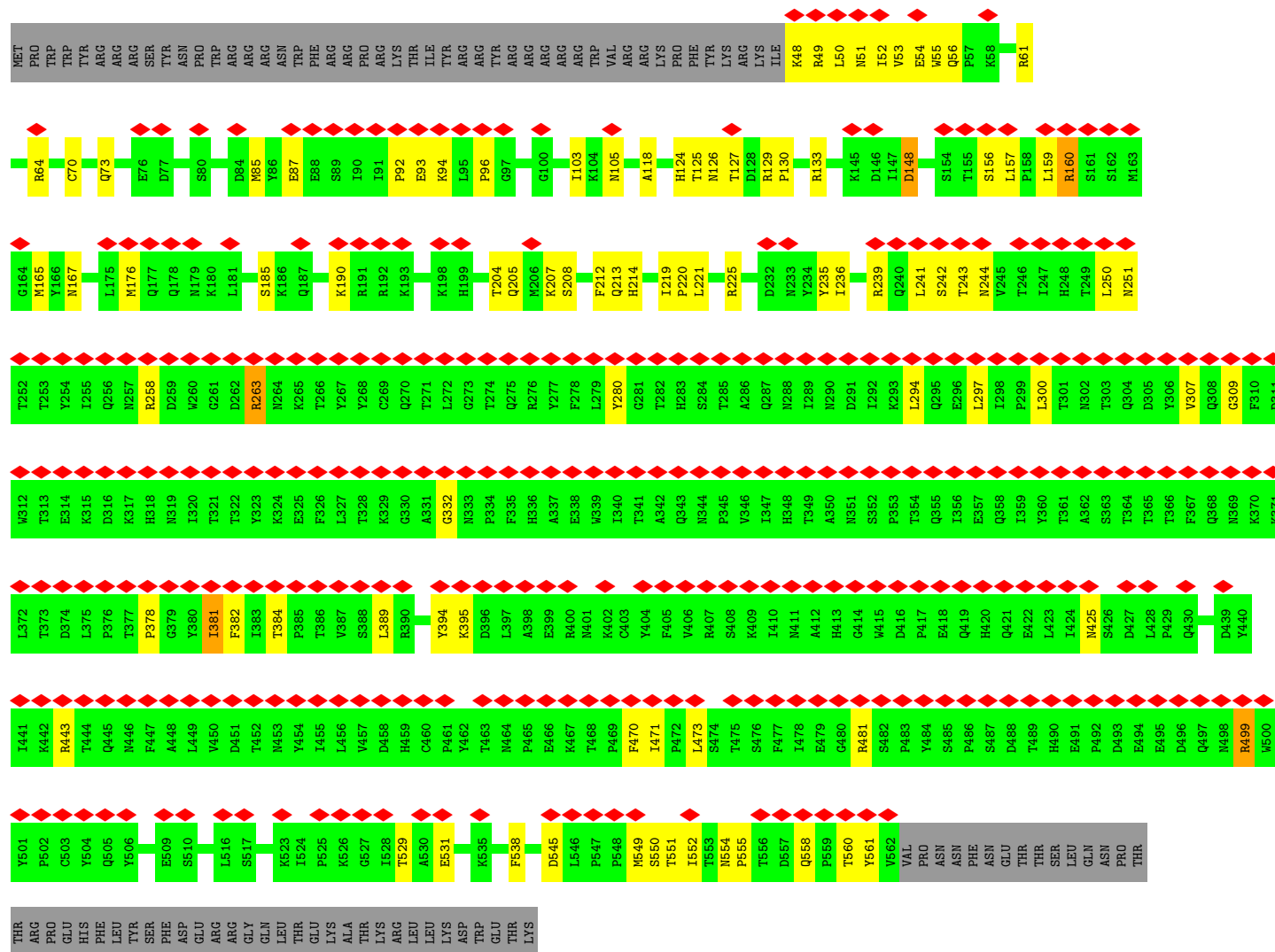


• Molecule 1: Capsid protein



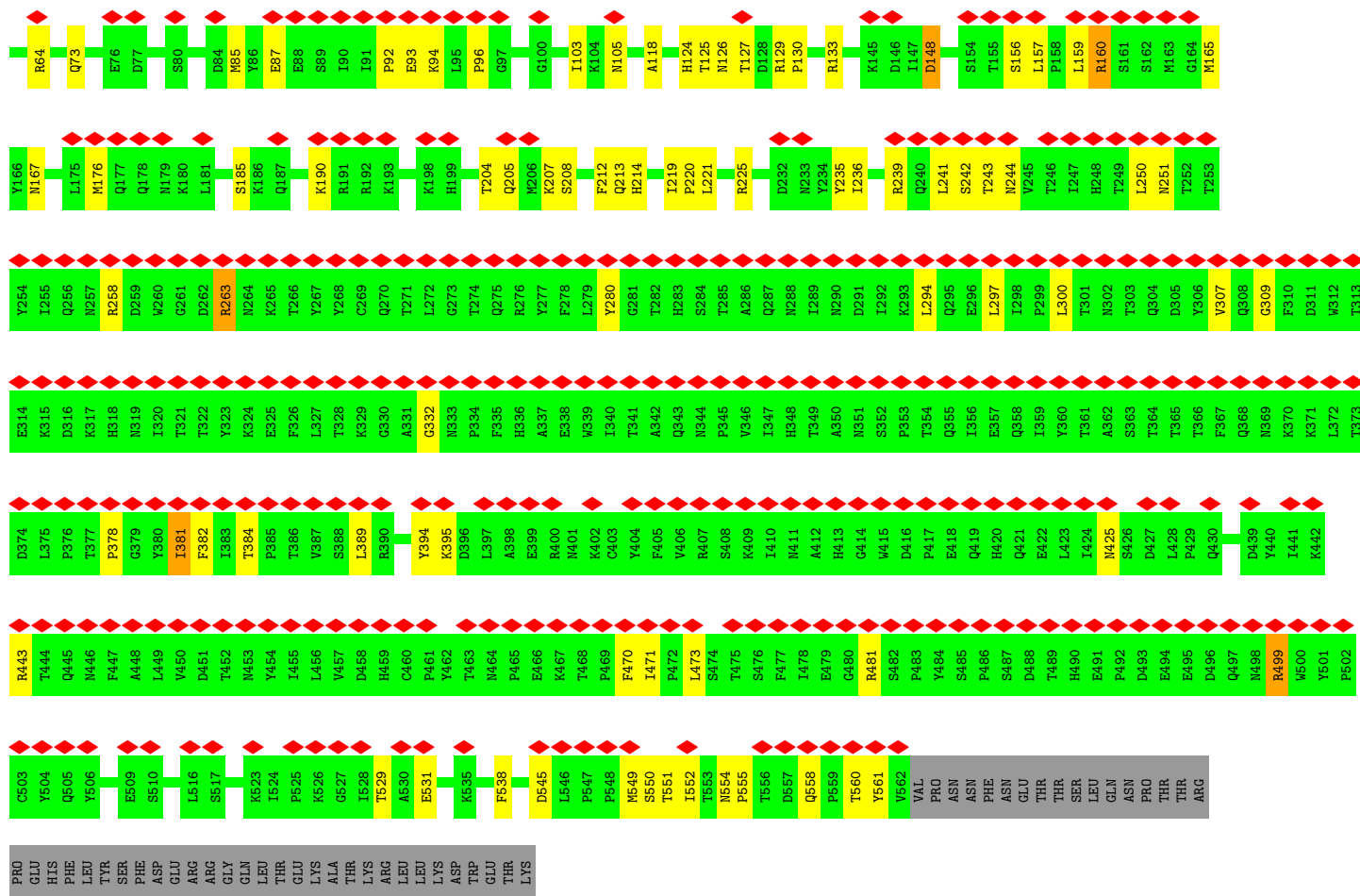


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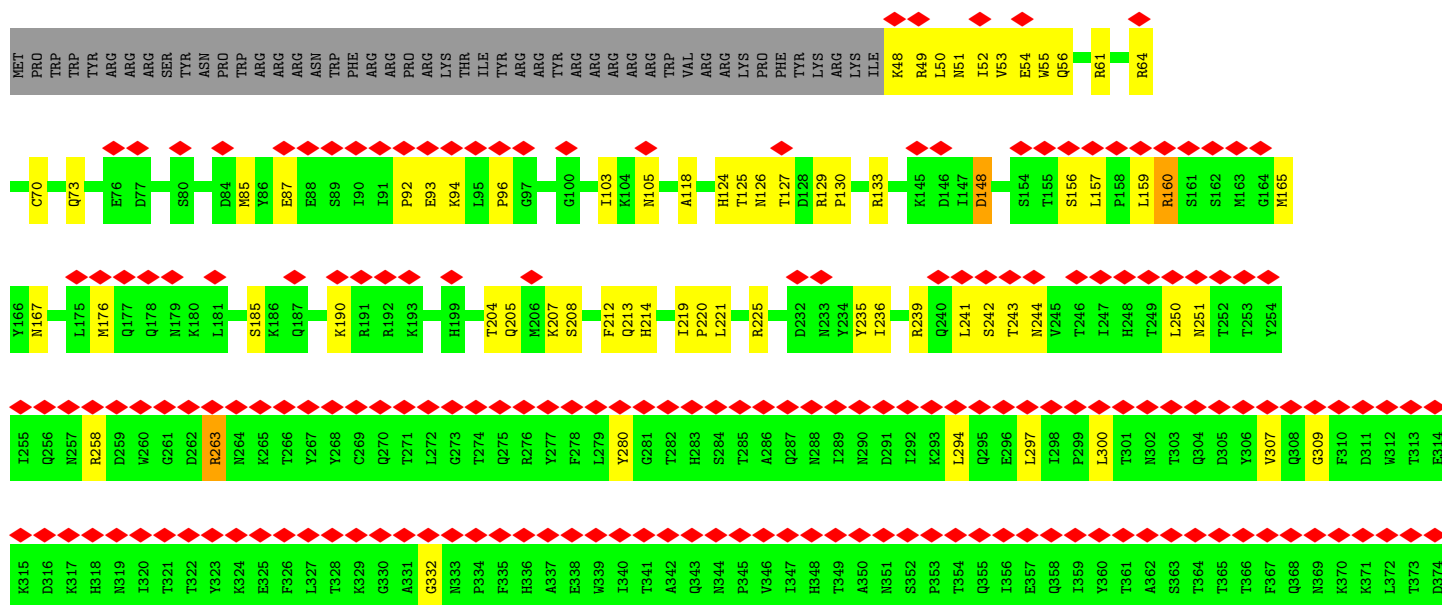


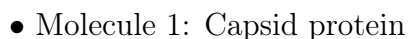
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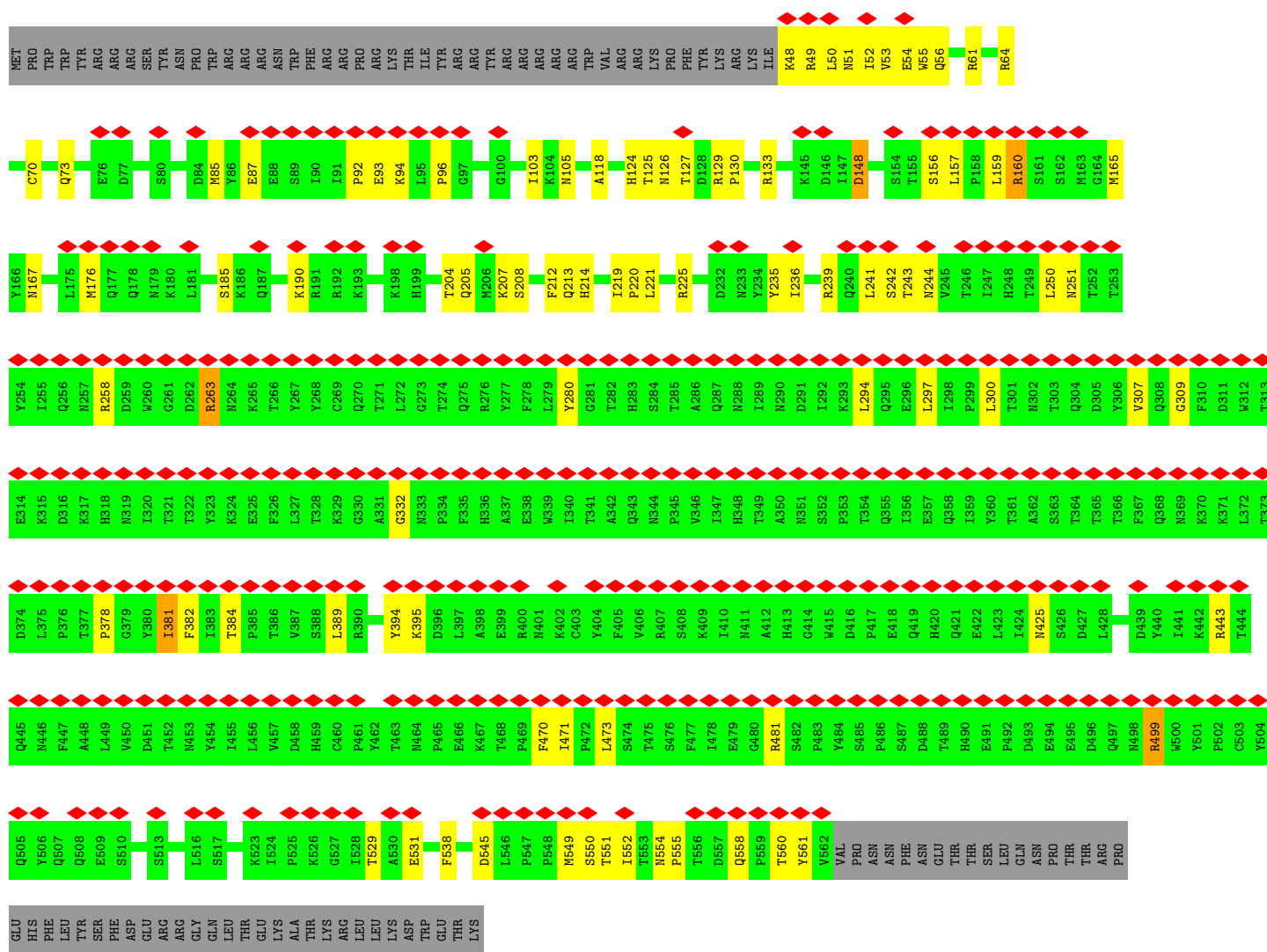




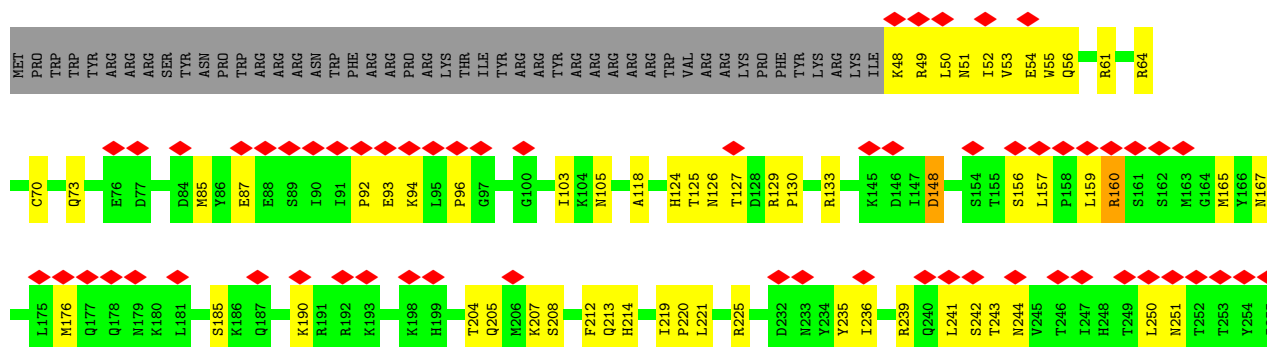
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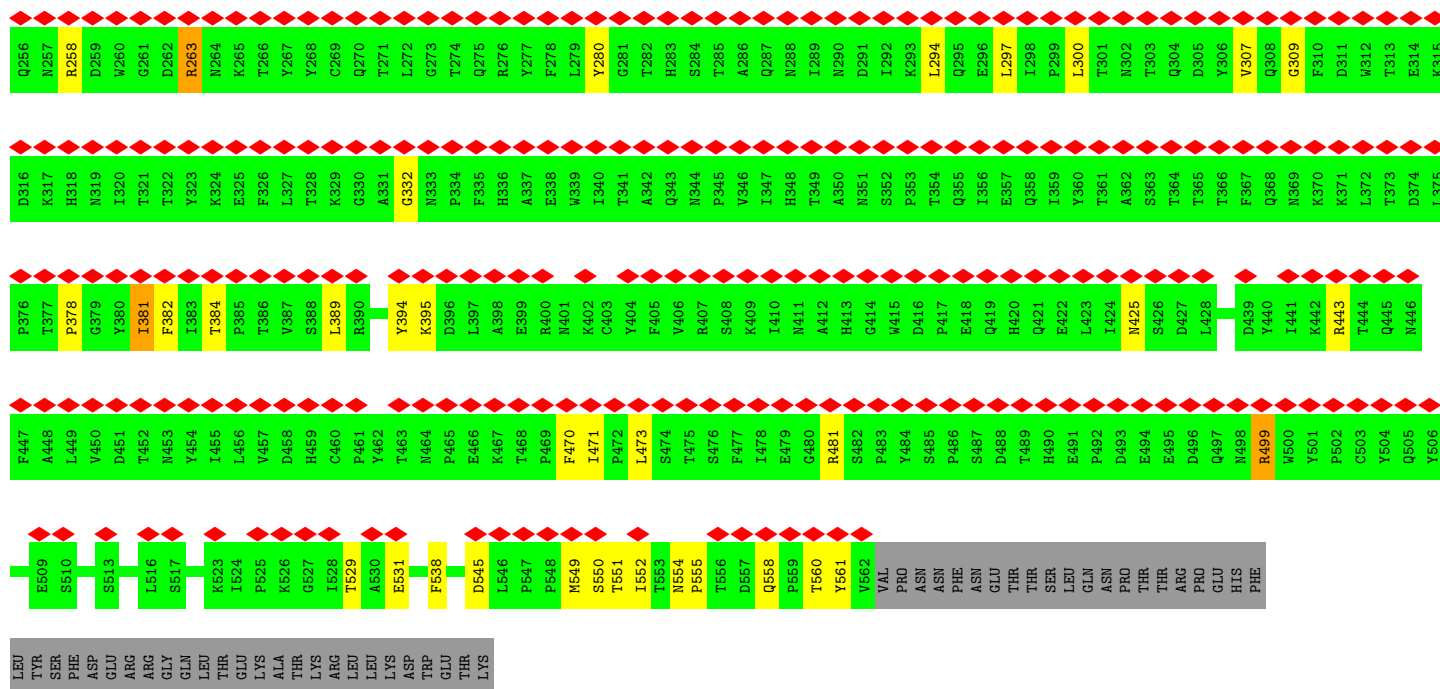




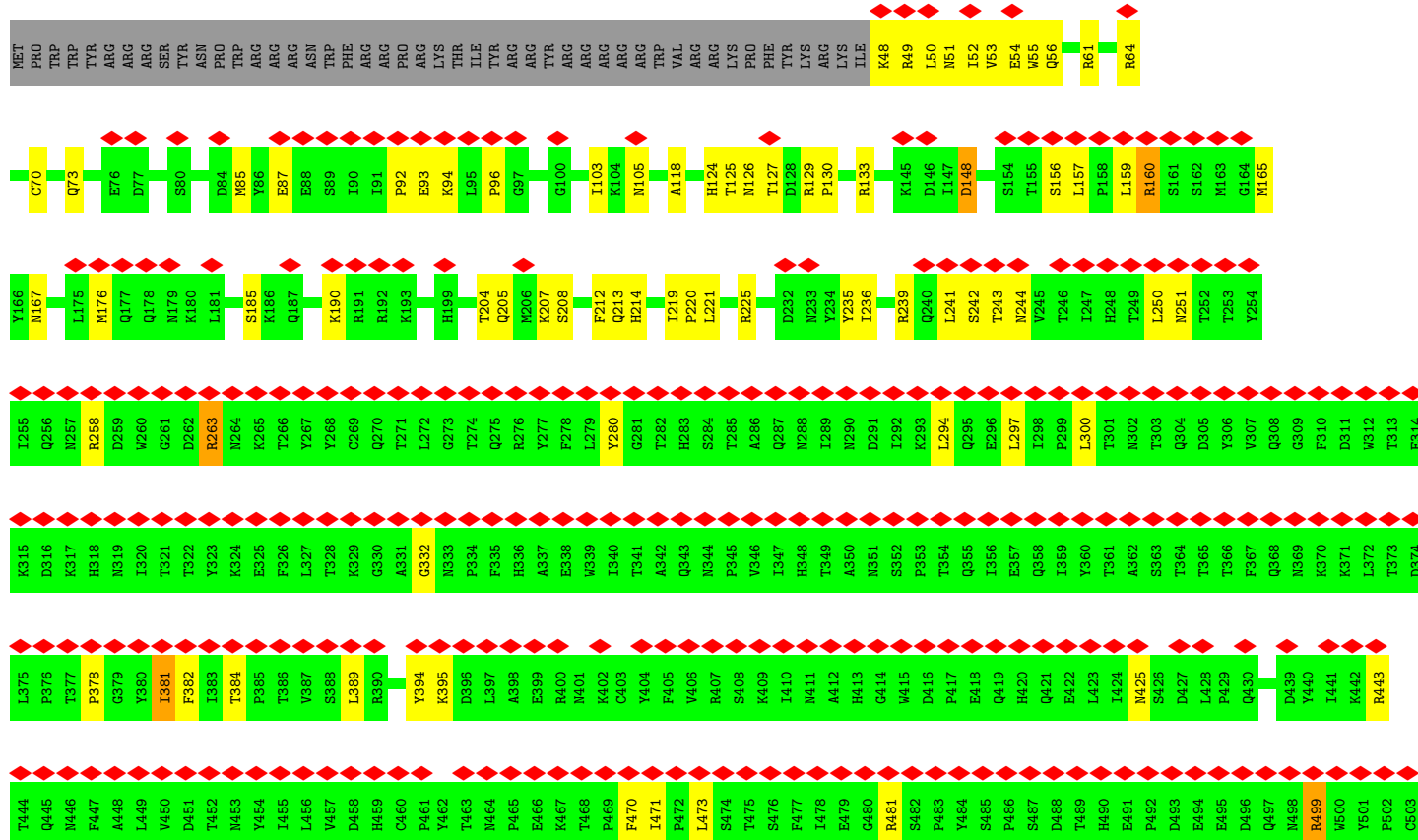


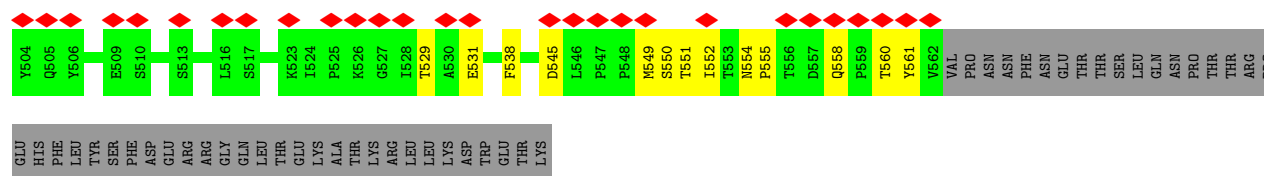
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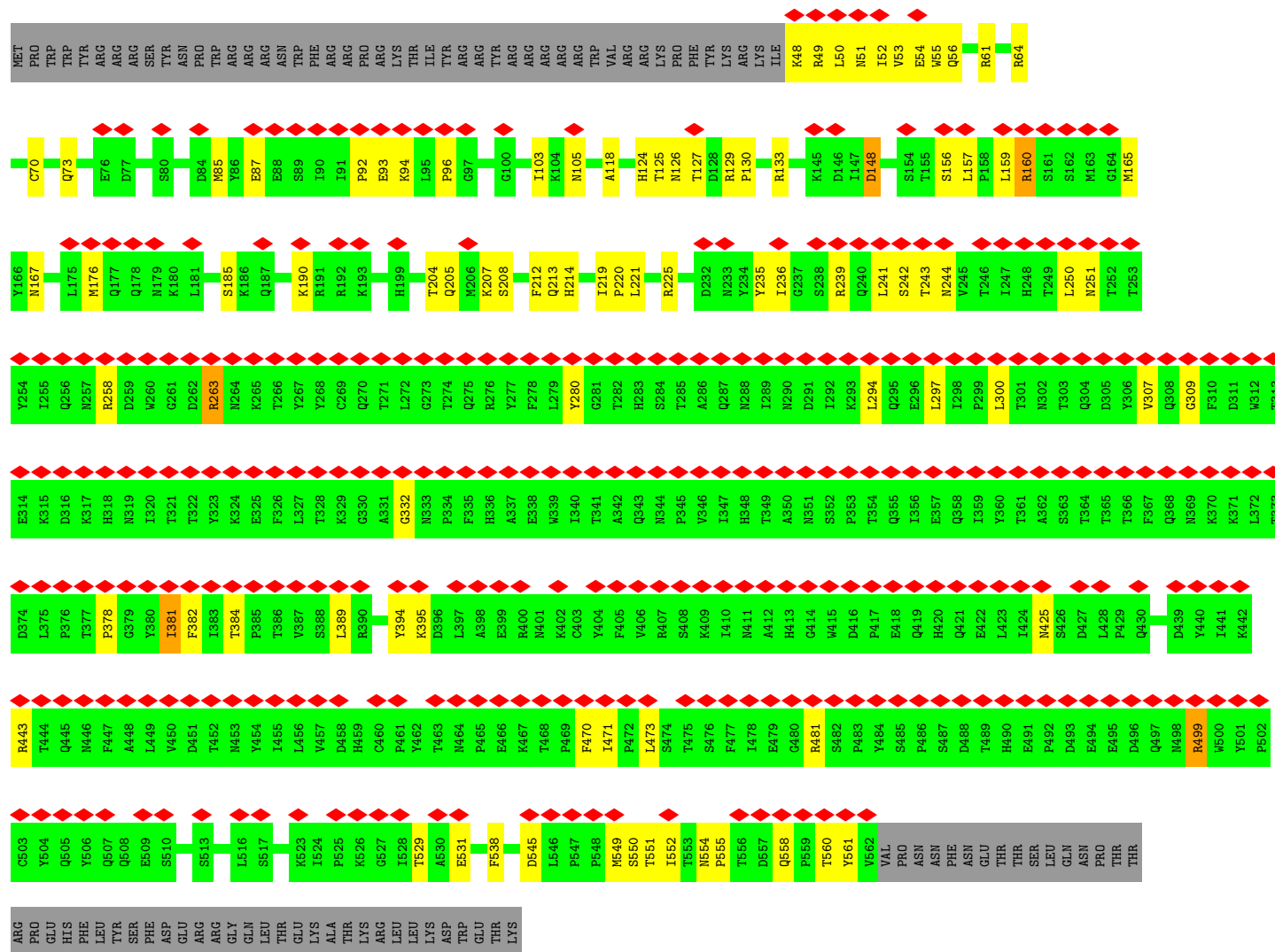


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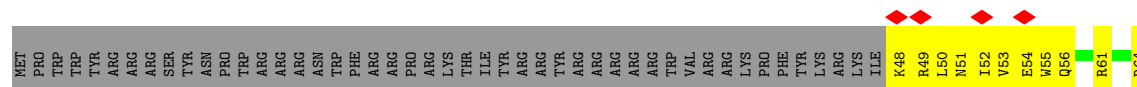


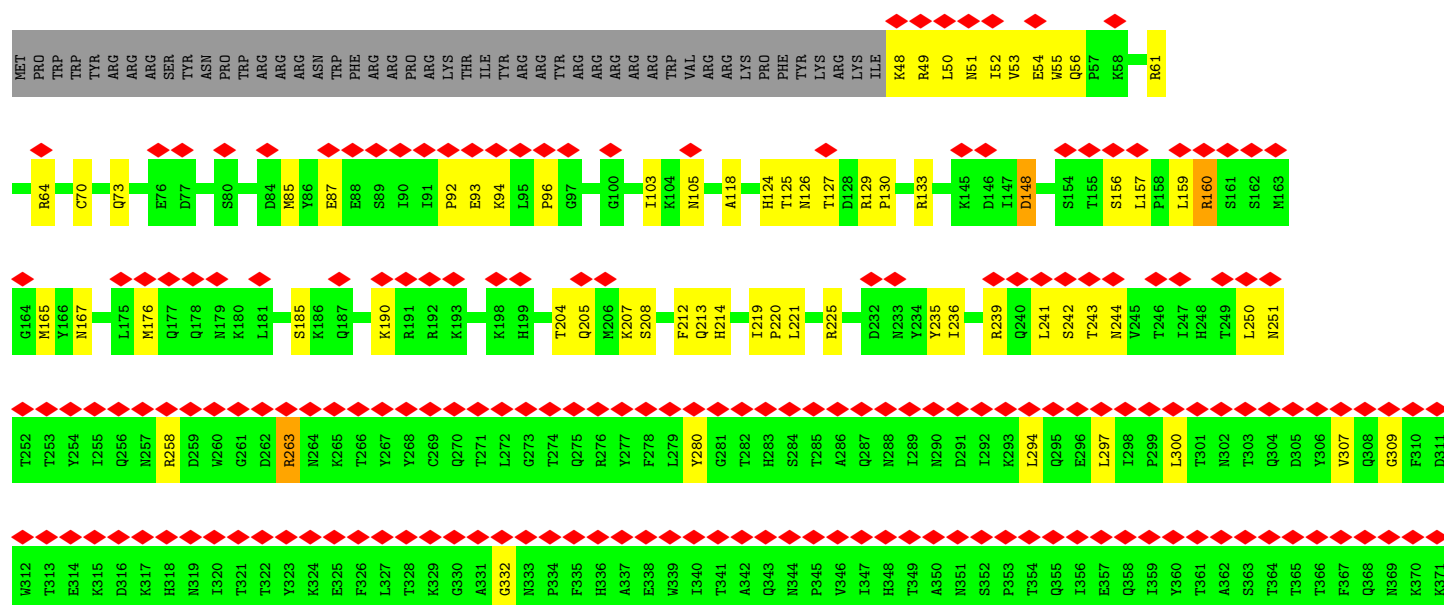


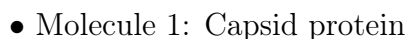
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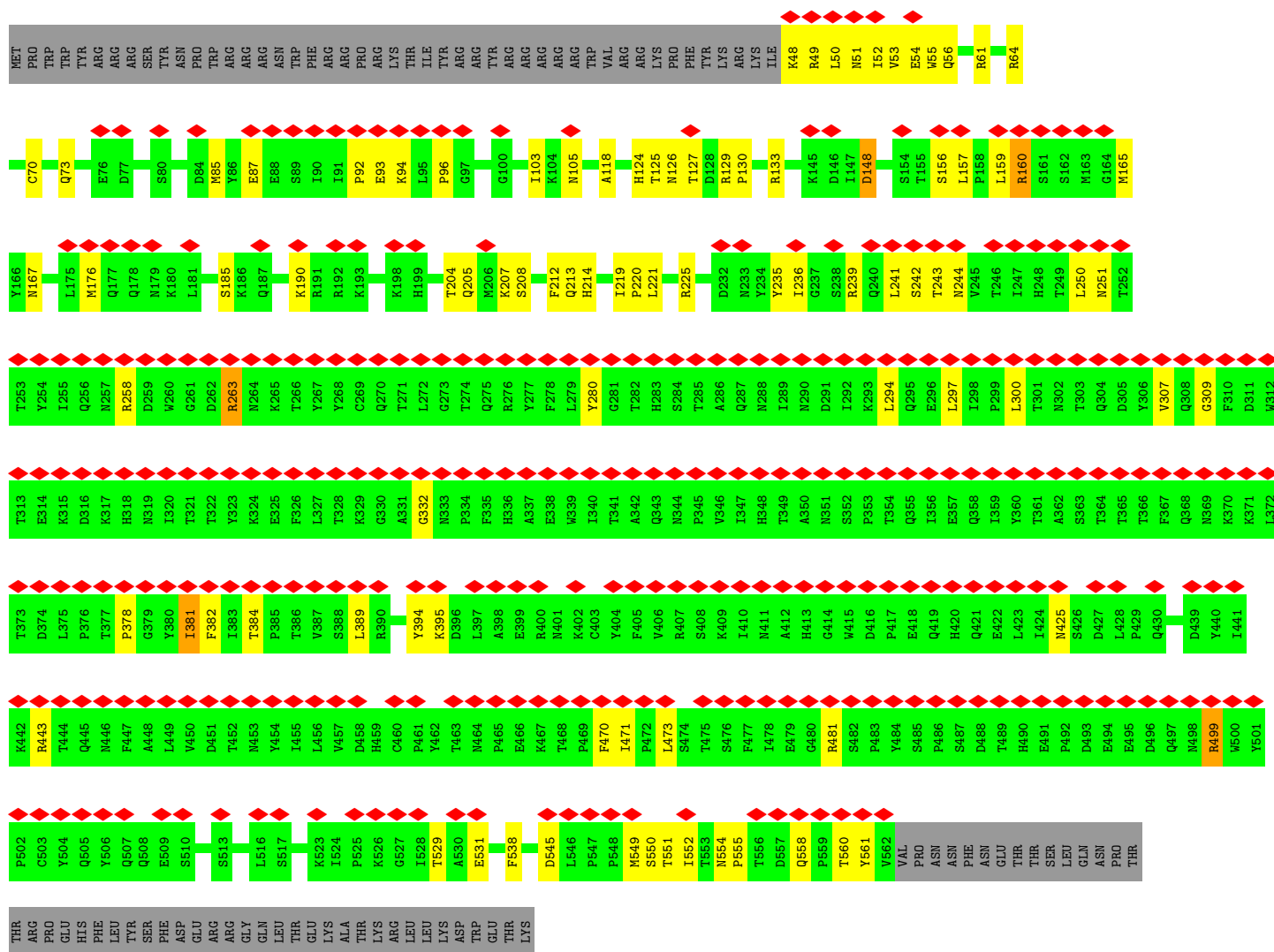


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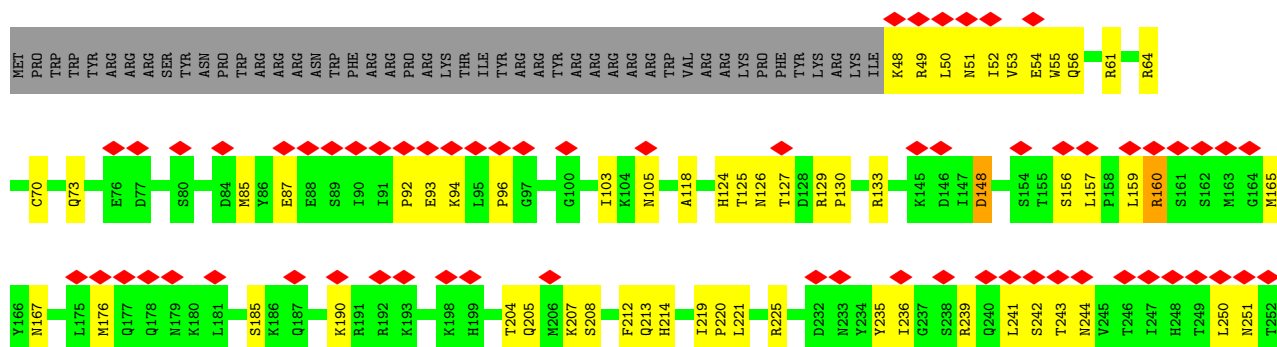


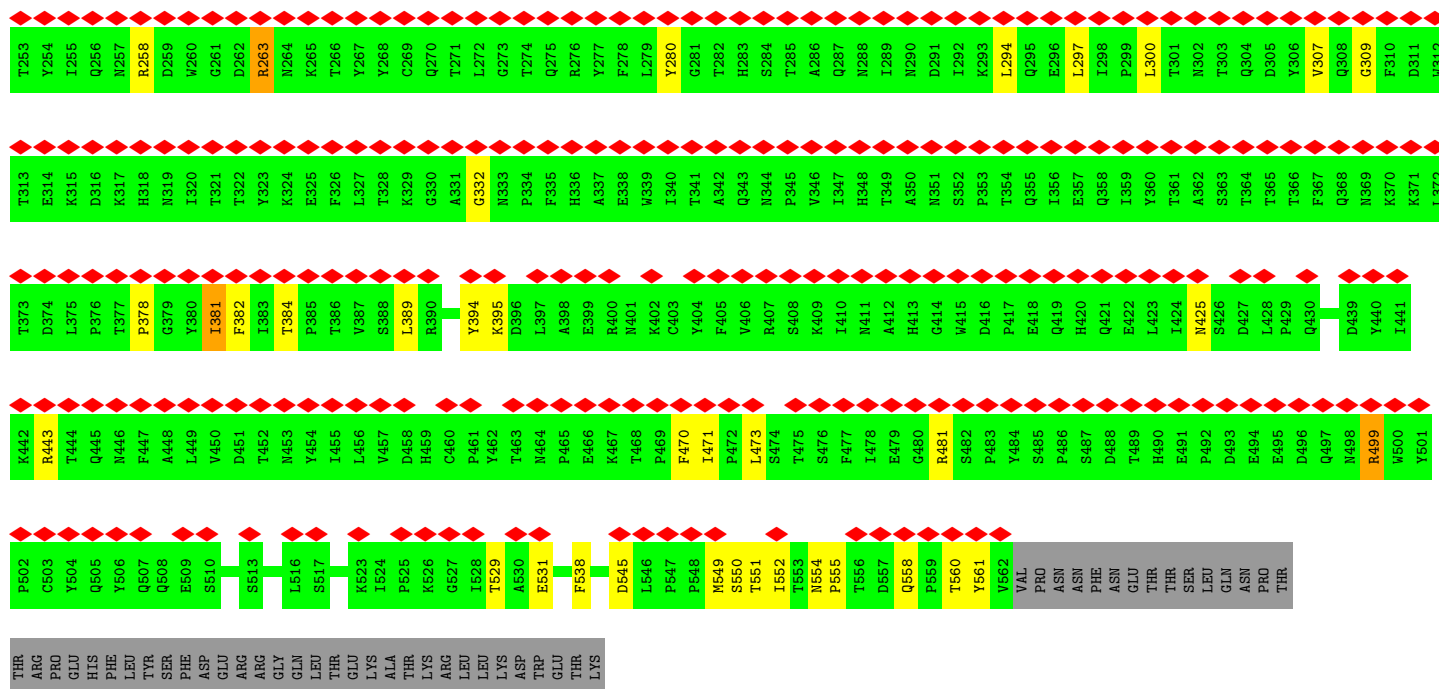




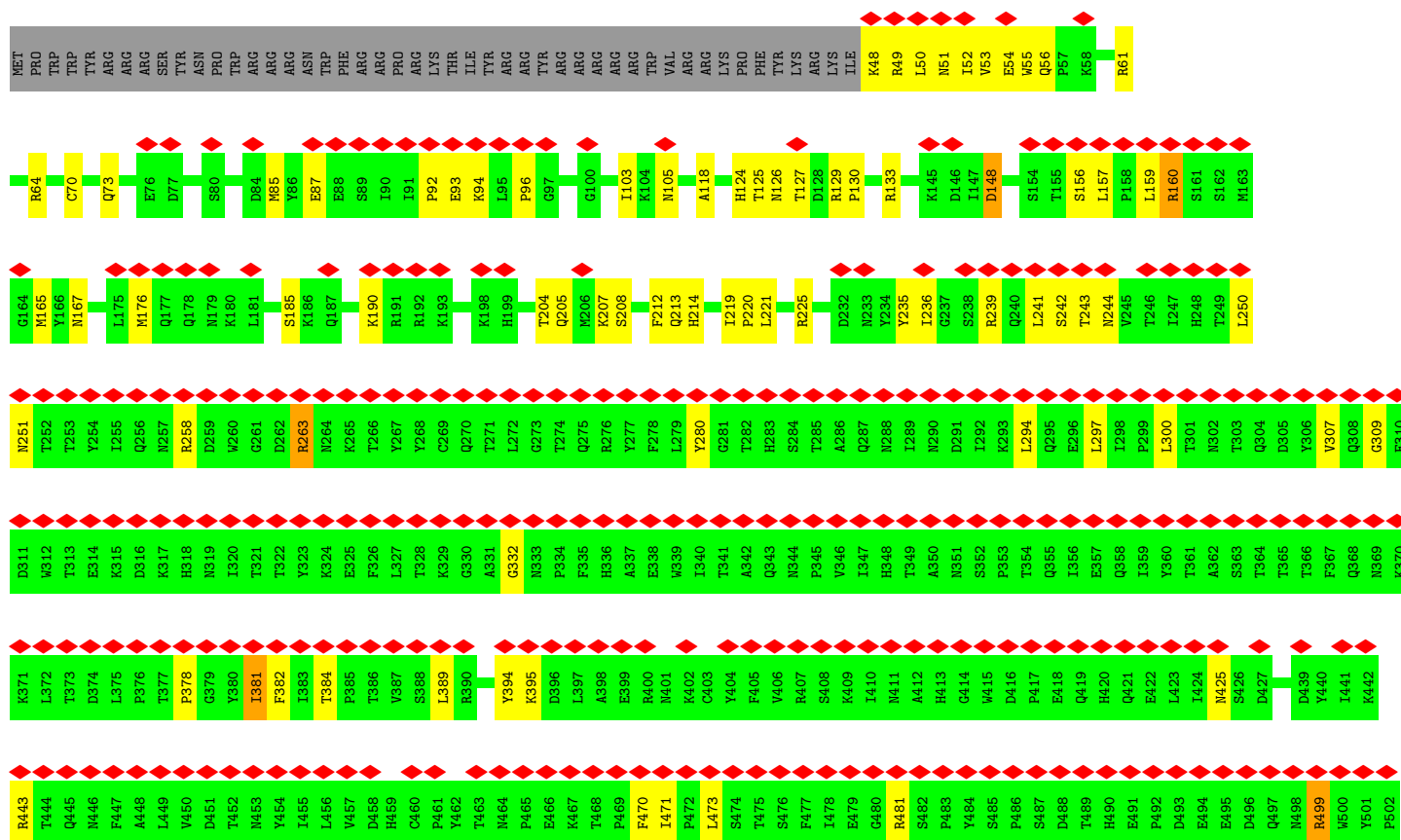


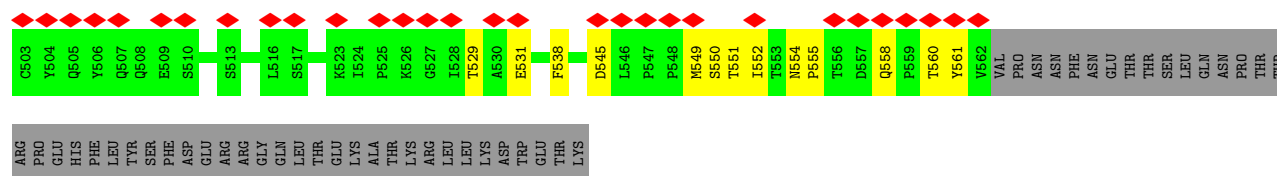
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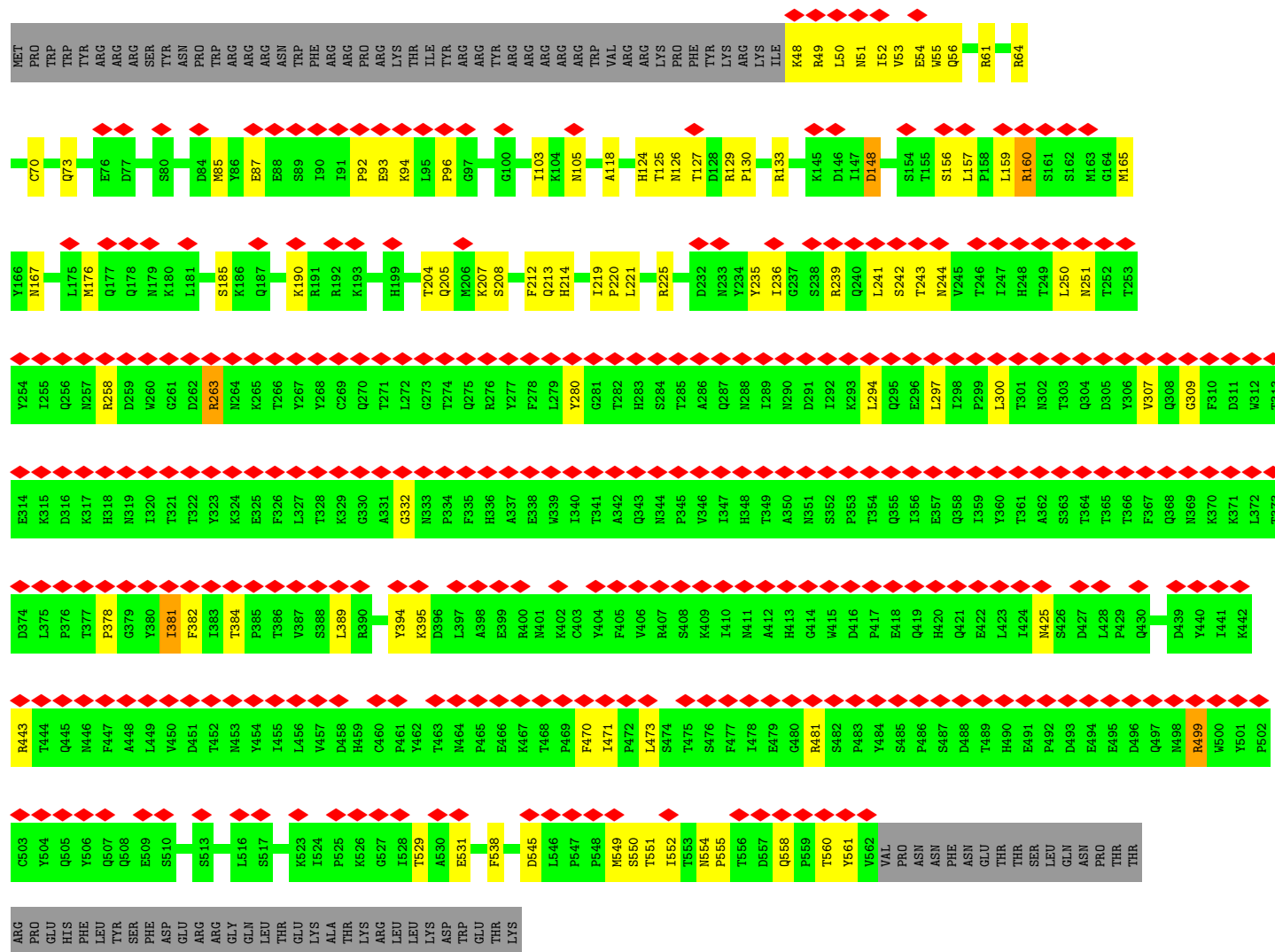


• Molecule 1: Capsid protein



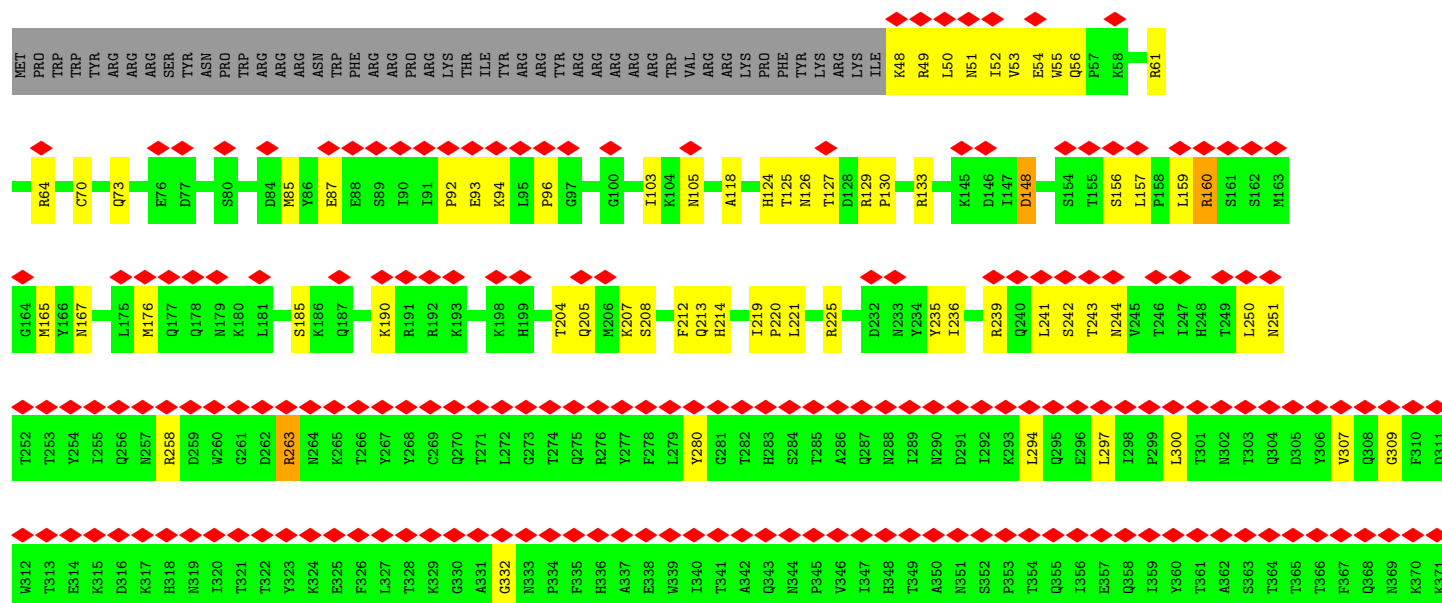


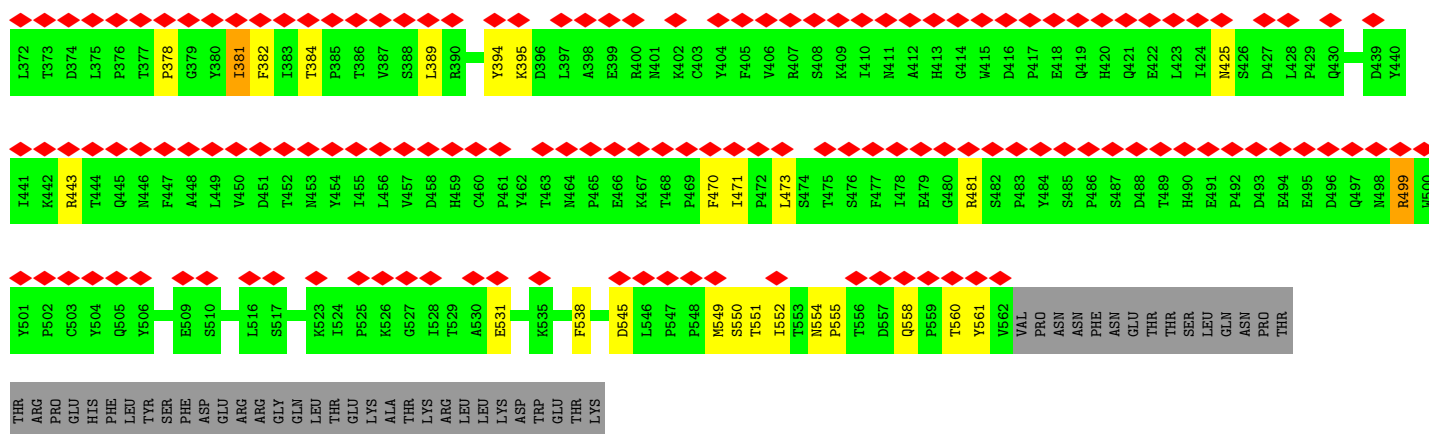
• Molecule 1: Capsid protein



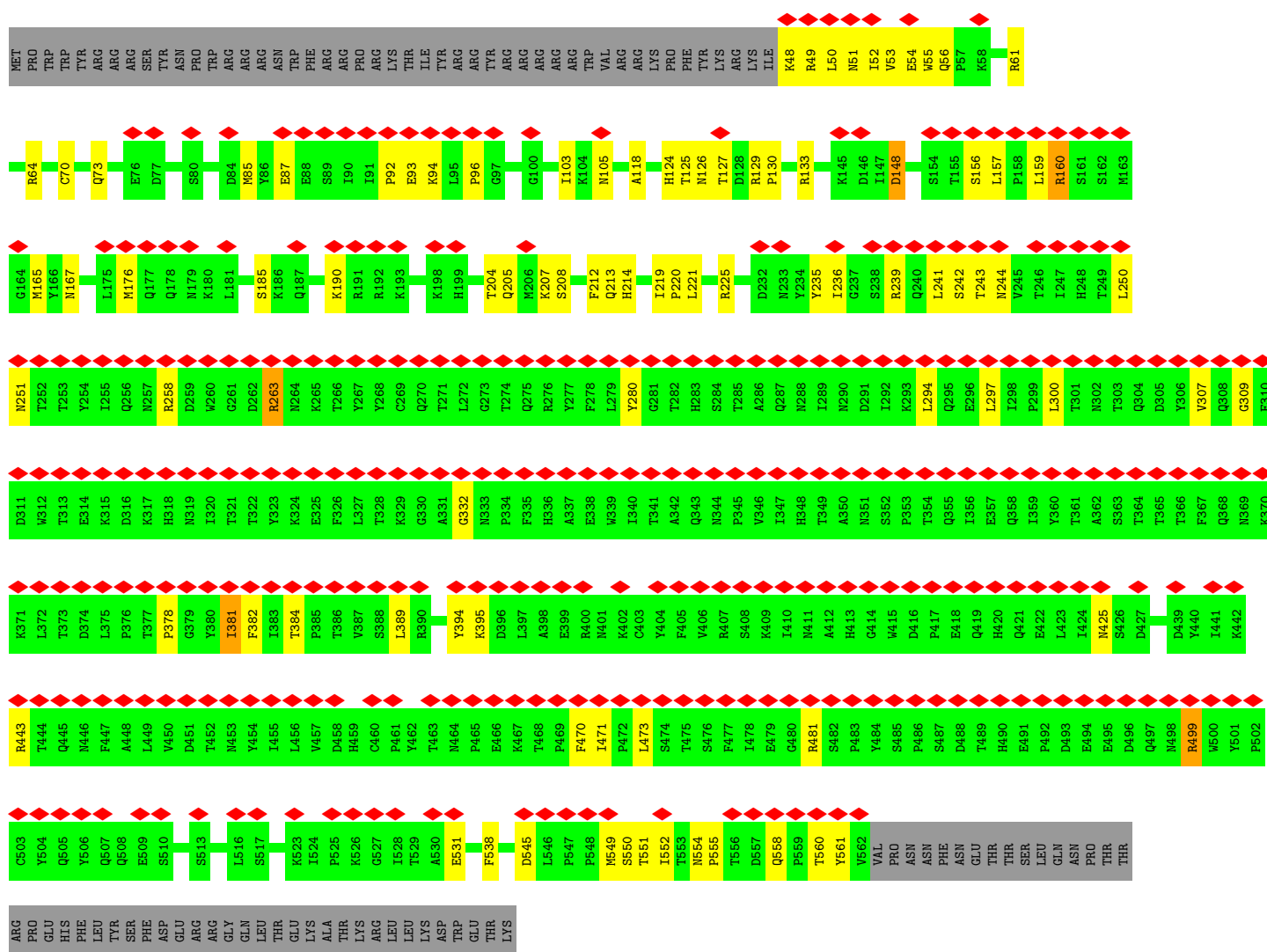
• Molecule 1: Capsid protein



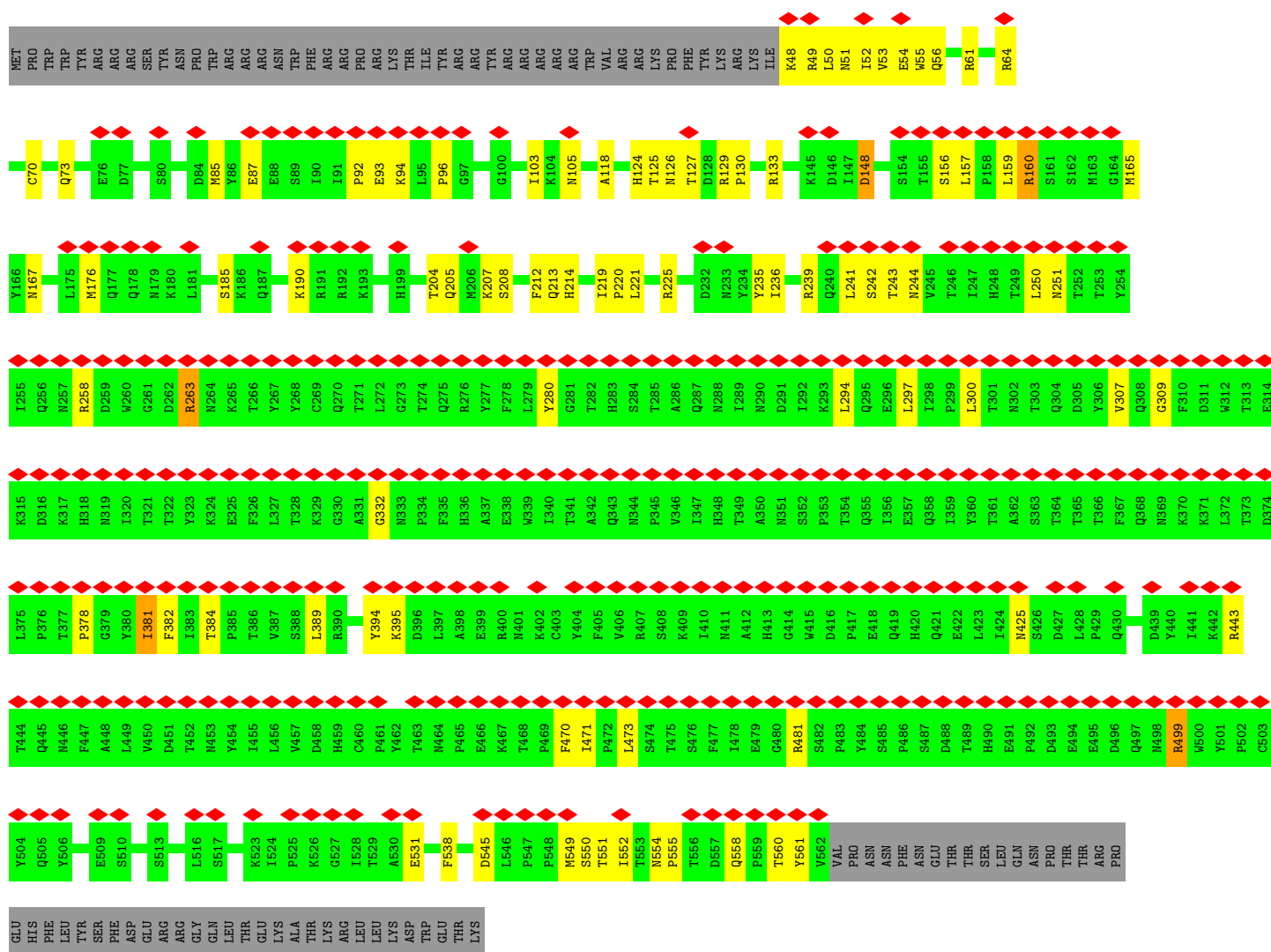




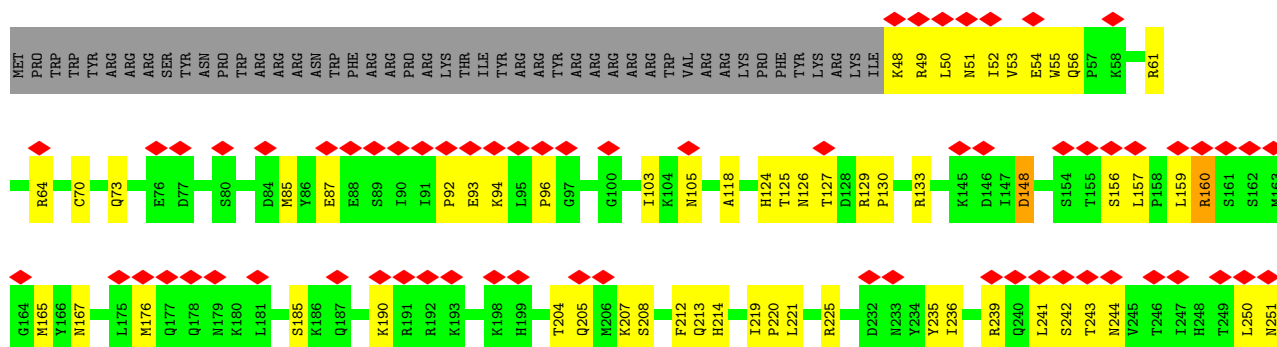
• Molecule 1: Capsid protein

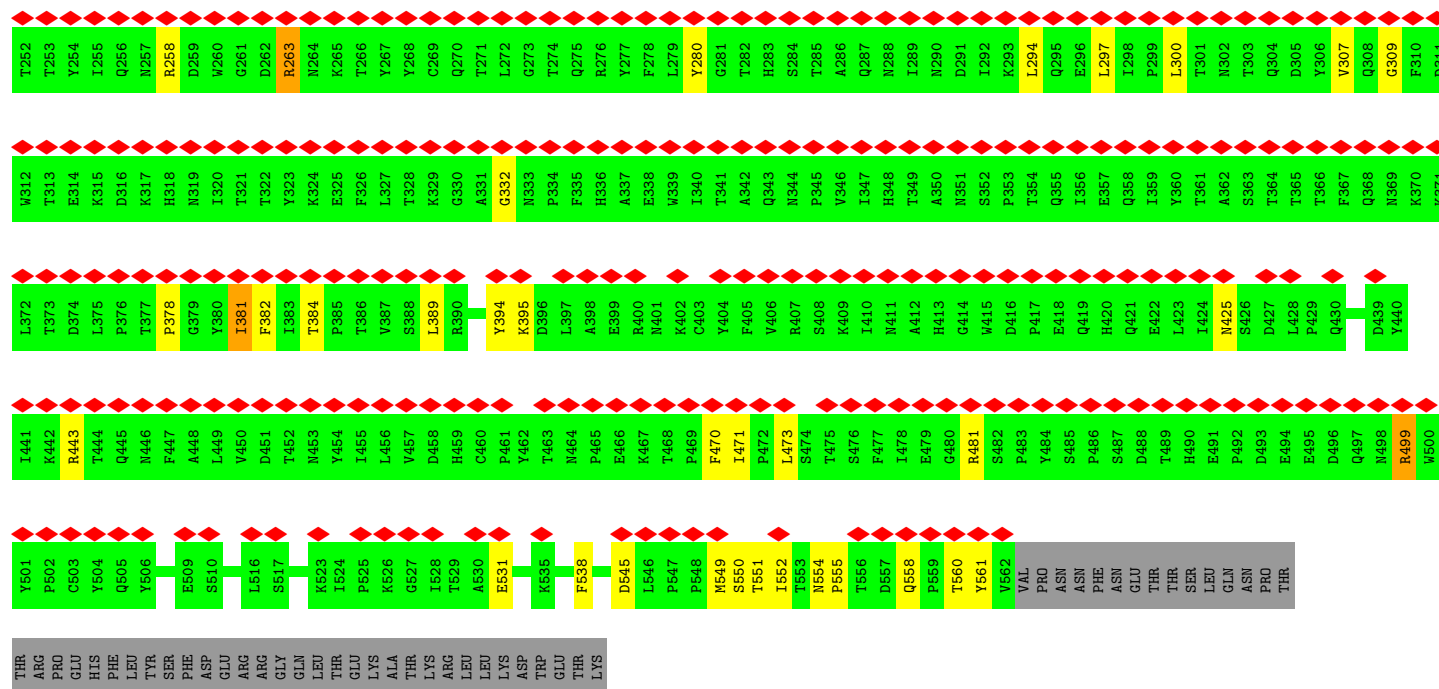


• Molecule 1: Capsid protein

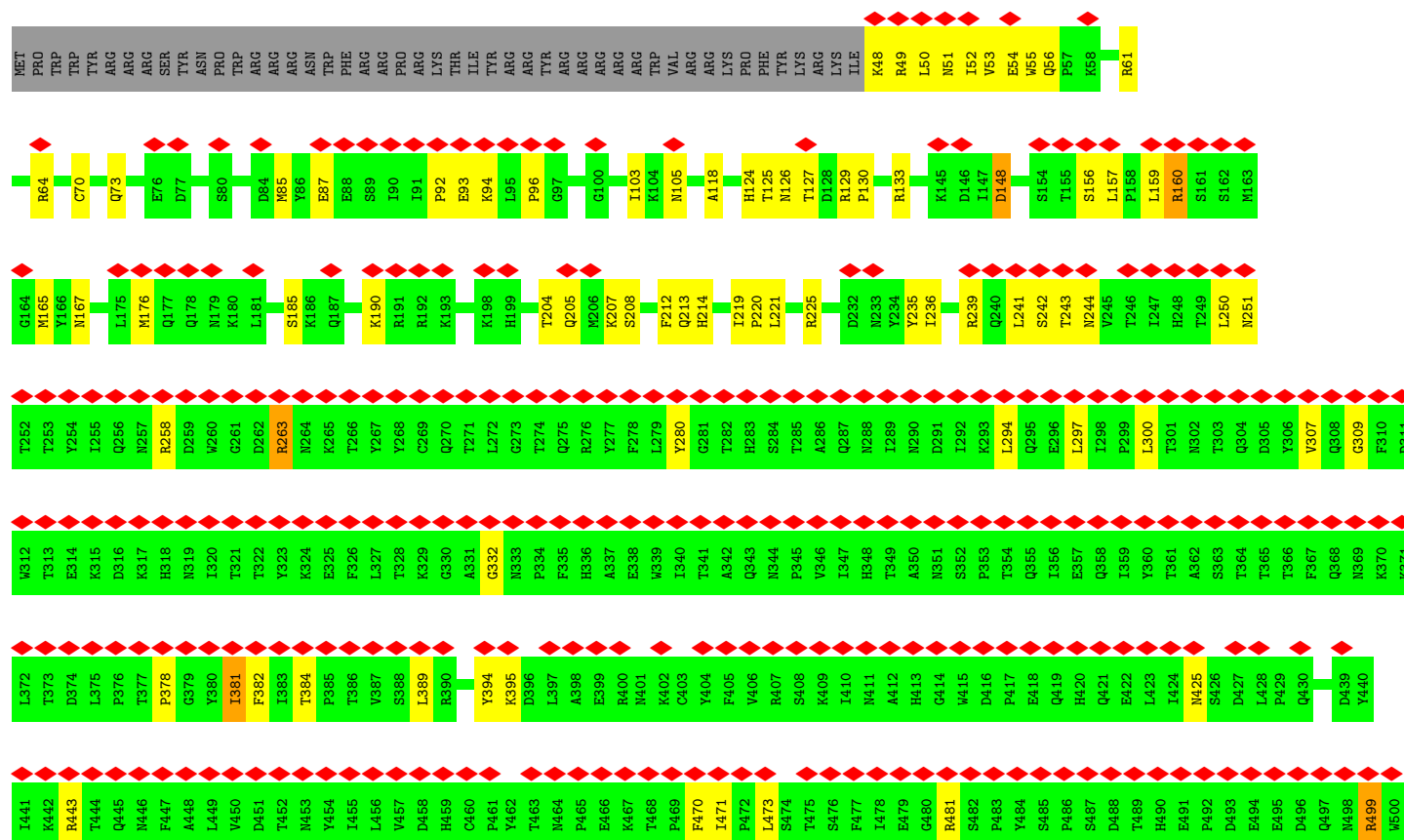


• Molecule 1: Capsid protein

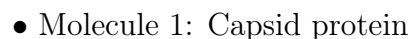


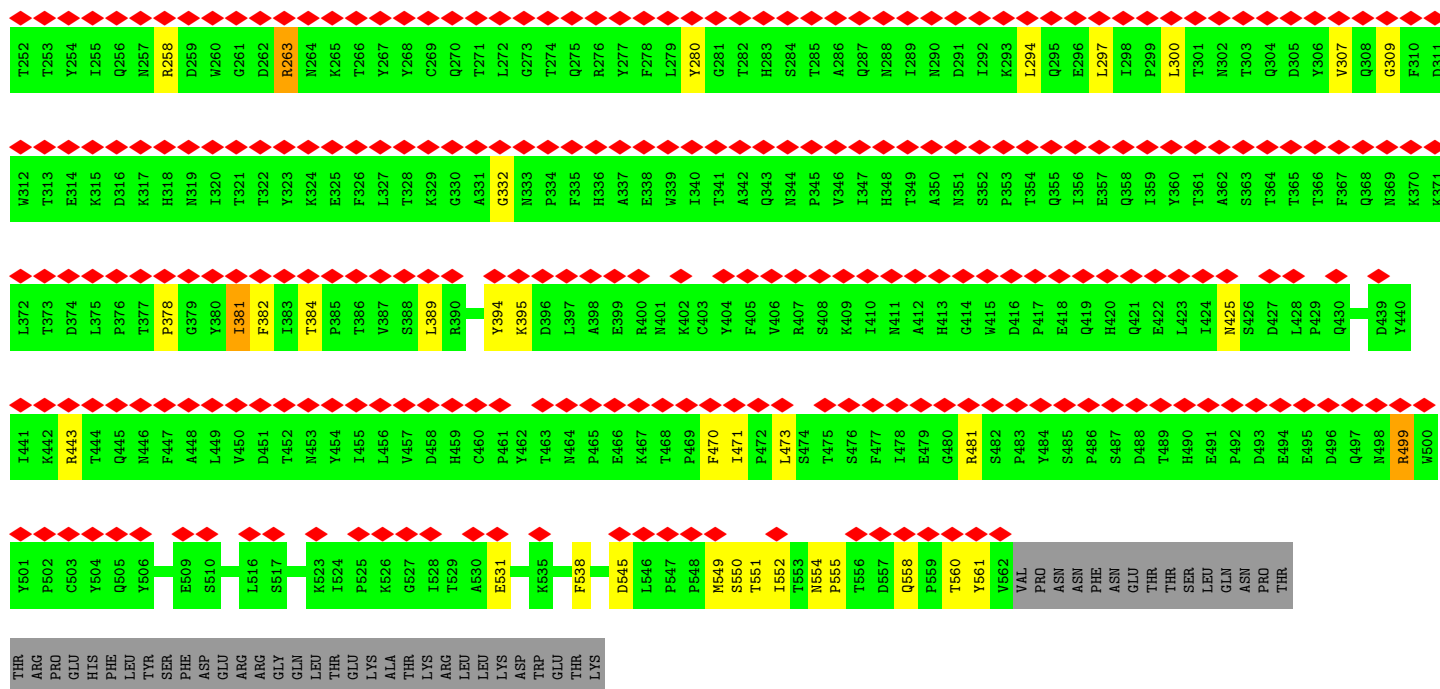


• Molecule 1: Capsid protein

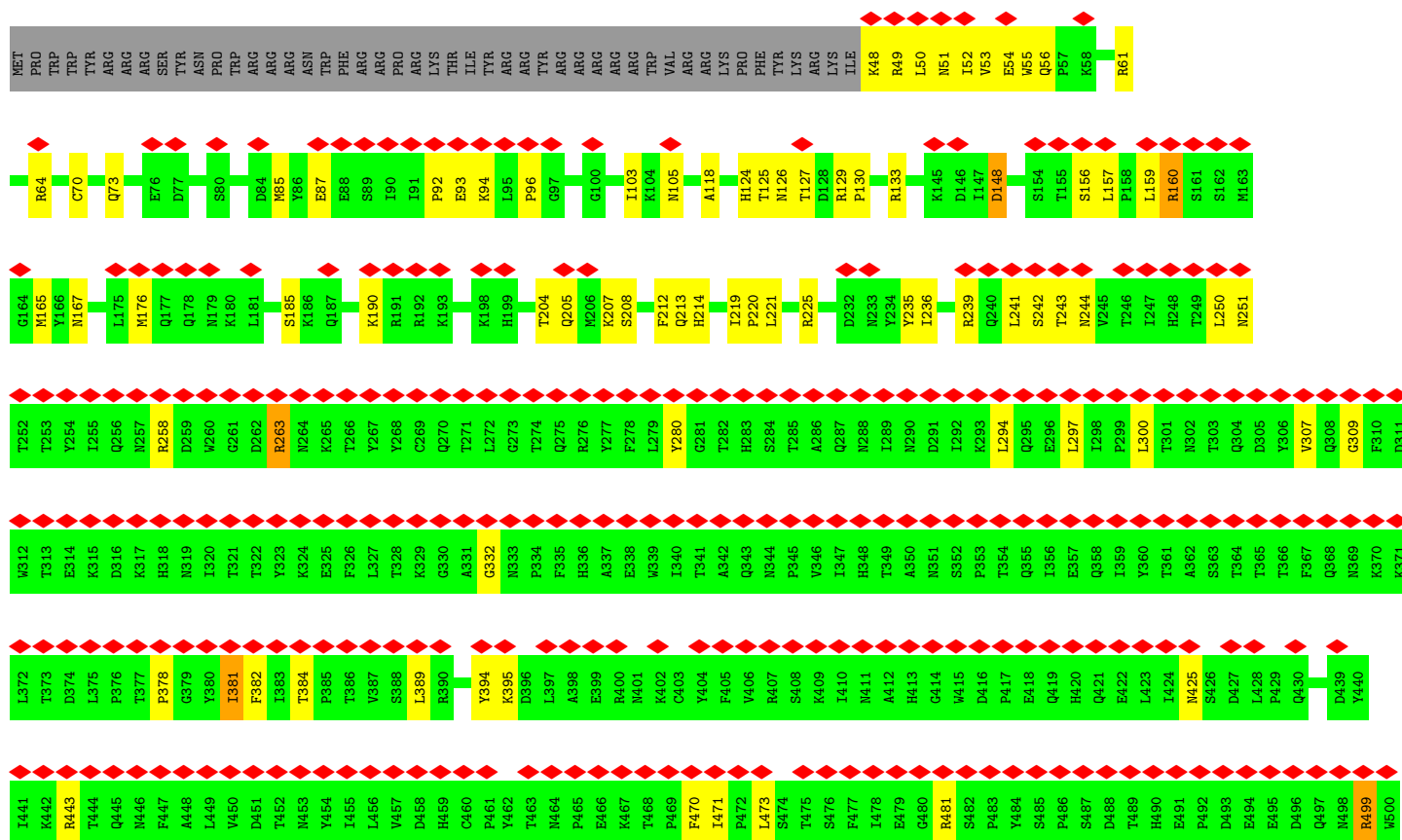




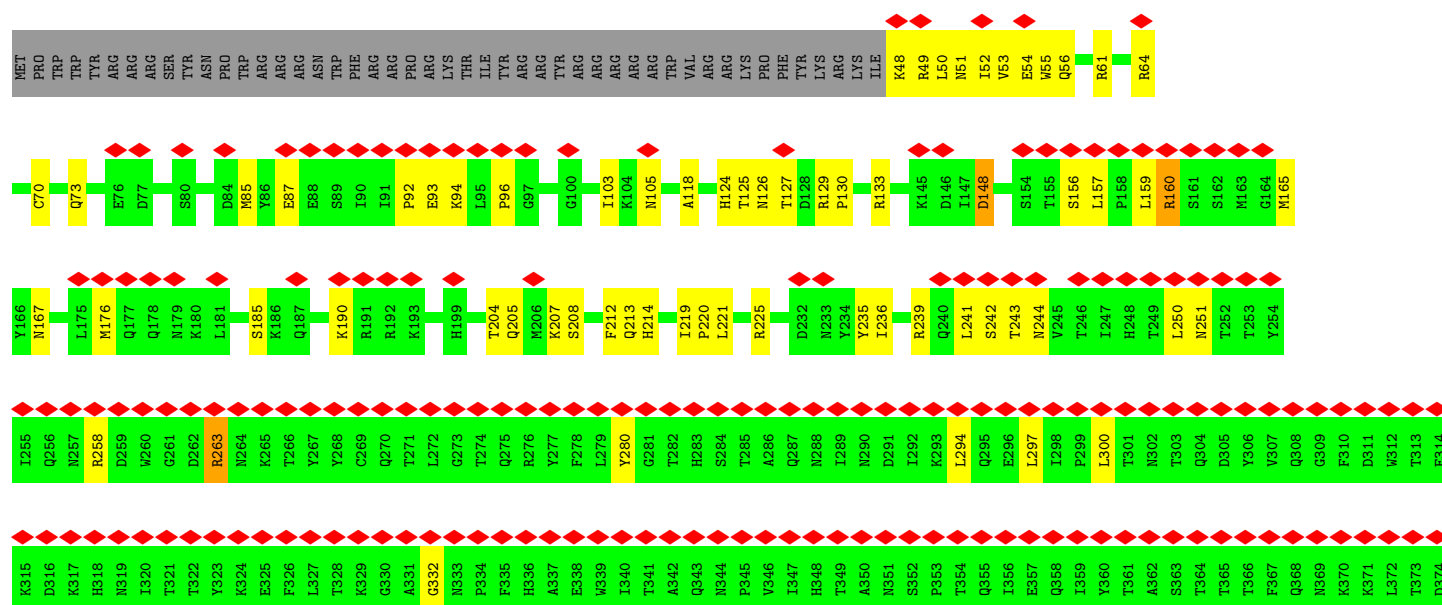




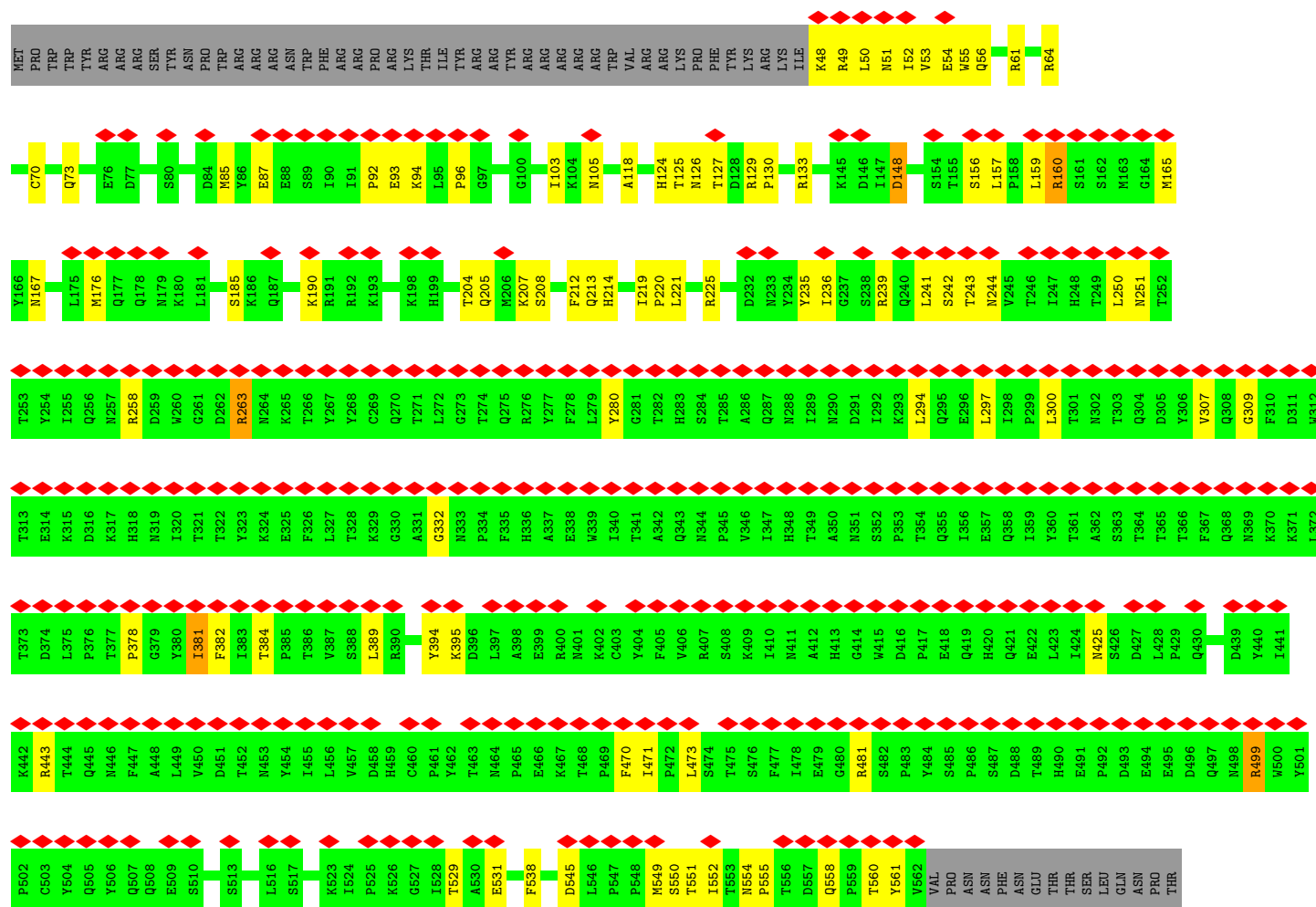
• Molecule 1: Capsid protein



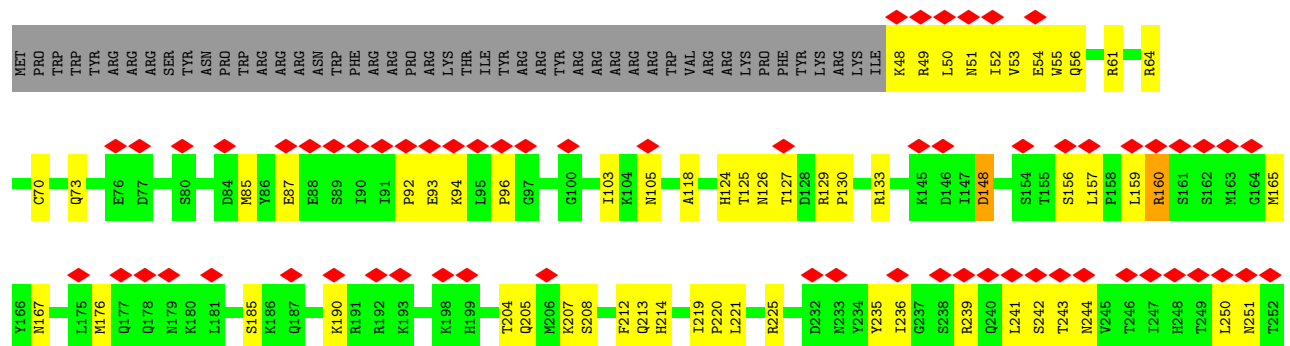


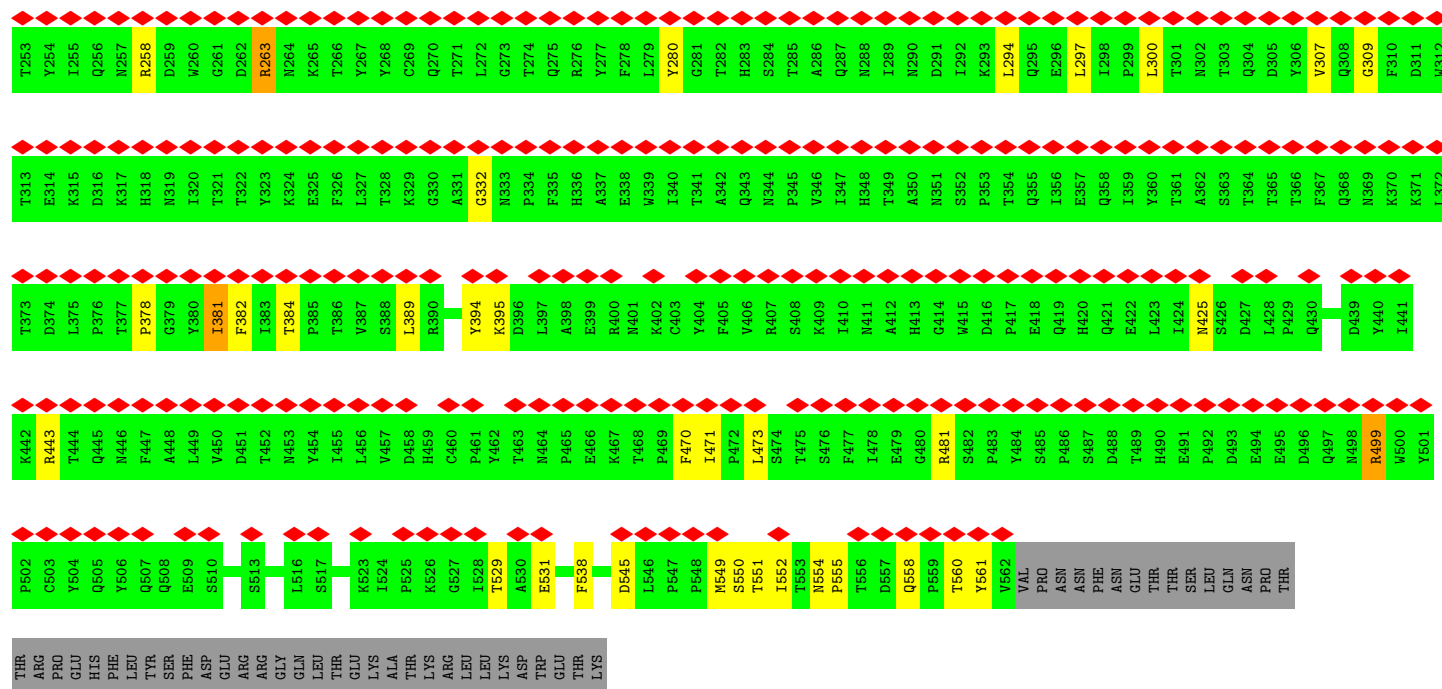




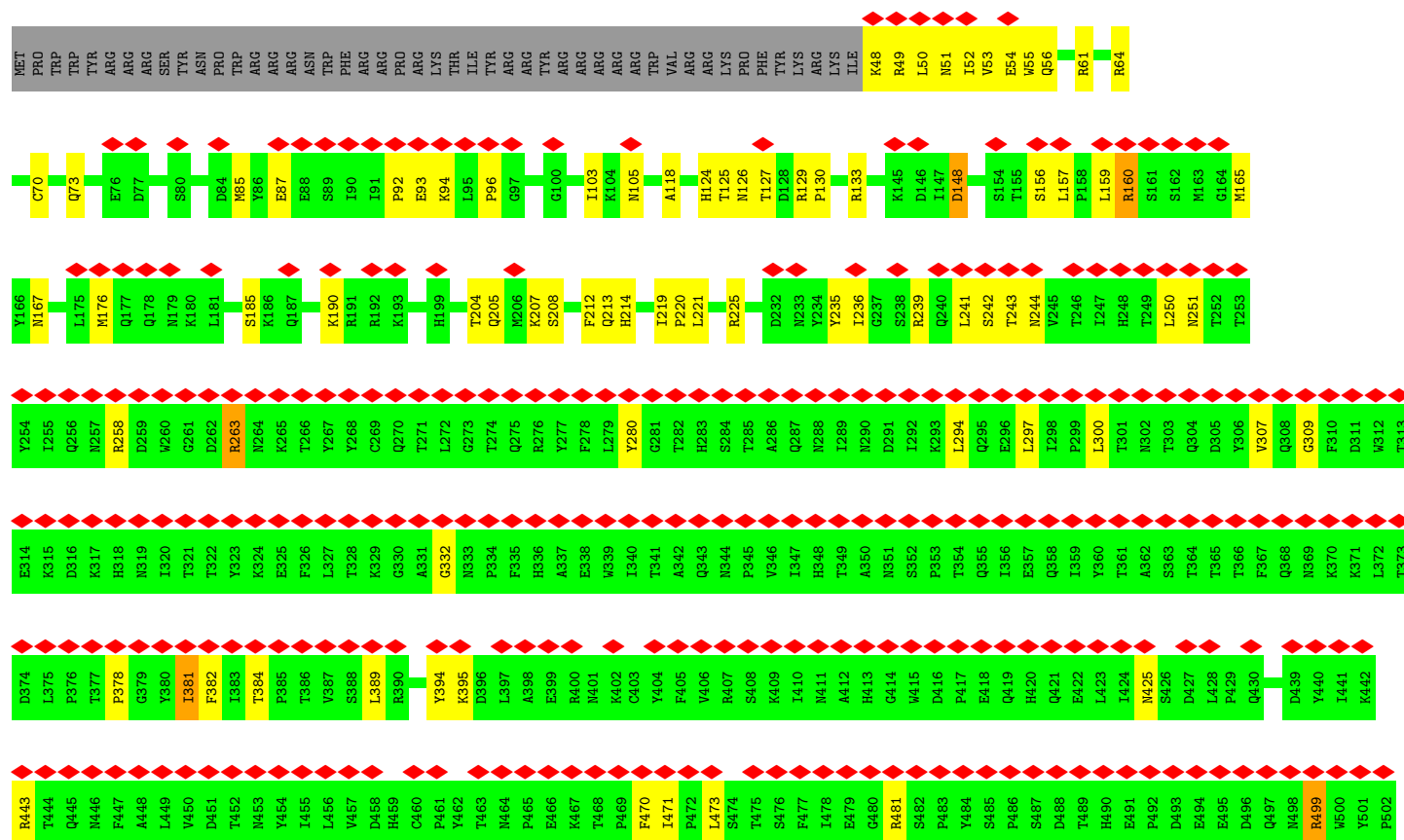


• Molecule 1: Capsid protein

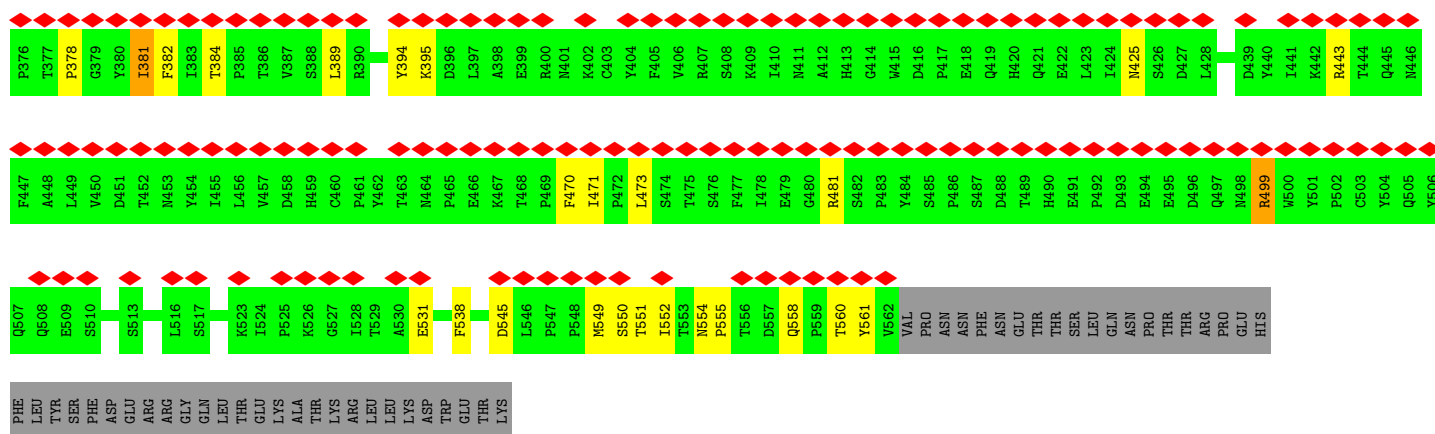




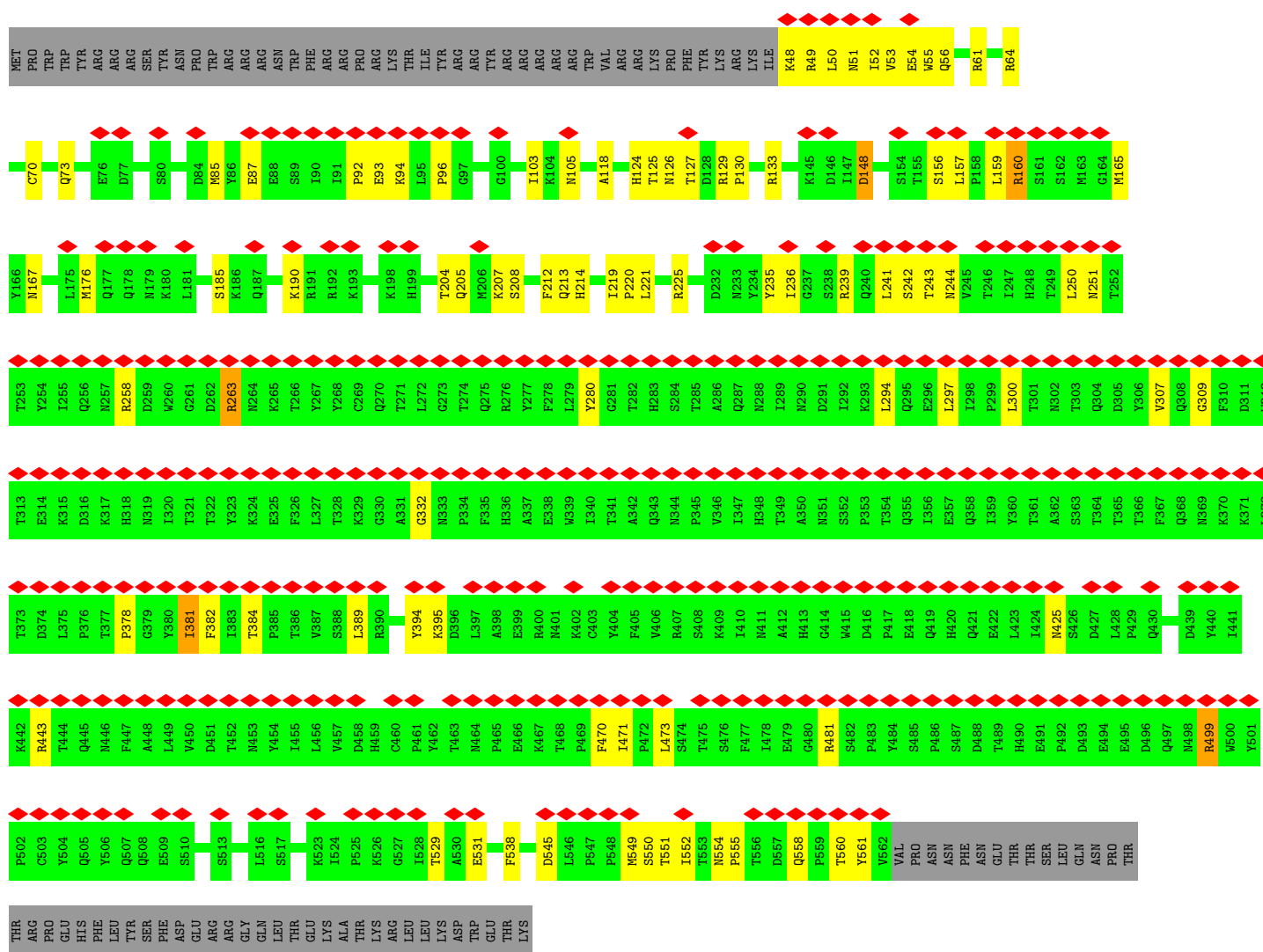
• Molecule 1: Capsid protein



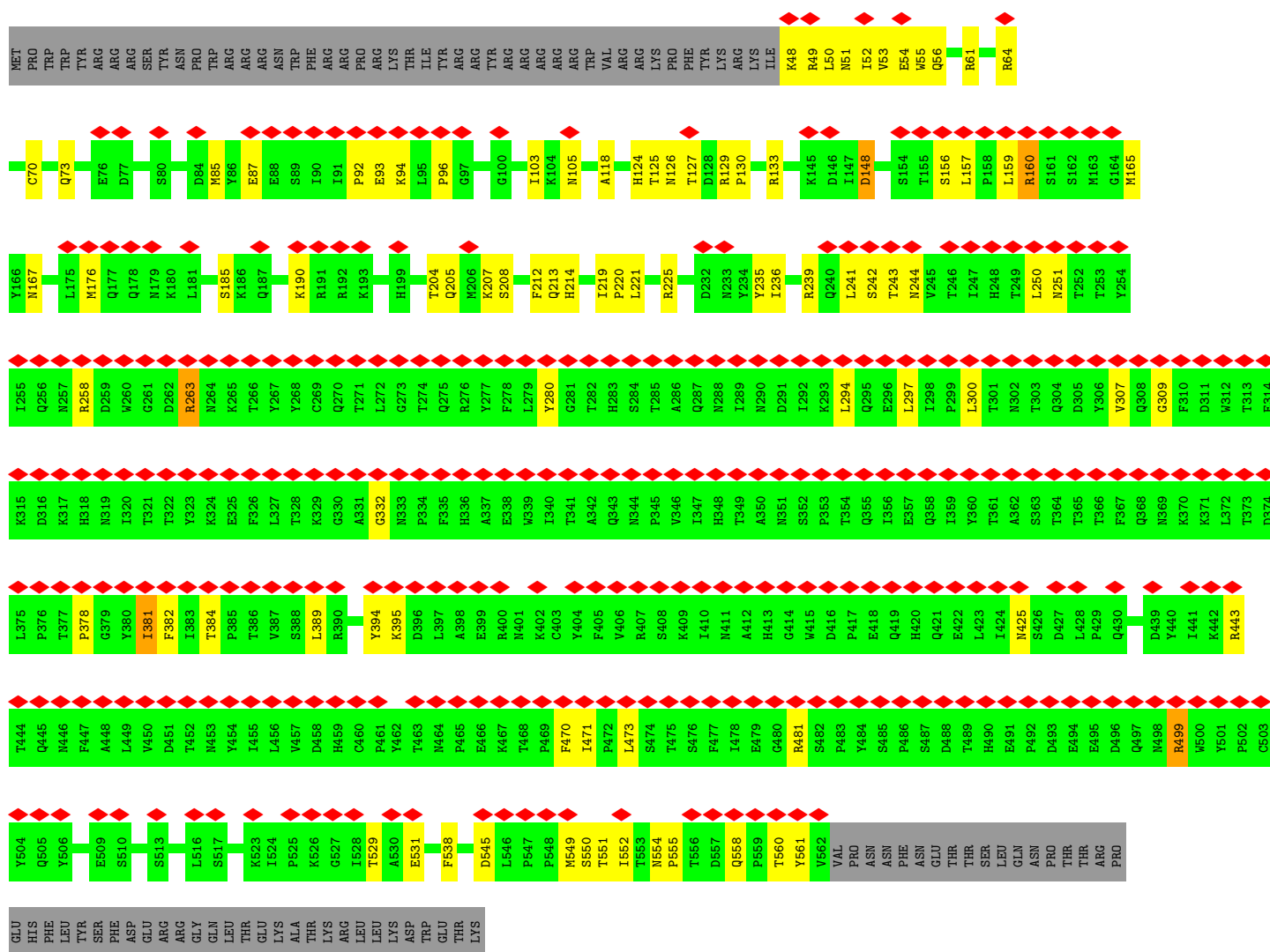




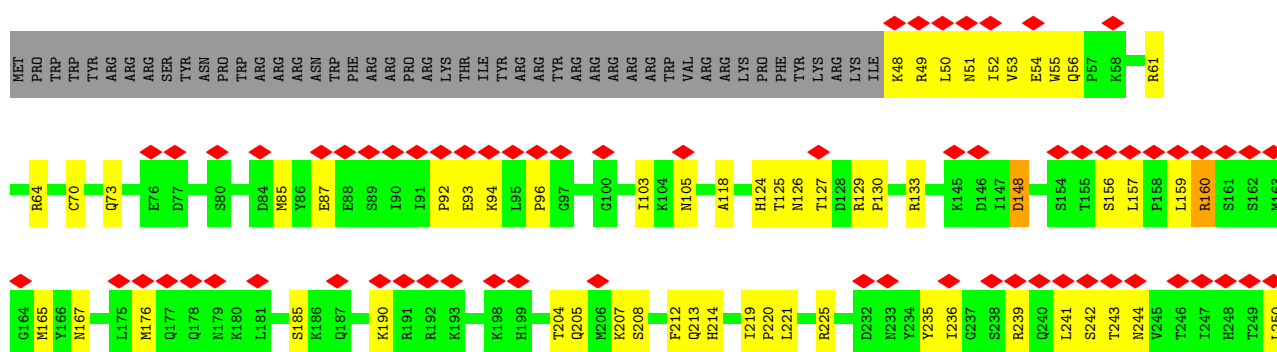
• Molecule 1: Capsid protein

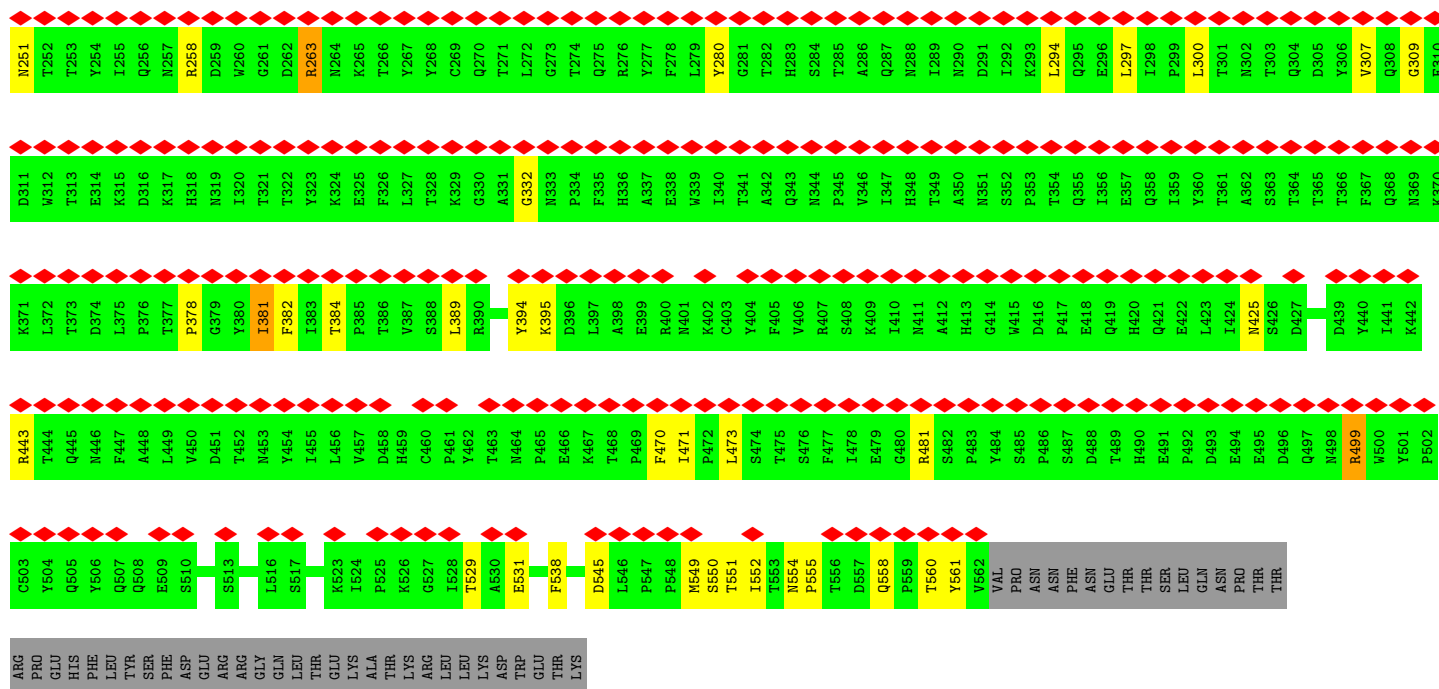


• Molecule 1: Capsid protein

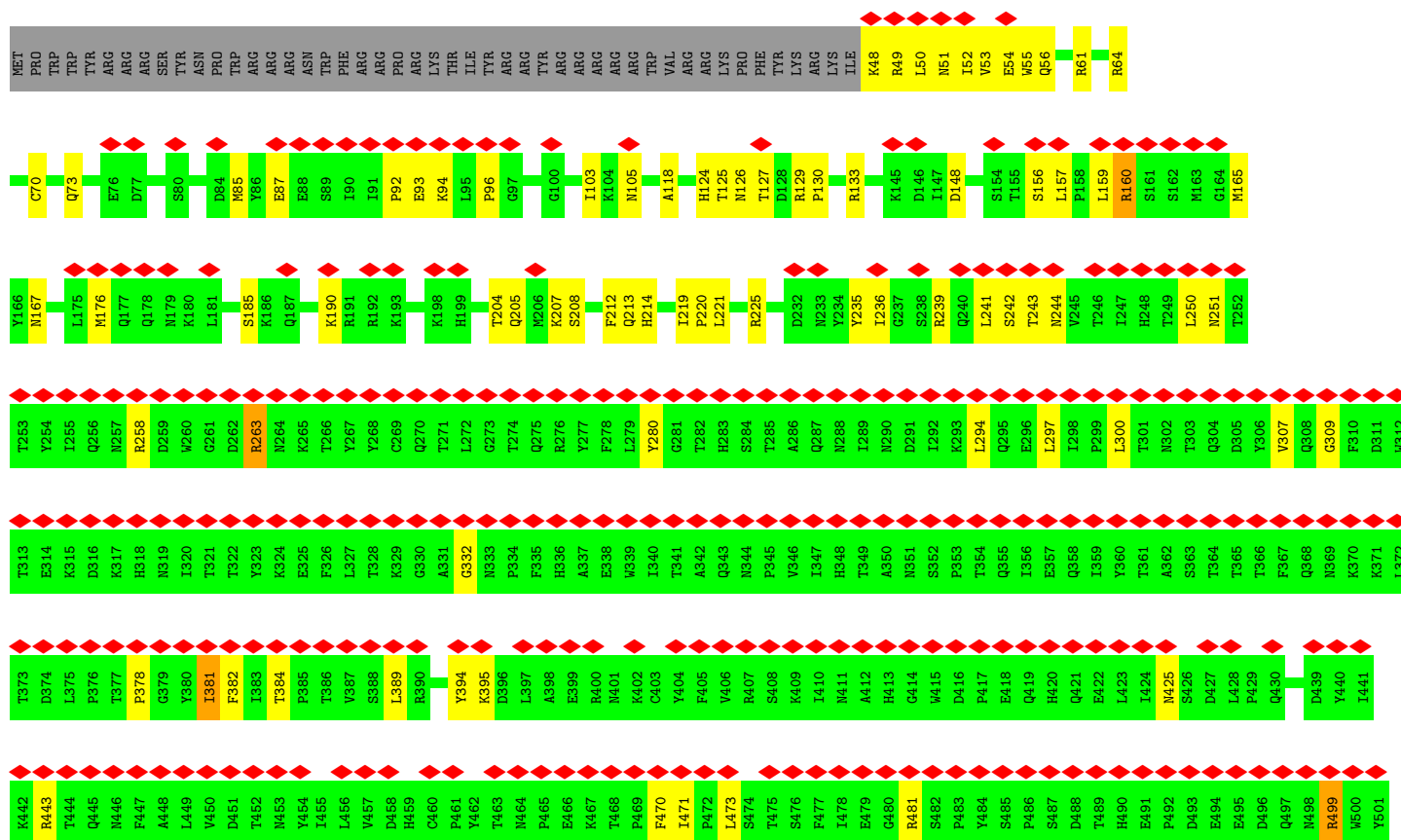


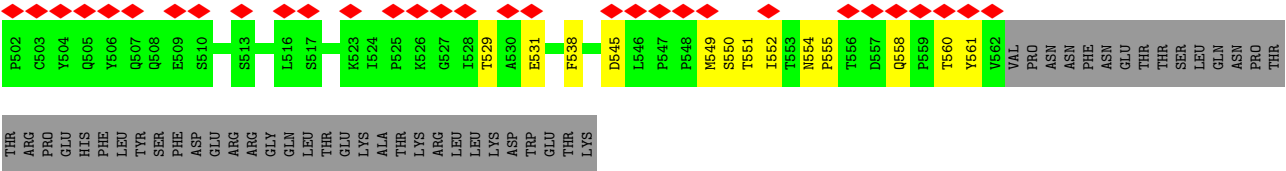
• Molecule 1: Capsid protein





• Molecule 1: Capsid protein





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	23193	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.53	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	1600	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.371	Depositor
Minimum map value	-0.197	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.113	Depositor
Map size ($\text{\AA}$)	500.4, 500.4, 500.4	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.834, 0.834, 0.834	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	0	0.78	0/4348	1.22	6/5923 (0.1%)
1	1	0.78	0/4348	1.22	6/5923 (0.1%)
1	2	0.78	0/4348	1.22	6/5923 (0.1%)
1	3	0.78	0/4348	1.22	6/5923 (0.1%)
1	4	0.78	0/4348	1.22	6/5923 (0.1%)
1	5	0.78	0/4348	1.22	6/5923 (0.1%)
1	6	0.78	0/4348	1.22	6/5923 (0.1%)
1	7	0.78	0/4348	1.22	6/5923 (0.1%)
1	A	0.78	0/4348	1.22	6/5923 (0.1%)
1	B	0.78	0/4348	1.22	6/5923 (0.1%)
1	C	0.78	0/4348	1.22	6/5923 (0.1%)
1	D	0.78	0/4348	1.22	6/5923 (0.1%)
1	E	0.78	0/4348	1.22	6/5923 (0.1%)
1	F	0.78	0/4348	1.22	6/5923 (0.1%)
1	G	0.78	0/4348	1.22	6/5923 (0.1%)
1	H	0.78	0/4348	1.22	6/5923 (0.1%)
1	I	0.78	0/4348	1.22	6/5923 (0.1%)
1	J	0.78	0/4348	1.22	6/5923 (0.1%)
1	K	0.78	0/4348	1.22	6/5923 (0.1%)
1	L	0.78	0/4348	1.22	6/5923 (0.1%)
1	M	0.78	0/4348	1.22	6/5923 (0.1%)
1	N	0.78	0/4348	1.22	6/5923 (0.1%)
1	O	0.78	0/4348	1.22	6/5923 (0.1%)
1	P	0.78	0/4348	1.22	6/5923 (0.1%)
1	Q	0.78	0/4348	1.22	6/5923 (0.1%)
1	R	0.78	0/4348	1.22	6/5923 (0.1%)
1	S	0.78	0/4348	1.22	6/5923 (0.1%)
1	T	0.78	0/4348	1.22	6/5923 (0.1%)
1	U	0.78	0/4348	1.22	6/5923 (0.1%)
1	V	0.78	0/4348	1.22	6/5923 (0.1%)
1	W	0.78	0/4348	1.22	6/5923 (0.1%)
1	X	0.78	0/4348	1.22	6/5923 (0.1%)
1	Y	0.78	0/4348	1.22	6/5923 (0.1%)
1	Z	0.78	0/4348	1.22	6/5923 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.78	0/4348	1.22	6/5923 (0.1%)
1	b	0.78	0/4348	1.22	6/5923 (0.1%)
1	c	0.78	0/4348	1.22	6/5923 (0.1%)
1	d	0.78	0/4348	1.22	6/5923 (0.1%)
1	e	0.78	0/4348	1.22	6/5923 (0.1%)
1	f	0.78	0/4348	1.22	6/5923 (0.1%)
1	g	0.78	0/4348	1.22	5/5923 (0.1%)
1	h	0.78	0/4348	1.22	6/5923 (0.1%)
1	i	0.78	0/4348	1.22	6/5923 (0.1%)
1	j	0.78	0/4348	1.22	6/5923 (0.1%)
1	k	0.78	0/4348	1.22	6/5923 (0.1%)
1	l	0.78	0/4348	1.22	6/5923 (0.1%)
1	m	0.78	0/4348	1.22	6/5923 (0.1%)
1	n	0.78	0/4348	1.22	6/5923 (0.1%)
1	o	0.78	0/4348	1.22	6/5923 (0.1%)
1	p	0.78	0/4348	1.22	6/5923 (0.1%)
1	q	0.78	0/4348	1.22	6/5923 (0.1%)
1	r	0.78	0/4348	1.22	6/5923 (0.1%)
1	s	0.78	0/4348	1.22	6/5923 (0.1%)
1	t	0.78	0/4348	1.22	6/5923 (0.1%)
1	u	0.78	0/4348	1.22	6/5923 (0.1%)
1	v	0.78	0/4348	1.22	6/5923 (0.1%)
1	w	0.78	0/4348	1.22	6/5923 (0.1%)
1	x	0.78	0/4348	1.22	6/5923 (0.1%)
1	y	0.78	0/4348	1.22	6/5923 (0.1%)
1	z	0.78	0/4348	1.22	5/5923 (0.1%)
All	All	0.78	0/260880	1.22	358/355380 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	10
1	1	0	10
1	2	0	10
1	3	0	10
1	4	0	10
1	5	0	10
1	6	0	10
1	7	0	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	10
1	B	0	10
1	C	0	10
1	D	0	10
1	E	0	10
1	F	0	10
1	G	0	10
1	H	0	10
1	I	0	10
1	J	0	10
1	K	0	10
1	L	0	10
1	M	0	10
1	N	0	10
1	O	0	10
1	P	0	10
1	Q	0	10
1	R	0	10
1	S	0	10
1	T	0	10
1	U	0	10
1	V	0	10
1	W	0	10
1	X	0	10
1	Y	0	10
1	Z	0	10
1	a	0	10
1	b	0	10
1	c	0	10
1	d	0	10
1	e	0	10
1	f	0	10
1	g	0	10
1	h	0	10
1	i	0	10
1	j	0	10
1	k	0	10
1	l	0	10
1	m	0	10
1	n	0	10
1	o	0	10
1	p	0	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	10
1	r	0	10
1	s	0	10
1	t	0	10
1	u	0	10
1	v	0	10
1	w	0	10
1	x	0	10
1	y	0	10
1	z	0	10
All	All	0	600

There are no bond length outliers.

All (358) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	263	ARG	N-CA-C	-6.05	105.54	113.17
1	l	263	ARG	N-CA-C	-6.05	105.55	113.17
1	V	263	ARG	N-CA-C	-6.05	105.55	113.17
1	W	263	ARG	N-CA-C	-6.05	105.55	113.17
1	q	263	ARG	N-CA-C	-6.05	105.55	113.17
1	r	263	ARG	N-CA-C	-6.05	105.55	113.17
1	s	263	ARG	N-CA-C	-6.05	105.55	113.17
1	t	263	ARG	N-CA-C	-6.05	105.55	113.17
1	w	263	ARG	N-CA-C	-6.05	105.55	113.17
1	R	263	ARG	N-CA-C	-6.04	105.56	113.17
1	k	263	ARG	N-CA-C	-6.04	105.56	113.17
1	z	263	ARG	N-CA-C	-6.04	105.56	113.17
1	4	263	ARG	N-CA-C	-6.04	105.56	113.17
1	7	263	ARG	N-CA-C	-6.04	105.56	113.17
1	F	263	ARG	N-CA-C	-6.04	105.56	113.17
1	K	263	ARG	N-CA-C	-6.04	105.56	113.17
1	L	263	ARG	N-CA-C	-6.04	105.56	113.17
1	T	263	ARG	N-CA-C	-6.04	105.56	113.17
1	a	263	ARG	N-CA-C	-6.04	105.56	113.17
1	d	263	ARG	N-CA-C	-6.04	105.56	113.17
1	e	263	ARG	N-CA-C	-6.04	105.56	113.17
1	j	263	ARG	N-CA-C	-6.04	105.56	113.17
1	l	263	ARG	N-CA-C	-6.04	105.56	113.17
1	0	263	ARG	N-CA-C	-6.02	105.58	113.17
1	A	263	ARG	N-CA-C	-6.02	105.58	113.17
1	B	263	ARG	N-CA-C	-6.02	105.58	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	263	ARG	N-CA-C	-6.02	105.58	113.17
1	Z	263	ARG	N-CA-C	-6.02	105.58	113.17
1	f	263	ARG	N-CA-C	-6.02	105.58	113.17
1	g	263	ARG	N-CA-C	-6.02	105.58	113.17
1	m	263	ARG	N-CA-C	-6.02	105.58	113.17
1	u	263	ARG	N-CA-C	-6.02	105.58	113.17
1	y	263	ARG	N-CA-C	-6.02	105.58	113.17
1	Y	263	ARG	N-CA-C	-6.02	105.59	113.17
1	X	263	ARG	N-CA-C	-6.00	105.61	113.17
1	2	263	ARG	N-CA-C	-6.00	105.61	113.17
1	5	263	ARG	N-CA-C	-6.00	105.61	113.17
1	C	263	ARG	N-CA-C	-6.00	105.61	113.17
1	E	263	ARG	N-CA-C	-6.00	105.61	113.17
1	G	263	ARG	N-CA-C	-6.00	105.61	113.17
1	I	263	ARG	N-CA-C	-6.00	105.61	113.17
1	J	263	ARG	N-CA-C	-6.00	105.61	113.17
1	O	263	ARG	N-CA-C	-6.00	105.61	113.17
1	P	263	ARG	N-CA-C	-6.00	105.61	113.17
1	h	263	ARG	N-CA-C	-6.00	105.61	113.17
1	v	263	ARG	N-CA-C	-6.00	105.61	113.17
1	b	263	ARG	N-CA-C	-6.00	105.61	113.17
1	3	263	ARG	N-CA-C	-5.98	105.64	113.17
1	6	263	ARG	N-CA-C	-5.98	105.64	113.17
1	H	263	ARG	N-CA-C	-5.98	105.64	113.17
1	M	263	ARG	N-CA-C	-5.98	105.64	113.17
1	Q	263	ARG	N-CA-C	-5.98	105.64	113.17
1	S	263	ARG	N-CA-C	-5.98	105.64	113.17
1	c	263	ARG	N-CA-C	-5.98	105.64	113.17
1	i	263	ARG	N-CA-C	-5.98	105.64	113.17
1	o	263	ARG	N-CA-C	-5.98	105.64	113.17
1	p	263	ARG	N-CA-C	-5.98	105.64	113.17
1	x	263	ARG	N-CA-C	-5.98	105.64	113.17
1	N	263	ARG	N-CA-C	-5.98	105.64	113.17
1	1	294	LEU	N-CA-C	-5.97	105.49	112.89
1	R	294	LEU	N-CA-C	-5.97	105.49	112.89
1	U	294	LEU	N-CA-C	-5.97	105.49	112.89
1	V	294	LEU	N-CA-C	-5.97	105.49	112.89
1	W	294	LEU	N-CA-C	-5.97	105.49	112.89
1	q	294	LEU	N-CA-C	-5.97	105.49	112.89
1	r	294	LEU	N-CA-C	-5.97	105.49	112.89
1	t	294	LEU	N-CA-C	-5.97	105.49	112.89
1	w	294	LEU	N-CA-C	-5.97	105.49	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	294	LEU	N-CA-C	-5.97	105.49	112.89
1	n	263	ARG	N-CA-C	-5.96	105.66	113.17
1	3	294	LEU	N-CA-C	-5.95	105.51	112.89
1	6	294	LEU	N-CA-C	-5.95	105.51	112.89
1	H	294	LEU	N-CA-C	-5.95	105.51	112.89
1	M	294	LEU	N-CA-C	-5.95	105.51	112.89
1	Q	294	LEU	N-CA-C	-5.95	105.51	112.89
1	S	294	LEU	N-CA-C	-5.95	105.51	112.89
1	c	294	LEU	N-CA-C	-5.95	105.51	112.89
1	e	294	LEU	N-CA-C	-5.95	105.51	112.89
1	i	294	LEU	N-CA-C	-5.95	105.51	112.89
1	n	294	LEU	N-CA-C	-5.95	105.51	112.89
1	o	294	LEU	N-CA-C	-5.95	105.51	112.89
1	p	294	LEU	N-CA-C	-5.95	105.51	112.89
1	s	294	LEU	N-CA-C	-5.95	105.51	112.89
1	x	294	LEU	N-CA-C	-5.95	105.51	112.89
1	4	294	LEU	N-CA-C	-5.94	105.53	112.89
1	7	294	LEU	N-CA-C	-5.94	105.53	112.89
1	F	294	LEU	N-CA-C	-5.94	105.53	112.89
1	K	294	LEU	N-CA-C	-5.94	105.53	112.89
1	L	294	LEU	N-CA-C	-5.94	105.53	112.89
1	T	294	LEU	N-CA-C	-5.94	105.53	112.89
1	d	294	LEU	N-CA-C	-5.94	105.53	112.89
1	j	294	LEU	N-CA-C	-5.94	105.53	112.89
1	k	294	LEU	N-CA-C	-5.94	105.53	112.89
1	l	294	LEU	N-CA-C	-5.94	105.53	112.89
1	2	294	LEU	N-CA-C	-5.93	105.53	112.89
1	5	294	LEU	N-CA-C	-5.93	105.53	112.89
1	C	294	LEU	N-CA-C	-5.93	105.53	112.89
1	E	294	LEU	N-CA-C	-5.93	105.53	112.89
1	G	294	LEU	N-CA-C	-5.93	105.53	112.89
1	I	294	LEU	N-CA-C	-5.93	105.53	112.89
1	J	294	LEU	N-CA-C	-5.93	105.53	112.89
1	N	294	LEU	N-CA-C	-5.93	105.53	112.89
1	O	294	LEU	N-CA-C	-5.93	105.53	112.89
1	P	294	LEU	N-CA-C	-5.93	105.53	112.89
1	h	294	LEU	N-CA-C	-5.93	105.53	112.89
1	v	294	LEU	N-CA-C	-5.93	105.53	112.89
1	z	294	LEU	N-CA-C	-5.93	105.54	112.89
1	a	294	LEU	N-CA-C	-5.93	105.54	112.89
1	g	294	LEU	N-CA-C	-5.92	105.55	112.89
1	0	294	LEU	N-CA-C	-5.91	105.56	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	294	LEU	N-CA-C	-5.91	105.56	112.89
1	D	294	LEU	N-CA-C	-5.91	105.56	112.89
1	X	294	LEU	N-CA-C	-5.91	105.56	112.89
1	Z	294	LEU	N-CA-C	-5.91	105.56	112.89
1	b	294	LEU	N-CA-C	-5.91	105.56	112.89
1	f	294	LEU	N-CA-C	-5.91	105.56	112.89
1	u	294	LEU	N-CA-C	-5.91	105.56	112.89
1	y	294	LEU	N-CA-C	-5.91	105.56	112.89
1	A	294	LEU	N-CA-C	-5.89	105.58	112.89
1	m	294	LEU	N-CA-C	-5.89	105.59	112.89
1	3	499	ARG	CA-C-O	-5.51	114.72	121.28
1	6	499	ARG	CA-C-O	-5.51	114.72	121.28
1	H	499	ARG	CA-C-O	-5.51	114.72	121.28
1	M	499	ARG	CA-C-O	-5.51	114.72	121.28
1	Q	499	ARG	CA-C-O	-5.51	114.72	121.28
1	S	499	ARG	CA-C-O	-5.51	114.72	121.28
1	c	499	ARG	CA-C-O	-5.51	114.72	121.28
1	i	499	ARG	CA-C-O	-5.51	114.72	121.28
1	n	499	ARG	CA-C-O	-5.51	114.72	121.28
1	o	499	ARG	CA-C-O	-5.51	114.72	121.28
1	p	499	ARG	CA-C-O	-5.51	114.72	121.28
1	7	499	ARG	CA-C-O	-5.50	114.73	121.28
1	0	499	ARG	CA-C-O	-5.49	114.74	121.28
1	A	499	ARG	CA-C-O	-5.49	114.74	121.28
1	B	499	ARG	CA-C-O	-5.49	114.74	121.28
1	D	499	ARG	CA-C-O	-5.49	114.74	121.28
1	W	499	ARG	CA-C-O	-5.49	114.74	121.28
1	X	499	ARG	CA-C-O	-5.49	114.74	121.28
1	Z	499	ARG	CA-C-O	-5.49	114.74	121.28
1	b	499	ARG	CA-C-O	-5.49	114.74	121.28
1	f	499	ARG	CA-C-O	-5.49	114.74	121.28
1	g	499	ARG	CA-C-O	-5.49	114.74	121.28
1	l	499	ARG	CA-C-O	-5.49	114.74	121.28
1	m	499	ARG	CA-C-O	-5.49	114.74	121.28
1	u	499	ARG	CA-C-O	-5.49	114.74	121.28
1	y	499	ARG	CA-C-O	-5.49	114.74	121.28
1	1	499	ARG	CA-C-O	-5.49	114.75	121.28
1	R	499	ARG	CA-C-O	-5.49	114.75	121.28
1	U	499	ARG	CA-C-O	-5.49	114.75	121.28
1	V	499	ARG	CA-C-O	-5.49	114.75	121.28
1	Y	499	ARG	CA-C-O	-5.49	114.75	121.28
1	q	499	ARG	CA-C-O	-5.49	114.75	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	499	ARG	CA-C-O	-5.49	114.75	121.28
1	t	499	ARG	CA-C-O	-5.49	114.75	121.28
1	w	499	ARG	CA-C-O	-5.49	114.75	121.28
1	z	499	ARG	CA-C-O	-5.49	114.75	121.28
1	x	499	ARG	CA-C-O	-5.48	114.76	121.28
1	2	499	ARG	CA-C-O	-5.47	114.76	121.28
1	4	499	ARG	CA-C-O	-5.47	114.77	121.28
1	5	499	ARG	CA-C-O	-5.47	114.76	121.28
1	C	499	ARG	CA-C-O	-5.47	114.76	121.28
1	F	499	ARG	CA-C-O	-5.47	114.77	121.28
1	G	499	ARG	CA-C-O	-5.47	114.76	121.28
1	I	499	ARG	CA-C-O	-5.47	114.76	121.28
1	J	499	ARG	CA-C-O	-5.47	114.76	121.28
1	K	499	ARG	CA-C-O	-5.47	114.77	121.28
1	N	499	ARG	CA-C-O	-5.47	114.76	121.28
1	O	499	ARG	CA-C-O	-5.47	114.76	121.28
1	P	499	ARG	CA-C-O	-5.47	114.76	121.28
1	T	499	ARG	CA-C-O	-5.47	114.77	121.28
1	a	499	ARG	CA-C-O	-5.47	114.77	121.28
1	d	499	ARG	CA-C-O	-5.47	114.77	121.28
1	e	499	ARG	CA-C-O	-5.47	114.77	121.28
1	h	499	ARG	CA-C-O	-5.47	114.76	121.28
1	k	499	ARG	CA-C-O	-5.47	114.77	121.28
1	v	499	ARG	CA-C-O	-5.47	114.76	121.28
1	s	499	ARG	CA-C-O	-5.46	114.78	121.28
1	E	499	ARG	CA-C-O	-5.46	114.78	121.28
1	j	499	ARG	CA-C-O	-5.46	114.79	121.28
1	L	499	ARG	CA-C-O	-5.45	114.80	121.28
1	d	378	PRO	N-CA-CB	-5.29	98.87	102.73
1	L	378	PRO	N-CA-CB	-5.28	98.88	102.73
1	I	378	PRO	N-CA-CB	-5.27	98.89	102.73
1	Q	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	0	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	A	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	B	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	D	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	X	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	Z	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	b	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	f	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	g	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	m	378	PRO	N-CA-CB	-5.26	98.89	102.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	y	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	4	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	7	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	K	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	T	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	a	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	e	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	j	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	k	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	l	378	PRO	N-CA-CB	-5.26	98.89	102.73
1	5	378	PRO	N-CA-CB	-5.25	98.89	102.73
1	3	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	6	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	H	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	M	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	S	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	c	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	i	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	n	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	o	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	p	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	x	378	PRO	N-CA-CB	-5.25	98.90	102.73
1	C	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	E	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	G	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	J	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	N	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	O	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	P	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	h	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	v	378	PRO	N-CA-CB	-5.24	98.90	102.73
1	l	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	R	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	U	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	V	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	W	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	Y	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	q	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	r	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	s	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	t	378	PRO	N-CA-CB	-5.23	98.91	102.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	z	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	2	378	PRO	N-CA-CB	-5.23	98.91	102.73
1	F	378	PRO	N-CA-CB	-5.21	98.92	102.73
1	k	381	ILE	CA-C-O	-5.13	116.44	121.67
1	6	381	ILE	CA-C-O	-5.13	116.44	121.67
1	4	381	ILE	CA-C-O	-5.12	116.45	121.67
1	5	381	ILE	CA-C-O	-5.12	116.45	121.67
1	Q	381	ILE	CA-C-O	-5.11	116.45	121.67
1	3	381	ILE	CA-C-O	-5.10	116.47	121.67
1	H	381	ILE	CA-C-O	-5.10	116.47	121.67
1	S	381	ILE	CA-C-O	-5.10	116.47	121.67
1	c	381	ILE	CA-C-O	-5.10	116.47	121.67
1	i	381	ILE	CA-C-O	-5.10	116.47	121.67
1	n	381	ILE	CA-C-O	-5.10	116.47	121.67
1	o	381	ILE	CA-C-O	-5.10	116.47	121.67
1	p	381	ILE	CA-C-O	-5.10	116.47	121.67
1	u	381	ILE	CA-C-O	-5.10	116.47	121.67
1	x	381	ILE	CA-C-O	-5.10	116.47	121.67
1	7	381	ILE	CA-C-O	-5.09	116.48	121.67
1	K	381	ILE	CA-C-O	-5.09	116.48	121.67
1	L	381	ILE	CA-C-O	-5.09	116.48	121.67
1	T	381	ILE	CA-C-O	-5.09	116.48	121.67
1	a	381	ILE	CA-C-O	-5.09	116.48	121.67
1	d	381	ILE	CA-C-O	-5.09	116.48	121.67
1	e	381	ILE	CA-C-O	-5.09	116.48	121.67
1	j	381	ILE	CA-C-O	-5.09	116.48	121.67
1	C	381	ILE	CA-C-O	-5.09	116.48	121.67
1	G	381	ILE	CA-C-O	-5.09	116.48	121.67
1	I	381	ILE	CA-C-O	-5.09	116.48	121.67
1	J	381	ILE	CA-C-O	-5.09	116.48	121.67
1	N	381	ILE	CA-C-O	-5.09	116.48	121.67
1	O	381	ILE	CA-C-O	-5.09	116.48	121.67
1	P	381	ILE	CA-C-O	-5.09	116.48	121.67
1	h	381	ILE	CA-C-O	-5.09	116.48	121.67
1	v	381	ILE	CA-C-O	-5.09	116.48	121.67
1	l	381	ILE	CA-C-O	-5.09	116.48	121.67
1	M	381	ILE	CA-C-O	-5.08	116.49	121.67
1	Q	148	ASP	CA-CB-CG	5.08	117.68	112.60
1	1	381	ILE	CA-C-O	-5.07	116.50	121.67
1	0	381	ILE	CA-C-O	-5.07	116.50	121.67
1	A	381	ILE	CA-C-O	-5.07	116.50	121.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	381	ILE	CA-C-O	-5.07	116.50	121.67
1	D	381	ILE	CA-C-O	-5.07	116.50	121.67
1	X	381	ILE	CA-C-O	-5.07	116.50	121.67
1	b	381	ILE	CA-C-O	-5.07	116.50	121.67
1	f	381	ILE	CA-C-O	-5.07	116.50	121.67
1	g	381	ILE	CA-C-O	-5.07	116.50	121.67
1	m	381	ILE	CA-C-O	-5.07	116.50	121.67
1	y	381	ILE	CA-C-O	-5.07	116.50	121.67
1	2	381	ILE	CA-C-O	-5.06	116.51	121.67
1	J	148	ASP	CA-CB-CG	5.06	117.66	112.60
1	r	148	ASP	CA-CB-CG	5.06	117.66	112.60
1	E	381	ILE	CA-C-O	-5.05	116.51	121.67
1	R	381	ILE	CA-C-O	-5.05	116.52	121.67
1	W	381	ILE	CA-C-O	-5.05	116.52	121.67
1	q	381	ILE	CA-C-O	-5.05	116.52	121.67
1	r	381	ILE	CA-C-O	-5.05	116.52	121.67
1	s	381	ILE	CA-C-O	-5.05	116.52	121.67
1	t	381	ILE	CA-C-O	-5.05	116.52	121.67
1	w	381	ILE	CA-C-O	-5.05	116.52	121.67
1	z	381	ILE	CA-C-O	-5.05	116.52	121.67
1	F	381	ILE	CA-C-O	-5.05	116.52	121.67
1	c	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	f	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	x	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	2	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	5	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	C	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	E	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	G	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	I	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	N	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	O	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	P	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	h	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	v	148	ASP	CA-CB-CG	5.05	117.65	112.60
1	Z	381	ILE	CA-C-O	-5.04	116.53	121.67
1	V	381	ILE	CA-C-O	-5.04	116.53	121.67
1	Y	381	ILE	CA-C-O	-5.04	116.53	121.67
1	3	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	6	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	H	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	M	148	ASP	CA-CB-CG	5.04	117.64	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	i	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	n	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	o	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	p	148	ASP	CA-CB-CG	5.04	117.64	112.60
1	U	381	ILE	CA-C-O	-5.04	116.53	121.67
1	7	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	w	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	l	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	F	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	R	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	U	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	V	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	W	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	Y	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	q	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	t	148	ASP	CA-CB-CG	5.03	117.63	112.60
1	s	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	0	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	A	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	B	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	D	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	X	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	Z	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	b	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	m	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	u	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	y	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	4	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	T	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	a	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	d	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	e	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	j	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	k	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	l	148	ASP	CA-CB-CG	5.02	117.62	112.60
1	K	148	ASP	CA-CB-CG	5.00	117.60	112.60
1	L	148	ASP	CA-CB-CG	5.00	117.60	112.60

There are no chirality outliers.

All (600) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	129	ARG	Sidechain
1	0	133	ARG	Sidechain
1	0	160	ARG	Sidechain
1	0	258	ARG	Sidechain
1	0	263	ARG	Sidechain
1	0	443	ARG	Sidechain
1	0	481	ARG	Sidechain
1	0	499	ARG	Sidechain
1	0	61	ARG	Sidechain
1	0	64	ARG	Sidechain
1	1	129	ARG	Sidechain
1	1	133	ARG	Sidechain
1	1	160	ARG	Sidechain
1	1	258	ARG	Sidechain
1	1	263	ARG	Sidechain
1	1	443	ARG	Sidechain
1	1	481	ARG	Sidechain
1	1	499	ARG	Sidechain
1	1	61	ARG	Sidechain
1	1	64	ARG	Sidechain
1	2	129	ARG	Sidechain
1	2	133	ARG	Sidechain
1	2	160	ARG	Sidechain
1	2	258	ARG	Sidechain
1	2	263	ARG	Sidechain
1	2	443	ARG	Sidechain
1	2	481	ARG	Sidechain
1	2	499	ARG	Sidechain
1	2	61	ARG	Sidechain
1	2	64	ARG	Sidechain
1	3	129	ARG	Sidechain
1	3	133	ARG	Sidechain
1	3	160	ARG	Sidechain
1	3	258	ARG	Sidechain
1	3	263	ARG	Sidechain
1	3	443	ARG	Sidechain
1	3	481	ARG	Sidechain
1	3	499	ARG	Sidechain
1	3	61	ARG	Sidechain
1	3	64	ARG	Sidechain
1	4	129	ARG	Sidechain
1	4	133	ARG	Sidechain
1	4	160	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	4	258	ARG	Sidechain
1	4	263	ARG	Sidechain
1	4	443	ARG	Sidechain
1	4	481	ARG	Sidechain
1	4	499	ARG	Sidechain
1	4	61	ARG	Sidechain
1	4	64	ARG	Sidechain
1	5	129	ARG	Sidechain
1	5	133	ARG	Sidechain
1	5	160	ARG	Sidechain
1	5	258	ARG	Sidechain
1	5	263	ARG	Sidechain
1	5	443	ARG	Sidechain
1	5	481	ARG	Sidechain
1	5	499	ARG	Sidechain
1	5	61	ARG	Sidechain
1	5	64	ARG	Sidechain
1	6	129	ARG	Sidechain
1	6	133	ARG	Sidechain
1	6	160	ARG	Sidechain
1	6	258	ARG	Sidechain
1	6	263	ARG	Sidechain
1	6	443	ARG	Sidechain
1	6	481	ARG	Sidechain
1	6	499	ARG	Sidechain
1	6	61	ARG	Sidechain
1	6	64	ARG	Sidechain
1	7	129	ARG	Sidechain
1	7	133	ARG	Sidechain
1	7	160	ARG	Sidechain
1	7	258	ARG	Sidechain
1	7	263	ARG	Sidechain
1	7	443	ARG	Sidechain
1	7	481	ARG	Sidechain
1	7	499	ARG	Sidechain
1	7	61	ARG	Sidechain
1	7	64	ARG	Sidechain
1	A	129	ARG	Sidechain
1	A	133	ARG	Sidechain
1	A	160	ARG	Sidechain
1	A	258	ARG	Sidechain
1	A	263	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	A	443	ARG	Sidechain
1	A	481	ARG	Sidechain
1	A	499	ARG	Sidechain
1	A	61	ARG	Sidechain
1	A	64	ARG	Sidechain
1	B	129	ARG	Sidechain
1	B	133	ARG	Sidechain
1	B	160	ARG	Sidechain
1	B	258	ARG	Sidechain
1	B	263	ARG	Sidechain
1	B	443	ARG	Sidechain
1	B	481	ARG	Sidechain
1	B	499	ARG	Sidechain
1	B	61	ARG	Sidechain
1	B	64	ARG	Sidechain
1	C	129	ARG	Sidechain
1	C	133	ARG	Sidechain
1	C	160	ARG	Sidechain
1	C	258	ARG	Sidechain
1	C	263	ARG	Sidechain
1	C	443	ARG	Sidechain
1	C	481	ARG	Sidechain
1	C	499	ARG	Sidechain
1	C	61	ARG	Sidechain
1	C	64	ARG	Sidechain
1	D	129	ARG	Sidechain
1	D	133	ARG	Sidechain
1	D	160	ARG	Sidechain
1	D	258	ARG	Sidechain
1	D	263	ARG	Sidechain
1	D	443	ARG	Sidechain
1	D	481	ARG	Sidechain
1	D	499	ARG	Sidechain
1	D	61	ARG	Sidechain
1	D	64	ARG	Sidechain
1	E	129	ARG	Sidechain
1	E	133	ARG	Sidechain
1	E	160	ARG	Sidechain
1	E	258	ARG	Sidechain
1	E	263	ARG	Sidechain
1	E	443	ARG	Sidechain
1	E	481	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	E	499	ARG	Sidechain
1	E	61	ARG	Sidechain
1	E	64	ARG	Sidechain
1	F	129	ARG	Sidechain
1	F	133	ARG	Sidechain
1	F	160	ARG	Sidechain
1	F	258	ARG	Sidechain
1	F	263	ARG	Sidechain
1	F	443	ARG	Sidechain
1	F	481	ARG	Sidechain
1	F	499	ARG	Sidechain
1	F	61	ARG	Sidechain
1	F	64	ARG	Sidechain
1	G	129	ARG	Sidechain
1	G	133	ARG	Sidechain
1	G	160	ARG	Sidechain
1	G	258	ARG	Sidechain
1	G	263	ARG	Sidechain
1	G	443	ARG	Sidechain
1	G	481	ARG	Sidechain
1	G	499	ARG	Sidechain
1	G	61	ARG	Sidechain
1	G	64	ARG	Sidechain
1	H	129	ARG	Sidechain
1	H	133	ARG	Sidechain
1	H	160	ARG	Sidechain
1	H	258	ARG	Sidechain
1	H	263	ARG	Sidechain
1	H	443	ARG	Sidechain
1	H	481	ARG	Sidechain
1	H	499	ARG	Sidechain
1	H	61	ARG	Sidechain
1	H	64	ARG	Sidechain
1	I	129	ARG	Sidechain
1	I	133	ARG	Sidechain
1	I	160	ARG	Sidechain
1	I	258	ARG	Sidechain
1	I	263	ARG	Sidechain
1	I	443	ARG	Sidechain
1	I	481	ARG	Sidechain
1	I	499	ARG	Sidechain
1	I	61	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	I	64	ARG	Sidechain
1	J	129	ARG	Sidechain
1	J	133	ARG	Sidechain
1	J	160	ARG	Sidechain
1	J	258	ARG	Sidechain
1	J	263	ARG	Sidechain
1	J	443	ARG	Sidechain
1	J	481	ARG	Sidechain
1	J	499	ARG	Sidechain
1	J	61	ARG	Sidechain
1	J	64	ARG	Sidechain
1	K	129	ARG	Sidechain
1	K	133	ARG	Sidechain
1	K	160	ARG	Sidechain
1	K	258	ARG	Sidechain
1	K	263	ARG	Sidechain
1	K	443	ARG	Sidechain
1	K	481	ARG	Sidechain
1	K	499	ARG	Sidechain
1	K	61	ARG	Sidechain
1	K	64	ARG	Sidechain
1	L	129	ARG	Sidechain
1	L	133	ARG	Sidechain
1	L	160	ARG	Sidechain
1	L	258	ARG	Sidechain
1	L	263	ARG	Sidechain
1	L	443	ARG	Sidechain
1	L	481	ARG	Sidechain
1	L	499	ARG	Sidechain
1	L	61	ARG	Sidechain
1	L	64	ARG	Sidechain
1	M	129	ARG	Sidechain
1	M	133	ARG	Sidechain
1	M	160	ARG	Sidechain
1	M	258	ARG	Sidechain
1	M	263	ARG	Sidechain
1	M	443	ARG	Sidechain
1	M	481	ARG	Sidechain
1	M	499	ARG	Sidechain
1	M	61	ARG	Sidechain
1	M	64	ARG	Sidechain
1	N	129	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	N	133	ARG	Sidechain
1	N	160	ARG	Sidechain
1	N	258	ARG	Sidechain
1	N	263	ARG	Sidechain
1	N	443	ARG	Sidechain
1	N	481	ARG	Sidechain
1	N	499	ARG	Sidechain
1	N	61	ARG	Sidechain
1	N	64	ARG	Sidechain
1	O	129	ARG	Sidechain
1	O	133	ARG	Sidechain
1	O	160	ARG	Sidechain
1	O	258	ARG	Sidechain
1	O	263	ARG	Sidechain
1	O	443	ARG	Sidechain
1	O	481	ARG	Sidechain
1	O	499	ARG	Sidechain
1	O	61	ARG	Sidechain
1	O	64	ARG	Sidechain
1	P	129	ARG	Sidechain
1	P	133	ARG	Sidechain
1	P	160	ARG	Sidechain
1	P	258	ARG	Sidechain
1	P	263	ARG	Sidechain
1	P	443	ARG	Sidechain
1	P	481	ARG	Sidechain
1	P	499	ARG	Sidechain
1	P	61	ARG	Sidechain
1	P	64	ARG	Sidechain
1	Q	129	ARG	Sidechain
1	Q	133	ARG	Sidechain
1	Q	160	ARG	Sidechain
1	Q	258	ARG	Sidechain
1	Q	263	ARG	Sidechain
1	Q	443	ARG	Sidechain
1	Q	481	ARG	Sidechain
1	Q	499	ARG	Sidechain
1	Q	61	ARG	Sidechain
1	Q	64	ARG	Sidechain
1	R	129	ARG	Sidechain
1	R	133	ARG	Sidechain
1	R	160	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	R	258	ARG	Sidechain
1	R	263	ARG	Sidechain
1	R	443	ARG	Sidechain
1	R	481	ARG	Sidechain
1	R	499	ARG	Sidechain
1	R	61	ARG	Sidechain
1	R	64	ARG	Sidechain
1	S	129	ARG	Sidechain
1	S	133	ARG	Sidechain
1	S	160	ARG	Sidechain
1	S	258	ARG	Sidechain
1	S	263	ARG	Sidechain
1	S	443	ARG	Sidechain
1	S	481	ARG	Sidechain
1	S	499	ARG	Sidechain
1	S	61	ARG	Sidechain
1	S	64	ARG	Sidechain
1	T	129	ARG	Sidechain
1	T	133	ARG	Sidechain
1	T	160	ARG	Sidechain
1	T	258	ARG	Sidechain
1	T	263	ARG	Sidechain
1	T	443	ARG	Sidechain
1	T	481	ARG	Sidechain
1	T	499	ARG	Sidechain
1	T	61	ARG	Sidechain
1	T	64	ARG	Sidechain
1	U	129	ARG	Sidechain
1	U	133	ARG	Sidechain
1	U	160	ARG	Sidechain
1	U	258	ARG	Sidechain
1	U	263	ARG	Sidechain
1	U	443	ARG	Sidechain
1	U	481	ARG	Sidechain
1	U	499	ARG	Sidechain
1	U	61	ARG	Sidechain
1	U	64	ARG	Sidechain
1	V	129	ARG	Sidechain
1	V	133	ARG	Sidechain
1	V	160	ARG	Sidechain
1	V	258	ARG	Sidechain
1	V	263	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	V	443	ARG	Sidechain
1	V	481	ARG	Sidechain
1	V	499	ARG	Sidechain
1	V	61	ARG	Sidechain
1	V	64	ARG	Sidechain
1	W	129	ARG	Sidechain
1	W	133	ARG	Sidechain
1	W	160	ARG	Sidechain
1	W	258	ARG	Sidechain
1	W	263	ARG	Sidechain
1	W	443	ARG	Sidechain
1	W	481	ARG	Sidechain
1	W	499	ARG	Sidechain
1	W	61	ARG	Sidechain
1	W	64	ARG	Sidechain
1	X	129	ARG	Sidechain
1	X	133	ARG	Sidechain
1	X	160	ARG	Sidechain
1	X	258	ARG	Sidechain
1	X	263	ARG	Sidechain
1	X	443	ARG	Sidechain
1	X	481	ARG	Sidechain
1	X	499	ARG	Sidechain
1	X	61	ARG	Sidechain
1	X	64	ARG	Sidechain
1	Y	129	ARG	Sidechain
1	Y	133	ARG	Sidechain
1	Y	160	ARG	Sidechain
1	Y	258	ARG	Sidechain
1	Y	263	ARG	Sidechain
1	Y	443	ARG	Sidechain
1	Y	481	ARG	Sidechain
1	Y	499	ARG	Sidechain
1	Y	61	ARG	Sidechain
1	Y	64	ARG	Sidechain
1	Z	129	ARG	Sidechain
1	Z	133	ARG	Sidechain
1	Z	160	ARG	Sidechain
1	Z	258	ARG	Sidechain
1	Z	263	ARG	Sidechain
1	Z	443	ARG	Sidechain
1	Z	481	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	Z	499	ARG	Sidechain
1	Z	61	ARG	Sidechain
1	Z	64	ARG	Sidechain
1	a	129	ARG	Sidechain
1	a	133	ARG	Sidechain
1	a	160	ARG	Sidechain
1	a	258	ARG	Sidechain
1	a	263	ARG	Sidechain
1	a	443	ARG	Sidechain
1	a	481	ARG	Sidechain
1	a	499	ARG	Sidechain
1	a	61	ARG	Sidechain
1	a	64	ARG	Sidechain
1	b	129	ARG	Sidechain
1	b	133	ARG	Sidechain
1	b	160	ARG	Sidechain
1	b	258	ARG	Sidechain
1	b	263	ARG	Sidechain
1	b	443	ARG	Sidechain
1	b	481	ARG	Sidechain
1	b	499	ARG	Sidechain
1	b	61	ARG	Sidechain
1	b	64	ARG	Sidechain
1	c	129	ARG	Sidechain
1	c	133	ARG	Sidechain
1	c	160	ARG	Sidechain
1	c	258	ARG	Sidechain
1	c	263	ARG	Sidechain
1	c	443	ARG	Sidechain
1	c	481	ARG	Sidechain
1	c	499	ARG	Sidechain
1	c	61	ARG	Sidechain
1	c	64	ARG	Sidechain
1	d	129	ARG	Sidechain
1	d	133	ARG	Sidechain
1	d	160	ARG	Sidechain
1	d	258	ARG	Sidechain
1	d	263	ARG	Sidechain
1	d	443	ARG	Sidechain
1	d	481	ARG	Sidechain
1	d	499	ARG	Sidechain
1	d	61	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	d	64	ARG	Sidechain
1	e	129	ARG	Sidechain
1	e	133	ARG	Sidechain
1	e	160	ARG	Sidechain
1	e	258	ARG	Sidechain
1	e	263	ARG	Sidechain
1	e	443	ARG	Sidechain
1	e	481	ARG	Sidechain
1	e	499	ARG	Sidechain
1	e	61	ARG	Sidechain
1	e	64	ARG	Sidechain
1	f	129	ARG	Sidechain
1	f	133	ARG	Sidechain
1	f	160	ARG	Sidechain
1	f	258	ARG	Sidechain
1	f	263	ARG	Sidechain
1	f	443	ARG	Sidechain
1	f	481	ARG	Sidechain
1	f	499	ARG	Sidechain
1	f	61	ARG	Sidechain
1	f	64	ARG	Sidechain
1	g	129	ARG	Sidechain
1	g	133	ARG	Sidechain
1	g	160	ARG	Sidechain
1	g	258	ARG	Sidechain
1	g	263	ARG	Sidechain
1	g	443	ARG	Sidechain
1	g	481	ARG	Sidechain
1	g	499	ARG	Sidechain
1	g	61	ARG	Sidechain
1	g	64	ARG	Sidechain
1	h	129	ARG	Sidechain
1	h	133	ARG	Sidechain
1	h	160	ARG	Sidechain
1	h	258	ARG	Sidechain
1	h	263	ARG	Sidechain
1	h	443	ARG	Sidechain
1	h	481	ARG	Sidechain
1	h	499	ARG	Sidechain
1	h	61	ARG	Sidechain
1	h	64	ARG	Sidechain
1	i	129	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	i	133	ARG	Sidechain
1	i	160	ARG	Sidechain
1	i	258	ARG	Sidechain
1	i	263	ARG	Sidechain
1	i	443	ARG	Sidechain
1	i	481	ARG	Sidechain
1	i	499	ARG	Sidechain
1	i	61	ARG	Sidechain
1	i	64	ARG	Sidechain
1	j	129	ARG	Sidechain
1	j	133	ARG	Sidechain
1	j	160	ARG	Sidechain
1	j	258	ARG	Sidechain
1	j	263	ARG	Sidechain
1	j	443	ARG	Sidechain
1	j	481	ARG	Sidechain
1	j	499	ARG	Sidechain
1	j	61	ARG	Sidechain
1	j	64	ARG	Sidechain
1	k	129	ARG	Sidechain
1	k	133	ARG	Sidechain
1	k	160	ARG	Sidechain
1	k	258	ARG	Sidechain
1	k	263	ARG	Sidechain
1	k	443	ARG	Sidechain
1	k	481	ARG	Sidechain
1	k	499	ARG	Sidechain
1	k	61	ARG	Sidechain
1	k	64	ARG	Sidechain
1	l	129	ARG	Sidechain
1	l	133	ARG	Sidechain
1	l	160	ARG	Sidechain
1	l	258	ARG	Sidechain
1	l	263	ARG	Sidechain
1	l	443	ARG	Sidechain
1	l	481	ARG	Sidechain
1	l	499	ARG	Sidechain
1	l	61	ARG	Sidechain
1	l	64	ARG	Sidechain
1	m	129	ARG	Sidechain
1	m	133	ARG	Sidechain
1	m	160	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	m	258	ARG	Sidechain
1	m	263	ARG	Sidechain
1	m	443	ARG	Sidechain
1	m	481	ARG	Sidechain
1	m	499	ARG	Sidechain
1	m	61	ARG	Sidechain
1	m	64	ARG	Sidechain
1	n	129	ARG	Sidechain
1	n	133	ARG	Sidechain
1	n	160	ARG	Sidechain
1	n	258	ARG	Sidechain
1	n	263	ARG	Sidechain
1	n	443	ARG	Sidechain
1	n	481	ARG	Sidechain
1	n	499	ARG	Sidechain
1	n	61	ARG	Sidechain
1	n	64	ARG	Sidechain
1	o	129	ARG	Sidechain
1	o	133	ARG	Sidechain
1	o	160	ARG	Sidechain
1	o	258	ARG	Sidechain
1	o	263	ARG	Sidechain
1	o	443	ARG	Sidechain
1	o	481	ARG	Sidechain
1	o	499	ARG	Sidechain
1	o	61	ARG	Sidechain
1	o	64	ARG	Sidechain
1	p	129	ARG	Sidechain
1	p	133	ARG	Sidechain
1	p	160	ARG	Sidechain
1	p	258	ARG	Sidechain
1	p	263	ARG	Sidechain
1	p	443	ARG	Sidechain
1	p	481	ARG	Sidechain
1	p	499	ARG	Sidechain
1	p	61	ARG	Sidechain
1	p	64	ARG	Sidechain
1	q	129	ARG	Sidechain
1	q	133	ARG	Sidechain
1	q	160	ARG	Sidechain
1	q	258	ARG	Sidechain
1	q	263	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	q	443	ARG	Sidechain
1	q	481	ARG	Sidechain
1	q	499	ARG	Sidechain
1	q	61	ARG	Sidechain
1	q	64	ARG	Sidechain
1	r	129	ARG	Sidechain
1	r	133	ARG	Sidechain
1	r	160	ARG	Sidechain
1	r	258	ARG	Sidechain
1	r	263	ARG	Sidechain
1	r	443	ARG	Sidechain
1	r	481	ARG	Sidechain
1	r	499	ARG	Sidechain
1	r	61	ARG	Sidechain
1	r	64	ARG	Sidechain
1	s	129	ARG	Sidechain
1	s	133	ARG	Sidechain
1	s	160	ARG	Sidechain
1	s	258	ARG	Sidechain
1	s	263	ARG	Sidechain
1	s	443	ARG	Sidechain
1	s	481	ARG	Sidechain
1	s	499	ARG	Sidechain
1	s	61	ARG	Sidechain
1	s	64	ARG	Sidechain
1	t	129	ARG	Sidechain
1	t	133	ARG	Sidechain
1	t	160	ARG	Sidechain
1	t	258	ARG	Sidechain
1	t	263	ARG	Sidechain
1	t	443	ARG	Sidechain
1	t	481	ARG	Sidechain
1	t	499	ARG	Sidechain
1	t	61	ARG	Sidechain
1	t	64	ARG	Sidechain
1	u	129	ARG	Sidechain
1	u	133	ARG	Sidechain
1	u	160	ARG	Sidechain
1	u	258	ARG	Sidechain
1	u	263	ARG	Sidechain
1	u	443	ARG	Sidechain
1	u	481	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	u	499	ARG	Sidechain
1	u	61	ARG	Sidechain
1	u	64	ARG	Sidechain
1	v	129	ARG	Sidechain
1	v	133	ARG	Sidechain
1	v	160	ARG	Sidechain
1	v	258	ARG	Sidechain
1	v	263	ARG	Sidechain
1	v	443	ARG	Sidechain
1	v	481	ARG	Sidechain
1	v	499	ARG	Sidechain
1	v	61	ARG	Sidechain
1	v	64	ARG	Sidechain
1	w	129	ARG	Sidechain
1	w	133	ARG	Sidechain
1	w	160	ARG	Sidechain
1	w	258	ARG	Sidechain
1	w	263	ARG	Sidechain
1	w	443	ARG	Sidechain
1	w	481	ARG	Sidechain
1	w	499	ARG	Sidechain
1	w	61	ARG	Sidechain
1	w	64	ARG	Sidechain
1	x	129	ARG	Sidechain
1	x	133	ARG	Sidechain
1	x	160	ARG	Sidechain
1	x	258	ARG	Sidechain
1	x	263	ARG	Sidechain
1	x	443	ARG	Sidechain
1	x	481	ARG	Sidechain
1	x	499	ARG	Sidechain
1	x	61	ARG	Sidechain
1	x	64	ARG	Sidechain
1	y	129	ARG	Sidechain
1	y	133	ARG	Sidechain
1	y	160	ARG	Sidechain
1	y	258	ARG	Sidechain
1	y	263	ARG	Sidechain
1	y	443	ARG	Sidechain
1	y	481	ARG	Sidechain
1	y	499	ARG	Sidechain
1	y	61	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	y	64	ARG	Sidechain
1	z	129	ARG	Sidechain
1	z	133	ARG	Sidechain
1	z	160	ARG	Sidechain
1	z	258	ARG	Sidechain
1	z	263	ARG	Sidechain
1	z	443	ARG	Sidechain
1	z	481	ARG	Sidechain
1	z	499	ARG	Sidechain
1	z	61	ARG	Sidechain
1	z	64	ARG	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	4224	0	4120	344	0
1	1	4224	0	4120	346	0
1	2	4224	0	4120	346	0
1	3	4224	0	4120	348	0
1	4	4224	0	4120	346	0
1	5	4224	0	4120	344	0
1	6	4224	0	4120	350	0
1	7	4224	0	4120	342	0
1	A	4224	0	4120	346	0
1	B	4224	0	4120	345	0
1	C	4224	0	4120	343	0
1	D	4224	0	4120	344	0
1	E	4224	0	4120	342	0
1	F	4224	0	4120	343	0
1	G	4224	0	4120	346	0
1	H	4224	0	4120	349	0
1	I	4224	0	4120	346	0
1	J	4224	0	4120	344	0
1	K	4224	0	4120	347	0
1	L	4224	0	4120	342	0
1	M	4224	0	4120	348	0
1	N	4224	0	4120	349	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	O	4224	0	4120	346	0
1	P	4224	0	4120	345	0
1	Q	4224	0	4120	345	0
1	R	4224	0	4120	342	0
1	S	4224	0	4120	342	0
1	T	4224	0	4120	341	0
1	U	4224	0	4120	342	0
1	V	4224	0	4120	343	0
1	W	4224	0	4120	347	0
1	X	4224	0	4120	342	0
1	Y	4224	0	4120	348	0
1	Z	4224	0	4120	345	0
1	a	4224	0	4120	350	0
1	b	4224	0	4120	345	0
1	c	4224	0	4120	343	0
1	d	4224	0	4120	346	0
1	e	4224	0	4120	342	0
1	f	4224	0	4120	343	0
1	g	4224	0	4120	345	0
1	h	4224	0	4120	347	0
1	i	4224	0	4120	353	0
1	j	4224	0	4120	346	0
1	k	4224	0	4120	350	0
1	l	4224	0	4120	348	0
1	m	4224	0	4120	343	0
1	n	4224	0	4120	345	0
1	o	4224	0	4120	343	0
1	p	4224	0	4120	349	0
1	q	4224	0	4120	342	0
1	r	4224	0	4120	346	0
1	s	4224	0	4120	344	0
1	t	4224	0	4120	341	0
1	u	4224	0	4120	346	0
1	v	4224	0	4120	345	0
1	w	4224	0	4120	347	0
1	x	4224	0	4120	342	0
1	y	4224	0	4120	342	0
1	z	4224	0	4120	344	0
All	All	253440	0	247200	11285	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 23.

All (11285) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:LEU:HD21	1:H:561:TYR:CE1	1.25	1.71
1:3:561:TYR:CE1	1:b:157:LEU:HD21	1.25	1.71
1:5:157:LEU:HD21	1:d:561:TYR:CE1	1.25	1.71
1:6:561:TYR:CE1	1:Z:157:LEU:HD21	1.25	1.71
1:J:157:LEU:HD21	1:j:561:TYR:CE1	1.25	1.71
1:X:561:TYR:CE1	1:w:157:LEU:HD21	1.25	1.70
1:g:561:TYR:CE1	1:t:157:LEU:HD21	1.25	1.70
1:i:561:TYR:CE1	1:y:157:LEU:HD21	1.25	1.70
1:u:561:TYR:CE1	1:z:157:LEU:HD21	1.25	1.70
1:R:157:LEU:HD21	1:m:561:TYR:CE1	1.25	1.70
1:C:561:TYR:CE1	1:x:157:LEU:HD21	1.25	1.68
1:G:157:LEU:HD21	1:a:561:TYR:CE1	1.25	1.68
1:B:561:TYR:CE1	1:q:157:LEU:HD21	1.25	1.68
1:0:561:TYR:CE1	1:V:157:LEU:HD21	1.25	1.68
1:3:157:LEU:HD21	1:P:561:TYR:CE1	1.25	1.68
1:E:561:TYR:CE1	1:S:157:LEU:HD21	1.25	1.68
1:k:561:TYR:CE1	1:v:157:LEU:HD21	1.25	1.68
1:H:157:LEU:HD21	1:O:561:TYR:CE1	1.25	1.67
1:h:561:TYR:CE1	1:o:157:LEU:HD21	1.25	1.67
1:I:561:TYR:CE1	1:Q:157:LEU:HD21	1.25	1.67
1:2:157:LEU:HD21	1:K:561:TYR:CE1	1.25	1.66
1:X:157:LEU:HD21	1:x:561:TYR:CE1	1.25	1.66
1:N:157:LEU:HD21	1:l:561:TYR:CE1	1.25	1.66
1:S:561:TYR:CE1	1:m:157:LEU:HD21	1.25	1.66
1:o:561:TYR:CE1	1:u:157:LEU:HD21	1.25	1.65
1:1:561:TYR:CE1	1:l:157:LEU:HD21	1.25	1.65
1:4:561:TYR:CE1	1:h:157:LEU:HD21	1.25	1.64
1:Q:561:TYR:CE1	1:g:157:LEU:HD21	1.25	1.64
1:K:157:LEU:HD21	1:r:561:TYR:CE1	1.25	1.64
1:I:157:LEU:HD21	1:e:561:TYR:CE1	1.25	1.63
1:4:157:LEU:HD21	1:z:561:TYR:CE1	1.25	1.63
1:A:561:TYR:CE1	1:U:157:LEU:HD21	1.25	1.63
1:B:157:LEU:HD21	1:n:561:TYR:CE1	1.25	1.63
1:Z:561:TYR:CE1	1:r:157:LEU:HD21	1.25	1.63
1:J:561:TYR:CE1	1:c:157:LEU:HD21	1.25	1.63
1:1:157:LEU:HD21	1:y:561:TYR:CE1	1.25	1.62
1:T:157:LEU:HD21	1:U:561:TYR:CE1	1.25	1.63
1:W:561:TYR:CE1	1:a:157:LEU:HD21	1.25	1.62
1:e:157:LEU:HD21	1:t:561:TYR:CE1	1.25	1.62
1:0:157:LEU:HD21	1:c:561:TYR:CE1	1.25	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:561:TYR:CE1	1:M:157:LEU:HD21	1.25	1.62
1:b:561:TYR:CE1	1:s:157:LEU:HD21	1.25	1.62
1:C:157:LEU:HD21	1:L:561:TYR:CE1	1.25	1.62
1:5:561:TYR:CE1	1:n:157:LEU:HD21	1.25	1.62
1:7:157:LEU:HD21	1:s:561:TYR:CE1	1.25	1.62
1:E:157:LEU:HD21	1:F:561:TYR:CE1	1.25	1.62
1:V:561:TYR:CE1	1:j:157:LEU:HD21	1.25	1.62
1:Y:561:TYR:CE1	1:k:157:LEU:HD21	1.25	1.62
1:d:157:LEU:HD21	1:q:561:TYR:CE1	1.25	1.62
1:p:157:LEU:HD21	1:v:561:TYR:CE1	1.25	1.62
1:D:561:TYR:CE1	1:Y:157:LEU:HD21	1.25	1.61
1:W:157:LEU:HD21	1:f:561:TYR:CE1	1.25	1.61
1:2:561:TYR:CE1	1:6:157:LEU:HD21	1.25	1.61
1:F:157:LEU:HD21	1:R:561:TYR:CE1	1.25	1.60
1:L:157:LEU:HD21	1:w:561:TYR:CE1	1.25	1.60
1:N:561:TYR:CE1	1:i:157:LEU:HD21	1.25	1.60
1:D:157:LEU:HD21	1:p:561:TYR:CE1	1.25	1.59
1:M:561:TYR:CE1	1:f:157:LEU:HD21	1.25	1.58
1:7:561:TYR:CE1	1:P:157:LEU:HD21	1.25	1.58
1:O:157:LEU:HD21	1:T:561:TYR:CE1	1.25	1.57
1:V:73:GLN:NE2	1:j:239:ARG:HH22	1.09	1.50
1:d:239:ARG:HH22	1:q:73:GLN:NE2	1.09	1.50
1:G:73:GLN:NE2	1:M:239:ARG:HH22	1.09	1.50
1:p:239:ARG:HH22	1:v:73:GLN:NE2	1.09	1.49
1:3:73:GLN:NE2	1:b:239:ARG:HH22	1.09	1.48
1:7:73:GLN:NE2	1:P:239:ARG:HH22	1.09	1.48
1:A:239:ARG:HH22	1:H:73:GLN:NE2	1.09	1.48
1:W:73:GLN:NE2	1:a:239:ARG:HH22	1.09	1.48
1:X:239:ARG:HH22	1:x:73:GLN:NE2	1.09	1.48
1:Y:73:GLN:NE2	1:k:239:ARG:HH22	1.09	1.48
1:O:239:ARG:HH22	1:T:73:GLN:NE2	1.09	1.48
1:W:239:ARG:HH22	1:f:73:GLN:NE2	1.09	1.48
1:i:73:GLN:NE2	1:y:239:ARG:HH22	1.09	1.47
1:S:73:GLN:NE2	1:m:239:ARG:HH22	1.09	1.47
1:6:73:GLN:NE2	1:Z:239:ARG:HH22	1.09	1.47
1:D:73:GLN:NE2	1:Y:239:ARG:HH22	1.09	1.47
1:I:73:GLN:NE2	1:Q:239:ARG:HH22	1.09	1.47
1:B:73:GLN:NE2	1:q:239:ARG:HH22	1.09	1.47
1:h:73:GLN:NE2	1:o:239:ARG:HH22	1.09	1.46
1:0:73:GLN:NE2	1:V:239:ARG:HH22	1.09	1.46
1:C:239:ARG:HH22	1:L:73:GLN:NE2	1.09	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:ARG:HH22	1:n:73:GLN:NE2	1.09	1.46
1:E:239:ARG:HH22	1:F:73:GLN:NE2	1.09	1.45
1:O:239:ARG:HH22	1:c:73:GLN:NE2	1.09	1.45
1:L:239:ARG:HH22	1:w:73:GLN:NE2	1.09	1.45
1:5:239:ARG:HH22	1:d:73:GLN:NE2	1.09	1.45
1:F:239:ARG:HH22	1:R:73:GLN:NE2	1.09	1.45
1:J:239:ARG:HH22	1:j:73:GLN:NE2	1.09	1.44
1:3:239:ARG:HH22	1:P:73:GLN:NE2	1.09	1.44
1:u:73:GLN:NE2	1:z:239:ARG:HH22	1.09	1.44
1:H:239:ARG:HH22	1:O:73:GLN:NE2	1.09	1.44
1:g:73:GLN:NE2	1:t:239:ARG:HH22	1.09	1.43
1:T:239:ARG:HH22	1:U:73:GLN:NE2	1.09	1.43
1:C:73:GLN:NE2	1:x:239:ARG:HH22	1.09	1.43
1:E:73:GLN:NE2	1:S:239:ARG:HH22	1.09	1.43
1:7:239:ARG:HH22	1:s:73:GLN:NE2	1.09	1.42
1:M:73:GLN:NE2	1:f:239:ARG:HH22	1.09	1.42
1:N:73:GLN:NE2	1:i:239:ARG:HH22	1.09	1.42
1:1:73:GLN:NE2	1:l:239:ARG:HH22	1.09	1.42
1:4:73:GLN:NE2	1:h:239:ARG:HH22	1.09	1.42
1:I:239:ARG:HH22	1:e:73:GLN:NE2	1.09	1.41
1:Q:73:GLN:NE2	1:g:239:ARG:HH22	1.09	1.41
1:K:239:ARG:HH22	1:r:73:GLN:NE2	1.09	1.41
1:o:73:GLN:NE2	1:u:239:ARG:HH22	1.09	1.41
1:2:73:GLN:NE2	1:6:239:ARG:HH22	1.09	1.41
1:D:239:ARG:HH22	1:p:73:GLN:NE2	1.09	1.41
1:X:73:GLN:NE2	1:w:239:ARG:HH22	1.09	1.41
1:1:239:ARG:HH22	1:y:73:GLN:NE2	1.09	1.41
1:R:239:ARG:HH22	1:m:73:GLN:NE2	1.09	1.40
1:Z:73:GLN:NE2	1:r:239:ARG:HH22	1.09	1.40
1:e:239:ARG:HH22	1:t:73:GLN:NE2	1.09	1.40
1:4:239:ARG:HH22	1:z:73:GLN:NE2	1.09	1.40
1:G:239:ARG:HH22	1:a:73:GLN:NE2	1.09	1.40
1:k:73:GLN:NE2	1:v:239:ARG:HH22	1.09	1.40
1:J:73:GLN:NE2	1:c:239:ARG:HH22	1.09	1.39
1:5:73:GLN:NE2	1:n:239:ARG:HH22	1.09	1.38
1:A:73:GLN:NE2	1:U:239:ARG:HH22	1.09	1.38
1:Q:212:PHE:CD2	1:o:560:THR:OG1	1.77	1.38
1:O:212:PHE:CE2	1:U:560:THR:OG1	1.77	1.38
1:7:73:GLN:NE2	1:P:239:ARG:NH2	1.72	1.37
1:B:212:PHE:CE2	1:s:560:THR:OG1	1.77	1.38
1:N:239:ARG:HH22	1:l:73:GLN:NE2	1.09	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:239:ARG:NH2	1:T:73:GLN:NE2	1.72	1.37
1:Q:560:THR:OG1	1:o:212:PHE:CD2	1.77	1.37
1:X:212:PHE:CE2	1:t:560:THR:OG1	1.77	1.38
1:b:73:GLN:NE2	1:s:239:ARG:HH22	1.09	1.38
1:m:212:PHE:CE2	1:z:560:THR:OG1	1.77	1.37
1:H:239:ARG:NH2	1:O:73:GLN:NE2	1.72	1.37
1:S:73:GLN:NE2	1:m:239:ARG:NH2	1.72	1.37
1:g:212:PHE:CE2	1:r:560:THR:OG1	1.77	1.37
1:1:560:THR:OG1	1:u:212:PHE:CE2	1.77	1.37
1:2:239:ARG:HH22	1:K:73:GLN:NE2	1.09	1.37
1:3:239:ARG:NH2	1:P:73:GLN:NE2	1.72	1.37
1:5:560:THR:OG1	1:F:212:PHE:CE2	1.77	1.37
1:C:560:THR:OG1	1:a:212:PHE:CD2	1.77	1.37
1:I:560:THR:OG1	1:l:212:PHE:CE2	1.77	1.37
1:J:212:PHE:CE2	1:L:560:THR:OG1	1.77	1.37
1:K:212:PHE:CE2	1:h:560:THR:OG1	1.77	1.37
1:W:73:GLN:NE2	1:a:239:ARG:NH2	1.72	1.37
1:X:239:ARG:NH2	1:x:73:GLN:NE2	1.72	1.37
1:Y:73:GLN:NE2	1:k:239:ARG:NH2	1.72	1.37
1:5:212:PHE:CE2	1:F:560:THR:OG1	1.77	1.37
1:D:73:GLN:NE2	1:Y:239:ARG:NH2	1.72	1.37
1:E:560:THR:OG1	1:k:212:PHE:CD2	1.77	1.37
1:J:560:THR:OG1	1:L:212:PHE:CE2	1.77	1.37
1:d:212:PHE:CE2	1:v:560:THR:OG1	1.77	1.37
1:4:73:GLN:NE2	1:h:239:ARG:NH2	1.72	1.37
1:G:560:THR:OG1	1:j:212:PHE:CE2	1.77	1.37
1:Q:212:PHE:CE2	1:o:560:THR:OG1	1.77	1.37
1:Q:560:THR:OG1	1:o:212:PHE:CE2	1.77	1.37
1:W:239:ARG:NH2	1:f:73:GLN:NE2	1.72	1.37
1:D:212:PHE:CE2	1:V:560:THR:OG1	1.77	1.36
1:E:212:PHE:CE2	1:k:560:THR:OG1	1.77	1.36
1:f:212:PHE:CE2	1:q:560:THR:OG1	1.77	1.36
1:0:560:THR:OG1	1:U:212:PHE:CE2	1.77	1.36
1:B:239:ARG:NH2	1:n:73:GLN:NE2	1.72	1.36
1:C:212:PHE:CE2	1:a:560:THR:OG1	1.77	1.36
1:I:239:ARG:NH2	1:e:73:GLN:NE2	1.72	1.36
1:i:212:PHE:CE2	1:n:560:THR:OG1	1.77	1.36
1:6:212:PHE:CE2	1:c:560:THR:OG1	1.77	1.36
1:A:239:ARG:NH2	1:H:73:GLN:NE2	1.72	1.36
1:B:560:THR:OG1	1:s:212:PHE:CE2	1.77	1.36
1:M:212:PHE:CE2	1:p:560:THR:OG1	1.77	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:212:PHE:CE2	1:b:560:THR:OG1	1.77	1.36
1:f:212:PHE:CD2	1:q:560:THR:OG1	1.77	1.36
1:0:239:ARG:NH2	1:c:73:GLN:NE2	1.72	1.36
1:C:73:GLN:NE2	1:x:239:ARG:NH2	1.72	1.36
1:M:560:THR:OG1	1:p:212:PHE:CE2	1.77	1.36
1:R:239:ARG:NH2	1:m:73:GLN:NE2	1.72	1.36
1:W:560:THR:OG1	1:b:212:PHE:CE2	1.77	1.36
1:2:73:GLN:NE2	1:6:239:ARG:NH2	1.72	1.36
1:3:73:GLN:NE2	1:b:239:ARG:NH2	1.72	1.36
1:4:239:ARG:NH2	1:z:73:GLN:NE2	1.72	1.36
1:D:212:PHE:CD2	1:V:560:THR:OG1	1.77	1.36
1:E:73:GLN:NE2	1:S:239:ARG:NH2	1.72	1.36
1:3:212:PHE:CE2	1:x:560:THR:OG1	1.77	1.35
1:7:239:ARG:NH2	1:s:73:GLN:NE2	1.72	1.35
1:A:73:GLN:NE2	1:U:239:ARG:NH2	1.72	1.35
1:A:212:PHE:CE2	1:Y:560:THR:OG1	1.77	1.35
1:N:73:GLN:NE2	1:i:239:ARG:NH2	1.72	1.35
1:X:73:GLN:NE2	1:w:239:ARG:NH2	1.72	1.35
1:g:73:GLN:NE2	1:t:239:ARG:NH2	1.72	1.35
1:u:73:GLN:NE2	1:z:239:ARG:NH2	1.72	1.35
1:3:560:THR:OG1	1:x:212:PHE:CE2	1.77	1.35
1:H:212:PHE:CE2	1:S:560:THR:OG1	1.77	1.35
1:T:239:ARG:NH2	1:U:73:GLN:NE2	1.72	1.35
1:b:73:GLN:NE2	1:s:239:ARG:NH2	1.72	1.35
1:e:239:ARG:NH2	1:t:73:GLN:NE2	1.72	1.35
1:4:212:PHE:CD2	1:O:560:THR:OG1	1.77	1.35
1:G:212:PHE:CE2	1:j:560:THR:OG1	1.77	1.35
1:J:73:GLN:NE2	1:c:239:ARG:NH2	1.72	1.35
1:d:560:THR:OG1	1:v:212:PHE:CE2	1.77	1.35
1:E:239:ARG:NH2	1:F:73:GLN:NE2	1.72	1.35
1:H:560:THR:OG1	1:S:212:PHE:CE2	1.77	1.35
1:K:239:ARG:NH2	1:r:73:GLN:NE2	1.72	1.35
1:L:239:ARG:NH2	1:w:73:GLN:NE2	1.72	1.35
1:P:560:THR:OG1	1:e:212:PHE:CE2	1.77	1.35
1:Z:560:THR:OG1	1:w:212:PHE:CE2	1.77	1.35
1:1:73:GLN:NE2	1:l:239:ARG:NH2	1.72	1.35
1:2:212:PHE:CE2	1:T:560:THR:OG1	1.77	1.35
1:5:73:GLN:NE2	1:n:239:ARG:NH2	1.72	1.35
1:C:239:ARG:NH2	1:L:73:GLN:NE2	1.72	1.35
1:G:73:GLN:NE2	1:M:239:ARG:NH2	1.72	1.35
1:R:212:PHE:CE2	1:y:560:THR:OG1	1.77	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:239:ARG:NH2	1:v:73:GLN:NE2	1.72	1.35
1:7:212:PHE:CE2	1:N:560:THR:OG1	1.77	1.34
1:F:239:ARG:NH2	1:R:73:GLN:NE2	1.72	1.34
1:i:73:GLN:NE2	1:y:239:ARG:NH2	1.72	1.34
1:i:560:THR:OG1	1:n:212:PHE:CE2	1.77	1.34
1:2:560:THR:OG1	1:T:212:PHE:CE2	1.77	1.34
1:6:73:GLN:NE2	1:Z:239:ARG:NH2	1.72	1.34
1:6:560:THR:OG1	1:c:212:PHE:CE2	1.77	1.34
1:7:560:THR:OG1	1:N:212:PHE:CE2	1.77	1.34
1:R:560:THR:OG1	1:y:212:PHE:CE2	1.77	1.34
1:V:73:GLN:NE2	1:j:239:ARG:NH2	1.72	1.34
1:d:239:ARG:NH2	1:q:73:GLN:NE2	1.72	1.34
1:4:212:PHE:CE2	1:O:560:THR:OG1	1.77	1.34
1:M:73:GLN:NE2	1:f:239:ARG:NH2	1.72	1.34
1:Z:212:PHE:CE2	1:w:560:THR:OG1	1.77	1.34
1:i:560:THR:OG1	1:n:212:PHE:CD2	1.77	1.34
1:J:239:ARG:NH2	1:j:73:GLN:NE2	1.72	1.34
1:o:73:GLN:NE2	1:u:239:ARG:NH2	1.72	1.34
1:D:239:ARG:NH2	1:p:73:GLN:NE2	1.72	1.34
1:G:239:ARG:NH2	1:a:73:GLN:NE2	1.72	1.34
1:N:239:ARG:NH2	1:l:73:GLN:NE2	1.72	1.34
1:k:73:GLN:NE2	1:v:239:ARG:NH2	1.72	1.34
1:O:73:GLN:NE2	1:V:239:ARG:NH2	1.72	1.33
1:2:239:ARG:NH2	1:K:73:GLN:NE2	1.72	1.33
1:6:560:THR:OG1	1:c:212:PHE:CD2	1.77	1.33
1:Q:73:GLN:NE2	1:g:239:ARG:NH2	1.72	1.33
1:5:239:ARG:NH2	1:d:73:GLN:NE2	1.72	1.33
1:Z:73:GLN:NE2	1:r:239:ARG:NH2	1.72	1.33
1:4:560:THR:OG1	1:O:212:PHE:CE2	1.77	1.33
1:B:73:GLN:NE2	1:q:239:ARG:NH2	1.72	1.33
1:1:239:ARG:NH2	1:y:73:GLN:NE2	1.72	1.33
1:2:212:PHE:CD2	1:T:560:THR:OG1	1.77	1.33
1:7:560:THR:OG1	1:N:212:PHE:CD2	1.77	1.33
1:P:212:PHE:CE2	1:e:560:THR:OG1	1.77	1.32
1:f:560:THR:OG1	1:q:212:PHE:CE2	1.77	1.32
1:D:560:THR:OG1	1:V:212:PHE:CE2	1.77	1.32
1:1:212:PHE:CE2	1:u:560:THR:OG1	1.77	1.32
1:I:212:PHE:CE2	1:l:560:THR:OG1	1.77	1.32
1:H:212:PHE:CD2	1:S:560:THR:OG1	1.77	1.31
1:K:560:THR:OG1	1:h:212:PHE:CE2	1.77	1.31
1:h:73:GLN:NE2	1:o:239:ARG:NH2	1.72	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:212:PHE:CD2	1:x:560:THR:OG1	1.77	1.31
1:K:560:THR:OG1	1:h:212:PHE:CD2	1.77	1.31
1:W:212:PHE:CD2	1:b:560:THR:OG1	1.77	1.31
1:A:560:THR:OG1	1:Y:212:PHE:CD2	1.77	1.31
1:I:73:GLN:NE2	1:Q:239:ARG:NH2	1.72	1.31
1:I:212:PHE:CD2	1:l:560:THR:OG1	1.77	1.31
1:G:560:THR:OG1	1:j:212:PHE:CD2	1.77	1.30
1:Z:56:GLN:HE22	1:c:48:LYS:N	1.29	1.30
1:n:48:LYS:N	1:y:56:GLN:HE22	1.29	1.30
1:I:560:THR:OG1	1:l:212:PHE:CD2	1.77	1.30
1:K:212:PHE:CD2	1:h:560:THR:OG1	1.77	1.30
1:d:56:GLN:HE22	1:f:48:LYS:N	1.29	1.30
1:D:48:LYS:N	1:j:56:GLN:HE22	1.29	1.30
1:d:212:PHE:CD2	1:v:560:THR:OG1	1.77	1.30
1:i:212:PHE:CD2	1:n:560:THR:OG1	1.77	1.29
1:k:73:GLN:HE22	1:v:239:ARG:NH2	1.29	1.29
1:2:56:GLN:HE22	1:h:48:LYS:N	1.29	1.29
1:5:48:LYS:N	1:E:56:GLN:HE22	1.29	1.29
1:C:56:GLN:HE22	1:J:48:LYS:N	1.29	1.29
1:1:56:GLN:HE22	1:R:48:LYS:N	1.29	1.29
1:B:212:PHE:CD2	1:s:560:THR:OG1	1.77	1.29
1:I:48:LYS:N	1:N:56:GLN:HE22	1.29	1.29
1:I:56:GLN:HE22	1:P:48:LYS:N	1.29	1.29
1:S:56:GLN:HE22	1:k:48:LYS:N	1.29	1.29
1:a:48:LYS:N	1:x:56:GLN:HE22	1.29	1.29
1:O:48:LYS:N	1:h:56:GLN:HE22	1.29	1.29
1:Q:48:LYS:N	1:u:56:GLN:HE22	1.29	1.29
1:q:56:GLN:HE22	1:s:48:LYS:N	1.29	1.29
1:7:56:GLN:HE22	1:B:48:LYS:N	1.29	1.29
1:U:48:LYS:N	1:V:56:GLN:HE22	1.29	1.29
1:r:56:GLN:HE22	1:w:48:LYS:N	1.29	1.29
1:0:212:PHE:CD2	1:U:560:THR:OG1	1.77	1.28
1:5:56:GLN:HE22	1:v:48:LYS:N	1.29	1.28
1:G:48:LYS:N	1:J:56:GLN:HE22	1.29	1.28
1:R:56:GLN:HE22	1:z:48:LYS:N	1.29	1.28
1:f:56:GLN:HE22	1:p:48:LYS:N	1.29	1.28
1:g:56:GLN:HE22	1:o:48:LYS:N	1.29	1.28
1:i:73:GLN:HE22	1:y:239:ARG:NH2	1.29	1.28
1:t:48:LYS:N	1:w:56:GLN:HE22	1.29	1.28
1:0:48:LYS:N	1:T:56:GLN:HE22	1.29	1.28
1:3:56:GLN:HE22	1:e:48:LYS:N	1.29	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:73:GLN:HE22	1:Z:239:ARG:NH2	1.29	1.28
1:J:560:THR:OG1	1:L:212:PHE:CD2	1.77	1.28
1:P:212:PHE:CD2	1:e:560:THR:OG1	1.77	1.28
1:2:48:LYS:N	1:O:56:GLN:HE22	1.29	1.28
1:4:48:LYS:N	1:H:56:GLN:HE22	1.29	1.28
1:C:48:LYS:N	1:G:56:GLN:HE22	1.29	1.28
1:D:56:GLN:HE22	1:M:48:LYS:N	1.29	1.28
1:B:560:THR:OG1	1:s:212:PHE:CD2	1.77	1.28
1:D:157:LEU:CD2	1:p:561:TYR:CE1	2.17	1.28
1:L:56:GLN:HE22	1:Z:48:LYS:N	1.29	1.28
1:M:561:TYR:CE1	1:f:157:LEU:CD2	2.17	1.28
1:W:48:LYS:N	1:s:56:GLN:HE22	1.29	1.28
1:5:560:THR:OG1	1:F:212:PHE:CD2	1.77	1.28
1:7:48:LYS:N	1:i:56:GLN:HE22	1.29	1.28
1:B:56:GLN:HE22	1:i:48:LYS:N	1.29	1.28
1:D:561:TYR:CE1	1:Y:157:LEU:CD2	2.17	1.28
1:E:48:LYS:N	1:v:56:GLN:HE22	1.29	1.28
1:F:56:GLN:HE22	1:y:48:LYS:N	1.29	1.28
1:N:48:LYS:N	1:P:56:GLN:HE22	1.29	1.28
1:O:157:LEU:CD2	1:T:561:TYR:CE1	2.17	1.28
1:U:56:GLN:HE22	1:Y:48:LYS:N	1.29	1.28
1:W:157:LEU:CD2	1:f:561:TYR:CE1	2.17	1.28
1:4:560:THR:OG1	1:O:212:PHE:CD2	1.77	1.27
1:5:157:LEU:CD2	1:d:561:TYR:CE1	2.17	1.27
1:6:56:GLN:HE22	1:T:48:LYS:N	1.29	1.27
1:7:561:TYR:CE1	1:P:157:LEU:CD2	2.17	1.27
1:C:157:LEU:CD2	1:L:561:TYR:CE1	2.17	1.27
1:E:157:LEU:CD2	1:F:561:TYR:CE1	2.17	1.27
1:F:48:LYS:N	1:n:56:GLN:HE22	1.29	1.27
1:G:561:TYR:CE1	1:M:157:LEU:CD2	2.17	1.27
1:H:48:LYS:N	1:m:56:GLN:HE22	1.29	1.27
1:J:157:LEU:CD2	1:j:561:TYR:CE1	2.17	1.27
1:J:561:TYR:CD1	1:c:157:LEU:HD21	1.69	1.27
1:K:48:LYS:N	1:o:56:GLN:HE22	1.29	1.27
1:L:48:LYS:N	1:c:56:GLN:HE22	1.29	1.27
1:R:157:LEU:CD2	1:m:561:TYR:CE1	2.17	1.27
1:p:157:LEU:CD2	1:v:561:TYR:CE1	2.17	1.27
1:0:56:GLN:HE22	1:6:48:LYS:N	1.29	1.27
1:2:561:TYR:CE1	1:6:157:LEU:CD2	2.17	1.27
1:4:561:TYR:CE1	1:h:157:LEU:CD2	2.17	1.27
1:5:561:TYR:CD1	1:n:157:LEU:HD21	1.69	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:LEU:CD2	1:H:561:TYR:CE1	2.17	1.27
1:I:157:LEU:CD2	1:e:561:TYR:CE1	2.17	1.27
1:R:560:THR:OG1	1:y:212:PHE:CD2	1.77	1.27
1:X:561:TYR:CE1	1:w:157:LEU:CD2	2.17	1.27
1:O:560:THR:OG1	1:U:212:PHE:CD2	1.77	1.27
1:O:561:TYR:CD1	1:V:157:LEU:HD21	1.70	1.27
1:l:48:LYS:N	1:z:56:GLN:HE22	1.29	1.27
1:3:48:LYS:N	1:X:56:GLN:HE22	1.29	1.27
1:3:561:TYR:CE1	1:b:157:LEU:CD2	2.17	1.27
1:A:48:LYS:N	1:k:56:GLN:HE22	1.29	1.27
1:I:561:TYR:CE1	1:Q:157:LEU:CD2	2.17	1.27
1:N:561:TYR:CE1	1:i:157:LEU:CD2	2.17	1.27
1:Q:56:GLN:HE22	1:l:48:LYS:N	1.29	1.27
1:Z:212:PHE:CD2	1:w:560:THR:OG1	1.77	1.27
1:b:56:GLN:HE22	1:x:48:LYS:N	1.29	1.27
1:h:561:TYR:CE1	1:o:157:LEU:CD2	2.17	1.27
1:r:48:LYS:N	1:t:56:GLN:HE22	1.29	1.27
1:B:561:TYR:CD1	1:q:157:LEU:HD21	1.70	1.27
1:G:157:LEU:CD2	1:a:561:TYR:CE1	2.17	1.27
1:K:56:GLN:HE22	1:g:48:LYS:N	1.29	1.27
1:a:56:GLN:HE22	1:b:48:LYS:N	1.29	1.27
1:k:561:TYR:CE1	1:v:157:LEU:CD2	2.17	1.27
1:l:56:GLN:HE22	1:u:48:LYS:N	1.29	1.27
1:O:157:LEU:HD21	1:c:561:TYR:CD1	1.70	1.27
1:A:56:GLN:HE22	1:S:48:LYS:N	1.29	1.27
1:F:157:LEU:HD21	1:R:561:TYR:CD1	1.69	1.27
1:L:157:LEU:HD21	1:w:561:TYR:CD1	1.70	1.27
1:O:157:LEU:HD21	1:T:561:TYR:CD1	1.70	1.27
1:4:157:LEU:CD2	1:z:561:TYR:CE1	2.17	1.26
1:7:561:TYR:CD1	1:P:157:LEU:HD21	1.70	1.26
1:B:157:LEU:HD21	1:n:561:TYR:CD1	1.70	1.26
1:X:48:LYS:N	1:e:56:GLN:HE22	1.29	1.26
1:d:48:LYS:N	1:p:56:GLN:HE22	1.29	1.26
1:i:561:TYR:CE1	1:y:157:LEU:CD2	2.17	1.26
1:6:561:TYR:CE1	1:Z:157:LEU:CD2	2.17	1.26
1:B:157:LEU:CD2	1:n:561:TYR:CE1	2.17	1.26
1:J:73:GLN:HE22	1:c:239:ARG:NH2	1.29	1.26
1:J:157:LEU:HD21	1:j:561:TYR:CD1	1.70	1.26
1:K:157:LEU:CD2	1:r:561:TYR:CE1	2.17	1.26
1:M:56:GLN:HE22	1:j:48:LYS:N	1.29	1.26
1:S:561:TYR:CE1	1:m:157:LEU:CD2	2.17	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:157:LEU:CD2	1:x:561:TYR:CE1	2.17	1.26
1:e:157:LEU:CD2	1:t:561:TYR:CE1	2.17	1.26
1:0:157:LEU:CD2	1:c:561:TYR:CE1	2.17	1.26
1:1:561:TYR:CE1	1:l:157:LEU:CD2	2.17	1.26
1:4:56:GLN:HE22	1:m:48:LYS:N	1.29	1.26
1:5:157:LEU:HD21	1:d:561:TYR:CD1	1.70	1.26
1:B:561:TYR:CE1	1:q:157:LEU:CD2	2.17	1.26
1:W:56:GLN:HE22	1:q:48:LYS:N	1.29	1.26
1:0:561:TYR:CE1	1:V:157:LEU:CD2	2.17	1.26
1:1:157:LEU:HD21	1:y:561:TYR:CD1	1.69	1.26
1:3:561:TYR:CD1	1:b:157:LEU:HD21	1.70	1.26
1:5:73:GLN:HE22	1:n:239:ARG:NH2	1.29	1.26
1:6:561:TYR:CD1	1:Z:157:LEU:HD21	1.70	1.26
1:D:561:TYR:CD1	1:Y:157:LEU:HD21	1.70	1.26
1:E:561:TYR:CE1	1:S:157:LEU:CD2	2.17	1.26
1:G:212:PHE:CD2	1:j:560:THR:OG1	1.77	1.26
1:H:157:LEU:CD2	1:O:561:TYR:CE1	2.17	1.26
1:T:157:LEU:CD2	1:U:561:TYR:CE1	2.17	1.26
1:W:157:LEU:HD21	1:f:561:TYR:CD1	1.70	1.26
1:W:561:TYR:CE1	1:a:157:LEU:CD2	2.17	1.26
1:Z:561:TYR:CD1	1:r:157:LEU:HD21	1.70	1.26
1:d:239:ARG:NH2	1:q:73:GLN:HE22	1.29	1.26
1:i:561:TYR:CD1	1:y:157:LEU:HD21	1.70	1.26
1:p:157:LEU:HD21	1:v:561:TYR:CD1	1.69	1.26
1:2:157:LEU:HD21	1:K:561:TYR:CD1	1.70	1.26
1:3:157:LEU:CD2	1:P:561:TYR:CE1	2.17	1.26
1:A:157:LEU:HD21	1:H:561:TYR:CD1	1.70	1.26
1:C:561:TYR:CE1	1:x:157:LEU:CD2	2.17	1.26
1:G:561:TYR:CD1	1:M:157:LEU:HD21	1.69	1.26
1:K:157:LEU:HD21	1:r:561:TYR:CD1	1.70	1.26
1:N:157:LEU:HD21	1:l:561:TYR:CD1	1.70	1.26
1:S:561:TYR:CD1	1:m:157:LEU:HD21	1.70	1.26
1:V:48:LYS:N	1:Y:56:GLN:HE22	1.29	1.26
1:V:73:GLN:HE22	1:j:239:ARG:NH2	1.29	1.26
1:V:561:TYR:CE1	1:j:157:LEU:CD2	2.17	1.26
1:V:561:TYR:CD1	1:j:157:LEU:HD21	1.69	1.26
1:Z:561:TYR:CE1	1:r:157:LEU:CD2	2.17	1.26
1:h:561:TYR:CD1	1:o:157:LEU:HD21	1.69	1.26
1:1:56:GLN:NE2	1:R:48:LYS:N	1.84	1.25
1:1:561:TYR:CD1	1:l:157:LEU:HD21	1.70	1.25
1:3:73:GLN:HE22	1:b:239:ARG:NH2	1.29	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:560:THR:OG1	1:x:212:PHE:CD2	1.77	1.25
1:7:157:LEU:CD2	1:s:561:TYR:CE1	2.17	1.25
1:G:157:LEU:HD21	1:a:561:TYR:CD1	1.70	1.25
1:I:561:TYR:CD1	1:Q:157:LEU:HD21	1.69	1.25
1:T:157:LEU:HD21	1:U:561:TYR:CD1	1.70	1.25
1:U:56:GLN:NE2	1:Y:48:LYS:N	1.84	1.25
1:W:48:LYS:N	1:s:56:GLN:NE2	1.84	1.25
1:W:561:TYR:CD1	1:a:157:LEU:HD21	1.70	1.25
1:X:157:LEU:HD21	1:x:561:TYR:CD1	1.70	1.25
1:Y:561:TYR:CE1	1:k:157:LEU:CD2	2.17	1.25
1:Y:561:TYR:CD1	1:k:157:LEU:HD21	1.70	1.25
1:d:157:LEU:HD21	1:q:561:TYR:CD1	1.70	1.25
1:d:157:LEU:CD2	1:q:561:TYR:CE1	2.17	1.25
1:d:560:THR:OG1	1:v:212:PHE:CD2	1.77	1.25
1:k:561:TYR:CD1	1:v:157:LEU:HD21	1.70	1.25
1:m:212:PHE:CD2	1:z:560:THR:OG1	1.77	1.25
1:r:56:GLN:NE2	1:w:48:LYS:N	1.84	1.25
1:0:48:LYS:N	1:T:56:GLN:NE2	1.84	1.25
1:0:239:ARG:NH2	1:c:73:GLN:HE22	1.29	1.25
1:1:157:LEU:CD2	1:y:561:TYR:CE1	2.17	1.25
1:3:239:ARG:NH2	1:P:73:GLN:HE22	1.29	1.25
1:7:56:GLN:NE2	1:B:48:LYS:N	1.84	1.25
1:7:157:LEU:HD21	1:s:561:TYR:CD1	1.70	1.25
1:C:157:LEU:HD21	1:L:561:TYR:CD1	1.70	1.25
1:D:157:LEU:HD21	1:p:561:TYR:CD1	1.70	1.25
1:F:157:LEU:CD2	1:R:561:TYR:CE1	2.17	1.25
1:K:239:ARG:NH2	1:r:73:GLN:HE22	1.29	1.25
1:L:157:LEU:CD2	1:w:561:TYR:CE1	2.17	1.25
1:M:561:TYR:CD1	1:f:157:LEU:HD21	1.70	1.25
1:3:157:LEU:HD21	1:P:561:TYR:CD1	1.69	1.25
1:4:561:TYR:CD1	1:h:157:LEU:HD21	1.70	1.25
1:5:561:TYR:CE1	1:n:157:LEU:CD2	2.17	1.25
1:A:239:ARG:NH2	1:H:73:GLN:HE22	1.29	1.25
1:B:239:ARG:NH2	1:n:73:GLN:HE22	1.29	1.25
1:D:48:LYS:N	1:j:56:GLN:NE2	1.84	1.25
1:E:157:LEU:HD21	1:F:561:TYR:CD1	1.70	1.25
1:F:48:LYS:N	1:n:56:GLN:NE2	1.84	1.25
1:H:157:LEU:HD21	1:O:561:TYR:CD1	1.70	1.25
1:H:239:ARG:NH2	1:O:73:GLN:HE22	1.29	1.25
1:L:48:LYS:N	1:c:56:GLN:NE2	1.84	1.25
1:N:157:LEU:CD2	1:l:561:TYR:CE1	2.17	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:561:TYR:CE1	1:g:157:LEU:CD2	2.17	1.25
1:d:56:GLN:NE2	1:f:48:LYS:N	1.84	1.25
1:J:561:TYR:CE1	1:c:157:LEU:CD2	2.17	1.25
1:a:56:GLN:NE2	1:b:48:LYS:N	1.84	1.25
1:b:561:TYR:CD1	1:s:157:LEU:HD21	1.70	1.25
1:g:560:THR:OG1	1:r:212:PHE:CD2	1.77	1.25
1:o:561:TYR:CE1	1:u:157:LEU:CD2	2.17	1.25
1:l:73:GLN:HE22	1:l:239:ARG:NH2	1.29	1.25
1:2:157:LEU:CD2	1:K:561:TYR:CE1	2.17	1.25
1:2:561:TYR:CD1	1:6:157:LEU:HD21	1.69	1.25
1:3:56:GLN:NE2	1:e:48:LYS:N	1.84	1.25
1:4:48:LYS:N	1:H:56:GLN:NE2	1.84	1.25
1:4:157:LEU:HD21	1:z:561:TYR:CD1	1.70	1.25
1:5:48:LYS:N	1:E:56:GLN:NE2	1.85	1.25
1:A:48:LYS:N	1:k:56:GLN:NE2	1.84	1.25
1:A:561:TYR:CE1	1:U:157:LEU:CD2	2.17	1.25
1:A:561:TYR:CD1	1:U:157:LEU:HD21	1.70	1.25
1:C:561:TYR:CD1	1:x:157:LEU:HD21	1.69	1.25
1:I:157:LEU:HD21	1:e:561:TYR:CD1	1.70	1.25
1:N:561:TYR:CD1	1:i:157:LEU:HD21	1.69	1.25
1:X:560:THR:OG1	1:t:212:PHE:CE2	1.77	1.25
1:m:560:THR:OG1	1:z:212:PHE:CE2	1.77	1.25
1:r:48:LYS:N	1:t:56:GLN:NE2	1.84	1.25
1:1:48:LYS:N	1:z:56:GLN:NE2	1.84	1.25
1:C:56:GLN:NE2	1:J:48:LYS:N	1.85	1.25
1:H:560:THR:OG1	1:S:212:PHE:CD2	1.77	1.25
1:R:157:LEU:HD21	1:m:561:TYR:CD1	1.70	1.25
1:X:212:PHE:CD2	1:t:560:THR:OG1	1.77	1.25
1:b:561:TYR:CE1	1:s:157:LEU:CD2	2.17	1.25
1:e:157:LEU:HD21	1:t:561:TYR:CD1	1.70	1.25
1:g:561:TYR:CD1	1:t:157:LEU:HD21	1.70	1.25
1:u:561:TYR:CE1	1:z:157:LEU:CD2	2.17	1.25
1:7:212:PHE:CD2	1:N:560:THR:OG1	1.77	1.24
1:E:561:TYR:CD1	1:S:157:LEU:HD21	1.69	1.24
1:N:48:LYS:N	1:P:56:GLN:NE2	1.85	1.24
1:S:56:GLN:NE2	1:k:48:LYS:N	1.84	1.24
1:X:561:TYR:CD1	1:w:157:LEU:HD21	1.69	1.24
1:a:48:LYS:N	1:x:56:GLN:NE2	1.84	1.24
1:g:561:TYR:CE1	1:t:157:LEU:CD2	2.17	1.24
1:u:561:TYR:CD1	1:z:157:LEU:HD21	1.70	1.24
1:2:48:LYS:N	1:O:56:GLN:NE2	1.85	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:560:THR:OG1	1:z:212:PHE:CD2	1.77	1.24
1:J:239:ARG:NH2	1:j:73:GLN:HE22	1.29	1.24
1:R:56:GLN:NE2	1:z:48:LYS:N	1.84	1.24
1:X:560:THR:OG1	1:t:212:PHE:CD2	1.77	1.24
1:B:73:GLN:HE22	1:q:239:ARG:NH2	1.29	1.24
1:W:560:THR:OG1	1:b:212:PHE:CD2	1.77	1.24
1:b:73:GLN:HE22	1:s:239:ARG:NH2	1.29	1.24
1:m:552:ILE:HG12	1:z:127:THR:CG2	1.68	1.24
1:o:561:TYR:CD1	1:u:157:LEU:HD21	1.70	1.24
1:t:48:LYS:N	1:w:56:GLN:NE2	1.84	1.24
1:2:560:THR:OG1	1:T:212:PHE:CD2	1.77	1.24
1:3:48:LYS:N	1:X:56:GLN:NE2	1.84	1.24
1:5:212:PHE:CD2	1:F:560:THR:OG1	1.77	1.24
1:A:127:THR:CG2	1:Y:552:ILE:HG12	1.68	1.24
1:C:560:THR:OG1	1:a:212:PHE:CE2	1.77	1.24
1:H:48:LYS:N	1:m:56:GLN:NE2	1.84	1.24
1:K:48:LYS:N	1:o:56:GLN:NE2	1.84	1.24
1:Q:48:LYS:N	1:u:56:GLN:NE2	1.84	1.24
1:Q:56:GLN:NE2	1:l:48:LYS:N	1.84	1.24
1:X:552:ILE:HG12	1:t:127:THR:CG2	1.68	1.24
1:0:73:GLN:HE22	1:V:239:ARG:NH2	1.29	1.23
1:5:239:ARG:NH2	1:d:73:GLN:HE22	1.29	1.23
1:7:552:ILE:HG12	1:N:127:THR:CG2	1.68	1.23
1:A:73:GLN:HE22	1:U:239:ARG:NH2	1.29	1.23
1:C:127:THR:CG2	1:a:552:ILE:HG12	1.68	1.23
1:E:127:THR:CG2	1:k:552:ILE:HG12	1.68	1.23
1:I:48:LYS:N	1:N:56:GLN:NE2	1.85	1.23
1:Q:561:TYR:CD1	1:g:157:LEU:HD21	1.70	1.23
1:U:48:LYS:N	1:V:56:GLN:NE2	1.85	1.23
1:W:552:ILE:HG12	1:b:127:THR:CG2	1.68	1.23
1:q:56:GLN:NE2	1:s:48:LYS:N	1.84	1.23
1:2:127:THR:CG2	1:T:552:ILE:HG12	1.68	1.23
1:A:212:PHE:CD2	1:Y:560:THR:OG1	1.77	1.23
1:C:212:PHE:CD2	1:a:560:THR:OG1	1.77	1.23
1:D:552:ILE:HG12	1:V:127:THR:CG2	1.68	1.23
1:P:560:THR:OG1	1:e:212:PHE:CD2	1.77	1.23
1:b:56:GLN:NE2	1:x:48:LYS:N	1.84	1.23
1:f:552:ILE:HG12	1:q:127:THR:CG2	1.68	1.23
1:g:56:GLN:NE2	1:o:48:LYS:N	1.84	1.23
1:2:56:GLN:NE2	1:h:48:LYS:N	1.85	1.23
1:3:127:THR:CG2	1:x:552:ILE:HG12	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:56:GLN:NE2	1:m:48:LYS:N	1.84	1.23
1:H:127:THR:CG2	1:S:552:ILE:HG12	1.68	1.23
1:L:56:GLN:NE2	1:Z:48:LYS:N	1.84	1.23
1:M:127:THR:CG2	1:p:552:ILE:HG12	1.68	1.23
1:M:560:THR:OG1	1:p:212:PHE:CD2	1.77	1.23
1:R:552:ILE:HG12	1:y:127:THR:CG2	1.68	1.23
1:Y:73:GLN:HE22	1:k:239:ARG:NH2	1.29	1.23
1:1:127:THR:CG2	1:u:552:ILE:HG12	1.68	1.23
1:1:560:THR:OG1	1:u:212:PHE:CD2	1.77	1.23
1:4:395:LYS:HE3	1:z:87:GLU:OE2	1.39	1.23
1:5:395:LYS:HE3	1:d:87:GLU:OE2	1.39	1.23
1:A:56:GLN:NE2	1:S:48:LYS:N	1.84	1.23
1:E:560:THR:OG1	1:k:212:PHE:CE2	1.77	1.23
1:F:56:GLN:NE2	1:y:48:LYS:N	1.84	1.23
1:G:48:LYS:N	1:J:56:GLN:NE2	1.85	1.23
1:J:212:PHE:CD2	1:L:560:THR:OG1	1.77	1.23
1:K:127:THR:CG2	1:h:552:ILE:HG12	1.68	1.23
1:M:552:ILE:HG12	1:p:127:THR:CG2	1.68	1.23
1:W:73:GLN:HE22	1:a:239:ARG:NH2	1.29	1.23
1:Z:127:THR:CG2	1:w:552:ILE:HG12	1.68	1.23
1:d:552:ILE:HG12	1:v:127:THR:CG2	1.68	1.23
1:e:395:LYS:HE3	1:t:87:GLU:OE2	1.39	1.23
1:g:552:ILE:HG12	1:r:127:THR:CG2	1.68	1.23
1:i:87:GLU:OE2	1:y:395:LYS:HE3	1.39	1.23
1:i:552:ILE:HG12	1:n:127:THR:CG2	1.68	1.23
1:5:56:GLN:NE2	1:v:48:LYS:N	1.85	1.23
1:5:127:THR:CG2	1:F:552:ILE:HG12	1.68	1.23
1:6:87:GLU:OE2	1:Z:395:LYS:HE3	1.39	1.23
1:6:552:ILE:HG12	1:c:127:THR:CG2	1.68	1.23
1:B:56:GLN:NE2	1:i:48:LYS:N	1.84	1.23
1:G:127:THR:CG2	1:j:552:ILE:HG12	1.68	1.23
1:I:552:ILE:HG12	1:l:127:THR:CG2	1.68	1.23
1:J:87:GLU:OE2	1:c:395:LYS:HE3	1.39	1.23
1:J:127:THR:CG2	1:L:552:ILE:HG12	1.68	1.23
1:J:395:LYS:HE3	1:j:87:GLU:OE2	1.39	1.23
1:Q:87:GLU:OE2	1:g:395:LYS:HE3	1.39	1.23
1:W:56:GLN:NE2	1:q:48:LYS:N	1.84	1.23
1:X:48:LYS:N	1:e:56:GLN:NE2	1.84	1.23
1:d:48:LYS:N	1:p:56:GLN:NE2	1.84	1.23
1:d:395:LYS:HE3	1:q:87:GLU:OE2	1.39	1.23
1:g:212:PHE:CD2	1:r:560:THR:OG1	1.77	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:87:GLU:OE2	1:u:395:LYS:HE3	1.39	1.23
1:5:87:GLU:OE2	1:n:395:LYS:HE3	1.39	1.22
1:E:212:PHE:CD2	1:k:560:THR:OG1	1.77	1.22
1:R:127:THR:CG2	1:y:552:ILE:HG12	1.68	1.22
1:V:87:GLU:OE2	1:j:395:LYS:HE3	1.39	1.22
1:m:127:THR:CG2	1:z:552:ILE:HG12	1.68	1.22
1:p:239:ARG:NH2	1:v:73:GLN:HE22	1.29	1.22
1:O:56:GLN:NE2	1:6:48:LYS:N	1.84	1.22
1:D:56:GLN:NE2	1:M:48:LYS:N	1.84	1.22
1:G:73:GLN:HE22	1:M:239:ARG:NH2	1.29	1.22
1:I:56:GLN:NE2	1:P:48:LYS:N	1.85	1.22
1:M:56:GLN:NE2	1:j:48:LYS:N	1.84	1.22
1:R:395:LYS:HE3	1:m:87:GLU:OE2	1.39	1.22
1:V:48:LYS:N	1:Y:56:GLN:NE2	1.84	1.22
1:X:127:THR:CG2	1:t:552:ILE:HG12	1.68	1.22
1:Z:552:ILE:HG12	1:w:127:THR:CG2	1.68	1.22
1:f:56:GLN:NE2	1:p:48:LYS:N	1.84	1.22
1:f:127:THR:CG2	1:q:552:ILE:HG12	1.68	1.22
1:6:56:GLN:NE2	1:T:48:LYS:N	1.84	1.22
1:7:48:LYS:N	1:i:56:GLN:NE2	1.84	1.22
1:D:127:THR:CG2	1:V:552:ILE:HG12	1.68	1.22
1:H:552:ILE:HG12	1:S:127:THR:CG2	1.68	1.22
1:O:48:LYS:N	1:h:56:GLN:NE2	1.85	1.22
1:l:56:GLN:NE2	1:u:48:LYS:N	1.84	1.22
1:1:395:LYS:HE3	1:y:87:GLU:OE2	1.39	1.22
1:1:552:ILE:HG12	1:u:127:THR:CG2	1.68	1.22
1:3:552:ILE:HG12	1:x:127:THR:CG2	1.68	1.22
1:4:127:THR:CG2	1:O:552:ILE:HG12	1.68	1.22
1:C:48:LYS:N	1:G:56:GLN:NE2	1.85	1.22
1:D:239:ARG:NH2	1:p:73:GLN:HE22	1.29	1.22
1:J:552:ILE:HG12	1:L:127:THR:CG2	1.68	1.22
1:K:56:GLN:NE2	1:g:48:LYS:N	1.84	1.22
1:M:73:GLN:HE22	1:f:239:ARG:NH2	1.29	1.22
1:X:87:GLU:OE2	1:w:395:LYS:HE3	1.39	1.22
1:g:87:GLU:OE2	1:t:395:LYS:HE3	1.39	1.22
1:u:87:GLU:OE2	1:z:395:LYS:HE3	1.39	1.22
1:O:127:THR:CG2	1:U:552:ILE:HG12	1.68	1.22
1:B:552:ILE:HG12	1:s:127:THR:CG2	1.68	1.22
1:P:552:ILE:HG12	1:e:127:THR:CG2	1.68	1.22
1:d:127:THR:CG2	1:v:552:ILE:HG12	1.68	1.22
1:e:239:ARG:NH2	1:t:73:GLN:HE22	1.29	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:127:THR:CG2	1:r:552:ILE:HG12	1.68	1.22
1:0:87:GLU:OE2	1:V:395:LYS:HE3	1.39	1.21
1:4:239:ARG:NH2	1:z:73:GLN:HE22	1.29	1.21
1:5:552:ILE:HG12	1:F:127:THR:CG2	1.68	1.21
1:7:127:THR:CG2	1:N:552:ILE:HG12	1.68	1.21
1:A:560:THR:OG1	1:Y:212:PHE:CE2	1.77	1.21
1:B:127:THR:CG2	1:s:552:ILE:HG12	1.68	1.21
1:E:48:LYS:N	1:v:56:GLN:NE2	1.85	1.21
1:E:87:GLU:OE2	1:S:395:LYS:HE3	1.39	1.21
1:R:239:ARG:NH2	1:m:73:GLN:HE22	1.29	1.21
1:X:73:GLN:HE22	1:w:239:ARG:NH2	1.29	1.21
1:Z:87:GLU:OE2	1:r:395:LYS:HE3	1.39	1.21
1:0:552:ILE:HG12	1:U:127:THR:CG2	1.68	1.21
1:2:552:ILE:HG12	1:T:127:THR:CG2	1.68	1.21
1:B:87:GLU:OE2	1:q:395:LYS:HE3	1.39	1.21
1:C:87:GLU:OE2	1:x:395:LYS:HE3	1.39	1.21
1:G:552:ILE:HG12	1:j:127:THR:CG2	1.68	1.21
1:i:127:THR:CG2	1:n:552:ILE:HG12	1.68	1.21
1:6:127:THR:CG2	1:c:552:ILE:HG12	1.68	1.21
1:Q:127:THR:CG2	1:o:552:ILE:HG12	1.68	1.21
1:n:48:LYS:N	1:y:56:GLN:NE2	1.84	1.21
1:p:395:LYS:HE3	1:v:87:GLU:OE2	1.39	1.21
1:C:552:ILE:HG12	1:a:127:THR:CG2	1.68	1.21
1:E:552:ILE:HG12	1:k:127:THR:CG2	1.68	1.21
1:Q:552:ILE:HG12	1:o:127:THR:CG2	1.68	1.21
1:Z:56:GLN:NE2	1:c:48:LYS:N	1.84	1.21
1:1:212:PHE:CD2	1:u:560:THR:OG1	1.77	1.20
1:7:239:ARG:NH2	1:s:73:GLN:HE22	1.29	1.20
1:P:127:THR:CG2	1:e:552:ILE:HG12	1.68	1.20
1:Q:73:GLN:HE22	1:g:239:ARG:NH2	1.29	1.20
1:T:239:ARG:NH2	1:U:73:GLN:HE22	1.29	1.20
1:W:127:THR:CG2	1:b:552:ILE:HG12	1.68	1.20
1:o:73:GLN:HE22	1:u:239:ARG:NH2	1.29	1.20
1:1:87:GLU:OE2	1:l:395:LYS:HE3	1.39	1.20
1:4:552:ILE:HG12	1:O:127:THR:CG2	1.68	1.20
1:A:552:ILE:HG12	1:Y:127:THR:CG2	1.68	1.20
1:G:87:GLU:OE2	1:M:395:LYS:HE3	1.39	1.20
1:K:395:LYS:HE3	1:r:87:GLU:OE2	1.39	1.20
1:2:87:GLU:OE2	1:6:395:LYS:HE3	1.39	1.20
1:I:127:THR:CG2	1:l:552:ILE:HG12	1.68	1.20
1:K:552:ILE:HG12	1:h:127:THR:CG2	1.68	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:127:THR:HG22	1:z:552:ILE:HG12	1.21	1.20
1:7:395:LYS:HE3	1:s:87:GLU:OE2	1.39	1.20
1:I:395:LYS:HE3	1:e:87:GLU:OE2	1.39	1.20
1:N:87:GLU:OE2	1:i:395:LYS:HE3	1.39	1.20
1:b:87:GLU:OE2	1:s:395:LYS:HE3	1.39	1.20
1:A:87:GLU:OE2	1:U:395:LYS:HE3	1.39	1.20
1:C:395:LYS:HE3	1:L:87:GLU:OE2	1.39	1.20
1:I:73:GLN:HE22	1:Q:239:ARG:NH2	1.29	1.20
1:3:87:GLU:OE2	1:b:395:LYS:HE3	1.39	1.19
1:D:560:THR:OG1	1:V:212:PHE:CD2	1.77	1.19
1:H:251:ASN:ND2	1:H:384:THR:O	1.76	1.19
1:N:395:LYS:HE3	1:l:87:GLU:OE2	1.39	1.19
1:T:395:LYS:HE3	1:U:87:GLU:OE2	1.39	1.19
1:f:560:THR:OG1	1:q:212:PHE:CD2	1.77	1.19
1:h:73:GLN:HE22	1:o:239:ARG:NH2	1.29	1.19
1:3:251:ASN:ND2	1:3:384:THR:O	1.76	1.19
1:4:87:GLU:OE2	1:h:395:LYS:HE3	1.39	1.19
1:5:251:ASN:ND2	1:5:384:THR:O	1.76	1.19
1:6:212:PHE:CD2	1:c:560:THR:OG1	1.77	1.19
1:A:251:ASN:ND2	1:A:384:THR:O	1.76	1.19
1:X:127:THR:HG22	1:t:552:ILE:HG12	1.21	1.19
1:b:251:ASN:ND2	1:b:384:THR:O	1.76	1.19
1:m:251:ASN:ND2	1:m:384:THR:O	1.76	1.19
1:n:251:ASN:ND2	1:n:384:THR:O	1.76	1.19
1:t:251:ASN:ND2	1:t:384:THR:O	1.76	1.19
1:w:251:ASN:ND2	1:w:384:THR:O	1.76	1.19
1:z:251:ASN:ND2	1:z:384:THR:O	1.76	1.19
1:4:251:ASN:ND2	1:4:384:THR:O	1.76	1.19
1:6:251:ASN:ND2	1:6:384:THR:O	1.76	1.19
1:A:395:LYS:HE3	1:H:87:GLU:OE2	1.39	1.19
1:C:251:ASN:ND2	1:C:384:THR:O	1.76	1.19
1:E:239:ARG:NH2	1:F:73:GLN:HE22	1.29	1.19
1:E:395:LYS:HE3	1:F:87:GLU:OE2	1.39	1.19
1:J:251:ASN:ND2	1:J:384:THR:O	1.76	1.19
1:R:251:ASN:ND2	1:R:384:THR:O	1.76	1.19
1:S:251:ASN:ND2	1:S:384:THR:O	1.76	1.19
1:X:251:ASN:ND2	1:X:384:THR:O	1.76	1.19
1:c:251:ASN:ND2	1:c:384:THR:O	1.76	1.19
1:e:251:ASN:ND2	1:e:384:THR:O	1.76	1.19
1:g:127:THR:HG22	1:r:552:ILE:HG12	1.21	1.19
1:i:251:ASN:ND2	1:i:384:THR:O	1.76	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:251:ASN:ND2	1:x:384:THR:O	1.76	1.19
1:2:395:LYS:HE3	1:K:87:GLU:OE2	1.39	1.19
1:E:251:ASN:ND2	1:E:384:THR:O	1.76	1.19
1:W:251:ASN:ND2	1:W:384:THR:O	1.76	1.19
1:C:239:ARG:NH2	1:L:73:GLN:HE22	1.29	1.19
1:F:395:LYS:HE3	1:R:87:GLU:OE2	1.39	1.19
1:N:239:ARG:NH2	1:I:73:GLN:HE22	1.29	1.19
1:Y:251:ASN:ND2	1:Y:384:THR:O	1.76	1.19
1:Z:251:ASN:ND2	1:Z:384:THR:O	1.76	1.19
1:d:251:ASN:ND2	1:d:384:THR:O	1.76	1.19
1:g:251:ASN:ND2	1:g:384:THR:O	1.76	1.19
1:j:251:ASN:ND2	1:j:384:THR:O	1.76	1.19
1:u:73:GLN:HE22	1:z:239:ARG:NH2	1.29	1.19
1:u:251:ASN:ND2	1:u:384:THR:O	1.76	1.19
1:y:251:ASN:ND2	1:y:384:THR:O	1.76	1.19
1:1:251:ASN:ND2	1:1:384:THR:O	1.76	1.18
1:1:552:ILE:HG12	1:u:127:THR:HG22	1.21	1.18
1:2:239:ARG:NH2	1:K:73:GLN:HE22	1.29	1.18
1:E:73:GLN:HE22	1:S:239:ARG:NH2	1.29	1.18
1:G:251:ASN:ND2	1:G:384:THR:O	1.76	1.18
1:K:251:ASN:ND2	1:K:384:THR:O	1.76	1.18
1:R:212:PHE:CD2	1:y:560:THR:OG1	1.77	1.18
1:l:251:ASN:ND2	1:l:384:THR:O	1.76	1.18
1:v:251:ASN:ND2	1:v:384:THR:O	1.76	1.18
1:L:395:LYS:HE3	1:w:87:GLU:OE2	1.39	1.18
1:Z:560:THR:OG1	1:w:212:PHE:CD2	1.77	1.18
1:h:251:ASN:ND2	1:h:384:THR:O	1.76	1.18
1:r:251:ASN:ND2	1:r:384:THR:O	1.76	1.18
1:3:395:LYS:HE3	1:P:87:GLU:OE2	1.39	1.18
1:I:251:ASN:ND2	1:I:384:THR:O	1.76	1.18
1:O:395:LYS:HE3	1:T:87:GLU:OE2	1.39	1.18
1:T:251:ASN:ND2	1:T:384:THR:O	1.76	1.18
1:W:87:GLU:OE2	1:a:395:LYS:HE3	1.39	1.18
1:q:251:ASN:ND2	1:q:384:THR:O	1.76	1.18
1:7:87:GLU:OE2	1:P:395:LYS:HE3	1.39	1.18
1:7:127:THR:HG22	1:N:552:ILE:HG12	1.21	1.18
1:7:251:ASN:ND2	1:7:384:THR:O	1.76	1.18
1:B:395:LYS:HE3	1:n:87:GLU:OE2	1.39	1.18
1:M:212:PHE:CD2	1:p:560:THR:OG1	1.77	1.18
1:V:251:ASN:ND2	1:V:384:THR:O	1.76	1.18
1:Y:87:GLU:OE2	1:k:395:LYS:HE3	1.39	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:73:GLN:HE22	1:t:239:ARG:NH2	1.29	1.18
1:o:251:ASN:ND2	1:o:384:THR:O	1.76	1.18
1:0:251:ASN:ND2	1:0:384:THR:O	1.76	1.18
1:1:127:THR:CB	1:u:552:ILE:HG12	1.74	1.18
1:C:73:GLN:HE22	1:x:239:ARG:NH2	1.29	1.18
1:H:395:LYS:HE3	1:O:87:GLU:OE2	1.39	1.18
1:Q:251:ASN:ND2	1:Q:384:THR:O	1.76	1.18
1:X:239:ARG:NH2	1:x:73:GLN:HE22	1.29	1.18
1:0:395:LYS:HE3	1:c:87:GLU:OE2	1.39	1.17
1:D:251:ASN:ND2	1:D:384:THR:O	1.76	1.17
1:I:87:GLU:OE2	1:Q:395:LYS:HE3	1.39	1.17
1:N:73:GLN:HE22	1:i:239:ARG:NH2	1.29	1.17
1:U:251:ASN:ND2	1:U:384:THR:O	1.76	1.17
1:g:552:ILE:HG12	1:r:127:THR:CB	1.74	1.17
1:s:251:ASN:ND2	1:s:384:THR:O	1.76	1.17
1:2:251:ASN:ND2	1:2:384:THR:O	1.76	1.17
1:6:127:THR:CB	1:c:552:ILE:HG12	1.74	1.17
1:B:251:ASN:ND2	1:B:384:THR:O	1.76	1.17
1:N:251:ASN:ND2	1:N:384:THR:O	1.76	1.17
1:f:251:ASN:ND2	1:f:384:THR:O	1.76	1.17
1:h:87:GLU:OE2	1:o:395:LYS:HE3	1.39	1.17
1:i:127:THR:CB	1:n:552:ILE:HG12	1.74	1.17
1:2:552:ILE:HG12	1:T:127:THR:HG22	1.21	1.17
1:2:552:ILE:HG12	1:T:127:THR:CB	1.74	1.17
1:7:127:THR:CB	1:N:552:ILE:HG12	1.74	1.17
1:R:552:ILE:HG12	1:y:127:THR:CB	1.74	1.17
1:S:73:GLN:HE22	1:m:239:ARG:NH2	1.29	1.17
1:W:395:LYS:HE3	1:f:87:GLU:OE2	1.39	1.17
1:2:73:GLN:HE22	1:6:239:ARG:NH2	1.29	1.17
1:E:127:THR:CB	1:k:552:ILE:HG12	1.74	1.17
1:F:251:ASN:ND2	1:F:384:THR:O	1.76	1.17
1:L:251:ASN:ND2	1:L:384:THR:O	1.76	1.17
1:X:395:LYS:HE3	1:x:87:GLU:OE2	1.39	1.17
1:Z:127:THR:CB	1:w:552:ILE:HG12	1.74	1.17
1:k:87:GLU:OE2	1:v:395:LYS:HE3	1.39	1.17
1:4:127:THR:HG22	1:O:552:ILE:HG12	1.21	1.17
1:B:127:THR:CB	1:s:552:ILE:HG12	1.74	1.17
1:C:127:THR:CB	1:a:552:ILE:HG12	1.74	1.17
1:D:87:GLU:OE2	1:Y:395:LYS:HE3	1.39	1.17
1:I:552:ILE:HG12	1:l:127:THR:CB	1.74	1.17
1:K:127:THR:CB	1:h:552:ILE:HG12	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:251:ASN:ND2	1:O:384:THR:O	1.76	1.17
1:P:552:ILE:HG12	1:e:127:THR:HG22	1.21	1.17
1:i:552:ILE:HG12	1:n:127:THR:CB	1.74	1.17
1:O:127:THR:CB	1:U:552:ILE:HG12	1.74	1.16
1:6:552:ILE:HG12	1:c:127:THR:CB	1.74	1.16
1:7:552:ILE:HG12	1:N:127:THR:CB	1.74	1.16
1:G:552:ILE:HG12	1:j:127:THR:CB	1.74	1.16
1:P:251:ASN:ND2	1:P:384:THR:O	1.76	1.16
1:S:87:GLU:OE2	1:m:395:LYS:HE3	1.39	1.16
1:X:127:THR:CB	1:t:552:ILE:HG12	1.74	1.16
1:Z:73:GLN:HE22	1:r:239:ARG:NH2	1.29	1.16
1:a:251:ASN:ND2	1:a:384:THR:O	1.76	1.16
1:d:127:THR:CB	1:v:552:ILE:HG12	1.74	1.16
1:2:127:THR:CB	1:T:552:ILE:HG12	1.74	1.16
1:A:127:THR:CB	1:Y:552:ILE:HG12	1.74	1.16
1:G:395:LYS:HE3	1:a:87:GLU:OE2	1.39	1.16
1:M:87:GLU:OE2	1:f:395:LYS:HE3	1.39	1.16
1:P:127:THR:CB	1:e:552:ILE:HG12	1.74	1.16
1:X:552:ILE:HG12	1:t:127:THR:CB	1.74	1.16
1:X:552:ILE:HG12	1:t:127:THR:HG22	1.21	1.16
1:k:251:ASN:ND2	1:k:384:THR:O	1.76	1.16
1:m:127:THR:CB	1:z:552:ILE:HG12	1.74	1.16
1:m:552:ILE:HG12	1:z:127:THR:CB	1.74	1.16
1:m:552:ILE:HG12	1:z:127:THR:HG22	1.21	1.16
1:4:552:ILE:HG12	1:O:127:THR:CB	1.74	1.16
1:A:552:ILE:HG12	1:Y:127:THR:CB	1.74	1.16
1:C:552:ILE:HG12	1:a:127:THR:CB	1.74	1.16
1:D:395:LYS:HE3	1:p:87:GLU:OE2	1.39	1.16
1:Q:127:THR:CB	1:o:552:ILE:HG12	1.74	1.16
1:Q:552:ILE:HG12	1:o:127:THR:CB	1.74	1.16
1:W:127:THR:CB	1:b:552:ILE:HG12	1.74	1.16
1:W:552:ILE:HG12	1:b:127:THR:CB	1.74	1.16
1:1:552:ILE:HG12	1:u:127:THR:CB	1.74	1.16
1:4:127:THR:CB	1:O:552:ILE:HG12	1.74	1.16
1:5:127:THR:CB	1:F:552:ILE:HG12	1.74	1.16
1:E:552:ILE:HG12	1:k:127:THR:CB	1.74	1.16
1:I:127:THR:CB	1:l:552:ILE:HG12	1.74	1.16
1:K:552:ILE:HG12	1:h:127:THR:CB	1.74	1.16
1:O:239:ARG:NH2	1:T:73:GLN:HE22	1.29	1.16
1:P:552:ILE:HG12	1:e:127:THR:CB	1.74	1.16
1:1:239:ARG:NH2	1:y:73:GLN:HE22	1.29	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:552:ILE:HG12	1:F:127:THR:CB	1.74	1.16
1:7:73:GLN:HE22	1:P:239:ARG:NH2	1.29	1.16
1:D:552:ILE:HG12	1:V:127:THR:CB	1.74	1.16
1:G:552:ILE:HG12	1:j:127:THR:HG22	1.21	1.16
1:J:127:THR:CB	1:L:552:ILE:HG12	1.74	1.16
1:M:251:ASN:ND2	1:M:384:THR:O	1.76	1.16
1:M:552:ILE:HG12	1:p:127:THR:CB	1.74	1.16
1:f:552:ILE:HG12	1:q:127:THR:CB	1.74	1.16
1:g:127:THR:CB	1:r:552:ILE:HG12	1.74	1.16
1:g:560:THR:OG1	1:r:212:PHE:CE2	1.77	1.16
1:3:552:ILE:HG12	1:x:127:THR:CB	1.74	1.15
1:J:552:ILE:HG12	1:L:127:THR:CB	1.74	1.15
1:Q:552:ILE:HG12	1:o:127:THR:HG22	1.21	1.15
1:R:127:THR:CB	1:y:552:ILE:HG12	1.74	1.15
1:d:127:THR:HG22	1:v:552:ILE:HG12	1.21	1.15
1:p:251:ASN:ND2	1:p:384:THR:O	1.76	1.15
1:O:552:ILE:HG12	1:U:127:THR:CB	1.74	1.15
1:B:552:ILE:HG12	1:s:127:THR:CB	1.74	1.15
1:H:552:ILE:HG12	1:S:127:THR:CB	1.74	1.15
1:M:127:THR:CB	1:p:552:ILE:HG12	1.74	1.15
1:R:552:ILE:HG12	1:y:127:THR:HG22	1.21	1.15
1:Z:552:ILE:HG12	1:w:127:THR:CB	1.74	1.15
1:G:127:THR:CB	1:j:552:ILE:HG12	1.74	1.15
1:H:127:THR:CB	1:S:552:ILE:HG12	1.74	1.15
1:H:127:THR:HG22	1:S:552:ILE:HG12	1.21	1.15
1:I:239:ARG:NH2	1:e:73:GLN:HE22	1.29	1.15
1:Q:127:THR:HG22	1:o:552:ILE:HG12	1.21	1.15
1:3:127:THR:CB	1:x:552:ILE:HG12	1.74	1.15
1:3:127:THR:HG22	1:x:552:ILE:HG12	1.21	1.15
1:E:552:ILE:HG12	1:k:127:THR:HG22	1.21	1.15
1:d:552:ILE:HG12	1:v:127:THR:CB	1.74	1.15
1:f:127:THR:CB	1:q:552:ILE:HG12	1.74	1.15
1:D:127:THR:CB	1:V:552:ILE:HG12	1.74	1.15
1:I:127:THR:HG22	1:l:552:ILE:HG12	1.21	1.15
1:B:127:THR:HG22	1:s:552:ILE:HG12	1.21	1.14
1:O:127:THR:HG22	1:U:552:ILE:HG12	1.21	1.14
1:1:125:THR:HG21	1:u:550:SER:O	1.48	1.14
1:3:94:LYS:N	1:b:242:SER:HB3	1.63	1.14
1:4:73:GLN:HE22	1:h:239:ARG:NH2	1.29	1.14
1:6:125:THR:HG21	1:c:550:SER:O	1.48	1.14
1:A:242:SER:HB3	1:H:94:LYS:N	1.63	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:125:THR:HG21	1:a:550:SER:O	1.48	1.14
1:K:552:ILE:HG12	1:h:127:THR:HG22	1.21	1.14
1:W:94:LYS:N	1:a:242:SER:HB3	1.63	1.14
1:Y:94:LYS:N	1:k:242:SER:HB3	1.63	1.14
1:g:550:SER:O	1:r:125:THR:HG21	1.48	1.14
1:i:125:THR:HG21	1:n:550:SER:O	1.48	1.14
1:O:56:GLN:OE1	1:6:48:LYS:C	1.91	1.14
1:2:56:GLN:OE1	1:h:48:LYS:C	1.91	1.14
1:B:56:GLN:OE1	1:i:48:LYS:C	1.91	1.14
1:E:125:THR:HG21	1:k:550:SER:O	1.48	1.14
1:I:48:LYS:C	1:N:56:GLN:OE1	1.91	1.14
1:N:94:LYS:N	1:i:242:SER:HB3	1.63	1.14
1:X:550:SER:O	1:t:125:THR:HG21	1.48	1.14
1:f:552:ILE:HG12	1:q:127:THR:HG22	1.21	1.14
1:2:94:LYS:N	1:6:242:SER:HB3	1.63	1.14
1:5:550:SER:O	1:F:125:THR:HG21	1.48	1.14
1:F:56:GLN:OE1	1:y:48:LYS:C	1.91	1.14
1:J:550:SER:O	1:L:125:THR:HG21	1.48	1.14
1:L:56:GLN:OE1	1:Z:48:LYS:C	1.91	1.14
1:a:48:LYS:C	1:x:56:GLN:OE1	1.91	1.14
1:b:94:LYS:N	1:s:242:SER:HB3	1.63	1.14
1:g:125:THR:HG21	1:r:550:SER:O	1.48	1.14
1:m:550:SER:O	1:z:125:THR:HG21	1.48	1.14
1:r:48:LYS:C	1:t:56:GLN:OE1	1.91	1.14
1:1:48:LYS:C	1:z:56:GLN:OE1	1.91	1.14
1:1:94:LYS:N	1:l:242:SER:HB3	1.63	1.14
1:1:550:SER:O	1:u:125:THR:HG21	1.48	1.14
1:6:56:GLN:OE1	1:T:48:LYS:C	1.91	1.14
1:7:48:LYS:C	1:i:56:GLN:OE1	1.91	1.14
1:A:94:LYS:N	1:U:242:SER:HB3	1.63	1.14
1:C:552:ILE:HG12	1:a:127:THR:HG22	1.21	1.14
1:D:48:LYS:C	1:j:56:GLN:OE1	1.91	1.14
1:K:48:LYS:C	1:o:56:GLN:OE1	1.91	1.14
1:K:56:GLN:OE1	1:g:48:LYS:C	1.91	1.14
1:N:242:SER:HB3	1:l:94:LYS:N	1.63	1.14
1:Q:56:GLN:OE1	1:l:48:LYS:C	1.91	1.14
1:R:56:GLN:OE1	1:z:48:LYS:C	1.91	1.14
1:S:56:GLN:OE1	1:k:48:LYS:C	1.91	1.14
1:d:56:GLN:OE1	1:f:48:LYS:C	1.91	1.14
1:l:56:GLN:OE1	1:u:48:LYS:C	1.91	1.14
1:t:48:LYS:C	1:w:56:GLN:OE1	1.91	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:52:ILE:N	1:w:52:ILE:O	1.81	1.14
1:2:242:SER:HB3	1:K:94:LYS:N	1.63	1.13
1:2:550:SER:O	1:T:125:THR:HG21	1.48	1.13
1:3:48:LYS:C	1:X:56:GLN:OE1	1.91	1.13
1:4:242:SER:HB3	1:z:94:LYS:N	1.63	1.13
1:5:94:LYS:N	1:n:242:SER:HB3	1.63	1.13
1:7:125:THR:HG21	1:N:550:SER:O	1.48	1.13
1:F:48:LYS:C	1:n:56:GLN:OE1	1.91	1.13
1:H:48:LYS:C	1:m:56:GLN:OE1	1.91	1.13
1:H:125:THR:HG21	1:S:550:SER:O	1.48	1.13
1:I:94:LYS:N	1:Q:242:SER:HB3	1.63	1.13
1:K:242:SER:HB3	1:r:94:LYS:N	1.63	1.13
1:L:48:LYS:C	1:c:56:GLN:OE1	1.91	1.13
1:L:52:ILE:O	1:Z:52:ILE:N	1.82	1.13
1:M:127:THR:HG22	1:p:552:ILE:HG12	1.21	1.13
1:Q:48:LYS:C	1:u:56:GLN:OE1	1.91	1.13
1:R:52:ILE:O	1:z:52:ILE:N	1.82	1.13
1:R:242:SER:HB3	1:m:94:LYS:N	1.63	1.13
1:X:242:SER:HB3	1:x:94:LYS:N	1.63	1.13
1:e:242:SER:HB3	1:t:94:LYS:N	1.63	1.13
1:g:56:GLN:OE1	1:o:48:LYS:C	1.91	1.13
1:1:53:VAL:HA	1:R:50:LEU:O	1.49	1.13
1:1:242:SER:HB3	1:y:94:LYS:N	1.63	1.13
1:5:52:ILE:N	1:E:52:ILE:O	1.82	1.13
1:5:52:ILE:O	1:v:52:ILE:N	1.82	1.13
1:6:94:LYS:N	1:Z:242:SER:HB3	1.63	1.13
1:A:48:LYS:C	1:k:56:GLN:OE1	1.91	1.13
1:D:552:ILE:HG12	1:V:127:THR:HG22	1.21	1.13
1:F:52:ILE:O	1:y:52:ILE:N	1.82	1.13
1:J:94:LYS:N	1:c:242:SER:HB3	1.63	1.13
1:K:52:ILE:O	1:g:52:ILE:N	1.82	1.13
1:P:127:THR:HG22	1:e:552:ILE:HG12	1.21	1.13
1:Q:52:ILE:N	1:u:52:ILE:O	1.82	1.13
1:R:125:THR:HG21	1:y:550:SER:O	1.48	1.13
1:R:550:SER:O	1:y:125:THR:HG21	1.48	1.13
1:S:94:LYS:N	1:m:242:SER:HB3	1.63	1.13
1:U:48:LYS:C	1:V:56:GLN:OE1	1.91	1.13
1:W:239:ARG:NH2	1:f:73:GLN:HE22	1.29	1.13
1:X:94:LYS:N	1:w:242:SER:HB3	1.63	1.13
1:Z:52:ILE:O	1:c:52:ILE:N	1.82	1.13
1:Z:94:LYS:N	1:r:242:SER:HB3	1.63	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:125:THR:HG21	1:w:550:SER:O	1.48	1.13
1:Z:550:SER:O	1:w:125:THR:HG21	1.48	1.13
1:g:52:ILE:O	1:o:52:ILE:N	1.82	1.13
1:h:94:LYS:N	1:o:242:SER:HB3	1.63	1.13
1:i:94:LYS:N	1:y:242:SER:HB3	1.63	1.13
1:l:52:ILE:O	1:u:52:ILE:N	1.82	1.13
1:q:56:GLN:OE1	1:s:48:LYS:C	1.91	1.13
1:r:53:VAL:HA	1:w:50:LEU:O	1.49	1.13
1:1:50:LEU:O	1:z:53:VAL:HA	1.49	1.13
1:1:52:ILE:O	1:R:52:ILE:N	1.82	1.13
1:2:48:LYS:C	1:O:56:GLN:OE1	1.91	1.13
1:3:125:THR:HG21	1:x:550:SER:O	1.48	1.13
1:3:242:SER:HB3	1:P:94:LYS:N	1.63	1.13
1:4:52:ILE:O	1:m:52:ILE:N	1.82	1.13
1:C:52:ILE:O	1:J:52:ILE:N	1.82	1.13
1:G:52:ILE:N	1:J:52:ILE:O	1.82	1.13
1:K:53:VAL:HA	1:g:50:LEU:O	1.49	1.13
1:V:48:LYS:C	1:Y:56:GLN:OE1	1.91	1.13
1:W:56:GLN:OE1	1:q:48:LYS:C	1.91	1.13
1:X:52:ILE:N	1:e:52:ILE:O	1.82	1.13
1:a:56:GLN:OE1	1:b:48:LYS:C	1.91	1.13
1:l:53:VAL:HA	1:u:50:LEU:O	1.49	1.13
1:n:52:ILE:N	1:y:52:ILE:O	1.82	1.13
1:r:50:LEU:O	1:t:53:VAL:HA	1.49	1.13
1:r:52:ILE:O	1:w:52:ILE:N	1.82	1.13
1:r:52:ILE:N	1:t:52:ILE:O	1.82	1.13
1:0:48:LYS:C	1:T:56:GLN:OE1	1.91	1.13
1:1:52:ILE:N	1:z:52:ILE:O	1.82	1.13
1:2:52:ILE:N	1:O:52:ILE:O	1.82	1.13
1:3:52:ILE:N	1:X:52:ILE:O	1.82	1.13
1:4:56:GLN:OE1	1:m:48:LYS:C	1.91	1.13
1:4:550:SER:O	1:O:125:THR:HG21	1.48	1.13
1:5:48:LYS:C	1:E:56:GLN:OE1	1.91	1.13
1:5:125:THR:HG21	1:F:550:SER:O	1.48	1.13
1:C:48:LYS:C	1:G:56:GLN:OE1	1.91	1.13
1:C:56:GLN:OE1	1:J:48:LYS:C	1.91	1.13
1:D:73:GLN:HE22	1:Y:239:ARG:NH2	1.29	1.13
1:E:48:LYS:C	1:v:56:GLN:OE1	1.91	1.13
1:H:52:ILE:N	1:m:52:ILE:O	1.82	1.13
1:H:242:SER:HB3	1:O:94:LYS:N	1.63	1.13
1:J:125:THR:HG21	1:L:550:SER:O	1.48	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:53:VAL:HA	1:j:50:LEU:O	1.49	1.13
1:N:48:LYS:C	1:P:56:GLN:OE1	1.91	1.13
1:N:52:ILE:N	1:P:52:ILE:O	1.82	1.13
1:P:125:THR:HG21	1:e:550:SER:O	1.48	1.13
1:Z:56:GLN:OE1	1:c:48:LYS:C	1.91	1.13
1:d:50:LEU:O	1:p:53:VAL:HA	1.49	1.13
1:d:552:ILE:HG12	1:v:127:THR:HG22	1.21	1.13
1:k:94:LYS:N	1:v:242:SER:HB3	1.63	1.13
1:n:48:LYS:C	1:y:56:GLN:OE1	1.91	1.13
1:3:53:VAL:HA	1:e:50:LEU:O	1.49	1.12
1:4:552:ILE:HG12	1:O:127:THR:HG22	1.21	1.13
1:7:56:GLN:OE1	1:B:48:LYS:C	1.91	1.13
1:C:242:SER:HB3	1:L:94:LYS:N	1.63	1.12
1:D:94:LYS:N	1:Y:242:SER:HB3	1.63	1.12
1:E:242:SER:HB3	1:F:94:LYS:N	1.63	1.12
1:G:242:SER:HB3	1:a:94:LYS:N	1.63	1.12
1:M:552:ILE:HG12	1:p:127:THR:HG22	1.21	1.13
1:I:52:ILE:O	1:P:52:ILE:N	1.82	1.12
1:O:52:ILE:N	1:h:52:ILE:O	1.82	1.12
1:Q:94:LYS:N	1:g:242:SER:HB3	1.63	1.12
1:V:52:ILE:N	1:Y:52:ILE:O	1.82	1.12
1:f:52:ILE:O	1:p:52:ILE:N	1.82	1.12
1:n:50:LEU:O	1:y:53:VAL:HA	1.49	1.12
1:o:94:LYS:N	1:u:242:SER:HB3	1.63	1.13
1:W:52:ILE:O	1:q:52:ILE:N	1.82	1.12
1:W:242:SER:HB3	1:f:94:LYS:N	1.63	1.12
1:W:550:SER:O	1:b:125:THR:HG21	1.48	1.12
1:X:48:LYS:C	1:e:56:GLN:OE1	1.91	1.12
1:Z:53:VAL:HA	1:c:50:LEU:O	1.49	1.12
1:4:50:LEU:O	1:H:53:VAL:HA	1.49	1.12
1:A:56:GLN:OE1	1:S:48:LYS:C	1.91	1.12
1:A:125:THR:HG21	1:Y:550:SER:O	1.48	1.12
1:D:52:ILE:O	1:M:52:ILE:N	1.82	1.12
1:D:127:THR:HG22	1:V:552:ILE:HG12	1.21	1.12
1:G:94:LYS:N	1:M:242:SER:HB3	1.63	1.12
1:H:550:SER:O	1:S:125:THR:HG21	1.48	1.12
1:I:56:GLN:OE1	1:P:48:LYS:C	1.91	1.12
1:I:125:THR:HG21	1:l:550:SER:O	1.48	1.12
1:M:56:GLN:OE1	1:j:48:LYS:C	1.91	1.12
1:O:48:LYS:C	1:h:56:GLN:OE1	1.91	1.12
1:S:52:ILE:O	1:k:52:ILE:N	1.82	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:53:VAL:HA	1:k:50:LEU:O	1.49	1.12
1:W:52:ILE:N	1:s:52:ILE:O	1.82	1.12
1:a:52:ILE:N	1:x:52:ILE:O	1.82	1.12
1:b:56:GLN:OE1	1:x:48:LYS:C	1.91	1.12
1:d:48:LYS:C	1:p:56:GLN:OE1	1.91	1.12
1:d:242:SER:HB3	1:q:94:LYS:N	1.63	1.12
1:f:53:VAL:HA	1:p:50:LEU:O	1.49	1.12
1:f:550:SER:O	1:q:125:THR:HG21	1.48	1.12
1:p:242:SER:HB3	1:v:94:LYS:N	1.63	1.12
1:0:53:VAL:HA	1:6:50:LEU:O	1.49	1.12
1:3:550:SER:O	1:x:125:THR:HG21	1.48	1.12
1:5:56:GLN:OE1	1:v:48:LYS:C	1.91	1.12
1:5:125:THR:HA	1:F:551:THR:HG22	1.32	1.12
1:A:550:SER:O	1:Y:125:THR:HG21	1.48	1.12
1:B:53:VAL:HA	1:i:50:LEU:O	1.49	1.12
1:D:53:VAL:HA	1:M:50:LEU:O	1.49	1.12
1:D:550:SER:O	1:V:125:THR:HG21	1.48	1.12
1:F:52:ILE:N	1:n:52:ILE:O	1.82	1.12
1:G:127:THR:HG22	1:j:552:ILE:HG12	1.21	1.12
1:G:239:ARG:NH2	1:a:73:GLN:HE22	1.29	1.12
1:G:550:SER:O	1:j:125:THR:HG21	1.48	1.12
1:K:550:SER:O	1:h:125:THR:HG21	1.48	1.12
1:L:52:ILE:N	1:c:52:ILE:O	1.82	1.12
1:U:52:ILE:O	1:Y:52:ILE:N	1.82	1.12
1:V:94:LYS:N	1:j:242:SER:HB3	1.63	1.12
1:W:125:THR:HG21	1:b:550:SER:O	1.48	1.12
1:b:52:ILE:O	1:x:52:ILE:N	1.82	1.12
1:d:125:THR:HG21	1:v:550:SER:O	1.48	1.12
1:g:552:ILE:HG12	1:r:127:THR:HG22	1.21	1.12
1:0:52:ILE:N	1:T:52:ILE:O	1.82	1.12
1:0:94:LYS:N	1:V:242:SER:HB3	1.63	1.12
1:1:56:GLN:OE1	1:R:48:LYS:C	1.91	1.12
1:2:551:THR:HG22	1:T:125:THR:HA	1.32	1.12
1:4:48:LYS:C	1:H:56:GLN:OE1	1.91	1.12
1:6:53:VAL:HA	1:T:50:LEU:O	1.49	1.12
1:7:125:THR:HA	1:N:551:THR:HG22	1.32	1.12
1:A:52:ILE:O	1:S:52:ILE:N	1.82	1.12
1:B:242:SER:HB3	1:n:94:LYS:N	1.63	1.12
1:G:48:LYS:C	1:J:56:GLN:OE1	1.91	1.12
1:J:125:THR:HA	1:L:551:THR:HG22	1.32	1.12
1:M:550:SER:O	1:p:125:THR:HG21	1.48	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:50:LEU:O	1:Y:53:VAL:HA	1.49	1.12
1:W:53:VAL:HA	1:q:50:LEU:O	1.49	1.12
1:a:50:LEU:O	1:x:53:VAL:HA	1.49	1.12
1:d:52:ILE:N	1:p:52:ILE:O	1.82	1.12
1:d:53:VAL:HA	1:f:50:LEU:O	1.49	1.12
1:r:56:GLN:OE1	1:w:48:LYS:C	1.91	1.12
1:0:242:SER:HB3	1:c:94:LYS:N	1.63	1.12
1:3:56:GLN:OE1	1:e:48:LYS:C	1.91	1.12
1:6:551:THR:HG22	1:c:125:THR:HA	1.32	1.12
1:7:50:LEU:O	1:i:53:VAL:HA	1.49	1.12
1:7:52:ILE:O	1:B:52:ILE:N	1.82	1.12
1:A:53:VAL:HA	1:S:50:LEU:O	1.49	1.12
1:D:242:SER:HB3	1:p:94:LYS:N	1.63	1.12
1:E:125:THR:HA	1:k:551:THR:HG22	1.32	1.12
1:E:551:THR:HG22	1:k:125:THR:HA	1.32	1.12
1:M:52:ILE:O	1:j:52:ILE:N	1.82	1.12
1:M:125:THR:HG21	1:p:550:SER:O	1.48	1.12
1:U:50:LEU:O	1:V:53:VAL:HA	1.49	1.12
1:b:53:VAL:HA	1:x:50:LEU:O	1.49	1.12
1:g:94:LYS:N	1:t:242:SER:HB3	1.63	1.12
1:i:551:THR:HG22	1:n:125:THR:HA	1.32	1.12
1:1:127:THR:HG22	1:u:552:ILE:HG12	1.21	1.11
1:3:52:ILE:O	1:e:52:ILE:N	1.82	1.11
1:6:52:ILE:O	1:T:52:ILE:N	1.82	1.11
1:6:550:SER:O	1:c:125:THR:HG21	1.48	1.11
1:7:550:SER:O	1:N:125:THR:HG21	1.48	1.11
1:A:52:ILE:N	1:k:52:ILE:O	1.82	1.11
1:B:94:LYS:N	1:q:242:SER:HB3	1.63	1.11
1:C:551:THR:HG22	1:a:125:THR:HA	1.32	1.11
1:D:50:LEU:O	1:j:53:VAL:HA	1.49	1.11
1:F:239:ARG:NH2	1:R:73:GLN:HE22	1.29	1.11
1:I:550:SER:O	1:l:125:THR:HG21	1.48	1.11
1:L:239:ARG:NH2	1:w:73:GLN:HE22	1.29	1.11
1:P:551:THR:HG22	1:e:125:THR:HA	1.32	1.11
1:Q:50:LEU:O	1:u:53:VAL:HA	1.49	1.11
1:U:56:GLN:OE1	1:Y:48:LYS:C	1.91	1.11
1:X:50:LEU:O	1:e:53:VAL:HA	1.49	1.11
1:g:53:VAL:HA	1:o:50:LEU:O	1.49	1.11
1:g:125:THR:HA	1:r:551:THR:HG22	1.32	1.11
1:q:53:VAL:HA	1:s:50:LEU:O	1.49	1.11
1:u:94:LYS:N	1:z:242:SER:HB3	1.63	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:551:THR:HG22	1:u:125:THR:HA	1.32	1.11
1:2:53:VAL:HA	1:h:50:LEU:O	1.49	1.11
1:3:551:THR:HG22	1:x:125:THR:HA	1.32	1.11
1:4:52:ILE:N	1:H:52:ILE:O	1.82	1.11
1:4:94:LYS:N	1:h:242:SER:HB3	1.63	1.11
1:4:125:THR:HA	1:O:551:THR:HG22	1.32	1.11
1:5:50:LEU:O	1:E:53:VAL:HA	1.49	1.11
1:C:94:LYS:N	1:x:242:SER:HB3	1.63	1.11
1:C:125:THR:HA	1:a:551:THR:HG22	1.32	1.11
1:C:550:SER:O	1:a:125:THR:HG21	1.48	1.11
1:D:56:GLN:OE1	1:M:48:LYS:C	1.91	1.11
1:E:52:ILE:N	1:v:52:ILE:O	1.82	1.11
1:E:94:LYS:N	1:S:242:SER:HB3	1.63	1.11
1:E:550:SER:O	1:k:125:THR:HG21	1.48	1.11
1:H:551:THR:HG22	1:S:125:THR:HA	1.32	1.11
1:J:242:SER:HB3	1:j:94:LYS:N	1.63	1.11
1:K:52:ILE:N	1:o:52:ILE:O	1.82	1.11
1:L:50:LEU:O	1:c:53:VAL:HA	1.49	1.11
1:L:53:VAL:HA	1:Z:50:LEU:O	1.49	1.11
1:L:242:SER:HB3	1:w:94:LYS:N	1.63	1.11
1:M:94:LYS:N	1:f:242:SER:HB3	1.63	1.11
1:R:551:THR:HG22	1:y:125:THR:HA	1.32	1.11
1:W:48:LYS:C	1:s:56:GLN:OE1	1.91	1.11
1:a:52:ILE:O	1:b:52:ILE:N	1.82	1.11
1:f:56:GLN:OE1	1:p:48:LYS:C	1.91	1.11
1:i:550:SER:O	1:n:125:THR:HG21	1.48	1.11
1:O:50:LEU:O	1:T:53:VAL:HA	1.49	1.11
1:2:125:THR:HG21	1:T:550:SER:O	1.48	1.11
1:4:53:VAL:HA	1:m:50:LEU:O	1.49	1.11
1:5:242:SER:HB3	1:d:94:LYS:N	1.63	1.11
1:7:52:ILE:N	1:i:52:ILE:O	1.82	1.11
1:7:53:VAL:HA	1:B:50:LEU:O	1.49	1.11
1:C:52:ILE:N	1:G:52:ILE:O	1.82	1.11
1:C:53:VAL:HA	1:J:50:LEU:O	1.49	1.11
1:F:50:LEU:O	1:n:53:VAL:HA	1.49	1.11
1:F:53:VAL:HA	1:y:50:LEU:O	1.49	1.11
1:F:242:SER:HB3	1:R:94:LYS:N	1.63	1.11
1:H:50:LEU:O	1:m:53:VAL:HA	1.49	1.11
1:I:50:LEU:O	1:N:53:VAL:HA	1.49	1.11
1:K:125:THR:HG21	1:h:550:SER:O	1.48	1.11
1:Q:52:ILE:O	1:l:52:ILE:N	1.82	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:52:ILE:O	1:f:52:ILE:N	1.82	1.11
1:D:52:ILE:N	1:j:52:ILE:O	1.82	1.11
1:I:242:SER:HB3	1:e:94:LYS:N	1.63	1.11
1:W:50:LEU:O	1:s:53:VAL:HA	1.49	1.11
1:Z:125:THR:HA	1:w:551:THR:HG22	1.32	1.11
1:i:552:ILE:HG12	1:n:127:THR:HG22	1.21	1.11
1:0:52:ILE:O	1:6:52:ILE:N	1.82	1.11
1:0:551:THR:HG22	1:U:125:THR:HA	1.32	1.11
1:3:50:LEU:O	1:X:53:VAL:HA	1.49	1.11
1:3:552:ILE:HG12	1:x:127:THR:HG22	1.21	1.11
1:6:127:THR:HG22	1:c:552:ILE:HG12	1.21	1.11
1:6:552:ILE:HG12	1:c:127:THR:HG22	1.21	1.11
1:B:52:ILE:O	1:i:52:ILE:N	1.82	1.11
1:D:551:THR:HG22	1:V:125:THR:HA	1.32	1.11
1:G:50:LEU:O	1:J:53:VAL:HA	1.49	1.11
1:I:52:ILE:N	1:N:52:ILE:O	1.82	1.11
1:I:53:VAL:HA	1:P:50:LEU:O	1.49	1.11
1:O:50:LEU:O	1:h:53:VAL:HA	1.49	1.11
1:P:125:THR:HA	1:e:551:THR:HG22	1.32	1.11
1:U:53:VAL:HA	1:Y:50:LEU:O	1.49	1.11
1:X:125:THR:HG21	1:t:550:SER:O	1.48	1.11
1:m:125:THR:HG21	1:z:550:SER:O	1.48	1.11
1:2:52:ILE:O	1:h:52:ILE:N	1.82	1.10
1:4:551:THR:HG22	1:O:125:THR:HA	1.32	1.10
1:5:53:VAL:HA	1:v:50:LEU:O	1.49	1.10
1:7:94:LYS:N	1:P:242:SER:HB3	1.63	1.10
1:B:551:THR:HG22	1:s:125:THR:HA	1.32	1.10
1:D:125:THR:HG21	1:V:550:SER:O	1.48	1.10
1:U:52:ILE:N	1:V:52:ILE:O	1.82	1.10
1:W:127:THR:HG22	1:b:552:ILE:HG12	1.21	1.10
1:W:551:THR:HG22	1:b:125:THR:HA	1.32	1.10
1:m:551:THR:HG22	1:z:125:THR:HA	1.32	1.10
1:2:127:THR:HG22	1:T:552:ILE:HG12	1.21	1.10
1:7:242:SER:HB3	1:s:94:LYS:N	1.63	1.10
1:C:242:SER:HB3	1:L:94:LYS:H	0.93	1.10
1:E:242:SER:HB3	1:F:94:LYS:H	0.93	1.10
1:F:242:SER:HB3	1:R:94:LYS:H	0.93	1.10
1:O:242:SER:HB3	1:T:94:LYS:N	1.63	1.10
1:Y:94:LYS:H	1:k:242:SER:HB3	0.93	1.10
1:f:551:THR:HG22	1:q:125:THR:HA	1.32	1.10
1:q:52:ILE:O	1:s:52:ILE:N	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:THR:HA	1:Y:551:THR:HG22	1.32	1.10
1:A:552:ILE:HG12	1:Y:127:THR:HG22	1.21	1.10
1:B:552:ILE:HG12	1:s:127:THR:HG22	1.21	1.10
1:L:242:SER:HB3	1:w:94:LYS:H	0.93	1.10
1:Q:125:THR:HG21	1:o:550:SER:O	1.48	1.10
1:W:94:LYS:H	1:a:242:SER:HB3	0.93	1.10
1:X:551:THR:HG22	1:t:125:THR:HA	1.32	1.10
1:f:125:THR:HG21	1:q:550:SER:O	1.48	1.10
1:i:127:THR:HG22	1:n:552:ILE:HG12	1.21	1.10
1:O:125:THR:HG21	1:U:550:SER:O	1.48	1.10
1:2:94:LYS:H	1:6:242:SER:HB3	0.93	1.10
1:5:94:LYS:H	1:n:242:SER:HB3	0.93	1.10
1:G:125:THR:HG21	1:j:550:SER:O	1.48	1.10
1:H:552:ILE:HG12	1:S:127:THR:HG22	1.21	1.10
1:I:94:LYS:H	1:Q:242:SER:HB3	0.93	1.10
1:J:94:LYS:H	1:c:242:SER:HB3	0.93	1.10
1:Q:550:SER:O	1:o:125:THR:HG21	1.48	1.10
1:T:242:SER:HB3	1:U:94:LYS:N	1.63	1.10
1:a:53:VAL:HA	1:b:50:LEU:O	1.49	1.10
1:h:94:LYS:H	1:o:242:SER:HB3	0.93	1.10
1:O:552:ILE:HG12	1:U:127:THR:HG22	1.21	1.10
1:2:50:LEU:O	1:O:53:VAL:HA	1.49	1.10
1:A:50:LEU:O	1:k:53:VAL:HA	1.49	1.10
1:N:94:LYS:H	1:i:242:SER:HB3	0.93	1.10
1:P:550:SER:O	1:e:125:THR:HG21	1.48	1.10
1:R:127:THR:HG22	1:y:552:ILE:HG12	1.21	1.10
1:f:125:THR:HA	1:q:551:THR:HG22	1.32	1.10
1:t:50:LEU:O	1:w:53:VAL:HA	1.49	1.10
1:7:552:ILE:HG12	1:N:127:THR:HG22	1.21	1.09
1:B:125:THR:HG21	1:s:550:SER:O	1.48	1.09
1:E:50:LEU:O	1:v:53:VAL:HA	1.49	1.09
1:N:50:LEU:O	1:P:53:VAL:HA	1.49	1.09
1:R:53:VAL:HA	1:z:50:LEU:O	1.49	1.09
1:Z:552:ILE:HG12	1:w:127:THR:HG22	1.21	1.09
1:d:550:SER:O	1:v:125:THR:HG21	1.48	1.09
1:4:125:THR:HG21	1:O:550:SER:O	1.48	1.09
1:C:50:LEU:O	1:G:53:VAL:HA	1.49	1.09
1:D:125:THR:HA	1:V:551:THR:HG22	1.32	1.09
1:E:157:LEU:CD2	1:F:561:TYR:CD1	2.35	1.09
1:C:157:LEU:CD2	1:L:561:TYR:CD1	2.36	1.09
1:K:50:LEU:O	1:o:53:VAL:HA	1.49	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:551:THR:HG22	1:p:125:THR:HA	1.32	1.09
1:2:125:THR:HA	1:T:551:THR:HG22	1.32	1.09
1:5:551:THR:HG22	1:F:125:THR:HA	1.32	1.09
1:G:157:LEU:CD2	1:a:561:TYR:CD1	2.36	1.09
1:J:551:THR:HG22	1:L:125:THR:HA	1.32	1.09
1:M:125:THR:HA	1:p:551:THR:HG22	1.32	1.09
1:b:94:LYS:H	1:s:242:SER:HB3	0.93	1.09
1:7:157:LEU:CD2	1:s:561:TYR:CD1	2.35	1.09
1:7:551:THR:HG22	1:N:125:THR:HA	1.32	1.09
1:A:94:LYS:H	1:U:242:SER:HB3	0.94	1.09
1:B:94:LYS:H	1:q:242:SER:HB3	0.93	1.09
1:D:561:TYR:CD1	1:Y:157:LEU:CD2	2.35	1.09
1:Q:53:VAL:HA	1:l:50:LEU:O	1.49	1.09
1:T:157:LEU:CD2	1:U:561:TYR:CD1	2.35	1.09
1:k:561:TYR:CD1	1:v:157:LEU:CD2	2.36	1.09
1:1:125:THR:HA	1:u:551:THR:HG22	1.32	1.08
1:A:551:THR:HG22	1:Y:125:THR:HA	1.32	1.08
1:B:550:SER:O	1:s:125:THR:HG21	1.48	1.08
1:G:94:LYS:H	1:M:242:SER:HB3	0.93	1.08
1:Q:551:THR:HG22	1:o:125:THR:HA	1.32	1.08
1:W:125:THR:HA	1:b:551:THR:HG22	1.32	1.08
1:W:157:LEU:CD2	1:f:561:TYR:CD1	2.35	1.08
1:0:94:LYS:H	1:V:242:SER:HB3	0.93	1.08
1:4:157:LEU:CD2	1:z:561:TYR:CD1	2.35	1.08
1:X:125:THR:HA	1:t:551:THR:HG22	1.32	1.08
1:e:157:LEU:CD2	1:t:561:TYR:CD1	2.35	1.08
1:m:125:THR:HA	1:z:551:THR:HG22	1.32	1.08
1:p:242:SER:HB3	1:v:94:LYS:H	0.93	1.08
1:0:550:SER:O	1:U:125:THR:HG21	1.48	1.08
1:5:561:TYR:CD1	1:n:157:LEU:CD2	2.35	1.08
1:J:561:TYR:CD1	1:c:157:LEU:CD2	2.35	1.08
1:Q:125:THR:HA	1:o:551:THR:HG22	1.32	1.08
1:Z:127:THR:HG22	1:w:552:ILE:HG12	1.21	1.08
1:g:551:THR:HG22	1:r:125:THR:HA	1.32	1.08
1:W:552:ILE:HG12	1:b:127:THR:HG22	1.21	1.08
1:4:94:LYS:H	1:h:242:SER:HB3	0.93	1.08
1:B:242:SER:HB3	1:n:94:LYS:H	0.93	1.08
1:I:242:SER:HB3	1:e:94:LYS:H	0.93	1.08
1:T:242:SER:HB3	1:U:94:LYS:H	0.93	1.08
1:I:552:ILE:HG12	1:l:127:THR:HG22	1.21	1.07
1:7:242:SER:HB3	1:s:94:LYS:H	0.93	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:THR:HG22	1:Y:552:ILE:HG12	1.21	1.07
1:B:157:LEU:CD2	1:n:561:TYR:CD1	2.35	1.07
1:K:127:THR:HG22	1:h:552:ILE:HG12	1.21	1.07
1:0:157:LEU:CD2	1:c:561:TYR:CD1	2.36	1.07
1:0:242:SER:HB3	1:c:94:LYS:H	0.93	1.07
1:3:125:THR:HA	1:x:551:THR:HG22	1.32	1.07
1:5:127:THR:HG22	1:F:552:ILE:HG12	1.21	1.07
1:7:94:LYS:H	1:P:242:SER:HB3	0.94	1.07
1:H:125:THR:HA	1:S:551:THR:HG22	1.32	1.07
1:Q:94:LYS:H	1:g:242:SER:HB3	0.93	1.07
1:K:242:SER:HB3	1:r:94:LYS:H	0.94	1.07
1:N:561:TYR:CD1	1:i:157:LEU:CD2	2.35	1.07
1:O:242:SER:HB3	1:T:94:LYS:H	0.93	1.07
1:W:561:TYR:CD1	1:a:157:LEU:CD2	2.35	1.07
1:0:125:THR:HA	1:U:551:THR:HG22	1.32	1.07
1:5:157:LEU:CD2	1:d:561:TYR:CD1	2.36	1.07
1:K:551:THR:HG22	1:h:125:THR:HA	1.32	1.07
1:N:157:LEU:CD2	1:l:561:TYR:CD1	2.36	1.07
1:V:561:TYR:CD1	1:j:157:LEU:CD2	2.35	1.07
1:Y:561:TYR:CD1	1:k:157:LEU:CD2	2.35	1.07
1:d:157:LEU:CD2	1:q:561:TYR:CD1	2.35	1.07
1:e:242:SER:HB3	1:t:94:LYS:H	0.93	1.07
1:o:94:LYS:H	1:u:242:SER:HB3	0.93	1.07
1:1:94:LYS:H	1:l:242:SER:HB3	0.93	1.06
1:2:157:LEU:CD2	1:K:561:TYR:CD1	2.36	1.06
1:2:561:TYR:CD1	1:6:157:LEU:CD2	2.35	1.06
1:B:125:THR:HA	1:s:551:THR:HG22	1.32	1.06
1:H:157:LEU:CD2	1:O:561:TYR:CD1	2.35	1.06
1:J:127:THR:HG22	1:L:552:ILE:HG12	1.21	1.06
1:J:157:LEU:CD2	1:j:561:TYR:CD1	2.36	1.06
1:J:552:ILE:HG12	1:L:127:THR:HG22	1.21	1.06
1:X:94:LYS:H	1:w:242:SER:HB3	0.93	1.06
1:d:551:THR:HG22	1:v:125:THR:HA	1.32	1.06
1:f:127:THR:HG22	1:q:552:ILE:HG12	1.21	1.06
1:k:94:LYS:H	1:v:242:SER:HB3	0.93	1.06
1:3:157:LEU:CD2	1:P:561:TYR:CD1	2.35	1.06
1:4:242:SER:HB3	1:z:94:LYS:H	0.93	1.06
1:4:561:TYR:CD1	1:h:157:LEU:CD2	2.36	1.06
1:5:552:ILE:HG12	1:F:127:THR:HG22	1.21	1.06
1:6:125:THR:HA	1:c:551:THR:HG22	1.32	1.06
1:C:127:THR:HG22	1:a:552:ILE:HG12	1.21	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:242:SER:HB3	1:p:94:LYS:H	0.93	1.06
1:G:242:SER:HB3	1:a:94:LYS:H	0.93	1.06
1:I:157:LEU:CD2	1:e:561:TYR:CD1	2.36	1.06
1:M:94:LYS:H	1:f:242:SER:HB3	0.93	1.06
1:Z:551:THR:HG22	1:w:125:THR:HA	1.32	1.06
1:i:125:THR:HA	1:n:551:THR:HG22	1.32	1.06
1:G:125:THR:HA	1:j:551:THR:HG22	1.32	1.06
1:I:125:THR:HA	1:l:551:THR:HG22	1.32	1.06
1:R:125:THR:HA	1:y:551:THR:HG22	1.32	1.06
1:V:94:LYS:H	1:j:242:SER:HB3	0.93	1.06
1:6:94:LYS:H	1:Z:242:SER:HB3	0.93	1.06
1:R:242:SER:HB3	1:m:94:LYS:H	0.93	1.06
1:X:242:SER:HB3	1:x:94:LYS:H	0.93	1.06
1:d:242:SER:HB3	1:q:94:LYS:H	0.93	1.06
1:i:94:LYS:H	1:y:242:SER:HB3	0.93	1.06
1:E:94:LYS:H	1:S:242:SER:HB3	0.93	1.06
1:E:127:THR:HG22	1:k:552:ILE:HG12	1.21	1.06
1:H:242:SER:HB3	1:O:94:LYS:H	0.93	1.06
1:S:94:LYS:H	1:m:242:SER:HB3	0.93	1.06
1:Z:561:TYR:CD1	1:r:157:LEU:CD2	2.35	1.06
1:d:125:THR:HA	1:v:551:THR:HG22	1.32	1.06
1:1:242:SER:HB3	1:y:94:LYS:H	0.93	1.05
1:4:127:THR:HG23	1:O:551:THR:HA	1.38	1.05
1:G:551:THR:HG22	1:j:125:THR:HA	1.32	1.05
1:O:157:LEU:CD2	1:T:561:TYR:CD1	2.36	1.05
1:P:551:THR:HA	1:e:127:THR:HG23	1.38	1.05
1:u:94:LYS:H	1:z:242:SER:HB3	0.93	1.05
1:1:157:LEU:CD2	1:y:561:TYR:CD1	2.35	1.05
1:3:242:SER:HB3	1:P:94:LYS:H	0.93	1.05
1:3:551:THR:HA	1:x:127:THR:HG23	1.38	1.05
1:7:561:TYR:CD1	1:P:157:LEU:CD2	2.36	1.05
1:B:561:TYR:CD1	1:q:157:LEU:CD2	2.35	1.05
1:C:94:LYS:H	1:x:242:SER:HB3	0.93	1.05
1:S:561:TYR:CD1	1:m:157:LEU:CD2	2.35	1.05
1:X:157:LEU:CD2	1:x:561:TYR:CD1	2.35	1.05
1:g:94:LYS:H	1:t:242:SER:HB3	0.93	1.05
1:u:561:TYR:CD1	1:z:157:LEU:CD2	2.35	1.05
1:0:561:TYR:CD1	1:V:157:LEU:CD2	2.35	1.05
1:3:127:THR:HG23	1:x:551:THR:HA	1.38	1.05
1:A:561:TYR:CD1	1:U:157:LEU:CD2	2.35	1.05
1:D:551:THR:HA	1:V:127:THR:HG23	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:THR:HG23	1:S:551:THR:HA	1.38	1.05
1:H:551:THR:HA	1:S:127:THR:HG23	1.38	1.05
1:X:127:THR:HG23	1:t:551:THR:HA	1.38	1.05
1:Z:94:LYS:H	1:r:242:SER:HB3	0.93	1.05
1:d:551:THR:HA	1:v:127:THR:HG23	1.38	1.05
1:g:561:TYR:CD1	1:t:157:LEU:CD2	2.35	1.05
1:i:127:THR:HG23	1:n:551:THR:HA	1.38	1.05
1:m:127:THR:HG23	1:z:551:THR:HA	1.38	1.05
1:o:561:TYR:CD1	1:u:157:LEU:CD2	2.35	1.05
1:5:127:THR:HG23	1:F:551:THR:HA	1.38	1.05
1:6:127:THR:HG23	1:c:551:THR:HA	1.38	1.05
1:G:127:THR:HG23	1:j:551:THR:HA	1.38	1.05
1:G:551:THR:HA	1:j:127:THR:HG23	1.38	1.05
1:I:551:THR:HG22	1:l:125:THR:HA	1.32	1.05
1:b:561:TYR:CD1	1:s:157:LEU:CD2	2.35	1.05
1:d:127:THR:HG23	1:v:551:THR:HA	1.38	1.05
1:f:551:THR:HA	1:q:127:THR:HG23	1.38	1.05
1:D:127:THR:HG23	1:V:551:THR:HA	1.38	1.05
1:J:127:THR:HG23	1:L:551:THR:HA	1.38	1.05
1:Q:561:TYR:CD1	1:g:157:LEU:CD2	2.35	1.05
1:O:551:THR:HA	1:U:127:THR:HG23	1.38	1.04
1:3:561:TYR:CD1	1:b:157:LEU:CD2	2.35	1.04
1:6:551:THR:HA	1:c:127:THR:HG23	1.38	1.04
1:A:157:LEU:CD2	1:H:561:TYR:CD1	2.35	1.04
1:D:94:LYS:H	1:Y:242:SER:HB3	0.93	1.04
1:J:549:MET:HE2	1:L:125:THR:OG1	1.58	1.04
1:f:127:THR:HG23	1:q:551:THR:HA	1.38	1.04
1:i:551:THR:HA	1:n:127:THR:HG23	1.38	1.04
1:5:549:MET:HE2	1:F:125:THR:OG1	1.58	1.04
1:B:551:THR:HA	1:s:127:THR:HG23	1.38	1.04
1:C:561:TYR:CD1	1:x:157:LEU:CD2	2.35	1.04
1:D:125:THR:OG1	1:V:549:MET:HE2	1.58	1.04
1:G:549:MET:HE2	1:j:125:THR:OG1	1.58	1.04
1:I:561:TYR:CD1	1:Q:157:LEU:CD2	2.35	1.04
1:K:125:THR:HA	1:h:551:THR:HG22	1.32	1.04
1:K:551:THR:HA	1:h:127:THR:HG23	1.38	1.04
1:d:125:THR:OG1	1:v:549:MET:HE2	1.58	1.04
1:f:125:THR:OG1	1:q:549:MET:HE2	1.58	1.04
1:h:561:TYR:CD1	1:o:157:LEU:CD2	2.35	1.04
1:2:549:MET:HE2	1:T:125:THR:OG1	1.58	1.04
1:6:125:THR:OG1	1:c:549:MET:HE2	1.58	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:GLU:OE2	1:U:395:LYS:CE	2.06	1.04
1:C:87:GLU:OE2	1:x:395:LYS:CE	2.06	1.04
1:D:157:LEU:CD2	1:p:561:TYR:CD1	2.35	1.04
1:E:87:GLU:OE2	1:S:395:LYS:CE	2.06	1.04
1:I:127:THR:HG23	1:l:551:THR:HA	1.38	1.04
1:R:395:LYS:CE	1:m:87:GLU:OE2	2.06	1.04
1:W:242:SER:HB3	1:f:94:LYS:H	0.93	1.04
1:X:87:GLU:OE2	1:w:395:LYS:CE	2.06	1.04
1:X:561:TYR:CD1	1:w:157:LEU:CD2	2.35	1.04
1:b:87:GLU:OE2	1:s:395:LYS:CE	2.06	1.04
1:g:87:GLU:OE2	1:t:395:LYS:CE	2.06	1.04
1:i:125:THR:OG1	1:n:549:MET:HE2	1.58	1.04
1:m:125:THR:OG1	1:z:549:MET:HE2	1.58	1.04
1:u:87:GLU:OE2	1:z:395:LYS:CE	2.06	1.04
1:l:561:TYR:CD1	1:l:157:LEU:CD2	2.35	1.04
1:3:395:LYS:CE	1:P:87:GLU:OE2	2.06	1.04
1:4:551:THR:HA	1:O:127:THR:HG23	1.38	1.04
1:5:242:SER:HB3	1:d:94:LYS:H	0.93	1.04
1:7:125:THR:OG1	1:N:549:MET:HE2	1.58	1.04
1:B:87:GLU:OE2	1:q:395:LYS:CE	2.06	1.04
1:C:125:THR:OG1	1:a:549:MET:HE2	1.58	1.04
1:C:395:LYS:CE	1:L:87:GLU:OE2	2.06	1.04
1:C:549:MET:HE2	1:a:125:THR:OG1	1.58	1.04
1:E:395:LYS:CE	1:F:87:GLU:OE2	2.06	1.04
1:E:561:TYR:CD1	1:S:157:LEU:CD2	2.35	1.04
1:F:395:LYS:CE	1:R:87:GLU:OE2	2.06	1.04
1:H:395:LYS:CE	1:O:87:GLU:OE2	2.06	1.04
1:L:395:LYS:CE	1:w:87:GLU:OE2	2.06	1.04
1:M:125:THR:OG1	1:p:549:MET:HE2	1.58	1.04
1:M:549:MET:HE2	1:p:125:THR:OG1	1.58	1.04
1:P:127:THR:HG23	1:e:551:THR:HA	1.38	1.04
1:R:157:LEU:CD2	1:m:561:TYR:CD1	2.35	1.04
1:S:87:GLU:OE2	1:m:395:LYS:CE	2.06	1.04
1:X:125:THR:OG1	1:t:549:MET:HE2	1.58	1.04
1:X:395:LYS:CE	1:x:87:GLU:OE2	2.06	1.04
1:0:87:GLU:OE2	1:V:395:LYS:CE	2.06	1.04
1:0:395:LYS:CE	1:c:87:GLU:OE2	2.06	1.04
1:5:551:THR:HA	1:F:127:THR:HG23	1.38	1.04
1:B:395:LYS:CE	1:n:87:GLU:OE2	2.06	1.04
1:E:125:THR:OG1	1:k:549:MET:HE2	1.58	1.04
1:E:549:MET:HE2	1:k:125:THR:OG1	1.58	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:125:THR:OG1	1:j:549:MET:HE2	1.58	1.04
1:I:87:GLU:OE2	1:Q:395:LYS:CE	2.06	1.04
1:J:242:SER:HB3	1:j:94:LYS:H	0.93	1.04
1:J:551:THR:HA	1:L:127:THR:HG23	1.38	1.04
1:K:125:THR:OG1	1:h:549:MET:HE2	1.58	1.04
1:K:157:LEU:CD2	1:r:561:TYR:CD1	2.35	1.04
1:M:561:TYR:CD1	1:f:157:LEU:CD2	2.35	1.04
1:d:549:MET:HE2	1:v:125:THR:OG1	1.58	1.04
1:g:551:THR:HA	1:r:127:THR:HG23	1.38	1.04
1:O:127:THR:HG23	1:U:551:THR:HA	1.38	1.03
1:O:549:MET:HE2	1:U:125:THR:OG1	1.58	1.03
1:1:87:GLU:OE2	1:l:395:LYS:CE	2.06	1.03
1:1:127:THR:HG23	1:u:551:THR:HA	1.38	1.03
1:2:87:GLU:OE2	1:6:395:LYS:CE	2.06	1.03
1:2:395:LYS:CE	1:K:87:GLU:OE2	2.06	1.03
1:B:127:THR:HG23	1:s:551:THR:HA	1.38	1.03
1:B:549:MET:HE2	1:s:125:THR:OG1	1.58	1.03
1:D:549:MET:HE2	1:V:125:THR:OG1	1.58	1.03
1:I:549:MET:HE2	1:l:125:THR:OG1	1.58	1.03
1:J:87:GLU:OE2	1:c:395:LYS:CE	2.06	1.03
1:K:395:LYS:CE	1:r:87:GLU:OE2	2.06	1.03
1:N:87:GLU:OE2	1:i:395:LYS:CE	2.06	1.03
1:N:242:SER:HB3	1:l:94:LYS:H	0.93	1.03
1:P:549:MET:HE2	1:e:125:THR:OG1	1.58	1.03
1:Q:125:THR:OG1	1:o:549:MET:HE2	1.58	1.03
1:Q:549:MET:HE2	1:o:125:THR:OG1	1.58	1.03
1:f:549:MET:HE2	1:q:125:THR:OG1	1.58	1.03
1:h:87:GLU:OE2	1:o:395:LYS:CE	2.06	1.03
1:m:551:THR:HA	1:z:127:THR:HG23	1.38	1.03
1:2:125:THR:OG1	1:T:549:MET:HE2	1.58	1.03
1:3:94:LYS:H	1:b:242:SER:HB3	0.93	1.03
1:3:125:THR:OG1	1:x:549:MET:HE2	1.58	1.03
1:3:549:MET:HE2	1:x:125:THR:OG1	1.58	1.03
1:4:125:THR:OG1	1:O:549:MET:HE2	1.58	1.03
1:5:87:GLU:OE2	1:n:395:LYS:CE	2.06	1.03
1:6:549:MET:HE2	1:c:125:THR:OG1	1.58	1.03
1:7:551:THR:HA	1:N:127:THR:HG23	1.38	1.03
1:H:549:MET:HE2	1:S:125:THR:OG1	1.58	1.03
1:J:125:THR:OG1	1:L:549:MET:HE2	1.58	1.03
1:N:395:LYS:CE	1:l:87:GLU:OE2	2.06	1.03
1:X:551:THR:HA	1:t:127:THR:HG23	1.38	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:127:THR:HG23	1:T:551:THR:HA	1.38	1.03
1:2:242:SER:HB3	1:K:94:LYS:H	0.93	1.03
1:4:395:LYS:CE	1:z:87:GLU:OE2	2.06	1.03
1:7:549:MET:HE2	1:N:125:THR:OG1	1.58	1.03
1:A:242:SER:HB3	1:H:94:LYS:H	0.93	1.03
1:A:549:MET:HE2	1:Y:125:THR:OG1	1.58	1.03
1:G:87:GLU:OE2	1:M:395:LYS:CE	2.06	1.03
1:G:395:LYS:CE	1:a:87:GLU:OE2	2.06	1.03
1:G:561:TYR:CD1	1:M:157:LEU:CD2	2.35	1.03
1:H:125:THR:OG1	1:S:549:MET:HE2	1.58	1.03
1:J:395:LYS:CE	1:j:87:GLU:OE2	2.06	1.03
1:Q:551:THR:HA	1:o:127:THR:HG23	1.38	1.03
1:W:87:GLU:OE2	1:a:395:LYS:CE	2.06	1.03
1:Y:87:GLU:OE2	1:k:395:LYS:CE	2.06	1.03
1:g:125:THR:OG1	1:r:549:MET:HE2	1.58	1.03
1:i:549:MET:HE2	1:n:125:THR:OG1	1.58	1.03
1:k:87:GLU:OE2	1:v:395:LYS:CE	2.06	1.03
1:p:157:LEU:CD2	1:v:561:TYR:CD1	2.35	1.03
1:p:395:LYS:CE	1:v:87:GLU:OE2	2.06	1.03
1:1:549:MET:HE2	1:u:125:THR:OG1	1.58	1.03
1:5:125:THR:OG1	1:F:549:MET:HE2	1.58	1.03
1:5:395:LYS:CE	1:d:87:GLU:OE2	2.06	1.03
1:A:127:THR:HG23	1:Y:551:THR:HA	1.38	1.03
1:D:395:LYS:CE	1:p:87:GLU:OE2	2.06	1.03
1:W:125:THR:OG1	1:b:549:MET:HE2	1.58	1.03
1:W:551:THR:HA	1:b:127:THR:HG23	1.38	1.03
1:X:549:MET:HE2	1:t:125:THR:OG1	1.58	1.03
1:e:395:LYS:CE	1:t:87:GLU:OE2	2.06	1.03
1:M:87:GLU:OE2	1:f:395:LYS:CE	2.06	1.03
1:Q:127:THR:HG23	1:o:551:THR:HA	1.38	1.03
1:m:549:MET:HE2	1:z:125:THR:OG1	1.58	1.03
1:6:87:GLU:OE2	1:Z:395:LYS:CE	2.06	1.02
1:D:87:GLU:OE2	1:Y:395:LYS:CE	2.06	1.02
1:E:551:THR:HA	1:k:127:THR:HG23	1.38	1.02
1:I:395:LYS:CE	1:e:87:GLU:OE2	2.06	1.02
1:W:395:LYS:CE	1:f:87:GLU:OE2	2.06	1.02
1:g:127:THR:HG23	1:r:551:THR:HA	1.38	1.02
1:1:551:THR:HA	1:u:127:THR:HG23	1.38	1.02
1:4:87:GLU:OE2	1:h:395:LYS:CE	2.06	1.02
1:7:87:GLU:OE2	1:P:395:LYS:CE	2.06	1.02
1:C:551:THR:HA	1:a:127:THR:HG23	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:157:LEU:CD2	1:R:561:TYR:CD1	2.35	1.02
1:K:127:THR:HG23	1:h:551:THR:HA	1.38	1.02
1:O:395:LYS:CE	1:T:87:GLU:OE2	2.06	1.02
1:R:549:MET:HE2	1:y:125:THR:OG1	1.58	1.02
1:V:87:GLU:OE2	1:j:395:LYS:CE	2.06	1.02
1:i:87:GLU:OE2	1:y:395:LYS:CE	2.06	1.02
1:o:87:GLU:OE2	1:u:395:LYS:CE	2.06	1.02
1:l:395:LYS:CE	1:y:87:GLU:OE2	2.06	1.02
1:I:551:THR:HA	1:l:127:THR:HG23	1.38	1.02
1:L:157:LEU:CD2	1:w:561:TYR:CD1	2.35	1.02
1:Q:87:GLU:OE2	1:g:395:LYS:CE	2.06	1.02
1:d:395:LYS:CE	1:q:87:GLU:OE2	2.06	1.02
1:i:561:TYR:CD1	1:y:157:LEU:CD2	2.35	1.02
1:7:127:THR:HG23	1:N:551:THR:HA	1.38	1.02
1:7:395:LYS:CE	1:s:87:GLU:OE2	2.06	1.02
1:T:395:LYS:CE	1:U:87:GLU:OE2	2.06	1.02
1:W:549:MET:HE2	1:b:125:THR:OG1	1.58	1.02
1:Z:87:GLU:OE2	1:r:395:LYS:CE	2.06	1.02
1:Z:125:THR:OG1	1:w:549:MET:HE2	1.58	1.02
1:1:125:THR:OG1	1:u:549:MET:HE2	1.58	1.02
1:2:551:THR:HA	1:T:127:THR:HG23	1.38	1.02
1:6:561:TYR:CD1	1:Z:157:LEU:CD2	2.35	1.02
1:R:127:THR:HG23	1:y:551:THR:HA	1.38	1.02
1:R:551:THR:HA	1:y:127:THR:HG23	1.38	1.02
1:Z:127:THR:HG23	1:w:551:THR:HA	1.38	1.02
1:Z:551:THR:HA	1:w:127:THR:HG23	1.38	1.02
1:4:549:MET:HE2	1:O:125:THR:OG1	1.58	1.01
1:A:125:THR:OG1	1:Y:549:MET:HE2	1.58	1.01
1:A:395:LYS:CE	1:H:87:GLU:OE2	2.06	1.01
1:3:87:GLU:OE2	1:b:395:LYS:CE	2.06	1.01
1:M:127:THR:HG23	1:p:551:THR:HA	1.38	1.01
1:M:551:THR:HA	1:p:127:THR:HG23	1.38	1.01
1:P:125:THR:OG1	1:e:549:MET:HE2	1.58	1.01
1:R:125:THR:OG1	1:y:549:MET:HE2	1.58	1.01
1:g:549:MET:HE2	1:r:125:THR:OG1	1.58	1.01
1:K:549:MET:HE2	1:h:125:THR:OG1	1.58	1.01
1:Z:549:MET:HE2	1:w:125:THR:OG1	1.58	1.01
1:I:125:THR:OG1	1:l:549:MET:HE2	1.58	1.01
1:0:125:THR:OG1	1:U:549:MET:HE2	1.58	1.00
1:3:550:SER:O	1:x:125:THR:CG2	2.10	1.00
1:C:127:THR:HG23	1:a:551:THR:HA	1.38	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:127:THR:HG23	1:k:551:THR:HA	1.38	1.00
1:G:550:SER:O	1:j:125:THR:CG2	2.10	1.00
1:H:550:SER:O	1:S:125:THR:CG2	2.10	1.00
1:M:125:THR:CG2	1:p:550:SER:O	2.10	1.00
1:M:550:SER:O	1:p:125:THR:CG2	2.10	1.00
1:d:125:THR:CG2	1:v:550:SER:O	2.10	1.00
1:5:550:SER:O	1:F:125:THR:CG2	2.10	1.00
1:6:125:THR:CG2	1:c:550:SER:O	2.10	1.00
1:B:125:THR:OG1	1:s:549:MET:HE2	1.58	1.00
1:J:550:SER:O	1:L:125:THR:CG2	2.10	1.00
1:Q:550:SER:O	1:o:125:THR:CG2	2.10	1.00
1:i:125:THR:CG2	1:n:550:SER:O	2.10	1.00
1:Q:125:THR:CG2	1:o:550:SER:O	2.10	1.00
1:W:125:THR:CG2	1:b:550:SER:O	2.10	1.00
1:A:550:SER:O	1:Y:125:THR:CG2	2.10	1.00
1:I:550:SER:O	1:l:125:THR:CG2	2.10	1.00
1:K:125:THR:CG2	1:h:550:SER:O	2.10	1.00
1:7:550:SER:O	1:N:125:THR:CG2	2.10	1.00
1:J:125:THR:CG2	1:L:550:SER:O	2.10	1.00
1:5:125:THR:CG2	1:F:550:SER:O	2.10	0.99
1:W:127:THR:HG23	1:b:551:THR:HA	1.38	0.99
1:2:125:THR:CG2	1:T:550:SER:O	2.10	0.99
1:A:551:THR:HA	1:Y:127:THR:HG23	1.38	0.99
1:1:125:THR:CG2	1:u:550:SER:O	2.10	0.99
1:A:125:THR:CG2	1:Y:550:SER:O	2.10	0.99
1:R:550:SER:O	1:y:125:THR:CG2	2.10	0.99
1:W:550:SER:O	1:b:125:THR:CG2	2.10	0.99
1:X:125:THR:CG2	1:t:550:SER:O	2.10	0.99
1:4:125:THR:CG2	1:O:550:SER:O	2.10	0.99
1:g:550:SER:O	1:r:125:THR:CG2	2.10	0.99
1:m:125:THR:CG2	1:z:550:SER:O	2.10	0.99
1:0:550:SER:O	1:U:125:THR:CG2	2.10	0.99
1:Z:125:THR:CG2	1:w:550:SER:O	2.10	0.99
1:m:550:SER:O	1:z:125:THR:CG2	2.10	0.99
1:P:550:SER:O	1:e:125:THR:CG2	2.10	0.99
1:X:550:SER:O	1:t:125:THR:CG2	2.10	0.99
1:o:73:GLN:HB2	1:u:236:ILE:HD11	1.45	0.99
1:1:550:SER:O	1:u:125:THR:CG2	2.10	0.99
1:2:236:ILE:HD11	1:K:73:GLN:HB2	1.45	0.99
1:B:550:SER:O	1:s:125:THR:CG2	2.10	0.99
1:C:550:SER:O	1:a:125:THR:CG2	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:73:GLN:HB2	1:g:236:ILE:HD11	1.45	0.99
1:E:550:SER:O	1:k:125:THR:CG2	2.10	0.99
1:G:125:THR:CG2	1:j:550:SER:O	2.10	0.99
1:N:236:ILE:HD11	1:l:73:GLN:HB2	1.45	0.99
1:R:125:THR:CG2	1:y:550:SER:O	2.10	0.99
1:f:125:THR:CG2	1:q:550:SER:O	2.10	0.99
1:i:550:SER:O	1:n:125:THR:CG2	2.10	0.99
1:6:550:SER:O	1:c:125:THR:CG2	2.10	0.98
1:D:125:THR:CG2	1:V:550:SER:O	2.10	0.98
1:D:550:SER:O	1:V:125:THR:CG2	2.10	0.98
1:d:550:SER:O	1:v:125:THR:CG2	2.10	0.98
1:g:125:THR:CG2	1:r:550:SER:O	2.10	0.98
1:E:125:THR:CG2	1:k:550:SER:O	2.10	0.98
1:Z:550:SER:O	1:w:125:THR:CG2	2.10	0.98
1:f:550:SER:O	1:q:125:THR:CG2	2.10	0.98
1:2:550:SER:O	1:T:125:THR:CG2	2.10	0.98
1:C:125:THR:CG2	1:a:550:SER:O	2.10	0.98
1:H:125:THR:CG2	1:S:550:SER:O	2.10	0.98
1:H:236:ILE:HD11	1:O:73:GLN:HB2	1.45	0.98
1:P:125:THR:CG2	1:e:550:SER:O	2.10	0.98
1:f:125:THR:CA	1:q:551:THR:HG22	1.94	0.98
1:1:551:THR:HG22	1:u:125:THR:CA	1.94	0.98
1:3:125:THR:CG2	1:x:550:SER:O	2.10	0.98
1:4:550:SER:O	1:O:125:THR:CG2	2.10	0.98
1:D:125:THR:CA	1:V:551:THR:HG22	1.94	0.98
1:F:236:ILE:HD11	1:R:73:GLN:HB2	1.45	0.98
1:G:236:ILE:HD11	1:a:73:GLN:HB2	1.45	0.98
1:g:125:THR:CA	1:r:551:THR:HG22	1.94	0.98
1:7:125:THR:CG2	1:N:550:SER:O	2.10	0.98
1:B:125:THR:CG2	1:s:550:SER:O	2.10	0.98
1:G:551:THR:HG22	1:j:125:THR:CA	1.94	0.98
1:d:125:THR:CA	1:v:551:THR:HG22	1.94	0.98
1:3:236:ILE:HD11	1:P:73:GLN:HB2	1.45	0.98
1:I:125:THR:CA	1:l:551:THR:HG22	1.94	0.98
1:L:236:ILE:HD11	1:w:73:GLN:HB2	1.45	0.98
1:k:73:GLN:HB2	1:v:236:ILE:HD11	1.45	0.98
1:7:73:GLN:HB2	1:P:236:ILE:HD11	1.45	0.98
1:B:236:ILE:HD11	1:n:73:GLN:HB2	1.45	0.98
1:K:551:THR:HG22	1:h:125:THR:CA	1.94	0.98
1:M:125:THR:CA	1:p:551:THR:HG22	1.94	0.98
1:M:551:THR:HG22	1:p:125:THR:CA	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:125:THR:CG2	1:U:550:SER:O	2.10	0.98
1:1:73:GLN:HB2	1:l:236:ILE:HD11	1.45	0.98
1:2:551:THR:HG22	1:T:125:THR:CA	1.94	0.98
1:4:551:THR:HG22	1:O:125:THR:CA	1.94	0.98
1:7:125:THR:CA	1:N:551:THR:HG22	1.94	0.98
1:A:125:THR:CA	1:Y:551:THR:HG22	1.94	0.98
1:E:551:THR:HG22	1:k:125:THR:CA	1.94	0.98
1:O:236:ILE:HD11	1:T:73:GLN:HB2	1.45	0.98
1:P:125:THR:CA	1:e:551:THR:HG22	1.94	0.98
1:W:551:THR:HG22	1:b:125:THR:CA	1.94	0.98
1:6:551:THR:HG22	1:c:125:THR:CA	1.94	0.98
1:C:551:THR:HG22	1:a:125:THR:CA	1.94	0.98
1:K:236:ILE:HD11	1:r:73:GLN:HB2	1.45	0.98
1:Y:73:GLN:HB2	1:k:236:ILE:HD11	1.45	0.98
1:0:236:ILE:HD11	1:c:73:GLN:HB2	1.45	0.98
1:1:125:THR:CA	1:u:551:THR:HG22	1.94	0.98
1:3:551:THR:HG22	1:x:125:THR:CA	1.94	0.98
1:6:73:GLN:HB2	1:Z:236:ILE:HD11	1.45	0.98
1:B:551:THR:HG22	1:s:125:THR:CA	1.94	0.98
1:H:551:THR:HG22	1:S:125:THR:CA	1.94	0.98
1:N:73:GLN:HB2	1:i:236:ILE:HD11	1.45	0.98
1:W:125:THR:CA	1:b:551:THR:HG22	1.94	0.98
1:i:551:THR:HG22	1:n:125:THR:CA	1.94	0.98
1:0:551:THR:HG22	1:U:125:THR:CA	1.94	0.97
1:2:125:THR:CA	1:T:551:THR:HG22	1.94	0.97
1:A:551:THR:HG22	1:Y:125:THR:CA	1.94	0.97
1:R:125:THR:CA	1:y:551:THR:HG22	1.94	0.97
1:W:73:GLN:HB2	1:a:236:ILE:HD11	1.45	0.97
1:Z:551:THR:HG22	1:w:125:THR:CA	1.94	0.97
1:g:551:THR:HG22	1:r:125:THR:CA	1.94	0.97
1:i:73:GLN:HB2	1:y:236:ILE:HD11	1.45	0.97
1:5:236:ILE:HD11	1:d:73:GLN:HB2	1.45	0.97
1:7:551:THR:HG22	1:N:125:THR:CA	1.94	0.97
1:U:545:ASP:OD2	1:V:156:SER:HB3	1.65	0.97
1:f:551:THR:HG22	1:q:125:THR:CA	1.94	0.97
1:2:73:GLN:HB2	1:6:236:ILE:HD11	1.45	0.97
1:D:551:THR:HG22	1:V:125:THR:CA	1.94	0.97
1:J:125:THR:CA	1:L:551:THR:HG22	1.94	0.97
1:K:156:SER:HB3	1:g:545:ASP:OD2	1.65	0.97
1:l:156:SER:HB3	1:u:545:ASP:OD2	1.65	0.97
1:q:156:SER:HB3	1:s:545:ASP:OD2	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:125:THR:CA	1:U:551:THR:HG22	1.94	0.97
1:1:156:SER:HB3	1:R:545:ASP:OD2	1.65	0.97
1:5:125:THR:CA	1:F:551:THR:HG22	1.94	0.97
1:J:236:ILE:HD11	1:j:73:GLN:HB2	1.45	0.97
1:r:156:SER:HB3	1:w:545:ASP:OD2	1.65	0.97
1:B:125:THR:CA	1:s:551:THR:HG22	1.94	0.97
1:Q:156:SER:HB3	1:l:545:ASP:OD2	1.65	0.97
1:Z:125:THR:CA	1:w:551:THR:HG22	1.94	0.97
1:2:156:SER:HB3	1:h:545:ASP:OD2	1.65	0.97
1:5:545:ASP:OD2	1:E:156:SER:HB3	1.65	0.97
1:6:156:SER:HB3	1:T:545:ASP:OD2	1.65	0.97
1:7:545:ASP:OD2	1:i:156:SER:HB3	1.65	0.97
1:I:545:ASP:OD2	1:N:156:SER:HB3	1.65	0.97
1:K:125:THR:CA	1:h:551:THR:HG22	1.94	0.97
1:K:545:ASP:OD2	1:o:156:SER:HB3	1.65	0.97
1:R:551:THR:HG22	1:y:125:THR:CA	1.94	0.97
1:Z:73:GLN:HB2	1:r:236:ILE:HD11	1.45	0.97
1:C:156:SER:HB3	1:J:545:ASP:OD2	1.65	0.97
1:I:125:THR:CG2	1:l:550:SER:O	2.10	0.97
1:K:550:SER:O	1:h:125:THR:CG2	2.10	0.97
1:Q:545:ASP:OD2	1:u:156:SER:HB3	1.65	0.97
1:G:125:THR:CA	1:j:551:THR:HG22	1.94	0.97
1:I:551:THR:HG22	1:l:125:THR:CA	1.94	0.97
1:J:551:THR:HG22	1:L:125:THR:CA	1.94	0.97
1:g:156:SER:HB3	1:o:545:ASP:OD2	1.65	0.97
1:1:236:ILE:HD11	1:y:73:GLN:HB2	1.45	0.97
1:5:551:THR:HG22	1:F:125:THR:CA	1.94	0.97
1:G:73:GLN:HB2	1:M:236:ILE:HD11	1.45	0.97
1:P:551:THR:HG22	1:e:125:THR:CA	1.94	0.97
1:X:551:THR:HG22	1:t:125:THR:CA	1.94	0.97
1:3:125:THR:CA	1:x:551:THR:HG22	1.94	0.97
1:A:236:ILE:HD11	1:H:73:GLN:HB2	1.45	0.97
1:X:73:GLN:HB2	1:w:236:ILE:HD11	1.45	0.97
1:d:551:THR:HG22	1:v:125:THR:CA	1.94	0.97
1:m:551:THR:HG22	1:z:125:THR:CA	1.94	0.97
1:1:545:ASP:OD2	1:z:156:SER:HB3	1.65	0.96
1:4:125:THR:CA	1:O:551:THR:HG22	1.94	0.96
1:4:545:ASP:OD2	1:H:156:SER:HB3	1.65	0.96
1:E:73:GLN:HB2	1:S:236:ILE:HD11	1.45	0.96
1:F:545:ASP:OD2	1:n:156:SER:HB3	1.65	0.96
1:H:125:THR:CA	1:S:551:THR:HG22	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:236:ILE:HD11	1:q:73:GLN:HB2	1.45	0.96
1:p:236:ILE:HD11	1:v:73:GLN:HB2	1.45	0.96
1:3:73:GLN:HB2	1:b:236:ILE:HD11	1.45	0.96
1:3:156:SER:HB3	1:e:545:ASP:OD2	1.65	0.96
1:C:125:THR:CA	1:a:551:THR:HG22	1.94	0.96
1:S:156:SER:HB3	1:k:545:ASP:OD2	1.65	0.96
1:a:545:ASP:OD2	1:x:156:SER:HB3	1.65	0.96
1:r:545:ASP:OD2	1:t:156:SER:HB3	1.65	0.96
1:D:236:ILE:HD11	1:p:73:GLN:HB2	1.45	0.96
1:R:236:ILE:HD11	1:m:73:GLN:HB2	1.45	0.96
1:V:73:GLN:HB2	1:j:236:ILE:HD11	1.45	0.96
1:E:125:THR:CA	1:k:551:THR:HG22	1.94	0.96
1:H:545:ASP:OD2	1:m:156:SER:HB3	1.65	0.96
1:L:545:ASP:OD2	1:c:156:SER:HB3	1.65	0.96
1:M:73:GLN:HB2	1:f:236:ILE:HD11	1.45	0.96
1:T:236:ILE:HD11	1:U:73:GLN:HB2	1.45	0.96
1:W:156:SER:HB3	1:q:545:ASP:OD2	1.65	0.96
1:b:73:GLN:HB2	1:s:236:ILE:HD11	1.45	0.96
1:3:545:ASP:OD2	1:X:156:SER:HB3	1.65	0.96
1:5:156:SER:HB3	1:v:545:ASP:OD2	1.65	0.96
1:7:236:ILE:HD11	1:s:73:GLN:HB2	1.45	0.96
1:C:73:GLN:HB2	1:x:236:ILE:HD11	1.45	0.96
1:F:156:SER:HB3	1:y:545:ASP:OD2	1.65	0.96
1:L:156:SER:HB3	1:Z:545:ASP:OD2	1.65	0.96
1:Q:125:THR:CA	1:o:551:THR:HG22	1.94	0.96
1:2:545:ASP:OD2	1:O:156:SER:HB3	1.65	0.96
1:S:73:GLN:HB2	1:m:236:ILE:HD11	1.45	0.96
1:V:545:ASP:OD2	1:Y:156:SER:HB3	1.65	0.96
1:i:125:THR:CA	1:n:551:THR:HG22	1.94	0.96
1:A:73:GLN:HB2	1:U:236:ILE:HD11	1.45	0.96
1:N:545:ASP:OD2	1:P:156:SER:HB3	1.65	0.96
1:Q:551:THR:HG22	1:o:125:THR:CA	1.94	0.96
1:Z:156:SER:HB3	1:c:545:ASP:OD2	1.65	0.96
1:n:545:ASP:OD2	1:y:156:SER:HB3	1.65	0.96
1:D:156:SER:HB3	1:M:545:ASP:OD2	1.65	0.96
1:E:236:ILE:HD11	1:F:73:GLN:HB2	1.45	0.96
1:G:545:ASP:OD2	1:J:156:SER:HB3	1.65	0.96
1:I:156:SER:HB3	1:P:545:ASP:OD2	1.65	0.96
1:R:156:SER:HB3	1:z:545:ASP:OD2	1.65	0.96
1:X:236:ILE:HD11	1:x:73:GLN:HB2	1.45	0.96
1:6:125:THR:CA	1:c:551:THR:HG22	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:236:ILE:HD11	1:L:73:GLN:HB2	1.45	0.96
1:D:545:ASP:OD2	1:j:156:SER:HB3	1.65	0.96
1:M:156:SER:HB3	1:j:545:ASP:OD2	1.65	0.96
1:O:545:ASP:OD2	1:h:156:SER:HB3	1.65	0.96
1:U:156:SER:HB3	1:Y:545:ASP:OD2	1.65	0.96
1:4:52:ILE:HG22	1:m:52:ILE:CG1	1.96	0.96
1:U:52:ILE:CG1	1:V:52:ILE:HG22	1.96	0.96
1:X:52:ILE:CG1	1:e:52:ILE:HG22	1.96	0.96
1:f:156:SER:HB3	1:p:545:ASP:OD2	1.65	0.96
1:q:52:ILE:HG22	1:s:52:ILE:CG1	1.96	0.96
1:t:545:ASP:OD2	1:w:156:SER:HB3	1.65	0.96
1:u:73:GLN:HB2	1:z:236:ILE:HD11	1.45	0.96
1:4:236:ILE:HD11	1:z:73:GLN:HB2	1.45	0.95
1:W:545:ASP:OD2	1:s:156:SER:HB3	1.65	0.95
1:d:545:ASP:OD2	1:p:156:SER:HB3	1.65	0.95
1:e:236:ILE:HD11	1:t:73:GLN:HB2	1.45	0.95
1:4:156:SER:HB3	1:m:545:ASP:OD2	1.65	0.95
1:M:52:ILE:HG22	1:j:52:ILE:CG1	1.96	0.95
1:d:156:SER:HB3	1:f:545:ASP:OD2	1.65	0.95
1:m:125:THR:CA	1:z:551:THR:HG22	1.94	0.95
1:0:545:ASP:OD2	1:T:156:SER:HB3	1.65	0.95
1:C:545:ASP:OD2	1:G:156:SER:HB3	1.65	0.95
1:I:52:ILE:HG22	1:P:52:ILE:CG1	1.96	0.95
1:d:52:ILE:CG1	1:p:52:ILE:HG22	1.96	0.95
1:2:52:ILE:CG1	1:O:52:ILE:HG22	1.96	0.95
1:2:52:ILE:HG22	1:h:52:ILE:CG1	1.96	0.95
1:O:52:ILE:CG1	1:h:52:ILE:HG22	1.97	0.95
1:X:125:THR:CA	1:t:551:THR:HG22	1.94	0.95
1:X:545:ASP:OD2	1:e:156:SER:HB3	1.65	0.95
1:g:73:GLN:HB2	1:t:236:ILE:HD11	1.45	0.95
1:n:52:ILE:CG1	1:y:52:ILE:HG22	1.96	0.95
1:C:52:ILE:HG22	1:J:52:ILE:CG1	1.96	0.95
1:E:545:ASP:OD2	1:v:156:SER:HB3	1.65	0.95
1:I:52:ILE:CG1	1:N:52:ILE:HG22	1.96	0.95
1:I:73:GLN:HB2	1:Q:236:ILE:HD11	1.45	0.95
1:J:73:GLN:HB2	1:c:236:ILE:HD11	1.45	0.95
1:N:52:ILE:CG1	1:P:52:ILE:HG22	1.96	0.95
1:5:52:ILE:CG1	1:E:52:ILE:HG22	1.96	0.95
1:5:52:ILE:HG22	1:v:52:ILE:CG1	1.96	0.95
1:7:156:SER:HB3	1:B:545:ASP:OD2	1.65	0.95
1:W:52:ILE:CG1	1:s:52:ILE:HG22	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:52:ILE:HG22	1:c:52:ILE:CG1	1.96	0.95
1:b:52:ILE:HG22	1:x:52:ILE:CG1	1.96	0.95
1:h:73:GLN:HB2	1:o:236:ILE:HD11	1.45	0.95
1:3:52:ILE:HG22	1:e:52:ILE:CG1	1.96	0.95
1:A:52:ILE:HG22	1:S:52:ILE:CG1	1.96	0.95
1:U:52:ILE:HG22	1:Y:52:ILE:CG1	1.96	0.95
1:4:52:ILE:CG1	1:H:52:ILE:HG22	1.96	0.95
1:6:52:ILE:HG22	1:T:52:ILE:CG1	1.96	0.95
1:A:545:ASP:OD2	1:k:156:SER:HB3	1.65	0.95
1:B:73:GLN:HB2	1:q:236:ILE:HD11	1.45	0.95
1:a:52:ILE:HG22	1:b:52:ILE:CG1	1.96	0.95
1:5:73:GLN:HB2	1:n:236:ILE:HD11	1.45	0.95
1:7:52:ILE:CG1	1:i:52:ILE:HG22	1.96	0.95
1:F:52:ILE:HG22	1:y:52:ILE:CG1	1.96	0.95
1:G:52:ILE:CG1	1:J:52:ILE:HG22	1.96	0.95
1:Q:52:ILE:CG1	1:u:52:ILE:HG22	1.96	0.95
1:S:52:ILE:HG22	1:k:52:ILE:CG1	1.96	0.95
1:O:52:ILE:HG22	1:6:52:ILE:CG1	1.96	0.95
1:4:48:LYS:O	1:H:56:GLN:OE1	1.85	0.95
1:7:52:ILE:HG22	1:B:52:ILE:CG1	1.96	0.95
1:A:52:ILE:CG1	1:k:52:ILE:HG22	1.96	0.95
1:B:156:SER:HB3	1:i:545:ASP:OD2	1.65	0.95
1:V:52:ILE:CG1	1:Y:52:ILE:HG22	1.96	0.95
1:W:52:ILE:HG22	1:q:52:ILE:CG1	1.96	0.95
1:W:236:ILE:HD11	1:f:73:GLN:HB2	1.45	0.95
1:b:156:SER:HB3	1:x:545:ASP:OD2	1.65	0.95
1:g:52:ILE:HG22	1:o:52:ILE:CG1	1.96	0.95
1:O:52:ILE:CG1	1:T:52:ILE:HG22	1.96	0.94
1:O:73:GLN:HB2	1:V:236:ILE:HD11	1.45	0.94
1:1:52:ILE:CG1	1:z:52:ILE:HG22	1.96	0.94
1:3:56:GLN:OE1	1:e:48:LYS:O	1.85	0.94
1:4:56:GLN:OE1	1:m:48:LYS:O	1.85	0.94
1:6:56:GLN:OE1	1:T:48:LYS:O	1.85	0.94
1:7:48:LYS:O	1:i:56:GLN:OE1	1.85	0.94
1:B:52:ILE:HG22	1:i:52:ILE:CG1	1.96	0.94
1:I:236:ILE:HD11	1:e:73:GLN:HB2	1.45	0.94
1:L:52:ILE:HG22	1:Z:52:ILE:CG1	1.96	0.94
1:M:56:GLN:OE1	1:j:48:LYS:O	1.85	0.94
1:Q:48:LYS:O	1:u:56:GLN:OE1	1.85	0.94
1:U:48:LYS:O	1:V:56:GLN:OE1	1.85	0.94
1:X:48:LYS:O	1:e:56:GLN:OE1	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:52:ILE:CG1	1:x:52:ILE:HG22	1.96	0.94
1:d:48:LYS:O	1:p:56:GLN:OE1	1.85	0.94
1:g:56:GLN:OE1	1:o:48:LYS:O	1.85	0.94
1:A:156:SER:HB3	1:S:545:ASP:OD2	1.65	0.94
1:D:73:GLN:HB2	1:Y:236:ILE:HD11	1.45	0.94
1:F:48:LYS:O	1:n:56:GLN:OE1	1.85	0.94
1:L:48:LYS:O	1:c:56:GLN:OE1	1.85	0.94
1:R:56:GLN:OE1	1:z:48:LYS:O	1.85	0.94
1:Z:56:GLN:OE1	1:c:48:LYS:O	1.85	0.94
1:a:156:SER:HB3	1:b:545:ASP:OD2	1.65	0.94
1:n:48:LYS:O	1:y:56:GLN:OE1	1.85	0.94
1:q:56:GLN:OE1	1:s:48:LYS:O	1.85	0.94
1:O:156:SER:HB3	1:6:545:ASP:OD2	1.65	0.94
1:3:48:LYS:O	1:X:56:GLN:OE1	1.85	0.94
1:4:73:GLN:HB2	1:h:236:ILE:HD11	1.45	0.94
1:K:56:GLN:OE1	1:g:48:LYS:O	1.85	0.94
1:l:56:GLN:OE1	1:u:48:LYS:O	1.85	0.94
1:r:52:ILE:CG1	1:t:52:ILE:HG22	1.96	0.94
1:t:48:LYS:O	1:w:56:GLN:OE1	1.85	0.94
1:D:48:LYS:O	1:j:56:GLN:OE1	1.85	0.94
1:H:48:LYS:O	1:m:56:GLN:OE1	1.85	0.94
1:L:52:ILE:CG1	1:c:52:ILE:HG22	1.97	0.94
1:V:48:LYS:O	1:Y:56:GLN:OE1	1.85	0.94
1:d:56:GLN:OE1	1:f:48:LYS:O	1.85	0.94
1:r:52:ILE:HG22	1:w:52:ILE:CG1	1.96	0.94
1:1:52:ILE:HG22	1:R:52:ILE:CG1	1.96	0.94
1:H:52:ILE:CG1	1:m:52:ILE:HG22	1.96	0.94
1:W:56:GLN:OE1	1:q:48:LYS:O	1.85	0.94
1:d:52:ILE:HG22	1:f:52:ILE:CG1	1.96	0.94
1:O:48:LYS:O	1:T:56:GLN:OE1	1.85	0.94
1:7:56:GLN:OE1	1:B:48:LYS:O	1.85	0.94
1:F:52:ILE:CG1	1:n:52:ILE:HG22	1.96	0.94
1:3:52:ILE:CG1	1:X:52:ILE:HG22	1.96	0.94
1:5:56:GLN:OE1	1:v:48:LYS:O	1.85	0.94
1:D:52:ILE:CG1	1:j:52:ILE:HG22	1.96	0.94
1:W:48:LYS:O	1:s:56:GLN:OE1	1.85	0.94
1:l:52:ILE:HG22	1:u:52:ILE:CG1	1.96	0.94
1:B:56:GLN:OE1	1:i:48:LYS:O	1.85	0.94
1:C:52:ILE:CG1	1:G:52:ILE:HG22	1.96	0.94
1:E:52:ILE:CG1	1:v:52:ILE:HG22	1.96	0.94
1:G:48:LYS:O	1:J:56:GLN:OE1	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:52:ILE:CG1	1:o:52:ILE:HG22	1.96	0.94
1:K:52:ILE:HG22	1:g:52:ILE:CG1	1.96	0.94
1:Q:52:ILE:HG22	1:l:52:ILE:CG1	1.96	0.94
1:U:56:GLN:OE1	1:Y:48:LYS:O	1.85	0.94
1:f:52:ILE:HG22	1:p:52:ILE:CG1	1.96	0.94
1:O:56:GLN:OE1	1:6:48:LYS:O	1.85	0.94
1:2:56:GLN:OE1	1:h:48:LYS:O	1.85	0.94
1:D:52:ILE:HG22	1:M:52:ILE:CG1	1.96	0.94
1:L:56:GLN:OE1	1:Z:48:LYS:O	1.85	0.94
1:b:56:GLN:OE1	1:x:48:LYS:O	1.85	0.94
1:t:52:ILE:CG1	1:w:52:ILE:HG22	1.96	0.94
1:A:56:GLN:OE1	1:S:48:LYS:O	1.85	0.94
1:F:56:GLN:OE1	1:y:48:LYS:O	1.85	0.94
1:R:52:ILE:HG22	1:z:52:ILE:CG1	1.96	0.94
1:a:56:GLN:OE1	1:b:48:LYS:O	1.85	0.94
1:I:48:LYS:O	1:N:56:GLN:OE1	1.85	0.93
1:A:48:LYS:O	1:k:56:GLN:OE1	1.85	0.93
1:O:48:LYS:O	1:h:56:GLN:OE1	1.85	0.93
1:I:56:GLN:OE1	1:P:48:LYS:O	1.85	0.93
1:S:56:GLN:OE1	1:k:48:LYS:O	1.85	0.93
1:3:550:SER:C	1:x:125:THR:HG21	1.94	0.93
1:a:48:LYS:O	1:x:56:GLN:OE1	1.85	0.93
1:7:550:SER:C	1:N:125:THR:HG21	1.94	0.93
1:H:550:SER:C	1:S:125:THR:HG21	1.94	0.93
1:1:48:LYS:O	1:z:56:GLN:OE1	1.85	0.93
1:2:125:THR:HG21	1:T:550:SER:C	1.94	0.93
1:4:125:THR:HG21	1:O:550:SER:C	1.94	0.93
1:K:48:LYS:O	1:o:56:GLN:OE1	1.85	0.93
1:P:550:SER:C	1:e:125:THR:HG21	1.94	0.93
1:2:550:SER:C	1:T:125:THR:HG21	1.94	0.93
1:B:125:THR:HG21	1:s:550:SER:C	1.94	0.93
1:R:550:SER:C	1:y:125:THR:HG21	1.94	0.93
1:Z:125:THR:HG21	1:w:550:SER:C	1.94	0.93
1:r:48:LYS:O	1:t:56:GLN:OE1	1.85	0.93
1:O:125:THR:HG21	1:U:550:SER:C	1.94	0.93
1:7:125:THR:HG21	1:N:550:SER:C	1.94	0.93
1:Q:56:GLN:OE1	1:l:48:LYS:O	1.85	0.93
1:i:125:THR:HG21	1:n:550:SER:C	1.94	0.92
1:5:48:LYS:O	1:E:56:GLN:OE1	1.85	0.92
1:6:125:THR:HG21	1:c:550:SER:C	1.94	0.92
1:D:550:SER:C	1:V:125:THR:HG21	1.94	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:550:SER:C	1:l:125:THR:HG21	1.94	0.92
1:f:550:SER:C	1:q:125:THR:HG21	1.94	0.92
1:r:56:GLN:OE1	1:w:48:LYS:O	1.85	0.92
1:l:56:GLN:OE1	1:R:48:LYS:O	1.85	0.92
1:C:56:GLN:OE1	1:J:48:LYS:O	1.85	0.92
1:K:125:THR:HG21	1:h:550:SER:C	1.94	0.92
1:D:125:THR:HG21	1:V:550:SER:C	1.94	0.92
1:H:125:THR:HG21	1:S:550:SER:C	1.94	0.92
1:3:125:THR:HG21	1:x:550:SER:C	1.94	0.92
1:X:550:SER:C	1:t:125:THR:HG21	1.94	0.92
1:f:125:THR:HG21	1:q:550:SER:C	1.94	0.92
1:m:550:SER:C	1:z:125:THR:HG21	1.94	0.92
1:l:125:THR:HG21	1:u:550:SER:C	1.94	0.92
1:D:56:GLN:OE1	1:M:48:LYS:O	1.85	0.92
1:d:125:THR:HG21	1:v:550:SER:C	1.94	0.92
1:G:125:THR:HG21	1:j:550:SER:C	1.94	0.92
1:Q:125:THR:HG21	1:o:550:SER:C	1.94	0.92
1:f:56:GLN:OE1	1:p:48:LYS:O	1.85	0.92
1:g:550:SER:C	1:r:125:THR:HG21	1.94	0.92
1:2:48:LYS:O	1:O:56:GLN:OE1	1.85	0.92
1:A:550:SER:C	1:Y:125:THR:HG21	1.94	0.92
1:E:48:LYS:O	1:v:56:GLN:OE1	1.85	0.92
1:G:550:SER:C	1:j:125:THR:HG21	1.94	0.92
1:M:550:SER:C	1:p:125:THR:HG21	1.94	0.92
1:N:48:LYS:O	1:P:56:GLN:OE1	1.85	0.92
1:Q:550:SER:C	1:o:125:THR:HG21	1.94	0.92
1:M:125:THR:HG21	1:p:550:SER:C	1.94	0.92
1:d:550:SER:C	1:v:125:THR:HG21	1.94	0.92
1:C:48:LYS:O	1:G:56:GLN:OE1	1.85	0.91
1:C:550:SER:C	1:a:125:THR:HG21	1.94	0.91
1:W:125:THR:HG21	1:b:550:SER:C	1.94	0.91
1:4:550:SER:C	1:O:125:THR:HG21	1.94	0.91
1:5:550:SER:C	1:F:125:THR:HG21	1.94	0.91
1:J:550:SER:C	1:L:125:THR:HG21	1.94	0.91
1:E:550:SER:C	1:k:125:THR:HG21	1.94	0.91
1:W:73:GLN:HE21	1:a:239:ARG:NH2	1.69	0.91
1:G:125:THR:HG22	1:j:551:THR:HG23	1.53	0.91
1:I:125:THR:HG21	1:l:550:SER:C	1.94	0.91
1:P:125:THR:HG21	1:e:550:SER:C	1.94	0.91
1:W:550:SER:C	1:b:125:THR:HG21	1.94	0.91
1:Y:73:GLN:HE21	1:k:239:ARG:NH2	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:THR:HG21	1:Y:550:SER:C	1.94	0.91
1:C:125:THR:HG21	1:a:550:SER:C	1.94	0.91
1:E:125:THR:HG21	1:k:550:SER:C	1.94	0.91
1:I:551:THR:HG23	1:l:125:THR:HG22	1.53	0.91
1:J:125:THR:HG22	1:L:551:THR:HG23	1.53	0.91
1:K:125:THR:HG22	1:h:551:THR:HG23	1.53	0.91
1:K:550:SER:C	1:h:125:THR:HG21	1.94	0.91
1:M:125:THR:HG22	1:p:551:THR:HG23	1.53	0.91
1:M:551:THR:HG23	1:p:125:THR:HG22	1.53	0.91
1:R:125:THR:HG21	1:y:550:SER:C	1.94	0.91
1:d:551:THR:HG23	1:v:125:THR:HG22	1.53	0.91
1:5:125:THR:HG22	1:F:551:THR:HG23	1.53	0.91
1:5:239:ARG:NH2	1:d:73:GLN:HE21	1.69	0.91
1:7:551:THR:HG23	1:N:125:THR:HG22	1.53	0.91
1:m:125:THR:HG21	1:z:550:SER:C	1.94	0.91
1:5:125:THR:HG21	1:F:550:SER:C	1.94	0.91
1:C:125:THR:HG22	1:a:551:THR:HG23	1.53	0.91
1:S:73:GLN:HE21	1:m:239:ARG:NH2	1.69	0.91
1:W:551:THR:HG23	1:b:125:THR:HG22	1.53	0.91
1:X:125:THR:HG22	1:t:551:THR:HG23	1.53	0.91
1:Z:550:SER:C	1:w:125:THR:HG21	1.94	0.91
1:m:125:THR:HG22	1:z:551:THR:HG23	1.53	0.91
1:1:561:TYR:HE1	1:l:157:LEU:HD21	1.08	0.91
1:2:125:THR:HG22	1:T:551:THR:HG23	1.53	0.91
1:6:550:SER:C	1:c:125:THR:HG21	1.94	0.91
1:J:125:THR:HG21	1:L:550:SER:C	1.94	0.91
1:X:125:THR:HG21	1:t:550:SER:C	1.94	0.91
1:A:125:THR:HG22	1:Y:551:THR:HG23	1.53	0.91
1:H:551:THR:HG23	1:S:125:THR:HG22	1.53	0.91
1:J:239:ARG:NH2	1:j:73:GLN:HE21	1.69	0.91
1:K:157:LEU:HD21	1:r:561:TYR:HE1	1.08	0.91
1:0:550:SER:C	1:U:125:THR:HG21	1.94	0.91
1:3:551:THR:HG23	1:x:125:THR:HG22	1.53	0.91
1:E:125:THR:HG22	1:k:551:THR:HG23	1.53	0.91
1:X:239:ARG:NH2	1:x:73:GLN:HE21	1.69	0.91
1:i:550:SER:C	1:n:125:THR:HG21	1.94	0.91
1:3:561:TYR:HE1	1:b:157:LEU:HD21	1.08	0.90
1:A:157:LEU:HD21	1:H:561:TYR:HE1	1.08	0.90
1:R:551:THR:HG23	1:y:125:THR:HG22	1.53	0.90
1:X:551:THR:HG23	1:t:125:THR:HG22	1.53	0.90
1:Z:125:THR:HG22	1:w:551:THR:HG23	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:125:THR:HG22	1:q:551:THR:HG23	1.53	0.90
1:m:551:THR:HG23	1:z:125:THR:HG22	1.53	0.90
1:B:550:SER:C	1:s:125:THR:HG21	1.94	0.90
1:D:125:THR:HG22	1:V:551:THR:HG23	1.53	0.90
1:H:125:THR:HG22	1:S:551:THR:HG23	1.53	0.90
1:O:551:THR:HG23	1:U:125:THR:HG22	1.53	0.90
1:D:73:GLN:HE21	1:Y:239:ARG:NH2	1.68	0.90
1:3:125:THR:HG22	1:x:551:THR:HG23	1.53	0.90
1:5:551:THR:HG23	1:F:125:THR:HG22	1.53	0.90
1:A:551:THR:HG23	1:Y:125:THR:HG22	1.53	0.90
1:B:551:THR:HG23	1:s:125:THR:HG22	1.53	0.90
1:W:239:ARG:NH2	1:f:73:GLN:HE21	1.68	0.90
1:g:125:THR:HG21	1:r:550:SER:C	1.94	0.90
1:i:125:THR:HG22	1:n:551:THR:HG23	1.53	0.90
1:6:125:THR:HG22	1:c:551:THR:HG23	1.53	0.90
1:I:157:LEU:HD21	1:e:561:TYR:HE1	1.08	0.90
1:I:239:ARG:NH2	1:e:73:GLN:HE21	1.69	0.90
1:J:551:THR:HG23	1:L:125:THR:HG22	1.53	0.90
1:P:125:THR:HG22	1:e:551:THR:HG23	1.53	0.90
1:W:125:THR:HG22	1:b:551:THR:HG23	1.53	0.90
1:l:550:SER:C	1:u:125:THR:HG21	1.94	0.90
1:4:551:THR:HG23	1:O:125:THR:HG22	1.53	0.90
1:4:561:TYR:HE1	1:h:157:LEU:HD21	1.08	0.90
1:H:239:ARG:NH2	1:O:73:GLN:HE21	1.69	0.90
1:P:551:THR:HG23	1:e:125:THR:HG22	1.53	0.90
1:4:125:THR:HG22	1:O:551:THR:HG23	1.53	0.90
1:G:551:THR:HG23	1:j:125:THR:HG22	1.53	0.90
1:J:157:LEU:HD21	1:j:561:TYR:HE1	1.08	0.90
1:4:73:GLN:HE21	1:h:239:ARG:NH2	1.69	0.90
1:7:239:ARG:NH2	1:s:73:GLN:HE21	1.69	0.90
1:E:157:LEU:HD21	1:F:561:TYR:HE1	1.08	0.90
1:J:73:GLN:HE21	1:c:239:ARG:NH2	1.69	0.90
1:i:73:GLN:HE21	1:y:239:ARG:NH2	1.69	0.90
1:o:561:TYR:HE1	1:u:157:LEU:HD21	1.08	0.90
1:B:561:TYR:HE1	1:q:157:LEU:HD21	1.08	0.89
1:T:239:ARG:NH2	1:U:73:GLN:HE21	1.69	0.89
1:d:125:THR:HG22	1:v:551:THR:HG23	1.53	0.89
1:3:239:ARG:NH2	1:P:73:GLN:HE21	1.69	0.89
1:5:157:LEU:HD21	1:d:561:TYR:HE1	1.08	0.89
1:6:73:GLN:HE21	1:Z:239:ARG:NH2	1.69	0.89
1:C:157:LEU:HD21	1:L:561:TYR:HE1	1.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:239:ARG:NH2	1:R:73:GLN:HE21	1.69	0.89
1:B:239:ARG:NH2	1:n:73:GLN:HE21	1.69	0.89
1:h:561:TYR:HE1	1:o:157:LEU:HD21	1.08	0.89
1:0:561:TYR:HE1	1:V:157:LEU:HD21	1.08	0.89
1:5:73:GLN:HE21	1:n:239:ARG:NH2	1.69	0.89
1:A:561:TYR:HE1	1:U:157:LEU:HD21	1.08	0.89
1:L:239:ARG:NH2	1:w:73:GLN:HE21	1.69	0.89
1:Q:561:TYR:HE1	1:g:157:LEU:HD21	1.08	0.89
1:6:561:TYR:HE1	1:Z:157:LEU:HD21	1.08	0.89
1:X:157:LEU:CD2	1:x:561:TYR:HE1	1.73	0.89
1:f:551:THR:HG23	1:q:125:THR:HG22	1.53	0.89
1:0:239:ARG:NH2	1:c:73:GLN:HE21	1.69	0.89
1:4:157:LEU:HD21	1:z:561:TYR:HE1	1.08	0.89
1:E:551:THR:HG23	1:k:125:THR:HG22	1.53	0.89
1:b:561:TYR:HE1	1:s:157:LEU:HD21	1.08	0.89
1:e:157:LEU:HD21	1:t:561:TYR:HE1	1.08	0.89
1:2:551:THR:HG23	1:T:125:THR:HG22	1.53	0.89
1:5:560:THR:OG1	1:F:212:PHE:CG	2.26	0.89
1:6:212:PHE:CG	1:c:560:THR:OG1	2.26	0.89
1:7:125:THR:HG22	1:N:551:THR:HG23	1.53	0.89
1:C:551:THR:HG23	1:a:125:THR:HG22	1.53	0.89
1:E:561:TYR:HE1	1:S:157:LEU:HD21	1.08	0.89
1:I:561:TYR:HE1	1:Q:157:LEU:HD21	1.08	0.89
1:J:560:THR:OG1	1:L:212:PHE:CG	2.26	0.89
1:i:561:TYR:HE1	1:y:157:LEU:HD21	1.08	0.89
1:7:157:LEU:HD21	1:s:561:TYR:HE1	1.08	0.89
1:I:127:THR:HG22	1:l:552:ILE:CG1	2.03	0.89
1:K:52:ILE:HG22	1:g:52:ILE:HG13	1.55	0.89
1:K:552:ILE:CG1	1:h:127:THR:HG22	2.03	0.89
1:X:561:TYR:HE1	1:w:157:LEU:HD21	1.08	0.89
1:i:212:PHE:CG	1:n:560:THR:OG1	2.26	0.89
1:1:212:PHE:CG	1:u:560:THR:OG1	2.26	0.89
1:2:127:THR:HG22	1:T:552:ILE:CG1	2.03	0.89
1:2:212:PHE:CZ	1:T:560:THR:OG1	2.26	0.89
1:7:560:THR:OG1	1:N:212:PHE:CZ	2.26	0.89
1:B:242:SER:CB	1:n:94:LYS:H	1.85	0.89
1:G:212:PHE:CG	1:j:560:THR:OG1	2.26	0.89
1:W:94:LYS:H	1:a:242:SER:CB	1.85	0.89
1:g:560:THR:OG1	1:r:212:PHE:CG	2.26	0.89
1:0:242:SER:CB	1:c:94:LYS:H	1.85	0.89
1:0:560:THR:OG1	1:U:212:PHE:CG	2.26	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:560:THR:OG1	1:c:212:PHE:CG	2.26	0.89
1:7:552:ILE:CG1	1:N:127:THR:HG22	2.03	0.89
1:A:560:THR:OG1	1:Y:212:PHE:CG	2.26	0.89
1:B:560:THR:OG1	1:s:212:PHE:CG	2.26	0.89
1:D:551:THR:HG23	1:V:125:THR:HG22	1.53	0.89
1:G:552:ILE:CG1	1:j:127:THR:HG22	2.03	0.89
1:K:551:THR:HG23	1:h:125:THR:HG22	1.53	0.89
1:R:157:LEU:HD21	1:m:561:TYR:HE1	1.08	0.89
1:W:561:TYR:HE1	1:a:157:LEU:HD21	1.08	0.89
1:d:127:THR:HG22	1:v:552:ILE:CG1	2.03	0.89
1:d:560:THR:OG1	1:v:212:PHE:CG	2.26	0.89
1:i:127:THR:HG22	1:n:552:ILE:CG1	2.03	0.89
1:i:560:THR:OG1	1:n:212:PHE:CG	2.26	0.89
1:4:560:THR:OG1	1:O:212:PHE:CZ	2.26	0.88
1:5:552:ILE:CG1	1:F:127:THR:HG22	2.03	0.88
1:6:127:THR:HG22	1:c:552:ILE:CG1	2.03	0.88
1:C:561:TYR:HE1	1:x:157:LEU:HD21	1.08	0.88
1:I:125:THR:HG22	1:l:551:THR:HG23	1.53	0.88
1:I:212:PHE:CZ	1:l:560:THR:OG1	2.26	0.88
1:P:212:PHE:CG	1:e:560:THR:OG1	2.26	0.88
1:R:127:THR:HG22	1:y:552:ILE:CG1	2.03	0.88
1:W:212:PHE:CG	1:b:560:THR:OG1	2.26	0.88
1:Y:94:LYS:H	1:k:242:SER:CB	1.85	0.88
1:Z:552:ILE:CG1	1:w:127:THR:HG22	2.03	0.88
1:4:560:THR:OG1	1:O:212:PHE:CG	2.26	0.88
1:B:125:THR:HG22	1:s:551:THR:HG23	1.53	0.88
1:J:212:PHE:CZ	1:L:560:THR:OG1	2.26	0.88
1:K:560:THR:OG1	1:h:212:PHE:CZ	2.26	0.88
1:i:552:ILE:CG1	1:n:127:THR:HG22	2.03	0.88
1:l:190:LYS:HZ1	1:l:190:LYS:HD3	1.39	0.88
1:5:212:PHE:CG	1:F:560:THR:OG1	2.26	0.88
1:5:212:PHE:CZ	1:F:560:THR:OG1	2.26	0.88
1:C:560:THR:OG1	1:a:212:PHE:CG	2.26	0.88
1:E:560:THR:OG1	1:k:212:PHE:CG	2.26	0.88
1:J:127:THR:HG22	1:L:552:ILE:CG1	2.03	0.88
1:J:552:ILE:CG1	1:L:127:THR:HG22	2.03	0.88
1:P:212:PHE:CZ	1:e:560:THR:OG1	2.26	0.88
1:Q:551:THR:HG23	1:o:125:THR:HG22	1.53	0.88
1:T:157:LEU:HD21	1:U:561:TYR:HE1	1.08	0.88
1:Y:561:TYR:HE1	1:k:157:LEU:HD21	1.08	0.88
1:g:212:PHE:CG	1:r:560:THR:OG1	2.26	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:125:THR:HG22	1:U:551:THR:HG23	1.53	0.88
1:1:212:PHE:CZ	1:u:560:THR:OG1	2.26	0.88
1:1:560:THR:OG1	1:u:212:PHE:CG	2.26	0.88
1:5:127:THR:HG22	1:F:552:ILE:CG1	2.03	0.88
1:6:552:ILE:CG1	1:c:127:THR:HG22	2.03	0.88
1:J:212:PHE:CG	1:L:560:THR:OG1	2.26	0.88
1:M:560:THR:OG1	1:p:212:PHE:CG	2.26	0.88
1:d:212:PHE:CG	1:v:560:THR:OG1	2.26	0.88
1:g:125:THR:HG22	1:r:551:THR:HG23	1.53	0.88
1:g:560:THR:OG1	1:r:212:PHE:CZ	2.26	0.88
1:p:242:SER:CB	1:v:94:LYS:H	1.85	0.88
1:1:551:THR:HG23	1:u:125:THR:HG22	1.53	0.88
1:1:552:ILE:CG1	1:u:127:THR:HG22	2.03	0.88
1:4:212:PHE:CG	1:O:560:THR:OG1	2.26	0.88
1:6:560:THR:OG1	1:c:212:PHE:CZ	2.26	0.88
1:E:212:PHE:CG	1:k:560:THR:OG1	2.26	0.88
1:K:239:ARG:NH2	1:r:73:GLN:HE21	1.69	0.88
1:O:157:LEU:HD21	1:T:561:TYR:HE1	1.08	0.88
1:P:560:THR:OG1	1:e:212:PHE:CG	2.26	0.88
1:Q:125:THR:HG22	1:o:551:THR:HG23	1.53	0.88
1:R:560:THR:OG1	1:y:212:PHE:CZ	2.26	0.88
1:S:52:ILE:HG22	1:k:52:ILE:HG13	1.55	0.88
1:X:94:LYS:H	1:w:242:SER:CB	1.85	0.88
1:Z:212:PHE:CZ	1:w:560:THR:OG1	2.26	0.88
1:a:52:ILE:HG13	1:x:52:ILE:HG22	1.55	0.88
1:m:560:THR:OG1	1:z:212:PHE:CG	2.26	0.88
1:1:242:SER:CB	1:y:94:LYS:H	1.85	0.88
1:3:52:ILE:HG13	1:X:52:ILE:HG22	1.55	0.88
1:3:212:PHE:CG	1:x:560:THR:OG1	2.26	0.88
1:5:244:ASN:ND2	1:d:93:GLU:CD	2.32	0.88
1:B:552:ILE:CG1	1:s:127:THR:HG22	2.03	0.88
1:C:212:PHE:CG	1:a:560:THR:OG1	2.26	0.88
1:G:127:THR:HG22	1:j:552:ILE:CG1	2.03	0.88
1:G:560:THR:OG1	1:j:212:PHE:CG	2.26	0.88
1:H:212:PHE:CG	1:S:560:THR:OG1	2.26	0.88
1:H:560:THR:OG1	1:S:212:PHE:CG	2.26	0.88
1:J:244:ASN:ND2	1:j:93:GLU:CD	2.32	0.88
1:K:212:PHE:CZ	1:h:560:THR:OG1	2.26	0.88
1:M:212:PHE:CG	1:p:560:THR:OG1	2.26	0.88
1:R:239:ARG:NH2	1:m:73:GLN:HE21	1.68	0.88
1:R:242:SER:CB	1:m:94:LYS:H	1.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:THR:HG22	1:b:552:ILE:CG1	2.03	0.88
1:X:73:GLN:HE21	1:w:239:ARG:NH2	1.68	0.88
1:X:560:THR:OG1	1:t:212:PHE:CG	2.26	0.88
1:d:552:ILE:CG1	1:v:127:THR:HG22	2.03	0.88
1:g:127:THR:HG22	1:r:552:ILE:CG1	2.03	0.88
1:g:552:ILE:CG1	1:r:127:THR:HG22	2.03	0.88
1:i:560:THR:OG1	1:n:212:PHE:CZ	2.26	0.88
1:l:73:GLN:HE21	1:l:239:ARG:NH2	1.69	0.88
1:l:127:THR:HG22	1:u:552:ILE:CG1	2.03	0.88
1:l:244:ASN:ND2	1:y:93:GLU:CD	2.32	0.88
1:4:93:GLU:CD	1:h:244:ASN:ND2	2.32	0.88
1:4:127:THR:HG22	1:O:552:ILE:CG1	2.03	0.88
1:A:127:THR:HG22	1:Y:552:ILE:CG1	2.03	0.88
1:A:552:ILE:CG1	1:Y:127:THR:CB	2.52	0.88
1:A:552:ILE:CG1	1:Y:127:THR:HG22	2.03	0.88
1:C:93:GLU:CD	1:x:244:ASN:ND2	2.32	0.88
1:D:561:TYR:HE1	1:Y:157:LEU:HD21	1.08	0.88
1:E:93:GLU:CD	1:S:244:ASN:ND2	2.32	0.88
1:G:94:LYS:H	1:M:242:SER:CB	1.85	0.88
1:H:52:ILE:HG13	1:m:52:ILE:HG22	1.55	0.88
1:I:73:GLN:HE21	1:Q:239:ARG:NH2	1.69	0.88
1:I:93:GLU:CD	1:Q:244:ASN:ND2	2.32	0.88
1:I:244:ASN:ND2	1:e:93:GLU:CD	2.32	0.88
1:I:552:ILE:CG1	1:l:127:THR:CB	2.52	0.88
1:I:560:THR:OG1	1:l:212:PHE:CZ	2.26	0.88
1:K:127:THR:CB	1:h:552:ILE:CG1	2.52	0.88
1:R:125:THR:HG22	1:y:551:THR:HG23	1.53	0.88
1:S:93:GLU:CD	1:m:244:ASN:ND2	2.32	0.88
1:X:244:ASN:ND2	1:x:93:GLU:CD	2.32	0.88
1:Z:93:GLU:CD	1:r:244:ASN:ND2	2.32	0.88
1:Z:94:LYS:H	1:r:242:SER:CB	1.85	0.88
1:h:93:GLU:CD	1:o:244:ASN:ND2	2.32	0.88
1:O:552:ILE:CG1	1:U:127:THR:HG22	2.03	0.88
1:l:52:ILE:HG13	1:z:52:ILE:HG22	1.55	0.88
1:l:93:GLU:CD	1:l:244:ASN:ND2	2.32	0.88
1:3:244:ASN:ND2	1:P:93:GLU:CD	2.32	0.88
1:3:560:THR:OG1	1:x:212:PHE:CG	2.26	0.88
1:7:561:TYR:HE1	1:P:157:LEU:HD21	1.08	0.88
1:A:127:THR:CB	1:Y:552:ILE:CG1	2.52	0.88
1:C:212:PHE:CZ	1:a:560:THR:OG1	2.26	0.88
1:C:552:ILE:CG1	1:a:127:THR:HG22	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:52:ILE:HG13	1:v:52:ILE:HG22	1.55	0.88
1:E:127:THR:CB	1:k:552:ILE:CG1	2.52	0.88
1:E:212:PHE:CZ	1:k:560:THR:OG1	2.26	0.88
1:M:93:GLU:CD	1:f:244:ASN:ND2	2.32	0.88
1:M:561:TYR:HE1	1:f:157:LEU:HD21	1.08	0.88
1:N:73:GLN:HE21	1:i:239:ARG:NH2	1.69	0.88
1:Q:127:THR:HG22	1:o:552:ILE:CG1	2.03	0.88
1:W:127:THR:CB	1:b:552:ILE:CG1	2.52	0.88
1:W:552:ILE:CG1	1:b:127:THR:HG22	2.03	0.88
1:Z:212:PHE:CG	1:w:560:THR:OG1	2.26	0.88
1:Z:551:THR:HG23	1:w:125:THR:HG22	1.53	0.88
1:k:561:TYR:HE1	1:v:157:LEU:HD21	1.08	0.88
1:r:52:ILE:HG13	1:t:52:ILE:HG22	1.55	0.88
1:1:560:THR:OG1	1:u:212:PHE:CZ	2.26	0.88
1:2:93:GLU:CD	1:6:244:ASN:ND2	2.32	0.88
1:2:157:LEU:HD21	1:K:561:TYR:HE1	1.08	0.88
1:4:52:ILE:HG22	1:m:52:ILE:HG13	1.55	0.88
1:5:93:GLU:CD	1:n:244:ASN:ND2	2.32	0.88
1:C:52:ILE:HG13	1:G:52:ILE:HG22	1.55	0.88
1:C:127:THR:CB	1:a:552:ILE:CG1	2.52	0.88
1:D:157:LEU:CD2	1:p:561:TYR:HE1	1.73	0.88
1:D:244:ASN:ND2	1:p:93:GLU:CD	2.32	0.88
1:E:552:ILE:CG1	1:k:127:THR:HG22	2.03	0.88
1:J:93:GLU:CD	1:c:244:ASN:ND2	2.32	0.88
1:Q:560:THR:OG1	1:o:212:PHE:CG	2.26	0.88
1:U:52:ILE:HG22	1:Y:52:ILE:HG13	1.55	0.88
1:W:157:LEU:HD21	1:f:561:TYR:HE1	1.08	0.88
1:W:552:ILE:CG1	1:b:127:THR:CB	2.52	0.88
1:f:560:THR:OG1	1:q:212:PHE:CG	2.26	0.88
1:g:551:THR:HG23	1:r:125:THR:HG22	1.53	0.88
1:i:127:THR:CB	1:n:552:ILE:CG1	2.52	0.88
1:0:212:PHE:CZ	1:U:560:THR:OG1	2.26	0.88
1:1:125:THR:HG22	1:u:551:THR:HG23	1.53	0.88
1:3:157:LEU:HD21	1:P:561:TYR:HE1	1.08	0.88
1:3:560:THR:OG1	1:x:212:PHE:CZ	2.26	0.88
1:4:52:ILE:HG13	1:H:52:ILE:HG22	1.55	0.88
1:5:52:ILE:HG22	1:v:52:ILE:HG13	1.55	0.88
1:6:127:THR:CB	1:c:552:ILE:CG1	2.52	0.88
1:7:244:ASN:ND2	1:s:93:GLU:CD	2.32	0.88
1:A:239:ARG:NH2	1:H:73:GLN:HE21	1.69	0.88
1:B:73:GLN:HE21	1:q:239:ARG:NH2	1.68	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:ASN:ND2	1:n:93:GLU:CD	2.32	0.88
1:C:244:ASN:ND2	1:L:93:GLU:CD	2.32	0.88
1:D:552:ILE:CG1	1:V:127:THR:HG22	2.03	0.88
1:D:560:THR:OG1	1:V:212:PHE:CG	2.26	0.88
1:E:244:ASN:ND2	1:F:93:GLU:CD	2.32	0.88
1:G:52:ILE:HG13	1:J:52:ILE:HG22	1.55	0.88
1:H:212:PHE:CZ	1:S:560:THR:OG1	2.26	0.88
1:H:244:ASN:ND2	1:O:93:GLU:CD	2.32	0.88
1:K:244:ASN:ND2	1:r:93:GLU:CD	2.32	0.88
1:M:212:PHE:CZ	1:p:560:THR:OG1	2.26	0.88
1:N:93:GLU:CD	1:i:244:ASN:ND2	2.32	0.88
1:P:552:ILE:CG1	1:e:127:THR:CB	2.52	0.88
1:Q:552:ILE:CG1	1:o:127:THR:HG22	2.03	0.88
1:Q:560:THR:OG1	1:o:212:PHE:CZ	2.26	0.88
1:R:560:THR:OG1	1:y:212:PHE:CG	2.26	0.88
1:W:93:GLU:CD	1:a:244:ASN:ND2	2.32	0.88
1:X:52:ILE:HG13	1:e:52:ILE:HG22	1.55	0.88
1:Y:93:GLU:CD	1:k:244:ASN:ND2	2.32	0.88
1:Z:560:THR:OG1	1:w:212:PHE:CG	2.26	0.88
1:d:560:THR:OG1	1:v:212:PHE:CZ	2.26	0.88
1:g:94:LYS:H	1:t:242:SER:CB	1.85	0.88
1:h:73:GLN:HE21	1:o:239:ARG:NH2	1.69	0.88
1:k:73:GLN:HE21	1:v:239:ARG:NH2	1.69	0.88
1:0:93:GLU:CD	1:V:244:ASN:ND2	2.32	0.87
1:0:244:ASN:ND2	1:c:93:GLU:CD	2.32	0.87
1:2:244:ASN:ND2	1:K:93:GLU:CD	2.32	0.87
1:3:551:THR:CG2	1:x:125:THR:HG22	2.05	0.87
1:4:127:THR:CB	1:O:552:ILE:CG1	2.52	0.87
1:B:93:GLU:CD	1:q:244:ASN:ND2	2.32	0.87
1:D:52:ILE:HG13	1:j:52:ILE:HG22	1.55	0.87
1:D:242:SER:CB	1:p:94:LYS:H	1.85	0.87
1:G:239:ARG:NH2	1:a:73:GLN:HE21	1.69	0.87
1:H:551:THR:CG2	1:S:125:THR:HG22	2.05	0.87
1:H:560:THR:OG1	1:S:212:PHE:CZ	2.26	0.87
1:K:105:ASN:CG	1:K:159:LEU:HD11	2.00	0.87
1:M:560:THR:OG1	1:p:212:PHE:CZ	2.26	0.87
1:N:244:ASN:ND2	1:l:93:GLU:CD	2.32	0.87
1:Q:212:PHE:CG	1:o:560:THR:OG1	2.26	0.87
1:Q:212:PHE:CZ	1:o:560:THR:OG1	2.26	0.87
1:T:244:ASN:ND2	1:U:93:GLU:CD	2.32	0.87
1:W:52:ILE:HG13	1:s:52:ILE:HG22	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:212:PHE:CG	1:t:560:THR:OG1	2.26	0.87
1:Z:127:THR:HG22	1:w:552:ILE:CG1	2.03	0.87
1:d:125:THR:HG22	1:v:551:THR:CG2	2.04	0.87
1:f:105:ASN:CG	1:f:159:LEU:HD11	2.00	0.87
1:g:212:PHE:CZ	1:r:560:THR:OG1	2.26	0.87
1:l:105:ASN:CG	1:l:159:LEU:HD11	2.00	0.87
1:r:52:ILE:HG22	1:w:52:ILE:HG13	1.55	0.87
1:0:52:ILE:HG22	1:6:52:ILE:HG13	1.55	0.87
1:0:52:ILE:HG13	1:T:52:ILE:HG22	1.55	0.87
1:0:73:GLN:HE21	1:V:239:ARG:NH2	1.68	0.87
1:2:73:GLN:HE21	1:6:239:ARG:NH2	1.69	0.87
1:2:212:PHE:CG	1:T:560:THR:OG1	2.26	0.87
1:3:212:PHE:CZ	1:x:560:THR:OG1	2.26	0.87
1:4:105:ASN:CG	1:4:159:LEU:HD11	2.00	0.87
1:7:52:ILE:HG22	1:B:52:ILE:HG13	1.55	0.87
1:7:560:THR:OG1	1:N:212:PHE:CG	2.26	0.87
1:A:125:THR:HG22	1:Y:551:THR:CG2	2.05	0.87
1:A:212:PHE:CZ	1:Y:560:THR:OG1	2.26	0.87
1:B:212:PHE:CZ	1:s:560:THR:OG1	2.26	0.87
1:E:190:LYS:HD3	1:F:190:LYS:HZ1	1.39	0.87
1:G:157:LEU:HD21	1:a:561:TYR:HE1	1.08	0.87
1:G:212:PHE:CZ	1:j:560:THR:OG1	2.26	0.87
1:G:551:THR:CG2	1:j:125:THR:HG22	2.04	0.87
1:G:552:ILE:CG1	1:j:127:THR:CB	2.52	0.87
1:H:157:LEU:HD21	1:O:561:TYR:HE1	1.08	0.87
1:M:94:LYS:H	1:f:242:SER:CB	1.85	0.87
1:N:157:LEU:HD21	1:l:561:TYR:HE1	1.08	0.87
1:N:561:TYR:HE1	1:i:157:LEU:HD21	1.08	0.87
1:R:212:PHE:CZ	1:y:560:THR:OG1	2.26	0.87
1:R:212:PHE:CG	1:y:560:THR:OG1	2.26	0.87
1:R:244:ASN:ND2	1:m:93:GLU:CD	2.32	0.87
1:R:552:ILE:CG1	1:y:127:THR:HG22	2.03	0.87
1:W:560:THR:OG1	1:b:212:PHE:CZ	2.26	0.87
1:Z:560:THR:OG1	1:w:212:PHE:CZ	2.26	0.87
1:d:52:ILE:HG22	1:f:52:ILE:HG13	1.55	0.87
1:e:105:ASN:CG	1:e:159:LEU:HD11	2.00	0.87
1:f:552:ILE:CG1	1:q:127:THR:HG22	2.03	0.87
1:g:105:ASN:CG	1:g:159:LEU:HD11	2.00	0.87
1:u:94:LYS:H	1:z:242:SER:CB	1.85	0.87
1:u:105:ASN:CG	1:u:159:LEU:HD11	2.00	0.87
1:0:105:ASN:CG	1:0:159:LEU:HD11	2.00	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:52:ILE:HG22	1:R:52:ILE:HG13	1.55	0.87
1:3:52:ILE:HG22	1:e:52:ILE:HG13	1.55	0.87
1:3:552:ILE:CG1	1:x:127:THR:CB	2.52	0.87
1:5:125:THR:HG22	1:F:551:THR:CG2	2.04	0.87
1:7:127:THR:HG22	1:N:552:ILE:CG1	2.03	0.87
1:7:212:PHE:CZ	1:N:560:THR:OG1	2.26	0.87
1:A:52:ILE:HG13	1:k:52:ILE:HG22	1.55	0.87
1:B:52:ILE:HG22	1:i:52:ILE:HG13	1.55	0.87
1:B:105:ASN:CG	1:B:159:LEU:HD11	2.00	0.87
1:D:93:GLU:CD	1:Y:244:ASN:ND2	2.32	0.87
1:D:105:ASN:CG	1:D:159:LEU:HD11	2.00	0.87
1:D:190:LYS:HZ1	1:Y:190:LYS:HD3	1.39	0.87
1:D:212:PHE:CZ	1:V:560:THR:OG1	2.26	0.87
1:D:552:ILE:CG1	1:V:127:THR:CB	2.52	0.87
1:H:127:THR:HG22	1:S:552:ILE:CG1	2.03	0.87
1:I:105:ASN:CG	1:I:159:LEU:HD11	2.00	0.87
1:I:551:THR:CG2	1:l:125:THR:HG22	2.04	0.87
1:J:125:THR:HG22	1:L:551:THR:CG2	2.04	0.87
1:J:552:ILE:CG1	1:L:127:THR:CB	2.52	0.87
1:K:212:PHE:CG	1:h:560:THR:OG1	2.26	0.87
1:K:560:THR:OG1	1:h:212:PHE:CG	2.26	0.87
1:W:551:THR:CG2	1:b:125:THR:HG22	2.05	0.87
1:X:93:GLU:CD	1:w:244:ASN:ND2	2.32	0.87
1:X:127:THR:HG22	1:t:552:ILE:CG1	2.03	0.87
1:b:94:LYS:H	1:s:242:SER:CB	1.85	0.87
1:d:127:THR:CB	1:v:552:ILE:CG1	2.52	0.87
1:f:52:ILE:HG22	1:p:52:ILE:HG13	1.55	0.87
1:f:552:ILE:CG1	1:q:127:THR:CB	2.52	0.87
1:f:560:THR:OG1	1:q:212:PHE:CZ	2.26	0.87
1:g:93:GLU:CD	1:t:244:ASN:ND2	2.32	0.87
1:g:551:THR:CG2	1:r:125:THR:HG22	2.05	0.87
1:h:105:ASN:CG	1:h:159:LEU:HD11	2.00	0.87
1:m:127:THR:HG22	1:z:552:ILE:CG1	2.03	0.87
1:m:212:PHE:CG	1:z:560:THR:OG1	2.26	0.87
1:m:560:THR:OG1	1:z:212:PHE:CZ	2.26	0.87
1:s:105:ASN:CG	1:s:159:LEU:HD11	2.00	0.87
1:u:93:GLU:CD	1:z:244:ASN:ND2	2.32	0.87
1:l:125:THR:HG22	1:u:551:THR:CG2	2.04	0.87
1:2:560:THR:OG1	1:T:212:PHE:CZ	2.26	0.87
1:3:127:THR:HG22	1:x:552:ILE:CG1	2.03	0.87
1:3:190:LYS:HZ1	1:b:190:LYS:HD3	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:244:ASN:ND2	1:z:93:GLU:CD	2.32	0.87
1:5:127:THR:CB	1:F:552:ILE:CG1	2.52	0.87
1:6:552:ILE:CG1	1:c:127:THR:CB	2.52	0.87
1:D:212:PHE:CG	1:V:560:THR:OG1	2.26	0.87
1:D:560:THR:OG1	1:V:212:PHE:CZ	2.26	0.87
1:G:73:GLN:HE21	1:M:239:ARG:NH2	1.69	0.87
1:G:157:LEU:CD2	1:a:561:TYR:HE1	1.73	0.87
1:G:242:SER:CB	1:a:94:LYS:H	1.85	0.87
1:H:552:ILE:CG1	1:S:127:THR:CB	2.52	0.87
1:I:212:PHE:CG	1:l:560:THR:OG1	2.26	0.87
1:I:560:THR:OG1	1:l:212:PHE:CG	2.26	0.87
1:J:560:THR:OG1	1:L:212:PHE:CZ	2.26	0.87
1:K:125:THR:HG22	1:h:551:THR:CG2	2.04	0.87
1:N:52:ILE:HG13	1:P:52:ILE:HG22	1.55	0.87
1:P:125:THR:HG22	1:e:551:THR:CG2	2.04	0.87
1:U:105:ASN:CG	1:U:159:LEU:HD11	2.00	0.87
1:W:244:ASN:ND2	1:f:93:GLU:CD	2.32	0.87
1:Z:105:ASN:CG	1:Z:159:LEU:HD11	2.00	0.87
1:Z:125:THR:HG22	1:w:551:THR:CG2	2.05	0.87
1:a:52:ILE:HG22	1:b:52:ILE:HG13	1.55	0.87
1:e:244:ASN:ND2	1:t:93:GLU:CD	2.32	0.87
1:f:127:THR:CB	1:q:552:ILE:CG1	2.52	0.87
1:i:212:PHE:CZ	1:n:560:THR:OG1	2.26	0.87
1:i:552:ILE:CG1	1:n:127:THR:CB	2.52	0.87
1:m:212:PHE:CZ	1:z:560:THR:OG1	2.26	0.87
1:t:105:ASN:CG	1:t:159:LEU:HD11	2.00	0.87
1:y:105:ASN:CG	1:y:159:LEU:HD11	2.00	0.87
1:z:105:ASN:CG	1:z:159:LEU:HD11	2.00	0.87
1:O:125:THR:HG22	1:U:551:THR:CG2	2.05	0.87
1:O:190:LYS:HD3	1:c:190:LYS:HZ1	1.39	0.87
1:2:52:ILE:HG13	1:O:52:ILE:HG22	1.55	0.87
1:2:552:ILE:CG1	1:T:127:THR:HG22	2.03	0.87
1:5:552:ILE:CG1	1:F:127:THR:CB	2.52	0.87
1:6:93:GLU:CD	1:Z:244:ASN:ND2	2.32	0.87
1:7:93:GLU:CD	1:P:244:ASN:ND2	2.32	0.87
1:A:52:ILE:HG22	1:S:52:ILE:HG13	1.55	0.87
1:A:94:LYS:H	1:U:242:SER:CB	1.86	0.87
1:A:244:ASN:ND2	1:H:93:GLU:CD	2.32	0.87
1:B:125:THR:HG22	1:s:551:THR:CG2	2.05	0.87
1:C:125:THR:HG22	1:a:551:THR:CG2	2.04	0.87
1:C:127:THR:HG22	1:a:552:ILE:CG1	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:190:LYS:HD3	1:L:190:LYS:HZ1	1.40	0.87
1:D:52:ILE:HG22	1:M:52:ILE:HG13	1.55	0.87
1:D:127:THR:CB	1:V:552:ILE:CG1	2.52	0.87
1:E:127:THR:HG22	1:k:552:ILE:CG1	2.03	0.87
1:E:190:LYS:HZ1	1:S:190:LYS:HD3	1.39	0.87
1:F:244:ASN:ND2	1:R:93:GLU:CD	2.32	0.87
1:H:127:THR:CB	1:S:552:ILE:CG1	2.52	0.87
1:I:190:LYS:HD3	1:e:190:LYS:HZ1	1.39	0.87
1:J:127:THR:CB	1:L:552:ILE:CG1	2.52	0.87
1:R:551:THR:CG2	1:y:125:THR:HG22	2.05	0.87
1:S:105:ASN:CG	1:S:159:LEU:HD11	2.00	0.87
1:V:54:GLU:OE2	1:Y:207:LYS:HE3	1.75	0.87
1:W:207:LYS:HE3	1:q:54:GLU:OE2	1.75	0.87
1:W:560:THR:OG1	1:b:212:PHE:CG	2.26	0.87
1:X:212:PHE:CZ	1:t:560:THR:OG1	2.26	0.87
1:X:560:THR:OG1	1:t:212:PHE:CZ	2.26	0.87
1:b:52:ILE:HG22	1:x:52:ILE:HG13	1.55	0.87
1:f:212:PHE:CZ	1:q:560:THR:OG1	2.26	0.87
1:x:105:ASN:CG	1:x:159:LEU:HD11	2.00	0.87
1:0:127:THR:CB	1:U:552:ILE:CG1	2.52	0.87
1:2:52:ILE:HG22	1:h:52:ILE:HG13	1.55	0.87
1:2:561:TYR:HE1	1:6:157:LEU:HD21	1.08	0.87
1:3:73:GLN:HE21	1:b:239:ARG:NH2	1.69	0.87
1:3:93:GLU:CD	1:b:244:ASN:ND2	2.32	0.87
1:3:127:THR:CB	1:x:552:ILE:CG1	2.52	0.87
1:4:551:THR:CG2	1:O:125:THR:HG22	2.04	0.87
1:5:560:THR:OG1	1:F:212:PHE:CZ	2.26	0.87
1:6:52:ILE:HG22	1:T:52:ILE:HG13	1.55	0.87
1:6:212:PHE:CZ	1:c:560:THR:OG1	2.26	0.87
1:7:190:LYS:HD3	1:s:190:LYS:HZ1	1.39	0.87
1:A:190:LYS:HD3	1:H:190:LYS:HZ1	1.39	0.87
1:A:212:PHE:CG	1:Y:560:THR:OG1	2.26	0.87
1:B:127:THR:CB	1:s:552:ILE:CG1	2.52	0.87
1:G:127:THR:CB	1:j:552:ILE:CG1	2.52	0.87
1:M:105:ASN:CG	1:M:159:LEU:HD11	2.00	0.87
1:O:244:ASN:ND2	1:T:93:GLU:CD	2.32	0.87
1:R:125:THR:HG22	1:y:551:THR:CG2	2.04	0.87
1:R:207:LYS:HE3	1:z:54:GLU:OE2	1.75	0.87
1:V:73:GLN:HE21	1:j:239:ARG:NH2	1.69	0.87
1:Z:73:GLN:HE21	1:r:239:ARG:NH2	1.68	0.87
1:Z:551:THR:CG2	1:w:125:THR:HG22	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:239:ARG:NH2	1:q:73:GLN:HE21	1.69	0.87
1:f:212:PHE:CG	1:q:560:THR:OG1	2.26	0.87
1:k:94:LYS:H	1:v:242:SER:CB	1.85	0.87
1:p:157:LEU:HD21	1:v:561:TYR:HE1	1.08	0.87
1:t:54:GLU:OE2	1:w:207:LYS:HE3	1.75	0.87
1:3:552:ILE:CG1	1:x:127:THR:HG22	2.03	0.87
1:7:212:PHE:CG	1:N:560:THR:OG1	2.26	0.87
1:E:125:THR:HG22	1:k:551:THR:CG2	2.04	0.87
1:L:244:ASN:ND2	1:w:93:GLU:CD	2.32	0.87
1:N:54:GLU:OE2	1:P:207:LYS:HE3	1.75	0.87
1:N:242:SER:CB	1:l:94:LYS:H	1.85	0.87
1:P:560:THR:OG1	1:e:212:PHE:CZ	2.26	0.87
1:R:105:ASN:CG	1:R:159:LEU:HD11	2.00	0.87
1:V:52:ILE:HG13	1:Y:52:ILE:HG22	1.55	0.87
1:X:105:ASN:CG	1:X:159:LEU:HD11	2.00	0.87
1:Z:552:ILE:CG1	1:w:127:THR:CB	2.52	0.87
1:c:105:ASN:CG	1:c:159:LEU:HD11	2.00	0.87
1:d:552:ILE:CG1	1:v:127:THR:CB	2.52	0.87
1:i:551:THR:HG23	1:n:125:THR:HG22	1.53	0.87
1:m:105:ASN:CG	1:m:159:LEU:HD11	2.00	0.87
1:p:105:ASN:CG	1:p:159:LEU:HD11	2.00	0.87
1:w:105:ASN:CG	1:w:159:LEU:HD11	2.00	0.87
1:0:212:PHE:CG	1:U:560:THR:OG1	2.26	0.87
1:0:552:ILE:CG1	1:U:127:THR:CB	2.52	0.87
1:0:560:THR:OG1	1:U:212:PHE:CZ	2.26	0.87
1:1:207:LYS:HE3	1:R:54:GLU:OE2	1.75	0.87
1:2:54:GLU:OE2	1:O:207:LYS:HE3	1.75	0.87
1:2:242:SER:CB	1:K:94:LYS:H	1.85	0.87
1:2:560:THR:OG1	1:T:212:PHE:CG	2.26	0.87
1:5:105:ASN:CG	1:5:159:LEU:HD11	2.00	0.87
1:7:52:ILE:HG13	1:i:52:ILE:HG22	1.55	0.87
1:A:560:THR:OG1	1:Y:212:PHE:CZ	2.26	0.87
1:B:552:ILE:CG1	1:s:127:THR:CB	2.52	0.87
1:F:207:LYS:HE3	1:y:54:GLU:OE2	1.75	0.87
1:G:190:LYS:HZ1	1:M:190:LYS:HD3	1.40	0.87
1:G:244:ASN:ND2	1:a:93:GLU:CD	2.32	0.87
1:G:560:THR:OG1	1:j:212:PHE:CZ	2.26	0.87
1:J:105:ASN:CG	1:J:159:LEU:HD11	2.00	0.87
1:M:73:GLN:HE21	1:f:239:ARG:NH2	1.69	0.87
1:M:125:THR:HG22	1:p:551:THR:CG2	2.05	0.87
1:M:552:ILE:CG1	1:p:127:THR:CB	2.52	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:127:THR:CB	1:e:552:ILE:CG1	2.52	0.87
1:P:551:THR:CG2	1:e:125:THR:HG22	2.04	0.87
1:Q:54:GLU:OE2	1:u:207:LYS:HE3	1.75	0.87
1:Q:125:THR:HG22	1:o:551:THR:CG2	2.05	0.87
1:Q:190:LYS:HZ1	1:g:190:LYS:HD3	1.39	0.87
1:Q:551:THR:CG2	1:o:125:THR:HG22	2.05	0.87
1:V:93:GLU:CD	1:j:244:ASN:ND2	2.32	0.87
1:W:52:ILE:HG22	1:q:52:ILE:HG13	1.55	0.87
1:d:212:PHE:CZ	1:v:560:THR:OG1	2.26	0.87
1:i:93:GLU:CD	1:y:244:ASN:ND2	2.32	0.87
1:k:93:GLU:CD	1:v:244:ASN:ND2	2.32	0.87
1:n:105:ASN:CG	1:n:159:LEU:HD11	2.00	0.87
1:o:190:LYS:HZ1	1:u:190:LYS:HD3	1.39	0.87
1:p:190:LYS:HD3	1:v:190:LYS:HZ1	1.40	0.87
1:r:105:ASN:CG	1:r:159:LEU:HD11	1.99	0.87
1:r:207:LYS:HE3	1:w:54:GLU:OE2	1.75	0.87
1:1:239:ARG:NH2	1:y:73:GLN:HE21	1.68	0.87
1:4:125:THR:HG22	1:O:551:THR:CG2	2.04	0.87
1:7:105:ASN:CG	1:7:159:LEU:HD11	2.00	0.87
1:A:551:THR:CG2	1:Y:125:THR:HG22	2.04	0.87
1:B:212:PHE:CG	1:s:560:THR:OG1	2.26	0.87
1:B:560:THR:OG1	1:s:212:PHE:CZ	2.26	0.87
1:C:551:THR:CG2	1:a:125:THR:HG22	2.04	0.87
1:E:54:GLU:OE2	1:v:207:LYS:HE3	1.75	0.87
1:G:125:THR:HG22	1:j:551:THR:CG2	2.04	0.87
1:G:561:TYR:HE1	1:M:157:LEU:HD21	1.08	0.87
1:H:552:ILE:CG1	1:S:127:THR:HG22	2.03	0.87
1:I:52:ILE:HG13	1:N:52:ILE:HG22	1.55	0.87
1:J:190:LYS:HZ1	1:c:190:LYS:HD3	1.39	0.87
1:K:52:ILE:HG13	1:o:52:ILE:HG22	1.55	0.87
1:L:207:LYS:HE3	1:Z:54:GLU:OE2	1.75	0.87
1:M:127:THR:CB	1:p:552:ILE:CG1	2.52	0.87
1:M:551:THR:CG2	1:p:125:THR:HG22	2.05	0.87
1:R:127:THR:CB	1:y:552:ILE:CG1	2.52	0.87
1:R:552:ILE:CG1	1:y:127:THR:CB	2.52	0.87
1:T:105:ASN:CG	1:T:159:LEU:HD11	2.00	0.87
1:W:190:LYS:HD3	1:f:190:LYS:HZ1	1.40	0.87
1:W:212:PHE:CZ	1:b:560:THR:OG1	2.26	0.87
1:d:244:ASN:ND2	1:q:93:GLU:CD	2.32	0.87
1:g:127:THR:CB	1:r:552:ILE:CG1	2.52	0.87
1:g:207:LYS:HE3	1:o:54:GLU:OE2	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:190:LYS:HZ1	1:o:190:LYS:HD3	1.39	0.87
1:m:552:ILE:CG1	1:z:127:THR:CB	2.52	0.87
1:p:239:ARG:NH2	1:v:73:GLN:HE21	1.69	0.87
1:3:190:LYS:HD3	1:P:190:LYS:HZ1	1.40	0.86
1:4:552:ILE:CG1	1:O:127:THR:CB	2.52	0.86
1:5:190:LYS:HD3	1:d:190:LYS:HZ1	1.40	0.86
1:5:190:LYS:HZ1	1:n:190:LYS:HD3	1.39	0.86
1:6:207:LYS:HE3	1:T:54:GLU:OE2	1.75	0.86
1:6:551:THR:HG23	1:c:125:THR:HG22	1.53	0.86
1:7:54:GLU:OE2	1:i:207:LYS:HE3	1.75	0.86
1:E:551:THR:CG2	1:k:125:THR:HG22	2.05	0.86
1:O:54:GLU:OE2	1:h:207:LYS:HE3	1.75	0.86
1:O:105:ASN:CG	1:O:159:LEU:HD11	2.00	0.86
1:P:127:THR:HG22	1:e:552:ILE:CG1	2.03	0.86
1:R:190:LYS:HD3	1:m:190:LYS:HZ1	1.39	0.86
1:W:125:THR:HG22	1:b:551:THR:CG2	2.04	0.86
1:X:551:THR:CG2	1:t:125:THR:HG22	2.04	0.86
1:X:552:ILE:CG1	1:t:127:THR:CB	2.52	0.86
1:b:93:GLU:CD	1:s:244:ASN:ND2	2.32	0.86
1:d:551:THR:CG2	1:v:125:THR:HG22	2.04	0.86
1:e:190:LYS:HD3	1:t:190:LYS:HZ1	1.39	0.86
1:f:551:THR:CG2	1:q:125:THR:HG22	2.04	0.86
1:n:54:GLU:OE2	1:y:207:LYS:HE3	1.75	0.86
1:1:105:ASN:CG	1:1:159:LEU:HD11	2.00	0.86
1:1:552:ILE:CG1	1:u:127:THR:CB	2.52	0.86
1:4:190:LYS:HZ1	1:h:190:LYS:HD3	1.39	0.86
1:5:54:GLU:OE2	1:E:207:LYS:HE3	1.75	0.86
1:C:54:GLU:OE2	1:G:207:LYS:HE3	1.75	0.86
1:C:94:LYS:H	1:x:242:SER:CB	1.85	0.86
1:C:105:ASN:CG	1:C:159:LEU:HD11	2.00	0.86
1:C:207:LYS:HE3	1:J:54:GLU:OE2	1.75	0.86
1:H:190:LYS:HD3	1:O:190:LYS:HZ1	1.40	0.86
1:I:207:LYS:HE3	1:P:54:GLU:OE2	1.75	0.86
1:P:105:ASN:CG	1:P:159:LEU:HD11	2.00	0.86
1:Q:52:ILE:HG22	1:l:52:ILE:HG13	1.55	0.86
1:Z:127:THR:CB	1:w:552:ILE:CG1	2.52	0.86
1:l:52:ILE:HG22	1:u:52:ILE:HG13	1.55	0.86
1:o:105:ASN:CG	1:o:159:LEU:HD11	2.00	0.86
1:4:190:LYS:HD3	1:z:190:LYS:HZ1	1.39	0.86
1:4:552:ILE:CG1	1:O:127:THR:HG22	2.03	0.86
1:7:73:GLN:HE21	1:P:239:ARG:NH2	1.69	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:93:GLU:CD	1:U:244:ASN:ND2	2.32	0.86
1:B:157:LEU:HD21	1:n:561:TYR:HE1	1.08	0.86
1:B:207:LYS:HE3	1:i:54:GLU:OE2	1.75	0.86
1:D:551:THR:CG2	1:V:125:THR:HG22	2.05	0.86
1:E:552:ILE:CG1	1:k:127:THR:CB	2.52	0.86
1:I:190:LYS:HZ1	1:Q:190:LYS:HD3	1.39	0.86
1:J:190:LYS:HD3	1:j:190:LYS:HZ1	1.40	0.86
1:K:551:THR:CG2	1:h:125:THR:HG22	2.04	0.86
1:O:239:ARG:NH2	1:T:73:GLN:HE21	1.69	0.86
1:Q:93:GLU:CD	1:g:244:ASN:ND2	2.32	0.86
1:V:105:ASN:CG	1:V:159:LEU:HD11	2.00	0.86
1:X:190:LYS:HZ1	1:w:190:LYS:HD3	1.39	0.86
1:Z:52:ILE:HG22	1:c:52:ILE:HG13	1.55	0.86
1:Z:207:LYS:HE3	1:c:54:GLU:OE2	1.75	0.86
1:g:73:GLN:HE21	1:t:239:ARG:NH2	1.68	0.86
1:m:551:THR:CG2	1:z:125:THR:HG22	2.05	0.86
1:o:93:GLU:CD	1:u:244:ASN:ND2	2.32	0.86
1:q:105:ASN:CG	1:q:159:LEU:HD11	2.00	0.86
1:0:207:LYS:HE3	1:6:54:GLU:OE2	1.75	0.86
1:C:552:ILE:CG1	1:a:127:THR:CB	2.52	0.86
1:D:239:ARG:NH2	1:p:73:GLN:HE21	1.69	0.86
1:E:94:LYS:H	1:S:242:SER:CB	1.85	0.86
1:E:105:ASN:CG	1:E:159:LEU:HD11	2.00	0.86
1:F:105:ASN:CG	1:F:159:LEU:HD11	2.00	0.86
1:G:93:GLU:CD	1:M:244:ASN:ND2	2.32	0.86
1:N:105:ASN:CG	1:N:159:LEU:HD11	2.00	0.86
1:Q:52:ILE:HG13	1:u:52:ILE:HG22	1.55	0.86
1:Q:105:ASN:CG	1:Q:159:LEU:HD11	2.00	0.86
1:R:52:ILE:HG22	1:z:52:ILE:HG13	1.55	0.86
1:V:190:LYS:HZ1	1:j:190:LYS:HD3	1.40	0.86
1:X:127:THR:CB	1:t:552:ILE:CG1	2.52	0.86
1:Z:190:LYS:HZ1	1:r:190:LYS:HD3	1.39	0.86
1:d:105:ASN:CG	1:d:159:LEU:HD11	2.00	0.86
1:d:157:LEU:HD21	1:q:561:TYR:HE1	1.08	0.86
1:g:52:ILE:HG22	1:o:52:ILE:HG13	1.55	0.86
1:g:552:ILE:CG1	1:r:127:THR:CB	2.52	0.86
1:j:105:ASN:CG	1:j:159:LEU:HD11	1.99	0.86
1:n:52:ILE:HG13	1:y:52:ILE:HG22	1.55	0.86
1:p:244:ASN:ND2	1:v:93:GLU:CD	2.32	0.86
1:t:52:ILE:HG13	1:w:52:ILE:HG22	1.55	0.86
1:2:125:THR:HG22	1:T:551:THR:CG2	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:552:ILE:CG1	1:T:127:THR:CB	2.52	0.86
1:3:54:GLU:OE2	1:X:207:LYS:HE3	1.75	0.86
1:5:551:THR:CG2	1:F:125:THR:HG22	2.04	0.86
1:6:561:TYR:HE1	1:Z:157:LEU:CD2	1.73	0.86
1:7:190:LYS:HZ1	1:P:190:LYS:HD3	1.39	0.86
1:B:190:LYS:HZ1	1:q:190:LYS:HD3	1.40	0.86
1:D:207:LYS:HE3	1:M:54:GLU:OE2	1.75	0.86
1:G:105:ASN:CG	1:G:159:LEU:HD11	2.00	0.86
1:H:54:GLU:OE2	1:m:207:LYS:HE3	1.75	0.86
1:I:125:THR:HG22	1:l:551:THR:CG2	2.04	0.86
1:J:551:THR:CG2	1:L:125:THR:HG22	2.04	0.86
1:L:105:ASN:CG	1:L:159:LEU:HD11	2.00	0.86
1:a:105:ASN:CG	1:a:159:LEU:HD11	2.00	0.86
1:k:105:ASN:CG	1:k:159:LEU:HD11	2.00	0.86
1:0:157:LEU:HD21	1:c:561:TYR:HE1	1.08	0.86
1:0:190:LYS:HZ1	1:V:190:LYS:HD3	1.40	0.86
1:1:190:LYS:HD3	1:y:190:LYS:HZ1	1.39	0.86
1:2:105:ASN:CG	1:2:159:LEU:HD11	2.00	0.86
1:3:105:ASN:CG	1:3:159:LEU:HD11	2.00	0.86
1:6:105:ASN:CG	1:6:159:LEU:HD11	1.99	0.86
1:F:52:ILE:HG22	1:y:52:ILE:HG13	1.55	0.86
1:L:52:ILE:HG22	1:Z:52:ILE:HG13	1.55	0.86
1:W:105:ASN:CG	1:W:159:LEU:HD11	2.00	0.86
1:d:190:LYS:HD3	1:q:190:LYS:HZ1	1.40	0.86
1:f:207:LYS:HE3	1:p:54:GLU:OE2	1.75	0.86
1:i:551:THR:CG2	1:n:125:THR:HG22	2.05	0.86
1:m:127:THR:CB	1:z:552:ILE:CG1	2.52	0.86
1:1:127:THR:CB	1:u:552:ILE:CG1	2.52	0.86
1:4:54:GLU:OE2	1:H:207:LYS:HE3	1.75	0.86
1:6:551:THR:CG2	1:c:125:THR:HG22	2.05	0.86
1:7:127:THR:CB	1:N:552:ILE:CG1	2.52	0.86
1:7:551:THR:CG2	1:N:125:THR:HG22	2.04	0.86
1:D:127:THR:HG22	1:V:552:ILE:CG1	2.03	0.86
1:F:52:ILE:HG13	1:n:52:ILE:HG22	1.55	0.86
1:O:52:ILE:HG13	1:h:52:ILE:HG22	1.55	0.86
1:T:190:LYS:HD3	1:U:190:LYS:HZ1	1.39	0.86
1:V:561:TYR:HE1	1:j:157:LEU:HD21	1.08	0.86
1:Y:105:ASN:CG	1:Y:159:LEU:HD11	2.00	0.86
1:v:105:ASN:CG	1:v:159:LEU:HD11	2.00	0.86
1:1:551:THR:CG2	1:u:125:THR:HG22	2.05	0.86
1:G:54:GLU:OE2	1:J:207:LYS:HE3	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:105:ASN:CG	1:H:159:LEU:HD11	2.00	0.86
1:I:54:GLU:OE2	1:N:207:LYS:HE3	1.75	0.86
1:I:552:ILE:CG1	1:l:127:THR:HG22	2.03	0.86
1:L:52:ILE:HG13	1:c:52:ILE:HG22	1.55	0.86
1:L:190:LYS:HD3	1:w:190:LYS:HZ1	1.39	0.86
1:O:190:LYS:HD3	1:T:190:LYS:HZ1	1.39	0.86
1:Q:127:THR:CB	1:o:552:ILE:CG1	2.52	0.86
1:X:125:THR:HG22	1:t:551:THR:CG2	2.05	0.86
1:a:207:LYS:HE3	1:b:54:GLU:OE2	1.75	0.86
1:b:73:GLN:HE21	1:s:239:ARG:NH2	1.68	0.86
1:d:242:SER:CB	1:q:94:LYS:H	1.85	0.86
1:f:127:THR:HG22	1:q:552:ILE:CG1	2.03	0.86
1:i:105:ASN:CG	1:i:159:LEU:HD11	1.99	0.86
1:m:125:THR:HG22	1:z:551:THR:CG2	2.05	0.86
1:u:73:GLN:HE21	1:z:239:ARG:NH2	1.68	0.86
1:2:50:LEU:O	1:O:53:VAL:CA	2.24	0.86
1:3:207:LYS:HE3	1:e:54:GLU:OE2	1.75	0.86
1:4:94:LYS:H	1:h:242:SER:CB	1.85	0.86
1:A:54:GLU:OE2	1:k:207:LYS:HE3	1.75	0.86
1:C:242:SER:CB	1:L:94:LYS:H	1.85	0.86
1:I:52:ILE:HG22	1:P:52:ILE:HG13	1.55	0.86
1:L:157:LEU:HD21	1:w:561:TYR:HE1	1.08	0.86
1:M:207:LYS:HE3	1:j:54:GLU:OE2	1.75	0.86
1:g:125:THR:HG22	1:r:551:THR:CG2	2.05	0.86
1:p:157:LEU:CD2	1:v:561:TYR:HE1	1.73	0.86
1:0:50:LEU:O	1:T:53:VAL:CA	2.24	0.86
1:2:207:LYS:HE3	1:h:54:GLU:OE2	1.75	0.86
1:5:207:LYS:HE3	1:v:54:GLU:OE2	1.75	0.86
1:7:53:VAL:CA	1:B:50:LEU:O	2.24	0.86
1:D:125:THR:HG22	1:V:551:THR:CG2	2.05	0.86
1:E:242:SER:CB	1:F:94:LYS:H	1.85	0.86
1:I:242:SER:CB	1:e:94:LYS:H	1.85	0.86
1:K:127:THR:HG22	1:h:552:ILE:CG1	2.03	0.86
1:N:50:LEU:O	1:P:53:VAL:CA	2.24	0.86
1:Q:552:ILE:CG1	1:o:127:THR:CB	2.52	0.86
1:V:94:LYS:H	1:j:242:SER:CB	1.85	0.86
1:0:551:THR:CG2	1:U:125:THR:HG22	2.04	0.85
1:5:52:ILE:HG13	1:E:52:ILE:HG22	1.55	0.85
1:F:157:LEU:HD21	1:R:561:TYR:HE1	1.08	0.85
1:F:190:LYS:HD3	1:R:190:LYS:HZ1	1.39	0.85
1:I:127:THR:CB	1:l:552:ILE:CG1	2.52	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:54:GLU:OE2	1:c:207:LYS:HE3	1.75	0.85
1:M:127:THR:HG22	1:p:552:ILE:CG1	2.03	0.85
1:U:50:LEU:O	1:V:53:VAL:CA	2.24	0.85
1:U:52:ILE:HG13	1:V:52:ILE:HG22	1.55	0.85
1:b:105:ASN:CG	1:b:159:LEU:HD11	2.00	0.85
1:d:54:GLU:OE2	1:p:207:LYS:HE3	1.75	0.85
1:f:125:THR:HG22	1:q:551:THR:CG2	2.05	0.85
1:i:561:TYR:HE1	1:y:157:LEU:CD2	1.73	0.85
1:l:561:TYR:HE1	1:l:157:LEU:CD2	1.73	0.85
1:3:125:THR:HG22	1:x:551:THR:CG2	2.05	0.85
1:3:157:LEU:CD2	1:P:561:TYR:HE1	1.73	0.85
1:4:53:VAL:CA	1:m:50:LEU:O	2.24	0.85
1:A:53:VAL:CA	1:S:50:LEU:O	2.24	0.85
1:F:54:GLU:OE2	1:n:207:LYS:HE3	1.75	0.85
1:K:190:LYS:HD3	1:r:190:LYS:HZ1	1.41	0.85
1:Q:73:GLN:HE21	1:g:239:ARG:NH2	1.69	0.85
1:S:207:LYS:HE3	1:k:54:GLU:OE2	1.75	0.85
1:X:50:LEU:O	1:e:53:VAL:CA	2.24	0.85
1:X:157:LEU:HD21	1:x:561:TYR:HE1	1.08	0.85
1:a:54:GLU:OE2	1:x:207:LYS:HE3	1.75	0.85
1:d:52:ILE:HG13	1:p:52:ILE:HG22	1.55	0.85
1:i:125:THR:HG22	1:n:551:THR:CG2	2.05	0.85
1:q:53:VAL:CA	1:s:50:LEU:O	2.24	0.85
1:2:551:THR:CG2	1:T:125:THR:HG22	2.04	0.85
1:6:125:THR:HG22	1:c:551:THR:CG2	2.05	0.85
1:7:50:LEU:O	1:i:53:VAL:CA	2.24	0.85
1:A:105:ASN:CG	1:A:159:LEU:HD11	2.00	0.85
1:B:551:THR:CG2	1:s:125:THR:HG22	2.04	0.85
1:C:52:ILE:HG22	1:J:52:ILE:HG13	1.55	0.85
1:C:239:ARG:NH2	1:L:73:GLN:HE21	1.69	0.85
1:D:190:LYS:HD3	1:p:190:LYS:HZ1	1.39	0.85
1:G:561:TYR:HE1	1:M:157:LEU:CD2	1.73	0.85
1:H:125:THR:HG22	1:S:551:THR:CG2	2.05	0.85
1:H:157:LEU:CD2	1:O:561:TYR:HE1	1.73	0.85
1:K:552:ILE:CG1	1:h:127:THR:CB	2.52	0.85
1:M:552:ILE:CG1	1:p:127:THR:HG22	2.04	0.85
1:Y:561:TYR:HE1	1:k:157:LEU:CD2	1.73	0.85
1:b:53:VAL:CA	1:x:50:LEU:O	2.24	0.85
1:r:53:VAL:CA	1:w:50:LEU:O	2.24	0.85
1:r:54:GLU:OE2	1:t:207:LYS:HE3	1.75	0.85
1:0:54:GLU:OE2	1:T:207:LYS:HE3	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:53:VAL:CA	1:R:50:LEU:O	2.24	0.85
1:2:127:THR:CB	1:T:552:ILE:CG1	2.52	0.85
1:6:53:VAL:CA	1:T:50:LEU:O	2.24	0.85
1:A:73:GLN:HE21	1:U:239:ARG:NH2	1.69	0.85
1:M:52:ILE:HG22	1:j:52:ILE:HG13	1.55	0.85
1:Q:207:LYS:HE3	1:l:54:GLU:OE2	1.75	0.85
1:q:52:ILE:HG22	1:s:52:ILE:HG13	1.55	0.85
1:5:53:VAL:CA	1:v:50:LEU:O	2.24	0.85
1:7:552:ILE:CG1	1:N:127:THR:CB	2.52	0.85
1:A:242:SER:CB	1:H:94:LYS:H	1.85	0.85
1:C:53:VAL:CA	1:J:50:LEU:O	2.24	0.85
1:C:73:GLN:HE21	1:x:239:ARG:NH2	1.69	0.85
1:C:190:LYS:HZ1	1:x:190:LYS:HD3	1.39	0.85
1:G:50:LEU:O	1:J:53:VAL:CA	2.24	0.85
1:U:54:GLU:OE2	1:V:207:LYS:HE3	1.75	0.85
1:X:552:ILE:CG1	1:t:127:THR:HG22	2.03	0.85
1:b:190:LYS:HZ1	1:s:190:LYS:HD3	1.39	0.85
1:e:239:ARG:NH2	1:t:73:GLN:HE21	1.69	0.85
1:q:207:LYS:HE3	1:s:54:GLU:OE2	1.75	0.85
1:0:561:TYR:HE1	1:V:157:LEU:CD2	1.73	0.85
1:1:157:LEU:CD2	1:y:561:TYR:HE1	1.73	0.85
1:3:94:LYS:H	1:b:242:SER:CB	1.85	0.85
1:5:50:LEU:O	1:E:53:VAL:CA	2.24	0.85
1:7:125:THR:HG22	1:N:551:THR:CG2	2.04	0.85
1:7:207:LYS:HE3	1:B:54:GLU:OE2	1.75	0.85
1:K:54:GLU:OE2	1:o:207:LYS:HE3	1.75	0.85
1:Q:53:VAL:CA	1:l:50:LEU:O	2.24	0.85
1:d:53:VAL:CA	1:f:50:LEU:O	2.24	0.85
1:g:190:LYS:HZ1	1:t:190:LYS:HD3	1.39	0.85
1:h:94:LYS:H	1:o:242:SER:CB	1.85	0.85
1:l:207:LYS:HE3	1:u:54:GLU:OE2	1.75	0.85
1:1:54:GLU:OE2	1:z:207:LYS:HE3	1.75	0.85
1:3:50:LEU:O	1:X:53:VAL:CA	2.24	0.85
1:A:190:LYS:HZ1	1:U:190:LYS:HD3	1.39	0.85
1:B:127:THR:HG22	1:s:552:ILE:CG1	2.03	0.85
1:D:50:LEU:O	1:j:53:VAL:CA	2.24	0.85
1:E:239:ARG:NH2	1:F:73:GLN:HE21	1.69	0.85
1:F:50:LEU:O	1:n:53:VAL:CA	2.24	0.85
1:K:50:LEU:O	1:o:53:VAL:CA	2.24	0.85
1:P:552:ILE:CG1	1:e:127:THR:HG22	2.03	0.85
1:S:561:TYR:HE1	1:m:157:LEU:HD21	1.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:190:LYS:HZ1	1:a:190:LYS:HD3	1.39	0.85
1:d:50:LEU:O	1:p:53:VAL:CA	2.24	0.85
1:l:53:VAL:CA	1:u:50:LEU:O	2.24	0.85
1:m:552:ILE:CG1	1:z:127:THR:HG22	2.03	0.85
1:h:50:LEU:O	1:m:53:VAL:CA	2.24	0.85
1:I:50:LEU:O	1:N:53:VAL:CA	2.24	0.85
1:K:53:VAL:CA	1:g:50:LEU:O	2.24	0.85
1:K:157:LEU:CD2	1:r:561:TYR:HE1	1.73	0.85
1:L:50:LEU:O	1:c:53:VAL:CA	2.24	0.85
1:M:190:LYS:HZ1	1:f:190:LYS:HD3	1.40	0.85
1:X:190:LYS:HD3	1:x:190:LYS:HZ1	1.39	0.85
1:g:53:VAL:CA	1:o:50:LEU:O	2.24	0.85
1:o:73:GLN:HE21	1:u:239:ARG:NH2	1.69	0.85
1:2:53:VAL:CA	1:h:50:LEU:O	2.24	0.85
1:2:239:ARG:NH2	1:K:73:GLN:HE21	1.69	0.85
1:4:239:ARG:NH2	1:z:73:GLN:HE21	1.69	0.85
1:C:50:LEU:O	1:G:53:VAL:CA	2.24	0.85
1:D:53:VAL:CA	1:M:50:LEU:O	2.24	0.85
1:I:94:LYS:H	1:Q:242:SER:CB	1.85	0.85
1:K:207:LYS:HE3	1:g:54:GLU:OE2	1.75	0.85
1:M:53:VAL:CA	1:j:50:LEU:O	2.24	0.85
1:N:190:LYS:HD3	1:l:190:LYS:HZ1	1.40	0.85
1:S:190:LYS:HZ1	1:m:190:LYS:HD3	1.39	0.85
1:W:561:TYR:HE1	1:a:157:LEU:CD2	1.73	0.85
1:Y:190:LYS:HZ1	1:k:190:LYS:HD3	1.39	0.85
1:Z:53:VAL:CA	1:c:50:LEU:O	2.24	0.85
1:f:53:VAL:CA	1:p:50:LEU:O	2.24	0.85
1:n:50:LEU:O	1:y:53:VAL:CA	2.24	0.85
1:t:50:LEU:O	1:w:53:VAL:CA	2.24	0.85
1:A:207:LYS:HE3	1:S:54:GLU:OE2	1.75	0.85
1:B:561:TYR:HE1	1:q:157:LEU:CD2	1.73	0.85
1:E:50:LEU:O	1:v:53:VAL:CA	2.24	0.85
1:E:73:GLN:HE21	1:S:239:ARG:NH2	1.69	0.85
1:G:190:LYS:HD3	1:a:190:LYS:HZ1	1.41	0.85
1:Q:50:LEU:O	1:u:53:VAL:CA	2.24	0.85
1:R:53:VAL:CA	1:z:50:LEU:O	2.24	0.85
1:V:50:LEU:O	1:Y:53:VAL:CA	2.24	0.85
1:W:242:SER:CB	1:f:94:LYS:H	1.85	0.85
1:b:207:LYS:HE3	1:x:54:GLU:OE2	1.75	0.85
1:O:127:THR:HG22	1:U:552:ILE:CG1	2.03	0.84
1:1:50:LEU:O	1:z:53:VAL:CA	2.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:54:GLU:OE2	1:j:207:LYS:HE3	1.75	0.84
1:L:242:SER:CB	1:w:94:LYS:H	1.85	0.84
1:W:53:VAL:CA	1:q:50:LEU:O	2.24	0.84
1:W:54:GLU:OE2	1:s:207:LYS:HE3	1.75	0.84
1:4:207:LYS:HE3	1:m:54:GLU:OE2	1.75	0.84
1:5:94:LYS:H	1:n:242:SER:CB	1.85	0.84
1:F:53:VAL:CA	1:y:50:LEU:O	2.24	0.84
1:L:53:VAL:CA	1:Z:50:LEU:O	2.24	0.84
1:X:54:GLU:OE2	1:e:207:LYS:HE3	1.75	0.84
1:Z:561:TYR:HE1	1:r:157:LEU:CD2	1.73	0.84
1:d:207:LYS:HE3	1:f:54:GLU:OE2	1.75	0.84
1:2:190:LYS:HD3	1:K:190:LYS:HZ1	1.40	0.84
1:O:50:LEU:O	1:h:53:VAL:CA	2.24	0.84
1:S:53:VAL:CA	1:k:50:LEU:O	2.24	0.84
1:U:207:LYS:HE3	1:Y:54:GLU:OE2	1.75	0.84
1:W:50:LEU:O	1:s:53:VAL:CA	2.24	0.84
1:r:50:LEU:O	1:t:53:VAL:CA	2.24	0.84
1:6:190:LYS:HZ1	1:Z:190:LYS:HD3	1.39	0.84
1:D:94:LYS:H	1:Y:242:SER:CB	1.85	0.84
1:I:53:VAL:CA	1:P:50:LEU:O	2.24	0.84
1:N:239:ARG:NH2	1:l:73:GLN:HE21	1.69	0.84
1:U:53:VAL:CA	1:Y:50:LEU:O	2.24	0.84
1:a:50:LEU:O	1:x:53:VAL:CA	2.24	0.84
1:k:190:LYS:HZ1	1:v:190:LYS:HD3	1.41	0.84
1:u:190:LYS:HZ1	1:z:190:LYS:HD3	1.39	0.84
1:4:157:LEU:CD2	1:z:561:TYR:HE1	1.73	0.84
1:F:242:SER:CB	1:R:94:LYS:H	1.85	0.84
1:2:190:LYS:HZ1	1:6:190:LYS:HD3	1.40	0.84
1:B:190:LYS:HD3	1:n:190:LYS:HZ1	1.40	0.84
1:J:94:LYS:H	1:c:242:SER:CB	1.85	0.84
1:3:242:SER:CB	1:P:94:LYS:H	1.85	0.84
1:4:125:THR:HA	1:O:551:THR:CG2	2.08	0.84
1:6:551:THR:CG2	1:c:125:THR:HA	2.08	0.84
1:C:551:THR:CG2	1:a:125:THR:HA	2.08	0.84
1:D:551:THR:CG2	1:V:125:THR:HA	2.08	0.84
1:E:551:THR:CG2	1:k:125:THR:HA	2.08	0.84
1:G:550:SER:C	1:j:125:THR:CG2	2.51	0.84
1:N:190:LYS:HZ1	1:i:190:LYS:HD3	1.40	0.84
1:d:125:THR:CG2	1:v:550:SER:C	2.51	0.84
1:f:551:THR:CG2	1:q:125:THR:HA	2.08	0.84
1:O:550:SER:C	1:U:125:THR:CG2	2.51	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:550:SER:C	1:u:125:THR:CG2	2.51	0.84
1:6:550:SER:C	1:c:125:THR:CG2	2.51	0.84
1:B:550:SER:C	1:s:125:THR:CG2	2.51	0.84
1:a:53:VAL:CA	1:b:50:LEU:O	2.24	0.84
1:g:125:THR:CG2	1:r:550:SER:C	2.51	0.84
1:i:190:LYS:HZ1	1:y:190:LYS:HD3	1.40	0.84
1:i:550:SER:C	1:n:125:THR:CG2	2.51	0.84
1:i:551:THR:CG2	1:n:125:THR:HA	2.08	0.84
1:0:125:THR:HA	1:U:551:THR:CG2	2.08	0.84
1:0:551:THR:CG2	1:U:125:THR:HA	2.08	0.84
1:5:157:LEU:CD2	1:d:561:TYR:HE1	1.73	0.84
1:A:561:TYR:HE1	1:U:157:LEU:CD2	1.73	0.84
1:B:551:THR:CG2	1:s:125:THR:HA	2.08	0.84
1:P:551:THR:CG2	1:e:125:THR:HA	2.08	0.84
1:3:125:THR:CG2	1:x:550:SER:C	2.51	0.84
1:5:125:THR:CG2	1:F:550:SER:C	2.51	0.84
1:A:50:LEU:O	1:k:53:VAL:CA	2.24	0.84
1:B:125:THR:HA	1:s:551:THR:CG2	2.08	0.84
1:C:125:THR:HA	1:a:551:THR:CG2	2.08	0.84
1:E:125:THR:HA	1:k:551:THR:CG2	2.08	0.84
1:H:125:THR:CG2	1:S:550:SER:C	2.51	0.84
1:J:125:THR:CG2	1:L:550:SER:C	2.51	0.84
1:J:157:LEU:CD2	1:j:561:TYR:HE1	1.73	0.84
1:K:125:THR:CG2	1:h:550:SER:C	2.51	0.84
1:Q:94:LYS:H	1:g:242:SER:CB	1.85	0.84
1:R:157:LEU:CD2	1:m:561:TYR:HE1	1.73	0.84
1:V:561:TYR:HE1	1:j:157:LEU:CD2	1.73	0.84
1:e:242:SER:CB	1:t:94:LYS:H	1.85	0.84
1:6:94:LYS:H	1:Z:242:SER:CB	1.85	0.83
1:G:125:THR:CG2	1:j:550:SER:C	2.51	0.83
1:H:242:SER:CB	1:O:94:LYS:H	1.85	0.83
1:I:125:THR:HA	1:l:551:THR:CG2	2.08	0.83
1:I:550:SER:C	1:l:125:THR:CG2	2.51	0.83
1:K:551:THR:CG2	1:h:125:THR:HA	2.08	0.83
1:b:561:TYR:HE1	1:s:157:LEU:CD2	1.73	0.83
1:d:550:SER:C	1:v:125:THR:CG2	2.51	0.83
1:e:157:LEU:CD2	1:t:561:TYR:HE1	1.73	0.83
1:A:125:THR:CG2	1:Y:550:SER:C	2.51	0.83
1:o:94:LYS:H	1:u:242:SER:CB	1.85	0.83
1:0:53:VAL:CA	1:6:50:LEU:O	2.24	0.83
1:2:48:LYS:N	1:O:56:GLN:CD	2.37	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:53:VAL:CA	1:e:50:LEU:O	2.24	0.83
1:6:125:THR:CG2	1:c:550:SER:C	2.51	0.83
1:J:242:SER:CB	1:j:94:LYS:H	1.85	0.83
1:M:125:THR:CG2	1:p:550:SER:C	2.51	0.83
1:M:550:SER:C	1:p:125:THR:CG2	2.51	0.83
1:N:48:LYS:N	1:P:56:GLN:CD	2.37	0.83
1:3:56:GLN:CD	1:e:48:LYS:N	2.37	0.83
1:3:551:THR:HG22	1:x:125:THR:CB	2.09	0.83
1:4:48:LYS:N	1:H:56:GLN:CD	2.37	0.83
1:4:242:SER:CB	1:z:94:LYS:H	1.85	0.83
1:A:56:GLN:CD	1:S:48:LYS:N	2.37	0.83
1:C:125:THR:CG2	1:a:550:SER:C	2.51	0.83
1:H:551:THR:HG22	1:S:125:THR:CB	2.09	0.83
1:W:157:LEU:CD2	1:f:561:TYR:HE1	1.73	0.83
1:X:561:TYR:HE1	1:w:157:LEU:CD2	1.73	0.83
1:i:94:LYS:H	1:y:242:SER:CB	1.85	0.83
1:4:50:LEU:O	1:H:53:VAL:CA	2.24	0.83
1:4:551:THR:HG22	1:O:125:THR:CB	2.09	0.83
1:5:242:SER:CB	1:d:94:LYS:H	1.85	0.83
1:A:551:THR:HG22	1:Y:125:THR:CB	2.09	0.83
1:B:53:VAL:CA	1:i:50:LEU:O	2.24	0.83
1:E:125:THR:CG2	1:k:550:SER:C	2.51	0.83
1:I:56:GLN:CD	1:P:48:LYS:N	2.37	0.83
1:K:56:GLN:CD	1:g:48:LYS:N	2.37	0.83
1:O:48:LYS:N	1:h:56:GLN:CD	2.37	0.83
1:R:125:THR:CB	1:y:551:THR:HG22	2.09	0.83
1:X:551:THR:HG22	1:t:125:THR:CB	2.09	0.83
1:Z:551:THR:HG22	1:w:125:THR:CB	2.09	0.83
1:b:56:GLN:CD	1:x:48:LYS:N	2.37	0.83
1:d:157:LEU:CD2	1:q:561:TYR:HE1	1.73	0.83
1:i:125:THR:CG2	1:n:550:SER:C	2.51	0.83
1:m:551:THR:HG22	1:z:125:THR:CB	2.09	0.83
1:l:157:LEU:HD21	1:y:561:TYR:HE1	1.08	0.83
1:4:125:THR:CB	1:O:551:THR:HG22	2.09	0.83
1:G:551:THR:HG22	1:j:125:THR:CB	2.09	0.83
1:P:125:THR:CB	1:e:551:THR:HG22	2.09	0.83
1:P:551:THR:HG22	1:e:125:THR:CB	2.09	0.83
1:Q:125:THR:CG2	1:o:550:SER:C	2.51	0.83
1:Q:550:SER:C	1:o:125:THR:CG2	2.51	0.83
1:Q:551:THR:HG22	1:o:125:THR:CB	2.09	0.83
1:W:125:THR:CB	1:b:551:THR:HG22	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:551:THR:CG2	1:w:125:THR:HA	2.08	0.83
1:l:56:GLN:CD	1:u:48:LYS:N	2.37	0.83
1:A:550:SER:C	1:Y:125:THR:CG2	2.51	0.83
1:D:561:TYR:HE1	1:Y:157:LEU:CD2	1.73	0.83
1:E:48:LYS:N	1:v:56:GLN:CD	2.37	0.83
1:I:125:THR:CG2	1:l:550:SER:C	2.51	0.83
1:I:551:THR:CG2	1:l:125:THR:HA	2.08	0.83
1:S:94:LYS:H	1:m:242:SER:CB	1.85	0.83
1:W:125:THR:CG2	1:b:550:SER:C	2.51	0.83
1:X:242:SER:CB	1:x:94:LYS:H	1.85	0.83
1:Z:125:THR:HA	1:w:551:THR:CG2	2.08	0.83
1:1:48:LYS:N	1:z:56:GLN:CD	2.37	0.83
1:4:56:GLN:CD	1:m:48:LYS:N	2.37	0.83
1:4:125:THR:CG2	1:O:550:SER:C	2.51	0.83
1:5:551:THR:CG2	1:F:125:THR:HA	2.08	0.83
1:B:125:THR:CG2	1:s:550:SER:C	2.51	0.83
1:C:48:LYS:N	1:G:56:GLN:CD	2.37	0.83
1:J:551:THR:CG2	1:L:125:THR:HA	2.08	0.83
1:K:125:THR:HA	1:h:551:THR:CG2	2.08	0.83
1:M:125:THR:CB	1:p:551:THR:HG22	2.09	0.83
1:M:551:THR:HG22	1:p:125:THR:CB	2.09	0.83
1:Q:125:THR:CB	1:o:551:THR:HG22	2.09	0.83
1:R:125:THR:HA	1:y:551:THR:CG2	2.08	0.83
1:R:551:THR:CG2	1:y:125:THR:HA	2.08	0.83
1:X:48:LYS:N	1:e:56:GLN:CD	2.37	0.83
1:d:551:THR:CG2	1:v:125:THR:HA	2.08	0.83
1:g:56:GLN:CD	1:o:48:LYS:N	2.37	0.83
1:6:125:THR:HA	1:c:551:THR:CG2	2.08	0.83
1:G:125:THR:HA	1:j:551:THR:CG2	2.08	0.83
1:G:125:THR:CB	1:j:551:THR:HG22	2.09	0.83
1:H:125:THR:CB	1:S:551:THR:HG22	2.09	0.83
1:H:551:THR:CG2	1:S:125:THR:HA	2.08	0.83
1:J:125:THR:CB	1:L:551:THR:HG22	2.09	0.83
1:P:550:SER:C	1:e:125:THR:CG2	2.51	0.83
1:Q:48:LYS:N	1:u:56:GLN:CD	2.37	0.83
1:Q:56:GLN:CD	1:l:48:LYS:N	2.37	0.83
1:d:551:THR:HG22	1:v:125:THR:CB	2.09	0.83
1:n:48:LYS:N	1:y:56:GLN:CD	2.37	0.83
1:r:48:LYS:N	1:t:56:GLN:CD	2.37	0.83
1:0:125:THR:CG2	1:U:550:SER:C	2.51	0.83
1:3:125:THR:CB	1:x:551:THR:HG22	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:550:SER:C	1:x:125:THR:CG2	2.51	0.83
1:5:125:THR:CB	1:F:551:THR:HG22	2.09	0.83
1:C:551:THR:HG22	1:a:125:THR:CB	2.09	0.83
1:D:550:SER:C	1:V:125:THR:CG2	2.51	0.83
1:F:56:GLN:CD	1:y:48:LYS:N	2.37	0.83
1:K:48:LYS:N	1:o:56:GLN:CD	2.37	0.83
1:K:550:SER:C	1:h:125:THR:CG2	2.51	0.83
1:O:157:LEU:CD2	1:T:561:TYR:HE1	1.73	0.83
1:Z:56:GLN:CD	1:c:48:LYS:N	2.37	0.83
1:Z:561:TYR:HE1	1:r:157:LEU:HD21	1.08	0.83
1:m:125:THR:CG2	1:z:550:SER:C	2.51	0.83
1:3:125:THR:HA	1:x:551:THR:CG2	2.08	0.82
1:3:551:THR:CG2	1:x:125:THR:HA	2.08	0.82
1:7:551:THR:HG22	1:N:125:THR:CB	2.09	0.82
1:A:48:LYS:N	1:k:56:GLN:CD	2.37	0.82
1:E:551:THR:HG22	1:k:125:THR:CB	2.09	0.82
1:H:550:SER:C	1:S:125:THR:CG2	2.51	0.82
1:I:48:LYS:N	1:N:56:GLN:CD	2.37	0.82
1:X:125:THR:CG2	1:t:550:SER:C	2.51	0.82
1:f:550:SER:C	1:q:125:THR:CG2	2.51	0.82
1:i:125:THR:HA	1:n:551:THR:CG2	2.08	0.82
1:u:561:TYR:HE1	1:z:157:LEU:HD21	1.08	0.82
1:2:56:GLN:CD	1:h:48:LYS:N	2.37	0.82
1:7:48:LYS:N	1:i:56:GLN:CD	2.37	0.82
1:D:157:LEU:HD21	1:p:561:TYR:HE1	1.08	0.82
1:F:48:LYS:N	1:n:56:GLN:CD	2.37	0.82
1:H:549:MET:HE2	1:S:125:THR:HG1	1.39	0.82
1:L:48:LYS:N	1:c:56:GLN:CD	2.37	0.82
1:L:56:GLN:CD	1:Z:48:LYS:N	2.37	0.82
1:g:125:THR:CB	1:r:551:THR:HG22	2.09	0.82
1:q:56:GLN:CD	1:s:48:LYS:N	2.37	0.82
1:1:125:THR:CG2	1:u:550:SER:C	2.51	0.82
1:1:551:THR:HG22	1:u:125:THR:CB	2.09	0.82
1:2:125:THR:CB	1:T:551:THR:HG22	2.09	0.82
1:5:125:THR:HA	1:F:551:THR:CG2	2.08	0.82
1:B:56:GLN:CD	1:i:48:LYS:N	2.37	0.82
1:D:551:THR:HG22	1:V:125:THR:CB	2.09	0.82
1:H:125:THR:HA	1:S:551:THR:CG2	2.08	0.82
1:J:125:THR:HA	1:L:551:THR:CG2	2.08	0.82
1:U:48:LYS:N	1:V:56:GLN:CD	2.37	0.82
1:W:48:LYS:N	1:s:56:GLN:CD	2.37	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:56:GLN:CD	1:b:48:LYS:N	2.37	0.82
1:m:551:THR:CG2	1:z:125:THR:HA	2.08	0.82
1:0:56:GLN:CD	1:6:48:LYS:N	2.37	0.82
1:0:125:THR:CB	1:U:551:THR:HG22	2.09	0.82
1:2:125:THR:HA	1:T:551:THR:CG2	2.08	0.82
1:6:56:GLN:CD	1:T:48:LYS:N	2.37	0.82
1:7:551:THR:CG2	1:N:125:THR:HA	2.08	0.82
1:J:561:TYR:HE1	1:c:157:LEU:HD21	1.08	0.82
1:U:56:GLN:CD	1:Y:48:LYS:N	2.37	0.82
1:X:551:THR:CG2	1:t:125:THR:HA	2.08	0.82
1:2:550:SER:C	1:T:125:THR:CG2	2.51	0.82
1:6:551:THR:HG22	1:c:125:THR:CB	2.09	0.82
1:A:125:THR:HA	1:Y:551:THR:CG2	2.08	0.82
1:C:85:MET:HG2	1:x:394:TYR:CD2	2.15	0.82
1:E:85:MET:HG2	1:S:394:TYR:CD2	2.15	0.82
1:G:85:MET:HG2	1:M:394:TYR:CD2	2.15	0.82
1:I:125:THR:CB	1:l:551:THR:HG22	2.09	0.82
1:K:125:THR:CB	1:h:551:THR:HG22	2.09	0.82
1:K:551:THR:HG22	1:h:125:THR:CB	2.09	0.82
1:Q:561:TYR:HE1	1:g:157:LEU:CD2	1.73	0.82
1:W:125:THR:HA	1:b:551:THR:CG2	2.08	0.82
1:f:551:THR:HG22	1:q:125:THR:CB	2.09	0.82
1:g:550:SER:C	1:r:125:THR:CG2	2.51	0.82
1:i:551:THR:HG22	1:n:125:THR:CB	2.09	0.82
1:1:85:MET:HG2	1:l:394:TYR:CD2	2.15	0.82
1:7:85:MET:HG2	1:P:394:TYR:CD2	2.15	0.82
1:7:242:SER:CB	1:s:94:LYS:H	1.85	0.82
1:A:551:THR:CG2	1:Y:125:THR:HA	2.08	0.82
1:B:125:THR:CB	1:s:551:THR:HG22	2.09	0.82
1:K:394:TYR:CD2	1:r:85:MET:HG2	2.15	0.82
1:O:394:TYR:CD2	1:T:85:MET:HG2	2.15	0.82
1:P:125:THR:HA	1:e:551:THR:CG2	2.08	0.82
1:Q:125:THR:HA	1:o:551:THR:CG2	2.08	0.82
1:R:56:GLN:CD	1:z:48:LYS:N	2.37	0.82
1:p:394:TYR:CD2	1:v:85:MET:HG2	2.15	0.82
1:1:94:LYS:H	1:l:242:SER:CB	1.85	0.82
1:3:549:MET:HE2	1:x:125:THR:HG1	1.39	0.82
1:5:85:MET:HG2	1:n:394:TYR:CD2	2.15	0.82
1:5:551:THR:HG22	1:F:125:THR:CB	2.09	0.82
1:G:394:TYR:CD2	1:a:85:MET:HG2	2.15	0.82
1:H:48:LYS:N	1:m:56:GLN:CD	2.37	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:551:THR:HG22	1:l:125:THR:CB	2.09	0.82
1:M:125:THR:HA	1:p:551:THR:CG2	2.08	0.82
1:R:125:THR:CG2	1:y:550:SER:C	2.51	0.82
1:W:551:THR:CG2	1:b:125:THR:HA	2.08	0.82
1:g:561:TYR:HE1	1:t:157:LEU:HD21	1.08	0.82
1:k:85:MET:HG2	1:v:394:TYR:CD2	2.15	0.82
1:m:125:THR:HA	1:z:551:THR:CG2	2.08	0.82
1:O:551:THR:HG22	1:U:125:THR:CB	2.09	0.82
1:4:551:THR:CG2	1:O:125:THR:HA	2.08	0.82
1:7:125:THR:CG2	1:N:550:SER:C	2.51	0.82
1:B:551:THR:HG22	1:s:125:THR:CB	2.09	0.82
1:D:56:GLN:CD	1:M:48:LYS:N	2.37	0.82
1:D:85:MET:HG2	1:Y:394:TYR:CD2	2.15	0.82
1:F:394:TYR:CD2	1:R:85:MET:HG2	2.15	0.82
1:J:85:MET:HG2	1:c:394:TYR:CD2	2.15	0.82
1:J:550:SER:C	1:L:125:THR:CG2	2.51	0.82
1:J:551:THR:HG22	1:L:125:THR:CB	2.09	0.82
1:L:394:TYR:CD2	1:w:85:MET:HG2	2.15	0.82
1:M:551:THR:CG2	1:p:125:THR:HA	2.08	0.82
1:Q:551:THR:CG2	1:o:125:THR:HA	2.08	0.82
1:W:394:TYR:CD2	1:f:85:MET:HG2	2.15	0.82
1:Z:550:SER:C	1:w:125:THR:CG2	2.51	0.82
1:f:56:GLN:CD	1:p:48:LYS:N	2.37	0.82
1:f:125:THR:HA	1:q:551:THR:CG2	2.08	0.82
1:g:551:THR:CG2	1:r:125:THR:HA	2.08	0.82
1:t:48:LYS:N	1:w:56:GLN:CD	2.37	0.82
1:3:48:LYS:N	1:X:56:GLN:CD	2.37	0.82
1:4:85:MET:HG2	1:h:394:TYR:CD2	2.15	0.82
1:5:56:GLN:CD	1:v:48:LYS:N	2.37	0.82
1:5:394:TYR:CD2	1:d:85:MET:HG2	2.15	0.82
1:5:550:SER:C	1:F:125:THR:CG2	2.51	0.82
1:5:561:TYR:HE1	1:n:157:LEU:HD21	1.08	0.82
1:6:125:THR:CB	1:c:551:THR:HG22	2.09	0.82
1:7:125:THR:HA	1:N:551:THR:CG2	2.08	0.82
1:A:85:MET:HG2	1:U:394:TYR:CD2	2.15	0.82
1:D:125:THR:HA	1:V:551:THR:CG2	2.08	0.82
1:T:242:SER:CB	1:U:94:LYS:H	1.85	0.82
1:V:48:LYS:N	1:Y:56:GLN:CD	2.37	0.82
1:W:56:GLN:CD	1:q:48:LYS:N	2.37	0.82
1:X:125:THR:HA	1:t:551:THR:CG2	2.08	0.82
1:X:125:THR:CB	1:t:551:THR:HG22	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:85:MET:HG2	1:t:394:TYR:CD2	2.15	0.82
1:i:125:THR:CB	1:n:551:THR:HG22	2.09	0.82
1:k:561:TYR:HE1	1:v:157:LEU:CD2	1.73	0.82
1:o:561:TYR:HE1	1:u:157:LEU:CD2	1.73	0.82
1:0:48:LYS:N	1:T:56:GLN:CD	2.37	0.82
1:1:56:GLN:CD	1:R:48:LYS:N	2.37	0.82
1:1:125:THR:HA	1:u:551:THR:CG2	2.08	0.82
1:2:551:THR:HG22	1:T:125:THR:CB	2.09	0.82
1:3:85:MET:HG2	1:b:394:TYR:CD2	2.15	0.82
1:7:56:GLN:CD	1:B:48:LYS:N	2.37	0.82
1:A:394:TYR:CD2	1:H:85:MET:HG2	2.15	0.82
1:G:48:LYS:N	1:J:56:GLN:CD	2.37	0.82
1:I:394:TYR:CD2	1:e:85:MET:HG2	2.15	0.82
1:M:56:GLN:CD	1:j:48:LYS:N	2.37	0.82
1:S:56:GLN:CD	1:k:48:LYS:N	2.37	0.82
1:a:48:LYS:N	1:x:56:GLN:CD	2.37	0.82
1:d:125:THR:CB	1:v:551:THR:HG22	2.09	0.82
1:m:125:THR:CB	1:z:551:THR:HG22	2.09	0.82
1:o:85:MET:HG2	1:u:394:TYR:CD2	2.15	0.82
1:u:85:MET:HG2	1:z:394:TYR:CD2	2.15	0.82
1:0:85:MET:HG2	1:V:394:TYR:CD2	2.15	0.81
1:2:551:THR:CG2	1:T:125:THR:HA	2.08	0.81
1:4:105:ASN:OD1	1:4:159:LEU:HD11	1.80	0.81
1:B:85:MET:HG2	1:q:394:TYR:CD2	2.15	0.81
1:D:48:LYS:N	1:j:56:GLN:CD	2.37	0.81
1:E:157:LEU:CD2	1:F:561:TYR:HE1	1.73	0.81
1:E:394:TYR:CD2	1:F:85:MET:HG2	2.15	0.81
1:J:394:TYR:CD2	1:j:85:MET:HG2	2.15	0.81
1:Q:85:MET:HG2	1:g:394:TYR:CD2	2.15	0.81
1:b:85:MET:HG2	1:s:394:TYR:CD2	2.15	0.81
1:e:105:ASN:OD1	1:e:159:LEU:HD11	1.80	0.81
1:h:105:ASN:OD1	1:h:159:LEU:HD11	1.80	0.81
1:r:56:GLN:CD	1:w:48:LYS:N	2.37	0.81
1:0:105:ASN:OD1	1:0:159:LEU:HD11	1.80	0.81
1:5:48:LYS:N	1:E:56:GLN:CD	2.37	0.81
1:7:125:THR:CB	1:N:551:THR:HG22	2.09	0.81
1:7:561:TYR:HE1	1:P:157:LEU:CD2	1.73	0.81
1:I:105:ASN:OD1	1:I:159:LEU:HD11	1.80	0.81
1:K:242:SER:CB	1:r:94:LYS:H	1.86	0.81
1:M:85:MET:HG2	1:f:394:TYR:CD2	2.15	0.81
1:M:552:ILE:CG1	1:p:127:THR:HB	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:551:THR:HG22	1:y:125:THR:CB	2.09	0.81
1:W:550:SER:C	1:b:125:THR:CG2	2.51	0.81
1:d:48:LYS:N	1:p:56:GLN:CD	2.37	0.81
1:d:56:GLN:CD	1:f:48:LYS:N	2.37	0.81
1:d:105:ASN:OD1	1:d:159:LEU:HD11	1.80	0.81
1:d:394:TYR:CD2	1:q:85:MET:HG2	2.15	0.81
1:0:94:LYS:H	1:V:242:SER:CB	1.85	0.81
1:1:125:THR:CB	1:u:551:THR:HG22	2.09	0.81
1:2:157:LEU:CD2	1:K:561:TYR:HE1	1.73	0.81
1:4:394:TYR:CD2	1:z:85:MET:HG2	2.15	0.81
1:6:127:THR:HB	1:c:552:ILE:CG1	2.11	0.81
1:A:105:ASN:OD1	1:A:159:LEU:HD11	1.80	0.81
1:B:94:LYS:H	1:q:242:SER:CB	1.85	0.81
1:B:105:ASN:OD1	1:B:159:LEU:HD11	1.80	0.81
1:C:56:GLN:CD	1:J:48:LYS:N	2.37	0.81
1:C:105:ASN:OD1	1:C:159:LEU:HD11	1.80	0.81
1:C:157:LEU:CD2	1:L:561:TYR:HE1	1.73	0.81
1:C:394:TYR:CD2	1:L:85:MET:HG2	2.15	0.81
1:D:105:ASN:OD1	1:D:159:LEU:HD11	1.80	0.81
1:D:125:THR:CB	1:V:551:THR:HG22	2.09	0.81
1:D:127:THR:HB	1:V:552:ILE:CG1	2.11	0.81
1:D:394:TYR:CD2	1:p:85:MET:HG2	2.15	0.81
1:E:105:ASN:OD1	1:E:159:LEU:HD11	1.80	0.81
1:I:127:THR:HB	1:l:552:ILE:CG1	2.11	0.81
1:I:552:ILE:CG1	1:l:127:THR:HB	2.11	0.81
1:J:552:ILE:CG1	1:L:127:THR:HB	2.11	0.81
1:K:127:THR:HB	1:h:552:ILE:CG1	2.11	0.81
1:K:552:ILE:CG1	1:h:127:THR:HB	2.11	0.81
1:M:127:THR:HB	1:p:552:ILE:CG1	2.11	0.81
1:N:157:LEU:CD2	1:l:561:TYR:HE1	1.73	0.81
1:O:105:ASN:OD1	1:O:159:LEU:HD11	1.80	0.81
1:P:105:ASN:OD1	1:P:159:LEU:HD11	1.80	0.81
1:V:85:MET:HG2	1:j:394:TYR:CD2	2.15	0.81
1:V:105:ASN:OD1	1:V:159:LEU:HD11	1.80	0.81
1:W:105:ASN:OD1	1:W:159:LEU:HD11	1.80	0.81
1:Y:105:ASN:OD1	1:Y:159:LEU:HD11	1.80	0.81
1:Z:125:THR:CB	1:w:551:THR:HG22	2.09	0.81
1:b:105:ASN:OD1	1:b:159:LEU:HD11	1.80	0.81
1:f:105:ASN:OD1	1:f:159:LEU:HD11	1.80	0.81
1:f:125:THR:CB	1:q:551:THR:HG22	2.09	0.81
1:f:127:THR:HB	1:q:552:ILE:CG1	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:125:THR:HA	1:r:551:THR:CG2	2.08	0.81
1:g:551:THR:HG22	1:r:125:THR:CB	2.09	0.81
1:i:127:THR:HB	1:n:552:ILE:CG1	2.11	0.81
1:j:105:ASN:OD1	1:j:159:LEU:HD11	1.80	0.81
1:q:105:ASN:OD1	1:q:159:LEU:HD11	1.80	0.81
1:t:105:ASN:OD1	1:t:159:LEU:HD11	1.80	0.81
1:z:105:ASN:OD1	1:z:159:LEU:HD11	1.80	0.81
1:0:127:THR:HB	1:U:552:ILE:HG12	1.63	0.81
1:5:552:ILE:CG1	1:F:127:THR:HB	2.11	0.81
1:7:394:TYR:CD2	1:s:85:MET:HG2	2.15	0.81
1:N:105:ASN:OD1	1:N:159:LEU:HD11	1.80	0.81
1:T:105:ASN:OD1	1:T:159:LEU:HD11	1.80	0.81
1:T:394:TYR:CD2	1:U:85:MET:HG2	2.15	0.81
1:X:127:THR:HB	1:t:552:ILE:CG1	2.11	0.81
1:m:127:THR:HB	1:z:552:ILE:CG1	2.11	0.81
1:0:394:TYR:CD2	1:c:85:MET:HG2	2.15	0.81
1:0:552:ILE:HG12	1:U:127:THR:HB	1.63	0.81
1:1:551:THR:CG2	1:u:125:THR:HA	2.08	0.81
1:2:105:ASN:OD1	1:2:159:LEU:HD11	1.80	0.81
1:2:561:TYR:HE1	1:6:157:LEU:CD2	1.73	0.81
1:4:127:THR:HB	1:O:552:ILE:CG1	2.11	0.81
1:7:105:ASN:OD1	1:7:159:LEU:HD11	1.80	0.81
1:B:394:TYR:CD2	1:n:85:MET:HG2	2.15	0.81
1:E:552:ILE:CG1	1:k:127:THR:HB	2.11	0.81
1:K:105:ASN:OD1	1:K:159:LEU:HD11	1.80	0.81
1:P:552:ILE:CG1	1:e:127:THR:HB	2.11	0.81
1:W:148:ASP:OD1	1:W:185:SER:N	2.14	0.81
1:e:394:TYR:CD2	1:t:85:MET:HG2	2.15	0.81
1:i:85:MET:HG2	1:y:394:TYR:CD2	2.15	0.81
1:i:552:ILE:CG1	1:n:127:THR:HB	2.11	0.81
1:l:105:ASN:OD1	1:l:159:LEU:HD11	1.80	0.81
1:n:105:ASN:OD1	1:n:159:LEU:HD11	1.80	0.81
1:5:552:ILE:HG12	1:F:127:THR:HB	1.63	0.81
1:6:552:ILE:CG1	1:c:127:THR:HB	2.11	0.81
1:B:127:THR:HB	1:s:552:ILE:HG12	1.63	0.81
1:B:552:ILE:HG12	1:s:127:THR:HB	1.63	0.81
1:C:552:ILE:CG1	1:a:127:THR:HB	2.11	0.81
1:J:157:LEU:HD22	1:J:205:GLN:HB2	1.63	0.81
1:J:552:ILE:HG12	1:L:127:THR:HB	1.63	0.81
1:S:105:ASN:OD1	1:S:159:LEU:HD11	1.80	0.81
1:X:394:TYR:CD2	1:x:85:MET:HG2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:148:ASP:OD1	1:Y:185:SER:N	2.14	0.81
1:Z:105:ASN:OD1	1:Z:159:LEU:HD11	1.80	0.81
1:h:148:ASP:OD1	1:h:185:SER:N	2.13	0.81
1:x:105:ASN:OD1	1:x:159:LEU:HD11	1.80	0.81
1:y:105:ASN:OD1	1:y:159:LEU:HD11	1.80	0.81
1:1:105:ASN:OD1	1:1:159:LEU:HD11	1.80	0.81
1:2:127:THR:HB	1:T:552:ILE:CG1	2.11	0.81
1:5:157:LEU:HD22	1:5:205:GLN:HB2	1.63	0.81
1:6:85:MET:HG2	1:Z:394:TYR:CD2	2.15	0.81
1:A:552:ILE:CG1	1:Y:127:THR:HB	2.11	0.81
1:E:125:THR:CB	1:k:551:THR:HG22	2.09	0.81
1:G:551:THR:CG2	1:j:125:THR:HA	2.08	0.81
1:N:85:MET:HG2	1:i:394:TYR:CD2	2.15	0.81
1:Q:552:ILE:HG12	1:o:127:THR:HB	1.63	0.81
1:S:85:MET:HG2	1:m:394:TYR:CD2	2.15	0.81
1:c:105:ASN:OD1	1:c:159:LEU:HD11	1.80	0.81
1:d:157:LEU:HD22	1:d:205:GLN:HB2	1.63	0.81
1:h:85:MET:HG2	1:o:394:TYR:CD2	2.15	0.81
1:h:157:LEU:HD22	1:h:205:GLN:HB2	1.63	0.81
1:r:105:ASN:OD1	1:r:159:LEU:HD11	1.80	0.81
1:1:394:TYR:CD2	1:y:85:MET:HG2	2.15	0.81
1:2:85:MET:HG2	1:6:394:TYR:CD2	2.15	0.81
1:3:157:LEU:HD22	1:3:205:GLN:HB2	1.63	0.81
1:7:552:ILE:CG1	1:N:127:THR:HB	2.11	0.81
1:A:125:THR:CB	1:Y:551:THR:HG22	2.09	0.81
1:C:125:THR:CB	1:a:551:THR:HG22	2.09	0.81
1:D:552:ILE:CG1	1:V:127:THR:HB	2.11	0.81
1:H:157:LEU:HD22	1:H:205:GLN:HB2	1.63	0.81
1:I:157:LEU:HD22	1:I:205:GLN:HB2	1.63	0.81
1:J:127:THR:HB	1:L:552:ILE:CG1	2.11	0.81
1:Q:127:THR:HB	1:o:552:ILE:HG12	1.63	0.81
1:R:550:SER:C	1:y:125:THR:CG2	2.51	0.81
1:W:127:THR:HB	1:b:552:ILE:CG1	2.11	0.81
1:Z:125:THR:CG2	1:w:550:SER:C	2.51	0.81
1:j:157:LEU:HD22	1:j:205:GLN:HB2	1.63	0.81
1:1:127:THR:HB	1:u:552:ILE:HG12	1.63	0.81
1:4:550:SER:C	1:O:125:THR:CG2	2.51	0.81
1:5:127:THR:HB	1:F:552:ILE:CG1	2.11	0.81
1:6:127:THR:HB	1:c:552:ILE:HG12	1.63	0.81
1:I:85:MET:HG2	1:Q:394:TYR:CD2	2.15	0.81
1:N:561:TYR:HE1	1:i:157:LEU:CD2	1.73	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:157:LEU:HD11	1:O:219:ILE:HG23	1.63	0.81
1:P:125:THR:CG2	1:e:550:SER:C	2.51	0.81
1:W:551:THR:HG22	1:b:125:THR:CB	2.09	0.81
1:Y:85:MET:HG2	1:k:394:TYR:CD2	2.15	0.81
1:a:157:LEU:HD22	1:a:205:GLN:HB2	1.63	0.81
1:f:125:THR:CG2	1:q:550:SER:C	2.51	0.81
1:f:552:ILE:CG1	1:q:127:THR:HB	2.11	0.81
1:k:157:LEU:HD22	1:k:205:GLN:HB2	1.63	0.81
1:2:125:THR:CG2	1:T:550:SER:C	2.51	0.81
1:3:127:THR:HB	1:x:552:ILE:HG12	1.63	0.81
1:4:157:LEU:HD22	1:4:205:GLN:HB2	1.63	0.81
1:5:105:ASN:OD1	1:5:159:LEU:HD11	1.80	0.81
1:7:550:SER:C	1:N:125:THR:CG2	2.51	0.81
1:D:125:THR:CG2	1:V:550:SER:C	2.51	0.81
1:Q:105:ASN:OD1	1:Q:159:LEU:HD11	1.80	0.81
1:Z:85:MET:HG2	1:r:394:TYR:CD2	2.15	0.81
1:d:125:THR:HA	1:v:551:THR:CG2	2.08	0.81
1:g:552:ILE:HG12	1:r:127:THR:HB	1.63	0.81
1:g:552:ILE:CG1	1:r:127:THR:HB	2.11	0.81
1:m:550:SER:C	1:z:125:THR:CG2	2.51	0.81
1:0:127:THR:HB	1:U:552:ILE:CG1	2.11	0.80
1:6:157:LEU:HD22	1:6:205:GLN:HB2	1.63	0.80
1:M:105:ASN:OD1	1:M:159:LEU:HD11	1.80	0.80
1:P:157:LEU:HD11	1:P:219:ILE:HG23	1.63	0.80
1:R:157:LEU:HD11	1:R:219:ILE:HG23	1.63	0.80
1:W:85:MET:HG2	1:a:394:TYR:CD2	2.15	0.80
1:g:127:THR:HB	1:r:552:ILE:HG12	1.63	0.80
1:m:105:ASN:OD1	1:m:159:LEU:HD11	1.80	0.80
1:o:105:ASN:OD1	1:o:159:LEU:HD11	1.80	0.80
1:w:157:LEU:HD11	1:w:219:ILE:HG23	1.64	0.80
1:0:157:LEU:HD11	1:0:219:ILE:HG23	1.64	0.80
1:1:127:THR:HB	1:u:552:ILE:CG1	2.11	0.80
1:1:552:ILE:HG12	1:u:127:THR:HB	1.63	0.80
1:2:94:LYS:H	1:6:242:SER:CB	1.85	0.80
1:3:52:ILE:HB	1:X:52:ILE:HB	1.64	0.80
1:4:552:ILE:CG1	1:O:127:THR:HB	2.11	0.80
1:B:157:LEU:HD11	1:B:219:ILE:HG23	1.64	0.80
1:C:157:LEU:HD22	1:C:205:GLN:HB2	1.63	0.80
1:E:157:LEU:HD22	1:E:205:GLN:HB2	1.63	0.80
1:H:52:ILE:HB	1:m:52:ILE:HB	1.64	0.80
1:J:105:ASN:OD1	1:J:159:LEU:HD11	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:105:ASN:OD1	1:L:159:LEU:HD11	1.80	0.80
1:X:85:MET:HG2	1:w:394:TYR:CD2	2.15	0.80
1:d:127:THR:HB	1:v:552:ILE:HG12	1.63	0.80
1:e:157:LEU:HD22	1:e:205:GLN:HB2	1.63	0.80
1:i:127:THR:HB	1:n:552:ILE:HG12	1.63	0.80
1:i:157:LEU:HD22	1:i:205:GLN:HB2	1.63	0.80
1:p:105:ASN:OD1	1:p:159:LEU:HD11	1.80	0.80
1:v:157:LEU:HD22	1:v:205:GLN:HB2	1.63	0.80
1:B:127:THR:HB	1:s:552:ILE:CG1	2.11	0.80
1:B:157:LEU:HD22	1:B:205:GLN:HB2	1.63	0.80
1:G:157:LEU:HD22	1:G:205:GLN:HB2	1.63	0.80
1:R:394:TYR:CD2	1:m:85:MET:HG2	2.15	0.80
1:R:552:ILE:CG1	1:y:127:THR:HB	2.11	0.80
1:X:105:ASN:OD1	1:X:159:LEU:HD11	1.80	0.80
1:X:157:LEU:HD22	1:X:205:GLN:HB2	1.63	0.80
1:Z:127:THR:HB	1:w:552:ILE:CG1	2.11	0.80
1:a:105:ASN:OD1	1:a:159:LEU:HD11	1.80	0.80
1:O:157:LEU:HD22	1:O:205:GLN:HB2	1.63	0.80
1:C:127:THR:HB	1:a:552:ILE:HG12	1.63	0.80
1:D:127:THR:HB	1:V:552:ILE:HG12	1.63	0.80
1:E:550:SER:C	1:k:125:THR:CG2	2.51	0.80
1:F:105:ASN:OD1	1:F:159:LEU:HD11	1.80	0.80
1:G:552:ILE:HG12	1:j:127:THR:HB	1.63	0.80
1:H:127:THR:HB	1:S:552:ILE:HG12	1.63	0.80
1:M:561:TYR:HE1	1:f:157:LEU:CD2	1.73	0.80
1:N:94:LYS:H	1:i:242:SER:CB	1.85	0.80
1:P:127:THR:HB	1:e:552:ILE:CG1	2.11	0.80
1:Z:157:LEU:HD22	1:Z:205:GLN:HB2	1.63	0.80
1:a:157:LEU:HD11	1:a:219:ILE:HG23	1.63	0.80
1:k:105:ASN:OD1	1:k:159:LEU:HD11	1.80	0.80
1:k:157:LEU:HD11	1:k:219:ILE:HG23	1.64	0.80
1:m:157:LEU:HD22	1:m:205:GLN:HB2	1.63	0.80
1:y:157:LEU:HD22	1:y:205:GLN:HB2	1.63	0.80
1:O:552:ILE:CG1	1:U:127:THR:HB	2.11	0.80
1:2:552:ILE:CG1	1:T:127:THR:HB	2.11	0.80
1:4:157:LEU:HD11	1:4:219:ILE:HG23	1.64	0.80
1:4:212:PHE:CZ	1:O:560:THR:OG1	2.26	0.80
1:B:552:ILE:CG1	1:s:127:THR:HB	2.11	0.80
1:H:552:ILE:CG1	1:S:127:THR:HB	2.11	0.80
1:K:127:THR:HB	1:h:552:ILE:HG12	1.63	0.80
1:Q:52:ILE:HB	1:l:52:ILE:HB	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:52:ILE:HB	1:u:52:ILE:HB	1.64	0.80
1:S:157:LEU:HD22	1:S:205:GLN:HB2	1.63	0.80
1:U:148:ASP:OD1	1:U:185:SER:N	2.14	0.80
1:a:52:ILE:HB	1:x:52:ILE:HB	1.64	0.80
1:d:127:THR:HB	1:v:552:ILE:CG1	2.11	0.80
1:e:157:LEU:HD11	1:e:219:ILE:HG23	1.63	0.80
1:u:148:ASP:OD1	1:u:185:SER:N	2.14	0.80
1:x:157:LEU:HD22	1:x:205:GLN:HB2	1.63	0.80
1:3:552:ILE:CG1	1:x:127:THR:HB	2.11	0.80
1:4:92:PRO:HB2	1:h:243:THR:OG1	1.82	0.80
1:7:92:PRO:HB2	1:P:243:THR:OG1	1.82	0.80
1:7:127:THR:HB	1:N:552:ILE:HG12	1.63	0.80
1:7:157:LEU:HD22	1:7:205:GLN:HB2	1.63	0.80
1:E:127:THR:HB	1:k:552:ILE:HG12	1.63	0.80
1:G:552:ILE:CG1	1:j:127:THR:HB	2.11	0.80
1:I:243:THR:OG1	1:e:92:PRO:HB2	1.82	0.80
1:I:552:ILE:HG12	1:l:127:THR:HB	1.63	0.80
1:K:52:ILE:HB	1:o:52:ILE:HB	1.64	0.80
1:K:157:LEU:HD22	1:K:205:GLN:HB2	1.63	0.80
1:O:243:THR:OG1	1:T:92:PRO:HB2	1.82	0.80
1:S:52:ILE:HB	1:k:52:ILE:HB	1.64	0.80
1:S:157:LEU:HD11	1:S:219:ILE:HG23	1.63	0.80
1:U:105:ASN:OD1	1:U:159:LEU:HD11	1.80	0.80
1:X:550:SER:C	1:t:125:THR:CG2	2.51	0.80
1:f:127:THR:HB	1:q:552:ILE:HG12	1.63	0.80
1:g:92:PRO:HB2	1:t:243:THR:OG1	1.82	0.80
1:n:157:LEU:HD11	1:n:219:ILE:HG23	1.63	0.80
1:u:92:PRO:HB2	1:z:243:THR:OG1	1.82	0.80
1:x:157:LEU:HD11	1:x:219:ILE:HG23	1.63	0.80
1:1:52:ILE:HB	1:R:52:ILE:HB	1.64	0.80
1:2:52:ILE:HB	1:O:52:ILE:HB	1.64	0.80
1:2:552:ILE:HG12	1:T:127:THR:HB	1.63	0.80
1:3:105:ASN:OD1	1:3:159:LEU:HD11	1.80	0.80
1:7:127:THR:HB	1:N:552:ILE:CG1	2.11	0.80
1:C:550:SER:C	1:a:125:THR:CG2	2.51	0.80
1:G:243:THR:OG1	1:a:92:PRO:HB2	1.82	0.80
1:H:105:ASN:OD1	1:H:159:LEU:HD11	1.80	0.80
1:H:243:THR:OG1	1:O:92:PRO:HB2	1.82	0.80
1:H:394:TYR:CD2	1:O:85:MET:HG2	2.15	0.80
1:W:92:PRO:HB2	1:a:243:THR:OG1	1.82	0.80
1:a:52:ILE:HB	1:b:52:ILE:HB	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:52:ILE:HB	1:o:52:ILE:HB	1.64	0.80
1:g:148:ASP:OD1	1:g:185:SER:N	2.14	0.80
1:k:92:PRO:HB2	1:v:243:THR:OG1	1.82	0.80
1:r:52:ILE:HB	1:w:52:ILE:HB	1.64	0.80
1:s:105:ASN:OD1	1:s:159:LEU:HD11	1.80	0.80
1:u:105:ASN:OD1	1:u:159:LEU:HD11	1.80	0.80
1:1:552:ILE:CG1	1:u:127:THR:HB	2.11	0.80
1:3:243:THR:OG1	1:P:92:PRO:HB2	1.82	0.80
1:7:94:LYS:H	1:P:242:SER:CB	1.86	0.80
1:A:243:THR:OG1	1:H:92:PRO:HB2	1.82	0.80
1:D:92:PRO:HB2	1:Y:243:THR:OG1	1.82	0.80
1:I:52:ILE:HB	1:P:52:ILE:HB	1.64	0.80
1:Q:92:PRO:HB2	1:g:243:THR:OG1	1.82	0.80
1:Q:552:ILE:CG1	1:o:127:THR:HB	2.11	0.80
1:R:243:THR:OG1	1:m:92:PRO:HB2	1.82	0.80
1:V:148:ASP:OD1	1:V:185:SER:N	2.14	0.80
1:W:157:LEU:HD11	1:W:219:ILE:HG23	1.64	0.80
1:W:243:THR:OG1	1:f:92:PRO:HB2	1.82	0.80
1:Y:92:PRO:HB2	1:k:243:THR:OG1	1.82	0.80
1:Z:552:ILE:HB	1:w:127:THR:HA	1.64	0.80
1:c:157:LEU:HD11	1:c:219:ILE:HG23	1.64	0.80
1:g:105:ASN:OD1	1:g:159:LEU:HD11	1.80	0.80
1:i:105:ASN:OD1	1:i:159:LEU:HD11	1.80	0.80
1:i:157:LEU:HD11	1:i:219:ILE:HG23	1.63	0.80
1:l:157:LEU:HD22	1:l:205:GLN:HB2	1.63	0.80
1:n:157:LEU:HD22	1:n:205:GLN:HB2	1.63	0.80
1:o:92:PRO:HB2	1:u:243:THR:OG1	1.82	0.80
1:s:148:ASP:OD1	1:s:185:SER:N	2.14	0.80
1:y:157:LEU:HD11	1:y:219:ILE:HG23	1.64	0.80
1:1:52:ILE:HB	1:z:52:ILE:HB	1.64	0.80
1:3:92:PRO:HB2	1:b:243:THR:OG1	1.82	0.80
1:3:394:TYR:CD2	1:P:85:MET:HG2	2.15	0.80
1:A:52:ILE:HB	1:k:52:ILE:HB	1.64	0.80
1:A:127:THR:HB	1:Y:552:ILE:CG1	2.11	0.80
1:E:127:THR:HB	1:k:552:ILE:CG1	2.11	0.80
1:N:52:ILE:HB	1:P:52:ILE:HB	1.64	0.80
1:Q:127:THR:HB	1:o:552:ILE:CG1	2.11	0.80
1:R:127:THR:HA	1:y:552:ILE:HB	1.64	0.80
1:R:127:THR:HB	1:y:552:ILE:CG1	2.11	0.80
1:T:157:LEU:HD22	1:T:205:GLN:HB2	1.63	0.80
1:X:92:PRO:HB2	1:w:243:THR:OG1	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:552:ILE:HB	1:t:127:THR:HA	1.64	0.80
1:g:561:TYR:HE1	1:t:157:LEU:CD2	1.73	0.80
1:i:92:PRO:HB2	1:y:243:THR:OG1	1.82	0.80
1:m:552:ILE:HB	1:z:127:THR:HA	1.64	0.80
1:q:52:ILE:HB	1:s:52:ILE:HB	1.64	0.80
1:q:148:ASP:OD1	1:q:185:SER:N	2.14	0.80
1:r:52:ILE:HB	1:t:52:ILE:HB	1.64	0.80
1:v:105:ASN:OD1	1:v:159:LEU:HD11	1.80	0.80
1:l:92:PRO:HB2	1:l:243:THR:OG1	1.82	0.80
1:2:157:LEU:HD11	1:2:219:ILE:HG23	1.63	0.80
1:3:148:ASP:OD1	1:3:185:SER:N	2.14	0.80
1:6:92:PRO:HB2	1:Z:243:THR:OG1	1.82	0.80
1:6:105:ASN:OD1	1:6:159:LEU:HD11	1.80	0.80
1:6:127:THR:HA	1:c:552:ILE:HB	1.64	0.80
1:6:157:LEU:HD11	1:6:219:ILE:HG23	1.63	0.80
1:E:243:THR:OG1	1:F:92:PRO:HB2	1.82	0.80
1:G:92:PRO:HB2	1:M:243:THR:OG1	1.82	0.80
1:N:157:LEU:HD11	1:N:219:ILE:HG23	1.63	0.80
1:O:52:ILE:HB	1:h:52:ILE:HB	1.64	0.80
1:O:157:LEU:HD22	1:O:205:GLN:HB2	1.63	0.80
1:Q:127:THR:HA	1:o:552:ILE:HB	1.64	0.80
1:Q:157:LEU:HD11	1:Q:219:ILE:HG23	1.63	0.80
1:U:52:ILE:HB	1:V:52:ILE:HB	1.64	0.80
1:Y:157:LEU:HD11	1:Y:219:ILE:HG23	1.64	0.80
1:Z:127:THR:HB	1:w:552:ILE:HG12	1.63	0.80
1:Z:157:LEU:HD11	1:Z:219:ILE:HG23	1.64	0.80
1:Z:552:ILE:CG1	1:w:127:THR:HB	2.11	0.80
1:c:157:LEU:HD22	1:c:205:GLN:HB2	1.63	0.80
1:i:127:THR:HA	1:n:552:ILE:HB	1.64	0.80
1:i:148:ASP:OD1	1:i:185:SER:N	2.14	0.80
1:0:552:ILE:HB	1:U:127:THR:HA	1.64	0.79
1:2:127:THR:HB	1:T:552:ILE:HG12	1.63	0.79
1:2:243:THR:OG1	1:K:92:PRO:HB2	1.82	0.79
1:3:127:THR:HB	1:x:552:ILE:CG1	2.11	0.79
1:5:52:ILE:HB	1:E:52:ILE:HB	1.64	0.79
1:5:243:THR:OG1	1:d:92:PRO:HB2	1.82	0.79
1:6:148:ASP:OD1	1:6:185:SER:N	2.14	0.79
1:C:52:ILE:HB	1:J:52:ILE:HB	1.64	0.79
1:C:127:THR:HB	1:a:552:ILE:CG1	2.11	0.79
1:C:243:THR:OG1	1:L:92:PRO:HB2	1.82	0.79
1:G:105:ASN:OD1	1:G:159:LEU:HD11	1.80	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:552:ILE:HB	1:j:127:THR:HA	1.64	0.79
1:K:243:THR:OG1	1:r:92:PRO:HB2	1.82	0.79
1:N:92:PRO:HB2	1:i:243:THR:OG1	1.82	0.79
1:P:157:LEU:HD22	1:P:205:GLN:HB2	1.63	0.79
1:Q:552:ILE:HB	1:o:127:THR:HA	1.64	0.79
1:R:552:ILE:HG12	1:y:127:THR:HB	1.63	0.79
1:T:243:THR:OG1	1:U:92:PRO:HB2	1.82	0.79
1:W:552:ILE:CG1	1:b:127:THR:HB	2.11	0.79
1:a:148:ASP:OD1	1:a:185:SER:N	2.13	0.79
1:b:157:LEU:HD11	1:b:219:ILE:HG23	1.64	0.79
1:f:549:MET:HE2	1:q:125:THR:HG1	1.44	0.79
1:g:127:THR:HB	1:r:552:ILE:CG1	2.11	0.79
1:h:92:PRO:HB2	1:o:243:THR:OG1	1.82	0.79
1:m:552:ILE:CG1	1:z:127:THR:HB	2.11	0.79
1:n:52:ILE:HB	1:y:52:ILE:HB	1.64	0.79
1:o:157:LEU:HD11	1:o:219:ILE:HG23	1.64	0.79
1:p:243:THR:OG1	1:v:92:PRO:HB2	1.82	0.79
1:w:105:ASN:OD1	1:w:159:LEU:HD11	1.80	0.79
1:2:92:PRO:HB2	1:6:243:THR:OG1	1.82	0.79
1:3:157:LEU:HD11	1:3:219:ILE:HG23	1.63	0.79
1:5:127:THR:HA	1:F:552:ILE:HB	1.64	0.79
1:7:243:THR:OG1	1:s:92:PRO:HB2	1.82	0.79
1:B:552:ILE:HB	1:s:127:THR:HA	1.64	0.79
1:D:52:ILE:HG22	1:M:52:ILE:HG12	1.65	0.79
1:H:148:ASP:OD1	1:H:185:SER:N	2.14	0.79
1:I:92:PRO:HB2	1:Q:243:THR:OG1	1.82	0.79
1:N:243:THR:OG1	1:l:92:PRO:HB2	1.82	0.79
1:O:242:SER:CB	1:T:94:LYS:H	1.85	0.79
1:R:105:ASN:OD1	1:R:159:LEU:HD11	1.80	0.79
1:X:552:ILE:CG1	1:t:127:THR:HB	2.11	0.79
1:Z:52:ILE:HB	1:c:52:ILE:HB	1.64	0.79
1:f:52:ILE:HG22	1:p:52:ILE:HG12	1.65	0.79
1:o:148:ASP:OD1	1:o:185:SER:N	2.14	0.79
1:r:157:LEU:HD22	1:r:205:GLN:HB2	1.63	0.79
1:0:52:ILE:HB	1:6:52:ILE:HB	1.64	0.79
1:3:52:ILE:HG22	1:e:52:ILE:HG12	1.65	0.79
1:4:52:ILE:HG12	1:H:52:ILE:HG22	1.65	0.79
1:5:87:GLU:OE2	1:n:395:LYS:CD	2.31	0.79
1:5:92:PRO:HB2	1:n:243:THR:OG1	1.82	0.79
1:A:87:GLU:OE2	1:U:395:LYS:CD	2.31	0.79
1:A:157:LEU:HD11	1:A:219:ILE:HG23	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:ILE:HB	1:i:52:ILE:HB	1.64	0.79
1:G:87:GLU:OE2	1:M:395:LYS:CD	2.31	0.79
1:H:157:LEU:HD11	1:H:219:ILE:HG23	1.63	0.79
1:J:127:THR:HA	1:L:552:ILE:HB	1.64	0.79
1:P:552:ILE:HB	1:e:127:THR:HA	1.64	0.79
1:b:87:GLU:OE2	1:s:395:LYS:CD	2.31	0.79
1:d:127:THR:HA	1:v:552:ILE:HB	1.64	0.79
1:d:552:ILE:CG1	1:v:127:THR:HB	2.11	0.79
1:k:148:ASP:OD1	1:k:185:SER:N	2.13	0.79
1:p:395:LYS:CD	1:v:87:GLU:OE2	2.31	0.79
1:0:243:THR:OG1	1:c:92:PRO:HB2	1.82	0.79
1:1:157:LEU:HD22	1:1:205:GLN:HB2	1.63	0.79
1:2:394:TYR:CD2	1:K:85:MET:HG2	2.15	0.79
1:4:127:THR:HA	1:O:552:ILE:HB	1.64	0.79
1:4:148:ASP:OD1	1:4:185:SER:N	2.13	0.79
1:7:127:THR:HA	1:N:552:ILE:HB	1.64	0.79
1:7:552:ILE:HG12	1:N:127:THR:HB	1.63	0.79
1:B:148:ASP:OD1	1:B:185:SER:N	2.14	0.79
1:G:395:LYS:CD	1:a:87:GLU:OE2	2.31	0.79
1:H:127:THR:HB	1:S:552:ILE:CG1	2.11	0.79
1:J:87:GLU:OE2	1:c:395:LYS:CD	2.31	0.79
1:J:92:PRO:HB2	1:c:243:THR:OG1	1.82	0.79
1:J:148:ASP:OD1	1:J:185:SER:N	2.13	0.79
1:J:243:THR:OG1	1:j:92:PRO:HB2	1.82	0.79
1:L:243:THR:OG1	1:w:92:PRO:HB2	1.82	0.79
1:R:552:ILE:HB	1:y:127:THR:HA	1.64	0.79
1:V:52:ILE:HG12	1:Y:52:ILE:HG22	1.65	0.79
1:W:52:ILE:HG22	1:q:52:ILE:HG12	1.65	0.79
1:a:52:ILE:HG12	1:x:52:ILE:HG22	1.65	0.79
1:c:148:ASP:OD1	1:c:185:SER:N	2.14	0.79
1:k:87:GLU:OE2	1:v:395:LYS:CD	2.31	0.79
1:l:148:ASP:OD1	1:l:185:SER:N	2.13	0.79
1:u:87:GLU:OE2	1:z:395:LYS:CD	2.31	0.79
1:w:157:LEU:HD22	1:w:205:GLN:HB2	1.63	0.79
1:0:148:ASP:OD1	1:0:185:SER:N	2.14	0.79
1:2:552:ILE:HB	1:T:127:THR:HA	1.64	0.79
1:C:52:ILE:HG22	1:J:52:ILE:HG12	1.65	0.79
1:C:127:THR:HA	1:a:552:ILE:HB	1.64	0.79
1:C:157:LEU:HD11	1:C:219:ILE:HG23	1.63	0.79
1:D:157:LEU:HD11	1:D:219:ILE:HG23	1.64	0.79
1:E:157:LEU:HD11	1:E:219:ILE:HG23	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:THR:OG1	1:R:92:PRO:HB2	1.82	0.79
1:G:127:THR:HB	1:j:552:ILE:CG1	2.11	0.79
1:K:148:ASP:OD1	1:K:185:SER:N	2.14	0.79
1:N:394:TYR:CD2	1:l:85:MET:HG2	2.15	0.79
1:P:127:THR:HB	1:e:552:ILE:HG12	1.63	0.79
1:P:552:ILE:HG12	1:e:127:THR:HB	1.63	0.79
1:Q:148:ASP:OD1	1:Q:185:SER:N	2.14	0.79
1:R:157:LEU:HD22	1:R:205:GLN:HB2	1.63	0.79
1:S:52:ILE:HG22	1:k:52:ILE:HG12	1.65	0.79
1:U:157:LEU:HD11	1:U:219:ILE:HG23	1.63	0.79
1:g:87:GLU:OE2	1:t:395:LYS:CD	2.31	0.79
1:g:157:LEU:HD22	1:g:205:GLN:HB2	1.63	0.79
1:i:552:ILE:HG12	1:n:127:THR:HB	1.63	0.79
1:n:148:ASP:OD1	1:n:185:SER:N	2.14	0.79
1:s:157:LEU:HD11	1:s:219:ILE:HG23	1.64	0.79
1:u:561:TYR:HE1	1:z:157:LEU:CD2	1.73	0.79
1:5:52:ILE:HG12	1:E:52:ILE:HG22	1.65	0.79
1:5:127:THR:HB	1:F:552:ILE:HG12	1.63	0.79
1:5:148:ASP:OD1	1:5:185:SER:N	2.13	0.79
1:6:52:ILE:HG22	1:T:52:ILE:HG12	1.65	0.79
1:A:127:THR:HA	1:Y:552:ILE:HB	1.64	0.79
1:B:243:THR:OG1	1:n:92:PRO:HB2	1.82	0.79
1:D:243:THR:OG1	1:p:92:PRO:HB2	1.82	0.79
1:F:157:LEU:CD2	1:R:561:TYR:HE1	1.73	0.79
1:K:552:ILE:HG12	1:h:127:THR:HB	1.63	0.79
1:R:52:ILE:HB	1:z:52:ILE:HB	1.64	0.79
1:U:52:ILE:HG22	1:Y:52:ILE:HG12	1.65	0.79
1:Z:127:THR:HA	1:w:552:ILE:HB	1.64	0.79
1:r:52:ILE:HG22	1:w:52:ILE:HG12	1.65	0.79
1:1:52:ILE:HG22	1:R:52:ILE:HG12	1.65	0.79
1:5:52:ILE:HB	1:v:52:ILE:HB	1.64	0.79
1:5:561:TYR:HE1	1:n:157:LEU:CD2	1.73	0.79
1:7:52:ILE:HG12	1:i:52:ILE:HG22	1.65	0.79
1:E:127:THR:HA	1:k:552:ILE:HB	1.64	0.79
1:I:52:ILE:HG22	1:P:52:ILE:HG12	1.65	0.79
1:I:127:THR:HA	1:l:552:ILE:HB	1.64	0.79
1:L:157:LEU:CD2	1:w:561:TYR:HE1	1.73	0.79
1:M:92:PRO:HB2	1:f:243:THR:OG1	1.82	0.79
1:N:52:ILE:HG12	1:P:52:ILE:HG22	1.65	0.79
1:N:148:ASP:OD1	1:N:185:SER:N	2.13	0.79
1:Q:157:LEU:HD22	1:Q:205:GLN:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:52:ILE:HG12	1:s:52:ILE:HG22	1.65	0.79
1:X:87:GLU:OE2	1:w:395:LYS:CD	2.31	0.79
1:b:157:LEU:HD22	1:b:205:GLN:HB2	1.63	0.79
1:f:157:LEU:HD11	1:f:219:ILE:HG23	1.64	0.79
1:g:552:ILE:HB	1:r:127:THR:HA	1.64	0.79
1:i:87:GLU:OE2	1:y:395:LYS:CD	2.31	0.79
1:l:52:ILE:HB	1:u:52:ILE:HB	1.64	0.79
1:o:157:LEU:HD22	1:o:205:GLN:HB2	1.63	0.79
1:q:157:LEU:HD11	1:q:219:ILE:HG23	1.64	0.79
1:0:395:LYS:CD	1:c:87:GLU:OE2	2.31	0.79
1:2:52:ILE:HB	1:h:52:ILE:HB	1.64	0.79
1:2:52:ILE:HG12	1:O:52:ILE:HG22	1.65	0.79
1:3:52:ILE:HB	1:e:52:ILE:HB	1.64	0.79
1:3:87:GLU:OE2	1:b:395:LYS:CD	2.31	0.79
1:4:127:THR:HB	1:O:552:ILE:HG12	1.63	0.79
1:6:87:GLU:OE2	1:Z:395:LYS:CD	2.31	0.79
1:6:552:ILE:HG12	1:c:127:THR:HB	1.63	0.79
1:A:395:LYS:CD	1:H:87:GLU:OE2	2.31	0.79
1:B:395:LYS:CD	1:n:87:GLU:OE2	2.31	0.79
1:D:52:ILE:HB	1:M:52:ILE:HB	1.64	0.79
1:G:52:ILE:HB	1:J:52:ILE:HB	1.64	0.79
1:H:395:LYS:CD	1:O:87:GLU:OE2	2.31	0.79
1:J:127:THR:HB	1:L:552:ILE:HG12	1.63	0.79
1:O:52:ILE:HG12	1:h:52:ILE:HG22	1.65	0.79
1:R:395:LYS:CD	1:m:87:GLU:OE2	2.31	0.79
1:S:92:PRO:HB2	1:m:243:THR:OG1	1.82	0.79
1:W:87:GLU:OE2	1:a:395:LYS:CD	2.31	0.79
1:W:552:ILE:HB	1:b:127:THR:HA	1.64	0.79
1:X:395:LYS:CD	1:x:87:GLU:OE2	2.31	0.79
1:d:552:ILE:HG12	1:v:127:THR:HB	1.63	0.79
1:f:52:ILE:HB	1:p:52:ILE:HB	1.64	0.79
1:t:52:ILE:HB	1:w:52:ILE:HB	1.64	0.79
1:t:157:LEU:HD22	1:t:205:GLN:HB2	1.63	0.79
1:u:157:LEU:HD22	1:u:205:GLN:HB2	1.63	0.79
1:2:148:ASP:OD1	1:2:185:SER:N	2.13	0.79
1:3:395:LYS:CD	1:P:87:GLU:OE2	2.31	0.79
1:5:157:LEU:HD11	1:5:219:ILE:HG23	1.63	0.79
1:A:157:LEU:CD2	1:H:561:TYR:HE1	1.73	0.79
1:C:92:PRO:HB2	1:x:243:THR:OG1	1.82	0.79
1:E:92:PRO:HB2	1:S:243:THR:OG1	1.82	0.79
1:I:52:ILE:HB	1:N:52:ILE:HB	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:THR:HB	1:l:552:ILE:HG12	1.63	0.79
1:J:157:LEU:HD11	1:J:219:ILE:HG23	1.63	0.79
1:K:52:ILE:HB	1:g:52:ILE:HB	1.64	0.79
1:K:552:ILE:HB	1:h:127:THR:HA	1.64	0.79
1:M:127:THR:HA	1:p:552:ILE:HB	1.64	0.79
1:Q:52:ILE:HG12	1:u:52:ILE:HG22	1.65	0.79
1:S:87:GLU:OE2	1:m:395:LYS:CD	2.31	0.79
1:V:157:LEU:HD11	1:V:219:ILE:HG23	1.64	0.79
1:X:52:ILE:HB	1:e:52:ILE:HB	1.64	0.79
1:X:243:THR:OG1	1:x:92:PRO:HB2	1.82	0.79
1:Y:87:GLU:OE2	1:k:395:LYS:CD	2.31	0.79
1:Y:157:LEU:HD22	1:Y:205:GLN:HB2	1.63	0.79
1:0:87:GLU:OE2	1:V:395:LYS:CD	2.31	0.79
1:1:127:THR:HA	1:u:552:ILE:HB	1.64	0.79
1:2:127:THR:HA	1:T:552:ILE:HB	1.64	0.79
1:4:52:ILE:HB	1:H:52:ILE:HB	1.64	0.79
1:A:52:ILE:HB	1:S:52:ILE:HB	1.64	0.79
1:G:127:THR:HB	1:j:552:ILE:HG12	1.63	0.79
1:K:127:THR:HA	1:h:552:ILE:HB	1.64	0.79
1:L:395:LYS:CD	1:w:87:GLU:OE2	2.31	0.79
1:M:552:ILE:HB	1:p:127:THR:HA	1.64	0.79
1:V:157:LEU:HD22	1:V:205:GLN:HB2	1.63	0.79
1:Z:87:GLU:OE2	1:r:395:LYS:CD	2.31	0.79
1:b:52:ILE:HB	1:x:52:ILE:HB	1.64	0.79
1:q:157:LEU:HD22	1:q:205:GLN:HB2	1.63	0.79
1:t:157:LEU:HD11	1:t:219:ILE:HG23	1.64	0.79
1:u:157:LEU:HD11	1:u:219:ILE:HG23	1.63	0.79
1:1:87:GLU:OE2	1:l:395:LYS:CD	2.31	0.78
1:1:395:LYS:CD	1:y:87:GLU:OE2	2.31	0.78
1:2:157:LEU:HD22	1:2:205:GLN:HB2	1.63	0.78
1:4:52:ILE:HB	1:m:52:ILE:HB	1.64	0.78
1:7:52:ILE:HB	1:B:52:ILE:HB	1.64	0.78
1:7:552:ILE:HB	1:N:127:THR:HA	1.64	0.78
1:A:92:PRO:HB2	1:U:243:THR:OG1	1.82	0.78
1:A:157:LEU:HD22	1:A:205:GLN:HB2	1.63	0.78
1:B:87:GLU:OE2	1:q:395:LYS:CD	2.31	0.78
1:I:552:ILE:HB	1:l:127:THR:HA	1.64	0.78
1:K:395:LYS:CD	1:r:87:GLU:OE2	2.31	0.78
1:N:157:LEU:HD22	1:N:205:GLN:HB2	1.63	0.78
1:e:148:ASP:OD1	1:e:185:SER:N	2.13	0.78
1:g:52:ILE:HG22	1:o:52:ILE:HG12	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:157:LEU:HD11	1:l:219:ILE:HG23	1.63	0.78
1:p:157:LEU:HD22	1:p:205:GLN:HB2	1.63	0.78
1:s:157:LEU:HD22	1:s:205:GLN:HB2	1.63	0.78
1:v:157:LEU:HD11	1:v:219:ILE:HG23	1.63	0.78
1:z:157:LEU:HD22	1:z:205:GLN:HB2	1.63	0.78
1:3:561:TYR:HE1	1:b:157:LEU:CD2	1.73	0.78
1:B:92:PRO:HB2	1:q:243:THR:OG1	1.82	0.78
1:D:552:ILE:HB	1:V:127:THR:HA	1.64	0.78
1:F:157:LEU:HD11	1:F:219:ILE:HG23	1.63	0.78
1:F:395:LYS:CD	1:R:87:GLU:OE2	2.31	0.78
1:G:157:LEU:HD11	1:G:219:ILE:HG23	1.63	0.78
1:M:157:LEU:HD11	1:M:219:ILE:HG23	1.63	0.78
1:M:157:LEU:HD22	1:M:205:GLN:HB2	1.63	0.78
1:W:127:THR:HA	1:b:552:ILE:HB	1.64	0.78
1:W:157:LEU:HD22	1:W:205:GLN:HB2	1.63	0.78
1:X:52:ILE:HG12	1:e:52:ILE:HG22	1.65	0.78
1:g:157:LEU:HD11	1:g:219:ILE:HG23	1.64	0.78
1:z:157:LEU:HD11	1:z:219:ILE:HG23	1.64	0.78
1:3:208:SER:HB3	1:e:55:TRP:CH2	2.19	0.78
1:4:52:ILE:HG22	1:m:52:ILE:HG12	1.65	0.78
1:A:552:ILE:HB	1:Y:127:THR:HA	1.64	0.78
1:C:148:ASP:OD1	1:C:185:SER:N	2.13	0.78
1:E:395:LYS:CD	1:F:87:GLU:OE2	2.31	0.78
1:F:55:TRP:CH2	1:n:208:SER:HB3	2.19	0.78
1:M:87:GLU:OE2	1:f:395:LYS:CD	2.31	0.78
1:P:148:ASP:OD1	1:P:185:SER:N	2.13	0.78
1:Z:92:PRO:HB2	1:r:243:THR:OG1	1.82	0.78
1:b:92:PRO:HB2	1:s:243:THR:OG1	1.82	0.78
1:0:52:ILE:HB	1:T:52:ILE:HB	1.64	0.78
1:0:92:PRO:HB2	1:V:243:THR:OG1	1.82	0.78
1:1:55:TRP:CH2	1:z:208:SER:HB3	2.19	0.78
1:1:243:THR:OG1	1:y:92:PRO:HB2	1.82	0.78
1:2:52:ILE:HG22	1:h:52:ILE:HG12	1.65	0.78
1:4:55:TRP:CH2	1:H:208:SER:HB3	2.19	0.78
1:5:395:LYS:CD	1:d:87:GLU:OE2	2.31	0.78
1:6:208:SER:HB3	1:T:55:TRP:CH2	2.19	0.78
1:7:157:LEU:HD11	1:7:219:ILE:HG23	1.64	0.78
1:C:87:GLU:OE2	1:x:395:LYS:CD	2.31	0.78
1:C:395:LYS:CD	1:L:87:GLU:OE2	2.31	0.78
1:D:395:LYS:CD	1:p:87:GLU:OE2	2.31	0.78
1:J:561:TYR:HE1	1:c:157:LEU:CD2	1.73	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:52:ILE:HG12	1:o:52:ILE:HG22	1.65	0.78
1:K:157:LEU:HD11	1:K:219:ILE:HG23	1.63	0.78
1:L:55:TRP:CH2	1:c:208:SER:HB3	2.19	0.78
1:O:55:TRP:CH2	1:h:208:SER:HB3	2.19	0.78
1:U:157:LEU:HD22	1:U:205:GLN:HB2	1.63	0.78
1:W:395:LYS:CD	1:f:87:GLU:OE2	2.31	0.78
1:e:395:LYS:CD	1:t:87:GLU:OE2	2.31	0.78
1:f:552:ILE:HB	1:q:127:THR:HA	1.64	0.78
1:p:157:LEU:HD11	1:p:219:ILE:HG23	1.63	0.78
1:1:208:SER:HB3	1:R:55:TRP:CH2	2.19	0.78
1:4:243:THR:OG1	1:z:92:PRO:HB2	1.82	0.78
1:4:395:LYS:CD	1:z:87:GLU:OE2	2.31	0.78
1:5:208:SER:HB3	1:v:55:TRP:CH2	2.19	0.78
1:7:55:TRP:CH2	1:i:208:SER:HB3	2.19	0.78
1:D:87:GLU:OE2	1:Y:395:LYS:CD	2.31	0.78
1:E:87:GLU:OE2	1:S:395:LYS:CD	2.31	0.78
1:H:552:ILE:HB	1:S:127:THR:HA	1.64	0.78
1:I:208:SER:HB3	1:P:55:TRP:CH2	2.19	0.78
1:J:395:LYS:CD	1:j:87:GLU:OE2	2.31	0.78
1:L:52:ILE:HB	1:c:52:ILE:HB	1.64	0.78
1:L:157:LEU:HD11	1:L:219:ILE:HG23	1.63	0.78
1:Q:87:GLU:OE2	1:g:395:LYS:CD	2.31	0.78
1:S:561:TYR:HE1	1:m:157:LEU:CD2	1.73	0.78
1:T:395:LYS:CD	1:U:87:GLU:OE2	2.31	0.78
1:U:208:SER:HB3	1:Y:55:TRP:CH2	2.19	0.78
1:W:52:ILE:HB	1:q:52:ILE:HB	1.64	0.78
1:j:148:ASP:OD1	1:j:185:SER:N	2.13	0.78
1:r:55:TRP:CH2	1:t:208:SER:HB3	2.19	0.78
1:r:208:SER:HB3	1:w:55:TRP:CH2	2.19	0.78
1:7:395:LYS:CD	1:s:87:GLU:OE2	2.31	0.78
1:E:148:ASP:OD1	1:E:185:SER:N	2.13	0.78
1:I:52:ILE:HG12	1:N:52:ILE:HG22	1.65	0.78
1:I:87:GLU:OE2	1:Q:395:LYS:CD	2.31	0.78
1:J:552:ILE:HB	1:L:127:THR:HA	1.64	0.78
1:K:208:SER:HB3	1:g:55:TRP:CH2	2.19	0.78
1:M:52:ILE:HB	1:j:52:ILE:HB	1.64	0.78
1:O:148:ASP:OD1	1:O:185:SER:N	2.13	0.78
1:T:157:LEU:HD11	1:T:219:ILE:HG23	1.63	0.78
1:V:52:ILE:HB	1:Y:52:ILE:HB	1.64	0.78
1:V:92:PRO:HB2	1:j:243:THR:OG1	1.82	0.78
1:W:55:TRP:CH2	1:s:208:SER:HB3	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:55:TRP:CH2	1:p:208:SER:HB3	2.19	0.78
1:f:208:SER:HB3	1:p:55:TRP:CH2	2.19	0.78
1:h:87:GLU:OE2	1:o:395:LYS:CD	2.31	0.78
1:l:208:SER:HB3	1:u:55:TRP:CH2	2.19	0.78
1:o:87:GLU:OE2	1:u:395:LYS:CD	2.31	0.78
1:x:148:ASP:OD1	1:x:185:SER:N	2.14	0.78
1:2:208:SER:HB3	1:h:55:TRP:CH2	2.19	0.78
1:6:52:ILE:HB	1:T:52:ILE:HB	1.64	0.78
1:C:52:ILE:HB	1:G:52:ILE:HB	1.64	0.78
1:D:208:SER:HB3	1:M:55:TRP:CH2	2.19	0.78
1:E:52:ILE:HB	1:v:52:ILE:HB	1.64	0.78
1:E:560:THR:OG1	1:k:212:PHE:CZ	2.26	0.78
1:G:55:TRP:CH2	1:J:208:SER:HB3	2.19	0.78
1:I:55:TRP:CH2	1:N:208:SER:HB3	2.19	0.78
1:I:157:LEU:HD11	1:I:219:ILE:HG23	1.63	0.78
1:L:52:ILE:HB	1:Z:52:ILE:HB	1.64	0.78
1:M:127:THR:HB	1:p:552:ILE:HG12	1.63	0.78
1:M:208:SER:HB3	1:j:55:TRP:CH2	2.19	0.78
1:Q:52:ILE:HG22	1:l:52:ILE:HG12	1.65	0.78
1:V:87:GLU:OE2	1:j:395:LYS:CD	2.31	0.78
1:Z:208:SER:HB3	1:c:55:TRP:CH2	2.19	0.78
1:d:52:ILE:HB	1:p:52:ILE:HB	1.64	0.78
1:d:157:LEU:HD11	1:d:219:ILE:HG23	1.63	0.78
1:e:243:THR:OG1	1:t:92:PRO:HB2	1.82	0.78
1:l:52:ILE:HG22	1:u:52:ILE:HG12	1.65	0.78
1:t:52:ILE:HG12	1:w:52:ILE:HG22	1.65	0.78
1:3:55:TRP:CH2	1:X:208:SER:HB3	2.19	0.78
1:3:552:ILE:HB	1:x:127:THR:HA	1.64	0.78
1:7:52:ILE:HB	1:i:52:ILE:HB	1.64	0.78
1:A:55:TRP:CH2	1:k:208:SER:HB3	2.19	0.78
1:F:52:ILE:HB	1:n:52:ILE:HB	1.64	0.78
1:F:52:ILE:HB	1:y:52:ILE:HB	1.64	0.78
1:F:208:SER:HB3	1:y:55:TRP:CH2	2.19	0.78
1:L:157:LEU:HD22	1:L:205:GLN:HB2	1.63	0.78
1:L:208:SER:HB3	1:Z:55:TRP:CH2	2.19	0.78
1:Q:55:TRP:CH2	1:u:208:SER:HB3	2.19	0.78
1:W:52:ILE:HB	1:s:52:ILE:HB	1.64	0.78
1:a:208:SER:HB3	1:b:55:TRP:CH2	2.19	0.78
1:d:148:ASP:OD1	1:d:185:SER:N	2.13	0.78
1:d:243:THR:OG1	1:q:92:PRO:HB2	1.82	0.78
1:g:208:SER:HB3	1:o:55:TRP:CH2	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:55:TRP:CH2	1:y:208:SER:HB3	2.19	0.78
1:5:552:ILE:HB	1:F:127:THR:HA	1.64	0.78
1:D:52:ILE:HB	1:j:52:ILE:HB	1.64	0.78
1:H:55:TRP:CH2	1:m:208:SER:HB3	2.19	0.78
1:I:395:LYS:CD	1:e:87:GLU:OE2	2.31	0.78
1:K:52:ILE:HG22	1:g:52:ILE:HG12	1.65	0.78
1:L:52:ILE:HG12	1:c:52:ILE:HG22	1.65	0.78
1:R:52:ILE:HG22	1:z:52:ILE:HG12	1.65	0.78
1:S:148:ASP:OD1	1:S:185:SER:N	2.14	0.78
1:U:52:ILE:HB	1:Y:52:ILE:HB	1.64	0.78
1:X:157:LEU:HD11	1:X:219:ILE:HG23	1.64	0.78
1:Z:52:ILE:HG22	1:c:52:ILE:HG12	1.65	0.78
1:d:395:LYS:CD	1:q:87:GLU:OE2	2.31	0.78
1:h:157:LEU:HD11	1:h:219:ILE:HG23	1.63	0.78
1:j:157:LEU:HD11	1:j:219:ILE:HG23	1.64	0.78
1:O:127:THR:HA	1:U:552:ILE:HB	1.64	0.78
1:2:87:GLU:OE2	1:6:395:LYS:CD	2.31	0.78
1:B:127:THR:HA	1:s:552:ILE:HB	1.64	0.78
1:D:157:LEU:HD22	1:D:205:GLN:HB2	1.63	0.78
1:E:561:TYR:HE1	1:S:157:LEU:CD2	1.73	0.78
1:F:148:ASP:OD1	1:F:185:SER:N	2.13	0.78
1:F:157:LEU:HD22	1:F:205:GLN:HB2	1.63	0.78
1:L:148:ASP:OD1	1:L:185:SER:N	2.13	0.78
1:M:552:ILE:HG12	1:p:127:THR:HB	1.63	0.78
1:N:87:GLU:OE2	1:i:395:LYS:CD	2.31	0.78
1:R:208:SER:HB3	1:z:55:TRP:CH2	2.19	0.78
1:g:127:THR:HA	1:r:552:ILE:HB	1.64	0.78
1:m:157:LEU:HD11	1:m:219:ILE:HG23	1.64	0.78
1:t:55:TRP:CH2	1:w:208:SER:HB3	2.19	0.78
1:3:52:ILE:HG12	1:X:52:ILE:HG22	1.65	0.77
1:4:87:GLU:OE2	1:h:395:LYS:CD	2.31	0.77
1:C:560:THR:OG1	1:a:212:PHE:CZ	2.26	0.77
1:F:52:ILE:HG12	1:n:52:ILE:HG22	1.65	0.77
1:I:148:ASP:OD1	1:I:185:SER:N	2.13	0.77
1:W:208:SER:HB3	1:q:55:TRP:CH2	2.19	0.77
1:a:55:TRP:CH2	1:x:208:SER:HB3	2.19	0.77
1:d:52:ILE:HB	1:f:52:ILE:HB	1.64	0.77
1:r:157:LEU:HD11	1:r:219:ILE:HG23	1.64	0.77
1:1:552:ILE:HB	1:u:127:THR:HA	1.64	0.77
1:A:52:ILE:HG22	1:S:52:ILE:HG12	1.65	0.77
1:C:52:ILE:HG12	1:G:52:ILE:HG22	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:561:TYR:HE1	1:x:157:LEU:CD2	1.73	0.77
1:D:52:ILE:HG12	1:j:52:ILE:HG22	1.65	0.77
1:F:52:ILE:HG22	1:y:52:ILE:HG12	1.65	0.77
1:I:250:LEU:HD12	1:I:471:ILE:HG21	1.67	0.77
1:L:52:ILE:HG22	1:Z:52:ILE:HG12	1.65	0.77
1:N:55:TRP:CH2	1:P:208:SER:HB3	2.19	0.77
1:O:395:LYS:CD	1:T:87:GLU:OE2	2.31	0.77
1:Q:208:SER:HB3	1:l:55:TRP:CH2	2.19	0.77
1:S:208:SER:HB3	1:k:55:TRP:CH2	2.19	0.77
1:W:250:LEU:HD12	1:W:471:ILE:HG21	1.67	0.77
1:Y:250:LEU:HD12	1:Y:471:ILE:HG21	1.67	0.77
1:b:52:ILE:HG22	1:x:52:ILE:HG12	1.65	0.77
1:d:552:ILE:HB	1:v:127:THR:HA	1.64	0.77
1:h:250:LEU:HD12	1:h:471:ILE:HG21	1.67	0.77
1:m:127:THR:HA	1:z:552:ILE:HB	1.64	0.77
1:n:52:ILE:HG12	1:y:52:ILE:HG22	1.65	0.77
1:l:250:LEU:HD12	1:l:471:ILE:HG21	1.67	0.77
1:2:55:TRP:CH2	1:O:208:SER:HB3	2.19	0.77
1:4:561:TYR:HE1	1:h:157:LEU:CD2	1.73	0.77
1:6:552:ILE:HB	1:c:127:THR:HA	1.64	0.77
1:E:52:ILE:HG12	1:v:52:ILE:HG22	1.65	0.77
1:H:52:ILE:HG12	1:m:52:ILE:HG22	1.65	0.77
1:J:250:LEU:HD12	1:J:471:ILE:HG21	1.67	0.77
1:K:55:TRP:CH2	1:o:208:SER:HB3	2.19	0.77
1:S:250:LEU:HD12	1:S:471:ILE:HG21	1.67	0.77
1:U:52:ILE:HG12	1:V:52:ILE:HG22	1.65	0.77
1:V:55:TRP:CH2	1:Y:208:SER:HB3	2.19	0.77
1:W:127:THR:HB	1:b:552:ILE:HG12	1.63	0.77
1:X:127:THR:HA	1:t:552:ILE:HB	1.64	0.77
1:d:52:ILE:HG22	1:f:52:ILE:HG12	1.65	0.77
1:f:127:THR:HA	1:q:552:ILE:HB	1.64	0.77
1:f:157:LEU:HD22	1:f:205:GLN:HB2	1.63	0.77
1:r:250:LEU:HD12	1:r:471:ILE:HG21	1.67	0.77
1:0:55:TRP:CH2	1:T:208:SER:HB3	2.19	0.77
1:1:157:LEU:HD11	1:1:219:ILE:HG23	1.64	0.77
1:3:127:THR:HA	1:x:552:ILE:HB	1.64	0.77
1:5:250:LEU:HD12	1:5:471:ILE:HG21	1.67	0.77
1:6:250:LEU:HD12	1:6:471:ILE:HG21	1.67	0.77
1:7:87:GLU:OE2	1:P:395:LYS:CD	2.31	0.77
1:7:208:SER:HB3	1:B:55:TRP:CH2	2.19	0.77
1:A:52:ILE:HG12	1:k:52:ILE:HG22	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:250:LEU:HD12	1:B:471:ILE:HG21	1.67	0.77
1:D:127:THR:HA	1:V:552:ILE:HB	1.64	0.77
1:D:549:MET:HE2	1:V:125:THR:HG1	1.45	0.77
1:G:127:THR:HA	1:j:552:ILE:HB	1.64	0.77
1:X:250:LEU:HD12	1:X:471:ILE:HG21	1.67	0.77
1:d:208:SER:HB3	1:f:55:TRP:CH2	2.19	0.77
1:i:552:ILE:HB	1:n:127:THR:HA	1.64	0.77
1:m:250:LEU:HD12	1:m:471:ILE:HG21	1.67	0.77
1:q:52:ILE:HG22	1:s:52:ILE:HG12	1.65	0.77
1:x:250:LEU:HD12	1:x:471:ILE:HG21	1.67	0.77
1:0:250:LEU:HD12	1:0:471:ILE:HG21	1.67	0.77
1:4:552:ILE:HB	1:O:127:THR:HA	1.64	0.77
1:7:52:ILE:HG22	1:B:52:ILE:HG12	1.65	0.77
1:A:552:ILE:HG12	1:Y:127:THR:HB	1.63	0.77
1:F:250:LEU:HD12	1:F:471:ILE:HG21	1.67	0.77
1:G:250:LEU:HD12	1:G:471:ILE:HG21	1.67	0.77
1:L:250:LEU:HD12	1:L:471:ILE:HG21	1.67	0.77
1:P:127:THR:HA	1:e:552:ILE:HB	1.64	0.77
1:i:250:LEU:HD12	1:i:471:ILE:HG21	1.67	0.77
1:z:250:LEU:HD12	1:z:471:ILE:HG21	1.67	0.77
1:2:395:LYS:CD	1:K:87:GLU:OE2	2.31	0.77
1:5:52:ILE:HD11	1:E:54:GLU:HB2	1.67	0.77
1:C:52:ILE:HD11	1:G:54:GLU:HB2	1.67	0.77
1:C:54:GLU:HB2	1:J:52:ILE:HD11	1.67	0.77
1:D:55:TRP:CH2	1:j:208:SER:HB3	2.19	0.77
1:E:55:TRP:CH2	1:v:208:SER:HB3	2.19	0.77
1:T:250:LEU:HD12	1:T:471:ILE:HG21	1.67	0.77
1:t:250:LEU:HD12	1:t:471:ILE:HG21	1.67	0.77
1:v:250:LEU:HD12	1:v:471:ILE:HG21	1.67	0.77
1:0:52:ILE:HD11	1:T:54:GLU:HB2	1.67	0.77
1:7:52:ILE:HD11	1:i:54:GLU:HB2	1.67	0.77
1:7:54:GLU:HB2	1:B:52:ILE:HD11	1.67	0.77
1:7:250:LEU:HD12	1:7:471:ILE:HG21	1.67	0.77
1:C:55:TRP:CH2	1:G:208:SER:HB3	2.19	0.77
1:E:52:ILE:HD11	1:v:54:GLU:HB2	1.67	0.77
1:F:54:GLU:HB2	1:y:52:ILE:HD11	1.67	0.77
1:H:127:THR:HA	1:S:552:ILE:HB	1.64	0.77
1:L:54:GLU:HB2	1:Z:52:ILE:HD11	1.67	0.77
1:U:55:TRP:CH2	1:V:208:SER:HB3	2.19	0.77
1:X:55:TRP:CH2	1:e:208:SER:HB3	2.19	0.77
1:a:52:ILE:HG22	1:b:52:ILE:HG12	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:148:ASP:OD1	1:r:185:SER:N	2.14	0.77
1:0:52:ILE:HG12	1:T:52:ILE:HG22	1.65	0.77
1:4:208:SER:HB3	1:m:55:TRP:CH2	2.19	0.77
1:6:54:GLU:HB2	1:T:52:ILE:HD11	1.67	0.77
1:B:52:ILE:HG22	1:i:52:ILE:HG12	1.65	0.77
1:K:54:GLU:HB2	1:g:52:ILE:HD11	1.67	0.77
1:N:395:LYS:CD	1:l:87:GLU:OE2	2.31	0.77
1:W:54:GLU:HB2	1:q:52:ILE:HD11	1.67	0.77
1:X:148:ASP:OD1	1:X:185:SER:N	2.14	0.77
1:g:54:GLU:HB2	1:o:52:ILE:HD11	1.67	0.77
1:l:54:GLU:HB2	1:u:52:ILE:HD11	1.67	0.77
1:q:208:SER:HB3	1:s:55:TRP:CH2	2.19	0.77
1:1:54:GLU:HB2	1:R:52:ILE:HD11	1.67	0.77
1:5:55:TRP:CH2	1:E:208:SER:HB3	2.19	0.77
1:A:208:SER:HB3	1:S:55:TRP:CH2	2.19	0.77
1:O:52:ILE:HD11	1:h:54:GLU:HB2	1.67	0.77
1:U:250:LEU:HD12	1:U:471:ILE:HG21	1.67	0.77
1:V:52:ILE:HD11	1:Y:54:GLU:HB2	1.67	0.77
1:Z:54:GLU:HB2	1:c:52:ILE:HD11	1.67	0.77
1:m:52:ILE:HD11	1:y:54:GLU:HB2	1.67	0.77
1:0:52:ILE:HG22	1:6:52:ILE:HG12	1.65	0.77
1:1:148:ASP:OD1	1:1:185:SER:N	2.14	0.77
1:I:54:GLU:HB2	1:P:52:ILE:HD11	1.67	0.77
1:I:157:LEU:CD2	1:e:561:TYR:HE1	1.73	0.77
1:P:250:LEU:HD12	1:P:471:ILE:HG21	1.67	0.77
1:Q:52:ILE:HD11	1:u:54:GLU:HB2	1.67	0.77
1:U:54:GLU:HB2	1:Y:52:ILE:HD11	1.67	0.77
1:b:208:SER:HB3	1:x:55:TRP:CH2	2.19	0.77
1:r:54:GLU:HB2	1:w:52:ILE:HD11	1.67	0.77
1:s:250:LEU:HD12	1:s:471:ILE:HG21	1.67	0.77
1:w:148:ASP:OD1	1:w:185:SER:N	2.14	0.77
1:3:52:ILE:HD11	1:X:54:GLU:HB2	1.67	0.76
1:B:208:SER:HB3	1:i:55:TRP:CH2	2.19	0.76
1:C:208:SER:HB3	1:J:55:TRP:CH2	2.19	0.76
1:O:250:LEU:HD12	1:O:471:ILE:HG21	1.67	0.76
1:W:52:ILE:HD11	1:s:54:GLU:HB2	1.67	0.76
1:m:148:ASP:OD1	1:m:185:SER:N	2.14	0.76
1:t:148:ASP:OD1	1:t:185:SER:N	2.14	0.76
1:0:208:SER:HB3	1:6:55:TRP:CH2	2.19	0.76
1:2:54:GLU:HB2	1:h:52:ILE:HD11	1.67	0.76
1:2:250:LEU:HD12	1:2:471:ILE:HG21	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:LEU:O	1:H:96:PRO:CA	2.34	0.76
1:D:96:PRO:CA	1:Y:241:LEU:O	2.34	0.76
1:E:552:ILE:HB	1:k:127:THR:HA	1.64	0.76
1:H:52:ILE:HD11	1:m:54:GLU:HB2	1.67	0.76
1:N:250:LEU:HD12	1:N:471:ILE:HG21	1.67	0.76
1:R:148:ASP:OD1	1:R:185:SER:N	2.14	0.76
1:V:250:LEU:HD12	1:V:471:ILE:HG21	1.67	0.76
1:W:241:LEU:O	1:f:96:PRO:CA	2.34	0.76
1:p:148:ASP:OD1	1:p:185:SER:N	2.14	0.76
1:1:241:LEU:O	1:y:96:PRO:CA	2.34	0.76
1:2:241:LEU:O	1:K:96:PRO:CA	2.34	0.76
1:3:96:PRO:CA	1:b:241:LEU:O	2.34	0.76
1:3:241:LEU:O	1:P:96:PRO:CA	2.34	0.76
1:A:52:ILE:HD11	1:k:54:GLU:HB2	1.67	0.76
1:C:552:ILE:HB	1:a:127:THR:HA	1.64	0.76
1:G:96:PRO:CA	1:M:241:LEU:O	2.34	0.76
1:H:241:LEU:O	1:O:96:PRO:CA	2.34	0.76
1:H:552:ILE:HG12	1:S:127:THR:HB	1.63	0.76
1:I:52:ILE:HD11	1:N:54:GLU:HB2	1.67	0.76
1:K:52:ILE:HD11	1:o:54:GLU:HB2	1.67	0.76
1:M:148:ASP:OD1	1:M:185:SER:N	2.14	0.76
1:N:241:LEU:O	1:l:96:PRO:CA	2.34	0.76
1:Z:96:PRO:CA	1:r:241:LEU:O	2.34	0.76
1:p:241:LEU:O	1:v:96:PRO:CA	2.34	0.76
1:q:250:LEU:HD12	1:q:471:ILE:HG21	1.67	0.76
1:3:54:GLU:HB2	1:e:52:ILE:HD11	1.67	0.76
1:5:96:PRO:CA	1:n:241:LEU:O	2.34	0.76
1:J:96:PRO:CA	1:c:241:LEU:O	2.34	0.76
1:M:52:ILE:HG22	1:j:52:ILE:HG12	1.65	0.76
1:j:250:LEU:HD12	1:j:471:ILE:HG21	1.67	0.76
1:l:250:LEU:HD12	1:l:471:ILE:HG21	1.67	0.76
1:n:250:LEU:HD12	1:n:471:ILE:HG21	1.67	0.76
1:C:241:LEU:O	1:L:96:PRO:CA	2.34	0.76
1:E:241:LEU:O	1:F:96:PRO:CA	2.34	0.76
1:K:250:LEU:HD12	1:K:471:ILE:HG21	1.67	0.76
1:Q:54:GLU:HB2	1:l:52:ILE:HD11	1.67	0.76
1:R:241:LEU:O	1:m:96:PRO:CA	2.34	0.76
1:V:96:PRO:CA	1:j:241:LEU:O	2.34	0.76
1:X:96:PRO:CA	1:w:241:LEU:O	2.34	0.76
1:Z:250:LEU:HD12	1:Z:471:ILE:HG21	1.67	0.76
1:a:54:GLU:HB2	1:b:52:ILE:HD11	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:250:LEU:HD12	1:c:471:ILE:HG21	1.67	0.76
1:d:52:ILE:HG12	1:p:52:ILE:HG22	1.65	0.76
1:d:241:LEU:O	1:q:96:PRO:CA	2.34	0.76
1:d:250:LEU:HD12	1:d:471:ILE:HG21	1.67	0.76
1:z:148:ASP:OD1	1:z:185:SER:N	2.14	0.76
1:3:250:LEU:HD12	1:3:471:ILE:HG21	1.67	0.76
1:4:52:ILE:HD11	1:H:54:GLU:HB2	1.67	0.76
1:5:52:ILE:HG22	1:v:52:ILE:HG12	1.65	0.76
1:5:241:LEU:O	1:d:96:PRO:CA	2.34	0.76
1:H:250:LEU:HD12	1:H:471:ILE:HG21	1.67	0.76
1:T:148:ASP:OD1	1:T:185:SER:N	2.13	0.76
1:W:96:PRO:CA	1:a:241:LEU:O	2.34	0.76
1:Z:148:ASP:OD1	1:Z:185:SER:N	2.13	0.76
1:a:52:ILE:HD11	1:x:54:GLU:HB2	1.67	0.76
1:b:54:GLU:HB2	1:x:52:ILE:HD11	1.67	0.76
1:b:250:LEU:HD12	1:b:471:ILE:HG21	1.67	0.76
1:g:96:PRO:CA	1:t:241:LEU:O	2.34	0.76
1:o:96:PRO:CA	1:u:241:LEU:O	2.34	0.76
1:u:96:PRO:CA	1:z:241:LEU:O	2.34	0.76
1:y:250:LEU:HD12	1:y:471:ILE:HG21	1.67	0.76
1:7:148:ASP:OD1	1:7:185:SER:N	2.13	0.76
1:A:54:GLU:HB2	1:S:52:ILE:HD11	1.67	0.76
1:A:250:LEU:HD12	1:A:471:ILE:HG21	1.67	0.76
1:D:250:LEU:HD12	1:D:471:ILE:HG21	1.67	0.76
1:G:52:ILE:HG12	1:J:52:ILE:HG22	1.65	0.76
1:Q:96:PRO:CA	1:g:241:LEU:O	2.34	0.76
1:Q:250:LEU:HD12	1:Q:471:ILE:HG21	1.67	0.76
1:S:54:GLU:HB2	1:k:52:ILE:HD11	1.67	0.76
1:Y:96:PRO:CA	1:k:241:LEU:O	2.34	0.76
1:3:552:ILE:HG12	1:x:127:THR:HB	1.63	0.76
1:4:54:GLU:HB2	1:m:52:ILE:HD11	1.67	0.76
1:7:241:LEU:O	1:s:96:PRO:CA	2.34	0.76
1:B:241:LEU:O	1:n:96:PRO:CA	2.34	0.76
1:J:241:LEU:O	1:j:96:PRO:CA	2.34	0.76
1:f:250:LEU:HD12	1:f:471:ILE:HG21	1.67	0.76
1:o:250:LEU:HD12	1:o:471:ILE:HG21	1.67	0.76
1:l:96:PRO:CA	1:l:241:LEU:O	2.34	0.76
1:D:148:ASP:OD1	1:D:185:SER:N	2.14	0.76
1:T:241:LEU:O	1:U:96:PRO:CA	2.34	0.76
1:0:241:LEU:O	1:c:96:PRO:CA	2.34	0.76
1:2:96:PRO:CA	1:6:241:LEU:O	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:96:PRO:CA	1:h:241:LEU:O	2.34	0.76
1:A:96:PRO:CA	1:U:241:LEU:O	2.34	0.76
1:D:241:LEU:O	1:p:96:PRO:CA	2.34	0.76
1:K:241:LEU:O	1:r:96:PRO:CA	2.34	0.76
1:M:96:PRO:CA	1:f:241:LEU:O	2.34	0.76
1:X:52:ILE:HD11	1:e:54:GLU:HB2	1.67	0.76
1:b:96:PRO:CA	1:s:241:LEU:O	2.34	0.76
1:i:96:PRO:CA	1:y:241:LEU:O	2.34	0.76
1:y:148:ASP:OD1	1:y:185:SER:N	2.14	0.76
1:N:96:PRO:CA	1:i:241:LEU:O	2.34	0.75
1:U:52:ILE:HD11	1:V:54:GLU:HB2	1.67	0.75
1:6:96:PRO:CA	1:Z:241:LEU:O	2.34	0.75
1:G:52:ILE:HD11	1:J:54:GLU:HB2	1.67	0.75
1:I:241:LEU:O	1:e:96:PRO:CA	2.34	0.75
1:O:241:LEU:O	1:T:96:PRO:CA	2.34	0.75
1:b:148:ASP:OD1	1:b:185:SER:N	2.14	0.75
1:m:552:ILE:HG12	1:z:127:THR:HB	1.63	0.75
1:q:54:GLU:HB2	1:s:52:ILE:HD11	1.67	0.75
1:r:52:ILE:HG12	1:t:52:ILE:HG22	1.65	0.75
1:7:96:PRO:CA	1:P:241:LEU:O	2.34	0.75
1:C:96:PRO:CA	1:x:241:LEU:O	2.34	0.75
1:E:96:PRO:CA	1:S:241:LEU:O	2.34	0.75
1:f:148:ASP:OD1	1:f:185:SER:N	2.13	0.75
1:h:96:PRO:CA	1:o:241:LEU:O	2.34	0.75
1:0:96:PRO:CA	1:V:241:LEU:O	2.34	0.75
1:I:96:PRO:CA	1:Q:241:LEU:O	2.34	0.75
1:L:241:LEU:O	1:w:96:PRO:CA	2.34	0.75
1:1:52:ILE:HG12	1:z:52:ILE:HG22	1.65	0.75
1:4:241:LEU:O	1:z:96:PRO:CA	2.34	0.75
1:5:54:GLU:HB2	1:v:52:ILE:HD11	1.67	0.75
1:F:241:LEU:O	1:R:96:PRO:CA	2.34	0.75
1:S:96:PRO:CA	1:m:241:LEU:O	2.34	0.75
1:U:221:LEU:HD11	1:U:538:PHE:CE2	2.22	0.75
1:s:221:LEU:HD11	1:s:538:PHE:CE2	2.22	0.75
1:w:221:LEU:HD11	1:w:538:PHE:CE2	2.22	0.75
1:4:221:LEU:HD11	1:4:538:PHE:CE2	2.22	0.75
1:4:250:LEU:HD12	1:4:471:ILE:HG21	1.67	0.75
1:5:221:LEU:HD11	1:5:538:PHE:CE2	2.22	0.75
1:A:148:ASP:OD1	1:A:185:SER:N	2.14	0.75
1:B:96:PRO:CA	1:q:241:LEU:O	2.34	0.75
1:G:241:LEU:O	1:a:96:PRO:CA	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:221:LEU:HD11	1:J:538:PHE:CE2	2.22	0.75
1:O:221:LEU:HD11	1:O:538:PHE:CE2	2.22	0.75
1:P:221:LEU:HD11	1:P:538:PHE:CE2	2.22	0.75
1:R:127:THR:HB	1:y:552:ILE:HG12	1.63	0.75
1:V:221:LEU:HD11	1:V:538:PHE:CE2	2.22	0.75
1:X:552:ILE:HG12	1:t:127:THR:HB	1.63	0.75
1:Z:221:LEU:HD11	1:Z:538:PHE:CE2	2.22	0.75
1:a:250:LEU:HD12	1:a:471:ILE:HG21	1.67	0.75
1:e:241:LEU:O	1:t:96:PRO:CA	2.34	0.75
1:e:250:LEU:HD12	1:e:471:ILE:HG21	1.67	0.75
1:k:250:LEU:HD12	1:k:471:ILE:HG21	1.67	0.75
1:q:221:LEU:HD11	1:q:538:PHE:CE2	2.22	0.75
1:y:221:LEU:HD11	1:y:538:PHE:CE2	2.22	0.75
1:M:221:LEU:HD11	1:M:538:PHE:CE2	2.22	0.75
1:R:221:LEU:HD11	1:R:538:PHE:CE2	2.22	0.75
1:X:241:LEU:O	1:x:96:PRO:CA	2.34	0.75
1:e:221:LEU:HD11	1:e:538:PHE:CE2	2.22	0.75
1:p:221:LEU:HD11	1:p:538:PHE:CE2	2.22	0.75
1:2:52:ILE:HD11	1:O:54:GLU:HB2	1.67	0.75
1:D:552:ILE:HG12	1:V:127:THR:HB	1.63	0.75
1:E:221:LEU:HD11	1:E:538:PHE:CE2	2.22	0.75
1:G:221:LEU:HD11	1:G:538:PHE:CE2	2.22	0.75
1:N:52:ILE:HD11	1:P:54:GLU:HB2	1.67	0.75
1:Z:552:ILE:HG12	1:w:127:THR:HB	1.63	0.75
1:k:96:PRO:CA	1:v:241:LEU:O	2.34	0.75
1:l:221:LEU:HD11	1:l:538:PHE:CE2	2.22	0.75
1:z:221:LEU:HD11	1:z:538:PHE:CE2	2.22	0.75
1:1:52:ILE:HD11	1:z:54:GLU:HB2	1.67	0.75
1:B:54:GLU:HB2	1:i:52:ILE:HD11	1.67	0.75
1:K:221:LEU:HD11	1:K:538:PHE:CE2	2.22	0.75
1:t:221:LEU:HD11	1:t:538:PHE:CE2	2.22	0.75
1:v:221:LEU:HD11	1:v:538:PHE:CE2	2.22	0.75
1:0:221:LEU:HD11	1:0:538:PHE:CE2	2.22	0.74
1:C:221:LEU:HD11	1:C:538:PHE:CE2	2.22	0.74
1:D:54:GLU:HB2	1:M:52:ILE:HD11	1.67	0.74
1:G:148:ASP:OD1	1:G:185:SER:N	2.13	0.74
1:J:551:THR:HA	1:L:127:THR:CG2	2.17	0.74
1:Y:221:LEU:HD11	1:Y:538:PHE:CE2	2.22	0.74
1:d:52:ILE:HD11	1:p:54:GLU:HB2	1.67	0.74
1:f:54:GLU:HB2	1:p:52:ILE:HD11	1.67	0.74
1:m:127:THR:HB	1:z:552:ILE:HG12	1.63	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:54:GLU:HB2	1:6:52:ILE:HD11	1.67	0.74
1:4:552:ILE:HG12	1:O:127:THR:HB	1.63	0.74
1:5:551:THR:HA	1:F:127:THR:CG2	2.17	0.74
1:B:221:LEU:HD11	1:B:538:PHE:CE2	2.22	0.74
1:H:221:LEU:HD11	1:H:538:PHE:CE2	2.22	0.74
1:I:561:TYR:HE1	1:Q:157:LEU:CD2	1.73	0.74
1:L:52:ILE:HD11	1:c:54:GLU:HB2	1.67	0.74
1:M:54:GLU:HB2	1:j:52:ILE:HD11	1.67	0.74
1:N:221:LEU:HD11	1:N:538:PHE:CE2	2.22	0.74
1:W:221:LEU:HD11	1:W:538:PHE:CE2	2.22	0.74
1:a:221:LEU:HD11	1:a:538:PHE:CE2	2.22	0.74
1:d:221:LEU:HD11	1:d:538:PHE:CE2	2.22	0.74
1:h:561:TYR:HE1	1:o:157:LEU:CD2	1.73	0.74
1:r:52:ILE:HD11	1:t:54:GLU:HB2	1.67	0.74
1:1:52:ILE:HG13	1:z:52:ILE:CG2	2.18	0.74
1:2:221:LEU:HD11	1:2:538:PHE:CE2	2.22	0.74
1:A:127:THR:CG2	1:Y:551:THR:HA	2.17	0.74
1:W:551:THR:HA	1:b:127:THR:CG2	2.17	0.74
1:d:54:GLU:HB2	1:f:52:ILE:HD11	1.67	0.74
1:f:552:ILE:HG12	1:q:127:THR:HB	1.63	0.74
1:k:221:LEU:HD11	1:k:538:PHE:CE2	2.22	0.74
1:r:52:ILE:HG13	1:t:52:ILE:CG2	2.18	0.74
1:3:221:LEU:HD11	1:3:538:PHE:CE2	2.22	0.74
1:F:52:ILE:HD11	1:n:54:GLU:HB2	1.67	0.74
1:S:221:LEU:HD11	1:S:538:PHE:CE2	2.22	0.74
1:X:127:THR:HB	1:t:552:ILE:HG12	1.63	0.74
1:j:221:LEU:HD11	1:j:538:PHE:CE2	2.22	0.74
1:C:250:LEU:HD12	1:C:471:ILE:HG21	1.67	0.74
1:D:52:ILE:HD11	1:j:54:GLU:HB2	1.67	0.74
1:E:551:THR:HA	1:k:127:THR:CG2	2.17	0.74
1:I:52:ILE:HG13	1:N:52:ILE:CG2	2.18	0.74
1:R:250:LEU:HD12	1:R:471:ILE:HG21	1.67	0.74
1:X:551:THR:HA	1:t:127:THR:CG2	2.17	0.74
1:m:551:THR:HA	1:z:127:THR:CG2	2.17	0.74
1:v:148:ASP:OD1	1:v:185:SER:N	2.13	0.74
1:x:221:LEU:HD11	1:x:538:PHE:CE2	2.22	0.74
1:2:52:ILE:CG2	1:h:52:ILE:HG13	2.18	0.74
1:3:127:THR:CG2	1:x:551:THR:HA	2.17	0.74
1:7:221:LEU:HD11	1:7:538:PHE:CE2	2.22	0.74
1:C:551:THR:HA	1:a:127:THR:CG2	2.17	0.74
1:M:250:LEU:HD12	1:M:471:ILE:HG21	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:221:LEU:HD11	1:T:538:PHE:CE2	2.22	0.74
1:b:221:LEU:HD11	1:b:538:PHE:CE2	2.22	0.74
1:d:52:ILE:CG2	1:f:52:ILE:HG13	2.18	0.74
1:g:221:LEU:HD11	1:g:538:PHE:CE2	2.22	0.74
1:n:221:LEU:HD11	1:n:538:PHE:CE2	2.22	0.74
1:u:250:LEU:HD12	1:u:471:ILE:HG21	1.67	0.74
1:6:551:THR:HA	1:c:127:THR:CG2	2.17	0.74
1:A:221:LEU:HD11	1:A:538:PHE:CE2	2.22	0.74
1:D:52:ILE:HG13	1:j:52:ILE:CG2	2.18	0.74
1:H:127:THR:CG2	1:S:551:THR:HA	2.17	0.74
1:b:52:ILE:CG2	1:x:52:ILE:HG13	2.18	0.74
1:c:221:LEU:HD11	1:c:538:PHE:CE2	2.22	0.74
1:f:221:LEU:HD11	1:f:538:PHE:CE2	2.22	0.74
1:D:221:LEU:HD11	1:D:538:PHE:CE2	2.22	0.74
1:E:250:LEU:HD12	1:E:471:ILE:HG21	1.67	0.74
1:H:52:ILE:HG13	1:m:52:ILE:CG2	2.18	0.74
1:i:551:THR:HA	1:n:127:THR:CG2	2.18	0.74
1:t:52:ILE:HD11	1:w:54:GLU:HB2	1.67	0.74
1:u:221:LEU:HD11	1:u:538:PHE:CE2	2.22	0.74
1:w:250:LEU:HD12	1:w:471:ILE:HG21	1.67	0.74
1:3:52:ILE:HG13	1:X:52:ILE:CG2	2.18	0.74
1:A:52:ILE:CG2	1:S:52:ILE:HG13	2.18	0.74
1:C:127:THR:CG2	1:a:551:THR:HA	2.17	0.74
1:E:127:THR:CG2	1:k:551:THR:HA	2.17	0.74
1:L:221:LEU:HD11	1:L:538:PHE:CE2	2.22	0.74
1:R:54:GLU:HB2	1:z:52:ILE:HD11	1.67	0.74
1:U:52:ILE:CG2	1:Y:52:ILE:HG13	2.18	0.74
1:W:52:ILE:HG13	1:s:52:ILE:CG2	2.18	0.74
1:g:250:LEU:HD12	1:g:471:ILE:HG21	1.67	0.74
1:p:250:LEU:HD12	1:p:471:ILE:HG21	1.67	0.74
1:5:52:ILE:HG13	1:E:52:ILE:CG2	2.18	0.74
1:6:52:ILE:CG2	1:T:52:ILE:HG13	2.18	0.74
1:7:52:ILE:HG13	1:i:52:ILE:CG2	2.18	0.74
1:C:52:ILE:CG2	1:J:52:ILE:HG13	2.18	0.74
1:G:552:ILE:HG12	1:j:127:THR:CA	2.18	0.74
1:R:552:ILE:HG12	1:y:127:THR:CA	2.18	0.74
1:d:127:THR:CA	1:v:552:ILE:HG12	2.18	0.74
1:2:551:THR:HA	1:T:127:THR:CG2	2.17	0.73
1:3:127:THR:CA	1:x:552:ILE:HG12	2.18	0.73
1:4:52:ILE:CG2	1:m:52:ILE:HG13	2.18	0.73
1:C:52:ILE:HG13	1:G:52:ILE:CG2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:52:ILE:HG13	1:v:52:ILE:CG2	2.18	0.73
1:F:221:LEU:HD11	1:F:538:PHE:CE2	2.22	0.73
1:M:552:ILE:HG12	1:p:127:THR:CA	2.18	0.73
1:P:127:THR:CA	1:e:552:ILE:HG12	2.18	0.73
1:Z:127:THR:CA	1:w:552:ILE:HG12	2.18	0.73
1:3:52:ILE:CG2	1:e:52:ILE:HG13	2.18	0.73
1:4:52:ILE:HG13	1:H:52:ILE:CG2	2.18	0.73
1:4:127:THR:CG2	1:O:551:THR:HA	2.17	0.73
1:4:552:ILE:HG12	1:O:127:THR:CA	2.18	0.73
1:5:552:ILE:HG12	1:F:127:THR:CA	2.18	0.73
1:6:221:LEU:HD11	1:6:538:PHE:CE2	2.22	0.73
1:6:552:ILE:HG12	1:c:127:THR:CA	2.18	0.73
1:7:127:THR:CG2	1:N:551:THR:HA	2.17	0.73
1:H:127:THR:CA	1:S:552:ILE:HG12	2.18	0.73
1:I:127:THR:CA	1:l:552:ILE:HG12	2.18	0.73
1:J:552:ILE:HG12	1:L:127:THR:CA	2.18	0.73
1:K:52:ILE:HG13	1:o:52:ILE:CG2	2.18	0.73
1:K:552:ILE:HG12	1:h:127:THR:CA	2.18	0.73
1:M:52:ILE:CG2	1:j:52:ILE:HG13	2.18	0.73
1:M:127:THR:CA	1:p:552:ILE:HG12	2.18	0.73
1:X:52:ILE:HG13	1:e:52:ILE:CG2	2.18	0.73
1:X:127:THR:CG2	1:t:551:THR:HA	2.17	0.73
1:i:221:LEU:HD11	1:i:538:PHE:CE2	2.22	0.73
1:1:221:LEU:HD11	1:1:538:PHE:CE2	2.22	0.73
1:7:157:LEU:CD2	1:s:561:TYR:HE1	1.73	0.73
1:G:127:THR:CA	1:j:552:ILE:HG12	2.18	0.73
1:Q:52:ILE:CG2	1:l:52:ILE:HG13	2.18	0.73
1:Q:127:THR:CA	1:o:552:ILE:HG12	2.18	0.73
1:Q:552:ILE:HG12	1:o:127:THR:CA	2.18	0.73
1:d:52:ILE:HG13	1:p:52:ILE:CG2	2.18	0.73
1:m:127:THR:CG2	1:z:551:THR:HA	2.17	0.73
1:m:221:LEU:HD11	1:m:538:PHE:CE2	2.22	0.73
1:r:221:LEU:HD11	1:r:538:PHE:CE2	2.22	0.73
1:B:127:THR:CA	1:s:552:ILE:HG12	2.18	0.73
1:G:551:THR:HA	1:j:127:THR:CG2	2.17	0.73
1:I:552:ILE:HG12	1:l:127:THR:CA	2.18	0.73
1:K:127:THR:CA	1:h:552:ILE:HG12	2.18	0.73
1:P:551:THR:HA	1:e:127:THR:CG2	2.18	0.73
1:V:52:ILE:HG13	1:Y:52:ILE:CG2	2.18	0.73
1:W:52:ILE:CG2	1:q:52:ILE:HG13	2.18	0.73
1:X:221:LEU:HD11	1:X:538:PHE:CE2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:552:ILE:HG12	1:v:127:THR:CA	2.18	0.73
1:h:221:LEU:HD11	1:h:538:PHE:CE2	2.22	0.73
1:i:552:ILE:HG12	1:n:127:THR:CA	2.18	0.73
1:o:221:LEU:HD11	1:o:538:PHE:CE2	2.22	0.73
1:0:127:THR:CA	1:U:552:ILE:HG12	2.18	0.73
1:B:127:THR:CG2	1:s:551:THR:HA	2.17	0.73
1:D:551:THR:HA	1:V:127:THR:CG2	2.17	0.73
1:I:221:LEU:HD11	1:I:538:PHE:CE2	2.22	0.73
1:S:52:ILE:CG2	1:k:52:ILE:HG13	2.18	0.73
1:Z:52:ILE:CG2	1:c:52:ILE:HG13	2.18	0.73
1:n:52:ILE:HG13	1:y:52:ILE:CG2	2.18	0.73
1:0:551:THR:HA	1:U:127:THR:CG2	2.17	0.73
1:5:52:ILE:CG2	1:v:52:ILE:HG13	2.18	0.73
1:5:127:THR:CG2	1:F:551:THR:HA	2.17	0.73
1:L:52:ILE:CG2	1:Z:52:ILE:HG13	2.18	0.73
1:P:127:THR:CG2	1:e:551:THR:HA	2.17	0.73
1:Q:221:LEU:HD11	1:Q:538:PHE:CE2	2.22	0.73
1:T:157:LEU:CD2	1:U:561:TYR:HE1	1.73	0.73
1:a:52:ILE:HG13	1:x:52:ILE:CG2	2.18	0.73
1:d:127:THR:CG2	1:v:551:THR:HA	2.17	0.73
1:l:52:ILE:CG2	1:u:52:ILE:HG13	2.18	0.73
1:3:157:LEU:CG	1:P:561:TYR:CD1	2.72	0.73
1:B:561:TYR:CD1	1:q:157:LEU:CG	2.72	0.73
1:F:52:ILE:CG2	1:y:52:ILE:HG13	2.18	0.73
1:I:561:TYR:CD1	1:Q:157:LEU:CG	2.72	0.73
1:J:127:THR:CG2	1:L:551:THR:HA	2.17	0.73
1:Q:52:ILE:HG13	1:u:52:ILE:CG2	2.18	0.73
1:h:561:TYR:CD1	1:o:157:LEU:CG	2.72	0.73
1:0:127:THR:CG2	1:U:551:THR:HA	2.17	0.73
1:0:561:TYR:CD1	1:V:157:LEU:CG	2.72	0.73
1:2:52:ILE:HG13	1:O:52:ILE:CG2	2.18	0.73
1:4:127:THR:CA	1:O:552:ILE:HG12	2.18	0.73
1:4:551:THR:HA	1:O:127:THR:CG2	2.17	0.73
1:B:551:THR:HA	1:s:127:THR:CG2	2.17	0.73
1:G:52:ILE:HG13	1:J:52:ILE:CG2	2.18	0.73
1:H:157:LEU:CG	1:O:561:TYR:CD1	2.72	0.73
1:K:52:ILE:CG2	1:g:52:ILE:HG13	2.18	0.73
1:L:157:LEU:CG	1:w:561:TYR:CD1	2.72	0.73
1:N:52:ILE:HG13	1:P:52:ILE:CG2	2.18	0.73
1:O:52:ILE:HG13	1:h:52:ILE:CG2	2.18	0.73
1:P:552:ILE:HG12	1:e:127:THR:CA	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:561:TYR:CD1	1:a:157:LEU:CG	2.72	0.73
1:Y:561:TYR:CD1	1:k:157:LEU:CG	2.72	0.73
1:f:551:THR:HA	1:q:127:THR:CG2	2.17	0.73
1:g:52:ILE:CG2	1:o:52:ILE:HG13	2.18	0.73
1:l:561:TYR:CD1	1:l:157:LEU:CG	2.72	0.73
1:A:551:THR:HA	1:Y:127:THR:CG2	2.17	0.73
1:A:561:TYR:CD1	1:U:157:LEU:CG	2.72	0.73
1:F:157:LEU:CG	1:R:561:TYR:CD1	2.72	0.73
1:I:52:ILE:CG2	1:P:52:ILE:HG13	2.18	0.73
1:K:157:LEU:CG	1:r:561:TYR:CD1	2.72	0.73
1:Q:561:TYR:CD1	1:g:157:LEU:CG	2.72	0.73
1:W:127:THR:CG2	1:b:551:THR:HA	2.17	0.73
1:W:127:THR:CA	1:b:552:ILE:HG12	2.18	0.73
1:b:561:TYR:CD1	1:s:157:LEU:CG	2.72	0.73
1:f:52:ILE:CG2	1:p:52:ILE:HG13	2.18	0.73
1:o:561:TYR:CD1	1:u:157:LEU:CG	2.72	0.73
1:2:127:THR:CA	1:T:552:ILE:HG12	2.18	0.73
1:2:552:ILE:HG12	1:T:127:THR:CA	2.18	0.73
1:5:157:LEU:CG	1:d:561:TYR:CD1	2.72	0.73
1:A:552:ILE:HG12	1:Y:127:THR:CA	2.18	0.73
1:D:52:ILE:CG2	1:M:52:ILE:HG13	2.18	0.73
1:U:52:ILE:HG13	1:V:52:ILE:CG2	2.18	0.73
1:d:157:LEU:CG	1:q:561:TYR:CD1	2.72	0.73
1:f:552:ILE:HG12	1:q:127:THR:CA	2.18	0.73
1:r:52:ILE:CG2	1:w:52:ILE:HG13	2.18	0.73
1:u:561:TYR:CD1	1:z:157:LEU:CG	2.72	0.73
1:l:52:ILE:CG2	1:R:52:ILE:HG13	2.18	0.72
1:7:127:THR:CA	1:N:552:ILE:HG12	2.18	0.72
1:A:127:THR:CA	1:Y:552:ILE:HG12	2.18	0.72
1:D:552:ILE:HG12	1:V:127:THR:CA	2.18	0.72
1:F:52:ILE:HG13	1:n:52:ILE:CG2	2.18	0.72
1:G:157:LEU:CG	1:a:561:TYR:CD1	2.72	0.72
1:J:157:LEU:CG	1:j:561:TYR:CD1	2.72	0.72
1:V:561:TYR:CD1	1:j:157:LEU:CG	2.72	0.72
1:g:561:TYR:CD1	1:t:157:LEU:CG	2.72	0.72
1:k:561:TYR:CD1	1:v:157:LEU:CG	2.72	0.72
1:q:52:ILE:CG2	1:s:52:ILE:HG13	2.18	0.72
1:l:127:THR:CA	1:u:552:ILE:HG12	2.18	0.72
1:7:552:ILE:HG12	1:N:127:THR:CA	2.18	0.72
1:7:561:TYR:CD1	1:P:157:LEU:CG	2.72	0.72
1:A:52:ILE:HG13	1:k:52:ILE:CG2	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:157:LEU:CG	1:T:561:TYR:CD1	2.72	0.72
1:W:552:ILE:HG12	1:b:127:THR:CA	2.19	0.72
1:i:561:TYR:CD1	1:y:157:LEU:CG	2.72	0.72
1:2:127:THR:CG2	1:T:551:THR:HA	2.17	0.72
1:L:52:ILE:HG13	1:c:52:ILE:CG2	2.18	0.72
1:R:52:ILE:CG2	1:z:52:ILE:HG13	2.18	0.72
1:a:52:ILE:CG2	1:b:52:ILE:HG13	2.18	0.72
1:g:552:ILE:HG12	1:r:127:THR:CA	2.18	0.72
1:O:52:ILE:HG13	1:T:52:ILE:CG2	2.18	0.72
1:6:561:TYR:CD1	1:Z:157:LEU:CG	2.72	0.72
1:7:551:THR:HA	1:N:127:THR:CG2	2.17	0.72
1:B:157:LEU:CG	1:n:561:TYR:CD1	2.72	0.72
1:Z:552:ILE:HG12	1:w:127:THR:CA	2.18	0.72
1:g:127:THR:CA	1:r:552:ILE:HG12	2.18	0.72
1:t:52:ILE:HG13	1:w:52:ILE:CG2	2.18	0.72
1:O:157:LEU:CG	1:c:561:TYR:CD1	2.72	0.72
1:1:552:ILE:HG12	1:u:127:THR:CA	2.18	0.72
1:7:52:ILE:CG2	1:B:52:ILE:HG13	2.18	0.72
1:E:127:THR:CA	1:k:552:ILE:HG12	2.18	0.72
1:G:561:TYR:CD1	1:M:157:LEU:CG	2.72	0.72
1:H:552:ILE:HG12	1:S:127:THR:CA	2.18	0.72
1:R:127:THR:CA	1:y:552:ILE:HG12	2.18	0.72
1:p:157:LEU:CG	1:v:561:TYR:CD1	2.72	0.72
1:1:157:LEU:CG	1:y:561:TYR:CD1	2.72	0.72
1:3:552:ILE:HG12	1:x:127:THR:CA	2.18	0.72
1:B:85:MET:CG	1:q:394:TYR:CD2	2.73	0.72
1:C:48:LYS:CA	1:G:56:GLN:OE1	2.38	0.72
1:C:127:THR:CA	1:a:552:ILE:HG12	2.19	0.72
1:C:552:ILE:HG12	1:a:127:THR:CA	2.18	0.72
1:E:394:TYR:CD2	1:F:85:MET:CG	2.73	0.72
1:E:552:ILE:HG12	1:k:127:THR:CA	2.18	0.72
1:F:394:TYR:CD2	1:R:85:MET:CG	2.73	0.72
1:L:394:TYR:CD2	1:w:85:MET:CG	2.73	0.72
1:X:127:THR:CA	1:t:552:ILE:HG12	2.18	0.72
1:X:552:ILE:HG12	1:t:127:THR:CA	2.18	0.72
1:d:48:LYS:CA	1:p:56:GLN:OE1	2.38	0.72
1:d:394:TYR:CD2	1:q:85:MET:CG	2.73	0.72
1:O:85:MET:CG	1:V:394:TYR:CD2	2.73	0.72
1:2:48:LYS:CA	1:O:56:GLN:OE1	2.38	0.72
1:3:56:GLN:OE1	1:e:48:LYS:CA	2.38	0.72
1:4:48:LYS:CA	1:H:56:GLN:OE1	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:85:MET:CG	1:P:394:TYR:CD2	2.73	0.72
1:C:394:TYR:CD2	1:L:85:MET:CG	2.73	0.72
1:E:48:LYS:CA	1:v:56:GLN:OE1	2.38	0.72
1:E:157:LEU:CG	1:F:561:TYR:CD1	2.72	0.72
1:F:48:LYS:CA	1:n:56:GLN:OE1	2.38	0.72
1:I:551:THR:HA	1:l:127:THR:CG2	2.17	0.72
1:J:127:THR:CA	1:L:552:ILE:HG12	2.18	0.72
1:L:48:LYS:CA	1:c:56:GLN:OE1	2.38	0.72
1:M:56:GLN:OE1	1:j:48:LYS:CA	2.38	0.72
1:V:85:MET:CG	1:j:394:TYR:CD2	2.73	0.72
1:Z:561:TYR:CD1	1:r:157:LEU:CG	2.72	0.72
1:0:394:TYR:CD2	1:c:85:MET:CG	2.73	0.72
1:5:127:THR:CA	1:F:552:ILE:HG12	2.18	0.72
1:A:48:LYS:CA	1:k:56:GLN:OE1	2.38	0.72
1:A:85:MET:CG	1:U:394:TYR:CD2	2.73	0.72
1:D:48:LYS:CA	1:j:56:GLN:OE1	2.38	0.72
1:G:394:TYR:CD2	1:a:85:MET:CG	2.73	0.72
1:N:48:LYS:CA	1:P:56:GLN:OE1	2.38	0.72
1:O:394:TYR:CD2	1:T:85:MET:CG	2.73	0.72
1:W:85:MET:CG	1:a:394:TYR:CD2	2.73	0.72
1:W:157:LEU:CG	1:f:561:TYR:CD1	2.72	0.72
1:a:56:GLN:OE1	1:b:48:LYS:CA	2.38	0.72
1:i:127:THR:CA	1:n:552:ILE:HG12	2.18	0.72
1:m:127:THR:CA	1:z:552:ILE:HG12	2.18	0.72
1:m:552:ILE:HG12	1:z:127:THR:CA	2.18	0.72
1:1:394:TYR:CD2	1:y:85:MET:CG	2.73	0.72
1:2:561:TYR:CD1	1:6:157:LEU:CG	2.72	0.72
1:6:127:THR:CA	1:c:552:ILE:HG12	2.18	0.72
1:B:52:ILE:CG2	1:i:52:ILE:HG13	2.18	0.72
1:B:394:TYR:CD2	1:n:85:MET:CG	2.73	0.72
1:C:157:LEU:CG	1:L:561:TYR:CD1	2.72	0.72
1:D:127:THR:CA	1:V:552:ILE:HG12	2.18	0.72
1:D:561:TYR:CD1	1:Y:157:LEU:CG	2.72	0.72
1:J:561:TYR:CD1	1:c:157:LEU:CG	2.72	0.72
1:K:127:THR:CG2	1:h:551:THR:HA	2.17	0.72
1:R:157:LEU:CG	1:m:561:TYR:CD1	2.72	0.72
1:R:551:THR:HA	1:y:127:THR:CG2	2.17	0.72
1:X:48:LYS:CA	1:e:56:GLN:OE1	2.38	0.72
1:Y:85:MET:CG	1:k:394:TYR:CD2	2.73	0.72
1:Z:85:MET:CG	1:r:394:TYR:CD2	2.73	0.72
1:b:85:MET:CG	1:s:394:TYR:CD2	2.73	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:56:GLN:OE1	1:f:48:LYS:CA	2.38	0.72
1:k:85:MET:CG	1:v:394:TYR:CD2	2.73	0.72
1:4:56:GLN:OE1	1:m:48:LYS:CA	2.38	0.72
1:5:561:TYR:CD1	1:n:157:LEU:CG	2.72	0.72
1:l:56:GLN:OE1	1:P:48:LYS:CA	2.38	0.72
1:N:394:TYR:CD2	1:l:85:MET:CG	2.73	0.72
1:N:561:TYR:CD1	1:i:157:LEU:CG	2.72	0.72
1:Q:56:GLN:OE1	1:l:48:LYS:CA	2.38	0.72
1:X:561:TYR:CD1	1:w:157:LEU:CG	2.72	0.72
1:Z:127:THR:CG2	1:w:551:THR:HA	2.17	0.72
1:0:52:ILE:CG2	1:6:52:ILE:HG13	2.18	0.71
1:2:394:TYR:CD2	1:K:85:MET:CG	2.73	0.71
1:A:157:LEU:CG	1:H:561:TYR:CD1	2.72	0.71
1:K:48:LYS:CA	1:o:56:GLN:OE1	2.38	0.71
1:K:394:TYR:CD2	1:r:85:MET:CG	2.73	0.71
1:N:157:LEU:CG	1:l:561:TYR:CD1	2.72	0.71
1:O:48:LYS:CA	1:h:56:GLN:OE1	2.38	0.71
1:f:127:THR:CA	1:q:552:ILE:HG12	2.18	0.71
1:g:127:THR:CG2	1:r:551:THR:HA	2.17	0.71
1:t:48:LYS:CA	1:w:56:GLN:OE1	2.38	0.71
1:l:85:MET:CG	1:l:394:TYR:CD2	2.73	0.71
1:2:157:LEU:CG	1:K:561:TYR:CD1	2.72	0.71
1:3:561:TYR:CD1	1:b:157:LEU:CG	2.72	0.71
1:5:56:GLN:OE1	1:v:48:LYS:CA	2.38	0.71
1:5:85:MET:CG	1:n:394:TYR:CD2	2.73	0.71
1:A:127:THR:HB	1:Y:552:ILE:HG12	1.63	0.71
1:D:157:LEU:CG	1:p:561:TYR:CD1	2.72	0.71
1:G:48:LYS:CA	1:J:56:GLN:OE1	2.38	0.71
1:W:394:TYR:CD2	1:f:85:MET:CG	2.73	0.71
1:o:85:MET:CG	1:u:394:TYR:CD2	2.73	0.71
1:0:552:ILE:HG12	1:U:127:THR:CA	2.18	0.71
1:l:551:THR:HA	1:u:127:THR:CG2	2.17	0.71
1:4:394:TYR:CD2	1:z:85:MET:CG	2.73	0.71
1:B:552:ILE:HG12	1:s:127:THR:CA	2.18	0.71
1:D:85:MET:CG	1:Y:394:TYR:CD2	2.73	0.71
1:J:85:MET:CG	1:c:394:TYR:CD2	2.73	0.71
1:M:561:TYR:CD1	1:f:157:LEU:CG	2.72	0.71
1:Q:85:MET:CG	1:g:394:TYR:CD2	2.73	0.71
1:R:56:GLN:OE1	1:z:48:LYS:CA	2.38	0.71
1:g:190:LYS:HZ1	1:t:190:LYS:CD	2.04	0.71
1:r:56:GLN:OE1	1:w:48:LYS:CA	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:394:TYR:CD2	1:P:85:MET:CG	2.73	0.71
1:4:561:TYR:CD1	1:h:157:LEU:CG	2.72	0.71
1:6:127:THR:CG2	1:c:551:THR:HA	2.17	0.71
1:C:561:TYR:CD1	1:x:157:LEU:CG	2.72	0.71
1:X:157:LEU:CG	1:x:561:TYR:CD1	2.72	0.71
1:b:56:GLN:OE1	1:x:48:LYS:CA	2.38	0.71
1:e:157:LEU:CG	1:t:561:TYR:CD1	2.72	0.71
1:e:394:TYR:CD2	1:t:85:MET:CG	2.73	0.71
1:n:48:LYS:CA	1:y:56:GLN:OE1	2.38	0.71
1:1:56:GLN:OE1	1:R:48:LYS:CA	2.38	0.71
1:4:157:LEU:CG	1:z:561:TYR:CD1	2.72	0.71
1:7:394:TYR:CD2	1:s:85:MET:CG	2.73	0.71
1:A:56:GLN:OE1	1:S:48:LYS:CA	2.38	0.71
1:E:561:TYR:CD1	1:S:157:LEU:CG	2.72	0.71
1:I:157:LEU:CG	1:e:561:TYR:CD1	2.72	0.71
1:S:85:MET:CG	1:m:394:TYR:CD2	2.73	0.71
1:S:561:TYR:CD1	1:m:157:LEU:CG	2.72	0.71
1:T:394:TYR:CD2	1:U:85:MET:CG	2.73	0.71
1:Z:56:GLN:OE1	1:c:48:LYS:CA	2.38	0.71
1:0:48:LYS:CA	1:T:56:GLN:OE1	2.38	0.71
1:2:56:GLN:OE1	1:h:48:LYS:CA	2.38	0.71
1:7:56:GLN:OE1	1:B:48:LYS:CA	2.38	0.71
1:D:394:TYR:CD2	1:p:85:MET:CG	2.73	0.71
1:H:394:TYR:CD2	1:O:85:MET:CG	2.73	0.71
1:X:394:TYR:CD2	1:x:85:MET:CG	2.73	0.71
1:g:85:MET:CG	1:t:394:TYR:CD2	2.73	0.71
1:i:127:THR:CG2	1:n:551:THR:HA	2.17	0.71
1:u:85:MET:CG	1:z:394:TYR:CD2	2.73	0.71
1:C:560:THR:HG1	1:a:212:PHE:CD2	1.48	0.71
1:E:560:THR:HG1	1:k:212:PHE:CD2	1.48	0.71
1:I:48:LYS:CA	1:N:56:GLN:OE1	2.38	0.71
1:Q:190:LYS:HZ1	1:g:190:LYS:CD	2.04	0.71
1:T:157:LEU:CG	1:U:561:TYR:CD1	2.72	0.71
1:W:56:GLN:OE1	1:q:48:LYS:CA	2.38	0.71
1:W:190:LYS:HZ1	1:a:190:LYS:CD	2.04	0.71
1:W:552:ILE:HG12	1:b:127:THR:HB	1.63	0.71
1:X:85:MET:CG	1:w:394:TYR:CD2	2.73	0.71
1:Y:190:LYS:HZ1	1:k:190:LYS:CD	2.04	0.71
1:o:190:LYS:HZ1	1:u:190:LYS:CD	2.04	0.71
1:0:56:GLN:OE1	1:6:48:LYS:CA	2.38	0.71
1:7:157:LEU:CG	1:s:561:TYR:CD1	2.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:190:LYS:CD	1:s:190:LYS:HZ1	2.04	0.71
1:B:56:GLN:OE1	1:i:48:LYS:CA	2.38	0.71
1:K:56:GLN:OE1	1:g:48:LYS:CA	2.38	0.71
1:L:56:GLN:OE1	1:Z:48:LYS:CA	2.38	0.71
1:M:85:MET:CG	1:f:394:TYR:CD2	2.73	0.71
1:R:394:TYR:CD2	1:m:85:MET:CG	2.73	0.71
1:V:48:LYS:CA	1:Y:56:GLN:OE1	2.38	0.71
1:f:56:GLN:OE1	1:p:48:LYS:CA	2.38	0.71
1:f:127:THR:CG2	1:q:551:THR:HA	2.17	0.71
1:l:56:GLN:OE1	1:u:48:LYS:CA	2.38	0.71
1:3:551:THR:HA	1:x:127:THR:CG2	2.17	0.71
1:D:56:GLN:OE1	1:M:48:LYS:CA	2.38	0.71
1:E:190:LYS:CD	1:F:190:LYS:HZ1	2.04	0.71
1:4:85:MET:CG	1:h:394:TYR:CD2	2.73	0.71
1:5:190:LYS:HZ1	1:n:190:LYS:CD	2.04	0.71
1:E:85:MET:CG	1:S:394:TYR:CD2	2.73	0.71
1:F:56:GLN:OE1	1:y:48:LYS:CA	2.38	0.71
1:H:48:LYS:CA	1:m:56:GLN:OE1	2.38	0.71
1:H:551:THR:HA	1:S:127:THR:CG2	2.18	0.71
1:I:394:TYR:CD2	1:e:85:MET:CG	2.73	0.71
1:J:125:THR:HG1	1:L:549:MET:HE2	1.54	0.71
1:1:48:LYS:CA	1:z:56:GLN:OE1	2.38	0.70
1:1:127:THR:CG2	1:u:551:THR:HA	2.17	0.70
1:3:48:LYS:CA	1:X:56:GLN:OE1	2.38	0.70
1:A:394:TYR:CD2	1:H:85:MET:CG	2.73	0.70
1:B:157:LEU:CD2	1:n:561:TYR:HE1	1.73	0.70
1:C:85:MET:CG	1:x:394:TYR:CD2	2.73	0.70
1:D:127:THR:CG2	1:V:551:THR:HA	2.17	0.70
1:F:190:LYS:CD	1:R:190:LYS:HZ1	2.04	0.70
1:J:190:LYS:HZ1	1:c:190:LYS:CD	2.04	0.70
1:L:190:LYS:CD	1:w:190:LYS:HZ1	2.04	0.70
1:N:85:MET:CG	1:i:394:TYR:CD2	2.73	0.70
1:u:190:LYS:HZ1	1:z:190:LYS:CD	2.04	0.70
1:0:190:LYS:CD	1:c:190:LYS:HZ1	2.04	0.70
1:0:552:ILE:CG1	1:U:127:THR:HA	2.22	0.70
1:1:244:ASN:HD22	1:y:93:GLU:CD	2.00	0.70
1:3:85:MET:CG	1:b:394:TYR:CD2	2.73	0.70
1:A:127:THR:HA	1:Y:552:ILE:CG1	2.21	0.70
1:B:552:ILE:CG1	1:s:127:THR:HA	2.22	0.70
1:G:552:ILE:CG1	1:j:127:THR:HA	2.21	0.70
1:Q:552:ILE:CG1	1:o:127:THR:HA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:190:LYS:CD	1:U:190:LYS:HZ1	2.04	0.70
1:W:552:ILE:CG1	1:b:127:THR:HA	2.22	0.70
1:a:48:LYS:CA	1:x:56:GLN:OE1	2.38	0.70
1:d:127:THR:HA	1:v:552:ILE:CG1	2.21	0.70
1:p:394:TYR:CD2	1:v:85:MET:CG	2.73	0.70
1:r:48:LYS:CA	1:t:56:GLN:OE1	2.38	0.70
1:2:85:MET:CG	1:6:394:TYR:CD2	2.73	0.70
1:5:394:TYR:CD2	1:d:85:MET:CG	2.73	0.70
1:6:85:MET:CG	1:Z:394:TYR:CD2	2.73	0.70
1:6:552:ILE:CG1	1:c:127:THR:HA	2.21	0.70
1:C:56:GLN:OE1	1:J:48:LYS:CA	2.38	0.70
1:G:85:MET:CG	1:M:394:TYR:CD2	2.73	0.70
1:K:552:ILE:CG1	1:h:127:THR:HA	2.22	0.70
1:Q:127:THR:HA	1:o:552:ILE:CG1	2.21	0.70
1:X:127:THR:HA	1:t:552:ILE:CG1	2.21	0.70
1:X:552:ILE:CG1	1:t:127:THR:HA	2.22	0.70
1:g:551:THR:HA	1:r:127:THR:CG2	2.17	0.70
1:i:552:ILE:CG1	1:n:127:THR:HA	2.21	0.70
1:m:127:THR:HA	1:z:552:ILE:CG1	2.21	0.70
1:m:552:ILE:CG1	1:z:127:THR:HA	2.22	0.70
1:5:48:LYS:CA	1:E:56:GLN:OE1	2.38	0.70
1:A:190:LYS:CD	1:H:190:LYS:HZ1	2.04	0.70
1:G:127:THR:HA	1:j:552:ILE:CG1	2.22	0.70
1:I:127:THR:HA	1:l:552:ILE:CG1	2.22	0.70
1:K:551:THR:HA	1:h:127:THR:CG2	2.17	0.70
1:M:127:THR:HA	1:p:552:ILE:CG1	2.21	0.70
1:Q:48:LYS:CA	1:u:56:GLN:OE1	2.38	0.70
1:S:56:GLN:OE1	1:k:48:LYS:CA	2.38	0.70
1:W:48:LYS:CA	1:s:56:GLN:OE1	2.38	0.70
1:W:127:THR:HA	1:b:552:ILE:CG1	2.22	0.70
1:Z:93:GLU:CD	1:r:244:ASN:HD22	2.00	0.70
1:d:552:ILE:CG1	1:v:127:THR:HA	2.22	0.70
1:i:85:MET:CG	1:y:394:TYR:CD2	2.73	0.70
1:3:190:LYS:HZ1	1:b:190:LYS:CD	2.04	0.70
1:4:127:THR:HA	1:O:552:ILE:CG1	2.21	0.70
1:6:56:GLN:OE1	1:T:48:LYS:CA	2.38	0.70
1:7:48:LYS:CA	1:i:56:GLN:OE1	2.38	0.70
1:7:244:ASN:HD22	1:s:93:GLU:CD	1.99	0.70
1:A:190:LYS:HZ1	1:U:190:LYS:CD	2.05	0.70
1:A:552:ILE:CG1	1:Y:127:THR:HA	2.22	0.70
1:G:93:GLU:CD	1:M:244:ASN:HD22	1.99	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:THR:HA	1:S:552:ILE:CG1	2.21	0.70
1:J:394:TYR:CD2	1:j:85:MET:CG	2.73	0.70
1:M:552:ILE:CG1	1:p:127:THR:HA	2.21	0.70
1:P:552:ILE:CG1	1:e:127:THR:HA	2.21	0.70
1:W:93:GLU:CD	1:a:244:ASN:HD22	1.99	0.70
1:X:190:LYS:HZ1	1:w:190:LYS:CD	2.04	0.70
1:b:190:LYS:HZ1	1:s:190:LYS:CD	2.05	0.70
1:d:551:THR:HA	1:v:127:THR:CG2	2.17	0.70
1:g:93:GLU:CD	1:t:244:ASN:HD22	2.00	0.70
1:p:244:ASN:HD22	1:v:93:GLU:CD	1.99	0.70
1:q:56:GLN:OE1	1:s:48:LYS:CA	2.38	0.70
1:u:93:GLU:CD	1:z:244:ASN:HD22	2.00	0.70
1:0:157:LEU:CD2	1:c:561:TYR:HE1	1.73	0.70
1:1:93:GLU:CD	1:l:244:ASN:HD22	1.99	0.70
1:2:552:ILE:CG1	1:T:127:THR:HA	2.21	0.70
1:3:127:THR:HA	1:x:552:ILE:CG1	2.21	0.70
1:7:127:THR:HA	1:N:552:ILE:CG1	2.21	0.70
1:I:85:MET:CG	1:Q:394:TYR:CD2	2.73	0.70
1:R:552:ILE:CG1	1:y:127:THR:HA	2.21	0.70
1:U:48:LYS:CA	1:V:56:GLN:OE1	2.38	0.70
1:U:56:GLN:OE1	1:Y:48:LYS:CA	2.38	0.70
1:Y:93:GLU:CD	1:k:244:ASN:HD22	1.99	0.70
1:g:56:GLN:OE1	1:o:48:LYS:CA	2.38	0.70
1:1:190:LYS:HZ1	1:l:190:LYS:CD	2.04	0.70
1:7:552:ILE:CG1	1:N:127:THR:HA	2.22	0.70
1:E:190:LYS:HZ1	1:S:190:LYS:CD	2.04	0.70
1:I:127:THR:CG2	1:l:551:THR:HA	2.17	0.70
1:K:244:ASN:HD22	1:r:93:GLU:CD	1.99	0.70
1:Z:127:THR:HA	1:w:552:ILE:CG1	2.22	0.70
1:h:85:MET:CG	1:o:394:TYR:CD2	2.73	0.70
1:2:127:THR:HA	1:T:552:ILE:CG1	2.22	0.70
1:5:93:GLU:CD	1:n:244:ASN:HD22	1.99	0.70
1:5:127:THR:HA	1:F:552:ILE:CG1	2.22	0.70
1:5:552:ILE:CG1	1:F:127:THR:HA	2.21	0.70
1:G:127:THR:CG2	1:j:551:THR:HA	2.17	0.70
1:J:93:GLU:CD	1:c:244:ASN:HD22	1.99	0.70
1:T:244:ASN:HD22	1:U:93:GLU:CD	1.99	0.70
1:X:190:LYS:CD	1:x:190:LYS:HZ1	2.04	0.70
1:2:190:LYS:CD	1:K:190:LYS:HZ1	2.05	0.70
1:3:552:ILE:CG1	1:x:127:THR:HA	2.21	0.70
1:A:551:THR:CA	1:Y:127:THR:HG23	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:190:LYS:HZ1	1:Y:190:LYS:CD	2.05	0.70
1:J:552:ILE:CG1	1:L:127:THR:HA	2.21	0.70
1:P:127:THR:HA	1:e:552:ILE:CG1	2.22	0.70
1:Q:93:GLU:CD	1:g:244:ASN:HD22	1.99	0.70
1:R:127:THR:HA	1:y:552:ILE:CG1	2.22	0.70
1:S:190:LYS:HZ1	1:m:190:LYS:CD	2.04	0.70
1:1:242:SER:HB2	1:y:92:PRO:O	1.92	0.70
1:B:92:PRO:O	1:q:242:SER:HB2	1.92	0.70
1:D:92:PRO:O	1:Y:242:SER:HB2	1.92	0.70
1:D:127:THR:HA	1:V:552:ILE:CG1	2.21	0.70
1:G:242:SER:HB2	1:a:92:PRO:O	1.92	0.70
1:I:92:PRO:O	1:Q:242:SER:HB2	1.92	0.70
1:I:190:LYS:CD	1:e:190:LYS:HZ1	2.04	0.70
1:K:127:THR:HA	1:h:552:ILE:CG1	2.21	0.70
1:W:127:THR:HG23	1:b:551:THR:CA	2.21	0.70
1:W:190:LYS:CD	1:f:190:LYS:HZ1	2.05	0.70
1:W:242:SER:HB2	1:f:92:PRO:O	1.92	0.70
1:X:242:SER:HB2	1:x:92:PRO:O	1.92	0.70
1:Z:552:ILE:CG1	1:w:127:THR:HA	2.22	0.70
1:k:92:PRO:O	1:v:242:SER:HB2	1.92	0.70
1:o:93:GLU:CD	1:u:244:ASN:HD22	1.99	0.70
1:0:92:PRO:O	1:V:242:SER:HB2	1.92	0.69
1:1:552:ILE:CG1	1:u:127:THR:HA	2.21	0.69
1:2:190:LYS:HZ1	1:6:190:LYS:CD	2.05	0.69
1:4:242:SER:HB2	1:z:92:PRO:O	1.92	0.69
1:4:552:ILE:CG1	1:O:127:THR:HA	2.22	0.69
1:5:125:THR:HG1	1:F:549:MET:HE2	1.57	0.69
1:6:190:LYS:HZ1	1:Z:190:LYS:CD	2.05	0.69
1:A:93:GLU:CD	1:U:244:ASN:HD22	2.00	0.69
1:H:552:ILE:CG1	1:S:127:THR:HA	2.21	0.69
1:I:190:LYS:HZ1	1:Q:190:LYS:CD	2.05	0.69
1:J:127:THR:HA	1:L:552:ILE:CG1	2.22	0.69
1:N:190:LYS:HZ1	1:i:190:LYS:CD	2.05	0.69
1:S:92:PRO:O	1:m:242:SER:HB2	1.92	0.69
1:Z:92:PRO:O	1:r:242:SER:HB2	1.92	0.69
1:b:93:GLU:CD	1:s:244:ASN:HD22	2.00	0.69
1:h:92:PRO:O	1:o:242:SER:HB2	1.92	0.69
1:C:190:LYS:CD	1:L:190:LYS:HZ1	2.05	0.69
1:I:552:ILE:CG1	1:l:127:THR:HA	2.21	0.69
1:e:242:SER:HB2	1:t:92:PRO:O	1.92	0.69
1:f:127:THR:HA	1:q:552:ILE:CG1	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:127:THR:HA	1:r:552:ILE:CG1	2.21	0.69
1:g:552:ILE:CG1	1:r:127:THR:HA	2.22	0.69
1:l:92:PRO:O	1:l:242:SER:HB2	1.92	0.69
1:l:190:LYS:CD	1:y:190:LYS:HZ1	2.04	0.69
1:3:92:PRO:O	1:b:242:SER:HB2	1.92	0.69
1:A:242:SER:HB2	1:H:92:PRO:O	1.92	0.69
1:A:244:ASN:HD22	1:H:93:GLU:CD	1.99	0.69
1:C:127:THR:HA	1:a:552:ILE:CG1	2.22	0.69
1:E:127:THR:HA	1:k:552:ILE:CG1	2.22	0.69
1:M:92:PRO:O	1:f:242:SER:HB2	1.92	0.69
1:N:190:LYS:CD	1:l:190:LYS:HZ1	2.06	0.69
1:V:93:GLU:CD	1:j:244:ASN:HD22	1.99	0.69
1:X:159:LEU:HD13	1:X:220:PRO:HG3	1.75	0.69
1:i:127:THR:HA	1:n:552:ILE:CG1	2.21	0.69
1:m:159:LEU:HD13	1:m:220:PRO:HG3	1.75	0.69
1:4:190:LYS:HZ1	1:h:190:LYS:CD	2.05	0.69
1:D:242:SER:HB2	1:p:92:PRO:O	1.92	0.69
1:F:242:SER:HB2	1:R:92:PRO:O	1.92	0.69
1:L:242:SER:HB2	1:w:92:PRO:O	1.92	0.69
1:L:244:ASN:HD22	1:w:93:GLU:CD	1.99	0.69
1:X:125:THR:CB	1:t:550:SER:O	2.41	0.69
1:a:159:LEU:HD13	1:a:220:PRO:HG3	1.75	0.69
1:d:244:ASN:HD22	1:q:93:GLU:CD	1.99	0.69
1:m:125:THR:CB	1:z:550:SER:O	2.41	0.69
1:p:242:SER:HB2	1:v:92:PRO:O	1.92	0.69
1:1:127:THR:HA	1:u:552:ILE:CG1	2.22	0.69
1:2:92:PRO:O	1:6:242:SER:HB2	1.92	0.69
1:2:242:SER:HB2	1:K:92:PRO:O	1.92	0.69
1:2:551:THR:C	1:T:127:THR:HG22	2.18	0.69
1:3:93:GLU:CD	1:b:244:ASN:HD22	1.99	0.69
1:3:550:SER:O	1:x:125:THR:CB	2.41	0.69
1:4:127:THR:HG22	1:O:551:THR:C	2.18	0.69
1:5:242:SER:HB2	1:d:92:PRO:O	1.92	0.69
1:5:550:SER:O	1:F:125:THR:CB	2.41	0.69
1:6:127:THR:HA	1:c:552:ILE:CG1	2.21	0.69
1:7:127:THR:HG22	1:N:551:THR:C	2.18	0.69
1:G:92:PRO:O	1:M:242:SER:HB2	1.92	0.69
1:H:550:SER:O	1:S:125:THR:CB	2.41	0.69
1:J:242:SER:HB2	1:j:92:PRO:O	1.92	0.69
1:K:125:THR:CB	1:h:550:SER:O	2.41	0.69
1:K:242:SER:HB2	1:r:92:PRO:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:92:PRO:O	1:i:242:SER:HB2	1.92	0.69
1:N:244:ASN:HD22	1:l:93:GLU:CD	1.99	0.69
1:P:551:THR:C	1:e:127:THR:HG22	2.18	0.69
1:c:159:LEU:HD13	1:c:220:PRO:HG3	1.75	0.69
1:g:159:LEU:HD13	1:g:220:PRO:HG3	1.75	0.69
1:h:190:LYS:HZ1	1:o:190:LYS:CD	2.05	0.69
1:i:550:SER:O	1:n:125:THR:CB	2.41	0.69
1:k:159:LEU:HD13	1:k:220:PRO:HG3	1.75	0.69
1:u:159:LEU:HD13	1:u:220:PRO:HG3	1.75	0.69
1:O:127:THR:HG22	1:U:551:THR:C	2.18	0.69
1:2:159:LEU:HD13	1:2:220:PRO:HG3	1.75	0.69
1:2:551:THR:CA	1:T:127:THR:HG23	2.21	0.69
1:3:551:THR:C	1:x:127:THR:HG22	2.18	0.69
1:4:550:SER:O	1:O:125:THR:CB	2.41	0.69
1:6:550:SER:O	1:c:125:THR:CB	2.41	0.69
1:B:127:THR:HG22	1:s:551:THR:C	2.18	0.69
1:C:190:LYS:HZ1	1:x:190:LYS:CD	2.05	0.69
1:C:551:THR:C	1:a:127:THR:HG22	2.18	0.69
1:D:190:LYS:CD	1:p:190:LYS:HZ1	2.05	0.69
1:D:552:ILE:CG1	1:V:127:THR:HA	2.22	0.69
1:E:551:THR:C	1:k:127:THR:HG22	2.18	0.69
1:H:242:SER:HB2	1:O:92:PRO:O	1.92	0.69
1:H:551:THR:C	1:S:127:THR:HG22	2.18	0.69
1:I:127:THR:HG22	1:l:551:THR:C	2.18	0.69
1:I:127:THR:HG23	1:l:551:THR:CA	2.21	0.69
1:I:550:SER:O	1:l:125:THR:CB	2.41	0.69
1:J:549:MET:HE2	1:L:125:THR:HG1	1.57	0.69
1:J:550:SER:O	1:L:125:THR:CB	2.41	0.69
1:K:551:THR:C	1:h:127:THR:HG22	2.18	0.69
1:M:93:GLU:CD	1:f:244:ASN:HD22	1.99	0.69
1:P:125:THR:CB	1:e:550:SER:O	2.41	0.69
1:Q:127:THR:HG22	1:o:551:THR:C	2.18	0.69
1:Q:551:THR:C	1:o:127:THR:HG22	2.18	0.69
1:R:125:THR:CB	1:y:550:SER:O	2.41	0.69
1:R:190:LYS:CD	1:m:190:LYS:HZ1	2.04	0.69
1:W:551:THR:CA	1:b:127:THR:HG23	2.21	0.69
1:Z:550:SER:O	1:w:125:THR:CB	2.41	0.69
1:e:159:LEU:HD13	1:e:220:PRO:HG3	1.75	0.69
1:e:190:LYS:CD	1:t:190:LYS:HZ1	2.04	0.69
1:f:552:ILE:CG1	1:q:127:THR:HA	2.22	0.69
1:m:551:THR:C	1:z:127:THR:HG22	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:244:ASN:HD22	1:K:93:GLU:CD	1.99	0.69
1:3:242:SER:HB2	1:P:92:PRO:O	1.92	0.69
1:4:159:LEU:HD13	1:4:220:PRO:HG3	1.75	0.69
1:7:190:LYS:HZ1	1:P:190:LYS:CD	2.05	0.69
1:C:159:LEU:HD13	1:C:220:PRO:HG3	1.75	0.69
1:D:127:THR:HG22	1:V:551:THR:C	2.18	0.69
1:D:244:ASN:HD22	1:p:93:GLU:CD	1.99	0.69
1:E:159:LEU:HD13	1:E:220:PRO:HG3	1.75	0.69
1:E:242:SER:HB2	1:F:92:PRO:O	1.92	0.69
1:E:552:ILE:CG1	1:k:127:THR:HA	2.21	0.69
1:I:159:LEU:HD13	1:I:220:PRO:HG3	1.75	0.69
1:J:551:THR:C	1:L:127:THR:HG22	2.18	0.69
1:M:127:THR:CG2	1:p:551:THR:HA	2.17	0.69
1:M:551:THR:HA	1:p:127:THR:CG2	2.17	0.69
1:N:242:SER:HB2	1:l:92:PRO:O	1.92	0.69
1:X:92:PRO:O	1:w:242:SER:HB2	1.92	0.69
1:X:551:THR:C	1:t:127:THR:HG22	2.18	0.69
1:f:127:THR:HG22	1:q:551:THR:C	2.18	0.69
1:n:159:LEU:HD13	1:n:220:PRO:HG3	1.75	0.69
1:q:159:LEU:HD13	1:q:220:PRO:HG3	1.75	0.69
1:y:159:LEU:HD13	1:y:220:PRO:HG3	1.75	0.69
1:0:127:THR:HG23	1:U:551:THR:CA	2.21	0.69
1:0:242:SER:HB2	1:c:92:PRO:O	1.92	0.69
1:0:551:THR:C	1:U:127:THR:HG22	2.18	0.69
1:2:127:THR:HG22	1:T:551:THR:C	2.18	0.69
1:3:395:LYS:HE3	1:P:87:GLU:CD	2.18	0.69
1:4:190:LYS:CD	1:z:190:LYS:HZ1	2.05	0.69
1:5:190:LYS:CD	1:d:190:LYS:HZ1	2.06	0.69
1:5:551:THR:C	1:F:127:THR:HG22	2.18	0.69
1:6:87:GLU:CD	1:Z:395:LYS:HE3	2.18	0.69
1:6:92:PRO:O	1:Z:242:SER:HB2	1.92	0.69
1:6:127:THR:CA	1:c:552:ILE:CG1	2.71	0.69
1:6:551:THR:C	1:c:127:THR:HG22	2.18	0.69
1:7:127:THR:HG23	1:N:551:THR:CA	2.21	0.69
1:7:551:THR:C	1:N:127:THR:HG22	2.18	0.69
1:A:127:THR:HG23	1:Y:551:THR:CA	2.21	0.69
1:B:127:THR:HA	1:s:552:ILE:CG1	2.21	0.69
1:B:242:SER:HB2	1:n:92:PRO:O	1.92	0.69
1:B:551:THR:C	1:s:127:THR:HG22	2.18	0.69
1:C:87:GLU:CD	1:x:395:LYS:HE3	2.18	0.69
1:C:242:SER:HB2	1:L:92:PRO:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:ILE:CG1	1:a:127:THR:CA	2.71	0.69
1:C:552:ILE:CG1	1:a:127:THR:HA	2.21	0.69
1:D:159:LEU:HD13	1:D:220:PRO:HG3	1.75	0.69
1:E:87:GLU:CD	1:S:395:LYS:HE3	2.18	0.69
1:F:244:ASN:HD22	1:R:93:GLU:CD	1.99	0.69
1:H:395:LYS:HE3	1:O:87:GLU:CD	2.18	0.69
1:J:190:LYS:CD	1:j:190:LYS:HZ1	2.06	0.69
1:K:395:LYS:HE3	1:r:87:GLU:CD	2.18	0.69
1:K:551:THR:CA	1:h:127:THR:HG23	2.21	0.69
1:M:127:THR:HG22	1:p:551:THR:C	2.18	0.69
1:M:159:LEU:HD13	1:M:220:PRO:HG3	1.75	0.69
1:M:551:THR:C	1:p:127:THR:HG22	2.18	0.69
1:N:159:LEU:HD13	1:N:220:PRO:HG3	1.75	0.69
1:R:242:SER:HB2	1:m:92:PRO:O	1.92	0.69
1:S:93:GLU:CD	1:m:244:ASN:HD22	1.99	0.69
1:V:159:LEU:HD13	1:V:220:PRO:HG3	1.75	0.69
1:W:159:LEU:HD13	1:W:220:PRO:HG3	1.75	0.69
1:X:552:ILE:CG1	1:t:127:THR:CA	2.71	0.69
1:Z:159:LEU:HD13	1:Z:220:PRO:HG3	1.75	0.69
1:Z:190:LYS:HZ1	1:r:190:LYS:CD	2.05	0.69
1:h:159:LEU:HD13	1:h:220:PRO:HG3	1.75	0.69
1:i:87:GLU:CD	1:y:395:LYS:HE3	2.18	0.69
1:i:92:PRO:O	1:y:242:SER:HB2	1.92	0.69
1:i:127:THR:CA	1:n:552:ILE:CG1	2.71	0.69
1:i:551:THR:C	1:n:127:THR:HG22	2.18	0.69
1:m:552:ILE:CG1	1:z:127:THR:CA	2.71	0.69
1:p:159:LEU:HD13	1:p:220:PRO:HG3	1.75	0.69
1:r:159:LEU:HD13	1:r:220:PRO:HG3	1.75	0.69
1:O:127:THR:HA	1:U:552:ILE:CG1	2.21	0.69
1:l:87:GLU:CD	1:l:395:LYS:HE3	2.18	0.69
1:l:159:LEU:HD13	1:l:220:PRO:HG3	1.75	0.69
1:l:550:SER:O	1:u:125:THR:CB	2.41	0.69
1:2:552:ILE:CG1	1:T:127:THR:CA	2.71	0.69
1:3:244:ASN:HD22	1:P:93:GLU:CD	1.99	0.69
1:4:93:GLU:CD	1:h:244:ASN:HD22	1.99	0.69
1:5:92:PRO:O	1:n:242:SER:HB2	1.92	0.69
1:5:127:THR:HG22	1:F:551:THR:C	2.18	0.69
1:7:92:PRO:O	1:P:242:SER:HB2	1.92	0.69
1:7:127:THR:CA	1:N:552:ILE:CG1	2.71	0.69
1:A:127:THR:HG22	1:Y:551:THR:C	2.18	0.69
1:A:550:SER:O	1:Y:125:THR:CB	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:549:MET:HE2	1:s:125:THR:HG1	1.58	0.69
1:C:244:ASN:HD22	1:L:93:GLU:CD	1.99	0.69
1:E:244:ASN:HD22	1:F:93:GLU:CD	1.99	0.69
1:E:552:ILE:CG1	1:k:127:THR:CA	2.71	0.69
1:F:103:ILE:HG12	1:F:225:ARG:HG2	1.75	0.69
1:G:127:THR:HG22	1:j:551:THR:C	2.18	0.69
1:I:125:THR:CB	1:l:550:SER:O	2.41	0.69
1:I:244:ASN:HD22	1:e:93:GLU:CD	1.99	0.69
1:J:127:THR:HG22	1:L:551:THR:C	2.18	0.69
1:K:157:LEU:HD22	1:K:205:GLN:CB	2.23	0.69
1:K:550:SER:O	1:h:125:THR:CB	2.41	0.69
1:L:103:ILE:HG12	1:L:225:ARG:HG2	1.75	0.69
1:Q:127:THR:CG2	1:o:551:THR:HA	2.18	0.69
1:Q:551:THR:HA	1:o:127:THR:CG2	2.17	0.69
1:T:242:SER:HB2	1:U:92:PRO:O	1.92	0.69
1:W:125:THR:CB	1:b:550:SER:O	2.41	0.69
1:W:127:THR:HG22	1:b:551:THR:C	2.18	0.69
1:W:157:LEU:HD22	1:W:205:GLN:CB	2.23	0.69
1:W:244:ASN:HD22	1:f:93:GLU:CD	2.00	0.69
1:W:551:THR:C	1:b:127:THR:HG22	2.18	0.69
1:Y:157:LEU:HD22	1:Y:205:GLN:CB	2.23	0.69
1:Y:159:LEU:HD13	1:Y:220:PRO:HG3	1.75	0.69
1:f:159:LEU:HD13	1:f:220:PRO:HG3	1.75	0.69
1:i:190:LYS:HZ1	1:y:190:LYS:CD	2.06	0.69
1:l:157:LEU:HD22	1:l:205:GLN:CB	2.23	0.69
1:l:127:THR:CA	1:u:552:ILE:CG1	2.71	0.69
1:3:127:THR:CA	1:x:552:ILE:CG1	2.71	0.69
1:3:190:LYS:CD	1:P:190:LYS:HZ1	2.06	0.69
1:6:103:ILE:HG12	1:6:225:ARG:HG2	1.75	0.69
1:6:159:LEU:HD13	1:6:220:PRO:HG3	1.75	0.69
1:7:125:THR:CB	1:N:550:SER:O	2.41	0.69
1:7:242:SER:HB2	1:s:92:PRO:O	1.92	0.69
1:B:127:THR:HG23	1:s:551:THR:CA	2.21	0.69
1:C:92:PRO:O	1:x:242:SER:HB2	1.92	0.69
1:C:93:GLU:CD	1:x:244:ASN:HD22	1.99	0.69
1:C:125:THR:CB	1:a:550:SER:O	2.41	0.69
1:C:127:THR:HG22	1:a:551:THR:C	2.18	0.69
1:D:93:GLU:CD	1:Y:244:ASN:HD22	2.00	0.69
1:E:93:GLU:CD	1:S:244:ASN:HD22	1.99	0.69
1:G:244:ASN:HD22	1:a:93:GLU:CD	1.99	0.69
1:H:127:THR:CA	1:S:552:ILE:CG1	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:190:LYS:CD	1:O:190:LYS:HZ1	2.06	0.69
1:J:92:PRO:O	1:c:242:SER:HB2	1.92	0.69
1:J:157:LEU:HD22	1:J:205:GLN:CB	2.23	0.69
1:J:552:ILE:CG1	1:L:127:THR:CA	2.71	0.69
1:R:157:LEU:HD22	1:R:205:GLN:CB	2.23	0.69
1:R:395:LYS:HE3	1:m:87:GLU:CD	2.18	0.69
1:V:157:LEU:HD22	1:V:205:GLN:CB	2.23	0.69
1:W:92:PRO:O	1:a:242:SER:HB2	1.92	0.69
1:g:92:PRO:O	1:t:242:SER:HB2	1.92	0.69
1:g:125:THR:CB	1:r:550:SER:O	2.41	0.69
1:g:552:ILE:CG1	1:r:127:THR:CA	2.71	0.69
1:m:127:THR:HG22	1:z:551:THR:C	2.18	0.69
1:o:92:PRO:O	1:u:242:SER:HB2	1.92	0.69
1:p:190:LYS:CD	1:v:190:LYS:HZ1	2.05	0.69
1:q:157:LEU:HD22	1:q:205:GLN:CB	2.23	0.69
1:u:92:PRO:O	1:z:242:SER:HB2	1.92	0.69
1:0:127:THR:CA	1:U:552:ILE:CG1	2.71	0.68
1:2:127:THR:CA	1:T:552:ILE:CG1	2.71	0.68
1:2:550:SER:O	1:T:125:THR:CB	2.41	0.68
1:5:127:THR:CA	1:F:552:ILE:CG1	2.71	0.68
1:5:157:LEU:HD22	1:5:205:GLN:CB	2.23	0.68
1:6:551:THR:CA	1:c:127:THR:HG23	2.21	0.68
1:7:552:ILE:CG1	1:N:127:THR:CA	2.71	0.68
1:A:551:THR:C	1:Y:127:THR:HG22	2.18	0.68
1:B:127:THR:CA	1:s:552:ILE:CG1	2.71	0.68
1:D:87:GLU:CD	1:Y:395:LYS:HE3	2.18	0.68
1:E:92:PRO:O	1:S:242:SER:HB2	1.92	0.68
1:E:125:THR:CB	1:k:550:SER:O	2.41	0.68
1:E:127:THR:HG22	1:k:551:THR:C	2.18	0.68
1:G:190:LYS:HZ1	1:M:190:LYS:CD	2.05	0.68
1:G:552:ILE:CG1	1:j:127:THR:CA	2.71	0.68
1:J:127:THR:CA	1:L:552:ILE:CG1	2.71	0.68
1:M:87:GLU:CD	1:f:395:LYS:HE3	2.18	0.68
1:O:242:SER:HB2	1:T:92:PRO:O	1.92	0.68
1:Q:92:PRO:O	1:g:242:SER:HB2	1.92	0.68
1:Q:157:LEU:HD22	1:Q:205:GLN:CB	2.23	0.68
1:R:550:SER:O	1:y:125:THR:CB	2.41	0.68
1:X:87:GLU:CD	1:w:395:LYS:HE3	2.18	0.68
1:X:127:THR:HG22	1:t:551:THR:C	2.18	0.68
1:d:125:THR:CB	1:v:550:SER:O	2.41	0.68
1:d:395:LYS:HE3	1:q:87:GLU:CD	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:551:THR:C	1:v:127:THR:HG22	2.18	0.68
1:f:125:THR:CB	1:q:550:SER:O	2.41	0.68
1:i:103:ILE:HG12	1:i:225:ARG:HG2	1.75	0.68
1:i:159:LEU:HD13	1:i:220:PRO:HG3	1.75	0.68
1:w:157:LEU:HD22	1:w:205:GLN:CB	2.23	0.68
1:x:159:LEU:HD13	1:x:220:PRO:HG3	1.75	0.68
1:y:103:ILE:HG12	1:y:225:ARG:HG2	1.75	0.68
1:0:125:THR:CB	1:U:550:SER:O	2.41	0.68
1:0:157:LEU:HD22	1:0:205:GLN:CB	2.23	0.68
1:2:125:THR:CB	1:T:550:SER:O	2.41	0.68
1:3:125:THR:CB	1:x:550:SER:O	2.41	0.68
1:5:552:ILE:CG1	1:F:127:THR:CA	2.71	0.68
1:B:125:THR:CB	1:s:550:SER:O	2.41	0.68
1:B:157:LEU:HD22	1:B:205:GLN:CB	2.23	0.68
1:D:125:THR:CB	1:V:550:SER:O	2.41	0.68
1:D:395:LYS:HE3	1:p:87:GLU:CD	2.18	0.68
1:I:551:THR:C	1:l:127:THR:HG22	2.18	0.68
1:K:127:THR:HG22	1:h:551:THR:C	2.18	0.68
1:M:127:THR:CA	1:p:552:ILE:CG1	2.71	0.68
1:M:552:ILE:CG1	1:p:127:THR:CA	2.71	0.68
1:P:552:ILE:CG1	1:e:127:THR:CA	2.71	0.68
1:Q:127:THR:CA	1:o:552:ILE:CG1	2.71	0.68
1:Q:550:SER:O	1:o:125:THR:CB	2.41	0.68
1:Q:552:ILE:CG1	1:o:127:THR:CA	2.71	0.68
1:R:127:THR:CA	1:y:552:ILE:CG1	2.71	0.68
1:V:87:GLU:CD	1:j:395:LYS:HE3	2.18	0.68
1:V:92:PRO:O	1:j:242:SER:HB2	1.92	0.68
1:W:395:LYS:HE3	1:f:87:GLU:CD	2.18	0.68
1:Y:92:PRO:O	1:k:242:SER:HB2	1.92	0.68
1:Z:103:ILE:HG12	1:Z:225:ARG:HG2	1.75	0.68
1:d:127:THR:CA	1:v:552:ILE:CG1	2.71	0.68
1:d:242:SER:HB2	1:q:92:PRO:O	1.92	0.68
1:o:157:LEU:HD22	1:o:205:GLN:CB	2.23	0.68
1:0:552:ILE:CG1	1:U:127:THR:CA	2.71	0.68
1:4:92:PRO:O	1:h:242:SER:HB2	1.92	0.68
1:4:127:THR:CA	1:O:552:ILE:CG1	2.71	0.68
1:6:127:THR:HG22	1:c:551:THR:C	2.18	0.68
1:7:157:LEU:HD22	1:7:205:GLN:CB	2.23	0.68
1:7:550:SER:O	1:N:125:THR:CB	2.41	0.68
1:B:190:LYS:CD	1:n:190:LYS:HZ1	2.06	0.68
1:E:127:THR:CA	1:k:552:ILE:CG1	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:550:SER:O	1:j:125:THR:CB	2.41	0.68
1:H:125:THR:CB	1:S:550:SER:O	2.41	0.68
1:I:93:GLU:CD	1:Q:244:ASN:HD22	1.99	0.68
1:P:127:THR:HG22	1:e:551:THR:C	2.18	0.68
1:P:550:SER:O	1:e:125:THR:CB	2.41	0.68
1:Q:125:THR:CB	1:o:550:SER:O	2.41	0.68
1:R:127:THR:HG22	1:y:551:THR:C	2.18	0.68
1:R:244:ASN:HD22	1:m:93:GLU:CD	2.00	0.68
1:S:159:LEU:HD13	1:S:220:PRO:HG3	1.75	0.68
1:U:103:ILE:HG12	1:U:225:ARG:HG2	1.75	0.68
1:X:93:GLU:CD	1:w:244:ASN:HD22	2.00	0.68
1:X:157:LEU:HD22	1:X:205:GLN:CB	2.23	0.68
1:X:244:ASN:HD22	1:x:93:GLU:CD	1.99	0.68
1:Z:125:THR:CB	1:w:550:SER:O	2.41	0.68
1:Z:551:THR:C	1:w:127:THR:HG22	2.18	0.68
1:Z:552:ILE:CG1	1:w:127:THR:CA	2.71	0.68
1:g:127:THR:HG22	1:r:551:THR:C	2.18	0.68
1:h:93:GLU:CD	1:o:244:ASN:HD22	1.99	0.68
1:i:551:THR:CA	1:n:127:THR:HG23	2.21	0.68
1:m:127:THR:CA	1:z:552:ILE:CG1	2.71	0.68
1:m:157:LEU:HD22	1:m:205:GLN:CB	2.23	0.68
1:s:103:ILE:HG12	1:s:225:ARG:HG2	1.75	0.68
1:2:103:ILE:HG12	1:2:225:ARG:HG2	1.75	0.68
1:3:159:LEU:HD13	1:3:220:PRO:HG3	1.75	0.68
1:4:125:THR:CB	1:O:550:SER:O	2.41	0.68
1:4:157:LEU:HD22	1:4:205:GLN:CB	2.23	0.68
1:5:87:GLU:CD	1:n:395:LYS:HE3	2.18	0.68
1:5:549:MET:HE2	1:F:125:THR:HG1	1.57	0.68
1:6:93:GLU:CD	1:Z:244:ASN:HD22	1.99	0.68
1:A:92:PRO:O	1:U:242:SER:HB2	1.92	0.68
1:A:159:LEU:HD13	1:A:220:PRO:HG3	1.75	0.68
1:B:552:ILE:CG1	1:s:127:THR:CA	2.71	0.68
1:C:127:THR:CA	1:a:552:ILE:CG1	2.71	0.68
1:I:242:SER:HB2	1:e:92:PRO:O	1.92	0.68
1:J:87:GLU:CD	1:c:395:LYS:HE3	2.18	0.68
1:J:125:THR:CB	1:L:550:SER:O	2.41	0.68
1:L:157:LEU:HD22	1:L:205:GLN:CB	2.23	0.68
1:N:103:ILE:HG12	1:N:225:ARG:HG2	1.75	0.68
1:O:395:LYS:HE3	1:T:87:GLU:CD	2.18	0.68
1:R:552:ILE:CG1	1:y:127:THR:CA	2.71	0.68
1:T:157:LEU:HD22	1:T:205:GLN:CB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:127:THR:CA	1:t:552:ILE:CG1	2.71	0.68
1:b:159:LEU:HD13	1:b:220:PRO:HG3	1.75	0.68
1:d:127:THR:HG22	1:v:551:THR:C	2.18	0.68
1:g:551:THR:C	1:r:127:THR:HG22	2.18	0.68
1:i:127:THR:HG22	1:n:551:THR:C	2.18	0.68
1:k:73:GLN:CB	1:v:236:ILE:HD11	2.23	0.68
1:l:551:THR:C	1:u:127:THR:HG22	2.18	0.68
1:3:552:ILE:CG1	1:x:127:THR:CA	2.71	0.68
1:4:551:THR:C	1:O:127:THR:HG22	2.18	0.68
1:5:125:THR:CB	1:F:550:SER:O	2.41	0.68
1:7:87:GLU:CD	1:P:395:LYS:HE3	2.18	0.68
1:E:157:LEU:HD22	1:E:205:GLN:CB	2.23	0.68
1:F:157:LEU:HD22	1:F:205:GLN:CB	2.23	0.68
1:G:127:THR:CA	1:j:552:ILE:CG1	2.71	0.68
1:G:236:ILE:HD11	1:a:73:GLN:CB	2.23	0.68
1:G:551:THR:C	1:j:127:THR:HG22	2.18	0.68
1:H:159:LEU:HD13	1:H:220:PRO:HG3	1.75	0.68
1:H:244:ASN:HD22	1:O:93:GLU:CD	1.99	0.68
1:T:159:LEU:HD13	1:T:220:PRO:HG3	1.75	0.68
1:b:92:PRO:O	1:s:242:SER:HB2	1.92	0.68
1:d:552:ILE:CG1	1:v:127:THR:CA	2.71	0.68
1:f:550:SER:O	1:q:125:THR:CB	2.41	0.68
1:g:87:GLU:CD	1:t:395:LYS:HE3	2.18	0.68
1:g:550:SER:O	1:r:125:THR:CB	2.41	0.68
1:p:157:LEU:HD22	1:p:205:GLN:CB	2.23	0.68
1:u:87:GLU:CD	1:z:395:LYS:HE3	2.18	0.68
1:0:93:GLU:CD	1:V:244:ASN:HD22	2.00	0.68
1:0:244:ASN:HD22	1:c:93:GLU:CD	1.99	0.68
1:1:127:THR:HG22	1:u:551:THR:C	2.18	0.68
1:5:103:ILE:HG12	1:5:225:ARG:HG2	1.75	0.68
1:B:93:GLU:CD	1:q:244:ASN:HD22	2.00	0.68
1:D:550:SER:O	1:V:125:THR:CB	2.41	0.68
1:H:157:LEU:HD22	1:H:205:GLN:CB	2.23	0.68
1:H:552:ILE:CG1	1:S:127:THR:CA	2.71	0.68
1:M:157:LEU:HD22	1:M:205:GLN:CB	2.23	0.68
1:P:127:THR:CA	1:e:552:ILE:CG1	2.71	0.68
1:Z:127:THR:CA	1:w:552:ILE:CG1	2.71	0.68
1:e:157:LEU:HD22	1:e:205:GLN:CB	2.23	0.68
1:k:93:GLU:CD	1:v:244:ASN:HD22	1.99	0.68
1:v:157:LEU:HD22	1:v:205:GLN:CB	2.23	0.68
1:x:157:LEU:HD22	1:x:205:GLN:CB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:125:THR:CB	1:u:550:SER:O	2.41	0.68
1:2:93:GLU:CD	1:6:244:ASN:HD22	1.99	0.68
1:3:127:THR:HG22	1:x:551:THR:C	2.18	0.68
1:3:157:LEU:HD22	1:3:205:GLN:CB	2.23	0.68
1:7:159:LEU:HD13	1:7:220:PRO:HG3	1.75	0.68
1:A:125:THR:CB	1:Y:550:SER:O	2.41	0.68
1:B:244:ASN:HD22	1:n:93:GLU:CD	1.99	0.68
1:B:551:THR:CA	1:s:127:THR:HG23	2.21	0.68
1:C:157:LEU:HD22	1:C:205:GLN:CB	2.23	0.68
1:G:103:ILE:HG12	1:G:225:ARG:HG2	1.75	0.68
1:G:157:LEU:HD22	1:G:205:GLN:CB	2.23	0.68
1:G:395:LYS:HE3	1:a:87:GLU:CD	2.18	0.68
1:I:157:LEU:HD22	1:I:205:GLN:CB	2.23	0.68
1:J:103:ILE:HG12	1:J:225:ARG:HG2	1.75	0.68
1:M:190:LYS:HZ1	1:f:190:LYS:CD	2.06	0.68
1:N:93:GLU:CD	1:i:244:ASN:HD22	1.99	0.68
1:N:157:LEU:HD22	1:N:205:GLN:CB	2.23	0.68
1:O:190:LYS:CD	1:T:190:LYS:HZ1	2.05	0.68
1:S:157:LEU:HD22	1:S:205:GLN:CB	2.23	0.68
1:g:157:LEU:HD22	1:g:205:GLN:CB	2.23	0.68
1:i:125:THR:CB	1:n:550:SER:O	2.41	0.68
1:l:159:LEU:HD13	1:l:220:PRO:HG3	1.75	0.68
1:v:103:ILE:HG12	1:v:225:ARG:HG2	1.75	0.68
1:2:157:LEU:HD22	1:2:205:GLN:CB	2.23	0.68
1:4:552:ILE:CG1	1:O:127:THR:CA	2.71	0.68
1:A:73:GLN:CB	1:U:236:ILE:HD11	2.23	0.68
1:A:127:THR:CA	1:Y:552:ILE:CG1	2.71	0.68
1:D:552:ILE:CG1	1:V:127:THR:CA	2.71	0.68
1:G:125:THR:CB	1:j:550:SER:O	2.41	0.68
1:G:127:THR:HG23	1:j:551:THR:CA	2.21	0.68
1:J:244:ASN:HD22	1:j:93:GLU:CD	1.99	0.68
1:K:190:LYS:CD	1:r:190:LYS:HZ1	2.06	0.68
1:R:127:THR:CG2	1:y:551:THR:HA	2.17	0.68
1:S:73:GLN:CB	1:m:236:ILE:HD11	2.23	0.68
1:W:550:SER:O	1:b:125:THR:CB	2.41	0.68
1:W:552:ILE:CG1	1:b:127:THR:CA	2.71	0.68
1:d:550:SER:O	1:v:125:THR:CB	2.41	0.68
1:h:157:LEU:HD22	1:h:205:GLN:CB	2.23	0.68
1:k:87:GLU:CD	1:v:395:LYS:HE3	2.18	0.68
1:u:157:LEU:HD22	1:u:205:GLN:CB	2.23	0.68
1:O:550:SER:O	1:U:125:THR:CB	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:552:ILE:CG1	1:u:127:THR:CA	2.71	0.68
1:6:125:THR:CB	1:c:550:SER:O	2.41	0.68
1:7:395:LYS:HE3	1:s:87:GLU:CD	2.18	0.68
1:B:190:LYS:HZ1	1:q:190:LYS:CD	2.06	0.68
1:D:127:THR:CA	1:V:552:ILE:CG1	2.71	0.68
1:E:550:SER:O	1:k:125:THR:CB	2.41	0.68
1:I:127:THR:CA	1:l:552:ILE:CG1	2.71	0.68
1:I:552:ILE:CG1	1:l:127:THR:CA	2.71	0.68
1:K:127:THR:CA	1:h:552:ILE:CG1	2.71	0.68
1:K:159:LEU:HD13	1:K:220:PRO:HG3	1.75	0.68
1:K:552:ILE:CG1	1:h:127:THR:CA	2.71	0.68
1:M:550:SER:O	1:p:125:THR:CB	2.41	0.68
1:T:395:LYS:HE3	1:U:87:GLU:CD	2.18	0.68
1:V:103:ILE:HG12	1:V:225:ARG:HG2	1.75	0.68
1:W:127:THR:CA	1:b:552:ILE:CG1	2.71	0.68
1:Z:127:THR:HG22	1:w:551:THR:C	2.18	0.68
1:Z:551:THR:HA	1:w:127:THR:CG2	2.17	0.68
1:f:552:ILE:CG1	1:q:127:THR:CA	2.71	0.68
1:g:127:THR:CA	1:r:552:ILE:CG1	2.71	0.68
1:l:103:ILE:HG12	1:l:225:ARG:HG2	1.75	0.68
1:n:103:ILE:HG12	1:n:225:ARG:HG2	1.75	0.68
1:q:103:ILE:HG12	1:q:225:ARG:HG2	1.75	0.68
1:z:157:LEU:HD22	1:z:205:GLN:CB	2.23	0.68
1:0:190:LYS:HZ1	1:V:190:LYS:CD	2.06	0.68
1:0:551:THR:CA	1:U:127:THR:HG23	2.21	0.68
1:2:96:PRO:CB	1:6:241:LEU:O	2.42	0.68
1:3:241:LEU:O	1:P:96:PRO:CB	2.42	0.68
1:7:103:ILE:HG12	1:7:225:ARG:HG2	1.75	0.68
1:A:552:ILE:CG1	1:Y:127:THR:CA	2.71	0.68
1:C:550:SER:O	1:a:125:THR:CB	2.41	0.68
1:H:127:THR:HG22	1:S:551:THR:C	2.18	0.68
1:I:236:ILE:HD11	1:e:73:GLN:CB	2.23	0.68
1:K:103:ILE:HG12	1:K:225:ARG:HG2	1.75	0.68
1:N:96:PRO:CB	1:i:241:LEU:O	2.42	0.68
1:V:190:LYS:HZ1	1:j:190:LYS:CD	2.06	0.68
1:X:236:ILE:HD11	1:x:73:GLN:CB	2.23	0.68
1:Z:87:GLU:CD	1:r:395:LYS:HE3	2.18	0.68
1:c:103:ILE:HG12	1:c:225:ARG:HG2	1.75	0.68
1:c:157:LEU:HD22	1:c:205:GLN:CB	2.23	0.68
1:d:551:THR:CA	1:v:127:THR:HG23	2.21	0.68
1:f:127:THR:CA	1:q:552:ILE:CG1	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:87:GLU:CD	1:u:395:LYS:HE3	2.18	0.68
1:s:157:LEU:HD22	1:s:205:GLN:CB	2.23	0.68
1:t:157:LEU:HD22	1:t:205:GLN:CB	2.23	0.68
1:x:103:ILE:HG12	1:x:225:ARG:HG2	1.75	0.68
1:0:241:LEU:O	1:c:96:PRO:CB	2.42	0.67
1:1:96:PRO:N	1:l:241:LEU:O	2.27	0.67
1:1:103:ILE:HG12	1:1:225:ARG:HG2	1.75	0.67
1:1:395:LYS:HE3	1:y:87:GLU:CD	2.18	0.67
1:5:159:LEU:HD13	1:5:220:PRO:HG3	1.75	0.67
1:A:236:ILE:HD11	1:H:73:GLN:CB	2.23	0.67
1:B:241:LEU:O	1:n:96:PRO:CB	2.42	0.67
1:B:550:SER:O	1:s:125:THR:CB	2.41	0.67
1:C:96:PRO:CB	1:x:241:LEU:O	2.42	0.67
1:E:96:PRO:CB	1:S:241:LEU:O	2.42	0.67
1:H:241:LEU:O	1:O:96:PRO:CB	2.42	0.67
1:H:551:THR:CA	1:S:127:THR:HG23	2.21	0.67
1:J:159:LEU:HD13	1:J:220:PRO:HG3	1.75	0.67
1:K:241:LEU:O	1:r:96:PRO:N	2.27	0.67
1:M:125:THR:CB	1:p:550:SER:O	2.41	0.67
1:N:87:GLU:CD	1:i:395:LYS:HE3	2.18	0.67
1:O:244:ASN:HD22	1:T:93:GLU:CD	2.00	0.67
1:P:159:LEU:HD13	1:P:220:PRO:HG3	1.74	0.67
1:Q:87:GLU:CD	1:g:395:LYS:HE3	2.18	0.67
1:S:103:ILE:HG12	1:S:225:ARG:HG2	1.75	0.67
1:T:103:ILE:HG12	1:T:225:ARG:HG2	1.75	0.67
1:U:157:LEU:HD22	1:U:205:GLN:CB	2.23	0.67
1:b:73:GLN:CB	1:s:236:ILE:HD11	2.23	0.67
1:d:190:LYS:CD	1:q:190:LYS:HZ1	2.06	0.67
1:d:241:LEU:O	1:q:96:PRO:CB	2.42	0.67
1:g:103:ILE:HG12	1:g:225:ARG:HG2	1.75	0.67
1:i:93:GLU:CD	1:y:244:ASN:HD22	1.99	0.67
1:r:103:ILE:HG12	1:r:225:ARG:HG2	1.75	0.67
1:t:159:LEU:HD13	1:t:220:PRO:HG3	1.75	0.67
1:u:103:ILE:HG12	1:u:225:ARG:HG2	1.75	0.67
1:z:159:LEU:HD13	1:z:220:PRO:HG3	1.75	0.67
1:2:87:GLU:CD	1:6:395:LYS:HE3	2.18	0.67
1:3:73:GLN:CB	1:b:236:ILE:HD11	2.23	0.67
1:3:96:PRO:HB3	1:b:241:LEU:O	1.94	0.67
1:5:241:LEU:O	1:d:96:PRO:HB3	1.95	0.67
1:7:96:PRO:HB3	1:P:241:LEU:O	1.95	0.67
1:A:241:LEU:O	1:H:96:PRO:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:241:LEU:O	1:R:96:PRO:CB	2.42	0.67
1:G:190:LYS:CD	1:a:190:LYS:HZ1	2.07	0.67
1:I:96:PRO:N	1:Q:241:LEU:O	2.27	0.67
1:O:241:LEU:O	1:T:96:PRO:HB3	1.95	0.67
1:R:551:THR:C	1:y:127:THR:HG22	2.18	0.67
1:V:96:PRO:CB	1:j:241:LEU:O	2.42	0.67
1:X:96:PRO:HB3	1:w:241:LEU:O	1.95	0.67
1:h:96:PRO:N	1:o:241:LEU:O	2.27	0.67
1:n:157:LEU:HD22	1:n:205:GLN:CB	2.23	0.67
1:p:103:ILE:HG12	1:p:225:ARG:HG2	1.75	0.67
1:O:159:LEU:HD13	1:O:220:PRO:HG3	1.75	0.67
1:3:551:THR:CA	1:x:127:THR:HG23	2.21	0.67
1:4:96:PRO:CB	1:h:241:LEU:O	2.42	0.67
1:4:96:PRO:N	1:h:241:LEU:O	2.28	0.67
1:4:103:ILE:HG12	1:4:225:ARG:HG2	1.75	0.67
1:5:244:ASN:HD22	1:d:93:GLU:CD	1.99	0.67
1:7:96:PRO:N	1:P:241:LEU:O	2.28	0.67
1:7:241:LEU:O	1:s:96:PRO:CB	2.42	0.67
1:7:241:LEU:O	1:s:96:PRO:N	2.27	0.67
1:B:241:LEU:O	1:n:96:PRO:HB3	1.95	0.67
1:I:241:LEU:O	1:e:96:PRO:N	2.28	0.67
1:J:241:LEU:O	1:j:96:PRO:HB3	1.95	0.67
1:L:241:LEU:O	1:w:96:PRO:CB	2.42	0.67
1:M:103:ILE:HG12	1:M:225:ARG:HG2	1.75	0.67
1:O:159:LEU:HD13	1:O:220:PRO:HG3	1.75	0.67
1:O:241:LEU:O	1:T:96:PRO:N	2.28	0.67
1:R:241:LEU:O	1:m:96:PRO:HB3	1.95	0.67
1:V:96:PRO:HB3	1:j:241:LEU:O	1.95	0.67
1:W:96:PRO:CB	1:a:241:LEU:O	2.42	0.67
1:W:103:ILE:HG12	1:W:225:ARG:HG2	1.75	0.67
1:Y:96:PRO:CB	1:k:241:LEU:O	2.42	0.67
1:d:157:LEU:HD22	1:d:205:GLN:CB	2.23	0.67
1:d:241:LEU:O	1:q:96:PRO:HB3	1.95	0.67
1:g:96:PRO:CB	1:t:241:LEU:O	2.42	0.67
1:k:190:LYS:HZ1	1:v:190:LYS:CD	2.07	0.67
1:u:96:PRO:CB	1:z:241:LEU:O	2.42	0.67
1:O:241:LEU:O	1:c:96:PRO:HB3	1.94	0.67
1:l:241:LEU:O	1:y:96:PRO:N	2.28	0.67
1:2:127:THR:HA	1:T:552:ILE:CB	2.25	0.67
1:2:552:ILE:CB	1:T:127:THR:HA	2.25	0.67
1:6:96:PRO:HB3	1:Z:241:LEU:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:93:GLU:CD	1:P:244:ASN:HD22	1.99	0.67
1:7:552:ILE:CB	1:N:127:THR:HA	2.25	0.67
1:B:159:LEU:HD13	1:B:220:PRO:HG3	1.75	0.67
1:I:241:LEU:O	1:e:96:PRO:CB	2.43	0.67
1:M:127:THR:HA	1:p:552:ILE:CB	2.25	0.67
1:M:552:ILE:CB	1:p:127:THR:HA	2.25	0.67
1:R:159:LEU:HD13	1:R:220:PRO:HG3	1.75	0.67
1:S:96:PRO:N	1:m:241:LEU:O	2.27	0.67
1:T:241:LEU:O	1:U:96:PRO:N	2.27	0.67
1:T:241:LEU:O	1:U:96:PRO:CB	2.42	0.67
1:Y:103:ILE:HG12	1:Y:225:ARG:HG2	1.75	0.67
1:e:241:LEU:O	1:t:96:PRO:CB	2.42	0.67
1:f:103:ILE:HG12	1:f:225:ARG:HG2	1.75	0.67
1:f:551:THR:C	1:q:127:THR:HG22	2.18	0.67
1:j:157:LEU:HD22	1:j:205:GLN:CB	2.23	0.67
1:m:103:ILE:HG12	1:m:225:ARG:HG2	1.75	0.67
1:m:550:SER:O	1:z:125:THR:CB	2.41	0.67
1:o:103:ILE:HG12	1:o:225:ARG:HG2	1.75	0.67
1:p:395:LYS:HE3	1:v:87:GLU:CD	2.18	0.67
1:s:159:LEU:HD13	1:s:220:PRO:HG3	1.75	0.67
1:v:159:LEU:HD13	1:v:220:PRO:HG3	1.75	0.67
1:w:159:LEU:HD13	1:w:220:PRO:HG3	1.75	0.67
1:0:103:ILE:HG12	1:0:225:ARG:HG2	1.75	0.67
1:4:241:LEU:O	1:z:96:PRO:CB	2.42	0.67
1:7:127:THR:HA	1:N:552:ILE:CB	2.25	0.67
1:7:241:LEU:O	1:s:96:PRO:HB3	1.95	0.67
1:D:127:THR:HA	1:V:552:ILE:CB	2.25	0.67
1:D:551:THR:C	1:V:127:THR:HG22	2.18	0.67
1:E:395:LYS:HE3	1:F:87:GLU:CD	2.18	0.67
1:G:96:PRO:CB	1:M:241:LEU:O	2.42	0.67
1:G:159:LEU:HD13	1:G:220:PRO:HG3	1.75	0.67
1:H:103:ILE:HG12	1:H:225:ARG:HG2	1.75	0.67
1:I:241:LEU:O	1:e:96:PRO:HB3	1.95	0.67
1:J:241:LEU:O	1:j:96:PRO:CB	2.42	0.67
1:K:127:THR:HG23	1:h:551:THR:CA	2.21	0.67
1:O:157:LEU:HD22	1:O:205:GLN:CB	2.23	0.67
1:P:157:LEU:HD22	1:P:205:GLN:CB	2.23	0.67
1:Q:96:PRO:N	1:g:241:LEU:O	2.27	0.67
1:R:127:THR:HA	1:y:552:ILE:CB	2.25	0.67
1:R:552:ILE:CB	1:y:127:THR:HA	2.25	0.67
1:U:159:LEU:HD13	1:U:220:PRO:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:73:GLN:CB	1:j:236:ILE:HD11	2.23	0.67
1:X:241:LEU:O	1:x:96:PRO:N	2.27	0.67
1:X:550:SER:O	1:t:125:THR:CB	2.41	0.67
1:Z:96:PRO:N	1:r:241:LEU:O	2.28	0.67
1:Z:127:THR:HA	1:w:552:ILE:CB	2.25	0.67
1:Z:552:ILE:CB	1:w:127:THR:HA	2.25	0.67
1:b:96:PRO:CB	1:s:241:LEU:O	2.42	0.67
1:e:103:ILE:HG12	1:e:225:ARG:HG2	1.75	0.67
1:f:127:THR:HA	1:q:552:ILE:CB	2.25	0.67
1:i:96:PRO:HB3	1:y:241:LEU:O	1.94	0.67
1:k:96:PRO:CB	1:v:241:LEU:O	2.42	0.67
1:o:96:PRO:N	1:u:241:LEU:O	2.27	0.67
1:o:159:LEU:HD13	1:o:220:PRO:HG3	1.75	0.67
1:y:157:LEU:HD22	1:y:205:GLN:CB	2.23	0.67
1:0:96:PRO:CB	1:V:241:LEU:O	2.42	0.67
1:3:103:ILE:HG12	1:3:225:ARG:HG2	1.75	0.67
1:4:96:PRO:HB3	1:h:241:LEU:O	1.95	0.67
1:4:241:LEU:O	1:z:96:PRO:HB3	1.95	0.67
1:5:241:LEU:O	1:d:96:PRO:CB	2.42	0.67
1:A:96:PRO:CB	1:U:241:LEU:O	2.42	0.67
1:B:103:ILE:HG12	1:B:225:ARG:HG2	1.75	0.67
1:D:103:ILE:HG12	1:D:225:ARG:HG2	1.75	0.67
1:E:103:ILE:HG12	1:E:225:ARG:HG2	1.75	0.67
1:G:87:GLU:CD	1:M:395:LYS:HE3	2.18	0.67
1:G:241:LEU:O	1:a:96:PRO:CB	2.42	0.67
1:N:395:LYS:HE3	1:l:87:GLU:CD	2.18	0.67
1:Q:96:PRO:HB3	1:g:241:LEU:O	1.94	0.67
1:Q:103:ILE:HG12	1:Q:225:ARG:HG2	1.75	0.67
1:Q:159:LEU:HD13	1:Q:220:PRO:HG3	1.75	0.67
1:S:87:GLU:CD	1:m:395:LYS:HE3	2.18	0.67
1:T:241:LEU:O	1:U:96:PRO:HB3	1.95	0.67
1:X:96:PRO:CB	1:w:241:LEU:O	2.42	0.67
1:X:103:ILE:HG12	1:X:225:ARG:HG2	1.75	0.67
1:X:395:LYS:HE3	1:x:87:GLU:CD	2.18	0.67
1:Z:157:LEU:HD22	1:Z:205:GLN:CB	2.23	0.67
1:a:157:LEU:HD22	1:a:205:GLN:CB	2.23	0.67
1:d:159:LEU:HD13	1:d:220:PRO:HG3	1.75	0.67
1:d:241:LEU:O	1:q:96:PRO:N	2.27	0.67
1:g:552:ILE:CB	1:r:127:THR:HA	2.25	0.67
1:i:552:ILE:CG1	1:n:127:THR:CA	2.71	0.67
1:j:159:LEU:HD13	1:j:220:PRO:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:241:LEU:O	1:v:96:PRO:CB	2.42	0.67
1:1:127:THR:HA	1:u:552:ILE:CB	2.25	0.67
1:4:551:THR:CA	1:O:127:THR:HG23	2.21	0.67
1:5:96:PRO:N	1:n:241:LEU:O	2.27	0.67
1:6:552:ILE:CG1	1:c:127:THR:CA	2.71	0.67
1:A:87:GLU:CD	1:U:395:LYS:HE3	2.18	0.67
1:A:157:LEU:HD22	1:A:205:GLN:CB	2.23	0.67
1:B:96:PRO:CB	1:q:241:LEU:O	2.42	0.67
1:C:103:ILE:HG12	1:C:225:ARG:HG2	1.75	0.67
1:C:395:LYS:HE3	1:L:87:GLU:CD	2.18	0.67
1:D:241:LEU:O	1:p:96:PRO:HB3	1.94	0.67
1:F:159:LEU:HD13	1:F:220:PRO:HG3	1.75	0.67
1:J:96:PRO:N	1:c:241:LEU:O	2.27	0.67
1:L:159:LEU:HD13	1:L:220:PRO:HG3	1.75	0.67
1:Q:96:PRO:CB	1:g:241:LEU:O	2.42	0.67
1:Q:127:THR:HA	1:o:552:ILE:CB	2.25	0.67
1:W:96:PRO:HB3	1:a:241:LEU:O	1.94	0.67
1:Y:96:PRO:HB3	1:k:241:LEU:O	1.95	0.67
1:Z:96:PRO:HB3	1:r:241:LEU:O	1.95	0.67
1:d:236:ILE:HD11	1:q:73:GLN:CB	2.23	0.67
1:e:241:LEU:O	1:t:96:PRO:HB3	1.95	0.67
1:g:96:PRO:HB3	1:t:241:LEU:O	1.95	0.67
1:k:157:LEU:HD22	1:k:205:GLN:CB	2.23	0.67
1:o:96:PRO:CB	1:u:241:LEU:O	2.42	0.67
1:o:96:PRO:HB3	1:u:241:LEU:O	1.94	0.67
1:u:96:PRO:HB3	1:z:241:LEU:O	1.95	0.67
1:0:394:TYR:HD2	1:c:85:MET:HG2	1.60	0.67
1:1:157:LEU:HD22	1:1:205:GLN:CB	2.23	0.67
1:1:241:LEU:O	1:y:96:PRO:CB	2.42	0.67
1:1:241:LEU:O	1:y:96:PRO:HB3	1.95	0.67
1:2:395:LYS:HE3	1:K:87:GLU:CD	2.18	0.67
1:3:96:PRO:CB	1:b:241:LEU:O	2.42	0.67
1:4:127:THR:HA	1:O:552:ILE:CB	2.25	0.67
1:A:96:PRO:HB3	1:U:241:LEU:O	1.95	0.67
1:A:103:ILE:HG12	1:A:225:ARG:HG2	1.75	0.67
1:A:127:THR:HA	1:Y:552:ILE:CB	2.25	0.67
1:B:394:TYR:HD2	1:n:85:MET:HG2	1.60	0.67
1:D:241:LEU:O	1:p:96:PRO:CB	2.42	0.67
1:E:241:LEU:O	1:F:96:PRO:N	2.28	0.67
1:H:241:LEU:O	1:O:96:PRO:HB3	1.95	0.67
1:I:103:ILE:HG12	1:I:225:ARG:HG2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:551:THR:CA	1:l:127:THR:HG23	2.21	0.67
1:K:241:LEU:O	1:r:96:PRO:CB	2.42	0.67
1:M:96:PRO:HB3	1:f:241:LEU:O	1.94	0.67
1:N:241:LEU:O	1:l:96:PRO:HB3	1.95	0.67
1:Q:552:ILE:CB	1:o:127:THR:HA	2.25	0.67
1:R:241:LEU:O	1:m:96:PRO:CB	2.43	0.67
1:R:241:LEU:O	1:m:96:PRO:N	2.28	0.67
1:S:96:PRO:HB3	1:m:241:LEU:O	1.94	0.67
1:V:96:PRO:N	1:j:241:LEU:O	2.27	0.67
1:X:96:PRO:N	1:w:241:LEU:O	2.28	0.67
1:Z:96:PRO:CB	1:r:241:LEU:O	2.42	0.67
1:b:96:PRO:HB3	1:s:241:LEU:O	1.95	0.67
1:b:103:ILE:HG12	1:b:225:ARG:HG2	1.75	0.67
1:b:157:LEU:HD22	1:b:205:GLN:CB	2.23	0.67
1:t:103:ILE:HG12	1:t:225:ARG:HG2	1.75	0.67
1:0:73:GLN:CB	1:V:236:ILE:HD11	2.23	0.67
1:3:241:LEU:O	1:P:96:PRO:HB3	1.95	0.67
1:3:552:ILE:CB	1:x:127:THR:HA	2.25	0.67
1:5:551:THR:CA	1:F:127:THR:HG23	2.21	0.67
1:A:241:LEU:O	1:H:96:PRO:CB	2.42	0.67
1:C:241:LEU:O	1:L:96:PRO:N	2.28	0.67
1:D:85:MET:HG2	1:Y:394:TYR:HD2	1.60	0.67
1:D:157:LEU:HD22	1:D:205:GLN:CB	2.23	0.67
1:G:96:PRO:HB3	1:M:241:LEU:O	1.95	0.67
1:H:552:ILE:CB	1:S:127:THR:HA	2.25	0.67
1:K:241:LEU:O	1:r:96:PRO:HB3	1.95	0.67
1:M:96:PRO:CB	1:f:241:LEU:O	2.42	0.67
1:P:127:THR:HG23	1:e:551:THR:CA	2.21	0.67
1:P:552:ILE:CB	1:e:127:THR:HA	2.25	0.67
1:R:103:ILE:HG12	1:R:225:ARG:HG2	1.75	0.67
1:W:552:ILE:CB	1:b:127:THR:HA	2.25	0.67
1:X:241:LEU:O	1:x:96:PRO:HB3	1.94	0.67
1:X:552:ILE:CB	1:t:127:THR:HA	2.25	0.67
1:b:87:GLU:CD	1:s:395:LYS:HE3	2.18	0.67
1:f:157:LEU:HD22	1:f:205:GLN:CB	2.23	0.67
1:h:103:ILE:HG12	1:h:225:ARG:HG2	1.75	0.67
1:p:241:LEU:O	1:v:96:PRO:HB3	1.95	0.67
1:w:103:ILE:HG12	1:w:225:ARG:HG2	1.75	0.67
1:1:96:PRO:CB	1:l:241:LEU:O	2.42	0.67
1:2:52:ILE:CG2	1:h:52:ILE:CG1	2.73	0.67
1:2:241:LEU:O	1:K:96:PRO:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:127:THR:HA	1:F:552:ILE:CB	2.25	0.67
1:A:85:MET:HG2	1:U:394:TYR:HD2	1.60	0.67
1:C:241:LEU:O	1:L:96:PRO:CB	2.42	0.67
1:G:96:PRO:N	1:M:241:LEU:O	2.27	0.67
1:G:552:ILE:CB	1:j:127:THR:HA	2.25	0.67
1:I:52:ILE:CG1	1:N:52:ILE:CG2	2.73	0.67
1:I:96:PRO:HB3	1:Q:241:LEU:O	1.95	0.67
1:I:127:THR:HA	1:l:552:ILE:CB	2.25	0.67
1:K:552:ILE:CB	1:h:127:THR:HA	2.25	0.67
1:W:85:MET:HG2	1:a:394:TYR:HD2	1.60	0.67
1:W:394:TYR:HD2	1:f:85:MET:HG2	1.60	0.67
1:Y:85:MET:HG2	1:k:394:TYR:HD2	1.60	0.67
1:Z:52:ILE:CG2	1:c:52:ILE:CG1	2.73	0.67
1:b:85:MET:HG2	1:s:394:TYR:HD2	1.60	0.67
1:d:103:ILE:HG12	1:d:225:ARG:HG2	1.75	0.67
1:e:241:LEU:O	1:t:96:PRO:N	2.27	0.67
1:e:244:ASN:HD22	1:t:93:GLU:CD	1.99	0.67
1:m:552:ILE:CB	1:z:127:THR:HA	2.25	0.67
1:o:73:GLN:CB	1:u:236:ILE:HD11	2.23	0.67
1:r:157:LEU:HD22	1:r:205:GLN:CB	2.23	0.67
1:z:103:ILE:HG12	1:z:225:ARG:HG2	1.75	0.67
1:l:96:PRO:HB3	1:l:241:LEU:O	1.95	0.66
1:4:241:LEU:O	1:z:96:PRO:N	2.27	0.66
1:5:73:GLN:CB	1:n:236:ILE:HD11	2.23	0.66
1:7:96:PRO:CB	1:P:241:LEU:O	2.42	0.66
1:B:73:GLN:CB	1:q:236:ILE:HD11	2.23	0.66
1:C:127:THR:HA	1:a:552:ILE:CB	2.25	0.66
1:E:127:THR:HA	1:k:552:ILE:CB	2.25	0.66
1:I:96:PRO:CB	1:Q:241:LEU:O	2.42	0.66
1:J:127:THR:HA	1:L:552:ILE:CB	2.25	0.66
1:J:241:LEU:O	1:j:96:PRO:N	2.28	0.66
1:O:241:LEU:O	1:T:96:PRO:CB	2.42	0.66
1:X:125:THR:HG1	1:t:549:MET:HE2	1.60	0.66
1:d:127:THR:HA	1:v:552:ILE:CB	2.25	0.66
1:h:96:PRO:HB3	1:o:241:LEU:O	1.95	0.66
1:j:103:ILE:HG12	1:j:225:ARG:HG2	1.75	0.66
1:n:52:ILE:CG1	1:y:52:ILE:CG2	2.73	0.66
1:p:241:LEU:O	1:v:96:PRO:N	2.27	0.66
1:l:53:VAL:CG1	1:R:49:ARG:HB2	2.26	0.66
1:3:96:PRO:N	1:b:241:LEU:O	2.27	0.66
1:3:127:THR:HG23	1:x:551:THR:CA	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:LEU:O	1:H:96:PRO:N	2.27	0.66
1:C:96:PRO:N	1:x:241:LEU:O	2.27	0.66
1:D:96:PRO:HB3	1:Y:241:LEU:O	1.95	0.66
1:D:552:ILE:CB	1:V:127:THR:HA	2.25	0.66
1:E:241:LEU:O	1:F:96:PRO:CB	2.42	0.66
1:E:552:ILE:CB	1:k:127:THR:HA	2.25	0.66
1:F:241:LEU:O	1:R:96:PRO:HB3	1.95	0.66
1:I:85:MET:HG2	1:Q:394:TYR:HD2	1.61	0.66
1:J:73:GLN:CB	1:c:236:ILE:HD11	2.23	0.66
1:J:551:THR:CA	1:L:127:THR:HG23	2.21	0.66
1:L:241:LEU:O	1:w:96:PRO:HB3	1.95	0.66
1:Q:73:GLN:CB	1:g:236:ILE:HD11	2.23	0.66
1:W:241:LEU:O	1:f:96:PRO:HB3	1.95	0.66
1:Z:549:MET:HE2	1:w:125:THR:HG1	1.60	0.66
1:g:551:THR:CA	1:r:127:THR:HG23	2.21	0.66
1:h:85:MET:HG2	1:o:394:TYR:HD2	1.61	0.66
1:h:96:PRO:CB	1:o:241:LEU:O	2.42	0.66
1:i:157:LEU:HD22	1:i:205:GLN:CB	2.23	0.66
1:r:53:VAL:CG1	1:w:49:ARG:HB2	2.26	0.66
1:0:53:VAL:CG1	1:6:49:ARG:HB2	2.26	0.66
1:0:96:PRO:N	1:V:241:LEU:O	2.28	0.66
1:2:53:VAL:CG1	1:h:49:ARG:HB2	2.26	0.66
1:3:53:VAL:CG1	1:e:49:ARG:HB2	2.26	0.66
1:4:49:ARG:HB2	1:H:53:VAL:CG1	2.26	0.66
1:4:244:ASN:HD22	1:z:93:GLU:CD	1.99	0.66
1:4:395:LYS:HE3	1:z:87:GLU:CD	2.18	0.66
1:5:241:LEU:O	1:d:96:PRO:N	2.27	0.66
1:5:395:LYS:HE3	1:d:87:GLU:CD	2.18	0.66
1:B:53:VAL:CG1	1:i:49:ARG:HB2	2.26	0.66
1:C:551:THR:CA	1:a:127:THR:HG23	2.21	0.66
1:E:96:PRO:N	1:S:241:LEU:O	2.27	0.66
1:H:127:THR:HG23	1:S:551:THR:CA	2.21	0.66
1:H:241:LEU:O	1:O:96:PRO:N	2.27	0.66
1:I:49:ARG:HB2	1:N:53:VAL:CG1	2.26	0.66
1:J:395:LYS:HE3	1:j:87:GLU:CD	2.18	0.66
1:N:236:ILE:HD11	1:l:73:GLN:CB	2.23	0.66
1:O:52:ILE:CG1	1:h:52:ILE:CG2	2.73	0.66
1:R:125:THR:HG1	1:y:549:MET:HE2	1.60	0.66
1:W:96:PRO:N	1:a:241:LEU:O	2.27	0.66
1:e:395:LYS:HE3	1:t:87:GLU:CD	2.18	0.66
1:g:127:THR:HA	1:r:552:ILE:CB	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:551:THR:CA	1:z:127:THR:HG23	2.21	0.66
1:u:96:PRO:N	1:z:241:LEU:O	2.28	0.66
1:0:49:ARG:HB2	1:T:53:VAL:CG1	2.26	0.66
1:0:549:MET:HE2	1:U:125:THR:HG1	1.60	0.66
1:1:73:GLN:CB	1:l:236:ILE:HD11	2.23	0.66
1:1:552:ILE:CB	1:u:127:THR:HA	2.25	0.66
1:2:236:ILE:HD11	1:K:73:GLN:CB	2.23	0.66
1:2:241:LEU:O	1:K:96:PRO:CB	2.42	0.66
1:6:96:PRO:CB	1:Z:241:LEU:O	2.42	0.66
1:C:552:ILE:CB	1:a:127:THR:HA	2.25	0.66
1:D:49:ARG:HB2	1:j:53:VAL:CG1	2.26	0.66
1:D:96:PRO:N	1:Y:241:LEU:O	2.28	0.66
1:I:395:LYS:HE3	1:e:87:GLU:CD	2.18	0.66
1:J:552:ILE:CB	1:L:127:THR:HA	2.25	0.66
1:N:241:LEU:O	1:l:96:PRO:N	2.28	0.66
1:U:53:VAL:CG1	1:Y:49:ARG:HB2	2.26	0.66
1:X:241:LEU:O	1:x:96:PRO:CB	2.42	0.66
1:a:103:ILE:HG12	1:a:225:ARG:HG2	1.75	0.66
1:d:53:VAL:CG1	1:f:49:ARG:HB2	2.26	0.66
1:f:53:VAL:CG1	1:p:49:ARG:HB2	2.26	0.66
1:f:552:ILE:CB	1:q:127:THR:HA	2.25	0.66
1:g:96:PRO:N	1:t:241:LEU:O	2.27	0.66
1:h:87:GLU:CD	1:o:395:LYS:HE3	2.18	0.66
1:i:127:THR:HA	1:n:552:ILE:CB	2.25	0.66
1:k:103:ILE:HG12	1:k:225:ARG:HG2	1.75	0.66
1:p:394:TYR:HD2	1:v:85:MET:HG2	1.61	0.66
1:0:241:LEU:O	1:c:96:PRO:N	2.28	0.66
1:1:549:MET:HE2	1:u:125:THR:HG1	1.58	0.66
1:2:241:LEU:O	1:K:96:PRO:N	2.28	0.66
1:3:241:LEU:O	1:P:96:PRO:N	2.27	0.66
1:4:53:VAL:CG1	1:m:49:ARG:HB2	2.26	0.66
1:6:96:PRO:N	1:Z:241:LEU:O	2.27	0.66
1:6:127:THR:HA	1:c:552:ILE:CB	2.25	0.66
1:6:157:LEU:HD22	1:6:205:GLN:CB	2.23	0.66
1:7:53:VAL:CG1	1:B:49:ARG:HB2	2.26	0.66
1:B:96:PRO:N	1:q:241:LEU:O	2.28	0.66
1:C:53:VAL:CG1	1:J:49:ARG:HB2	2.26	0.66
1:C:96:PRO:HB3	1:x:241:LEU:O	1.95	0.66
1:D:53:VAL:CG1	1:M:49:ARG:HB2	2.26	0.66
1:D:96:PRO:CB	1:Y:241:LEU:O	2.42	0.66
1:D:241:LEU:O	1:p:96:PRO:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:395:LYS:HE3	1:R:87:GLU:CD	2.18	0.66
1:G:85:MET:HG2	1:M:394:TYR:HD2	1.61	0.66
1:I:87:GLU:CD	1:Q:395:LYS:HE3	2.18	0.66
1:L:53:VAL:CG1	1:Z:49:ARG:HB2	2.26	0.66
1:T:394:TYR:HD2	1:U:85:MET:HG2	1.60	0.66
1:U:49:ARG:HB2	1:V:53:VAL:CG1	2.26	0.66
1:W:49:ARG:HB2	1:s:53:VAL:CG1	2.26	0.66
1:W:241:LEU:O	1:f:96:PRO:CB	2.42	0.66
1:X:49:ARG:HB2	1:e:53:VAL:CG1	2.26	0.66
1:Y:73:GLN:CB	1:k:236:ILE:HD11	2.23	0.66
1:Y:96:PRO:N	1:k:241:LEU:O	2.27	0.66
1:k:96:PRO:HB3	1:v:241:LEU:O	1.95	0.66
1:q:53:VAL:CG1	1:s:49:ARG:HB2	2.26	0.66
1:r:49:ARG:HB2	1:t:53:VAL:CG1	2.26	0.66
1:l:49:ARG:HB2	1:z:53:VAL:CG1	2.26	0.66
1:l:52:ILE:CG1	1:z:52:ILE:CG2	2.73	0.66
1:l:127:THR:HG23	1:u:551:THR:CA	2.21	0.66
1:3:49:ARG:HB2	1:X:53:VAL:CG1	2.26	0.66
1:5:49:ARG:HB2	1:E:53:VAL:CG1	2.26	0.66
1:5:53:VAL:CG1	1:v:49:ARG:HB2	2.26	0.66
1:5:552:ILE:CB	1:F:127:THR:HA	2.25	0.66
1:A:96:PRO:N	1:U:241:LEU:O	2.28	0.66
1:B:127:THR:HA	1:s:552:ILE:CB	2.25	0.66
1:C:241:LEU:O	1:L:96:PRO:HB3	1.95	0.66
1:E:241:LEU:O	1:F:96:PRO:HB3	1.95	0.66
1:E:394:TYR:HD2	1:F:85:MET:HG2	1.60	0.66
1:E:551:THR:CA	1:k:127:THR:HG23	2.21	0.66
1:F:53:VAL:CG1	1:y:49:ARG:HB2	2.26	0.66
1:G:241:LEU:O	1:a:96:PRO:HB3	1.95	0.66
1:H:49:ARG:HB2	1:m:53:VAL:CG1	2.26	0.66
1:K:236:ILE:HD11	1:r:73:GLN:CB	2.23	0.66
1:M:96:PRO:N	1:f:241:LEU:O	2.27	0.66
1:N:96:PRO:N	1:i:241:LEU:O	2.27	0.66
1:N:241:LEU:O	1:l:96:PRO:CB	2.42	0.66
1:P:103:ILE:HG12	1:P:225:ARG:HG2	1.75	0.66
1:S:96:PRO:CB	1:m:241:LEU:O	2.42	0.66
1:V:49:ARG:HB2	1:Y:53:VAL:CG1	2.26	0.66
1:W:73:GLN:CB	1:a:236:ILE:HD11	2.23	0.66
1:W:241:LEU:O	1:f:96:PRO:N	2.28	0.66
1:X:127:THR:HA	1:t:552:ILE:CB	2.25	0.66
1:i:96:PRO:CB	1:y:241:LEU:O	2.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:96:PRO:N	1:y:241:LEU:O	2.27	0.66
1:m:127:THR:HA	1:z:552:ILE:CB	2.25	0.66
1:q:52:ILE:CG2	1:s:52:ILE:CG1	2.73	0.66
1:r:52:ILE:CG1	1:t:52:ILE:CG2	2.73	0.66
1:0:96:PRO:HB3	1:V:241:LEU:O	1.95	0.66
1:0:127:THR:HA	1:U:552:ILE:CB	2.25	0.66
1:3:127:THR:HA	1:x:552:ILE:CB	2.25	0.66
1:4:73:GLN:CB	1:h:236:ILE:HD11	2.23	0.66
1:4:87:GLU:CD	1:h:395:LYS:HE3	2.18	0.66
1:5:96:PRO:CB	1:n:241:LEU:O	2.42	0.66
1:6:53:VAL:CG1	1:T:49:ARG:HB2	2.26	0.66
1:7:394:TYR:HD2	1:s:85:MET:HG2	1.60	0.66
1:B:96:PRO:HB3	1:q:241:LEU:O	1.95	0.66
1:B:241:LEU:O	1:n:96:PRO:N	2.27	0.66
1:G:49:ARG:HB2	1:J:53:VAL:CG1	2.26	0.66
1:K:49:ARG:HB2	1:o:53:VAL:CG1	2.26	0.66
1:L:395:LYS:HE3	1:w:87:GLU:CD	2.18	0.66
1:O:103:ILE:HG12	1:O:225:ARG:HG2	1.75	0.66
1:U:52:ILE:CG1	1:V:52:ILE:CG2	2.73	0.66
1:W:53:VAL:CG1	1:q:49:ARG:HB2	2.26	0.66
1:X:551:THR:CA	1:t:127:THR:HG23	2.21	0.66
1:2:96:PRO:N	1:6:241:LEU:O	2.27	0.66
1:3:52:ILE:CG2	1:e:52:ILE:CG1	2.73	0.66
1:5:127:THR:HG23	1:F:551:THR:CA	2.21	0.66
1:7:49:ARG:HB2	1:i:53:VAL:CG1	2.26	0.66
1:7:125:THR:HG1	1:N:549:MET:HE2	1.61	0.66
1:C:394:TYR:HD2	1:L:85:MET:HG2	1.60	0.66
1:E:96:PRO:HB3	1:S:241:LEU:O	1.95	0.66
1:G:127:THR:HA	1:j:552:ILE:CB	2.25	0.66
1:H:127:THR:HA	1:S:552:ILE:CB	2.25	0.66
1:J:96:PRO:CB	1:c:241:LEU:O	2.42	0.66
1:J:96:PRO:HB3	1:c:241:LEU:O	1.95	0.66
1:J:127:THR:HG23	1:L:551:THR:CA	2.21	0.66
1:Q:53:VAL:CG1	1:l:49:ARG:HB2	2.26	0.66
1:Z:53:VAL:CG1	1:c:49:ARG:HB2	2.26	0.66
1:b:96:PRO:N	1:s:241:LEU:O	2.28	0.66
1:d:552:ILE:CB	1:v:127:THR:HA	2.25	0.66
1:g:73:GLN:CB	1:t:236:ILE:HD11	2.23	0.66
1:g:85:MET:HG2	1:t:394:TYR:HD2	1.60	0.66
1:u:73:GLN:CB	1:z:236:ILE:HD11	2.23	0.66
1:0:236:ILE:HD11	1:c:73:GLN:CB	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:85:MET:HG2	1:b:394:TYR:HD2	1.60	0.66
1:4:52:ILE:CG1	1:H:52:ILE:CG2	2.73	0.66
1:6:552:ILE:CB	1:c:127:THR:HA	2.25	0.66
1:B:236:ILE:HD11	1:n:73:GLN:CB	2.23	0.66
1:B:395:LYS:HE3	1:n:87:GLU:CD	2.18	0.66
1:C:52:ILE:CG1	1:G:52:ILE:CG2	2.73	0.66
1:C:125:THR:HG1	1:a:549:MET:HE2	1.61	0.66
1:D:127:THR:HG23	1:V:551:THR:CA	2.21	0.66
1:G:241:LEU:O	1:a:96:PRO:N	2.28	0.66
1:P:127:THR:HA	1:e:552:ILE:CB	2.25	0.66
1:Q:127:THR:HG23	1:o:551:THR:CA	2.21	0.66
1:Q:551:THR:CA	1:o:127:THR:HG23	2.21	0.66
1:X:127:THR:HG23	1:t:551:THR:CA	2.21	0.66
1:d:127:THR:HG23	1:v:551:THR:CA	2.21	0.66
1:m:127:THR:HG23	1:z:551:THR:CA	2.21	0.66
1:n:49:ARG:HB2	1:y:53:VAL:CG1	2.26	0.66
1:u:85:MET:HG2	1:z:394:TYR:HD2	1.60	0.66
1:2:96:PRO:HB3	1:6:241:LEU:O	1.95	0.66
1:3:126:ASN:OD1	1:x:551:THR:HB	1.96	0.66
1:C:561:TYR:HD1	1:x:157:LEU:CD2	2.08	0.66
1:E:52:ILE:CG1	1:v:52:ILE:CG2	2.73	0.66
1:F:241:LEU:O	1:R:96:PRO:N	2.27	0.66
1:G:551:THR:CA	1:j:127:THR:HG23	2.21	0.66
1:H:126:ASN:OD1	1:S:551:THR:HB	1.96	0.66
1:I:549:MET:HE2	1:l:125:THR:HG1	1.60	0.66
1:O:236:ILE:HD11	1:T:73:GLN:CB	2.23	0.66
1:Q:52:ILE:CG2	1:l:52:ILE:CG1	2.73	0.66
1:d:49:ARG:HB2	1:p:53:VAL:CG1	2.26	0.66
1:f:52:ILE:CG2	1:p:52:ILE:CG1	2.73	0.66
1:f:127:THR:HG23	1:q:551:THR:CA	2.21	0.66
1:i:552:ILE:CB	1:n:127:THR:HA	2.25	0.66
1:0:126:ASN:OD1	1:U:551:THR:HB	1.97	0.65
1:0:395:LYS:HE3	1:c:87:GLU:CD	2.18	0.65
1:2:126:ASN:OD1	1:T:551:THR:HB	1.96	0.65
1:4:552:ILE:CB	1:O:127:THR:HA	2.25	0.65
1:5:96:PRO:HB3	1:n:241:LEU:O	1.95	0.65
1:5:394:TYR:HD2	1:d:85:MET:HG2	1.60	0.65
1:7:73:GLN:CB	1:P:236:ILE:HD11	2.23	0.65
1:A:53:VAL:CG1	1:S:49:ARG:HB2	2.26	0.65
1:A:394:TYR:HD2	1:H:85:MET:HG2	1.60	0.65
1:A:551:THR:HB	1:Y:126:ASN:OD1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:ARG:HB2	1:G:53:VAL:CG1	2.26	0.65
1:C:551:THR:HB	1:a:126:ASN:OD1	1.96	0.65
1:D:52:ILE:CG2	1:M:52:ILE:CG1	2.73	0.65
1:E:49:ARG:HB2	1:v:53:VAL:CG1	2.26	0.65
1:E:551:THR:HB	1:k:126:ASN:OD1	1.96	0.65
1:F:157:LEU:CD2	1:R:561:TYR:HD1	2.08	0.65
1:I:53:VAL:CG1	1:P:49:ARG:HB2	2.26	0.65
1:K:52:ILE:CG1	1:o:52:ILE:CG2	2.73	0.65
1:K:125:THR:HG1	1:h:549:MET:HE2	1.60	0.65
1:L:157:LEU:CD2	1:w:561:TYR:HD1	2.08	0.65
1:M:53:VAL:CG1	1:j:49:ARG:HB2	2.26	0.65
1:O:49:ARG:HB2	1:h:53:VAL:CG1	2.26	0.65
1:P:551:THR:HB	1:e:126:ASN:OD1	1.96	0.65
1:Q:49:ARG:HB2	1:u:53:VAL:CG1	2.26	0.65
1:Q:126:ASN:OD1	1:o:551:THR:HB	1.96	0.65
1:Q:551:THR:HB	1:o:126:ASN:OD1	1.96	0.65
1:W:126:ASN:OD1	1:b:551:THR:HB	1.97	0.65
1:a:52:ILE:CG2	1:b:52:ILE:CG1	2.73	0.65
1:f:125:THR:HG1	1:q:549:MET:HE2	1.61	0.65
1:k:96:PRO:N	1:v:241:LEU:O	2.28	0.65
1:l:53:VAL:CG1	1:u:49:ARG:HB2	2.26	0.65
1:1:212:PHE:CE2	1:u:560:THR:CB	2.80	0.65
1:4:126:ASN:OD1	1:O:551:THR:HB	1.96	0.65
1:4:551:THR:HB	1:O:126:ASN:OD1	1.97	0.65
1:7:52:ILE:CG2	1:B:52:ILE:CG1	2.73	0.65
1:7:551:THR:HB	1:N:126:ASN:OD1	1.97	0.65
1:A:126:ASN:OD1	1:Y:551:THR:HB	1.97	0.65
1:B:126:ASN:OD1	1:s:551:THR:HB	1.97	0.65
1:D:73:GLN:CB	1:Y:236:ILE:HD11	2.23	0.65
1:D:213:GLN:HB3	1:V:554:ASN:HB3	1.79	0.65
1:D:551:THR:HB	1:V:126:ASN:OD1	1.97	0.65
1:E:561:TYR:HD1	1:S:157:LEU:CD2	2.08	0.65
1:K:53:VAL:CG1	1:g:49:ARG:HB2	2.26	0.65
1:L:241:LEU:O	1:w:96:PRO:N	2.27	0.65
1:N:96:PRO:HB3	1:i:241:LEU:O	1.95	0.65
1:P:126:ASN:OD1	1:e:551:THR:HB	1.97	0.65
1:R:236:ILE:HD11	1:m:73:GLN:CB	2.23	0.65
1:S:53:VAL:CG1	1:k:49:ARG:HB2	2.26	0.65
1:W:87:GLU:CD	1:a:395:LYS:HE3	2.18	0.65
1:a:49:ARG:HB2	1:x:53:VAL:CG1	2.26	0.65
1:b:53:VAL:CG1	1:x:49:ARG:HB2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:213:GLN:HB3	1:q:554:ASN:HB3	1.79	0.65
1:f:551:THR:HB	1:q:126:ASN:OD1	1.97	0.65
1:g:560:THR:CB	1:r:212:PHE:CE2	2.80	0.65
1:0:552:ILE:CB	1:U:127:THR:HA	2.25	0.65
1:2:125:THR:HG1	1:T:549:MET:HE2	1.60	0.65
1:6:551:THR:HB	1:c:126:ASN:OD1	1.96	0.65
1:6:560:THR:CB	1:c:212:PHE:CE2	2.80	0.65
1:7:551:THR:CA	1:N:127:THR:HG23	2.21	0.65
1:A:52:ILE:CG1	1:k:52:ILE:CG2	2.73	0.65
1:R:551:THR:HB	1:y:126:ASN:OD1	1.97	0.65
1:W:551:THR:HB	1:b:126:ASN:OD1	1.97	0.65
1:Z:126:ASN:OD1	1:w:551:THR:HB	1.97	0.65
1:a:53:VAL:CG1	1:b:49:ARG:HB2	2.26	0.65
1:g:53:VAL:CG1	1:o:49:ARG:HB2	2.26	0.65
1:g:549:MET:HE2	1:r:125:THR:HG1	1.60	0.65
1:i:551:THR:HB	1:n:126:ASN:OD1	1.97	0.65
1:i:560:THR:CB	1:n:212:PHE:CE2	2.80	0.65
1:t:49:ARG:HB2	1:w:53:VAL:CG1	2.26	0.65
1:1:157:LEU:CD2	1:y:561:TYR:HD1	2.08	0.65
1:1:554:ASN:HB3	1:u:213:GLN:HB3	1.79	0.65
1:3:551:THR:HB	1:x:126:ASN:OD1	1.96	0.65
1:A:49:ARG:HB2	1:k:53:VAL:CG1	2.26	0.65
1:E:554:ASN:HB3	1:k:213:GLN:HB3	1.79	0.65
1:G:551:THR:HB	1:j:126:ASN:OD1	1.97	0.65
1:G:554:ASN:HB3	1:j:213:GLN:HB3	1.79	0.65
1:H:551:THR:HB	1:S:126:ASN:OD1	1.96	0.65
1:J:394:TYR:HD2	1:j:85:MET:HG2	1.61	0.65
1:K:560:THR:CB	1:h:212:PHE:CE2	2.80	0.65
1:Q:212:PHE:CE2	1:o:560:THR:CB	2.80	0.65
1:Q:560:THR:CB	1:o:212:PHE:CE2	2.80	0.65
1:R:53:VAL:CG1	1:z:49:ARG:HB2	2.26	0.65
1:W:236:ILE:HD11	1:f:73:GLN:CB	2.23	0.65
1:Y:87:GLU:CD	1:k:395:LYS:HE3	2.18	0.65
1:d:126:ASN:OD1	1:v:551:THR:HB	1.96	0.65
1:i:126:ASN:OD1	1:n:551:THR:HB	1.96	0.65
1:0:52:ILE:CG1	1:T:52:ILE:CG2	2.73	0.65
1:4:549:MET:HE2	1:O:125:THR:HG1	1.60	0.65
1:4:554:ASN:HB3	1:O:213:GLN:HB3	1.79	0.65
1:5:560:THR:CB	1:F:212:PHE:CE2	2.80	0.65
1:6:126:ASN:OD1	1:c:551:THR:HB	1.97	0.65
1:A:552:ILE:CB	1:Y:127:THR:HA	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:552:ILE:CB	1:s:127:THR:HA	2.25	0.65
1:C:554:ASN:HB3	1:a:213:GLN:HB3	1.79	0.65
1:J:560:THR:CB	1:L:212:PHE:CE2	2.80	0.65
1:K:549:MET:HE2	1:h:125:THR:HG1	1.61	0.65
1:M:213:GLN:HB3	1:p:554:ASN:HB3	1.79	0.65
1:P:213:GLN:HB3	1:e:554:ASN:HB3	1.79	0.65
1:V:85:MET:HG2	1:j:394:TYR:HD2	1.60	0.65
1:W:560:THR:CB	1:b:212:PHE:CE2	2.80	0.65
1:X:73:GLN:CB	1:w:236:ILE:HD11	2.23	0.65
1:Z:551:THR:HB	1:w:126:ASN:OD1	1.97	0.65
1:d:213:GLN:HB3	1:v:554:ASN:HB3	1.79	0.65
1:g:213:GLN:HB3	1:r:554:ASN:HB3	1.79	0.65
1:l:551:THR:CA	1:u:127:THR:HG23	2.21	0.65
1:2:127:THR:HG23	1:T:551:THR:CA	2.21	0.65
1:4:85:MET:HG2	1:h:394:TYR:HD2	1.60	0.65
1:4:212:PHE:CE2	1:O:560:THR:CB	2.80	0.65
1:4:394:TYR:HD2	1:z:85:MET:HG2	1.60	0.65
1:A:212:PHE:CE2	1:Y:560:THR:CB	2.80	0.65
1:B:87:GLU:CD	1:q:395:LYS:HE3	2.18	0.65
1:C:560:THR:CB	1:a:212:PHE:CE2	2.80	0.65
1:E:125:THR:HG1	1:k:549:MET:HE2	1.62	0.65
1:I:125:THR:HG1	1:l:549:MET:HE2	1.61	0.65
1:M:554:ASN:HB3	1:p:213:GLN:HB3	1.79	0.65
1:R:126:ASN:OD1	1:y:551:THR:HB	1.97	0.65
1:Y:561:TYR:HD1	1:k:157:LEU:CD2	2.08	0.65
1:d:394:TYR:HD2	1:q:85:MET:HG2	1.60	0.65
1:e:394:TYR:HD2	1:t:85:MET:HG2	1.60	0.65
1:l:551:THR:HB	1:u:126:ASN:OD1	1.97	0.65
1:3:212:PHE:CE2	1:x:560:THR:CB	2.80	0.65
1:D:394:TYR:HD2	1:p:85:MET:HG2	1.60	0.65
1:E:560:THR:CB	1:k:212:PHE:CE2	2.80	0.65
1:H:212:PHE:CE2	1:S:560:THR:CB	2.80	0.65
1:I:394:TYR:HD2	1:e:85:MET:HG2	1.61	0.65
1:J:551:THR:HB	1:L:126:ASN:OD1	1.96	0.65
1:K:126:ASN:OD1	1:h:551:THR:HB	1.96	0.65
1:P:560:THR:CB	1:e:212:PHE:CE2	2.80	0.65
1:R:213:GLN:HB3	1:y:554:ASN:HB3	1.79	0.65
1:W:127:THR:HA	1:b:552:ILE:CB	2.25	0.65
1:W:561:TYR:HD1	1:a:157:LEU:CD2	2.08	0.65
1:Z:554:ASN:HB3	1:w:213:GLN:HB3	1.79	0.65
1:Z:561:TYR:HD1	1:r:157:LEU:CD2	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:126:ASN:OD1	1:r:551:THR:HB	1.97	0.65
1:l:85:MET:HG2	1:l:394:TYR:HD2	1.60	0.65
1:2:213:GLN:HB3	1:T:554:ASN:HB3	1.79	0.65
1:5:551:THR:HB	1:F:126:ASN:OD1	1.96	0.65
1:7:554:ASN:HB3	1:N:213:GLN:HB3	1.79	0.65
1:C:549:MET:HE2	1:a:125:THR:HG1	1.61	0.65
1:F:49:ARG:HB2	1:n:53:VAL:CG1	2.26	0.65
1:G:157:LEU:CD2	1:a:561:TYR:HD1	2.09	0.65
1:H:213:GLN:HB3	1:S:554:ASN:HB3	1.79	0.65
1:I:126:ASN:OD1	1:l:551:THR:HB	1.97	0.65
1:I:551:THR:HB	1:l:126:ASN:OD1	1.97	0.65
1:I:552:ILE:CB	1:l:127:THR:HA	2.25	0.65
1:X:549:MET:HE2	1:t:125:THR:HG1	1.62	0.65
1:b:52:ILE:CG2	1:x:52:ILE:CG1	2.73	0.65
1:m:549:MET:HE2	1:z:125:THR:HG1	1.62	0.65
1:0:87:GLU:CD	1:V:395:LYS:HE3	2.18	0.65
1:0:213:GLN:HB3	1:U:554:ASN:HB3	1.79	0.65
1:1:213:GLN:HB3	1:u:554:ASN:HB3	1.79	0.65
1:2:549:MET:HE2	1:T:125:THR:HG1	1.62	0.65
1:3:213:GLN:HB3	1:x:554:ASN:HB3	1.79	0.65
1:I:213:GLN:HB3	1:l:554:ASN:HB3	1.79	0.65
1:K:52:ILE:CG2	1:g:52:ILE:CG1	2.73	0.65
1:K:127:THR:HA	1:h:552:ILE:CB	2.25	0.65
1:K:394:TYR:HD2	1:r:85:MET:HG2	1.60	0.65
1:K:551:THR:HB	1:h:126:ASN:OD1	1.97	0.65
1:P:551:THR:CA	1:e:127:THR:HG23	2.21	0.65
1:W:549:MET:HE2	1:b:125:THR:HG1	1.62	0.65
1:Z:85:MET:HG2	1:r:394:TYR:HD2	1.60	0.65
1:g:554:ASN:HB3	1:r:213:GLN:HB3	1.79	0.65
1:k:561:TYR:HD1	1:v:157:LEU:CD2	2.09	0.65
1:r:52:ILE:CG2	1:w:52:ILE:CG1	2.73	0.65
1:3:87:GLU:CD	1:b:395:LYS:HE3	2.18	0.65
1:4:127:THR:HG23	1:O:551:THR:CA	2.21	0.65
1:4:560:THR:CB	1:O:212:PHE:CE2	2.80	0.65
1:A:213:GLN:HB3	1:Y:554:ASN:HB3	1.79	0.65
1:A:395:LYS:HE3	1:H:87:GLU:CD	2.18	0.65
1:A:560:THR:CB	1:Y:212:PHE:CE2	2.80	0.65
1:B:213:GLN:HB3	1:s:554:ASN:HB3	1.79	0.65
1:B:560:THR:CB	1:s:212:PHE:CE2	2.80	0.65
1:D:560:THR:CB	1:V:212:PHE:CE2	2.80	0.65
1:I:73:GLN:CB	1:Q:236:ILE:HD11	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:554:ASN:HB3	1:h:213:GLN:HB3	1.79	0.65
1:L:49:ARG:HB2	1:c:53:VAL:CG1	2.26	0.65
1:L:236:ILE:HD11	1:w:73:GLN:CB	2.23	0.65
1:M:85:MET:HG2	1:f:394:TYR:HD2	1.60	0.65
1:W:554:ASN:HB3	1:b:213:GLN:HB3	1.79	0.65
1:f:551:THR:CA	1:q:127:THR:HG23	2.21	0.65
1:i:85:MET:HG2	1:y:394:TYR:HD2	1.60	0.65
1:l:52:ILE:CG2	1:u:52:ILE:CG1	2.73	0.65
1:O:560:THR:CB	1:U:212:PHE:CE2	2.80	0.64
1:1:52:ILE:CG2	1:R:52:ILE:CG1	2.73	0.64
1:3:52:ILE:CG1	1:X:52:ILE:CG2	2.73	0.64
1:5:213:GLN:HB3	1:F:554:ASN:HB3	1.79	0.64
1:6:85:MET:HG2	1:Z:394:TYR:HD2	1.60	0.64
1:A:52:ILE:CG2	1:S:52:ILE:CG1	2.73	0.64
1:D:126:ASN:OD1	1:V:551:THR:HB	1.97	0.64
1:F:394:TYR:HD2	1:R:85:MET:HG2	1.60	0.64
1:N:49:ARG:HB2	1:P:53:VAL:CG1	2.26	0.64
1:P:212:PHE:CE2	1:e:560:THR:CB	2.80	0.64
1:Q:554:ASN:HB3	1:o:213:GLN:HB3	1.79	0.64
1:W:212:PHE:CE2	1:b:560:THR:CB	2.80	0.64
1:d:551:THR:HB	1:v:126:ASN:OD1	1.96	0.64
1:f:560:THR:CB	1:q:212:PHE:CE2	2.80	0.64
1:g:127:THR:HG23	1:r:551:THR:CA	2.21	0.64
1:m:125:THR:HG1	1:z:549:MET:HE2	1.61	0.64
1:1:394:TYR:HD2	1:y:85:MET:HG2	1.60	0.64
1:2:49:ARG:HB2	1:O:53:VAL:CG1	2.26	0.64
1:2:212:PHE:CE2	1:T:560:THR:CB	2.80	0.64
1:2:554:ASN:HB3	1:T:213:GLN:HB3	1.79	0.64
1:5:85:MET:HG2	1:n:394:TYR:HD2	1.61	0.64
1:5:212:PHE:CE2	1:F:560:THR:CB	2.80	0.64
1:6:554:ASN:HB3	1:c:213:GLN:HB3	1.79	0.64
1:F:236:ILE:HD11	1:R:73:GLN:CB	2.23	0.64
1:F:239:ARG:HH21	1:R:73:GLN:NE2	1.93	0.64
1:G:212:PHE:CE2	1:j:560:THR:CB	2.80	0.64
1:H:52:ILE:CG1	1:m:52:ILE:CG2	2.73	0.64
1:I:560:THR:CB	1:l:212:PHE:CE2	2.80	0.64
1:J:126:ASN:OD1	1:L:551:THR:HB	1.97	0.64
1:K:212:PHE:CE2	1:h:560:THR:CB	2.80	0.64
1:P:125:THR:HG1	1:e:549:MET:HE2	1.61	0.64
1:Q:213:GLN:HB3	1:o:554:ASN:HB3	1.79	0.64
1:f:126:ASN:OD1	1:q:551:THR:HB	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:73:GLN:CB	1:o:236:ILE:HD11	2.23	0.64
1:1:126:ASN:OD1	1:u:551:THR:HB	1.97	0.64
1:5:126:ASN:OD1	1:F:551:THR:HB	1.97	0.64
1:7:560:THR:CB	1:N:212:PHE:CE2	2.80	0.64
1:C:126:ASN:OD1	1:a:551:THR:HB	1.97	0.64
1:G:126:ASN:OD1	1:j:551:THR:HB	1.97	0.64
1:G:560:THR:CB	1:j:212:PHE:CE2	2.80	0.64
1:J:212:PHE:CE2	1:L:560:THR:CB	2.80	0.64
1:J:213:GLN:HB3	1:L:554:ASN:HB3	1.79	0.64
1:M:126:ASN:OD1	1:p:551:THR:HB	1.96	0.64
1:X:551:THR:HB	1:t:126:ASN:OD1	1.97	0.64
1:d:212:PHE:CE2	1:v:560:THR:CB	2.80	0.64
1:d:560:THR:CB	1:v:212:PHE:CE2	2.80	0.64
1:g:212:PHE:CE2	1:r:560:THR:CB	2.80	0.64
1:i:554:ASN:HB3	1:n:213:GLN:HB3	1.79	0.64
1:1:560:THR:CB	1:u:212:PHE:CE2	2.80	0.64
1:4:213:GLN:HB3	1:O:554:ASN:HB3	1.79	0.64
1:7:213:GLN:HB3	1:N:554:ASN:HB3	1.79	0.64
1:D:551:THR:CA	1:V:127:THR:HG23	2.21	0.64
1:I:561:TYR:HD1	1:Q:157:LEU:CD2	2.08	0.64
1:J:85:MET:HG2	1:c:394:TYR:HD2	1.61	0.64
1:J:554:ASN:HB3	1:L:213:GLN:HB3	1.79	0.64
1:L:52:ILE:CG1	1:c:52:ILE:CG2	2.73	0.64
1:L:239:ARG:HH21	1:w:73:GLN:NE2	1.93	0.64
1:X:554:ASN:HB3	1:t:213:GLN:HB3	1.79	0.64
1:m:554:ASN:HB3	1:z:213:GLN:HB3	1.79	0.64
1:5:236:ILE:HD11	1:d:73:GLN:CB	2.23	0.64
1:A:125:THR:HG1	1:Y:549:MET:HE2	1.63	0.64
1:E:126:ASN:OD1	1:k:551:THR:HB	1.97	0.64
1:F:52:ILE:CG1	1:n:52:ILE:CG2	2.73	0.64
1:J:236:ILE:HD11	1:j:73:GLN:CB	2.23	0.64
1:M:551:THR:HB	1:p:126:ASN:OD1	1.96	0.64
1:X:126:ASN:OD1	1:t:551:THR:HB	1.97	0.64
1:g:551:THR:HB	1:r:126:ASN:OD1	1.97	0.64
1:m:126:ASN:OD1	1:z:551:THR:HB	1.97	0.64
1:m:551:THR:HB	1:z:126:ASN:OD1	1.97	0.64
1:0:561:TYR:HD1	1:V:157:LEU:CD2	2.08	0.64
1:5:554:ASN:HB3	1:F:213:GLN:HB3	1.79	0.64
1:7:157:LEU:CD2	1:s:561:TYR:HD1	2.08	0.64
1:D:212:PHE:CE2	1:V:560:THR:CB	2.80	0.64
1:E:549:MET:HE2	1:k:125:THR:HG1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:52:ILE:CG2	1:j:52:ILE:CG1	2.73	0.64
1:P:554:ASN:HB3	1:e:213:GLN:HB3	1.79	0.64
1:W:52:ILE:CG1	1:s:52:ILE:CG2	2.73	0.64
1:f:554:ASN:HB3	1:q:213:GLN:HB3	1.79	0.64
1:o:85:MET:HG2	1:u:394:TYR:HD2	1.60	0.64
1:C:85:MET:HG2	1:x:394:TYR:HD2	1.61	0.64
1:N:85:MET:HG2	1:i:394:TYR:HD2	1.61	0.64
1:Z:551:THR:CA	1:w:127:THR:HG23	2.21	0.64
1:d:52:ILE:CG1	1:p:52:ILE:CG2	2.73	0.64
1:f:212:PHE:CE2	1:q:560:THR:CB	2.80	0.64
1:h:561:TYR:HD1	1:o:157:LEU:CD2	2.08	0.64
1:0:554:ASN:HB3	1:U:213:GLN:HB3	1.79	0.64
1:2:560:THR:CB	1:T:212:PHE:CE2	2.80	0.64
1:7:212:PHE:CE2	1:N:560:THR:CB	2.80	0.64
1:B:554:ASN:HB3	1:s:213:GLN:HB3	1.79	0.64
1:D:554:ASN:HB3	1:V:213:GLN:HB3	1.79	0.64
1:M:127:THR:HG23	1:p:551:THR:CA	2.21	0.64
1:M:551:THR:CA	1:p:127:THR:HG23	2.21	0.64
1:R:239:ARG:HH21	1:m:73:GLN:NE2	1.92	0.64
1:U:52:ILE:CG2	1:Y:52:ILE:CG1	2.73	0.64
1:W:213:GLN:HB3	1:b:554:ASN:HB3	1.79	0.64
1:d:554:ASN:HB3	1:v:213:GLN:HB3	1.79	0.64
1:m:560:THR:CB	1:z:212:PHE:CE2	2.80	0.64
1:0:551:THR:HB	1:U:126:ASN:OD1	1.97	0.64
1:1:125:THR:HG1	1:u:549:MET:HE2	1.63	0.64
1:2:85:MET:HG2	1:6:394:TYR:HD2	1.61	0.64
1:2:551:THR:HB	1:T:126:ASN:OD1	1.96	0.64
1:6:73:GLN:CB	1:Z:236:ILE:HD11	2.23	0.64
1:A:554:ASN:HB3	1:Y:213:GLN:HB3	1.79	0.64
1:B:551:THR:HB	1:s:126:ASN:OD1	1.97	0.64
1:B:561:TYR:HD1	1:q:157:LEU:CD2	2.08	0.64
1:E:85:MET:HG2	1:S:394:TYR:HD2	1.61	0.64
1:G:125:THR:HG1	1:j:549:MET:HE2	1.60	0.64
1:G:157:LEU:HG	1:a:561:TYR:CD1	2.33	0.64
1:I:554:ASN:HB3	1:l:213:GLN:HB3	1.79	0.64
1:M:73:GLN:CB	1:f:236:ILE:HD11	2.23	0.64
1:N:52:ILE:CG1	1:P:52:ILE:CG2	2.73	0.64
1:Q:85:MET:HG2	1:g:394:TYR:HD2	1.60	0.64
1:T:157:LEU:CD2	1:U:561:TYR:HD1	2.08	0.64
1:X:560:THR:CB	1:t:212:PHE:CE2	2.80	0.64
1:i:73:GLN:CB	1:y:236:ILE:HD11	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:561:TYR:CD1	1:v:157:LEU:HG	2.33	0.64
1:t:52:ILE:CG1	1:w:52:ILE:CG2	2.73	0.64
1:3:554:ASN:HB3	1:x:213:GLN:HB3	1.79	0.64
1:5:52:ILE:CG2	1:v:52:ILE:CG1	2.73	0.64
1:6:213:GLN:HB3	1:c:554:ASN:HB3	1.79	0.64
1:D:236:ILE:HD11	1:p:73:GLN:CB	2.23	0.64
1:E:561:TYR:CD1	1:S:157:LEU:HG	2.33	0.64
1:G:213:GLN:HB3	1:j:554:ASN:HB3	1.79	0.64
1:H:554:ASN:HB3	1:S:213:GLN:HB3	1.79	0.64
1:K:213:GLN:HB3	1:h:554:ASN:HB3	1.79	0.64
1:R:554:ASN:HB3	1:y:213:GLN:HB3	1.79	0.64
1:R:560:THR:CB	1:y:212:PHE:CE2	2.80	0.64
1:i:213:GLN:HB3	1:n:554:ASN:HB3	1.79	0.64
1:5:561:TYR:CD1	1:n:157:LEU:HG	2.33	0.63
1:C:157:LEU:HG	1:L:561:TYR:CD1	2.33	0.63
1:C:561:TYR:CD1	1:x:157:LEU:HG	2.33	0.63
1:E:157:LEU:HG	1:F:561:TYR:CD1	2.33	0.63
1:G:52:ILE:CG1	1:J:52:ILE:CG2	2.73	0.63
1:G:394:TYR:HD2	1:a:85:MET:HG2	1.60	0.63
1:H:560:THR:CB	1:S:212:PHE:CE2	2.80	0.63
1:P:549:MET:HE2	1:e:125:THR:HG1	1.61	0.63
1:R:127:THR:HG23	1:y:551:THR:CA	2.21	0.63
1:R:157:LEU:HG	1:m:561:TYR:CD1	2.33	0.63
1:T:157:LEU:HG	1:U:561:TYR:CD1	2.34	0.63
1:X:85:MET:HG2	1:w:394:TYR:HD2	1.60	0.63
1:X:561:TYR:CD1	1:w:157:LEU:HG	2.33	0.63
1:Z:213:GLN:HB3	1:w:554:ASN:HB3	1.79	0.63
1:i:561:TYR:HD1	1:y:157:LEU:CD2	2.08	0.63
1:2:52:ILE:CG1	1:O:52:ILE:CG2	2.73	0.63
1:2:157:LEU:CD2	1:K:561:TYR:HD1	2.09	0.63
1:3:560:THR:CB	1:x:212:PHE:CE2	2.80	0.63
1:3:561:TYR:CD1	1:b:157:LEU:HG	2.33	0.63
1:7:126:ASN:OD1	1:N:551:THR:HB	1.97	0.63
1:7:157:LEU:HG	1:s:561:TYR:CD1	2.33	0.63
1:7:552:ILE:N	1:N:127:THR:HG22	2.14	0.63
1:E:73:GLN:CB	1:S:236:ILE:HD11	2.23	0.63
1:G:73:GLN:CB	1:M:236:ILE:HD11	2.23	0.63
1:I:157:LEU:HG	1:e:561:TYR:CD1	2.33	0.63
1:I:561:TYR:CD1	1:Q:157:LEU:HG	2.33	0.63
1:J:561:TYR:CD1	1:c:157:LEU:HG	2.33	0.63
1:M:212:PHE:CE2	1:p:560:THR:CB	2.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:52:ILE:CG2	1:z:52:ILE:CG1	2.73	0.63
1:R:551:THR:CA	1:y:127:THR:HG23	2.21	0.63
1:W:125:THR:HG1	1:b:549:MET:HE2	1.60	0.63
1:X:52:ILE:CG1	1:e:52:ILE:CG2	2.73	0.63
1:X:73:GLN:NE2	1:w:239:ARG:HH21	1.93	0.63
1:Z:212:PHE:CE2	1:w:560:THR:CB	2.80	0.63
1:h:561:TYR:CD1	1:o:157:LEU:HG	2.33	0.63
1:i:127:THR:HG23	1:n:551:THR:CA	2.21	0.63
1:0:552:ILE:N	1:U:127:THR:HG22	2.14	0.63
1:2:127:THR:HG22	1:T:552:ILE:N	2.14	0.63
1:2:157:LEU:HG	1:K:561:TYR:CD1	2.33	0.63
1:3:561:TYR:HD1	1:b:157:LEU:CD2	2.09	0.63
1:4:561:TYR:CD1	1:h:157:LEU:HG	2.33	0.63
1:5:127:THR:HG22	1:F:552:ILE:N	2.14	0.63
1:A:157:LEU:CD2	1:H:561:TYR:HD1	2.09	0.63
1:A:157:LEU:HG	1:H:561:TYR:CD1	2.33	0.63
1:B:552:ILE:N	1:s:127:THR:HG22	2.14	0.63
1:J:127:THR:HG22	1:L:552:ILE:N	2.14	0.63
1:K:552:ILE:N	1:h:127:THR:HG22	2.14	0.63
1:M:560:THR:CB	1:p:212:PHE:CE2	2.80	0.63
1:W:561:TYR:CD1	1:a:157:LEU:HG	2.34	0.63
1:X:212:PHE:CE2	1:t:560:THR:CB	2.80	0.63
1:Y:561:TYR:CD1	1:k:157:LEU:HG	2.34	0.63
1:Z:561:TYR:CD1	1:r:157:LEU:HG	2.33	0.63
1:a:52:ILE:CG1	1:x:52:ILE:CG2	2.73	0.63
1:g:561:TYR:CD1	1:t:157:LEU:HG	2.33	0.63
1:m:212:PHE:CE2	1:z:560:THR:CB	2.80	0.63
1:p:236:ILE:HD11	1:v:73:GLN:CB	2.23	0.63
1:1:236:ILE:HD11	1:y:73:GLN:CB	2.23	0.63
1:4:52:ILE:CG2	1:m:52:ILE:CG1	2.73	0.63
1:4:125:THR:HG1	1:O:549:MET:HE2	1.60	0.63
1:6:127:THR:HG22	1:c:552:ILE:N	2.14	0.63
1:6:561:TYR:CD1	1:Z:157:LEU:HG	2.33	0.63
1:6:561:TYR:HD1	1:Z:157:LEU:CD2	2.09	0.63
1:I:127:THR:HG22	1:l:552:ILE:N	2.14	0.63
1:N:157:LEU:HG	1:l:561:TYR:CD1	2.33	0.63
1:Q:561:TYR:CD1	1:g:157:LEU:HG	2.33	0.63
1:R:394:TYR:HD2	1:m:85:MET:HG2	1.60	0.63
1:S:52:ILE:CG2	1:k:52:ILE:CG1	2.73	0.63
1:i:561:TYR:CD1	1:y:157:LEU:HG	2.33	0.63
1:u:561:TYR:CD1	1:z:157:LEU:HG	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:561:TYR:CD1	1:l:157:LEU:HG	2.34	0.63
1:A:127:THR:HG22	1:Y:552:ILE:N	2.14	0.63
1:A:549:MET:HE2	1:Y:125:THR:HG1	1.60	0.63
1:C:52:ILE:CG2	1:J:52:ILE:CG1	2.73	0.63
1:D:552:ILE:N	1:V:127:THR:HG22	2.14	0.63
1:E:552:ILE:HG12	1:k:127:THR:HB	1.63	0.63
1:K:157:LEU:HG	1:r:561:TYR:CD1	2.34	0.63
1:O:157:LEU:HG	1:T:561:TYR:CD1	2.33	0.63
1:W:552:ILE:N	1:b:127:THR:HG22	2.14	0.63
1:Z:73:GLN:CB	1:r:236:ILE:HD11	2.23	0.63
1:b:561:TYR:CD1	1:s:157:LEU:HG	2.33	0.63
1:i:127:THR:HG22	1:n:552:ILE:N	2.14	0.63
1:k:85:MET:HG2	1:v:394:TYR:HD2	1.60	0.63
1:o:561:TYR:CD1	1:u:157:LEU:HG	2.33	0.63
1:l:127:THR:HG22	1:u:552:ILE:N	2.14	0.63
1:l:157:LEU:HG	1:y:561:TYR:CD1	2.33	0.63
1:3:394:TYR:HD2	1:P:85:MET:HG2	1.61	0.63
1:A:561:TYR:CD1	1:U:157:LEU:HG	2.33	0.63
1:C:73:GLN:CB	1:x:236:ILE:HD11	2.23	0.63
1:C:212:PHE:CE2	1:a:560:THR:CB	2.80	0.63
1:E:212:PHE:CE2	1:k:560:THR:CB	2.80	0.63
1:H:236:ILE:HD11	1:O:73:GLN:CB	2.23	0.63
1:N:157:LEU:CD2	1:l:561:TYR:HD1	2.09	0.63
1:Q:561:TYR:HD1	1:g:157:LEU:CD2	2.09	0.63
1:W:52:ILE:CG2	1:q:52:ILE:CG1	2.73	0.63
1:Z:127:THR:HG22	1:w:552:ILE:N	2.14	0.63
1:Z:127:THR:HG23	1:w:551:THR:CA	2.21	0.63
1:m:213:GLN:HB3	1:z:554:ASN:HB3	1.79	0.63
1:0:561:TYR:CD1	1:V:157:LEU:HG	2.33	0.63
1:6:127:THR:HG23	1:c:551:THR:CA	2.21	0.63
1:7:561:TYR:CD1	1:P:157:LEU:HG	2.33	0.63
1:B:239:ARG:HH21	1:n:73:GLN:NE2	1.93	0.63
1:C:213:GLN:HB3	1:a:554:ASN:HB3	1.79	0.63
1:H:127:THR:HG22	1:S:552:ILE:N	2.14	0.63
1:J:157:LEU:HG	1:j:561:TYR:CD1	2.33	0.63
1:Q:127:THR:HG22	1:o:552:ILE:N	2.14	0.63
1:R:212:PHE:CE2	1:y:560:THR:CB	2.80	0.63
1:S:561:TYR:CD1	1:m:157:LEU:HG	2.33	0.63
1:V:52:ILE:CG1	1:Y:52:ILE:CG2	2.73	0.63
1:X:157:LEU:HG	1:x:561:TYR:CD1	2.33	0.63
1:Z:560:THR:CB	1:w:212:PHE:CE2	2.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:552:ILE:N	1:q:127:THR:HG22	2.14	0.63
1:g:127:THR:HG22	1:r:552:ILE:N	2.14	0.63
1:g:552:ILE:N	1:r:127:THR:HG22	2.14	0.63
1:l:561:TYR:HD1	1:l:157:LEU:CD2	2.08	0.63
1:3:127:THR:HG22	1:x:552:ILE:N	2.14	0.63
1:3:236:ILE:HD11	1:P:73:GLN:CB	2.23	0.63
1:5:52:ILE:CG1	1:E:52:ILE:CG2	2.73	0.63
1:5:157:LEU:HG	1:d:561:TYR:CD1	2.33	0.63
1:E:213:GLN:HB3	1:k:554:ASN:HB3	1.79	0.63
1:H:394:TYR:HD2	1:O:85:MET:HG2	1.61	0.63
1:Q:552:ILE:N	1:o:127:THR:HG22	2.14	0.63
1:R:552:ILE:N	1:y:127:THR:HG22	2.14	0.63
1:0:127:THR:HG22	1:U:552:ILE:N	2.14	0.63
1:0:239:ARG:HH21	1:c:73:GLN:NE2	1.93	0.63
1:l:552:ILE:N	1:u:127:THR:HG22	2.14	0.63
1:2:561:TYR:HD1	1:6:157:LEU:CD2	2.08	0.63
1:4:157:LEU:CD2	1:z:561:TYR:HD1	2.08	0.63
1:4:236:ILE:HD11	1:z:73:GLN:CB	2.23	0.63
1:6:549:MET:HE2	1:c:125:THR:HG1	1.61	0.63
1:7:236:ILE:HD11	1:s:73:GLN:CB	2.23	0.63
1:B:561:TYR:CD1	1:q:157:LEU:HG	2.33	0.63
1:C:552:ILE:N	1:a:127:THR:HG22	2.14	0.63
1:E:236:ILE:HD11	1:F:73:GLN:CB	2.23	0.63
1:G:552:ILE:N	1:j:127:THR:HG22	2.14	0.63
1:J:552:ILE:N	1:L:127:THR:HG22	2.14	0.63
1:K:157:LEU:CD2	1:r:561:TYR:HD1	2.08	0.63
1:L:394:TYR:HD2	1:w:85:MET:HG2	1.60	0.63
1:X:213:GLN:HB3	1:t:554:ASN:HB3	1.79	0.63
1:e:236:ILE:HD11	1:t:73:GLN:CB	2.23	0.63
1:o:561:TYR:HD1	1:u:157:LEU:CD2	2.09	0.63
1:0:212:PHE:CE2	1:U:560:THR:CB	2.80	0.62
1:2:73:GLN:CB	1:6:236:ILE:HD11	2.23	0.62
1:4:127:THR:HG22	1:O:552:ILE:N	2.14	0.62
1:5:552:ILE:N	1:F:127:THR:HG22	2.14	0.62
1:C:127:THR:HG22	1:a:552:ILE:N	2.14	0.62
1:E:552:ILE:N	1:k:127:THR:HG22	2.14	0.62
1:G:561:TYR:CD1	1:M:157:LEU:HG	2.33	0.62
1:L:157:LEU:HG	1:w:561:TYR:CD1	2.34	0.62
1:R:549:MET:HE2	1:y:125:THR:HG1	1.61	0.62
1:T:236:ILE:HD11	1:U:73:GLN:CB	2.23	0.62
1:e:157:LEU:CD2	1:t:561:TYR:HD1	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:549:MET:HE2	1:n:125:THR:HG1	1.60	0.62
1:3:157:LEU:HG	1:P:561:TYR:CD1	2.33	0.62
1:7:52:ILE:CG1	1:i:52:ILE:CG2	2.73	0.62
1:B:127:THR:HG22	1:s:552:ILE:N	2.14	0.62
1:B:212:PHE:CE2	1:s:560:THR:CB	2.80	0.62
1:C:552:ILE:HG12	1:a:127:THR:HB	1.63	0.62
1:D:127:THR:HG22	1:V:552:ILE:N	2.14	0.62
1:E:127:THR:HG22	1:k:552:ILE:N	2.14	0.62
1:F:157:LEU:HG	1:R:561:TYR:CD1	2.34	0.62
1:L:52:ILE:CG2	1:Z:52:ILE:CG1	2.73	0.62
1:d:127:THR:HG22	1:v:552:ILE:N	2.14	0.62
1:4:157:LEU:HG	1:z:561:TYR:CD1	2.33	0.62
1:f:127:THR:HG22	1:q:552:ILE:N	2.14	0.62
1:m:127:THR:HG22	1:z:552:ILE:N	2.14	0.62
1:m:552:ILE:N	1:z:127:THR:HG22	2.14	0.62
1:p:157:LEU:HG	1:v:561:TYR:CD1	2.33	0.62
1:C:236:ILE:HD11	1:L:73:GLN:CB	2.23	0.62
1:H:157:LEU:HG	1:O:561:TYR:CD1	2.34	0.62
1:I:52:ILE:CG2	1:P:52:ILE:CG1	2.73	0.62
1:M:127:THR:HG22	1:p:552:ILE:N	2.14	0.62
1:M:552:ILE:N	1:p:127:THR:HG22	2.14	0.62
1:N:561:TYR:HD1	1:i:157:LEU:CD2	2.08	0.62
1:P:552:ILE:N	1:e:127:THR:HG22	2.14	0.62
1:X:394:TYR:HD2	1:x:85:MET:HG2	1.60	0.62
1:X:552:ILE:N	1:t:127:THR:HG22	2.14	0.62
1:b:561:TYR:HD1	1:s:157:LEU:CD2	2.08	0.62
1:2:560:THR:CG2	1:T:212:PHE:CE2	2.83	0.62
1:6:52:ILE:CG2	1:T:52:ILE:CG1	2.73	0.62
1:6:552:ILE:N	1:c:127:THR:HG22	2.14	0.62
1:7:212:PHE:CE2	1:N:560:THR:CG2	2.83	0.62
1:7:561:TYR:HD1	1:P:157:LEU:CD2	2.09	0.62
1:A:552:ILE:N	1:Y:127:THR:HG22	2.14	0.62
1:B:85:MET:HG2	1:q:394:TYR:HD2	1.60	0.62
1:C:212:PHE:CE2	1:a:560:THR:CG2	2.83	0.62
1:D:561:TYR:CD1	1:Y:157:LEU:HG	2.33	0.62
1:E:212:PHE:CE2	1:k:560:THR:CG2	2.83	0.62
1:F:52:ILE:CG2	1:y:52:ILE:CG1	2.73	0.62
1:H:552:ILE:N	1:S:127:THR:HG22	2.14	0.62
1:N:73:GLN:CB	1:i:236:ILE:HD11	2.23	0.62
1:R:560:THR:CG2	1:y:212:PHE:CE2	2.83	0.62
1:W:157:LEU:HG	1:f:561:TYR:CD1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:127:THR:HG22	1:t:552:ILE:N	2.14	0.62
1:Z:212:PHE:CE2	1:w:560:THR:CG2	2.83	0.62
1:d:552:ILE:N	1:v:127:THR:HG22	2.14	0.62
1:O:85:MET:HG2	1:V:394:TYR:HD2	1.60	0.62
1:2:212:PHE:CE2	1:T:560:THR:CG2	2.83	0.62
1:3:125:THR:CG2	1:x:549:MET:HG2	2.30	0.62
1:3:552:ILE:N	1:x:127:THR:HG22	2.14	0.62
1:6:212:PHE:CE2	1:c:560:THR:CB	2.80	0.62
1:7:127:THR:HG22	1:N:552:ILE:N	2.14	0.62
1:C:125:THR:CG2	1:a:549:MET:HG2	2.30	0.62
1:G:127:THR:HG22	1:j:552:ILE:N	2.14	0.62
1:H:560:THR:CG2	1:S:212:PHE:CE2	2.83	0.62
1:O:157:LEU:CD2	1:T:561:TYR:HD1	2.09	0.62
1:W:127:THR:HG22	1:b:552:ILE:N	2.14	0.62
1:e:157:LEU:HG	1:t:561:TYR:CD1	2.34	0.62
1:O:125:THR:CG2	1:U:549:MET:HG2	2.30	0.62
1:3:560:THR:CG2	1:x:212:PHE:CE2	2.83	0.62
1:7:560:THR:CG2	1:N:212:PHE:CE2	2.83	0.62
1:A:560:THR:CG2	1:Y:212:PHE:CE2	2.83	0.62
1:E:125:THR:CG2	1:k:549:MET:HG2	2.30	0.62
1:H:125:THR:CG2	1:S:549:MET:HG2	2.30	0.62
1:I:560:THR:CG2	1:l:212:PHE:CE2	2.83	0.62
1:M:212:PHE:CE2	1:p:560:THR:CG2	2.83	0.62
1:M:560:THR:CG2	1:p:212:PHE:CE2	2.83	0.62
1:W:212:PHE:CE2	1:b:560:THR:CG2	2.83	0.62
1:X:212:PHE:CE2	1:t:560:THR:CG2	2.83	0.62
1:i:212:PHE:CE2	1:n:560:THR:CB	2.80	0.62
1:i:212:PHE:CE2	1:n:560:THR:CG2	2.83	0.62
1:i:552:ILE:N	1:n:127:THR:HG22	2.14	0.62
1:m:212:PHE:CE2	1:z:560:THR:CG2	2.83	0.62
1:2:394:TYR:HD2	1:K:85:MET:HG2	1.60	0.62
1:2:552:ILE:N	1:T:127:THR:HG22	2.14	0.62
1:4:552:ILE:N	1:O:127:THR:HG22	2.14	0.62
1:5:212:PHE:CE2	1:F:560:THR:CG2	2.83	0.62
1:6:212:PHE:CE2	1:c:560:THR:CG2	2.83	0.62
1:A:561:TYR:HD1	1:U:157:LEU:CD2	2.08	0.62
1:C:549:MET:HG2	1:a:125:THR:CG2	2.30	0.62
1:E:549:MET:HG2	1:k:125:THR:CG2	2.30	0.62
1:E:560:THR:CG2	1:k:212:PHE:CE2	2.83	0.62
1:I:212:PHE:CE2	1:l:560:THR:CB	2.80	0.62
1:K:212:PHE:CE2	1:h:560:THR:CG2	2.83	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:125:THR:CG2	1:e:549:MET:HG2	2.30	0.62
1:X:549:MET:HG2	1:t:125:THR:CG2	2.30	0.62
1:X:560:THR:CG2	1:t:212:PHE:CE2	2.83	0.62
1:X:561:TYR:HD1	1:w:157:LEU:CD2	2.08	0.62
1:m:549:MET:HG2	1:z:125:THR:CG2	2.30	0.62
1:m:560:THR:CG2	1:z:212:PHE:CE2	2.83	0.62
1:3:549:MET:HG2	1:x:125:THR:CG2	2.30	0.62
1:4:549:MET:HG2	1:O:125:THR:CG2	2.30	0.62
1:7:85:MET:HG2	1:P:394:TYR:HD2	1.60	0.62
1:7:549:MET:HG2	1:N:125:THR:CG2	2.30	0.62
1:A:549:MET:HG2	1:Y:125:THR:CG2	2.30	0.62
1:B:125:THR:CG2	1:s:549:MET:HG2	2.30	0.62
1:B:157:LEU:HG	1:n:561:TYR:CD1	2.33	0.62
1:C:560:THR:CG2	1:a:212:PHE:CE2	2.83	0.62
1:D:125:THR:HG1	1:V:549:MET:HE2	1.65	0.62
1:D:560:THR:CG2	1:V:212:PHE:CE2	2.83	0.62
1:H:549:MET:HG2	1:S:125:THR:CG2	2.30	0.62
1:J:212:PHE:CE2	1:L:560:THR:CG2	2.83	0.62
1:P:127:THR:HG22	1:e:552:ILE:N	2.14	0.62
1:R:157:LEU:CD2	1:m:561:TYR:HD1	2.08	0.62
1:S:85:MET:HG2	1:m:394:TYR:HD2	1.60	0.62
1:W:125:THR:CG2	1:b:549:MET:HG2	2.30	0.62
1:d:157:LEU:HG	1:q:561:TYR:CD1	2.34	0.62
1:g:125:THR:HG1	1:r:549:MET:HE2	1.61	0.62
1:O:157:LEU:HG	1:c:561:TYR:CD1	2.33	0.62
1:2:73:GLN:NE2	1:6:239:ARG:HH21	1.93	0.62
1:2:125:THR:CG2	1:T:549:MET:HG2	2.30	0.62
1:5:125:THR:CG2	1:F:549:MET:HG2	2.30	0.62
1:E:127:THR:HG23	1:k:551:THR:CA	2.21	0.62
1:I:212:PHE:CE2	1:l:560:THR:CG2	2.83	0.62
1:I:552:ILE:N	1:l:127:THR:HG22	2.14	0.62
1:J:125:THR:CG2	1:L:549:MET:HG2	2.30	0.62
1:R:212:PHE:CE2	1:y:560:THR:CG2	2.83	0.62
1:Z:560:THR:CG2	1:w:212:PHE:CE2	2.83	0.62
1:d:549:MET:HE2	1:v:125:THR:HG1	1.62	0.62
1:f:560:THR:CG2	1:q:212:PHE:CE2	2.83	0.62
1:2:92:PRO:CB	1:6:243:THR:OG1	2.48	0.61
1:2:549:MET:HG2	1:T:125:THR:CG2	2.30	0.61
1:2:561:TYR:CD1	1:6:157:LEU:HG	2.33	0.61
1:4:560:THR:CG2	1:O:212:PHE:CE2	2.83	0.61
1:5:560:THR:CG2	1:F:212:PHE:CE2	2.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:125:THR:CG2	1:N:549:MET:HG2	2.30	0.61
1:A:125:THR:CG2	1:Y:549:MET:HG2	2.30	0.61
1:G:125:THR:CG2	1:j:549:MET:HG2	2.30	0.61
1:G:212:PHE:CE2	1:j:560:THR:CG2	2.83	0.61
1:H:125:THR:HG1	1:S:549:MET:HE2	1.63	0.61
1:H:212:PHE:CE2	1:S:560:THR:CG2	2.83	0.61
1:J:560:THR:CG2	1:L:212:PHE:CE2	2.83	0.61
1:K:560:THR:CG2	1:h:212:PHE:CE2	2.83	0.61
1:Q:549:MET:HE2	1:o:125:THR:HG1	1.61	0.61
1:V:561:TYR:CD1	1:j:157:LEU:HG	2.34	0.61
1:g:52:ILE:CG2	1:o:52:ILE:CG1	2.73	0.61
1:3:212:PHE:CE2	1:x:560:THR:CG2	2.83	0.61
1:7:549:MET:HE2	1:N:125:THR:HG1	1.61	0.61
1:G:560:THR:CG2	1:j:212:PHE:CE2	2.83	0.61
1:I:92:PRO:CB	1:Q:243:THR:OG1	2.49	0.61
1:K:127:THR:HG22	1:h:552:ILE:N	2.14	0.61
1:K:549:MET:HG2	1:h:125:THR:CG2	2.30	0.61
1:L:243:THR:OG1	1:w:92:PRO:CB	2.49	0.61
1:N:92:PRO:CB	1:i:243:THR:OG1	2.48	0.61
1:N:394:TYR:HD2	1:l:85:MET:HG2	1.60	0.61
1:P:212:PHE:CE2	1:e:560:THR:CG2	2.83	0.61
1:R:125:THR:CG2	1:y:549:MET:HG2	2.30	0.61
1:T:243:THR:OG1	1:U:92:PRO:CB	2.49	0.61
1:W:549:MET:HG2	1:b:125:THR:CG2	2.30	0.61
1:W:560:THR:CG2	1:b:212:PHE:CE2	2.83	0.61
1:Z:125:THR:CG2	1:w:549:MET:HG2	2.30	0.61
1:d:52:ILE:CG2	1:f:52:ILE:CG1	2.73	0.61
1:d:212:PHE:CE2	1:v:560:THR:CG2	2.83	0.61
1:d:549:MET:HG2	1:v:125:THR:CG2	2.30	0.61
1:d:560:THR:CG2	1:v:212:PHE:CE2	2.83	0.61
1:h:92:PRO:CB	1:o:243:THR:OG1	2.48	0.61
1:0:560:THR:CG2	1:U:212:PHE:CE2	2.83	0.61
1:1:549:MET:HG2	1:u:125:THR:CG2	2.30	0.61
1:6:549:MET:HG2	1:c:125:THR:CG2	2.30	0.61
1:7:243:THR:OG1	1:s:92:PRO:CB	2.49	0.61
1:A:212:PHE:CE2	1:Y:560:THR:CG2	2.83	0.61
1:B:560:THR:CG2	1:s:212:PHE:CE2	2.83	0.61
1:D:52:ILE:CG1	1:j:52:ILE:CG2	2.73	0.61
1:F:243:THR:OG1	1:R:92:PRO:CB	2.49	0.61
1:G:243:THR:OG1	1:a:92:PRO:CB	2.49	0.61
1:I:125:THR:CG2	1:l:549:MET:HG2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:549:MET:HG2	1:l:125:THR:CG2	2.30	0.61
1:N:239:ARG:HH21	1:l:73:GLN:NE2	1.93	0.61
1:N:561:TYR:CD1	1:i:157:LEU:HG	2.33	0.61
1:O:394:TYR:HD2	1:T:85:MET:HG2	1.60	0.61
1:P:549:MET:HG2	1:e:125:THR:CG2	2.30	0.61
1:P:560:THR:CG2	1:e:212:PHE:CE2	2.83	0.61
1:R:549:MET:HG2	1:y:125:THR:CG2	2.30	0.61
1:Z:549:MET:HG2	1:w:125:THR:CG2	2.30	0.61
1:i:92:PRO:CB	1:y:243:THR:OG1	2.48	0.61
1:k:92:PRO:CB	1:v:243:THR:OG1	2.49	0.61
1:0:212:PHE:CE2	1:U:560:THR:CG2	2.83	0.61
1:1:212:PHE:CE2	1:u:560:THR:CG2	2.83	0.61
1:2:239:ARG:HH21	1:K:73:GLN:NE2	1.93	0.61
1:4:125:THR:CG2	1:O:549:MET:HG2	2.30	0.61
1:4:212:PHE:CE2	1:O:560:THR:CG2	2.83	0.61
1:6:92:PRO:CB	1:Z:243:THR:OG1	2.48	0.61
1:B:212:PHE:CE2	1:s:560:THR:CG2	2.83	0.61
1:C:127:THR:HG23	1:a:551:THR:CA	2.21	0.61
1:G:549:MET:HG2	1:j:125:THR:CG2	2.30	0.61
1:K:125:THR:CG2	1:h:549:MET:HG2	2.30	0.61
1:Q:52:ILE:CG1	1:u:52:ILE:CG2	2.73	0.61
1:R:127:THR:HG22	1:y:552:ILE:N	2.14	0.61
1:g:125:THR:CG2	1:r:549:MET:HG2	2.30	0.61
1:i:549:MET:HG2	1:n:125:THR:CG2	2.30	0.61
1:1:560:THR:CG2	1:u:212:PHE:CE2	2.83	0.61
1:3:243:THR:OG1	1:P:92:PRO:CB	2.48	0.61
1:4:243:THR:OG1	1:z:92:PRO:CB	2.49	0.61
1:A:243:THR:OG1	1:H:92:PRO:CB	2.48	0.61
1:D:243:THR:OG1	1:p:92:PRO:CB	2.48	0.61
1:M:125:THR:CG2	1:p:549:MET:HG2	2.30	0.61
1:N:73:GLN:NE2	1:i:239:ARG:HH21	1.93	0.61
1:V:92:PRO:CB	1:j:243:THR:OG1	2.49	0.61
1:X:125:THR:CG2	1:t:549:MET:HG2	2.30	0.61
1:Z:552:ILE:N	1:w:127:THR:HG22	2.14	0.61
1:d:125:THR:CG2	1:v:549:MET:HG2	2.30	0.61
1:d:243:THR:OG1	1:q:92:PRO:CB	2.49	0.61
1:0:549:MET:HG2	1:U:125:THR:CG2	2.30	0.61
1:3:92:PRO:CB	1:b:243:THR:OG1	2.48	0.61
1:E:92:PRO:CB	1:S:243:THR:OG1	2.48	0.61
1:H:243:THR:OG1	1:O:92:PRO:CB	2.48	0.61
1:Q:125:THR:CG2	1:o:549:MET:HG2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:125:THR:HG1	1:o:549:MET:HE2	1.61	0.61
1:Q:549:MET:HG2	1:o:125:THR:CG2	2.30	0.61
1:W:157:LEU:CD2	1:f:561:TYR:HD1	2.08	0.61
1:Y:73:GLN:NE2	1:k:239:ARG:HH21	1.93	0.61
1:e:243:THR:OG1	1:t:92:PRO:CB	2.49	0.61
1:g:212:PHE:CE2	1:r:560:THR:CG2	2.83	0.61
1:C:92:PRO:CB	1:x:243:THR:OG1	2.48	0.61
1:D:561:TYR:HD1	1:Y:157:LEU:CD2	2.08	0.61
1:J:549:MET:HG2	1:L:125:THR:CG2	2.30	0.61
1:M:549:MET:HG2	1:p:125:THR:CG2	2.30	0.61
1:M:561:TYR:CD1	1:f:157:LEU:HG	2.33	0.61
1:X:243:THR:OG1	1:x:92:PRO:CB	2.48	0.61
1:m:125:THR:CG2	1:z:549:MET:HG2	2.30	0.61
1:1:125:THR:CG2	1:u:549:MET:HG2	2.30	0.61
1:5:549:MET:HG2	1:F:125:THR:CG2	2.30	0.61
1:B:549:MET:HG2	1:s:125:THR:CG2	2.30	0.61
1:D:157:LEU:HG	1:p:561:TYR:CD1	2.33	0.61
1:D:212:PHE:CE2	1:V:560:THR:CG2	2.83	0.61
1:S:92:PRO:CB	1:m:243:THR:OG1	2.48	0.61
1:f:212:PHE:CE2	1:q:560:THR:CG2	2.83	0.61
1:g:549:MET:HG2	1:r:125:THR:CG2	2.30	0.61
1:g:560:THR:CG2	1:r:212:PHE:CE2	2.83	0.61
1:1:92:PRO:CB	1:l:243:THR:OG1	2.49	0.61
1:1:243:THR:OG1	1:y:92:PRO:CB	2.49	0.61
1:6:560:THR:CG2	1:c:212:PHE:CE2	2.83	0.61
1:Q:560:THR:CG2	1:o:212:PHE:CE2	2.83	0.61
1:g:92:PRO:CB	1:t:243:THR:OG1	2.49	0.61
1:i:560:THR:CG2	1:n:212:PHE:CE2	2.83	0.61
1:p:239:ARG:HH21	1:v:73:GLN:NE2	1.93	0.61
1:2:243:THR:OG1	1:K:92:PRO:CB	2.49	0.61
1:A:92:PRO:CB	1:U:243:THR:OG1	2.49	0.61
1:D:55:TRP:CD1	1:M:49:ARG:HB3	2.36	0.61
1:D:549:MET:HG2	1:V:125:THR:CG2	2.30	0.61
1:H:49:ARG:HB3	1:m:55:TRP:CD1	2.36	0.61
1:K:243:THR:OG1	1:r:92:PRO:CB	2.49	0.61
1:N:243:THR:OG1	1:l:92:PRO:CB	2.49	0.61
1:Q:212:PHE:CE2	1:o:560:THR:CG2	2.83	0.61
1:W:73:GLN:NE2	1:a:239:ARG:HH21	1.93	0.61
1:Z:92:PRO:CB	1:r:243:THR:OG1	2.48	0.61
1:f:55:TRP:CD1	1:p:49:ARG:HB3	2.36	0.61
1:f:125:THR:CG2	1:q:549:MET:HG2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:92:PRO:CB	1:z:243:THR:OG1	2.49	0.61
1:1:395:LYS:CG	1:y:87:GLU:OE2	2.49	0.60
1:3:49:ARG:HB3	1:X:55:TRP:CD1	2.36	0.60
1:A:55:TRP:CD1	1:S:49:ARG:HB3	2.36	0.60
1:B:157:LEU:CD2	1:n:561:TYR:HD1	2.09	0.60
1:C:157:LEU:CD2	1:L:561:TYR:HD1	2.09	0.60
1:C:395:LYS:CG	1:L:87:GLU:OE2	2.49	0.60
1:E:395:LYS:CG	1:F:87:GLU:OE2	2.49	0.60
1:I:87:GLU:OE2	1:Q:395:LYS:CG	2.49	0.60
1:X:92:PRO:CB	1:w:243:THR:OG1	2.49	0.60
1:Z:87:GLU:OE2	1:r:395:LYS:CG	2.49	0.60
1:b:55:TRP:CD1	1:x:49:ARG:HB3	2.36	0.60
1:b:92:PRO:CB	1:s:243:THR:OG1	2.49	0.60
1:t:49:ARG:HB3	1:w:55:TRP:CD1	2.36	0.60
1:0:87:GLU:OE2	1:V:395:LYS:CG	2.49	0.60
1:0:157:LEU:CD2	1:c:561:TYR:HD1	2.09	0.60
1:A:49:ARG:HB3	1:k:55:TRP:CD1	2.36	0.60
1:B:87:GLU:OE2	1:q:395:LYS:CG	2.49	0.60
1:D:125:THR:CG2	1:V:549:MET:HG2	2.30	0.60
1:N:73:GLN:HE21	1:i:239:ARG:HH21	1.49	0.60
1:O:395:LYS:CG	1:T:87:GLU:OE2	2.49	0.60
1:Q:92:PRO:CB	1:g:243:THR:OG1	2.48	0.60
1:R:55:TRP:CD1	1:z:49:ARG:HB3	2.36	0.60
1:R:243:THR:OG1	1:m:92:PRO:CB	2.49	0.60
1:a:55:TRP:CD1	1:b:49:ARG:HB3	2.36	0.60
1:f:549:MET:HG2	1:q:125:THR:CG2	2.30	0.60
1:h:87:GLU:OE2	1:o:395:LYS:CG	2.49	0.60
1:o:92:PRO:CB	1:u:243:THR:OG1	2.48	0.60
1:1:55:TRP:CD1	1:R:49:ARG:HB3	2.36	0.60
1:5:92:PRO:CB	1:n:243:THR:OG1	2.48	0.60
1:6:125:THR:CG2	1:c:549:MET:HG2	2.30	0.60
1:7:87:GLU:OE2	1:P:395:LYS:CG	2.49	0.60
1:D:395:LYS:CG	1:p:87:GLU:OE2	2.49	0.60
1:G:49:ARG:HB3	1:J:55:TRP:CD1	2.36	0.60
1:M:87:GLU:OE2	1:f:395:LYS:CG	2.49	0.60
1:X:87:GLU:OE2	1:w:395:LYS:CG	2.49	0.60
1:Z:125:THR:HG1	1:w:549:MET:HE2	1.62	0.60
1:i:125:THR:CG2	1:n:549:MET:HG2	2.30	0.60
1:r:55:TRP:CD1	1:w:49:ARG:HB3	2.36	0.60
1:1:87:GLU:OE2	1:l:395:LYS:CG	2.49	0.60
1:1:244:ASN:ND2	1:y:93:GLU:OE2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:87:GLU:OE2	1:h:395:LYS:CG	2.49	0.60
1:4:92:PRO:CB	1:h:243:THR:OG1	2.48	0.60
1:5:55:TRP:CD1	1:v:49:ARG:HB3	2.36	0.60
1:5:395:LYS:CG	1:d:87:GLU:OE2	2.49	0.60
1:7:239:ARG:HH21	1:s:73:GLN:HE21	1.49	0.60
1:7:395:LYS:CG	1:s:87:GLU:OE2	2.49	0.60
1:A:395:LYS:CG	1:H:87:GLU:OE2	2.49	0.60
1:B:244:ASN:ND2	1:n:93:GLU:OE2	2.35	0.60
1:G:73:GLN:NE2	1:M:239:ARG:HH21	1.93	0.60
1:I:395:LYS:CG	1:e:87:GLU:OE2	2.49	0.60
1:J:92:PRO:CB	1:c:243:THR:OG1	2.48	0.60
1:J:395:LYS:CG	1:j:87:GLU:OE2	2.49	0.60
1:K:395:LYS:CG	1:r:87:GLU:OE2	2.49	0.60
1:R:395:LYS:CG	1:m:87:GLU:OE2	2.49	0.60
1:T:239:ARG:HH21	1:U:73:GLN:HE21	1.49	0.60
1:T:395:LYS:CG	1:U:87:GLU:OE2	2.49	0.60
1:Z:93:GLU:OE2	1:r:244:ASN:ND2	2.35	0.60
1:0:244:ASN:ND2	1:c:93:GLU:OE2	2.35	0.60
1:0:395:LYS:CG	1:c:87:GLU:OE2	2.49	0.60
1:3:87:GLU:OE2	1:b:395:LYS:CG	2.49	0.60
1:D:49:ARG:HB3	1:j:55:TRP:CD1	2.36	0.60
1:D:92:PRO:CB	1:Y:243:THR:OG1	2.49	0.60
1:E:157:LEU:CD2	1:F:561:TYR:HD1	2.08	0.60
1:F:395:LYS:CG	1:R:87:GLU:OE2	2.49	0.60
1:G:395:LYS:CG	1:a:87:GLU:OE2	2.49	0.60
1:L:395:LYS:CG	1:w:87:GLU:OE2	2.49	0.60
1:Q:87:GLU:OE2	1:g:395:LYS:CG	2.49	0.60
1:S:87:GLU:OE2	1:m:395:LYS:CG	2.49	0.60
1:U:55:TRP:CD1	1:Y:49:ARG:HB3	2.36	0.60
1:W:49:ARG:HB3	1:s:55:TRP:CD1	2.36	0.60
1:X:93:GLU:OE2	1:w:244:ASN:ND2	2.35	0.60
1:X:395:LYS:CG	1:x:87:GLU:OE2	2.49	0.60
1:Z:55:TRP:CD1	1:c:49:ARG:HB3	2.36	0.60
1:d:55:TRP:CD1	1:f:49:ARG:HB3	2.36	0.60
1:k:87:GLU:OE2	1:v:395:LYS:CG	2.49	0.60
1:q:55:TRP:CD1	1:s:49:ARG:HB3	2.36	0.60
1:0:52:ILE:CG2	1:6:52:ILE:CG1	2.73	0.60
1:2:395:LYS:CG	1:K:87:GLU:OE2	2.49	0.60
1:7:93:GLU:OE2	1:P:244:ASN:ND2	2.35	0.60
1:7:244:ASN:ND2	1:s:93:GLU:OE2	2.35	0.60
1:B:55:TRP:CD1	1:i:49:ARG:HB3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:395:LYS:CG	1:n:87:GLU:OE2	2.49	0.60
1:C:93:GLU:OE2	1:x:244:ASN:ND2	2.35	0.60
1:D:87:GLU:OE2	1:Y:395:LYS:CG	2.49	0.60
1:F:55:TRP:CD1	1:y:49:ARG:HB3	2.36	0.60
1:I:243:THR:OG1	1:e:92:PRO:CB	2.49	0.60
1:K:55:TRP:CD1	1:g:49:ARG:HB3	2.36	0.60
1:L:55:TRP:CD1	1:Z:49:ARG:HB3	2.36	0.60
1:N:244:ASN:ND2	1:l:93:GLU:OE2	2.35	0.60
1:N:395:LYS:CG	1:l:87:GLU:OE2	2.49	0.60
1:O:49:ARG:HB3	1:h:55:TRP:CD1	2.36	0.60
1:R:244:ASN:ND2	1:m:93:GLU:OE2	2.35	0.60
1:U:49:ARG:HB3	1:V:55:TRP:CD1	2.36	0.60
1:W:243:THR:OG1	1:f:92:PRO:CB	2.49	0.60
1:W:395:LYS:CG	1:f:87:GLU:OE2	2.49	0.60
1:n:49:ARG:HB3	1:y:55:TRP:CD1	2.36	0.60
1:o:87:GLU:OE2	1:u:395:LYS:CG	2.49	0.60
1:2:244:ASN:ND2	1:K:93:GLU:OE2	2.35	0.60
1:3:55:TRP:CD1	1:e:49:ARG:HB3	2.36	0.60
1:3:167:ASN:HD21	1:3:425:ASN:HD21	1.50	0.60
1:7:49:ARG:HB3	1:i:55:TRP:CD1	2.36	0.60
1:B:52:ILE:CG2	1:i:52:ILE:CG1	2.73	0.60
1:E:49:ARG:HB3	1:v:55:TRP:CD1	2.36	0.60
1:E:73:GLN:HE21	1:S:239:ARG:HH21	1.49	0.60
1:E:93:GLU:OE2	1:S:244:ASN:ND2	2.35	0.60
1:F:49:ARG:HB3	1:n:55:TRP:CD1	2.36	0.60
1:F:208:SER:HB3	1:y:55:TRP:HH2	1.67	0.60
1:H:167:ASN:HD21	1:H:425:ASN:HD21	1.50	0.60
1:I:55:TRP:CD1	1:P:49:ARG:HB3	2.36	0.60
1:I:244:ASN:ND2	1:e:93:GLU:OE2	2.35	0.60
1:J:167:ASN:HD21	1:J:425:ASN:HD21	1.50	0.60
1:L:208:SER:HB3	1:Z:55:TRP:HH2	1.67	0.60
1:Q:55:TRP:CD1	1:l:49:ARG:HB3	2.36	0.60
1:R:208:SER:HB3	1:z:55:TRP:HH2	1.67	0.60
1:S:561:TYR:HD1	1:m:157:LEU:CD2	2.09	0.60
1:T:244:ASN:ND2	1:U:93:GLU:OE2	2.35	0.60
1:W:244:ASN:ND2	1:f:93:GLU:OE2	2.35	0.60
1:X:157:LEU:CD2	1:x:561:TYR:HD1	2.09	0.60
1:g:87:GLU:OE2	1:t:395:LYS:CG	2.49	0.60
1:l:55:TRP:CD1	1:u:49:ARG:HB3	2.36	0.60
1:l:167:ASN:HD21	1:l:425:ASN:HD21	1.50	0.60
1:u:87:GLU:OE2	1:z:395:LYS:CG	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:55:TRP:CD1	1:6:49:ARG:HB3	2.36	0.60
1:1:167:ASN:HD21	1:1:425:ASN:HD21	1.50	0.60
1:1:239:ARG:HH21	1:y:73:GLN:NE2	1.93	0.60
1:4:49:ARG:HB3	1:H:55:TRP:CD1	2.36	0.60
1:4:93:GLU:OE2	1:h:244:ASN:ND2	2.35	0.60
1:5:167:ASN:HD21	1:5:425:ASN:HD21	1.50	0.60
1:5:244:ASN:ND2	1:d:93:GLU:OE2	2.35	0.60
1:6:55:TRP:CD1	1:T:49:ARG:HB3	2.36	0.60
1:6:87:GLU:OE2	1:Z:395:LYS:CG	2.49	0.60
1:7:244:ASN:HD21	1:s:93:GLU:CD	2.10	0.60
1:A:55:TRP:HH2	1:k:208:SER:HB3	1.67	0.60
1:A:167:ASN:HD21	1:A:425:ASN:HD21	1.50	0.60
1:B:92:PRO:CB	1:q:243:THR:OG1	2.49	0.60
1:B:243:THR:OG1	1:n:92:PRO:CB	2.48	0.60
1:C:49:ARG:HB3	1:G:55:TRP:CD1	2.36	0.60
1:D:93:GLU:OE2	1:Y:244:ASN:ND2	2.35	0.60
1:K:49:ARG:HB3	1:o:55:TRP:CD1	2.36	0.60
1:K:167:ASN:HD21	1:K:425:ASN:HD21	1.50	0.60
1:L:49:ARG:HB3	1:c:55:TRP:CD1	2.36	0.60
1:O:244:ASN:ND2	1:T:93:GLU:OE2	2.35	0.60
1:U:208:SER:HB3	1:Y:55:TRP:HH2	1.67	0.60
1:V:49:ARG:HB3	1:Y:55:TRP:CD1	2.36	0.60
1:W:55:TRP:HH2	1:s:208:SER:HB3	1.67	0.60
1:a:208:SER:HB3	1:b:55:TRP:HH2	1.67	0.60
1:b:167:ASN:HD21	1:b:425:ASN:HD21	1.50	0.60
1:i:167:ASN:HD21	1:i:425:ASN:HD21	1.50	0.60
1:r:167:ASN:HD21	1:r:425:ASN:HD21	1.50	0.60
1:t:55:TRP:HH2	1:w:208:SER:HB3	1.67	0.60
1:0:243:THR:OG1	1:c:92:PRO:CB	2.48	0.60
1:2:49:ARG:HB3	1:O:55:TRP:CD1	2.36	0.60
1:2:55:TRP:CD1	1:h:49:ARG:HB3	2.36	0.60
1:2:167:ASN:HD21	1:2:425:ASN:HD21	1.50	0.60
1:4:244:ASN:ND2	1:z:93:GLU:OE2	2.35	0.60
1:C:73:GLN:HE21	1:x:239:ARG:HH21	1.49	0.60
1:G:125:THR:HG22	1:j:551:THR:HG22	1.84	0.60
1:I:55:TRP:HH2	1:N:208:SER:HB3	1.67	0.60
1:I:157:LEU:CD2	1:e:561:TYR:HD1	2.09	0.60
1:K:125:THR:HG22	1:h:551:THR:HG22	1.84	0.60
1:N:167:ASN:HD21	1:N:425:ASN:HD21	1.50	0.60
1:O:239:ARG:HH21	1:T:73:GLN:HE21	1.49	0.60
1:T:244:ASN:HD21	1:U:93:GLU:CD	2.10	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:55:TRP:CD1	1:q:49:ARG:HB3	2.36	0.60
1:W:87:GLU:OE2	1:a:395:LYS:CG	2.49	0.60
1:Y:87:GLU:OE2	1:k:395:LYS:CG	2.49	0.60
1:Z:167:ASN:HD21	1:Z:425:ASN:HD21	1.50	0.60
1:d:551:THR:HG22	1:v:125:THR:HG22	1.84	0.60
1:e:244:ASN:ND2	1:t:93:GLU:OE2	2.35	0.60
1:k:73:GLN:HE21	1:v:239:ARG:HH21	1.49	0.60
1:p:243:THR:OG1	1:v:92:PRO:CB	2.48	0.60
1:l:49:ARG:HB3	1:z:55:TRP:CD1	2.36	0.60
1:l:93:GLU:OE2	1:l:244:ASN:ND2	2.35	0.60
1:2:208:SER:HB3	1:h:55:TRP:HH2	1.67	0.60
1:2:244:ASN:HD21	1:K:93:GLU:CD	2.10	0.60
1:3:125:THR:HG1	1:x:549:MET:HE2	1.65	0.60
1:4:55:TRP:CD1	1:m:49:ARG:HB3	2.36	0.60
1:6:167:ASN:HD21	1:6:425:ASN:HD21	1.50	0.60
1:B:244:ASN:HD21	1:n:93:GLU:CD	2.10	0.60
1:C:87:GLU:OE2	1:x:395:LYS:CG	2.49	0.60
1:G:92:PRO:CB	1:M:243:THR:OG1	2.48	0.60
1:G:239:ARG:HH21	1:a:73:GLN:HE21	1.49	0.60
1:I:49:ARG:HB3	1:N:55:TRP:CD1	2.36	0.60
1:I:551:THR:HG22	1:l:125:THR:HG22	1.84	0.60
1:J:244:ASN:ND2	1:j:93:GLU:OE2	2.35	0.60
1:N:244:ASN:HD21	1:l:93:GLU:CD	2.10	0.60
1:S:55:TRP:CD1	1:k:49:ARG:HB3	2.36	0.60
1:V:87:GLU:OE2	1:j:395:LYS:CG	2.49	0.60
1:W:92:PRO:CB	1:a:243:THR:OG1	2.49	0.60
1:Y:92:PRO:CB	1:k:243:THR:OG1	2.49	0.60
1:Z:73:GLN:NE2	1:r:239:ARG:HH21	1.93	0.60
1:d:395:LYS:CG	1:q:87:GLU:OE2	2.49	0.60
1:g:55:TRP:CD1	1:o:49:ARG:HB3	2.36	0.60
1:g:167:ASN:HD21	1:g:425:ASN:HD21	1.50	0.60
1:i:87:GLU:OE2	1:y:395:LYS:CG	2.49	0.60
1:k:93:GLU:OE2	1:v:244:ASN:ND2	2.35	0.60
1:o:73:GLN:HE21	1:u:239:ARG:HH21	1.49	0.60
1:p:395:LYS:CG	1:v:87:GLU:OE2	2.49	0.60
1:r:55:TRP:HH2	1:t:208:SER:HB3	1.67	0.60
1:y:167:ASN:HD21	1:y:425:ASN:HD21	1.50	0.60
1:3:244:ASN:ND2	1:P:93:GLU:OE2	2.35	0.59
1:D:167:ASN:HD21	1:D:425:ASN:HD21	1.50	0.59
1:E:87:GLU:OE2	1:S:395:LYS:CG	2.49	0.59
1:G:87:GLU:OE2	1:M:395:LYS:CG	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:244:ASN:ND2	1:a:93:GLU:OE2	2.35	0.59
1:I:125:THR:HG22	1:l:551:THR:HG22	1.84	0.59
1:J:551:THR:CA	1:L:127:THR:CG2	2.80	0.59
1:K:244:ASN:ND2	1:r:93:GLU:OE2	2.35	0.59
1:M:93:GLU:OE2	1:f:244:ASN:ND2	2.35	0.59
1:N:49:ARG:HB3	1:P:55:TRP:CD1	2.36	0.59
1:O:243:THR:OG1	1:T:92:PRO:CB	2.49	0.59
1:P:167:ASN:HD21	1:P:425:ASN:HD21	1.50	0.59
1:Q:73:GLN:HE21	1:g:239:ARG:HH21	1.49	0.59
1:S:73:GLN:HE21	1:m:239:ARG:HH21	1.49	0.59
1:X:49:ARG:HB3	1:e:55:TRP:CD1	2.36	0.59
1:X:551:THR:HG22	1:t:125:THR:HG22	1.84	0.59
1:a:49:ARG:HB3	1:x:55:TRP:CD1	2.36	0.59
1:b:87:GLU:OE2	1:s:395:LYS:CG	2.49	0.59
1:d:167:ASN:HD21	1:d:425:ASN:HD21	1.50	0.59
1:j:167:ASN:HD21	1:j:425:ASN:HD21	1.50	0.59
1:r:49:ARG:HB3	1:t:55:TRP:CD1	2.36	0.59
1:u:167:ASN:HD21	1:u:425:ASN:HD21	1.50	0.59
1:0:93:GLU:OE2	1:V:244:ASN:ND2	2.35	0.59
1:0:244:ASN:HD21	1:c:93:GLU:CD	2.10	0.59
1:0:551:THR:HG22	1:U:125:THR:HG22	1.84	0.59
1:1:55:TRP:HH2	1:z:208:SER:HB3	1.67	0.59
1:2:551:THR:HG22	1:T:125:THR:HG22	1.84	0.59
1:4:561:TYR:HD1	1:h:157:LEU:CD2	2.09	0.59
1:7:92:PRO:CB	1:P:243:THR:OG1	2.49	0.59
1:A:87:GLU:OE2	1:U:395:LYS:CG	2.49	0.59
1:A:127:THR:CG2	1:Y:551:THR:CA	2.80	0.59
1:A:244:ASN:HD21	1:H:93:GLU:CD	2.10	0.59
1:A:551:THR:HG22	1:Y:125:THR:HG22	1.84	0.59
1:B:93:GLU:OE2	1:q:244:ASN:ND2	2.35	0.59
1:B:551:THR:HG22	1:s:125:THR:HG22	1.84	0.59
1:D:244:ASN:ND2	1:p:93:GLU:OE2	2.35	0.59
1:G:93:GLU:OE2	1:M:244:ASN:ND2	2.35	0.59
1:H:244:ASN:ND2	1:O:93:GLU:OE2	2.35	0.59
1:K:551:THR:HG22	1:h:125:THR:HG22	1.84	0.59
1:Q:49:ARG:HB3	1:u:55:TRP:CD1	2.36	0.59
1:W:551:THR:CA	1:b:127:THR:CG2	2.80	0.59
1:X:239:ARG:HH21	1:x:73:GLN:HE21	1.49	0.59
1:f:167:ASN:HD21	1:f:425:ASN:HD21	1.50	0.59
1:g:93:GLU:OE2	1:t:244:ASN:ND2	2.35	0.59
1:m:551:THR:HG22	1:z:125:THR:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:244:ASN:ND2	1:v:93:GLU:OE2	2.35	0.59
1:3:93:GLU:CD	1:b:244:ASN:HD21	2.10	0.59
1:7:125:THR:HG22	1:n:551:THR:HG22	1.84	0.59
1:C:167:ASN:HD21	1:C:425:ASN:HD21	1.50	0.59
1:M:167:ASN:HD21	1:M:425:ASN:HD21	1.50	0.59
1:M:549:MET:HE2	1:p:125:THR:HG1	1.63	0.59
1:O:167:ASN:HD21	1:O:425:ASN:HD21	1.50	0.59
1:W:125:THR:HG22	1:b:551:THR:HG22	1.84	0.59
1:b:93:GLU:OE2	1:s:244:ASN:ND2	2.35	0.59
1:g:125:THR:HG22	1:r:551:THR:HG22	1.84	0.59
1:0:561:TYR:HD1	1:V:157:LEU:HG	1.68	0.59
1:1:551:THR:HG22	1:u:125:THR:HG22	1.84	0.59
1:3:395:LYS:CG	1:P:87:GLU:OE2	2.49	0.59
1:4:395:LYS:CG	1:z:87:GLU:OE2	2.49	0.59
1:4:561:TYR:HD1	1:h:157:LEU:HG	1.68	0.59
1:5:157:LEU:HG	1:d:561:TYR:HD1	1.68	0.59
1:5:561:TYR:HD1	1:n:157:LEU:HG	1.68	0.59
1:A:93:GLU:OE2	1:U:244:ASN:ND2	2.35	0.59
1:E:167:ASN:HD21	1:E:425:ASN:HD21	1.50	0.59
1:I:157:LEU:HG	1:e:561:TYR:HD1	1.68	0.59
1:W:239:ARG:HH21	1:f:73:GLN:NE2	1.93	0.59
1:X:244:ASN:HD21	1:x:93:GLU:CD	2.10	0.59
1:e:395:LYS:CG	1:t:87:GLU:OE2	2.49	0.59
1:h:93:GLU:OE2	1:o:244:ASN:ND2	2.35	0.59
1:p:167:ASN:HD21	1:p:425:ASN:HD21	1.50	0.59
1:u:93:GLU:OE2	1:z:244:ASN:ND2	2.35	0.59
1:6:125:THR:HG22	1:c:551:THR:HG22	1.84	0.59
1:7:561:TYR:HD1	1:P:157:LEU:HG	1.68	0.59
1:A:73:GLN:NE2	1:U:239:ARG:HH21	1.93	0.59
1:B:561:TYR:HD1	1:q:157:LEU:HG	1.68	0.59
1:C:243:THR:OG1	1:L:92:PRO:CB	2.49	0.59
1:E:561:TYR:HD1	1:S:157:LEU:HG	1.68	0.59
1:H:395:LYS:CG	1:O:87:GLU:OE2	2.49	0.59
1:J:93:GLU:OE2	1:c:244:ASN:ND2	2.35	0.59
1:J:157:LEU:HG	1:j:561:TYR:HD1	1.68	0.59
1:J:561:TYR:HD1	1:c:157:LEU:HG	1.68	0.59
1:K:244:ASN:HD21	1:r:93:GLU:CD	2.10	0.59
1:N:93:GLU:OE2	1:i:244:ASN:ND2	2.35	0.59
1:O:157:LEU:HG	1:T:561:TYR:HD1	1.68	0.59
1:Q:93:GLU:OE2	1:g:244:ASN:ND2	2.35	0.59
1:i:125:THR:HG22	1:n:551:THR:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:93:GLU:OE2	1:u:244:ASN:ND2	2.35	0.59
1:0:49:ARG:HB3	1:T:55:TRP:CD1	2.36	0.59
1:0:167:ASN:HD21	1:0:425:ASN:HD21	1.50	0.59
1:3:551:THR:HG22	1:x:125:THR:HG22	1.84	0.59
1:5:49:ARG:HB3	1:E:55:TRP:CD1	2.36	0.59
1:5:93:GLU:OE2	1:n:244:ASN:ND2	2.35	0.59
1:5:243:THR:OG1	1:d:92:PRO:CB	2.49	0.59
1:B:157:LEU:HG	1:n:561:TYR:HD1	1.68	0.59
1:B:167:ASN:HD21	1:B:425:ASN:HD21	1.50	0.59
1:C:561:TYR:HD1	1:x:157:LEU:HG	1.68	0.59
1:I:93:GLU:OE2	1:Q:244:ASN:ND2	2.35	0.59
1:J:243:THR:OG1	1:j:92:PRO:CB	2.49	0.59
1:Q:93:GLU:CD	1:g:244:ASN:HD21	2.10	0.59
1:S:93:GLU:CD	1:m:244:ASN:HD21	2.10	0.59
1:Y:93:GLU:OE2	1:k:244:ASN:ND2	2.35	0.59
1:e:157:LEU:HG	1:t:561:TYR:HD1	1.68	0.59
1:o:93:GLU:CD	1:u:244:ASN:HD21	2.10	0.59
1:x:167:ASN:HD21	1:x:425:ASN:HD21	1.50	0.59
1:0:93:GLU:CD	1:V:244:ASN:HD21	2.10	0.59
1:1:93:GLU:CD	1:l:244:ASN:HD21	2.10	0.59
1:2:93:GLU:OE2	1:6:244:ASN:ND2	2.35	0.59
1:5:127:THR:CG2	1:F:551:THR:CA	2.80	0.59
1:7:55:TRP:CD1	1:B:49:ARG:HB3	2.36	0.59
1:B:93:GLU:CD	1:q:244:ASN:HD21	2.10	0.59
1:C:55:TRP:CD1	1:J:49:ARG:HB3	2.36	0.59
1:E:243:THR:OG1	1:F:92:PRO:CB	2.49	0.59
1:H:551:THR:HG22	1:S:125:THR:HG22	1.84	0.59
1:J:127:THR:CG2	1:L:551:THR:CA	2.80	0.59
1:M:92:PRO:CB	1:f:243:THR:OG1	2.48	0.59
1:S:167:ASN:HD21	1:S:425:ASN:HD21	1.50	0.59
1:W:93:GLU:OE2	1:a:244:ASN:ND2	2.35	0.59
1:0:92:PRO:CB	1:V:243:THR:OG1	2.49	0.59
1:0:157:LEU:HG	1:c:561:TYR:HD1	1.68	0.59
1:1:244:ASN:HD21	1:y:93:GLU:CD	2.10	0.59
1:1:551:THR:CA	1:u:127:THR:CG2	2.80	0.59
1:3:127:THR:CG2	1:x:551:THR:CA	2.80	0.59
1:4:157:LEU:HG	1:z:561:TYR:HD1	1.68	0.59
1:A:551:THR:CA	1:Y:127:THR:CG2	2.80	0.59
1:C:55:TRP:HH2	1:G:208:SER:HB3	1.67	0.59
1:F:157:LEU:HG	1:R:561:TYR:HD1	1.68	0.59
1:G:561:TYR:HD1	1:M:157:LEU:CD2	2.08	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:THR:CG2	1:S:551:THR:CA	2.80	0.59
1:I:92:PRO:O	1:Q:242:SER:CB	2.51	0.59
1:K:208:SER:HB3	1:g:55:TRP:HH2	1.67	0.59
1:M:125:THR:HG1	1:p:549:MET:HE2	1.63	0.59
1:R:239:ARG:HH21	1:m:73:GLN:HE21	1.49	0.59
1:R:551:THR:CA	1:y:127:THR:CG2	2.80	0.59
1:S:93:GLU:OE2	1:m:244:ASN:ND2	2.35	0.59
1:V:93:GLU:OE2	1:j:244:ASN:ND2	2.35	0.59
1:X:244:ASN:ND2	1:x:93:GLU:OE2	2.35	0.59
1:Z:93:GLU:CD	1:r:244:ASN:HD21	2.10	0.59
1:Z:127:THR:CG2	1:w:551:THR:CA	2.80	0.59
1:g:127:THR:CG2	1:r:551:THR:CA	2.80	0.59
1:h:92:PRO:O	1:o:242:SER:CB	2.51	0.59
1:l:208:SER:HB3	1:u:55:TRP:HH2	1.67	0.59
1:7:127:THR:CG2	1:N:551:THR:CA	2.80	0.59
1:D:73:GLN:NE2	1:Y:239:ARG:HH21	1.93	0.59
1:D:157:LEU:HG	1:p:561:TYR:HD1	1.68	0.59
1:D:551:THR:CA	1:V:127:THR:CG2	2.80	0.59
1:E:157:LEU:HG	1:F:561:TYR:HD1	1.68	0.59
1:F:167:ASN:HD21	1:F:425:ASN:HD21	1.50	0.59
1:F:244:ASN:ND2	1:R:93:GLU:OE2	2.35	0.59
1:G:551:THR:HG22	1:j:125:THR:HG22	1.84	0.59
1:I:93:GLU:CD	1:Q:244:ASN:HD21	2.10	0.59
1:J:92:PRO:O	1:c:242:SER:CB	2.51	0.59
1:L:244:ASN:ND2	1:w:93:GLU:OE2	2.35	0.59
1:W:127:THR:CG2	1:b:551:THR:CA	2.80	0.59
1:W:157:LEU:HG	1:f:561:TYR:HD1	1.68	0.59
1:d:125:THR:HG22	1:v:551:THR:HG22	1.84	0.59
1:d:244:ASN:ND2	1:q:93:GLU:OE2	2.35	0.59
1:f:551:THR:CA	1:q:127:THR:CG2	2.80	0.59
1:h:93:GLU:CD	1:o:244:ASN:HD21	2.10	0.59
1:p:157:LEU:CD2	1:v:561:TYR:HD1	2.08	0.59
1:2:551:THR:CA	1:T:127:THR:CG2	2.80	0.59
1:5:92:PRO:O	1:n:242:SER:CB	2.51	0.59
1:7:157:LEU:HG	1:s:561:TYR:HD1	1.68	0.59
1:7:242:SER:CB	1:s:92:PRO:O	2.51	0.59
1:C:157:LEU:HG	1:L:561:TYR:HD1	1.68	0.59
1:D:561:TYR:HD1	1:Y:157:LEU:HG	1.68	0.59
1:E:55:TRP:HH2	1:v:208:SER:HB3	1.67	0.59
1:L:157:LEU:HG	1:w:561:TYR:HD1	1.68	0.59
1:L:167:ASN:HD21	1:L:425:ASN:HD21	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:561:TYR:HD1	1:f:157:LEU:HG	1.68	0.59
1:N:87:GLU:OE2	1:i:395:LYS:CG	2.49	0.59
1:T:242:SER:CB	1:U:92:PRO:O	2.51	0.59
1:b:73:GLN:NE2	1:s:239:ARG:HH21	1.93	0.59
1:e:242:SER:CB	1:t:92:PRO:O	2.51	0.59
1:q:167:ASN:HD21	1:q:425:ASN:HD21	1.50	0.59
1:2:87:GLU:OE2	1:6:395:LYS:CG	2.49	0.58
1:2:92:PRO:O	1:6:242:SER:CB	2.51	0.58
1:3:125:THR:HG22	1:x:551:THR:HG22	1.84	0.58
1:3:157:LEU:HG	1:P:561:TYR:HD1	1.68	0.58
1:4:242:SER:CB	1:z:92:PRO:O	2.51	0.58
1:7:55:TRP:HH2	1:i:208:SER:HB3	1.67	0.58
1:7:551:THR:CA	1:N:127:THR:CG2	2.80	0.58
1:A:244:ASN:ND2	1:H:93:GLU:OE2	2.35	0.58
1:D:92:PRO:O	1:Y:242:SER:CB	2.51	0.58
1:D:127:THR:CG2	1:V:551:THR:CA	2.80	0.58
1:G:157:LEU:HG	1:a:561:TYR:HD1	1.68	0.58
1:H:157:LEU:HG	1:O:561:TYR:HD1	1.68	0.58
1:I:208:SER:HB3	1:P:55:TRP:HH2	1.67	0.58
1:L:55:TRP:HH2	1:c:208:SER:HB3	1.67	0.58
1:M:55:TRP:CD1	1:j:49:ARG:HB3	2.36	0.58
1:M:125:THR:HG22	1:p:551:THR:HG22	1.84	0.58
1:N:92:PRO:O	1:i:242:SER:CB	2.51	0.58
1:O:55:TRP:HH2	1:h:208:SER:HB3	1.67	0.58
1:T:157:LEU:HG	1:U:561:TYR:HD1	1.68	0.58
1:V:167:ASN:HD21	1:V:425:ASN:HD21	1.50	0.58
1:V:561:TYR:HD1	1:j:157:LEU:HG	1.68	0.58
1:W:242:SER:CB	1:f:92:PRO:O	2.51	0.58
1:X:167:ASN:HD21	1:X:425:ASN:HD21	1.50	0.58
1:f:208:SER:HB3	1:p:55:TRP:HH2	1.67	0.58
1:h:561:TYR:HD1	1:o:157:LEU:HG	1.68	0.58
1:p:239:ARG:HH21	1:v:73:GLN:HE21	1.49	0.58
1:5:87:GLU:OE2	1:n:395:LYS:CG	2.50	0.58
1:7:92:PRO:O	1:P:242:SER:CB	2.51	0.58
1:G:73:GLN:HE21	1:M:239:ARG:HH21	1.49	0.58
1:G:125:THR:CG2	1:j:551:THR:HG22	2.34	0.58
1:I:73:GLN:HE21	1:Q:239:ARG:HH21	1.49	0.58
1:J:87:GLU:OE2	1:c:395:LYS:CG	2.49	0.58
1:K:157:LEU:HG	1:r:561:TYR:HD1	1.68	0.58
1:M:551:THR:HG22	1:p:125:THR:CG2	2.34	0.58
1:M:551:THR:HG22	1:p:125:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:242:SER:CB	1:T:92:PRO:O	2.51	0.58
1:X:73:GLN:HE21	1:w:239:ARG:HH21	1.49	0.58
1:d:49:ARG:HB3	1:p:55:TRP:CD1	2.36	0.58
1:d:157:LEU:HG	1:q:561:TYR:HD1	1.68	0.58
1:k:92:PRO:O	1:v:242:SER:CB	2.51	0.58
1:k:93:GLU:CD	1:v:244:ASN:HD21	2.10	0.58
1:k:561:TYR:HD1	1:v:157:LEU:HG	1.68	0.58
1:m:167:ASN:HD21	1:m:425:ASN:HD21	1.50	0.58
1:t:167:ASN:HD21	1:t:425:ASN:HD21	1.50	0.58
1:2:242:SER:CB	1:K:92:PRO:O	2.51	0.58
1:3:93:GLU:OE2	1:b:244:ASN:ND2	2.35	0.58
1:5:157:LEU:CD2	1:d:561:TYR:HD1	2.09	0.58
1:6:208:SER:HB3	1:T:55:TRP:HH2	1.67	0.58
1:B:551:THR:HG22	1:s:125:THR:CG2	2.34	0.58
1:C:551:THR:CA	1:a:127:THR:CG2	2.80	0.58
1:D:208:SER:HB3	1:M:55:TRP:HH2	1.67	0.58
1:F:55:TRP:HH2	1:n:208:SER:HB3	1.67	0.58
1:G:92:PRO:O	1:M:242:SER:CB	2.51	0.58
1:G:242:SER:CB	1:a:92:PRO:O	2.51	0.58
1:G:244:ASN:HD21	1:a:93:GLU:CD	2.10	0.58
1:H:242:SER:CB	1:O:92:PRO:O	2.51	0.58
1:I:167:ASN:HD21	1:I:425:ASN:HD21	1.50	0.58
1:I:561:TYR:HD1	1:Q:157:LEU:HG	1.68	0.58
1:M:125:THR:CG2	1:p:551:THR:HG22	2.34	0.58
1:Q:561:TYR:HD1	1:g:157:LEU:HG	1.68	0.58
1:R:167:ASN:HD21	1:R:425:ASN:HD21	1.50	0.58
1:R:551:THR:HG22	1:y:125:THR:HG22	1.84	0.58
1:d:551:THR:HG22	1:v:125:THR:CG2	2.34	0.58
1:f:125:THR:HG22	1:q:551:THR:HG22	1.84	0.58
1:h:167:ASN:HD21	1:h:425:ASN:HD21	1.50	0.58
1:o:561:TYR:HD1	1:u:157:LEU:HG	1.68	0.58
1:w:167:ASN:HD21	1:w:425:ASN:HD21	1.50	0.58
1:0:125:THR:HG22	1:U:551:THR:HG22	1.84	0.58
1:0:242:SER:CB	1:c:92:PRO:O	2.51	0.58
1:0:551:THR:HG22	1:U:125:THR:CG2	2.34	0.58
1:1:561:TYR:HD1	1:l:157:LEU:HG	1.68	0.58
1:2:551:THR:HG22	1:T:125:THR:CG2	2.34	0.58
1:3:242:SER:CB	1:P:92:PRO:O	2.51	0.58
1:6:551:THR:CA	1:c:127:THR:CG2	2.80	0.58
1:7:167:ASN:HD21	1:7:425:ASN:HD21	1.50	0.58
1:B:125:THR:HG22	1:s:551:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:125:THR:HG22	1:V:551:THR:HG22	1.84	0.58
1:E:125:THR:HG22	1:k:551:THR:HG22	1.84	0.58
1:E:551:THR:CA	1:k:127:THR:CG2	2.80	0.58
1:I:242:SER:CB	1:e:92:PRO:O	2.51	0.58
1:N:242:SER:CB	1:l:92:PRO:O	2.51	0.58
1:Q:92:PRO:O	1:g:242:SER:CB	2.51	0.58
1:R:551:THR:HG22	1:y:125:THR:CG2	2.34	0.58
1:V:73:GLN:HE21	1:j:239:ARG:HH21	1.49	0.58
1:V:93:GLU:CD	1:j:244:ASN:HD21	2.10	0.58
1:Z:125:THR:CG2	1:w:551:THR:HG22	2.34	0.58
1:g:92:PRO:O	1:t:242:SER:CB	2.51	0.58
1:o:92:PRO:O	1:u:242:SER:CB	2.51	0.58
1:p:242:SER:CB	1:v:92:PRO:O	2.51	0.58
1:u:92:PRO:O	1:z:242:SER:CB	2.51	0.58
1:z:167:ASN:HD21	1:z:425:ASN:HD21	1.50	0.58
1:2:55:TRP:O	1:O:204:THR:OG1	2.20	0.58
1:2:93:GLU:CD	1:6:244:ASN:HD21	2.10	0.58
1:2:127:THR:CG2	1:T:551:THR:CA	2.80	0.58
1:5:561:TYR:HD1	1:n:157:LEU:CD2	2.08	0.58
1:7:125:THR:CG2	1:N:551:THR:HG22	2.33	0.58
1:B:242:SER:CB	1:n:92:PRO:O	2.51	0.58
1:C:244:ASN:ND2	1:L:93:GLU:OE2	2.35	0.58
1:T:167:ASN:HD21	1:T:425:ASN:HD21	1.50	0.58
1:Z:125:THR:HG22	1:w:551:THR:HG22	1.84	0.58
1:c:167:ASN:HD21	1:c:425:ASN:HD21	1.50	0.58
1:d:244:ASN:HD21	1:q:93:GLU:CD	2.10	0.58
1:e:167:ASN:HD21	1:e:425:ASN:HD21	1.50	0.58
1:g:73:GLN:NE2	1:t:239:ARG:HH21	1.93	0.58
1:h:73:GLN:HE21	1:o:239:ARG:HH21	1.49	0.58
1:i:551:THR:CA	1:n:127:THR:CG2	2.80	0.58
1:2:125:THR:HG22	1:T:551:THR:HG22	1.84	0.58
1:4:92:PRO:O	1:h:242:SER:CB	2.51	0.58
1:4:167:ASN:HD21	1:4:425:ASN:HD21	1.50	0.58
1:5:125:THR:CG2	1:F:551:THR:HG22	2.34	0.58
1:C:125:THR:HG22	1:a:551:THR:HG22	1.84	0.58
1:E:244:ASN:ND2	1:F:93:GLU:OE2	2.35	0.58
1:G:551:THR:HG22	1:j:125:THR:CG2	2.34	0.58
1:I:551:THR:CA	1:l:127:THR:CG2	2.80	0.58
1:J:125:THR:CG2	1:L:551:THR:HG22	2.34	0.58
1:J:551:THR:HG22	1:L:125:THR:CG2	2.33	0.58
1:M:92:PRO:O	1:f:242:SER:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:551:THR:CA	1:o:127:THR:CG2	2.80	0.58
1:X:551:THR:CA	1:t:127:THR:CG2	2.80	0.58
1:d:239:ARG:HH21	1:q:73:GLN:HE21	1.49	0.58
1:i:93:GLU:OE2	1:y:244:ASN:ND2	2.35	0.58
1:i:125:THR:CG2	1:n:551:THR:HG22	2.34	0.58
1:i:561:TYR:HD1	1:y:157:LEU:HG	1.68	0.58
1:m:551:THR:CA	1:z:127:THR:CG2	2.80	0.58
1:n:167:ASN:HD21	1:n:425:ASN:HD21	1.50	0.58
1:l:157:LEU:HG	1:y:561:TYR:HD1	1.68	0.58
1:5:239:ARG:HH21	1:d:73:GLN:HE21	1.49	0.58
1:5:551:THR:HG22	1:F:125:THR:CG2	2.34	0.58
1:6:93:GLU:OE2	1:Z:244:ASN:ND2	2.35	0.58
1:6:125:THR:CG2	1:c:551:THR:HG22	2.34	0.58
1:7:208:SER:HB3	1:B:55:TRP:HH2	1.67	0.58
1:A:242:SER:CB	1:H:92:PRO:O	2.51	0.58
1:B:208:SER:HB3	1:i:55:TRP:HH2	1.67	0.58
1:C:93:GLU:CD	1:x:244:ASN:HD21	2.10	0.58
1:D:242:SER:CB	1:p:92:PRO:O	2.51	0.58
1:E:93:GLU:CD	1:S:244:ASN:HD21	2.10	0.58
1:J:551:THR:HG22	1:L:125:THR:HG22	1.84	0.58
1:K:125:THR:CG2	1:h:551:THR:HG22	2.34	0.58
1:K:242:SER:CB	1:r:92:PRO:O	2.51	0.58
1:N:93:GLU:CD	1:i:244:ASN:HD21	2.10	0.58
1:Q:127:THR:CG2	1:o:551:THR:CA	2.80	0.58
1:R:242:SER:CB	1:m:92:PRO:O	2.51	0.58
1:W:561:TYR:HD1	1:a:157:LEU:HG	1.68	0.58
1:d:125:THR:CG2	1:v:551:THR:HG22	2.33	0.58
1:g:93:GLU:CD	1:t:244:ASN:HD21	2.10	0.58
1:g:561:TYR:HD1	1:t:157:LEU:HG	1.68	0.58
1:s:167:ASN:HD21	1:s:425:ASN:HD21	1.50	0.58
1:0:55:TRP:HH2	1:T:208:SER:HB3	1.67	0.58
1:l:92:PRO:O	1:l:242:SER:CB	2.51	0.58
1:5:93:GLU:CD	1:n:244:ASN:HD21	2.10	0.58
1:6:561:TYR:HD1	1:Z:157:LEU:HG	1.68	0.58
1:7:93:GLU:CD	1:P:244:ASN:HD21	2.10	0.58
1:7:551:THR:HG22	1:N:125:THR:HG22	1.84	0.58
1:G:167:ASN:HD21	1:G:425:ASN:HD21	1.50	0.58
1:H:157:LEU:CD2	1:O:561:TYR:HD1	2.08	0.58
1:I:551:THR:HG22	1:l:125:THR:CG2	2.34	0.58
1:J:93:GLU:CD	1:c:244:ASN:HD21	2.10	0.58
1:J:157:LEU:CD2	1:j:561:TYR:HD1	2.09	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:242:SER:CB	1:j:92:PRO:O	2.51	0.58
1:K:127:THR:CG2	1:h:551:THR:CA	2.80	0.58
1:W:125:THR:CG2	1:b:551:THR:HG22	2.34	0.58
1:Z:561:TYR:HD1	1:r:157:LEU:HG	1.68	0.58
1:d:204:THR:OG1	1:f:55:TRP:O	2.20	0.58
1:f:125:THR:CG2	1:q:551:THR:HG22	2.34	0.58
1:g:73:GLN:HE21	1:t:239:ARG:HH21	1.49	0.58
1:o:167:ASN:HD21	1:o:425:ASN:HD21	1.50	0.58
1:p:157:LEU:HG	1:v:561:TYR:HD1	1.68	0.58
1:0:125:THR:CG2	1:U:551:THR:HG22	2.34	0.58
1:0:208:SER:HB3	1:6:55:TRP:HH2	1.67	0.58
1:3:55:TRP:HH2	1:X:208:SER:HB3	1.67	0.58
1:3:92:PRO:O	1:b:242:SER:CB	2.51	0.58
1:3:125:THR:CG2	1:x:551:THR:HG22	2.34	0.58
1:3:157:LEU:CD2	1:P:561:TYR:HD1	2.08	0.58
1:5:242:SER:CB	1:d:92:PRO:O	2.51	0.58
1:A:551:THR:HG22	1:Y:125:THR:CG2	2.34	0.58
1:B:92:PRO:O	1:q:242:SER:CB	2.51	0.58
1:D:125:THR:CG2	1:V:551:THR:HG22	2.34	0.58
1:I:127:THR:CG2	1:l:551:THR:CA	2.80	0.58
1:J:239:ARG:HH21	1:j:73:GLN:HE21	1.49	0.58
1:J:561:TYR:HD1	1:c:157:LEU:CD2	2.08	0.58
1:O:244:ASN:HD21	1:T:93:GLU:CD	2.10	0.58
1:R:244:ASN:HD21	1:m:93:GLU:CD	2.10	0.58
1:S:92:PRO:O	1:m:242:SER:CB	2.51	0.58
1:X:92:PRO:O	1:w:242:SER:CB	2.51	0.58
1:X:242:SER:CB	1:x:92:PRO:O	2.51	0.58
1:X:551:THR:HG22	1:t:125:THR:CG2	2.34	0.58
1:Y:561:TYR:HD1	1:k:157:LEU:HG	1.68	0.58
1:f:127:THR:CG2	1:q:551:THR:CA	2.80	0.58
1:u:561:TYR:HD1	1:z:157:LEU:HG	1.68	0.58
1:v:167:ASN:HD21	1:v:425:ASN:HD21	1.50	0.58
1:0:92:PRO:O	1:V:242:SER:CB	2.51	0.58
1:0:127:THR:CG2	1:U:551:THR:CA	2.80	0.58
1:1:125:THR:CG2	1:u:551:THR:HG22	2.34	0.58
1:5:551:THR:HG22	1:F:125:THR:HG22	1.84	0.58
1:B:125:THR:CG2	1:s:551:THR:HG22	2.34	0.58
1:B:127:THR:CG2	1:s:551:THR:CA	2.80	0.58
1:C:92:PRO:O	1:x:242:SER:CB	2.51	0.58
1:E:242:SER:CB	1:F:92:PRO:O	2.51	0.58
1:H:125:THR:CG2	1:S:551:THR:HG22	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:167:ASN:HD21	1:Q:425:ASN:HD21	1.50	0.58
1:U:55:TRP:HH2	1:V:208:SER:HB3	1.67	0.58
1:U:167:ASN:HD21	1:U:425:ASN:HD21	1.50	0.58
1:Z:92:PRO:O	1:r:242:SER:CB	2.51	0.58
1:a:167:ASN:HD21	1:a:425:ASN:HD21	1.50	0.58
1:m:551:THR:HG22	1:z:125:THR:CG2	2.34	0.58
1:u:73:GLN:NE2	1:z:239:ARG:HH21	1.93	0.58
1:l:73:GLN:HE21	1:l:239:ARG:HH21	1.49	0.57
1:l:242:SER:CB	1:y:92:PRO:O	2.51	0.57
1:l:552:ILE:HG13	1:u:127:THR:HB	1.86	0.57
1:2:157:LEU:HG	1:K:561:TYR:HD1	1.68	0.57
1:4:93:GLU:CD	1:h:244:ASN:HD21	2.10	0.57
1:5:244:ASN:HD21	1:d:93:GLU:CD	2.10	0.57
1:A:125:THR:CG2	1:Y:551:THR:HG22	2.34	0.57
1:C:242:SER:CB	1:L:92:PRO:O	2.51	0.57
1:D:239:ARG:HH21	1:p:73:GLN:HE21	1.49	0.57
1:G:561:TYR:HD1	1:M:157:LEU:HG	1.68	0.57
1:I:244:ASN:HD21	1:e:93:GLU:CD	2.10	0.57
1:J:244:ASN:HD21	1:j:93:GLU:CD	2.10	0.57
1:K:551:THR:CA	1:h:127:THR:CG2	2.80	0.57
1:M:73:GLN:HE21	1:f:239:ARG:HH21	1.49	0.57
1:Q:551:THR:HG22	1:o:125:THR:CG2	2.34	0.57
1:W:551:THR:HG22	1:b:125:THR:CG2	2.34	0.57
1:X:93:GLU:CD	1:w:244:ASN:HD21	2.10	0.57
1:Z:551:THR:HG22	1:w:125:THR:HG22	1.84	0.57
1:d:157:LEU:CD2	1:q:561:TYR:HD1	2.08	0.57
1:g:125:THR:CG2	1:r:551:THR:HG22	2.34	0.57
1:k:167:ASN:HD21	1:k:425:ASN:HD21	1.50	0.57
1:m:125:THR:CG2	1:z:551:THR:HG22	2.34	0.57
1:q:208:SER:HB3	1:s:55:TRP:HH2	1.67	0.57
1:u:73:GLN:HE21	1:z:239:ARG:HH21	1.49	0.57
1:u:93:GLU:CD	1:z:244:ASN:HD21	2.10	0.57
1:6:551:THR:HG22	1:c:125:THR:CG2	2.34	0.57
1:C:551:THR:HG22	1:a:125:THR:CG2	2.34	0.57
1:D:552:ILE:HG13	1:V:127:THR:HB	1.86	0.57
1:E:92:PRO:O	1:S:242:SER:CB	2.51	0.57
1:F:242:SER:CB	1:R:92:PRO:O	2.51	0.57
1:H:55:TRP:HH2	1:m:208:SER:HB3	1.67	0.57
1:L:242:SER:CB	1:w:92:PRO:O	2.51	0.57
1:S:118:ALA:O	1:m:176:MET:HE1	2.05	0.57
1:S:561:TYR:HD1	1:m:157:LEU:HG	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:551:THR:HG22	1:r:125:THR:CG2	2.34	0.57
1:m:125:THR:HG22	1:z:551:THR:HG22	1.84	0.57
1:1:551:THR:HG22	1:u:125:THR:CG2	2.34	0.57
1:6:92:PRO:O	1:Z:242:SER:CB	2.51	0.57
1:7:125:THR:HG21	1:N:550:SER:N	2.20	0.57
1:7:552:ILE:HG13	1:N:127:THR:HB	1.86	0.57
1:D:55:TRP:O	1:j:204:THR:OG1	2.20	0.57
1:H:551:THR:CA	1:S:127:THR:CG2	2.80	0.57
1:I:561:TYR:CE2	1:Q:219:ILE:CD1	2.88	0.57
1:N:157:LEU:HG	1:l:561:TYR:HD1	1.68	0.57
1:Q:125:THR:CG2	1:o:551:THR:HG22	2.34	0.57
1:Q:125:THR:HG22	1:o:551:THR:HG22	1.84	0.57
1:R:125:THR:HG22	1:y:551:THR:HG22	1.84	0.57
1:V:561:TYR:HD1	1:j:157:LEU:CD2	2.08	0.57
1:W:244:ASN:HD21	1:f:93:GLU:CD	2.10	0.57
1:X:125:THR:CG2	1:t:551:THR:HG22	2.34	0.57
1:X:125:THR:HG22	1:t:551:THR:HG22	1.84	0.57
1:X:176:MET:HE1	1:x:118:ALA:O	2.05	0.57
1:h:561:TYR:CE2	1:o:219:ILE:CD1	2.88	0.57
1:i:92:PRO:O	1:y:242:SER:CB	2.51	0.57
1:O:125:THR:HG21	1:U:550:SER:N	2.20	0.57
1:1:176:MET:HE1	1:y:118:ALA:O	2.05	0.57
1:2:127:THR:HB	1:T:552:ILE:HG13	1.87	0.57
1:2:550:SER:N	1:T:125:THR:HG21	2.20	0.57
1:2:561:TYR:HD1	1:6:157:LEU:HG	1.68	0.57
1:3:551:THR:CA	1:x:127:THR:CG2	2.80	0.57
1:5:550:SER:N	1:F:125:THR:HG21	2.20	0.57
1:7:550:SER:N	1:N:125:THR:HG21	2.20	0.57
1:A:73:GLN:HE21	1:U:239:ARG:HH21	1.49	0.57
1:B:125:THR:HG21	1:s:550:SER:N	2.20	0.57
1:C:176:MET:HE1	1:L:118:ALA:O	2.05	0.57
1:D:555:PRO:HA	1:V:214:HIS:HD1	1.70	0.57
1:E:176:MET:HE1	1:F:118:ALA:O	2.05	0.57
1:E:551:THR:HG22	1:k:125:THR:CG2	2.34	0.57
1:G:93:GLU:CD	1:M:244:ASN:HD21	2.10	0.57
1:G:157:LEU:CD2	1:G:205:GLN:HB2	2.35	0.57
1:K:239:ARG:HH21	1:r:73:GLN:HE21	1.49	0.57
1:M:127:THR:CG2	1:p:551:THR:CA	2.80	0.57
1:N:157:LEU:CD2	1:N:205:GLN:HB2	2.35	0.57
1:P:551:THR:HG22	1:e:125:THR:CG2	2.34	0.57
1:W:73:GLN:HE21	1:a:239:ARG:HH21	1.49	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:92:PRO:O	1:s:242:SER:CB	2.51	0.57
1:f:127:THR:HB	1:q:552:ILE:HG13	1.86	0.57
1:f:555:PRO:HA	1:q:214:HIS:HD1	1.70	0.57
1:g:127:THR:HB	1:r:552:ILE:HG13	1.87	0.57
1:g:550:SER:N	1:r:125:THR:HG21	2.20	0.57
1:i:551:THR:HG22	1:n:125:THR:CG2	2.34	0.57
1:p:244:ASN:HD21	1:v:93:GLU:CD	2.10	0.57
1:v:157:LEU:CD2	1:v:205:GLN:HB2	2.35	0.57
1:l:125:THR:HG21	1:u:550:SER:N	2.20	0.57
1:2:125:THR:HG21	1:T:550:SER:N	2.20	0.57
1:2:125:THR:CG2	1:T:551:THR:HG22	2.34	0.57
1:2:176:MET:HE1	1:K:118:ALA:O	2.05	0.57
1:4:125:THR:CG2	1:O:551:THR:HG22	2.34	0.57
1:4:555:PRO:HA	1:O:214:HIS:HD1	1.70	0.57
1:7:118:ALA:O	1:P:176:MET:HE1	2.05	0.57
1:7:176:MET:HE1	1:s:118:ALA:O	2.05	0.57
1:7:214:HIS:HD1	1:N:555:PRO:HA	1.70	0.57
1:A:157:LEU:HG	1:H:561:TYR:HD1	1.68	0.57
1:C:125:THR:CG2	1:a:551:THR:HG22	2.34	0.57
1:C:550:SER:N	1:a:125:THR:HG21	2.20	0.57
1:C:555:PRO:HA	1:a:214:HIS:HD1	1.70	0.57
1:D:127:THR:HB	1:V:552:ILE:HG13	1.86	0.57
1:D:550:SER:N	1:V:125:THR:HG21	2.20	0.57
1:E:555:PRO:HA	1:k:214:HIS:HD1	1.70	0.57
1:F:176:MET:HE1	1:R:118:ALA:O	2.05	0.57
1:H:551:THR:HG22	1:S:125:THR:CG2	2.34	0.57
1:I:125:THR:CG2	1:l:551:THR:HG22	2.34	0.57
1:J:550:SER:N	1:L:125:THR:HG21	2.20	0.57
1:K:157:LEU:CD2	1:K:205:GLN:HB2	2.35	0.57
1:P:214:HIS:HD1	1:e:555:PRO:HA	1.70	0.57
1:Q:551:THR:HG22	1:o:125:THR:HG22	1.84	0.57
1:W:127:THR:HB	1:b:552:ILE:HG13	1.87	0.57
1:W:167:ASN:HD21	1:W:425:ASN:HD21	1.50	0.57
1:X:157:LEU:HG	1:x:561:TYR:HD1	1.68	0.57
1:Y:73:GLN:HE21	1:k:239:ARG:HH21	1.49	0.57
1:Y:92:PRO:O	1:k:242:SER:CB	2.51	0.57
1:Z:118:ALA:O	1:r:176:MET:HE1	2.05	0.57
1:Z:551:THR:HG22	1:w:125:THR:CG2	2.34	0.57
1:d:176:MET:HE1	1:q:118:ALA:O	2.05	0.57
1:f:550:SER:N	1:q:125:THR:HG21	2.20	0.57
1:f:552:ILE:HG13	1:q:127:THR:HB	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:118:ALA:O	1:v:176:MET:HE1	2.05	0.57
1:m:550:SER:N	1:z:125:THR:HG21	2.20	0.57
1:1:125:THR:HG22	1:u:551:THR:HG22	1.84	0.57
1:1:204:THR:OG1	1:R:55:TRP:O	2.20	0.57
1:1:219:ILE:CD1	1:y:561:TYR:CE2	2.88	0.57
1:2:561:TYR:CE2	1:6:219:ILE:CD1	2.88	0.57
1:3:551:THR:HG22	1:x:125:THR:CG2	2.34	0.57
1:3:561:TYR:CE2	1:b:219:ILE:CD1	2.88	0.57
1:4:214:HIS:HD1	1:O:555:PRO:HA	1.70	0.57
1:5:176:MET:HE1	1:d:118:ALA:O	2.05	0.57
1:5:214:HIS:HD1	1:F:555:PRO:HA	1.70	0.57
1:6:127:THR:HB	1:c:552:ILE:HG13	1.87	0.57
1:6:561:TYR:CE2	1:Z:219:ILE:CD1	2.88	0.57
1:7:561:TYR:CE2	1:P:219:ILE:CD1	2.88	0.57
1:A:92:PRO:O	1:U:242:SER:CB	2.51	0.57
1:A:219:ILE:CD1	1:H:561:TYR:CE2	2.88	0.57
1:A:552:ILE:HG13	1:Y:127:THR:HB	1.87	0.57
1:C:219:ILE:CD1	1:L:561:TYR:CE2	2.88	0.57
1:D:118:ALA:O	1:Y:176:MET:HE1	2.05	0.57
1:E:125:THR:CG2	1:k:551:THR:HG22	2.34	0.57
1:E:219:ILE:CD1	1:F:561:TYR:CE2	2.88	0.57
1:E:550:SER:N	1:k:125:THR:HG21	2.20	0.57
1:G:127:THR:HB	1:j:552:ILE:HG13	1.87	0.57
1:G:176:MET:HE1	1:a:118:ALA:O	2.05	0.57
1:J:176:MET:HE1	1:j:118:ALA:O	2.05	0.57
1:J:561:TYR:CE2	1:c:219:ILE:CD1	2.88	0.57
1:K:551:THR:HG22	1:h:125:THR:CG2	2.34	0.57
1:L:176:MET:HE1	1:w:118:ALA:O	2.05	0.57
1:M:551:THR:CA	1:p:127:THR:CG2	2.80	0.57
1:N:176:MET:HE1	1:l:118:ALA:O	2.05	0.57
1:N:561:TYR:HD1	1:i:157:LEU:HG	1.68	0.57
1:Q:55:TRP:HH2	1:u:208:SER:HB3	1.67	0.57
1:Q:118:ALA:O	1:g:176:MET:HE1	2.05	0.57
1:R:219:ILE:CD1	1:m:561:TYR:CE2	2.88	0.57
1:R:550:SER:N	1:y:125:THR:HG21	2.20	0.57
1:S:561:TYR:CE2	1:m:219:ILE:CD1	2.88	0.57
1:T:176:MET:HE1	1:U:118:ALA:O	2.05	0.57
1:V:92:PRO:O	1:j:242:SER:CB	2.51	0.57
1:V:118:ALA:O	1:j:176:MET:HE1	2.05	0.57
1:W:92:PRO:O	1:a:242:SER:CB	2.51	0.57
1:W:118:ALA:O	1:a:176:MET:HE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:219:ILE:CD1	1:x:561:TYR:CE2	2.88	0.57
1:X:550:SER:N	1:t:125:THR:HG21	2.20	0.57
1:X:561:TYR:CE2	1:w:219:ILE:CD1	2.88	0.57
1:Y:118:ALA:O	1:k:176:MET:HE1	2.05	0.57
1:Z:561:TYR:CE2	1:r:219:ILE:CD1	2.88	0.57
1:b:73:GLN:HE21	1:s:239:ARG:HH21	1.49	0.57
1:d:552:ILE:HG13	1:v:127:THR:HB	1.87	0.57
1:e:244:ASN:HD21	1:t:93:GLU:CD	2.10	0.57
1:i:127:THR:HB	1:n:552:ILE:HG13	1.87	0.57
1:i:561:TYR:CE2	1:y:219:ILE:CD1	2.88	0.57
1:l:157:LEU:CD2	1:l:205:GLN:HB2	2.35	0.57
1:o:118:ALA:O	1:u:176:MET:HE1	2.05	0.57
1:x:157:LEU:CD2	1:x:205:GLN:HB2	2.35	0.57
1:2:555:PRO:HA	1:T:214:HIS:HD1	1.70	0.57
1:3:118:ALA:O	1:b:176:MET:HE1	2.05	0.57
1:3:219:ILE:CD1	1:P:561:TYR:CE2	2.88	0.57
1:3:561:TYR:HD1	1:b:157:LEU:HG	1.68	0.57
1:4:219:ILE:CD1	1:z:561:TYR:CE2	2.88	0.57
1:4:551:THR:HG22	1:O:125:THR:CG2	2.34	0.57
1:5:118:ALA:O	1:n:176:MET:HE1	2.05	0.57
1:5:208:SER:HB3	1:v:55:TRP:HH2	1.67	0.57
1:5:561:TYR:CE2	1:n:219:ILE:CD1	2.88	0.57
1:6:551:THR:HG22	1:c:125:THR:HG22	1.84	0.57
1:7:551:THR:HG22	1:N:125:THR:CG2	2.34	0.57
1:A:125:THR:HG21	1:Y:550:SER:N	2.20	0.57
1:A:176:MET:HE1	1:H:118:ALA:O	2.05	0.57
1:D:561:TYR:CE2	1:Y:219:ILE:CD1	2.88	0.57
1:E:214:HIS:HD1	1:k:555:PRO:HA	1.70	0.57
1:G:219:ILE:CD1	1:a:561:TYR:CE2	2.88	0.57
1:I:550:SER:N	1:l:125:THR:HG21	2.20	0.57
1:J:214:HIS:HD1	1:L:555:PRO:HA	1.70	0.57
1:K:125:THR:HG21	1:h:550:SER:N	2.20	0.57
1:N:561:TYR:CE2	1:i:219:ILE:CD1	2.88	0.57
1:O:176:MET:HE1	1:T:118:ALA:O	2.05	0.57
1:R:125:THR:CG2	1:y:551:THR:HG22	2.34	0.57
1:W:176:MET:HE1	1:f:118:ALA:O	2.05	0.57
1:W:550:SER:N	1:b:125:THR:HG21	2.20	0.57
1:Y:167:ASN:HD21	1:Y:425:ASN:HD21	1.50	0.57
1:Z:125:THR:HG21	1:w:550:SER:N	2.20	0.57
1:b:561:TYR:HD1	1:s:157:LEU:HG	1.68	0.57
1:d:127:THR:CG2	1:v:551:THR:CA	2.80	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:242:SER:CB	1:q:92:PRO:O	2.51	0.57
1:e:219:ILE:CD1	1:t:561:TYR:CE2	2.88	0.57
1:k:561:TYR:CE2	1:v:219:ILE:CD1	2.88	0.57
1:r:204:THR:OG1	1:w:55:TRP:O	2.20	0.57
1:0:118:ALA:O	1:V:176:MET:HE1	2.05	0.57
1:1:550:SER:N	1:u:125:THR:HG21	2.20	0.57
1:2:219:ILE:CD1	1:K:561:TYR:CE2	2.88	0.57
1:4:118:ALA:O	1:h:176:MET:HE1	2.05	0.57
1:A:561:TYR:CE2	1:U:219:ILE:CD1	2.88	0.57
1:B:219:ILE:CD1	1:n:561:TYR:CE2	2.88	0.57
1:B:551:THR:CA	1:s:127:THR:CG2	2.80	0.57
1:C:214:HIS:HD1	1:a:555:PRO:HA	1.70	0.57
1:D:93:GLU:CD	1:Y:244:ASN:HD21	2.10	0.57
1:F:244:ASN:HD21	1:R:93:GLU:CD	2.10	0.57
1:G:55:TRP:HH2	1:J:208:SER:HB3	1.67	0.57
1:G:551:THR:CA	1:j:127:THR:CG2	2.80	0.57
1:H:219:ILE:CD1	1:O:561:TYR:CE2	2.88	0.57
1:J:118:ALA:O	1:c:176:MET:HE1	2.05	0.57
1:L:244:ASN:HD21	1:w:93:GLU:CD	2.10	0.57
1:M:93:GLU:CD	1:f:244:ASN:HD21	2.10	0.57
1:N:219:ILE:CD1	1:l:561:TYR:CE2	2.88	0.57
1:O:219:ILE:CD1	1:T:561:TYR:CE2	2.88	0.57
1:P:125:THR:CG2	1:e:551:THR:HG22	2.34	0.57
1:P:127:THR:CG2	1:e:551:THR:CA	2.80	0.57
1:S:157:LEU:CD2	1:S:205:GLN:HB2	2.35	0.57
1:W:219:ILE:CD1	1:f:561:TYR:CE2	2.88	0.57
1:Z:214:HIS:HD1	1:w:555:PRO:HA	1.70	0.57
1:Z:550:SER:N	1:w:125:THR:HG21	2.20	0.57
1:b:93:GLU:CD	1:s:244:ASN:HD21	2.10	0.57
1:b:208:SER:HB3	1:x:55:TRP:HH2	1.67	0.57
1:d:214:HIS:HD1	1:v:555:PRO:HA	1.70	0.57
1:g:125:THR:HG21	1:r:550:SER:N	2.20	0.57
1:n:49:ARG:HB3	1:y:55:TRP:NE1	2.20	0.57
1:0:219:ILE:CD1	1:c:561:TYR:CE2	2.88	0.57
1:0:551:THR:CA	1:U:127:THR:CG2	2.80	0.57
1:4:551:THR:CA	1:O:127:THR:CG2	2.80	0.57
1:6:125:THR:HG21	1:c:550:SER:N	2.20	0.57
1:A:239:ARG:HH21	1:H:73:GLN:HE21	1.49	0.57
1:B:118:ALA:O	1:q:176:MET:HE1	2.05	0.57
1:C:49:ARG:HB3	1:G:55:TRP:NE1	2.20	0.57
1:C:561:TYR:CE2	1:x:219:ILE:CD1	2.88	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:551:THR:HG22	1:V:125:THR:CG2	2.34	0.57
1:E:49:ARG:HB3	1:v:55:TRP:NE1	2.20	0.57
1:G:118:ALA:O	1:M:176:MET:HE1	2.05	0.57
1:G:555:PRO:HA	1:j:214:HIS:HD1	1.70	0.57
1:I:176:MET:HE1	1:e:118:ALA:O	2.05	0.57
1:L:219:ILE:CD1	1:w:561:TYR:CE2	2.88	0.57
1:R:125:THR:HG21	1:y:550:SER:N	2.20	0.57
1:S:208:SER:HB3	1:k:55:TRP:HH2	1.67	0.57
1:Z:55:TRP:NE1	1:c:49:ARG:HB3	2.20	0.57
1:a:55:TRP:HH2	1:x:208:SER:HB3	1.67	0.57
1:b:561:TYR:CE2	1:s:219:ILE:CD1	2.88	0.57
1:f:551:THR:HG22	1:q:125:THR:CG2	2.34	0.57
1:g:55:TRP:NE1	1:o:49:ARG:HB3	2.20	0.57
1:g:208:SER:HB3	1:o:55:TRP:HH2	1.67	0.57
1:g:551:THR:HG22	1:r:125:THR:HG22	1.84	0.57
1:i:551:THR:HG22	1:n:125:THR:HG22	1.84	0.57
1:p:176:MET:HE1	1:v:118:ALA:O	2.05	0.57
1:6:555:PRO:HA	1:c:214:HIS:HD1	1.70	0.57
1:A:208:SER:HB3	1:S:55:TRP:HH2	1.67	0.57
1:A:561:TYR:HD1	1:U:157:LEU:HG	1.68	0.57
1:D:219:ILE:CD1	1:p:561:TYR:CE2	2.88	0.57
1:E:561:TYR:CE2	1:S:219:ILE:CD1	2.88	0.57
1:F:219:ILE:CD1	1:R:561:TYR:CE2	2.88	0.57
1:H:127:THR:HB	1:S:552:ILE:HG13	1.87	0.57
1:I:552:ILE:HG13	1:l:127:THR:HB	1.87	0.57
1:K:127:THR:HB	1:h:552:ILE:HG13	1.87	0.57
1:M:555:PRO:HA	1:p:214:HIS:HD1	1.70	0.57
1:Q:49:ARG:HB3	1:u:55:TRP:NE1	2.20	0.57
1:R:176:MET:HE1	1:m:118:ALA:O	2.05	0.57
1:W:55:TRP:NE1	1:q:49:ARG:HB3	2.20	0.57
1:W:555:PRO:HA	1:b:214:HIS:HD1	1.70	0.57
1:Y:561:TYR:CE2	1:k:219:ILE:CD1	2.88	0.57
1:i:125:THR:HG21	1:n:550:SER:N	2.20	0.57
1:r:208:SER:HB3	1:w:55:TRP:HH2	1.67	0.57
1:l:561:TYR:CE2	1:l:219:ILE:CD1	2.88	0.56
1:3:127:THR:HB	1:x:552:ILE:HG13	1.87	0.56
1:3:176:MET:HE1	1:P:118:ALA:O	2.05	0.56
1:A:118:ALA:O	1:U:176:MET:HE1	2.05	0.56
1:A:214:HIS:HD1	1:Y:555:PRO:HA	1.70	0.56
1:C:125:THR:HG21	1:a:550:SER:N	2.20	0.56
1:D:244:ASN:HD21	1:p:93:GLU:CD	2.10	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:176:MET:HE1	1:O:118:ALA:O	2.05	0.56
1:H:214:HIS:HD1	1:S:555:PRO:HA	1.70	0.56
1:M:214:HIS:HD1	1:p:555:PRO:HA	1.70	0.56
1:M:550:SER:N	1:p:125:THR:HG21	2.20	0.56
1:M:561:TYR:CE2	1:f:219:ILE:CD1	2.88	0.56
1:P:127:THR:HB	1:e:552:ILE:HG13	1.87	0.56
1:V:49:ARG:HB3	1:Y:55:TRP:NE1	2.20	0.56
1:W:561:TYR:CE2	1:a:219:ILE:CD1	2.88	0.56
1:X:55:TRP:HH2	1:e:208:SER:HB3	1.67	0.56
1:b:118:ALA:O	1:s:176:MET:HE1	2.05	0.56
1:d:551:THR:CA	1:v:127:THR:CG2	2.80	0.56
1:g:157:LEU:CD2	1:g:205:GLN:HB2	2.35	0.56
1:u:157:LEU:CD2	1:u:205:GLN:HB2	2.35	0.56
1:0:561:TYR:CE2	1:V:219:ILE:CD1	2.88	0.56
1:3:55:TRP:NE1	1:e:49:ARG:HB3	2.20	0.56
1:3:73:GLN:HE21	1:b:239:ARG:HH21	1.49	0.56
1:4:244:ASN:HD21	1:z:93:GLU:CD	2.10	0.56
1:4:552:ILE:HG13	1:O:127:THR:HB	1.87	0.56
1:6:127:THR:CG2	1:c:551:THR:CA	2.80	0.56
1:7:551:THR:CG2	1:N:125:THR:CG2	2.83	0.56
1:B:214:HIS:HD1	1:s:555:PRO:HA	1.70	0.56
1:B:561:TYR:CE2	1:q:219:ILE:CD1	2.88	0.56
1:D:55:TRP:NE1	1:M:49:ARG:HB3	2.20	0.56
1:F:49:ARG:HB3	1:n:55:TRP:NE1	2.20	0.56
1:G:125:THR:HG21	1:j:550:SER:N	2.20	0.56
1:I:118:ALA:O	1:Q:176:MET:HE1	2.05	0.56
1:K:49:ARG:HB3	1:o:55:TRP:NE1	2.20	0.56
1:K:219:ILE:CD1	1:r:561:TYR:CE2	2.88	0.56
1:M:125:THR:HG21	1:p:550:SER:N	2.20	0.56
1:N:118:ALA:O	1:i:176:MET:HE1	2.05	0.56
1:Q:55:TRP:NE1	1:l:49:ARG:HB3	2.20	0.56
1:Q:125:THR:HG21	1:o:550:SER:N	2.20	0.56
1:X:118:ALA:O	1:w:176:MET:HE1	2.05	0.56
1:g:551:THR:CA	1:r:127:THR:CG2	2.80	0.56
1:i:555:PRO:HA	1:n:214:HIS:HD1	1.70	0.56
1:m:555:PRO:HA	1:z:214:HIS:HD1	1.70	0.56
1:0:49:ARG:HB3	1:T:55:TRP:NE1	2.20	0.56
1:0:176:MET:HE1	1:c:118:ALA:O	2.05	0.56
1:0:214:HIS:HD1	1:U:555:PRO:HA	1.70	0.56
1:1:55:TRP:O	1:z:204:THR:OG1	2.20	0.56
1:1:208:SER:HB3	1:R:55:TRP:HH2	1.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:214:HIS:HD1	1:u:555:PRO:HA	1.70	0.56
1:2:94:LYS:CA	1:6:242:SER:HB3	2.36	0.56
1:2:118:ALA:O	1:6:176:MET:HE1	2.05	0.56
1:2:125:THR:CG2	1:T:551:THR:CG2	2.83	0.56
1:3:214:HIS:HD1	1:x:555:PRO:HA	1.70	0.56
1:4:49:ARG:HB3	1:H:55:TRP:NE1	2.20	0.56
1:4:242:SER:HB3	1:z:94:LYS:CA	2.36	0.56
1:5:55:TRP:NE1	1:v:49:ARG:HB3	2.20	0.56
1:5:125:THR:HG22	1:F:551:THR:HG22	1.84	0.56
1:5:219:ILE:CD1	1:d:561:TYR:CE2	2.88	0.56
1:7:55:TRP:NE1	1:B:49:ARG:HB3	2.20	0.56
1:7:219:ILE:CD1	1:s:561:TYR:CE2	2.88	0.56
1:A:49:ARG:HB3	1:k:55:TRP:NE1	2.20	0.56
1:A:55:TRP:NE1	1:S:49:ARG:HB3	2.20	0.56
1:A:157:LEU:CD2	1:A:205:GLN:HB2	2.35	0.56
1:B:550:SER:N	1:s:125:THR:HG21	2.20	0.56
1:C:118:ALA:O	1:x:176:MET:HE1	2.05	0.56
1:D:176:MET:HE1	1:p:118:ALA:O	2.05	0.56
1:E:125:THR:HG21	1:k:550:SER:N	2.20	0.56
1:E:552:ILE:HG13	1:k:127:THR:HB	1.87	0.56
1:F:55:TRP:NE1	1:y:49:ARG:HB3	2.20	0.56
1:G:49:ARG:HB3	1:J:55:TRP:NE1	2.20	0.56
1:G:125:THR:CG2	1:j:551:THR:CG2	2.83	0.56
1:G:127:THR:CG2	1:j:551:THR:CA	2.80	0.56
1:I:214:HIS:HD1	1:l:555:PRO:HA	1.70	0.56
1:J:219:ILE:CD1	1:j:561:TYR:CE2	2.88	0.56
1:K:555:PRO:HA	1:h:214:HIS:HD1	1.70	0.56
1:L:49:ARG:HB3	1:c:55:TRP:NE1	2.20	0.56
1:L:55:TRP:NE1	1:Z:49:ARG:HB3	2.20	0.56
1:M:561:TYR:HD1	1:f:157:LEU:CD2	2.09	0.56
1:N:94:LYS:CA	1:i:242:SER:HB3	2.36	0.56
1:O:49:ARG:HB3	1:h:55:TRP:NE1	2.20	0.56
1:Q:550:SER:N	1:o:125:THR:HG21	2.20	0.56
1:R:55:TRP:NE1	1:z:49:ARG:HB3	2.20	0.56
1:R:127:THR:HB	1:y:552:ILE:HG13	1.87	0.56
1:S:55:TRP:NE1	1:k:49:ARG:HB3	2.20	0.56
1:T:219:ILE:CD1	1:U:561:TYR:CE2	2.88	0.56
1:V:561:TYR:CE2	1:j:219:ILE:CD1	2.88	0.56
1:W:552:ILE:HG13	1:b:127:THR:HB	1.86	0.56
1:X:555:PRO:HA	1:t:214:HIS:HD1	1.70	0.56
1:a:55:TRP:NE1	1:b:49:ARG:HB3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:55:TRP:NE1	1:x:49:ARG:HB3	2.20	0.56
1:c:157:LEU:CD2	1:c:205:GLN:HB2	2.35	0.56
1:d:219:ILE:CD1	1:q:561:TYR:CE2	2.88	0.56
1:d:550:SER:N	1:v:125:THR:HG21	2.20	0.56
1:e:242:SER:HB3	1:t:94:LYS:CA	2.36	0.56
1:f:55:TRP:NE1	1:p:49:ARG:HB3	2.20	0.56
1:g:118:ALA:O	1:t:176:MET:HE1	2.05	0.56
1:g:555:PRO:HA	1:r:214:HIS:HD1	1.70	0.56
1:g:561:TYR:CE2	1:t:219:ILE:CD1	2.88	0.56
1:h:118:ALA:O	1:o:176:MET:HE1	2.05	0.56
1:i:127:THR:CG2	1:n:551:THR:CA	2.80	0.56
1:n:55:TRP:O	1:y:204:THR:OG1	2.20	0.56
1:n:157:LEU:CD2	1:n:205:GLN:HB2	2.35	0.56
1:t:49:ARG:HB3	1:w:55:TRP:NE1	2.20	0.56
1:u:118:ALA:O	1:z:176:MET:HE1	2.05	0.56
1:u:561:TYR:CE2	1:z:219:ILE:CD1	2.88	0.56
1:O:550:SER:N	1:U:125:THR:HG21	2.20	0.56
1:1:127:THR:CG2	1:u:551:THR:CA	2.80	0.56
1:1:242:SER:HB3	1:y:94:LYS:CA	2.36	0.56
1:4:208:SER:HB3	1:m:55:TRP:HH2	1.67	0.56
1:4:239:ARG:HH21	1:z:73:GLN:HE21	1.49	0.56
1:6:55:TRP:NE1	1:T:49:ARG:HB3	2.20	0.56
1:7:49:ARG:HB3	1:i:55:TRP:NE1	2.20	0.56
1:A:93:GLU:CD	1:U:244:ASN:HD21	2.10	0.56
1:C:552:ILE:HG13	1:a:127:THR:HB	1.87	0.56
1:E:118:ALA:O	1:S:176:MET:HE1	2.05	0.56
1:G:561:TYR:CE2	1:M:219:ILE:CD1	2.88	0.56
1:I:55:TRP:NE1	1:P:49:ARG:HB3	2.20	0.56
1:J:125:THR:HG22	1:L:551:THR:HG22	1.84	0.56
1:M:118:ALA:O	1:f:176:MET:HE1	2.05	0.56
1:P:157:LEU:CD2	1:P:205:GLN:HB2	2.35	0.56
1:P:550:SER:N	1:e:125:THR:HG21	2.20	0.56
1:V:55:TRP:O	1:Y:204:THR:OG1	2.20	0.56
1:W:125:THR:HG21	1:b:550:SER:N	2.20	0.56
1:Z:94:LYS:CA	1:r:242:SER:HB3	2.36	0.56
1:a:49:ARG:HB3	1:x:55:TRP:NE1	2.20	0.56
1:b:157:LEU:CD2	1:b:205:GLN:HB2	2.35	0.56
1:d:551:THR:CG2	1:v:125:THR:CG2	2.83	0.56
1:i:552:ILE:HG13	1:n:127:THR:HB	1.86	0.56
1:o:561:TYR:CE2	1:u:219:ILE:CD1	2.88	0.56
1:p:219:ILE:CD1	1:v:561:TYR:CE2	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:55:TRP:O	1:t:204:THR:OG1	2.20	0.56
1:l:55:TRP:NE1	1:R:49:ARG:HB3	2.20	0.56
1:4:125:THR:HG21	1:O:550:SER:N	2.20	0.56
1:4:561:TYR:CE2	1:h:219:ILE:CD1	2.88	0.56
1:5:127:THR:HB	1:F:552:ILE:HG13	1.87	0.56
1:5:204:THR:OG1	1:v:55:TRP:O	2.20	0.56
1:6:118:ALA:O	1:Z:176:MET:HE1	2.05	0.56
1:6:552:ILE:HG13	1:c:127:THR:HB	1.87	0.56
1:A:550:SER:N	1:Y:125:THR:HG21	2.20	0.56
1:B:176:MET:HE1	1:n:118:ALA:O	2.05	0.56
1:D:49:ARG:HB3	1:j:55:TRP:NE1	2.20	0.56
1:D:125:THR:HG21	1:V:550:SER:N	2.20	0.56
1:I:125:THR:HG21	1:l:550:SER:N	2.20	0.56
1:I:157:LEU:CD2	1:I:205:GLN:HB2	2.35	0.56
1:I:219:ILE:CD1	1:e:561:TYR:CE2	2.88	0.56
1:K:55:TRP:NE1	1:g:49:ARG:HB3	2.20	0.56
1:K:176:MET:HE1	1:r:118:ALA:O	2.05	0.56
1:L:204:THR:OG1	1:Z:55:TRP:O	2.20	0.56
1:P:125:THR:HG21	1:e:550:SER:N	2.20	0.56
1:Q:561:TYR:CE2	1:g:219:ILE:CD1	2.88	0.56
1:X:105:ASN:OD1	1:X:159:LEU:CD1	2.53	0.56
1:Y:105:ASN:OD1	1:Y:159:LEU:CD1	2.53	0.56
1:Z:552:ILE:HG13	1:w:127:THR:HB	1.87	0.56
1:i:118:ALA:O	1:y:176:MET:HE1	2.05	0.56
1:l:55:TRP:NE1	1:u:49:ARG:HB3	2.20	0.56
1:m:105:ASN:OD1	1:m:159:LEU:CD1	2.53	0.56
1:m:214:HIS:HD1	1:z:555:PRO:HA	1.70	0.56
1:s:105:ASN:OD1	1:s:159:LEU:CD1	2.53	0.56
1:1:118:ALA:O	1:l:176:MET:HE1	2.05	0.56
1:3:125:THR:HG21	1:x:550:SER:N	2.20	0.56
1:5:49:ARG:HB3	1:E:55:TRP:NE1	2.20	0.56
1:5:552:ILE:HG12	1:F:127:THR:HA	1.87	0.56
1:6:94:LYS:CA	1:Z:242:SER:HB3	2.36	0.56
1:6:550:SER:N	1:c:125:THR:HG21	2.20	0.56
1:7:242:SER:HB3	1:s:94:LYS:CA	2.36	0.56
1:A:55:TRP:O	1:k:204:THR:OG1	2.20	0.56
1:C:55:TRP:NE1	1:J:49:ARG:HB3	2.20	0.56
1:C:208:SER:HB3	1:J:55:TRP:HH2	1.67	0.56
1:D:94:LYS:CA	1:Y:242:SER:HB3	2.36	0.56
1:E:55:TRP:O	1:v:204:THR:OG1	2.20	0.56
1:F:204:THR:OG1	1:y:55:TRP:O	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:125:THR:HG21	1:S:550:SER:N	2.20	0.56
1:J:94:LYS:CA	1:c:242:SER:HB3	2.36	0.56
1:T:242:SER:HB3	1:U:94:LYS:CA	2.36	0.56
1:U:105:ASN:OD1	1:U:159:LEU:CD1	2.53	0.56
1:W:105:ASN:OD1	1:W:159:LEU:CD1	2.53	0.56
1:W:204:THR:OG1	1:q:55:TRP:O	2.20	0.56
1:W:242:SER:HB3	1:f:94:LYS:CA	2.36	0.56
1:X:125:THR:HG21	1:t:550:SER:N	2.20	0.56
1:Z:204:THR:OG1	1:c:55:TRP:O	2.20	0.56
1:h:157:LEU:CD2	1:h:205:GLN:HB2	2.35	0.56
1:i:550:SER:N	1:n:125:THR:HG21	2.20	0.56
1:t:157:LEU:CD2	1:t:205:GLN:HB2	2.35	0.56
1:1:157:LEU:CD2	1:1:205:GLN:HB2	2.35	0.56
1:2:49:ARG:HB3	1:O:55:TRP:NE1	2.20	0.56
1:2:214:HIS:HD1	1:T:555:PRO:HA	1.70	0.56
1:2:552:ILE:HG13	1:T:127:THR:HB	1.87	0.56
1:3:49:ARG:HB3	1:X:55:TRP:NE1	2.20	0.56
1:4:550:SER:N	1:O:125:THR:HG21	2.20	0.56
1:5:94:LYS:CA	1:n:242:SER:HB3	2.36	0.56
1:7:127:THR:HB	1:N:552:ILE:HG13	1.87	0.56
1:D:157:LEU:CD2	1:p:561:TYR:HD1	2.09	0.56
1:E:127:THR:CG2	1:k:551:THR:CA	2.80	0.56
1:F:105:ASN:OD1	1:F:159:LEU:CD1	2.53	0.56
1:G:55:TRP:O	1:J:204:THR:OG1	2.20	0.56
1:K:550:SER:N	1:h:125:THR:HG21	2.20	0.56
1:K:552:ILE:HG13	1:h:127:THR:HB	1.87	0.56
1:L:105:ASN:OD1	1:L:159:LEU:CD1	2.53	0.56
1:N:49:ARG:HB3	1:P:55:TRP:NE1	2.20	0.56
1:O:157:LEU:CD2	1:O:205:GLN:HB2	2.35	0.56
1:W:93:GLU:CD	1:a:244:ASN:HD21	2.10	0.56
1:d:55:TRP:NE1	1:f:49:ARG:HB3	2.20	0.56
1:e:239:ARG:HH21	1:t:73:GLN:HE21	1.49	0.56
1:f:125:THR:HG21	1:q:550:SER:N	2.20	0.56
1:i:94:LYS:CA	1:y:242:SER:HB3	2.36	0.56
1:r:55:TRP:NE1	1:w:49:ARG:HB3	2.20	0.56
1:y:105:ASN:OD1	1:y:159:LEU:CD1	2.53	0.56
1:y:157:LEU:CD2	1:y:205:GLN:HB2	2.35	0.56
1:z:157:LEU:CD2	1:z:205:GLN:HB2	2.35	0.56
1:1:49:ARG:HB3	1:z:55:TRP:NE1	2.20	0.56
1:5:73:GLN:HE21	1:n:239:ARG:HH21	1.49	0.56
1:7:555:PRO:HA	1:N:214:HIS:HD1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:LYS:CA	1:U:242:SER:HB3	2.36	0.56
1:A:125:THR:CG2	1:Y:551:THR:CG2	2.83	0.56
1:B:157:LEU:CD2	1:B:205:GLN:HB2	2.35	0.56
1:C:55:TRP:O	1:G:204:THR:OG1	2.20	0.56
1:H:555:PRO:HA	1:S:214:HIS:HD1	1.70	0.56
1:I:127:THR:HB	1:I:552:ILE:HG13	1.87	0.56
1:J:127:THR:HB	1:L:552:ILE:HG13	1.87	0.56
1:Z:105:ASN:OD1	1:Z:159:LEU:CD1	2.53	0.56
1:a:204:THR:OG1	1:b:55:TRP:O	2.20	0.56
1:g:561:TYR:HD1	1:t:157:LEU:CD2	2.08	0.56
1:i:214:HIS:HD1	1:n:555:PRO:HA	1.70	0.56
1:j:157:LEU:CD2	1:j:205:GLN:HB2	2.35	0.56
1:m:125:THR:HG21	1:z:550:SER:N	2.20	0.56
1:s:157:LEU:CD2	1:s:205:GLN:HB2	2.35	0.56
1:u:561:TYR:HD1	1:z:157:LEU:CD2	2.08	0.56
1:x:105:ASN:OD1	1:x:159:LEU:CD1	2.53	0.56
1:0:157:LEU:CD2	1:0:205:GLN:HB2	2.35	0.56
1:3:555:PRO:HA	1:x:214:HIS:HD1	1.70	0.56
1:C:551:THR:HG22	1:a:125:THR:HG22	1.84	0.56
1:D:239:ARG:HH21	1:p:73:GLN:NE2	1.93	0.56
1:H:49:ARG:HB3	1:m:55:TRP:NE1	2.20	0.56
1:H:550:SER:N	1:S:125:THR:HG21	2.20	0.56
1:I:105:ASN:OD1	1:I:159:LEU:CD1	2.53	0.56
1:M:55:TRP:NE1	1:j:49:ARG:HB3	2.20	0.56
1:S:105:ASN:OD1	1:S:159:LEU:CD1	2.53	0.56
1:U:49:ARG:HB3	1:V:55:TRP:NE1	2.20	0.56
1:U:55:TRP:NE1	1:Y:49:ARG:HB3	2.20	0.56
1:W:49:ARG:HB3	1:s:55:TRP:NE1	2.20	0.56
1:X:127:THR:HA	1:t:552:ILE:HG12	1.87	0.56
1:Z:157:LEU:CD2	1:Z:205:GLN:HB2	2.35	0.56
1:b:94:LYS:CA	1:s:242:SER:HB3	2.36	0.56
1:f:204:THR:OG1	1:p:55:TRP:O	2.20	0.56
1:m:127:THR:HB	1:z:552:ILE:HG13	1.86	0.56
1:q:55:TRP:NE1	1:s:49:ARG:HB3	2.20	0.56
1:r:157:LEU:CD2	1:r:205:GLN:HB2	2.35	0.56
1:0:73:GLN:HE21	1:V:239:ARG:HH21	1.49	0.56
1:3:550:SER:N	1:x:125:THR:HG21	2.20	0.56
1:5:55:TRP:HH2	1:E:208:SER:HB3	1.67	0.56
1:6:214:HIS:HD1	1:c:555:PRO:HA	1.70	0.56
1:C:127:THR:CG2	1:a:551:THR:CA	2.80	0.56
1:D:204:THR:OG1	1:M:55:TRP:O	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:551:THR:HG22	1:k:125:THR:HG22	1.84	0.56
1:J:242:SER:HB3	1:j:94:LYS:CA	2.36	0.56
1:P:551:THR:CG2	1:e:125:THR:CG2	2.83	0.56
1:W:157:LEU:CD2	1:W:205:GLN:HB2	2.35	0.56
1:d:49:ARG:HB3	1:p:55:TRP:NE1	2.20	0.56
1:d:157:LEU:CD2	1:d:205:GLN:HB2	2.35	0.56
1:d:242:SER:HB3	1:q:94:LYS:CA	2.36	0.56
1:f:127:THR:HA	1:q:552:ILE:HG12	1.87	0.56
1:g:204:THR:OG1	1:o:55:TRP:O	2.20	0.56
1:k:157:LEU:CD2	1:k:205:GLN:HB2	2.35	0.56
1:m:127:THR:HA	1:z:552:ILE:HG12	1.87	0.56
1:m:157:LEU:CD2	1:m:205:GLN:HB2	2.35	0.56
1:r:49:ARG:HB3	1:t:55:TRP:NE1	2.20	0.56
1:3:239:ARG:HH21	1:P:73:GLN:NE2	1.93	0.55
1:4:551:THR:CG2	1:O:125:THR:CG2	2.83	0.55
1:5:125:THR:HG21	1:F:550:SER:N	2.20	0.55
1:B:239:ARG:HH21	1:n:73:GLN:HE21	1.49	0.55
1:P:125:THR:CG2	1:e:551:THR:CG2	2.83	0.55
1:Q:55:TRP:O	1:u:204:THR:OG1	2.20	0.55
1:Q:157:LEU:CD2	1:Q:205:GLN:HB2	2.35	0.55
1:R:552:ILE:HG13	1:y:127:THR:HB	1.87	0.55
1:U:55:TRP:O	1:V:204:THR:OG1	2.20	0.55
1:U:157:LEU:CD2	1:U:205:GLN:HB2	2.35	0.55
1:V:94:LYS:CA	1:j:242:SER:HB3	2.36	0.55
1:X:127:THR:HB	1:t:552:ILE:HG13	1.86	0.55
1:e:176:MET:HE1	1:t:118:ALA:O	2.05	0.55
1:h:105:ASN:OD1	1:h:159:LEU:CD1	2.53	0.55
1:o:157:LEU:CD2	1:o:205:GLN:HB2	2.35	0.55
1:O:55:TRP:NE1	1:6:49:ARG:HB3	2.20	0.55
1:2:55:TRP:NE1	1:h:49:ARG:HB3	2.20	0.55
1:4:125:THR:CG2	1:O:551:THR:CG2	2.83	0.55
1:4:176:MET:HE1	1:z:118:ALA:O	2.05	0.55
1:5:242:SER:HB3	1:d:94:LYS:CA	2.36	0.55
1:5:551:THR:CA	1:F:127:THR:CG2	2.80	0.55
1:B:55:TRP:NE1	1:i:49:ARG:HB3	2.20	0.55
1:F:55:TRP:O	1:n:204:THR:OG1	2.20	0.55
1:J:73:GLN:HE21	1:c:239:ARG:HH21	1.49	0.55
1:L:55:TRP:O	1:c:204:THR:OG1	2.20	0.55
1:X:157:LEU:CD2	1:X:205:GLN:HB2	2.35	0.55
1:Y:157:LEU:CD2	1:Y:205:GLN:HB2	2.35	0.55
1:a:157:LEU:CD2	1:a:205:GLN:HB2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:157:LEU:CD1	1:u:219:ILE:HG23	2.36	0.55
1:5:157:LEU:CD2	1:5:205:GLN:HB2	2.35	0.55
1:B:125:THR:CG2	1:s:551:THR:CG2	2.83	0.55
1:D:242:SER:HB3	1:p:94:LYS:CA	2.36	0.55
1:E:105:ASN:OD1	1:E:159:LEU:CD1	2.53	0.55
1:E:127:THR:HB	1:k:552:ILE:HG13	1.87	0.55
1:H:239:ARG:HH21	1:O:73:GLN:NE2	1.93	0.55
1:I:49:ARG:HB3	1:N:55:TRP:NE1	2.20	0.55
1:J:125:THR:HG21	1:L:550:SER:N	2.20	0.55
1:M:94:LYS:CA	1:f:242:SER:HB3	2.36	0.55
1:N:157:LEU:CD1	1:N:219:ILE:HG23	2.36	0.55
1:W:94:LYS:CA	1:a:242:SER:HB3	2.36	0.55
1:X:49:ARG:HB3	1:e:55:TRP:NE1	2.20	0.55
1:Z:127:THR:HB	1:w:552:ILE:HG13	1.87	0.55
1:m:127:THR:CG2	1:z:551:THR:CA	2.80	0.55
1:p:242:SER:HB3	1:v:94:LYS:CA	2.36	0.55
1:z:105:ASN:OD1	1:z:159:LEU:CD1	2.53	0.55
1:0:125:THR:CG2	1:U:551:THR:CG2	2.83	0.55
1:0:239:ARG:HH21	1:c:73:GLN:HE21	1.49	0.55
1:2:242:SER:HB3	1:K:94:LYS:CA	2.36	0.55
1:3:239:ARG:HH21	1:P:73:GLN:HE21	1.49	0.55
1:4:55:TRP:NE1	1:m:49:ARG:HB3	2.20	0.55
1:4:127:THR:CG2	1:O:551:THR:CA	2.80	0.55
1:5:552:ILE:HG13	1:F:127:THR:HB	1.87	0.55
1:C:105:ASN:OD1	1:C:159:LEU:CD1	2.53	0.55
1:D:105:ASN:OD1	1:D:159:LEU:CD1	2.53	0.55
1:G:105:ASN:OD1	1:G:159:LEU:CD1	2.53	0.55
1:G:242:SER:HB3	1:a:94:LYS:CA	2.36	0.55
1:G:550:SER:N	1:j:125:THR:HG21	2.20	0.55
1:H:239:ARG:HH21	1:O:73:GLN:HE21	1.49	0.55
1:J:157:LEU:CD2	1:J:205:GLN:HB2	2.35	0.55
1:X:561:TYR:HD1	1:w:157:LEU:HG	1.68	0.55
1:Y:93:GLU:CD	1:k:244:ASN:HD21	2.10	0.55
1:Y:94:LYS:CA	1:k:242:SER:HB3	2.36	0.55
1:d:125:THR:HG21	1:v:550:SER:N	2.20	0.55
1:k:94:LYS:CA	1:v:242:SER:HB3	2.36	0.55
1:q:204:THR:OG1	1:s:55:TRP:O	2.20	0.55
1:0:204:THR:OG1	1:6:55:TRP:O	2.20	0.55
1:6:73:GLN:HE21	1:Z:239:ARG:HH21	1.49	0.55
1:B:73:GLN:HE21	1:q:239:ARG:HH21	1.49	0.55
1:B:552:ILE:HG13	1:s:127:THR:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:127:THR:HB	1:a:552:ILE:HG13	1.87	0.55
1:G:94:LYS:CA	1:M:242:SER:HB3	2.36	0.55
1:J:552:ILE:HG13	1:L:127:THR:HB	1.87	0.55
1:N:242:SER:HB3	1:l:94:LYS:CA	2.36	0.55
1:P:551:THR:CA	1:e:127:THR:CG2	2.80	0.55
1:R:127:THR:CG2	1:y:552:ILE:CG1	2.64	0.55
1:W:239:ARG:HH21	1:f:73:GLN:HE21	1.49	0.55
1:Z:555:PRO:HA	1:w:214:HIS:HD1	1.70	0.55
1:i:73:GLN:HE21	1:y:239:ARG:HH21	1.49	0.55
1:t:55:TRP:O	1:w:204:THR:OG1	2.20	0.55
1:t:105:ASN:OD1	1:t:159:LEU:CD1	2.53	0.55
1:3:208:SER:HB3	1:e:55:TRP:HH2	1.67	0.55
1:7:204:THR:OG1	1:B:55:TRP:O	2.20	0.55
1:A:125:THR:HG22	1:Y:551:THR:HG22	1.84	0.55
1:Q:127:THR:HB	1:o:552:ILE:HG13	1.87	0.55
1:X:127:THR:CG2	1:t:551:THR:CA	2.80	0.55
1:b:105:ASN:OD1	1:b:159:LEU:CD1	2.53	0.55
1:f:105:ASN:OD1	1:f:159:LEU:CD1	2.53	0.55
1:f:157:LEU:CD2	1:f:205:GLN:HB2	2.35	0.55
1:v:105:ASN:OD1	1:v:159:LEU:CD1	2.53	0.55
1:0:552:ILE:HG13	1:U:127:THR:HB	1.87	0.55
1:2:51:ASN:HA	1:O:52:ILE:O	2.07	0.55
1:4:73:GLN:HE21	1:h:239:ARG:HH21	1.49	0.55
1:5:157:LEU:CD2	1:5:205:GLN:CB	2.85	0.55
1:7:157:LEU:CD2	1:7:205:GLN:CB	2.85	0.55
1:E:157:LEU:CD2	1:E:205:GLN:CB	2.85	0.55
1:E:244:ASN:HD21	1:F:93:GLU:CD	2.10	0.55
1:J:157:LEU:CD2	1:J:205:GLN:CB	2.85	0.55
1:N:51:ASN:HA	1:P:52:ILE:O	2.07	0.55
1:Q:105:ASN:OD1	1:Q:159:LEU:CD1	2.53	0.55
1:T:157:LEU:CD2	1:T:205:GLN:CB	2.85	0.55
1:r:51:ASN:HA	1:t:52:ILE:O	2.07	0.55
1:r:52:ILE:O	1:w:51:ASN:HA	2.07	0.55
1:1:51:ASN:HA	1:z:52:ILE:O	2.07	0.55
1:1:52:ILE:O	1:R:51:ASN:HA	2.07	0.55
1:2:105:ASN:OD1	1:2:159:LEU:CD1	2.53	0.55
1:3:242:SER:HB3	1:P:94:LYS:CA	2.36	0.55
1:4:55:TRP:O	1:H:204:THR:OG1	2.20	0.55
1:A:105:ASN:OD1	1:A:159:LEU:CD1	2.53	0.55
1:A:127:THR:HB	1:Y:552:ILE:HG13	1.86	0.55
1:C:244:ASN:HD21	1:L:93:GLU:CD	2.10	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:157:LEU:CD2	1:D:205:GLN:HB2	2.35	0.55
1:I:204:THR:OG1	1:P:55:TRP:O	2.20	0.55
1:K:51:ASN:HA	1:o:52:ILE:O	2.07	0.55
1:K:157:LEU:CD2	1:K:205:GLN:CB	2.85	0.55
1:N:558:GLN:HE22	1:i:160:ARG:HE	1.55	0.55
1:P:105:ASN:OD1	1:P:159:LEU:CD1	2.53	0.55
1:Q:52:ILE:O	1:l:51:ASN:HA	2.07	0.55
1:Q:552:ILE:HG13	1:o:127:THR:HB	1.87	0.55
1:R:157:LEU:HG	1:m:561:TYR:HD1	1.68	0.55
1:R:204:THR:OG1	1:z:55:TRP:O	2.20	0.55
1:S:157:LEU:CD2	1:S:205:GLN:CB	2.85	0.55
1:X:157:LEU:CD2	1:X:205:GLN:CB	2.85	0.55
1:l:157:LEU:CD2	1:l:205:GLN:CB	2.85	0.55
1:p:160:ARG:HE	1:v:558:GLN:HE22	1.55	0.55
1:r:105:ASN:OD1	1:r:159:LEU:CD1	2.53	0.55
1:x:157:LEU:CD2	1:x:205:GLN:CB	2.85	0.55
1:1:127:THR:HA	1:u:552:ILE:HG12	1.87	0.55
1:2:558:GLN:HE22	1:6:160:ARG:HE	1.55	0.55
1:3:51:ASN:HA	1:X:52:ILE:O	2.07	0.55
1:3:94:LYS:CA	1:b:242:SER:HB3	2.36	0.55
1:4:127:THR:HB	1:O:552:ILE:HG13	1.87	0.55
1:5:52:ILE:O	1:v:51:ASN:HA	2.07	0.55
1:A:51:ASN:HA	1:k:52:ILE:O	2.07	0.55
1:A:52:ILE:O	1:S:51:ASN:HA	2.07	0.55
1:B:160:ARG:HE	1:n:558:GLN:HE22	1.55	0.55
1:C:157:LEU:CD2	1:C:205:GLN:CB	2.85	0.55
1:G:558:GLN:HE22	1:M:160:ARG:HE	1.55	0.55
1:H:51:ASN:HA	1:m:52:ILE:O	2.07	0.55
1:H:242:SER:HB3	1:O:94:LYS:CA	2.36	0.55
1:H:552:ILE:HG13	1:S:127:THR:HB	1.87	0.55
1:K:204:THR:OG1	1:g:55:TRP:O	2.20	0.55
1:R:127:THR:CG2	1:y:551:THR:CA	2.80	0.55
1:R:157:LEU:CD2	1:R:205:GLN:CB	2.85	0.55
1:a:52:ILE:O	1:b:51:ASN:HA	2.07	0.55
1:a:105:ASN:OD1	1:a:159:LEU:CD1	2.53	0.55
1:b:52:ILE:O	1:x:51:ASN:HA	2.07	0.55
1:f:54:GLU:HB2	1:p:52:ILE:CD1	2.37	0.55
1:k:105:ASN:OD1	1:k:159:LEU:CD1	2.53	0.55
1:m:157:LEU:CD2	1:m:205:GLN:CB	2.85	0.55
1:o:105:ASN:OD1	1:o:159:LEU:CD1	2.53	0.55
1:0:55:TRP:O	1:T:204:THR:OG1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:94:LYS:CA	1:V:242:SER:HB3	2.36	0.55
1:1:105:ASN:OD1	1:1:159:LEU:CD1	2.53	0.55
1:3:204:THR:OG1	1:e:55:TRP:O	2.20	0.55
1:3:551:THR:CG2	1:x:125:THR:CG2	2.83	0.55
1:7:157:LEU:CD2	1:7:205:GLN:HB2	2.35	0.55
1:A:242:SER:HB3	1:H:94:LYS:CA	2.36	0.55
1:B:242:SER:HB3	1:n:94:LYS:CA	2.36	0.55
1:D:54:GLU:HB2	1:M:52:ILE:CD1	2.37	0.55
1:D:73:GLN:HE21	1:Y:239:ARG:HH21	1.49	0.55
1:G:51:ASN:HA	1:J:52:ILE:O	2.07	0.55
1:N:105:ASN:OD1	1:N:159:LEU:CD1	2.53	0.55
1:O:105:ASN:OD1	1:O:159:LEU:CD1	2.53	0.55
1:P:552:ILE:HG13	1:e:127:THR:HB	1.87	0.55
1:W:551:THR:HG22	1:b:125:THR:HG22	1.84	0.55
1:Z:551:THR:CA	1:w:127:THR:CG2	2.80	0.55
1:g:552:ILE:HG13	1:r:127:THR:HB	1.87	0.55
1:w:157:LEU:CD2	1:w:205:GLN:CB	2.85	0.55
1:0:157:LEU:CD2	1:0:205:GLN:CB	2.85	0.54
1:0:160:ARG:HE	1:c:558:GLN:HE22	1.55	0.54
1:3:55:TRP:O	1:X:204:THR:OG1	2.20	0.54
1:4:51:ASN:HA	1:H:52:ILE:O	2.07	0.54
1:4:55:TRP:HH2	1:H:208:SER:HB3	1.67	0.54
1:5:160:ARG:HE	1:d:558:GLN:HE22	1.55	0.54
1:B:94:LYS:CA	1:q:242:SER:HB3	2.36	0.54
1:B:157:LEU:CD2	1:B:205:GLN:CB	2.85	0.54
1:D:551:THR:CG2	1:V:125:THR:CG2	2.83	0.54
1:F:51:ASN:HA	1:n:52:ILE:O	2.07	0.54
1:I:52:ILE:O	1:P:51:ASN:HA	2.07	0.54
1:I:558:GLN:HE22	1:Q:160:ARG:HE	1.55	0.54
1:J:160:ARG:HE	1:j:558:GLN:HE22	1.55	0.54
1:K:105:ASN:OD1	1:K:159:LEU:CD1	2.53	0.54
1:M:208:SER:HB3	1:j:55:TRP:HH2	1.67	0.54
1:P:127:THR:HA	1:e:552:ILE:HG12	1.87	0.54
1:Z:208:SER:HB3	1:c:55:TRP:HH2	1.67	0.54
1:Z:552:ILE:CG1	1:w:127:THR:CG2	2.64	0.54
1:c:157:LEU:CD1	1:c:219:ILE:HG23	2.36	0.54
1:d:52:ILE:O	1:f:51:ASN:HA	2.07	0.54
1:f:551:THR:CG2	1:q:125:THR:CG2	2.83	0.54
1:h:558:GLN:HE22	1:o:160:ARG:HE	1.55	0.54
1:n:157:LEU:CD1	1:n:219:ILE:HG23	2.36	0.54
1:q:54:GLU:HB2	1:s:52:ILE:CD1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:51:ASN:HA	1:w:52:ILE:O	2.07	0.54
1:0:242:SER:HB3	1:c:94:LYS:CA	2.36	0.54
1:1:127:THR:HB	1:u:552:ILE:HG13	1.87	0.54
1:2:54:GLU:HB2	1:h:52:ILE:CD1	2.37	0.54
1:2:127:THR:CG2	1:T:551:THR:C	2.81	0.54
1:3:52:ILE:O	1:e:51:ASN:HA	2.07	0.54
1:4:105:ASN:OD1	1:4:159:LEU:CD1	2.53	0.54
1:4:204:THR:OG1	1:m:55:TRP:O	2.20	0.54
1:5:55:TRP:O	1:E:204:THR:OG1	2.20	0.54
1:6:157:LEU:CD2	1:6:205:GLN:CB	2.85	0.54
1:7:52:ILE:O	1:B:51:ASN:HA	2.07	0.54
1:7:551:THR:C	1:N:127:THR:CG2	2.81	0.54
1:H:55:TRP:O	1:m:204:THR:OG1	2.20	0.54
1:H:551:THR:CG2	1:S:125:THR:CG2	2.83	0.54
1:I:52:ILE:CD1	1:N:54:GLU:HB2	2.37	0.54
1:I:160:ARG:HE	1:e:558:GLN:HE22	1.55	0.54
1:I:239:ARG:HH21	1:e:73:GLN:HE21	1.49	0.54
1:O:51:ASN:HA	1:h:52:ILE:O	2.07	0.54
1:O:55:TRP:O	1:h:204:THR:OG1	2.20	0.54
1:R:52:ILE:O	1:z:51:ASN:HA	2.07	0.54
1:U:52:ILE:CD1	1:V:54:GLU:HB2	2.37	0.54
1:V:157:LEU:CD2	1:V:205:GLN:CB	2.85	0.54
1:W:50:LEU:O	1:s:54:GLU:N	2.40	0.54
1:X:94:LYS:CA	1:w:242:SER:HB3	2.36	0.54
1:e:105:ASN:OD1	1:e:159:LEU:CD1	2.53	0.54
1:g:94:LYS:CA	1:t:242:SER:HB3	2.36	0.54
1:i:127:THR:CG2	1:n:552:ILE:CG1	2.64	0.54
1:i:157:LEU:CD2	1:i:205:GLN:CB	2.85	0.54
1:q:157:LEU:CD2	1:q:205:GLN:CB	2.85	0.54
1:0:51:ASN:HA	1:T:52:ILE:O	2.07	0.54
1:0:52:ILE:O	1:6:51:ASN:HA	2.07	0.54
1:0:558:GLN:HE22	1:V:160:ARG:HE	1.55	0.54
1:1:54:GLU:HB2	1:R:52:ILE:CD1	2.37	0.54
1:1:54:GLU:N	1:R:50:LEU:O	2.40	0.54
1:3:157:LEU:CD2	1:3:205:GLN:HB2	2.35	0.54
1:3:552:ILE:HG13	1:x:127:THR:HB	1.87	0.54
1:4:558:GLN:HE22	1:h:160:ARG:HE	1.55	0.54
1:5:105:ASN:OD1	1:5:159:LEU:CD1	2.53	0.54
1:7:50:LEU:O	1:i:54:GLU:N	2.40	0.54
1:B:52:ILE:O	1:i:51:ASN:HA	2.07	0.54
1:B:555:PRO:HA	1:s:214:HIS:HD1	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:204:THR:OG1	1:J:55:TRP:O	2.20	0.54
1:D:51:ASN:HA	1:j:52:ILE:O	2.07	0.54
1:G:160:ARG:HE	1:a:558:GLN:HE22	1.55	0.54
1:H:551:THR:C	1:S:127:THR:CG2	2.81	0.54
1:I:73:GLN:HE22	1:Q:239:ARG:HH22	0.55	0.54
1:I:242:SER:HB3	1:e:94:LYS:CA	2.36	0.54
1:L:51:ASN:HA	1:c:52:ILE:O	2.07	0.54
1:L:54:GLU:HB2	1:Z:52:ILE:CD1	2.37	0.54
1:M:52:ILE:O	1:j:51:ASN:HA	2.07	0.54
1:M:125:THR:CG2	1:p:551:THR:CG2	2.83	0.54
1:R:242:SER:HB3	1:m:94:LYS:CA	2.36	0.54
1:T:157:LEU:CD2	1:T:205:GLN:HB2	2.35	0.54
1:U:54:GLU:N	1:Y:50:LEU:O	2.40	0.54
1:W:208:SER:HB3	1:q:55:TRP:HH2	1.67	0.54
1:Z:54:GLU:N	1:c:50:LEU:O	2.40	0.54
1:d:55:TRP:HH2	1:p:208:SER:HB3	1.67	0.54
1:g:157:LEU:CD2	1:g:205:GLN:CB	2.85	0.54
1:g:551:THR:C	1:r:127:THR:CG2	2.81	0.54
1:h:73:GLN:HE22	1:o:239:ARG:HH22	0.55	0.54
1:k:157:LEU:CD1	1:k:219:ILE:HG23	2.37	0.54
1:k:558:GLN:HE22	1:v:160:ARG:HE	1.55	0.54
1:l:105:ASN:OD1	1:l:159:LEU:CD1	2.53	0.54
1:l:204:THR:OG1	1:u:55:TRP:O	2.20	0.54
1:n:50:LEU:O	1:y:54:GLU:N	2.40	0.54
1:n:55:TRP:HH2	1:y:208:SER:HB3	1.67	0.54
1:s:157:LEU:CD2	1:s:205:GLN:CB	2.85	0.54
1:u:94:LYS:CA	1:z:242:SER:HB3	2.36	0.54
1:1:127:THR:CG2	1:u:551:THR:C	2.81	0.54
1:3:160:ARG:HE	1:P:558:GLN:HE22	1.55	0.54
1:3:551:THR:C	1:x:127:THR:CG2	2.81	0.54
1:4:552:ILE:HG12	1:O:127:THR:HA	1.87	0.54
1:6:54:GLU:N	1:T:50:LEU:O	2.40	0.54
1:B:558:GLN:HE22	1:q:160:ARG:HE	1.55	0.54
1:F:54:GLU:HB2	1:y:52:ILE:CD1	2.37	0.54
1:G:127:THR:CG2	1:j:551:THR:C	2.81	0.54
1:I:157:LEU:CD2	1:I:205:GLN:CB	2.85	0.54
1:J:105:ASN:OD1	1:J:159:LEU:CD1	2.53	0.54
1:M:551:THR:CG2	1:p:125:THR:CG2	2.83	0.54
1:U:157:LEU:CD2	1:U:205:GLN:CB	2.85	0.54
1:X:55:TRP:O	1:e:204:THR:OG1	2.20	0.54
1:a:157:LEU:CD1	1:a:219:ILE:HG23	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:157:LEU:CD1	1:b:219:ILE:HG23	2.37	0.54
1:d:51:ASN:HA	1:p:52:ILE:O	2.07	0.54
1:d:551:THR:C	1:v:127:THR:CG2	2.81	0.54
1:h:157:LEU:CD2	1:h:205:GLN:CB	2.85	0.54
1:i:127:THR:CG2	1:n:551:THR:C	2.81	0.54
1:r:54:GLU:HB2	1:w:52:ILE:CD1	2.37	0.54
1:r:54:GLU:N	1:w:50:LEU:O	2.40	0.54
1:r:157:LEU:CD2	1:r:205:GLN:CB	2.85	0.54
1:u:157:LEU:CD2	1:u:205:GLN:CB	2.85	0.54
1:w:157:LEU:CD2	1:w:205:GLN:HB2	2.35	0.54
1:0:551:THR:C	1:U:127:THR:CG2	2.81	0.54
1:1:157:LEU:CD2	1:1:205:GLN:CB	2.85	0.54
1:2:52:ILE:O	1:h:51:ASN:HA	2.07	0.54
1:4:94:LYS:CA	1:h:242:SER:HB3	2.36	0.54
1:5:127:THR:CG2	1:F:551:THR:C	2.81	0.54
1:6:54:GLU:HB2	1:T:52:ILE:CD1	2.37	0.54
1:6:127:THR:CG2	1:c:551:THR:C	2.81	0.54
1:B:551:THR:C	1:s:127:THR:CG2	2.81	0.54
1:C:160:ARG:HE	1:L:558:GLN:HE22	1.55	0.54
1:E:127:THR:CG2	1:k:552:ILE:CG1	2.63	0.54
1:H:157:LEU:CD2	1:H:205:GLN:HB2	2.35	0.54
1:H:160:ARG:HE	1:O:558:GLN:HE22	1.55	0.54
1:I:94:LYS:CA	1:Q:242:SER:HB3	2.36	0.54
1:K:160:ARG:HE	1:r:558:GLN:HE22	1.55	0.54
1:N:157:LEU:CD2	1:N:205:GLN:CB	2.85	0.54
1:R:157:LEU:CD2	1:R:205:GLN:HB2	2.35	0.54
1:V:55:TRP:HH2	1:Y:208:SER:HB3	1.67	0.54
1:h:94:LYS:CA	1:o:242:SER:HB3	2.36	0.54
1:m:552:ILE:HG13	1:z:127:THR:HB	1.87	0.54
1:q:105:ASN:OD1	1:q:159:LEU:CD1	2.53	0.54
1:t:52:ILE:CD1	1:w:54:GLU:HB2	2.37	0.54
1:0:73:GLN:HE22	1:V:239:ARG:HH22	0.55	0.54
1:1:239:ARG:HH21	1:y:73:GLN:HE21	1.49	0.54
1:2:157:LEU:CD2	1:2:205:GLN:CB	2.85	0.54
1:A:157:LEU:CD2	1:A:205:GLN:CB	2.85	0.54
1:A:157:LEU:CD1	1:A:219:ILE:HG23	2.37	0.54
1:B:73:GLN:HE22	1:q:239:ARG:HH22	0.55	0.54
1:C:157:LEU:CD2	1:C:205:GLN:HB2	2.35	0.54
1:E:160:ARG:HE	1:F:558:GLN:HE22	1.55	0.54
1:F:160:ARG:HE	1:R:558:GLN:HE22	1.55	0.54
1:I:51:ASN:HA	1:N:52:ILE:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:54:GLU:HB2	1:P:52:ILE:CD1	2.37	0.54
1:I:551:THR:C	1:l:127:THR:CG2	2.81	0.54
1:J:127:THR:CG2	1:L:551:THR:C	2.81	0.54
1:K:127:THR:CG2	1:h:551:THR:C	2.81	0.54
1:P:125:THR:HG22	1:e:551:THR:HG22	1.84	0.54
1:W:157:LEU:CD2	1:W:205:GLN:CB	2.85	0.54
1:X:160:ARG:HE	1:x:558:GLN:HE22	1.55	0.54
1:Y:157:LEU:CD2	1:Y:205:GLN:CB	2.85	0.54
1:b:157:LEU:CD2	1:b:205:GLN:CB	2.85	0.54
1:d:105:ASN:OD1	1:d:159:LEU:CD1	2.53	0.54
1:d:127:THR:HA	1:v:552:ILE:HG12	1.87	0.54
1:d:157:LEU:CD2	1:d:205:GLN:CB	2.85	0.54
1:i:105:ASN:OD1	1:i:159:LEU:CD1	2.53	0.54
1:l:551:THR:C	1:u:127:THR:CG2	2.81	0.54
1:l:558:GLN:HE22	1:l:160:ARG:HE	1.55	0.54
1:4:157:LEU:CD2	1:4:205:GLN:CB	2.85	0.54
1:7:52:ILE:CD1	1:i:54:GLU:HB2	2.37	0.54
1:B:204:THR:OG1	1:i:55:TRP:O	2.20	0.54
1:D:52:ILE:O	1:M:51:ASN:HA	2.07	0.54
1:I:551:THR:CG2	1:l:125:THR:CG2	2.83	0.54
1:L:157:LEU:CD2	1:L:205:GLN:CB	2.85	0.54
1:O:52:ILE:CD1	1:h:54:GLU:HB2	2.37	0.54
1:R:54:GLU:HB2	1:z:52:ILE:CD1	2.37	0.54
1:V:105:ASN:OD1	1:V:159:LEU:CD1	2.53	0.54
1:W:54:GLU:N	1:q:50:LEU:O	2.40	0.54
1:X:127:THR:CG2	1:t:551:THR:C	2.81	0.54
1:X:552:ILE:HG13	1:t:127:THR:HB	1.87	0.54
1:a:157:LEU:CD2	1:a:205:GLN:CB	2.85	0.54
1:d:127:THR:CG2	1:v:551:THR:C	2.81	0.54
1:e:157:LEU:CD2	1:e:205:GLN:CB	2.85	0.54
1:e:160:ARG:HE	1:t:558:GLN:HE22	1.55	0.54
1:f:127:THR:CG2	1:q:551:THR:C	2.81	0.54
1:g:127:THR:CG2	1:r:551:THR:C	2.81	0.54
1:j:157:LEU:CD2	1:j:205:GLN:CB	2.85	0.54
1:m:127:THR:CG2	1:z:551:THR:C	2.81	0.54
1:q:52:ILE:O	1:s:51:ASN:HA	2.07	0.54
1:2:551:THR:C	1:T:127:THR:CG2	2.81	0.54
1:3:54:GLU:N	1:e:50:LEU:O	2.40	0.54
1:4:160:ARG:HE	1:z:558:GLN:HE22	1.55	0.54
1:7:51:ASN:HA	1:i:52:ILE:O	2.07	0.54
1:7:127:THR:CG2	1:N:551:THR:C	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:THR:CG2	1:s:125:THR:CG2	2.83	0.54
1:C:127:THR:CG2	1:a:552:ILE:CG1	2.63	0.54
1:E:157:LEU:CD2	1:E:205:GLN:HB2	2.35	0.54
1:E:558:GLN:HE22	1:S:160:ARG:HE	1.55	0.54
1:F:157:LEU:CD2	1:F:205:GLN:CB	2.85	0.54
1:G:157:LEU:CD2	1:G:205:GLN:CB	2.85	0.54
1:G:551:THR:C	1:j:127:THR:CG2	2.81	0.54
1:G:552:ILE:HG12	1:j:127:THR:HA	1.87	0.54
1:K:52:ILE:CD1	1:o:54:GLU:HB2	2.37	0.54
1:M:157:LEU:CD2	1:M:205:GLN:HB2	2.35	0.54
1:O:160:ARG:HE	1:T:558:GLN:HE22	1.55	0.54
1:Q:54:GLU:HB2	1:l:52:ILE:CD1	2.37	0.54
1:S:558:GLN:HE22	1:m:160:ARG:HE	1.55	0.54
1:V:50:LEU:O	1:Y:54:GLU:N	2.40	0.54
1:f:52:ILE:O	1:p:51:ASN:HA	2.07	0.54
1:j:105:ASN:OD1	1:j:159:LEU:CD1	2.53	0.54
1:k:157:LEU:CD2	1:k:205:GLN:CB	2.85	0.54
1:n:52:ILE:CD1	1:y:54:GLU:HB2	2.37	0.54
1:0:127:THR:CG2	1:U:551:THR:C	2.81	0.54
1:1:552:ILE:HG12	1:u:127:THR:HA	1.87	0.54
1:3:157:LEU:CD2	1:3:205:GLN:CB	2.85	0.54
1:4:52:ILE:O	1:m:51:ASN:HA	2.07	0.54
1:6:105:ASN:OD1	1:6:159:LEU:CD1	2.53	0.54
1:A:127:THR:CG2	1:Y:551:THR:C	2.81	0.54
1:C:50:LEU:O	1:G:54:GLU:N	2.40	0.54
1:C:558:GLN:HE22	1:x:160:ARG:HE	1.55	0.54
1:D:127:THR:CG2	1:V:551:THR:C	2.81	0.54
1:F:54:GLU:N	1:y:50:LEU:O	2.40	0.54
1:K:125:THR:CG2	1:h:551:THR:CG2	2.83	0.54
1:L:160:ARG:HE	1:w:558:GLN:HE22	1.55	0.54
1:Q:54:GLU:N	1:l:50:LEU:O	2.40	0.54
1:Q:157:LEU:CD2	1:Q:205:GLN:CB	2.85	0.54
1:R:550:SER:O	1:y:125:THR:HB	2.08	0.54
1:T:160:ARG:HE	1:U:558:GLN:HE22	1.55	0.54
1:T:239:ARG:HH22	1:U:73:GLN:HE22	0.55	0.54
1:U:51:ASN:HA	1:V:52:ILE:O	2.07	0.54
1:V:51:ASN:HA	1:Y:52:ILE:O	2.07	0.54
1:W:73:GLN:HE22	1:a:239:ARG:HH22	0.55	0.54
1:W:551:THR:C	1:b:127:THR:CG2	2.81	0.54
1:W:558:GLN:HE22	1:a:160:ARG:HE	1.55	0.54
1:Z:125:THR:CG2	1:w:551:THR:CG2	2.83	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:125:THR:HB	1:w:550:SER:O	2.08	0.54
1:g:127:THR:HA	1:r:552:ILE:HG12	1.87	0.54
1:l:52:ILE:O	1:u:51:ASN:HA	2.07	0.54
1:t:157:LEU:CD1	1:t:219:ILE:HG23	2.37	0.54
1:v:157:LEU:CD2	1:v:205:GLN:CB	2.85	0.54
1:0:551:THR:CG2	1:U:125:THR:CG2	2.83	0.54
1:1:160:ARG:HE	1:y:558:GLN:HE22	1.55	0.54
1:3:127:THR:CG2	1:x:551:THR:C	2.81	0.54
1:3:244:ASN:HD21	1:P:93:GLU:CD	2.10	0.54
1:4:50:LEU:O	1:H:54:GLU:N	2.40	0.54
1:5:51:ASN:HA	1:E:52:ILE:O	2.07	0.54
1:6:52:ILE:O	1:T:51:ASN:HA	2.07	0.54
1:6:550:SER:O	1:c:125:THR:HB	2.08	0.54
1:7:160:ARG:HE	1:s:558:GLN:HE22	1.55	0.54
1:7:239:ARG:HH22	1:s:73:GLN:HE22	0.54	0.54
1:B:127:THR:CG2	1:s:551:THR:C	2.81	0.54
1:C:52:ILE:O	1:J:51:ASN:HA	2.07	0.54
1:E:50:LEU:O	1:v:54:GLU:N	2.40	0.54
1:E:51:ASN:HA	1:v:52:ILE:O	2.07	0.54
1:G:52:ILE:CD1	1:J:54:GLU:HB2	2.37	0.54
1:H:157:LEU:CD2	1:H:205:GLN:CB	2.85	0.54
1:J:558:GLN:HE22	1:c:160:ARG:HE	1.55	0.54
1:K:50:LEU:O	1:o:54:GLU:N	2.40	0.54
1:K:54:GLU:HB2	1:g:52:ILE:CD1	2.37	0.54
1:L:54:GLU:N	1:Z:50:LEU:O	2.40	0.54
1:M:127:THR:CG2	1:p:551:THR:C	2.81	0.54
1:M:551:THR:C	1:p:127:THR:CG2	2.81	0.54
1:P:127:THR:CG2	1:e:551:THR:C	2.81	0.54
1:P:157:LEU:CD1	1:P:219:ILE:HG23	2.36	0.54
1:Q:51:ASN:HA	1:u:52:ILE:O	2.07	0.54
1:Q:127:THR:CG2	1:o:551:THR:C	2.81	0.54
1:Q:551:THR:C	1:o:127:THR:CG2	2.81	0.54
1:R:551:THR:CG2	1:y:125:THR:CG2	2.83	0.54
1:W:52:ILE:O	1:q:51:ASN:HA	2.07	0.54
1:X:51:ASN:HA	1:e:52:ILE:O	2.07	0.54
1:Y:73:GLN:HE22	1:k:239:ARG:HH22	0.55	0.54
1:Z:52:ILE:O	1:c:51:ASN:HA	2.07	0.54
1:Z:54:GLU:HB2	1:c:52:ILE:CD1	2.37	0.54
1:c:157:LEU:CD2	1:c:205:GLN:CB	2.85	0.54
1:d:50:LEU:O	1:p:54:GLU:N	2.40	0.54
1:g:52:ILE:O	1:o:51:ASN:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:54:GLU:HB2	1:o:52:ILE:CD1	2.37	0.54
1:i:550:SER:O	1:n:125:THR:HB	2.08	0.54
1:m:550:SER:O	1:z:125:THR:HB	2.08	0.54
1:p:157:LEU:CD2	1:p:205:GLN:CB	2.85	0.54
1:t:157:LEU:CD2	1:t:205:GLN:CB	2.85	0.54
1:z:157:LEU:CD2	1:z:205:GLN:CB	2.85	0.54
1:O:127:THR:HB	1:U:552:ILE:HG13	1.86	0.53
1:O:550:SER:O	1:U:125:THR:HB	2.08	0.53
1:2:48:LYS:N	1:O:56:GLN:OE1	2.42	0.53
1:3:105:ASN:OD1	1:3:159:LEU:CD1	2.53	0.53
1:4:551:THR:HG22	1:O:125:THR:HG22	1.84	0.53
1:5:558:GLN:HE22	1:n:160:ARG:HE	1.55	0.53
1:6:157:LEU:CD2	1:6:205:GLN:HB2	2.35	0.53
1:6:558:GLN:HE22	1:Z:160:ARG:HE	1.55	0.53
1:7:558:GLN:HE22	1:P:160:ARG:HE	1.55	0.53
1:C:52:ILE:CD1	1:G:54:GLU:HB2	2.37	0.53
1:C:73:GLN:HE22	1:x:239:ARG:HH22	0.55	0.53
1:D:558:GLN:HE22	1:Y:160:ARG:HE	1.55	0.53
1:E:52:ILE:CD1	1:v:54:GLU:HB2	2.37	0.53
1:F:52:ILE:O	1:y:51:ASN:HA	2.07	0.53
1:H:127:THR:CG2	1:S:551:THR:C	2.81	0.53
1:H:244:ASN:HD21	1:O:93:GLU:CD	2.10	0.53
1:K:52:ILE:O	1:g:51:ASN:HA	2.07	0.53
1:M:54:GLU:N	1:j:50:LEU:O	2.40	0.53
1:M:157:LEU:CD2	1:M:205:GLN:CB	2.85	0.53
1:Q:52:ILE:CD1	1:u:54:GLU:HB2	2.37	0.53
1:S:52:ILE:O	1:k:51:ASN:HA	2.07	0.53
1:W:160:ARG:HE	1:f:558:GLN:HE22	1.55	0.53
1:X:550:SER:O	1:t:125:THR:HB	2.08	0.53
1:Y:558:GLN:HE22	1:k:160:ARG:HE	1.55	0.53
1:Z:73:GLN:HE21	1:r:239:ARG:HH21	1.49	0.53
1:Z:558:GLN:HE22	1:r:160:ARG:HE	1.55	0.53
1:g:558:GLN:HE22	1:t:160:ARG:HE	1.55	0.53
1:i:157:LEU:CD2	1:i:205:GLN:HB2	2.35	0.53
1:l:54:GLU:HB2	1:u:52:ILE:CD1	2.37	0.53
1:n:51:ASN:HA	1:y:52:ILE:O	2.07	0.53
1:n:157:LEU:CD2	1:n:205:GLN:CB	2.85	0.53
1:o:157:LEU:CD2	1:o:205:GLN:CB	2.85	0.53
1:p:157:LEU:CD2	1:p:205:GLN:HB2	2.35	0.53
1:u:558:GLN:HE22	1:z:160:ARG:HE	1.55	0.53
1:y:157:LEU:CD2	1:y:205:GLN:CB	2.85	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:157:LEU:CD1	1:z:219:ILE:HG23	2.37	0.53
1:0:105:ASN:OD1	1:0:159:LEU:CD1	2.53	0.53
1:4:127:THR:CG2	1:O:551:THR:C	2.81	0.53
1:5:125:THR:HB	1:F:550:SER:O	2.08	0.53
1:6:93:GLU:CD	1:Z:244:ASN:HD21	2.10	0.53
1:6:551:THR:C	1:c:127:THR:CG2	2.81	0.53
1:B:550:SER:O	1:s:125:THR:HB	2.08	0.53
1:C:51:ASN:HA	1:G:52:ILE:O	2.07	0.53
1:D:550:SER:O	1:V:125:THR:HB	2.08	0.53
1:E:73:GLN:HE22	1:S:239:ARG:HH22	0.55	0.53
1:G:50:LEU:O	1:J:54:GLU:N	2.40	0.53
1:G:552:ILE:HG13	1:j:127:THR:HB	1.87	0.53
1:H:105:ASN:OD1	1:H:159:LEU:CD1	2.53	0.53
1:I:56:GLN:OE1	1:P:48:LYS:N	2.42	0.53
1:J:125:THR:HB	1:L:550:SER:O	2.08	0.53
1:L:52:ILE:O	1:Z:51:ASN:HA	2.07	0.53
1:L:157:LEU:CD1	1:L:219:ILE:HG23	2.37	0.53
1:M:127:THR:HB	1:p:552:ILE:HG13	1.87	0.53
1:N:48:LYS:N	1:P:56:GLN:OE1	2.42	0.53
1:O:157:LEU:CD1	1:O:219:ILE:HG23	2.36	0.53
1:P:551:THR:C	1:e:127:THR:CG2	2.81	0.53
1:R:127:THR:CG2	1:y:551:THR:C	2.81	0.53
1:W:51:ASN:HA	1:s:52:ILE:O	2.07	0.53
1:Z:157:LEU:CD2	1:Z:205:GLN:CB	2.85	0.53
1:a:54:GLU:N	1:b:50:LEU:O	2.40	0.53
1:d:127:THR:HB	1:v:552:ILE:HG13	1.87	0.53
1:i:93:GLU:CD	1:y:244:ASN:HD21	2.10	0.53
1:i:551:THR:C	1:n:127:THR:CG2	2.81	0.53
1:0:125:THR:HB	1:U:550:SER:O	2.08	0.53
1:1:50:LEU:O	1:z:54:GLU:N	2.40	0.53
1:5:54:GLU:HB2	1:v:52:ILE:CD1	2.37	0.53
1:5:54:GLU:N	1:v:50:LEU:O	2.40	0.53
1:7:73:GLN:HE22	1:P:239:ARG:HH22	0.55	0.53
1:7:94:LYS:CA	1:P:242:SER:HB3	2.36	0.53
1:B:105:ASN:OD1	1:B:159:LEU:CD1	2.53	0.53
1:C:125:THR:HB	1:a:550:SER:O	2.08	0.53
1:C:127:THR:CG2	1:a:551:THR:C	2.81	0.53
1:C:242:SER:HB3	1:L:94:LYS:CA	2.36	0.53
1:E:125:THR:HB	1:k:550:SER:O	2.08	0.53
1:E:242:SER:HB3	1:F:94:LYS:CA	2.36	0.53
1:F:157:LEU:CD1	1:F:219:ILE:HG23	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:48:LYS:N	1:m:56:GLN:OE1	2.42	0.53
1:H:552:ILE:CG1	1:S:127:THR:CG2	2.64	0.53
1:L:50:LEU:O	1:c:54:GLU:N	2.40	0.53
1:L:239:ARG:HH22	1:w:73:GLN:HE22	0.55	0.53
1:M:105:ASN:OD1	1:M:159:LEU:CD1	2.53	0.53
1:O:48:LYS:N	1:h:56:GLN:OE1	2.42	0.53
1:R:160:ARG:HE	1:m:558:GLN:HE22	1.55	0.53
1:a:51:ASN:HA	1:x:52:ILE:O	2.07	0.53
1:d:550:SER:O	1:v:125:THR:HB	2.08	0.53
1:f:54:GLU:N	1:p:50:LEU:O	2.40	0.53
1:f:125:THR:HB	1:q:550:SER:O	2.08	0.53
1:f:550:SER:O	1:q:125:THR:HB	2.08	0.53
1:i:558:GLN:HE22	1:y:160:ARG:HE	1.55	0.53
1:s:157:LEU:CD1	1:s:219:ILE:HG23	2.37	0.53
1:3:48:LYS:N	1:X:56:GLN:OE1	2.42	0.53
1:3:125:THR:HB	1:x:550:SER:O	2.08	0.53
1:3:550:SER:O	1:x:125:THR:HB	2.08	0.53
1:4:239:ARG:HH22	1:z:73:GLN:HE22	0.55	0.53
1:A:50:LEU:O	1:k:54:GLU:N	2.40	0.53
1:A:125:THR:HB	1:Y:550:SER:O	2.08	0.53
1:A:558:GLN:HE22	1:U:160:ARG:HE	1.55	0.53
1:B:125:THR:HB	1:s:550:SER:O	2.08	0.53
1:D:54:GLU:N	1:M:50:LEU:O	2.40	0.53
1:D:56:GLN:OE1	1:M:48:LYS:N	2.42	0.53
1:D:125:THR:HB	1:V:550:SER:O	2.08	0.53
1:D:160:ARG:HE	1:p:558:GLN:HE22	1.55	0.53
1:D:551:THR:C	1:V:127:THR:CG2	2.81	0.53
1:F:50:LEU:O	1:n:54:GLU:N	2.40	0.53
1:H:125:THR:HB	1:S:550:SER:O	2.08	0.53
1:H:550:SER:O	1:S:125:THR:HB	2.08	0.53
1:M:204:THR:OG1	1:j:55:TRP:O	2.20	0.53
1:N:52:ILE:CD1	1:P:54:GLU:HB2	2.37	0.53
1:O:157:LEU:CD2	1:O:205:GLN:CB	2.85	0.53
1:P:157:LEU:CD2	1:P:205:GLN:CB	2.85	0.53
1:S:54:GLU:N	1:k:50:LEU:O	2.40	0.53
1:U:50:LEU:O	1:V:54:GLU:N	2.40	0.53
1:U:52:ILE:O	1:Y:51:ASN:HA	2.07	0.53
1:U:54:GLU:HB2	1:Y:52:ILE:CD1	2.37	0.53
1:U:157:LEU:CD1	1:U:219:ILE:HG23	2.37	0.53
1:V:48:LYS:N	1:Y:56:GLN:OE1	2.42	0.53
1:W:52:ILE:CD1	1:s:54:GLU:HB2	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:THR:CG2	1:b:551:THR:C	2.81	0.53
1:X:125:THR:HB	1:t:550:SER:O	2.08	0.53
1:Z:127:THR:CG2	1:w:551:THR:C	2.80	0.53
1:e:239:ARG:HH22	1:t:73:GLN:HE22	0.55	0.53
1:f:551:THR:C	1:q:127:THR:CG2	2.81	0.53
1:l:94:LYS:CA	1:l:242:SER:HB3	2.36	0.53
1:4:551:THR:C	1:O:127:THR:CG2	2.81	0.53
1:5:551:THR:C	1:F:127:THR:CG2	2.81	0.53
1:B:127:THR:HB	1:s:552:ILE:HG13	1.86	0.53
1:C:94:LYS:CA	1:x:242:SER:HB3	2.36	0.53
1:C:551:THR:C	1:a:127:THR:CG2	2.81	0.53
1:D:157:LEU:CD2	1:D:205:GLN:CB	2.85	0.53
1:E:127:THR:CG2	1:k:551:THR:C	2.81	0.53
1:E:551:THR:C	1:k:127:THR:CG2	2.81	0.53
1:F:239:ARG:HH22	1:R:73:GLN:HE22	0.55	0.53
1:F:239:ARG:HH21	1:R:73:GLN:HE21	1.49	0.53
1:G:125:THR:HB	1:j:550:SER:O	2.08	0.53
1:I:48:LYS:N	1:N:56:GLN:OE1	2.42	0.53
1:I:125:THR:CG2	1:l:551:THR:CG2	2.83	0.53
1:J:551:THR:C	1:L:127:THR:CG2	2.81	0.53
1:L:239:ARG:HH21	1:w:73:GLN:HE21	1.49	0.53
1:M:550:SER:O	1:p:125:THR:HB	2.08	0.53
1:N:55:TRP:HH2	1:P:208:SER:HB3	1.67	0.53
1:O:239:ARG:HH22	1:T:73:GLN:HE22	0.55	0.53
1:R:239:ARG:HH22	1:m:73:GLN:HE22	0.55	0.53
1:R:551:THR:C	1:y:127:THR:CG2	2.81	0.53
1:W:56:GLN:OE1	1:q:48:LYS:N	2.42	0.53
1:X:558:GLN:HE22	1:w:160:ARG:HE	1.55	0.53
1:Z:56:GLN:OE1	1:c:48:LYS:N	2.42	0.53
1:Z:551:THR:C	1:w:127:THR:CG2	2.81	0.53
1:a:50:LEU:O	1:x:54:GLU:N	2.40	0.53
1:f:56:GLN:OE1	1:p:48:LYS:N	2.42	0.53
1:f:157:LEU:CD2	1:f:205:GLN:CB	2.85	0.53
1:m:125:THR:HB	1:z:550:SER:O	2.08	0.53
1:n:48:LYS:N	1:y:56:GLN:OE1	2.42	0.53
1:p:105:ASN:OD1	1:p:159:LEU:CD1	2.53	0.53
1:q:54:GLU:N	1:s:50:LEU:O	2.40	0.53
1:r:50:LEU:O	1:t:54:GLU:N	2.40	0.53
1:2:52:ILE:CD1	1:O:54:GLU:HB2	2.37	0.53
1:2:56:GLN:OE1	1:h:48:LYS:N	2.42	0.53
1:3:552:ILE:CG1	1:x:127:THR:CG2	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:558:GLN:HE22	1:b:160:ARG:HE	1.55	0.53
1:6:551:THR:CG2	1:c:125:THR:CG2	2.83	0.53
1:A:551:THR:C	1:Y:127:THR:CG2	2.81	0.53
1:M:125:THR:HB	1:p:550:SER:O	2.08	0.53
1:M:552:ILE:HG13	1:p:127:THR:HB	1.87	0.53
1:M:558:GLN:HE22	1:f:160:ARG:HE	1.55	0.53
1:O:242:SER:HB3	1:T:94:LYS:CA	2.36	0.53
1:W:550:SER:O	1:b:125:THR:HB	2.08	0.53
1:X:73:GLN:HE22	1:w:239:ARG:HH22	0.55	0.53
1:X:551:THR:C	1:t:127:THR:CG2	2.81	0.53
1:m:551:THR:C	1:z:127:THR:CG2	2.81	0.53
1:o:558:GLN:HE22	1:u:160:ARG:HE	1.55	0.53
1:u:105:ASN:OD1	1:u:159:LEU:CD1	2.53	0.53
1:2:50:LEU:O	1:O:54:GLU:N	2.40	0.53
1:4:56:GLN:OE1	1:m:48:LYS:N	2.42	0.53
1:G:157:LEU:CD1	1:G:219:ILE:HG23	2.37	0.53
1:H:125:THR:HG22	1:S:551:THR:HG22	1.84	0.53
1:I:127:THR:CG2	1:l:551:THR:C	2.81	0.53
1:K:157:LEU:CD1	1:K:219:ILE:HG23	2.37	0.53
1:K:242:SER:HB3	1:r:94:LYS:CA	2.36	0.53
1:L:242:SER:HB3	1:w:94:LYS:CA	2.36	0.53
1:N:160:ARG:HE	1:l:558:GLN:HE22	1.55	0.53
1:X:50:LEU:O	1:e:54:GLU:N	2.40	0.53
1:X:242:SER:HB3	1:x:94:LYS:CA	2.36	0.53
1:b:558:GLN:HE22	1:s:160:ARG:HE	1.55	0.53
1:g:105:ASN:OD1	1:g:159:LEU:CD1	2.53	0.53
1:l:157:LEU:CD1	1:l:219:ILE:HG23	2.37	0.53
1:m:127:THR:CG2	1:z:552:ILE:CG1	2.64	0.53
1:2:160:ARG:HE	1:K:558:GLN:HE22	1.55	0.53
1:3:239:ARG:HH22	1:P:73:GLN:HE22	0.55	0.53
1:4:54:GLU:N	1:m:50:LEU:O	2.40	0.53
1:4:550:SER:O	1:O:125:THR:HB	2.08	0.53
1:A:160:ARG:HE	1:H:558:GLN:HE22	1.55	0.53
1:C:48:LYS:N	1:G:56:GLN:OE1	2.42	0.53
1:E:48:LYS:N	1:v:56:GLN:OE1	2.42	0.53
1:E:94:LYS:CA	1:S:242:SER:HB3	2.36	0.53
1:K:55:TRP:O	1:o:204:THR:OG1	2.20	0.53
1:K:551:THR:CG2	1:h:125:THR:CG2	2.83	0.53
1:N:50:LEU:O	1:P:54:GLU:N	2.40	0.53
1:X:48:LYS:N	1:e:56:GLN:OE1	2.42	0.53
1:d:55:TRP:O	1:p:204:THR:OG1	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:105:ASN:OD1	1:w:159:LEU:CD1	2.53	0.53
1:4:157:LEU:CD2	1:4:205:GLN:HB2	2.35	0.53
1:F:48:LYS:N	1:n:56:GLN:OE1	2.42	0.53
1:F:242:SER:HB3	1:R:94:LYS:CA	2.36	0.53
1:H:239:ARG:HH22	1:O:73:GLN:HE22	0.55	0.53
1:K:127:THR:HA	1:h:552:ILE:HG12	1.87	0.53
1:L:48:LYS:N	1:c:56:GLN:OE1	2.42	0.53
1:M:190:LYS:NZ	1:f:190:LYS:HD3	2.20	0.53
1:Q:558:GLN:HE22	1:g:160:ARG:HE	1.55	0.53
1:S:94:LYS:CA	1:m:242:SER:HB3	2.36	0.53
1:Z:157:LEU:CD1	1:Z:219:ILE:HG23	2.37	0.53
1:f:552:ILE:HG12	1:q:127:THR:HA	1.87	0.53
1:i:157:LEU:CD1	1:i:219:ILE:HG23	2.36	0.53
1:i:551:THR:CG2	1:n:125:THR:CG2	2.83	0.53
1:v:157:LEU:CD1	1:v:219:ILE:HG23	2.37	0.53
1:2:55:TRP:HH2	1:O:208:SER:HB3	1.67	0.53
1:3:54:GLU:HB2	1:e:52:ILE:CD1	2.37	0.53
1:4:52:ILE:CD1	1:H:54:GLU:HB2	2.37	0.53
1:5:73:GLN:HE22	1:n:239:ARG:HH22	0.55	0.53
1:6:157:LEU:CD1	1:6:219:ILE:HG23	2.36	0.53
1:7:125:THR:HB	1:N:550:SER:O	2.08	0.53
1:7:157:LEU:CD1	1:7:219:ILE:HG23	2.37	0.53
1:7:561:TYR:CE2	1:P:219:ILE:HD11	2.45	0.53
1:D:50:LEU:O	1:j:54:GLU:N	2.40	0.53
1:D:73:GLN:HE22	1:Y:239:ARG:HH22	0.55	0.53
1:K:55:TRP:HH2	1:o:208:SER:HB3	1.67	0.53
1:K:551:THR:C	1:h:127:THR:CG2	2.81	0.53
1:P:125:THR:HB	1:e:550:SER:O	2.08	0.53
1:R:54:GLU:N	1:z:50:LEU:O	2.40	0.53
1:R:105:ASN:OD1	1:R:159:LEU:CD1	2.53	0.53
1:W:239:ARG:HH22	1:f:73:GLN:HE22	0.55	0.53
1:W:561:TYR:HD1	1:a:157:LEU:CG	2.22	0.53
1:Y:561:TYR:HD1	1:k:157:LEU:CG	2.22	0.53
1:a:52:ILE:CD1	1:x:54:GLU:HB2	2.37	0.53
1:d:54:GLU:N	1:f:50:LEU:O	2.40	0.53
1:t:50:LEU:O	1:w:54:GLU:N	2.40	0.53
1:0:54:GLU:N	1:6:50:LEU:O	2.40	0.52
1:5:561:TYR:CE2	1:n:219:ILE:HD11	2.44	0.52
1:C:550:SER:O	1:a:125:THR:HB	2.08	0.52
1:D:552:ILE:HG12	1:V:127:THR:HA	1.87	0.52
1:F:219:ILE:HD11	1:R:561:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:125:THR:HB	1:I:550:SER:O	2.08	0.52
1:J:73:GLN:HE22	1:C:239:ARG:HH22	0.55	0.52
1:J:127:THR:CG2	1:L:552:ILE:CG1	2.63	0.52
1:J:561:TYR:CE2	1:C:219:ILE:HD11	2.44	0.52
1:O:219:ILE:HD11	1:T:561:TYR:CE2	2.45	0.52
1:Q:94:LYS:CA	1:G:242:SER:HB3	2.36	0.52
1:S:561:TYR:CE2	1:M:219:ILE:HD11	2.45	0.52
1:X:219:ILE:HD11	1:X:561:TYR:CE2	2.45	0.52
1:b:54:GLU:HB2	1:x:52:ILE:CD1	2.37	0.52
1:d:160:ARG:HE	1:q:558:GLN:HE22	1.55	0.52
1:g:56:GLN:OE1	1:o:48:LYS:N	2.42	0.52
1:g:561:TYR:CE2	1:t:219:ILE:HD11	2.45	0.52
1:i:127:THR:HA	1:n:552:ILE:HG12	1.87	0.52
1:i:561:TYR:HD1	1:y:157:LEU:CG	2.23	0.52
1:o:94:LYS:CA	1:u:242:SER:HB3	2.36	0.52
1:u:561:TYR:CE2	1:z:219:ILE:HD11	2.45	0.52
1:2:550:SER:O	1:T:125:THR:HB	2.08	0.52
1:3:219:ILE:HD11	1:P:561:TYR:CE2	2.44	0.52
1:6:561:TYR:HD1	1:Z:157:LEU:CG	2.23	0.52
1:7:54:GLU:N	1:B:50:LEU:O	2.40	0.52
1:A:239:ARG:HH22	1:H:73:GLN:HE22	0.55	0.52
1:E:550:SER:O	1:k:125:THR:HB	2.08	0.52
1:G:48:LYS:N	1:J:56:GLN:OE1	2.42	0.52
1:H:219:ILE:HD11	1:O:561:TYR:CE2	2.44	0.52
1:I:50:LEU:O	1:N:54:GLU:N	2.40	0.52
1:L:219:ILE:HD11	1:w:561:TYR:CE2	2.45	0.52
1:N:239:ARG:HH22	1:l:73:GLN:HE22	0.55	0.52
1:Q:73:GLN:HE22	1:g:239:ARG:HH22	0.55	0.52
1:S:54:GLU:HB2	1:k:52:ILE:CD1	2.37	0.52
1:T:157:LEU:CD1	1:T:219:ILE:HG23	2.37	0.52
1:V:157:LEU:CD2	1:V:205:GLN:HB2	2.35	0.52
1:V:561:TYR:CE2	1:j:219:ILE:HD11	2.45	0.52
1:X:157:LEU:CD1	1:X:219:ILE:HG23	2.37	0.52
1:d:48:LYS:N	1:p:56:GLN:OE1	2.42	0.52
1:g:550:SER:O	1:r:125:THR:HB	2.08	0.52
1:q:56:GLN:OE1	1:s:48:LYS:N	2.42	0.52
1:0:48:LYS:N	1:T:56:GLN:OE1	2.42	0.52
1:0:125:THR:HG23	1:U:549:MET:HG2	1.91	0.52
1:1:52:ILE:C	1:R:52:ILE:HG12	2.35	0.52
1:2:55:TRP:HZ3	1:O:208:SER:N	2.08	0.52
1:2:239:ARG:HH22	1:K:73:GLN:HE22	0.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:73:GLN:HE22	1:b:239:ARG:HH22	0.55	0.52
1:5:52:ILE:C	1:v:52:ILE:HG12	2.35	0.52
1:5:56:GLN:OE1	1:v:48:LYS:N	2.42	0.52
1:5:208:SER:N	1:v:55:TRP:HZ3	2.08	0.52
1:6:52:ILE:C	1:T:52:ILE:HG12	2.35	0.52
1:6:127:THR:HA	1:c:552:ILE:HG12	1.87	0.52
1:7:127:THR:HA	1:N:552:ILE:HG12	1.87	0.52
1:B:54:GLU:N	1:i:50:LEU:O	2.40	0.52
1:E:239:ARG:HH21	1:F:73:GLN:HE21	1.49	0.52
1:E:549:MET:HG2	1:k:125:THR:HG23	1.91	0.52
1:G:55:TRP:HZ3	1:J:208:SER:N	2.08	0.52
1:H:190:LYS:HD3	1:O:190:LYS:NZ	2.20	0.52
1:I:552:ILE:HG12	1:l:127:THR:HA	1.87	0.52
1:K:219:ILE:HD11	1:r:561:TYR:CE2	2.45	0.52
1:K:550:SER:O	1:h:125:THR:HB	2.08	0.52
1:M:73:GLN:HE22	1:f:239:ARG:HH22	0.55	0.52
1:N:561:TYR:CE2	1:i:219:ILE:HD11	2.44	0.52
1:Q:48:LYS:N	1:u:56:GLN:OE1	2.42	0.52
1:Q:52:ILE:HG12	1:u:52:ILE:C	2.35	0.52
1:Q:157:LEU:CD1	1:Q:219:ILE:HG23	2.36	0.52
1:R:552:ILE:HG12	1:y:127:THR:HA	1.87	0.52
1:U:48:LYS:N	1:V:56:GLN:OE1	2.42	0.52
1:V:558:GLN:HE22	1:j:160:ARG:HE	1.55	0.52
1:X:127:THR:CG2	1:t:552:ILE:CG1	2.64	0.52
1:c:105:ASN:OD1	1:c:159:LEU:CD1	2.53	0.52
1:d:219:ILE:HD11	1:q:561:TYR:CE2	2.45	0.52
1:e:157:LEU:CD2	1:e:205:GLN:HB2	2.35	0.52
1:g:52:ILE:C	1:o:52:ILE:HG12	2.35	0.52
1:m:125:THR:HG23	1:z:549:MET:HG2	1.92	0.52
1:n:55:TRP:HZ3	1:y:208:SER:N	2.08	0.52
1:o:73:GLN:HE22	1:u:239:ARG:HH22	0.55	0.52
1:0:50:LEU:O	1:T:54:GLU:N	2.40	0.52
1:0:52:ILE:HG12	1:T:52:ILE:C	2.35	0.52
1:0:157:LEU:CD1	1:0:219:ILE:HG23	2.37	0.52
1:0:208:SER:N	1:6:55:TRP:HZ3	2.08	0.52
1:0:219:ILE:HD11	1:c:561:TYR:CE2	2.45	0.52
1:1:125:THR:HB	1:u:550:SER:O	2.08	0.52
1:1:561:TYR:CE2	1:l:219:ILE:HD11	2.45	0.52
1:2:54:GLU:N	1:h:50:LEU:O	2.40	0.52
1:2:73:GLN:HE22	1:6:239:ARG:HH22	0.55	0.52
1:2:125:THR:HB	1:T:550:SER:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:125:THR:HG23	1:T:549:MET:HG2	1.92	0.52
1:2:561:TYR:CE2	1:6:219:ILE:HD11	2.44	0.52
1:3:52:ILE:CD1	1:X:54:GLU:HB2	2.37	0.52
1:3:208:SER:N	1:e:55:TRP:HZ3	2.08	0.52
1:4:55:TRP:HZ3	1:H:208:SER:N	2.08	0.52
1:5:48:LYS:N	1:E:56:GLN:OE1	2.42	0.52
1:7:52:ILE:HG12	1:i:52:ILE:C	2.35	0.52
1:7:52:ILE:C	1:B:52:ILE:HG12	2.35	0.52
1:7:56:GLN:OE1	1:B:48:LYS:N	2.42	0.52
1:7:549:MET:HG2	1:N:125:THR:HG23	1.92	0.52
1:A:52:ILE:HG12	1:k:52:ILE:C	2.35	0.52
1:A:54:GLU:HB2	1:S:52:ILE:CD1	2.37	0.52
1:B:125:THR:HG23	1:s:549:MET:HG2	1.92	0.52
1:B:219:ILE:HD11	1:n:561:TYR:CE2	2.45	0.52
1:C:56:GLN:OE1	1:J:48:LYS:N	2.42	0.52
1:C:551:THR:CG2	1:a:125:THR:CG2	2.83	0.52
1:C:561:TYR:CE2	1:x:219:ILE:HD11	2.44	0.52
1:D:239:ARG:HH22	1:p:73:GLN:HE22	0.55	0.52
1:F:208:SER:N	1:y:55:TRP:HZ3	2.08	0.52
1:G:52:ILE:HG12	1:J:52:ILE:C	2.35	0.52
1:I:125:THR:HG23	1:l:549:MET:HG2	1.92	0.52
1:K:549:MET:HG2	1:h:125:THR:HG23	1.92	0.52
1:L:208:SER:N	1:Z:55:TRP:HZ3	2.08	0.52
1:M:56:GLN:OE1	1:j:48:LYS:N	2.42	0.52
1:N:55:TRP:HZ3	1:P:208:SER:N	2.08	0.52
1:Q:125:THR:HG21	1:o:550:SER:CA	2.40	0.52
1:Q:208:SER:N	1:l:55:TRP:HZ3	2.08	0.52
1:R:52:ILE:C	1:z:52:ILE:HG12	2.35	0.52
1:U:55:TRP:HZ3	1:V:208:SER:N	2.08	0.52
1:W:550:SER:CA	1:b:125:THR:HG21	2.40	0.52
1:X:125:THR:HG23	1:t:549:MET:HG2	1.92	0.52
1:Z:73:GLN:HE22	1:r:239:ARG:HH22	0.55	0.52
1:Z:208:SER:N	1:c:55:TRP:HZ3	2.08	0.52
1:Z:550:SER:O	1:w:125:THR:HB	2.08	0.52
1:a:48:LYS:N	1:x:56:GLN:OE1	2.42	0.52
1:a:52:ILE:C	1:b:52:ILE:HG12	2.35	0.52
1:d:208:SER:HB3	1:f:55:TRP:HH2	1.67	0.52
1:d:549:MET:HG2	1:v:125:THR:HG23	1.92	0.52
1:f:52:ILE:C	1:p:52:ILE:HG12	2.35	0.52
1:m:157:LEU:CD1	1:m:219:ILE:HG23	2.37	0.52
1:q:208:SER:N	1:s:55:TRP:HZ3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:52:ILE:C	1:w:52:ILE:HG12	2.35	0.52
1:t:52:ILE:HG12	1:w:52:ILE:C	2.35	0.52
1:0:159:LEU:HD13	1:0:220:PRO:CG	2.40	0.52
1:1:239:ARG:HH22	1:y:73:GLN:HE22	0.55	0.52
1:2:125:THR:HG21	1:T:550:SER:CA	2.40	0.52
1:2:552:ILE:HG12	1:T:127:THR:HA	1.87	0.52
1:4:52:ILE:C	1:m:52:ILE:HG12	2.35	0.52
1:4:125:THR:HB	1:O:550:SER:O	2.08	0.52
1:5:52:ILE:HG12	1:E:52:ILE:C	2.35	0.52
1:6:56:GLN:OE1	1:T:48:LYS:N	2.42	0.52
1:6:159:LEU:HD13	1:6:220:PRO:CG	2.40	0.52
1:6:561:TYR:CE2	1:Z:219:ILE:HD11	2.45	0.52
1:7:48:LYS:N	1:i:56:GLN:OE1	2.42	0.52
1:7:208:SER:N	1:B:55:TRP:HZ3	2.08	0.52
1:A:125:THR:HG21	1:Y:550:SER:CA	2.40	0.52
1:B:159:LEU:HD13	1:B:220:PRO:CG	2.40	0.52
1:B:239:ARG:HH22	1:n:73:GLN:HE22	0.55	0.52
1:B:561:TYR:CE2	1:q:219:ILE:HD11	2.45	0.52
1:C:52:ILE:C	1:J:52:ILE:HG12	2.35	0.52
1:C:549:MET:HG2	1:a:125:THR:HG23	1.92	0.52
1:D:52:ILE:C	1:M:52:ILE:HG12	2.35	0.52
1:E:561:TYR:CE2	1:S:219:ILE:HD11	2.44	0.52
1:G:125:THR:HG23	1:j:549:MET:HG2	1.92	0.52
1:H:52:ILE:CD1	1:m:54:GLU:HB2	2.37	0.52
1:I:55:TRP:HZ3	1:N:208:SER:N	2.08	0.52
1:K:54:GLU:N	1:g:50:LEU:O	2.40	0.52
1:K:55:TRP:HZ3	1:o:208:SER:N	2.08	0.52
1:Q:208:SER:HB3	1:l:55:TRP:HH2	1.67	0.52
1:Q:550:SER:CA	1:o:125:THR:HG21	2.40	0.52
1:Q:561:TYR:CE2	1:g:219:ILE:HD11	2.45	0.52
1:R:125:THR:HB	1:y:550:SER:O	2.08	0.52
1:S:56:GLN:OE1	1:k:48:LYS:N	2.42	0.52
1:T:219:ILE:HD11	1:U:561:TYR:CE2	2.45	0.52
1:W:55:TRP:HZ3	1:s:208:SER:N	2.08	0.52
1:X:52:ILE:HG12	1:e:52:ILE:C	2.35	0.52
1:X:52:ILE:CD1	1:e:54:GLU:HB2	2.37	0.52
1:b:54:GLU:N	1:x:50:LEU:O	2.40	0.52
1:d:159:LEU:HD13	1:d:220:PRO:CG	2.40	0.52
1:i:159:LEU:HD13	1:i:220:PRO:CG	2.40	0.52
1:i:561:TYR:CE2	1:y:219:ILE:HD11	2.45	0.52
1:l:54:GLU:N	1:u:50:LEU:O	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:157:LEU:CD2	1:q:205:GLN:HB2	2.35	0.52
1:x:157:LEU:CD1	1:x:219:ILE:HG23	2.36	0.52
1:0:52:ILE:C	1:6:52:ILE:HG12	2.35	0.52
1:0:55:TRP:HZ3	1:T:208:SER:N	2.08	0.52
1:0:239:ARG:HH22	1:c:73:GLN:HE22	0.54	0.52
1:0:561:TYR:CE2	1:V:219:ILE:HD11	2.45	0.52
1:1:125:THR:HG23	1:u:549:MET:HG2	1.92	0.52
1:2:208:SER:N	1:h:55:TRP:HZ3	2.08	0.52
1:3:55:TRP:HZ3	1:X:208:SER:N	2.08	0.52
1:3:125:THR:HG21	1:x:550:SER:CA	2.40	0.52
1:3:190:LYS:HD3	1:P:190:LYS:NZ	2.20	0.52
1:4:125:THR:HG23	1:O:549:MET:HG2	1.92	0.52
1:5:127:THR:HA	1:F:552:ILE:HG12	1.87	0.52
1:5:550:SER:CA	1:F:125:THR:HG21	2.40	0.52
1:7:219:ILE:HD11	1:s:561:TYR:CE2	2.45	0.52
1:7:550:SER:O	1:N:125:THR:HB	2.09	0.52
1:A:54:GLU:N	1:S:50:LEU:O	2.40	0.52
1:A:56:GLN:OE1	1:S:48:LYS:N	2.42	0.52
1:A:549:MET:HG2	1:Y:125:THR:HG23	1.92	0.52
1:B:52:ILE:C	1:i:52:ILE:HG12	2.35	0.52
1:B:157:LEU:CD1	1:B:219:ILE:HG23	2.37	0.52
1:B:208:SER:N	1:i:55:TRP:HZ3	2.08	0.52
1:C:127:THR:HA	1:a:552:ILE:HG12	1.87	0.52
1:C:157:LEU:CD1	1:C:219:ILE:HG23	2.37	0.52
1:C:239:ARG:HH21	1:L:73:GLN:HE21	1.49	0.52
1:E:551:THR:CG2	1:k:125:THR:CG2	2.83	0.52
1:G:159:LEU:HD13	1:G:220:PRO:CG	2.40	0.52
1:H:125:THR:HG21	1:S:550:SER:CA	2.40	0.52
1:I:52:ILE:HG12	1:N:52:ILE:C	2.35	0.52
1:I:54:GLU:N	1:P:50:LEU:O	2.40	0.52
1:I:219:ILE:HD11	1:e:561:TYR:CE2	2.45	0.52
1:I:550:SER:O	1:l:125:THR:HB	2.08	0.52
1:K:52:ILE:C	1:g:52:ILE:HG12	2.35	0.52
1:L:157:LEU:CD2	1:L:205:GLN:HB2	2.35	0.52
1:N:73:GLN:HE22	1:i:239:ARG:HH22	0.55	0.52
1:P:550:SER:O	1:e:125:THR:HB	2.08	0.52
1:Q:125:THR:HG23	1:o:549:MET:HG2	1.92	0.52
1:Q:549:MET:HG2	1:o:125:THR:HG23	1.91	0.52
1:R:550:SER:CA	1:y:125:THR:HG21	2.40	0.52
1:S:208:SER:N	1:k:55:TRP:HZ3	2.08	0.52
1:U:208:SER:N	1:Y:55:TRP:HZ3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:73:GLN:HE22	1:j:239:ARG:HH22	0.55	0.52
1:W:55:TRP:O	1:s:204:THR:OG1	2.20	0.52
1:W:549:MET:HG2	1:b:125:THR:HG23	1.92	0.52
1:Z:127:THR:HA	1:w:552:ILE:HG12	1.87	0.52
1:a:55:TRP:HZ3	1:x:208:SER:N	2.08	0.52
1:b:56:GLN:OE1	1:x:48:LYS:N	2.42	0.52
1:d:208:SER:N	1:f:55:TRP:HZ3	2.08	0.52
1:e:157:LEU:CD1	1:e:219:ILE:HG23	2.37	0.52
1:g:54:GLU:N	1:o:50:LEU:O	2.40	0.52
1:g:549:MET:HG2	1:r:125:THR:HG23	1.92	0.52
1:j:159:LEU:HD13	1:j:220:PRO:CG	2.40	0.52
1:l:52:ILE:C	1:u:52:ILE:HG12	2.35	0.52
1:n:105:ASN:OD1	1:n:159:LEU:CD1	2.53	0.52
1:o:157:LEU:CD1	1:o:219:ILE:HG23	2.37	0.52
1:o:561:TYR:CE2	1:u:219:ILE:HD11	2.45	0.52
1:1:550:SER:O	1:u:125:THR:HB	2.08	0.52
1:1:552:ILE:CG1	1:u:127:THR:CG2	2.64	0.52
1:3:56:GLN:OE1	1:e:48:LYS:N	2.42	0.52
1:4:561:TYR:CE2	1:h:219:ILE:HD11	2.45	0.52
1:5:127:THR:CG2	1:F:552:ILE:CG1	2.63	0.52
1:6:73:GLN:HE22	1:Z:239:ARG:HH22	0.55	0.52
1:7:550:SER:CA	1:N:125:THR:HG21	2.40	0.52
1:A:73:GLN:HE22	1:U:239:ARG:HH22	0.55	0.52
1:A:125:THR:HG23	1:Y:549:MET:HG2	1.92	0.52
1:B:56:GLN:OE1	1:i:48:LYS:N	2.42	0.52
1:B:125:THR:HG21	1:s:550:SER:CA	2.40	0.52
1:C:54:GLU:HB2	1:J:52:ILE:CD1	2.37	0.52
1:C:125:THR:HG21	1:a:550:SER:CA	2.40	0.52
1:D:48:LYS:N	1:j:56:GLN:OE1	2.42	0.52
1:D:55:TRP:HH2	1:j:208:SER:HB3	1.67	0.52
1:D:55:TRP:HZ3	1:j:208:SER:N	2.08	0.52
1:D:159:LEU:HD13	1:D:220:PRO:CG	2.40	0.52
1:E:125:THR:HG21	1:k:550:SER:CA	2.40	0.52
1:E:127:THR:HA	1:k:552:ILE:HG12	1.87	0.52
1:E:219:ILE:HD11	1:F:561:TYR:CE2	2.45	0.52
1:F:159:LEU:HD13	1:F:220:PRO:CG	2.40	0.52
1:G:190:LYS:HD3	1:a:190:LYS:NZ	2.20	0.52
1:G:550:SER:O	1:j:125:THR:HB	2.08	0.52
1:H:55:TRP:HZ3	1:m:208:SER:N	2.08	0.52
1:J:550:SER:CA	1:L:125:THR:HG21	2.40	0.52
1:M:125:THR:HG21	1:p:550:SER:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:549:MET:HG2	1:e:125:THR:HG23	1.92	0.52
1:R:125:THR:HG21	1:y:550:SER:CA	2.40	0.52
1:W:125:THR:HG23	1:b:549:MET:HG2	1.92	0.52
1:W:219:ILE:HD11	1:f:561:TYR:CE2	2.45	0.52
1:Z:125:THR:HG21	1:w:550:SER:CA	2.40	0.52
1:d:125:THR:HB	1:v:550:SER:O	2.08	0.52
1:v:159:LEU:HD13	1:v:220:PRO:CG	2.40	0.52
1:O:56:GLN:OE1	1:6:48:LYS:N	2.42	0.52
1:O:125:THR:HG21	1:U:550:SER:CA	2.40	0.52
1:1:52:ILE:HG12	1:z:52:ILE:C	2.35	0.52
1:1:73:GLN:HE22	1:l:239:ARG:HH22	0.55	0.52
1:4:48:LYS:N	1:H:56:GLN:OE1	2.42	0.52
1:4:54:GLU:HB2	1:m:52:ILE:CD1	2.37	0.52
1:4:157:LEU:CD1	1:4:219:ILE:HG23	2.37	0.52
1:4:219:ILE:HD11	1:z:561:TYR:CE2	2.45	0.52
1:5:125:THR:HG23	1:F:549:MET:HG2	1.92	0.52
1:C:55:TRP:HZ3	1:G:208:SER:N	2.08	0.52
1:C:219:ILE:HD11	1:L:561:TYR:CE2	2.45	0.52
1:C:550:SER:CA	1:a:125:THR:HG21	2.40	0.52
1:D:52:ILE:HG12	1:j:52:ILE:C	2.35	0.52
1:D:561:TYR:CE2	1:Y:219:ILE:HD11	2.45	0.52
1:E:550:SER:CA	1:k:125:THR:HG21	2.40	0.52
1:H:159:LEU:HD13	1:H:220:PRO:CG	2.40	0.52
1:J:125:THR:HG23	1:L:549:MET:HG2	1.92	0.52
1:K:125:THR:HB	1:h:550:SER:O	2.08	0.52
1:L:159:LEU:HD13	1:L:220:PRO:CG	2.40	0.52
1:M:208:SER:N	1:j:55:TRP:HZ3	2.08	0.52
1:M:550:SER:CA	1:p:125:THR:HG21	2.40	0.52
1:P:550:SER:CA	1:e:125:THR:HG21	2.40	0.52
1:Q:50:LEU:O	1:u:54:GLU:N	2.40	0.52
1:Q:125:THR:HB	1:o:550:SER:O	2.08	0.52
1:R:56:GLN:OE1	1:z:48:LYS:N	2.42	0.52
1:S:157:LEU:CD1	1:S:219:ILE:HG23	2.36	0.52
1:U:52:ILE:C	1:Y:52:ILE:HG12	2.35	0.52
1:W:52:ILE:HG12	1:s:52:ILE:C	2.35	0.52
1:W:125:THR:HB	1:b:550:SER:O	2.08	0.52
1:Z:550:SER:CA	1:w:125:THR:HG21	2.40	0.52
1:b:73:GLN:HE22	1:s:239:ARG:HH22	0.55	0.52
1:d:55:TRP:HZ3	1:p:208:SER:N	2.08	0.52
1:f:157:LEU:CD1	1:f:219:ILE:HG23	2.37	0.52
1:f:159:LEU:HD13	1:f:220:PRO:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:561:TYR:CE2	1:v:219:ILE:HD11	2.45	0.52
1:l:208:SER:N	1:u:55:TRP:HZ3	2.08	0.52
1:r:52:ILE:HG12	1:t:52:ILE:C	2.35	0.52
1:1:549:MET:HG2	1:u:125:THR:HG23	1.91	0.52
1:2:52:ILE:C	1:h:52:ILE:HG12	2.35	0.52
1:3:159:LEU:HD13	1:3:220:PRO:CG	2.40	0.52
1:4:125:THR:HG21	1:O:550:SER:CA	2.40	0.52
1:5:52:ILE:CD1	1:E:54:GLU:HB2	2.37	0.52
1:7:552:ILE:HG12	1:N:127:THR:HA	1.87	0.52
1:A:190:LYS:HD3	1:H:190:LYS:NZ	2.20	0.52
1:A:550:SER:O	1:Y:125:THR:HB	2.08	0.52
1:D:157:LEU:CD1	1:D:219:ILE:HG23	2.37	0.52
1:D:190:LYS:NZ	1:Y:190:LYS:HD3	2.20	0.52
1:E:55:TRP:HZ3	1:v:208:SER:N	2.08	0.52
1:E:157:LEU:CD1	1:E:219:ILE:HG23	2.37	0.52
1:F:157:LEU:CD2	1:F:205:GLN:HB2	2.35	0.52
1:G:219:ILE:HD11	1:a:561:TYR:CE2	2.45	0.52
1:K:125:THR:HG21	1:h:550:SER:CA	2.40	0.52
1:O:50:LEU:O	1:h:54:GLU:N	2.40	0.52
1:Q:55:TRP:HZ3	1:u:208:SER:N	2.08	0.52
1:Q:550:SER:O	1:o:125:THR:HB	2.08	0.52
1:R:208:SER:N	1:z:55:TRP:HZ3	2.08	0.52
1:W:190:LYS:HD3	1:f:190:LYS:NZ	2.20	0.52
1:Y:190:LYS:NZ	1:k:190:LYS:HD3	2.20	0.52
1:d:52:ILE:C	1:f:52:ILE:HG12	2.35	0.52
1:d:56:GLN:OE1	1:f:48:LYS:N	2.42	0.52
1:d:157:LEU:CD1	1:d:219:ILE:HG23	2.37	0.52
1:d:239:ARG:HH22	1:q:73:GLN:HE22	0.55	0.52
1:e:219:ILE:HD11	1:t:561:TYR:CE2	2.45	0.52
1:g:125:THR:HB	1:r:550:SER:O	2.08	0.52
1:i:73:GLN:HE22	1:y:239:ARG:HH22	0.55	0.52
1:k:190:LYS:NZ	1:v:190:LYS:HD3	2.20	0.52
1:q:157:LEU:CD1	1:q:219:ILE:HG23	2.37	0.52
1:t:48:LYS:N	1:w:56:GLN:OE1	2.42	0.52
1:t:55:TRP:HZ3	1:w:208:SER:N	2.08	0.52
1:O:549:MET:HG2	1:U:125:THR:HG23	1.92	0.52
1:1:550:SER:CA	1:u:125:THR:HG21	2.40	0.52
1:2:127:THR:HA	1:T:552:ILE:HG12	1.87	0.52
1:5:550:SER:O	1:F:125:THR:HB	2.08	0.52
1:B:549:MET:HG2	1:s:125:THR:HG23	1.92	0.52
1:C:208:SER:N	1:J:55:TRP:HZ3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:549:MET:HG2	1:l:125:THR:HG23	1.91	0.52
1:I:550:SER:CA	1:l:125:THR:HG21	2.40	0.52
1:J:127:THR:HA	1:L:552:ILE:HG12	1.87	0.52
1:K:56:GLN:OE1	1:g:48:LYS:N	2.42	0.52
1:K:125:THR:HG23	1:h:549:MET:HG2	1.92	0.52
1:K:208:SER:N	1:g:55:TRP:HZ3	2.08	0.52
1:K:239:ARG:HH22	1:r:73:GLN:HE22	0.55	0.52
1:M:125:THR:HG23	1:p:549:MET:HG2	1.92	0.52
1:R:219:ILE:HD11	1:m:561:TYR:CE2	2.44	0.52
1:U:204:THR:OG1	1:Y:55:TRP:O	2.20	0.52
1:V:157:LEU:CD1	1:V:219:ILE:HG23	2.37	0.52
1:Y:561:TYR:CE2	1:k:219:ILE:HD11	2.45	0.52
1:b:52:ILE:C	1:x:52:ILE:HG12	2.35	0.52
1:g:125:THR:HG21	1:r:550:SER:CA	2.40	0.52
1:g:127:THR:CG2	1:r:552:ILE:CG1	2.64	0.52
1:g:208:SER:N	1:o:55:TRP:HZ3	2.08	0.52
1:l:48:LYS:N	1:z:56:GLN:OE1	2.42	0.51
1:3:549:MET:HG2	1:x:125:THR:HG23	1.92	0.51
1:3:561:TYR:CE2	1:b:219:ILE:HD11	2.45	0.51
1:5:50:LEU:O	1:E:54:GLU:N	2.40	0.51
1:5:55:TRP:HZ3	1:E:208:SER:N	2.08	0.51
1:A:208:SER:N	1:S:55:TRP:HZ3	2.08	0.51
1:C:54:GLU:N	1:J:50:LEU:O	2.40	0.51
1:D:219:ILE:HD11	1:p:561:TYR:CE2	2.45	0.51
1:H:549:MET:HG2	1:S:125:THR:HG23	1.92	0.51
1:J:125:THR:CG2	1:L:551:THR:CG2	2.83	0.51
1:M:52:ILE:C	1:j:52:ILE:HG12	2.35	0.51
1:M:157:LEU:CD1	1:M:219:ILE:HG23	2.36	0.51
1:Q:204:THR:OG1	1:l:55:TRP:O	2.20	0.51
1:S:52:ILE:C	1:k:52:ILE:HG12	2.35	0.51
1:S:204:THR:OG1	1:k:55:TRP:O	2.20	0.51
1:T:105:ASN:OD1	1:T:159:LEU:CD1	2.53	0.51
1:W:561:TYR:CE2	1:a:219:ILE:HD11	2.45	0.51
1:X:561:TYR:CE2	1:w:219:ILE:HD11	2.45	0.51
1:a:54:GLU:HB2	1:b:52:ILE:CD1	2.37	0.51
1:d:52:ILE:HG12	1:p:52:ILE:C	2.35	0.51
1:d:125:THR:HG21	1:v:550:SER:CA	2.40	0.51
1:l:56:GLN:OE1	1:u:48:LYS:N	2.42	0.51
1:r:48:LYS:N	1:t:56:GLN:OE1	2.42	0.51
1:z:159:LEU:HD13	1:z:220:PRO:CG	2.40	0.51
1:1:157:LEU:CD1	1:1:219:ILE:HG23	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:52:ILE:HG12	1:X:52:ILE:C	2.35	0.51
1:3:190:LYS:NZ	1:b:190:LYS:HD3	2.20	0.51
1:4:73:GLN:HE22	1:h:239:ARG:HH22	0.55	0.51
1:5:219:ILE:HD11	1:d:561:TYR:CE2	2.45	0.51
1:A:52:ILE:C	1:S:52:ILE:HG12	2.35	0.51
1:A:219:ILE:HD11	1:H:561:TYR:CE2	2.45	0.51
1:D:550:SER:CA	1:V:125:THR:HG21	2.40	0.51
1:E:52:ILE:HG12	1:v:52:ILE:C	2.35	0.51
1:F:52:ILE:HG12	1:n:52:ILE:C	2.35	0.51
1:G:550:SER:CA	1:j:125:THR:HG21	2.40	0.51
1:I:561:TYR:CE2	1:Q:219:ILE:HD11	2.44	0.51
1:L:52:ILE:HG12	1:c:52:ILE:C	2.35	0.51
1:M:549:MET:HG2	1:p:125:THR:HG23	1.92	0.51
1:N:52:ILE:HG12	1:P:52:ILE:C	2.35	0.51
1:W:208:SER:N	1:q:55:TRP:HZ3	2.08	0.51
1:X:549:MET:HG2	1:t:125:THR:HG23	1.92	0.51
1:g:125:THR:HG23	1:r:549:MET:HG2	1.92	0.51
1:h:190:LYS:NZ	1:o:190:LYS:HD3	2.20	0.51
1:j:157:LEU:CD1	1:j:219:ILE:HG23	2.37	0.51
1:t:159:LEU:HD13	1:t:220:PRO:CG	2.40	0.51
1:l:125:THR:HG21	1:u:550:SER:CA	2.40	0.51
1:2:190:LYS:NZ	1:6:190:LYS:HD3	2.20	0.51
1:2:549:MET:HG2	1:T:125:THR:HG23	1.92	0.51
1:3:50:LEU:O	1:X:54:GLU:N	2.40	0.51
1:3:52:ILE:C	1:e:52:ILE:HG12	2.35	0.51
1:4:52:ILE:HG12	1:H:52:ILE:C	2.35	0.51
1:5:125:THR:CG2	1:F:551:THR:CG2	2.83	0.51
1:7:105:ASN:OD1	1:7:159:LEU:CD1	2.53	0.51
1:A:52:ILE:CD1	1:k:54:GLU:HB2	2.37	0.51
1:A:555:PRO:O	1:Y:214:HIS:ND1	2.44	0.51
1:C:52:ILE:HG12	1:G:52:ILE:C	2.35	0.51
1:H:52:ILE:HG12	1:m:52:ILE:C	2.35	0.51
1:I:239:ARG:HH22	1:e:73:GLN:HE22	0.55	0.51
1:I:555:PRO:O	1:l:214:HIS:ND1	2.44	0.51
1:J:219:ILE:HD11	1:j:561:TYR:CE2	2.45	0.51
1:J:550:SER:O	1:L:125:THR:HB	2.08	0.51
1:K:214:HIS:ND1	1:h:555:PRO:O	2.44	0.51
1:M:54:GLU:HB2	1:j:52:ILE:CD1	2.37	0.51
1:M:561:TYR:CE2	1:f:219:ILE:HD11	2.45	0.51
1:P:159:LEU:HD13	1:P:220:PRO:CG	2.40	0.51
1:W:214:HIS:ND1	1:b:555:PRO:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:52:ILE:HG12	1:x:52:ILE:C	2.35	0.51
1:a:55:TRP:O	1:x:204:THR:OG1	2.20	0.51
1:b:208:SER:N	1:x:55:TRP:HZ3	2.08	0.51
1:b:561:TYR:CE2	1:s:219:ILE:HD11	2.45	0.51
1:f:550:SER:CA	1:q:125:THR:HG21	2.40	0.51
1:g:550:SER:CA	1:r:125:THR:HG21	2.40	0.51
1:h:561:TYR:CE2	1:o:219:ILE:HD11	2.44	0.51
1:i:125:THR:HG21	1:n:550:SER:CA	2.40	0.51
1:l:159:LEU:HD13	1:l:220:PRO:CG	2.40	0.51
1:q:52:ILE:C	1:s:52:ILE:HG12	2.35	0.51
1:r:157:LEU:CD1	1:r:219:ILE:HG23	2.37	0.51
1:r:159:LEU:HD13	1:r:220:PRO:CG	2.40	0.51
1:y:157:LEU:CD1	1:y:219:ILE:HG23	2.37	0.51
1:1:219:ILE:HD11	1:y:561:TYR:CE2	2.44	0.51
1:1:555:PRO:O	1:u:214:HIS:ND1	2.44	0.51
1:3:157:LEU:CD1	1:3:219:ILE:HG23	2.36	0.51
1:3:214:HIS:ND1	1:x:555:PRO:O	2.44	0.51
1:5:159:LEU:HD13	1:5:220:PRO:CG	2.40	0.51
1:6:125:THR:HG21	1:c:550:SER:CA	2.40	0.51
1:6:125:THR:HG23	1:c:549:MET:HG2	1.92	0.51
1:7:73:GLN:NE2	1:P:239:ARG:HH21	1.93	0.51
1:A:561:TYR:CE2	1:U:219:ILE:HD11	2.45	0.51
1:H:214:HIS:ND1	1:S:555:PRO:O	2.44	0.51
1:I:190:LYS:NZ	1:Q:190:LYS:HD3	2.20	0.51
1:I:208:SER:N	1:P:55:TRP:HZ3	2.08	0.51
1:K:159:LEU:HD13	1:K:220:PRO:CG	2.40	0.51
1:N:190:LYS:NZ	1:i:190:LYS:HD3	2.20	0.51
1:Q:56:GLN:OE1	1:l:48:LYS:N	2.42	0.51
1:R:130:PRO:HB3	1:y:558:GLN:HB2	1.93	0.51
1:R:555:PRO:O	1:y:214:HIS:ND1	2.44	0.51
1:U:52:ILE:HG12	1:V:52:ILE:C	2.35	0.51
1:V:55:TRP:HZ3	1:Y:208:SER:N	2.08	0.51
1:W:190:LYS:NZ	1:a:190:LYS:HD3	2.20	0.51
1:X:159:LEU:HD13	1:X:220:PRO:CG	2.40	0.51
1:Z:558:GLN:HB2	1:w:130:PRO:HB3	1.93	0.51
1:d:125:THR:HG23	1:v:549:MET:HG2	1.92	0.51
1:g:73:GLN:HE22	1:t:239:ARG:HH22	0.55	0.51
1:g:214:HIS:ND1	1:r:555:PRO:O	2.44	0.51
1:i:125:THR:HG23	1:n:549:MET:HG2	1.92	0.51
1:m:159:LEU:HD13	1:m:220:PRO:CG	2.40	0.51
1:m:549:MET:HG2	1:z:125:THR:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:52:ILE:HG12	1:y:52:ILE:C	2.35	0.51
1:p:157:LEU:CD1	1:p:219:ILE:HG23	2.36	0.51
1:p:219:ILE:HD11	1:v:561:TYR:CE2	2.44	0.51
1:0:555:PRO:O	1:U:214:HIS:ND1	2.44	0.51
1:2:157:LEU:CD2	1:2:205:GLN:HB2	2.35	0.51
1:4:208:SER:N	1:m:55:TRP:HZ3	2.08	0.51
1:7:125:THR:HG21	1:N:550:SER:CA	2.40	0.51
1:7:125:THR:HG23	1:N:549:MET:HG2	1.92	0.51
1:D:214:HIS:ND1	1:V:555:PRO:O	2.44	0.51
1:H:50:LEU:O	1:m:54:GLU:N	2.40	0.51
1:H:125:THR:HG23	1:S:549:MET:HG2	1.92	0.51
1:J:159:LEU:HD13	1:J:220:PRO:CG	2.40	0.51
1:J:549:MET:HG2	1:L:125:THR:HG23	1.92	0.51
1:K:48:LYS:N	1:o:56:GLN:OE1	2.42	0.51
1:L:56:GLN:OE1	1:Z:48:LYS:N	2.42	0.51
1:O:55:TRP:HZ3	1:h:208:SER:N	2.08	0.51
1:O:159:LEU:HD13	1:O:220:PRO:CG	2.40	0.51
1:Q:52:ILE:C	1:l:52:ILE:HG12	2.35	0.51
1:X:125:THR:HG21	1:t:550:SER:CA	2.40	0.51
1:X:214:HIS:ND1	1:t:555:PRO:O	2.44	0.51
1:Z:561:TYR:CE2	1:r:219:ILE:HD11	2.45	0.51
1:d:52:ILE:CD1	1:p:54:GLU:HB2	2.37	0.51
1:m:125:THR:HG21	1:z:550:SER:CA	2.40	0.51
1:1:56:GLN:OE1	1:R:48:LYS:N	2.42	0.51
1:1:159:LEU:HD13	1:1:220:PRO:CG	2.40	0.51
1:1:208:SER:N	1:R:55:TRP:HZ3	2.08	0.51
1:2:52:ILE:HG12	1:O:52:ILE:C	2.35	0.51
1:2:550:SER:CA	1:T:125:THR:HG21	2.40	0.51
1:2:558:GLN:HB2	1:T:130:PRO:HB3	1.93	0.51
1:4:550:SER:CA	1:O:125:THR:HG21	2.40	0.51
1:5:239:ARG:HH22	1:d:73:GLN:HE22	0.55	0.51
1:5:555:PRO:O	1:F:214:HIS:ND1	2.44	0.51
1:A:48:LYS:N	1:k:56:GLN:OE1	2.42	0.51
1:A:130:PRO:HB3	1:Y:558:GLN:HB2	1.93	0.51
1:B:555:PRO:O	1:s:214:HIS:ND1	2.44	0.51
1:C:280:TYR:CG	1:C:297:LEU:HD23	2.46	0.51
1:D:549:MET:HG2	1:V:125:THR:HG23	1.92	0.51
1:G:549:MET:HG2	1:j:125:THR:HG23	1.92	0.51
1:G:561:TYR:CE2	1:M:219:ILE:HD11	2.44	0.51
1:I:125:THR:HG21	1:l:550:SER:CA	2.40	0.51
1:I:130:PRO:HB3	1:l:558:GLN:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:280:TYR:CG	1:I:297:LEU:HD23	2.46	0.51
1:J:239:ARG:HH22	1:j:73:GLN:HE22	0.55	0.51
1:J:552:ILE:HG12	1:L:127:THR:HA	1.87	0.51
1:J:555:PRO:O	1:L:214:HIS:ND1	2.44	0.51
1:K:52:ILE:HG12	1:o:52:ILE:C	2.35	0.51
1:K:558:GLN:HB2	1:h:130:PRO:HB3	1.93	0.51
1:N:219:ILE:HD11	1:l:561:TYR:CE2	2.45	0.51
1:O:52:ILE:HG12	1:h:52:ILE:C	2.35	0.51
1:O:239:ARG:HH21	1:T:73:GLN:NE2	1.93	0.51
1:P:125:THR:HG21	1:e:550:SER:CA	2.40	0.51
1:R:125:THR:HG23	1:y:549:MET:HG2	1.92	0.51
1:U:280:TYR:CG	1:U:297:LEU:HD23	2.46	0.51
1:V:52:ILE:HG12	1:Y:52:ILE:C	2.35	0.51
1:W:52:ILE:C	1:q:52:ILE:HG12	2.35	0.51
1:W:125:THR:HG21	1:b:550:SER:CA	2.40	0.51
1:W:130:PRO:HB3	1:b:558:GLN:HB2	1.93	0.51
1:Z:52:ILE:C	1:c:52:ILE:HG12	2.35	0.51
1:Z:280:TYR:CG	1:Z:297:LEU:HD23	2.46	0.51
1:a:208:SER:N	1:b:55:TRP:HZ3	2.08	0.51
1:d:280:TYR:CG	1:d:297:LEU:HD23	2.46	0.51
1:f:130:PRO:HB3	1:q:558:GLN:HB2	1.93	0.51
1:f:214:HIS:ND1	1:q:555:PRO:O	2.44	0.51
1:h:280:TYR:CG	1:h:297:LEU:HD23	2.46	0.51
1:i:125:THR:HG1	1:n:549:MET:HE2	1.74	0.51
1:j:280:TYR:CG	1:j:297:LEU:HD23	2.46	0.51
1:r:56:GLN:OE1	1:w:48:LYS:N	2.42	0.51
1:s:159:LEU:HD13	1:s:220:PRO:CG	2.40	0.51
1:s:280:TYR:CG	1:s:297:LEU:HD23	2.46	0.51
1:u:73:GLN:HE22	1:z:239:ARG:HH22	0.55	0.51
1:1:190:LYS:HD3	1:y:190:LYS:NZ	2.20	0.51
1:1:190:LYS:NZ	1:l:190:LYS:HD3	2.20	0.51
1:2:219:ILE:HD11	1:K:561:TYR:CE2	2.45	0.51
1:4:558:GLN:HB2	1:O:130:PRO:HB3	1.93	0.51
1:5:549:MET:HG2	1:F:125:THR:HG23	1.92	0.51
1:7:55:TRP:HZ3	1:i:208:SER:N	2.08	0.51
1:7:130:PRO:HB3	1:N:558:GLN:HB2	1.93	0.51
1:A:55:TRP:HZ3	1:k:208:SER:N	2.08	0.51
1:A:558:GLN:HB2	1:Y:130:PRO:HB3	1.93	0.51
1:E:280:TYR:CG	1:E:297:LEU:HD23	2.46	0.51
1:F:56:GLN:OE1	1:y:48:LYS:N	2.42	0.51
1:F:190:LYS:HD3	1:R:190:LYS:NZ	2.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:125:THR:HG21	1:j:550:SER:CA	2.40	0.51
1:G:130:PRO:HB3	1:j:558:GLN:HB2	1.93	0.51
1:H:157:LEU:CD1	1:H:219:ILE:HG23	2.37	0.51
1:H:550:SER:CA	1:S:125:THR:HG21	2.40	0.51
1:I:52:ILE:C	1:P:52:ILE:HG12	2.35	0.51
1:K:190:LYS:HD3	1:r:190:LYS:NZ	2.20	0.51
1:K:550:SER:CA	1:h:125:THR:HG21	2.40	0.51
1:M:280:TYR:CG	1:M:297:LEU:HD23	2.46	0.51
1:M:555:PRO:O	1:p:214:HIS:ND1	2.44	0.51
1:N:159:LEU:HD13	1:N:220:PRO:CG	2.40	0.51
1:O:190:LYS:HD3	1:T:190:LYS:NZ	2.20	0.51
1:P:125:THR:HG23	1:e:549:MET:HG2	1.92	0.51
1:P:130:PRO:HB3	1:e:558:GLN:HB2	1.93	0.51
1:R:552:ILE:CG1	1:y:127:THR:CG2	2.63	0.51
1:U:159:LEU:HD13	1:U:220:PRO:CG	2.40	0.51
1:W:558:GLN:HB2	1:b:130:PRO:HB3	1.93	0.51
1:X:55:TRP:HZ3	1:e:208:SER:N	2.08	0.51
1:Z:190:LYS:NZ	1:r:190:LYS:HD3	2.20	0.51
1:Z:549:MET:HG2	1:w:125:THR:HG23	1.92	0.51
1:a:56:GLN:OE1	1:b:48:LYS:N	2.42	0.51
1:d:558:GLN:HB2	1:v:130:PRO:HB3	1.93	0.51
1:f:549:MET:HG2	1:q:125:THR:HG23	1.92	0.51
1:p:280:TYR:CG	1:p:297:LEU:HD23	2.46	0.51
1:r:52:ILE:CD1	1:t:54:GLU:HB2	2.37	0.51
1:r:208:SER:N	1:w:55:TRP:HZ3	2.08	0.51
1:y:280:TYR:CG	1:y:297:LEU:HD23	2.46	0.51
1:3:125:THR:HG23	1:x:549:MET:HG2	1.92	0.51
1:3:550:SER:CA	1:x:125:THR:HG21	2.40	0.51
1:4:159:LEU:HD13	1:4:220:PRO:CG	2.40	0.51
1:6:125:THR:HB	1:c:550:SER:O	2.08	0.51
1:6:208:SER:N	1:T:55:TRP:HZ3	2.08	0.51
1:A:280:TYR:CG	1:A:297:LEU:HD23	2.46	0.51
1:A:550:SER:CA	1:Y:125:THR:HG21	2.40	0.51
1:D:130:PRO:HB3	1:V:558:GLN:HB2	1.93	0.51
1:D:555:PRO:O	1:V:214:HIS:ND1	2.44	0.51
1:E:159:LEU:HD13	1:E:220:PRO:CG	2.40	0.51
1:E:558:GLN:HB2	1:k:130:PRO:HB3	1.93	0.51
1:F:55:TRP:HZ3	1:n:208:SER:N	2.08	0.51
1:H:558:GLN:HB2	1:S:130:PRO:HB3	1.93	0.51
1:b:280:TYR:CG	1:b:297:LEU:HD23	2.46	0.51
1:m:280:TYR:CG	1:m:297:LEU:HD23	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:550:SER:CA	1:z:125:THR:HG21	2.40	0.51
1:o:280:TYR:CG	1:o:297:LEU:HD23	2.46	0.51
1:v:280:TYR:CG	1:v:297:LEU:HD23	2.46	0.51
1:3:558:GLN:HB2	1:x:130:PRO:HB3	1.93	0.51
1:4:549:MET:HG2	1:O:125:THR:HG23	1.92	0.51
1:6:125:THR:HG1	1:c:549:MET:HE2	1.74	0.51
1:7:190:LYS:NZ	1:P:190:LYS:HD3	2.20	0.51
1:C:130:PRO:HB3	1:a:558:GLN:HB2	1.93	0.51
1:C:159:LEU:HD13	1:C:220:PRO:CG	2.40	0.51
1:C:214:HIS:ND1	1:a:555:PRO:O	2.44	0.51
1:C:558:GLN:HB2	1:a:130:PRO:HB3	1.93	0.51
1:E:125:THR:HG23	1:k:549:MET:HG2	1.92	0.51
1:E:130:PRO:HB3	1:k:558:GLN:HB2	1.93	0.51
1:E:214:HIS:ND1	1:k:555:PRO:O	2.44	0.51
1:G:280:TYR:CG	1:G:297:LEU:HD23	2.46	0.51
1:K:125:THR:HG22	1:h:550:SER:C	2.36	0.51
1:L:55:TRP:HZ3	1:c:208:SER:N	2.08	0.51
1:M:214:HIS:ND1	1:p:555:PRO:O	2.44	0.51
1:M:558:GLN:HB2	1:p:130:PRO:HB3	1.93	0.51
1:P:555:PRO:O	1:e:214:HIS:ND1	2.44	0.51
1:Q:280:TYR:CG	1:Q:297:LEU:HD23	2.46	0.51
1:S:280:TYR:CG	1:S:297:LEU:HD23	2.46	0.51
1:V:159:LEU:HD13	1:V:220:PRO:CG	2.40	0.51
1:X:280:TYR:CG	1:X:297:LEU:HD23	2.46	0.51
1:d:550:SER:CA	1:v:125:THR:HG21	2.40	0.51
1:e:159:LEU:HD13	1:e:220:PRO:CG	2.40	0.51
1:f:125:THR:CG2	1:q:551:THR:CG2	2.83	0.51
1:f:208:SER:N	1:p:55:TRP:HZ3	2.08	0.51
1:o:159:LEU:HD13	1:o:220:PRO:CG	2.40	0.51
1:x:280:TYR:CG	1:x:297:LEU:HD23	2.46	0.51
1:O:127:THR:HA	1:U:552:ILE:HG12	1.87	0.51
1:O:550:SER:CA	1:U:125:THR:HG21	2.40	0.51
1:1:52:ILE:CD1	1:z:54:GLU:HB2	2.37	0.51
1:3:125:THR:CG2	1:x:551:THR:CG2	2.83	0.51
1:B:127:THR:HA	1:s:552:ILE:HG12	1.87	0.51
1:B:550:SER:CA	1:s:125:THR:HG21	2.40	0.51
1:E:552:ILE:CG1	1:k:127:THR:CG2	2.64	0.51
1:F:280:TYR:CG	1:F:297:LEU:HD23	2.46	0.51
1:I:550:SER:C	1:l:125:THR:HG22	2.36	0.51
1:L:280:TYR:CG	1:L:297:LEU:HD23	2.46	0.51
1:M:130:PRO:HB3	1:p:558:GLN:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:159:LEU:HD13	1:Q:220:PRO:CG	2.40	0.51
1:W:48:LYS:N	1:s:56:GLN:OE1	2.42	0.51
1:X:550:SER:CA	1:t:125:THR:HG21	2.40	0.51
1:f:555:PRO:O	1:q:214:HIS:ND1	2.44	0.51
1:i:125:THR:HB	1:n:550:SER:O	2.08	0.51
1:n:280:TYR:CG	1:n:297:LEU:HD23	2.46	0.51
1:p:190:LYS:HD3	1:v:190:LYS:NZ	2.20	0.51
1:q:159:LEU:HD13	1:q:220:PRO:CG	2.40	0.51
1:7:54:GLU:HB2	1:B:52:ILE:CD1	2.37	0.50
1:D:125:THR:CG2	1:V:551:THR:CG2	2.83	0.50
1:D:208:SER:N	1:M:55:TRP:HZ3	2.08	0.50
1:F:52:ILE:C	1:y:52:ILE:HG12	2.35	0.50
1:G:190:LYS:NZ	1:M:190:LYS:HD3	2.20	0.50
1:H:130:PRO:HB3	1:S:558:GLN:HB2	1.93	0.50
1:J:125:THR:HG21	1:L:550:SER:CA	2.40	0.50
1:J:558:GLN:HB2	1:L:130:PRO:HB3	1.93	0.50
1:L:52:ILE:C	1:Z:52:ILE:HG12	2.35	0.50
1:L:190:LYS:HD3	1:w:190:LYS:NZ	2.20	0.50
1:S:73:GLN:HE22	1:m:239:ARG:HH22	0.55	0.50
1:W:54:GLU:HB2	1:q:52:ILE:CD1	2.37	0.50
1:X:239:ARG:HH22	1:x:73:GLN:HE22	0.55	0.50
1:Z:125:THR:HG23	1:w:549:MET:HG2	1.92	0.50
1:c:280:TYR:CG	1:c:297:LEU:HD23	2.46	0.50
1:g:280:TYR:CG	1:g:297:LEU:HD23	2.46	0.50
1:i:550:SER:CA	1:n:125:THR:HG21	2.40	0.50
1:y:159:LEU:HD13	1:y:220:PRO:CG	2.40	0.50
1:1:130:PRO:HB3	1:u:558:GLN:HB2	1.93	0.50
1:1:280:TYR:CG	1:1:297:LEU:HD23	2.46	0.50
1:2:157:LEU:CD1	1:2:219:ILE:HG23	2.37	0.50
1:2:280:TYR:CG	1:2:297:LEU:HD23	2.46	0.50
1:3:130:PRO:HB3	1:x:558:GLN:HB2	1.93	0.50
1:5:125:THR:HG21	1:F:550:SER:CA	2.40	0.50
1:6:550:SER:CA	1:c:125:THR:HG21	2.40	0.50
1:C:125:THR:HG23	1:a:549:MET:HG2	1.92	0.50
1:L:52:ILE:CD1	1:c:54:GLU:HB2	2.37	0.50
1:R:280:TYR:CG	1:R:297:LEU:HD23	2.46	0.50
1:U:56:GLN:OE1	1:Y:48:LYS:N	2.42	0.50
1:d:125:THR:HG22	1:v:550:SER:C	2.36	0.50
1:e:239:ARG:HH21	1:t:73:GLN:NE2	1.93	0.50
1:f:550:SER:C	1:q:125:THR:HG22	2.36	0.50
1:t:280:TYR:CG	1:t:297:LEU:HD23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:280:TYR:CG	1:u:297:LEU:HD23	2.46	0.50
1:w:280:TYR:CG	1:w:297:LEU:HD23	2.46	0.50
1:z:280:TYR:CG	1:z:297:LEU:HD23	2.46	0.50
1:4:125:THR:HG22	1:O:551:THR:HG22	1.84	0.50
1:4:239:ARG:HH21	1:z:73:GLN:NE2	1.93	0.50
1:5:558:GLN:HB2	1:F:130:PRO:HB3	1.93	0.50
1:D:125:THR:HG21	1:V:550:SER:CA	2.40	0.50
1:D:550:SER:C	1:V:125:THR:HG22	2.36	0.50
1:H:125:THR:CG2	1:S:551:THR:CG2	2.83	0.50
1:I:558:GLN:HB2	1:l:130:PRO:HB3	1.93	0.50
1:K:130:PRO:HB3	1:h:558:GLN:HB2	1.93	0.50
1:O:280:TYR:CG	1:O:297:LEU:HD23	2.46	0.50
1:Q:127:THR:HA	1:o:552:ILE:HG12	1.87	0.50
1:R:549:MET:HG2	1:y:125:THR:HG23	1.92	0.50
1:R:550:SER:C	1:y:125:THR:HG22	2.36	0.50
1:R:558:GLN:HB2	1:y:130:PRO:HB3	1.93	0.50
1:V:52:ILE:CD1	1:Y:54:GLU:HB2	2.37	0.50
1:V:280:TYR:CG	1:V:297:LEU:HD23	2.46	0.50
1:W:280:TYR:CG	1:W:297:LEU:HD23	2.46	0.50
1:Y:280:TYR:CG	1:Y:297:LEU:HD23	2.46	0.50
1:Z:125:THR:HG22	1:w:550:SER:C	2.36	0.50
1:Z:130:PRO:HB3	1:w:558:GLN:HB2	1.93	0.50
1:Z:159:LEU:HD13	1:Z:220:PRO:CG	2.40	0.50
1:f:125:THR:HG21	1:q:550:SER:CA	2.40	0.50
1:g:558:GLN:HB2	1:r:130:PRO:HB3	1.93	0.50
1:i:130:PRO:HB3	1:n:558:GLN:HB2	1.93	0.50
1:r:280:TYR:CG	1:r:297:LEU:HD23	2.46	0.50
1:0:52:ILE:CD1	1:T:54:GLU:HB2	2.37	0.50
1:0:280:TYR:CG	1:0:297:LEU:HD23	2.46	0.50
1:2:130:PRO:HB3	1:T:558:GLN:HB2	1.93	0.50
1:5:280:TYR:CG	1:5:297:LEU:HD23	2.46	0.50
1:6:130:PRO:HB3	1:c:558:GLN:HB2	1.93	0.50
1:6:190:LYS:NZ	1:Z:190:LYS:HD3	2.20	0.50
1:6:280:TYR:CG	1:6:297:LEU:HD23	2.46	0.50
1:6:549:MET:HG2	1:c:125:THR:HG23	1.92	0.50
1:N:280:TYR:CG	1:N:297:LEU:HD23	2.46	0.50
1:P:280:TYR:CG	1:P:297:LEU:HD23	2.46	0.50
1:Q:130:PRO:HB3	1:o:558:GLN:HB2	1.93	0.50
1:Q:552:ILE:HG12	1:o:127:THR:HA	1.87	0.50
1:X:130:PRO:HB3	1:t:558:GLN:HB2	1.93	0.50
1:f:280:TYR:CG	1:f:297:LEU:HD23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:130:PRO:HB3	1:z:558:GLN:HB2	1.93	0.50
1:q:280:TYR:CG	1:q:297:LEU:HD23	2.46	0.50
1:0:558:GLN:HB2	1:U:130:PRO:HB3	1.93	0.50
1:4:550:SER:C	1:O:125:THR:HG22	2.36	0.50
1:7:558:GLN:HB2	1:N:130:PRO:HB3	1.93	0.50
1:A:239:ARG:HH21	1:H:73:GLN:NE2	1.93	0.50
1:B:54:GLU:HB2	1:i:52:ILE:CD1	2.37	0.50
1:B:280:TYR:CG	1:B:297:LEU:HD23	2.46	0.50
1:B:558:GLN:HB2	1:s:130:PRO:HB3	1.93	0.50
1:D:125:THR:HG23	1:V:549:MET:HG2	1.92	0.50
1:D:280:TYR:CG	1:D:297:LEU:HD23	2.46	0.50
1:G:214:HIS:ND1	1:j:555:PRO:O	2.44	0.50
1:G:550:SER:C	1:j:125:THR:HG22	2.36	0.50
1:Q:558:GLN:HB2	1:o:130:PRO:HB3	1.93	0.50
1:R:214:HIS:ND1	1:y:555:PRO:O	2.44	0.50
1:a:280:TYR:CG	1:a:297:LEU:HD23	2.46	0.50
1:d:555:PRO:O	1:v:214:HIS:ND1	2.44	0.50
1:i:280:TYR:CG	1:i:297:LEU:HD23	2.46	0.50
1:k:159:LEU:HD13	1:k:220:PRO:CG	2.40	0.50
1:r:55:TRP:HZ3	1:t:208:SER:N	2.08	0.50
1:2:103:ILE:HD13	1:2:165:MET:SD	2.52	0.50
1:2:159:LEU:HD13	1:2:220:PRO:CG	2.40	0.50
1:7:280:TYR:CG	1:7:297:LEU:HD23	2.46	0.50
1:C:552:ILE:CG1	1:a:127:THR:CG2	2.64	0.50
1:F:52:ILE:CD1	1:n:54:GLU:HB2	2.37	0.50
1:J:280:TYR:CG	1:J:297:LEU:HD23	2.46	0.50
1:N:103:ILE:HD13	1:N:165:MET:SD	2.52	0.50
1:N:531:GLU:HG2	1:i:236:ILE:HD11	1.94	0.50
1:P:551:THR:HG22	1:e:125:THR:HG22	1.84	0.50
1:Q:103:ILE:HD13	1:Q:165:MET:SD	2.52	0.50
1:Q:214:HIS:ND1	1:o:555:PRO:O	2.44	0.50
1:R:157:LEU:CD1	1:R:219:ILE:HG23	2.36	0.50
1:S:159:LEU:HD13	1:S:220:PRO:CG	2.40	0.50
1:T:280:TYR:CG	1:T:297:LEU:HD23	2.46	0.50
1:W:157:LEU:CD1	1:W:219:ILE:HG23	2.37	0.50
1:X:558:GLN:HB2	1:t:130:PRO:HB3	1.93	0.50
1:a:159:LEU:HD13	1:a:220:PRO:CG	2.40	0.50
1:i:190:LYS:NZ	1:y:190:LYS:HD3	2.20	0.50
1:i:549:MET:HG2	1:n:125:THR:HG23	1.92	0.50
1:k:280:TYR:CG	1:k:297:LEU:HD23	2.46	0.50
1:m:214:HIS:ND1	1:z:555:PRO:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:236:ILE:HD11	1:v:531:GLU:HG2	1.94	0.50
1:w:157:LEU:CD1	1:w:219:ILE:HG23	2.37	0.50
1:1:55:TRP:HZ3	1:z:208:SER:N	2.08	0.50
1:1:73:GLN:NE2	1:l:239:ARG:HH21	1.93	0.50
1:1:558:GLN:HB2	1:u:130:PRO:HB3	1.93	0.50
1:2:236:ILE:HD11	1:K:531:GLU:HG2	1.94	0.50
1:2:531:GLU:HG2	1:6:236:ILE:HD11	1.94	0.50
1:3:73:GLN:NE2	1:b:239:ARG:HH21	1.93	0.50
1:4:130:PRO:HB3	1:O:558:GLN:HB2	1.93	0.50
1:A:552:ILE:HG12	1:Y:127:THR:HA	1.87	0.50
1:B:130:PRO:HB3	1:s:558:GLN:HB2	1.93	0.50
1:D:531:GLU:HG2	1:Y:236:ILE:HD11	1.94	0.50
1:D:558:GLN:HB2	1:V:130:PRO:HB3	1.93	0.50
1:G:531:GLU:HG2	1:M:236:ILE:HD11	1.94	0.50
1:K:280:TYR:CG	1:K:297:LEU:HD23	2.46	0.50
1:N:236:ILE:HD11	1:l:531:GLU:HG2	1.94	0.50
1:P:558:GLN:HB2	1:e:130:PRO:HB3	1.93	0.50
1:Q:555:PRO:O	1:o:214:HIS:ND1	2.44	0.50
1:V:103:ILE:HD13	1:V:165:MET:SD	2.52	0.50
1:W:236:ILE:HD11	1:f:531:GLU:HG2	1.94	0.50
1:X:236:ILE:HD11	1:x:531:GLU:HG2	1.94	0.50
1:Z:555:PRO:O	1:w:214:HIS:ND1	2.44	0.50
1:c:103:ILE:HD13	1:c:165:MET:SD	2.52	0.50
1:e:280:TYR:CG	1:e:297:LEU:HD23	2.46	0.50
1:f:125:THR:HG23	1:q:549:MET:HG2	1.92	0.50
1:f:558:GLN:HB2	1:q:130:PRO:HB3	1.93	0.50
1:m:558:GLN:HB2	1:z:130:PRO:HB3	1.93	0.50
1:n:103:ILE:HD13	1:n:165:MET:SD	2.52	0.50
1:o:103:ILE:HD13	1:o:165:MET:SD	2.52	0.50
1:q:103:ILE:HD13	1:q:165:MET:SD	2.52	0.50
1:0:54:GLU:HB2	1:6:52:ILE:CD1	2.37	0.50
1:0:130:PRO:HB3	1:U:558:GLN:HB2	1.93	0.50
1:2:214:HIS:ND1	1:T:555:PRO:O	2.44	0.50
1:4:555:PRO:O	1:O:214:HIS:ND1	2.44	0.50
1:5:103:ILE:HD13	1:5:165:MET:SD	2.52	0.50
1:7:236:ILE:HD11	1:s:531:GLU:HG2	1.94	0.50
1:A:127:THR:HA	1:Y:552:ILE:HG12	1.87	0.50
1:A:236:ILE:HD11	1:H:531:GLU:HG2	1.94	0.50
1:C:239:ARG:HH22	1:L:73:GLN:HE22	0.55	0.50
1:G:555:PRO:O	1:j:214:HIS:ND1	2.44	0.50
1:H:280:TYR:CG	1:H:297:LEU:HD23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:157:LEU:CD1	1:I:219:ILE:HG23	2.37	0.50
1:J:157:LEU:CD1	1:J:219:ILE:HG23	2.37	0.50
1:K:236:ILE:HD11	1:r:531:GLU:HG2	1.94	0.50
1:O:103:ILE:HD13	1:O:165:MET:SD	2.52	0.50
1:P:103:ILE:HD13	1:P:165:MET:SD	2.52	0.50
1:P:125:THR:HG22	1:e:550:SER:C	2.36	0.50
1:R:103:ILE:HD13	1:R:165:MET:SD	2.52	0.50
1:R:125:THR:HG22	1:y:550:SER:C	2.36	0.50
1:S:531:GLU:HG2	1:m:236:ILE:HD11	1.94	0.50
1:T:236:ILE:HD11	1:U:531:GLU:HG2	1.94	0.50
1:Y:157:LEU:CD1	1:Y:219:ILE:HG23	2.37	0.50
1:c:159:LEU:HD13	1:c:220:PRO:CG	2.40	0.50
1:d:214:HIS:ND1	1:v:555:PRO:O	2.44	0.50
1:g:103:ILE:HD13	1:g:165:MET:SD	2.52	0.50
1:g:130:PRO:HB3	1:r:558:GLN:HB2	1.93	0.50
1:l:280:TYR:CG	1:l:297:LEU:HD23	2.46	0.50
1:w:103:ILE:HD13	1:w:165:MET:SD	2.52	0.50
1:x:159:LEU:HD13	1:x:220:PRO:CG	2.40	0.50
1:1:103:ILE:HD13	1:1:165:MET:SD	2.52	0.50
1:1:531:GLU:HG2	1:l:236:ILE:HD11	1.94	0.50
1:2:190:LYS:HD3	1:K:190:LYS:NZ	2.20	0.50
1:3:280:TYR:CG	1:3:297:LEU:HD23	2.46	0.50
1:3:531:GLU:HG2	1:b:236:ILE:HD11	1.94	0.50
1:4:190:LYS:NZ	1:h:190:LYS:HD3	2.20	0.50
1:4:280:TYR:CG	1:4:297:LEU:HD23	2.46	0.50
1:5:236:ILE:HD11	1:d:531:GLU:HG2	1.94	0.50
1:G:73:GLN:HE22	1:M:239:ARG:HH22	0.55	0.50
1:G:103:ILE:HD13	1:G:165:MET:SD	2.52	0.50
1:J:103:ILE:HD13	1:J:165:MET:SD	2.52	0.50
1:M:159:LEU:HD13	1:M:220:PRO:CG	2.40	0.50
1:N:190:LYS:HD3	1:l:190:LYS:NZ	2.20	0.50
1:k:73:GLN:NE2	1:v:239:ARG:HH21	1.93	0.50
1:k:73:GLN:HE22	1:v:239:ARG:HH22	0.55	0.50
1:p:159:LEU:HD13	1:p:220:PRO:CG	2.40	0.50
1:r:103:ILE:HD13	1:r:165:MET:SD	2.52	0.50
1:u:103:ILE:HD13	1:u:165:MET:SD	2.52	0.50
1:v:103:ILE:HD13	1:v:165:MET:SD	2.52	0.50
1:2:555:PRO:O	1:T:214:HIS:ND1	2.44	0.49
1:5:130:PRO:HB3	1:F:558:GLN:HB2	1.93	0.49
1:5:157:LEU:CD1	1:5:219:ILE:HG23	2.37	0.49
1:7:555:PRO:O	1:N:214:HIS:ND1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:THR:HG22	1:Y:550:SER:C	2.36	0.49
1:E:236:ILE:HD11	1:F:531:GLU:HG2	1.94	0.49
1:E:239:ARG:HH22	1:F:73:GLN:HE22	0.55	0.49
1:I:214:HIS:ND1	1:l:555:PRO:O	2.44	0.49
1:J:130:PRO:HB3	1:L:558:GLN:HB2	1.93	0.49
1:J:236:ILE:HD11	1:j:531:GLU:HG2	1.94	0.49
1:K:555:PRO:O	1:h:214:HIS:ND1	2.44	0.49
1:P:214:HIS:ND1	1:e:555:PRO:O	2.44	0.49
1:U:103:ILE:HD13	1:U:165:MET:SD	2.52	0.49
1:W:550:SER:C	1:b:125:THR:HG22	2.36	0.49
1:X:381:ILE:HG22	1:X:382:PHE:N	2.27	0.49
1:X:551:THR:CG2	1:t:125:THR:CG2	2.83	0.49
1:Z:550:SER:C	1:w:125:THR:HG22	2.36	0.49
1:g:381:ILE:HG22	1:g:382:PHE:N	2.27	0.49
1:h:157:LEU:CD1	1:h:219:ILE:HG23	2.37	0.49
1:j:103:ILE:HD13	1:j:165:MET:SD	2.52	0.49
1:m:381:ILE:HG22	1:m:382:PHE:N	2.27	0.49
1:m:551:THR:CG2	1:z:125:THR:CG2	2.83	0.49
1:p:239:ARG:HH22	1:v:73:GLN:HE22	0.55	0.49
1:u:381:ILE:HG22	1:u:382:PHE:N	2.27	0.49
1:1:236:ILE:HD11	1:y:531:GLU:HG2	1.94	0.49
1:3:103:ILE:HD13	1:3:165:MET:SD	2.52	0.49
1:5:560:THR:OG1	1:F:212:PHE:CD1	2.66	0.49
1:7:389:LEU:HD11	1:7:470:PHE:CD1	2.47	0.49
1:C:236:ILE:HD11	1:L:531:GLU:HG2	1.94	0.49
1:F:389:LEU:HD11	1:F:470:PHE:CD1	2.48	0.49
1:G:239:ARG:HH22	1:a:73:GLN:HE22	0.55	0.49
1:H:103:ILE:HD13	1:H:165:MET:SD	2.52	0.49
1:I:103:ILE:HD13	1:I:165:MET:SD	2.52	0.49
1:J:214:HIS:ND1	1:L:555:PRO:O	2.44	0.49
1:J:560:THR:OG1	1:L:212:PHE:CD1	2.66	0.49
1:W:127:THR:HA	1:b:552:ILE:HG12	1.87	0.49
1:Z:531:GLU:HG2	1:r:236:ILE:HD11	1.94	0.49
1:d:103:ILE:HD13	1:d:165:MET:SD	2.52	0.49
1:g:531:GLU:HG2	1:t:236:ILE:HD11	1.94	0.49
1:m:212:PHE:CD1	1:z:560:THR:OG1	2.66	0.49
1:n:159:LEU:HD13	1:n:220:PRO:CG	2.40	0.49
1:s:103:ILE:HD13	1:s:165:MET:SD	2.52	0.49
1:u:531:GLU:HG2	1:z:236:ILE:HD11	1.94	0.49
1:0:236:ILE:HD11	1:c:531:GLU:HG2	1.94	0.49
1:1:550:SER:C	1:u:125:THR:HG22	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:381:ILE:HG22	1:2:382:PHE:N	2.28	0.49
1:3:560:THR:OG1	1:x:212:PHE:CE1	2.66	0.49
1:4:389:LEU:HD11	1:4:470:PHE:CD1	2.48	0.49
1:6:212:PHE:CD1	1:c:560:THR:OG1	2.66	0.49
1:7:214:HIS:ND1	1:N:555:PRO:O	2.44	0.49
1:B:236:ILE:HD11	1:n:531:GLU:HG2	1.94	0.49
1:C:552:ILE:HG12	1:a:127:THR:HA	1.87	0.49
1:D:125:THR:HG22	1:V:550:SER:C	2.36	0.49
1:H:560:THR:OG1	1:S:212:PHE:CE1	2.66	0.49
1:I:212:PHE:CE1	1:l:560:THR:OG1	2.66	0.49
1:J:212:PHE:CE1	1:L:560:THR:OG1	2.66	0.49
1:K:381:ILE:HG22	1:K:382:PHE:N	2.28	0.49
1:K:560:THR:OG1	1:h:212:PHE:CE1	2.66	0.49
1:L:389:LEU:HD11	1:L:470:PHE:CD1	2.48	0.49
1:N:381:ILE:HG22	1:N:382:PHE:N	2.28	0.49
1:R:560:THR:OG1	1:y:212:PHE:CE1	2.66	0.49
1:S:103:ILE:HD13	1:S:165:MET:SD	2.52	0.49
1:S:389:LEU:HD11	1:S:470:PHE:CD1	2.48	0.49
1:T:389:LEU:HD11	1:T:470:PHE:CD1	2.48	0.49
1:U:389:LEU:HD11	1:U:470:PHE:CD1	2.48	0.49
1:W:552:ILE:HG12	1:b:127:THR:HA	1.87	0.49
1:X:212:PHE:CD1	1:t:560:THR:OG1	2.66	0.49
1:X:212:PHE:CE1	1:t:560:THR:OG1	2.66	0.49
1:Z:212:PHE:CE1	1:w:560:THR:OG1	2.66	0.49
1:e:389:LEU:HD11	1:e:470:PHE:CD1	2.48	0.49
1:g:125:THR:HG22	1:r:550:SER:C	2.36	0.49
1:h:103:ILE:HD13	1:h:165:MET:SD	2.52	0.49
1:i:212:PHE:CD1	1:n:560:THR:OG1	2.66	0.49
1:j:389:LEU:HD11	1:j:470:PHE:CD1	2.48	0.49
1:l:381:ILE:HG22	1:l:382:PHE:N	2.28	0.49
1:m:212:PHE:CE1	1:z:560:THR:OG1	2.66	0.49
1:r:381:ILE:HG22	1:r:382:PHE:N	2.28	0.49
1:z:103:ILE:HD13	1:z:165:MET:SD	2.52	0.49
1:1:214:HIS:ND1	1:u:555:PRO:O	2.44	0.49
1:1:381:ILE:HG22	1:1:382:PHE:N	2.28	0.49
1:1:560:THR:OG1	1:u:212:PHE:CE1	2.66	0.49
1:2:212:PHE:CD1	1:T:560:THR:OG1	2.66	0.49
1:5:212:PHE:CE1	1:F:560:THR:OG1	2.66	0.49
1:5:214:HIS:ND1	1:F:555:PRO:O	2.44	0.49
1:6:204:THR:OG1	1:T:55:TRP:O	2.20	0.49
1:6:212:PHE:CE1	1:c:560:THR:OG1	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:389:LEU:HD11	1:6:470:PHE:CD1	2.48	0.49
1:7:560:THR:OG1	1:N:212:PHE:CD1	2.66	0.49
1:A:103:ILE:HD13	1:A:165:MET:SD	2.52	0.49
1:C:212:PHE:CD1	1:a:560:THR:OG1	2.66	0.49
1:D:52:ILE:CD1	1:j:54:GLU:HB2	2.37	0.49
1:E:125:THR:HG22	1:k:550:SER:C	2.36	0.49
1:E:190:LYS:HD3	1:F:190:LYS:NZ	2.20	0.49
1:E:212:PHE:CD1	1:k:560:THR:OG1	2.66	0.49
1:F:300:LEU:HD22	1:F:332:GLY:O	2.13	0.49
1:G:239:ARG:HH21	1:a:73:GLN:NE2	1.93	0.49
1:G:300:LEU:HD22	1:G:332:GLY:O	2.13	0.49
1:G:389:LEU:HD11	1:G:470:PHE:CD1	2.48	0.49
1:H:127:THR:HA	1:S:552:ILE:HG12	1.87	0.49
1:I:190:LYS:HD3	1:e:190:LYS:NZ	2.20	0.49
1:I:212:PHE:CD1	1:l:560:THR:OG1	2.66	0.49
1:K:103:ILE:HD13	1:K:165:MET:SD	2.52	0.49
1:L:300:LEU:HD22	1:L:332:GLY:O	2.13	0.49
1:M:127:THR:HA	1:p:552:ILE:HG12	1.87	0.49
1:b:103:ILE:HD13	1:b:165:MET:SD	2.52	0.49
1:c:300:LEU:HD22	1:c:332:GLY:O	2.13	0.49
1:c:389:LEU:HD11	1:c:470:PHE:CD1	2.48	0.49
1:d:54:GLU:HB2	1:f:52:ILE:CD1	2.37	0.49
1:d:389:LEU:HD11	1:d:470:PHE:CD1	2.48	0.49
1:g:212:PHE:CE1	1:r:560:THR:OG1	2.66	0.49
1:i:212:PHE:CE1	1:n:560:THR:OG1	2.66	0.49
1:k:389:LEU:HD11	1:k:470:PHE:CD1	2.48	0.49
1:l:103:ILE:HD13	1:l:165:MET:SD	2.52	0.49
1:n:389:LEU:HD11	1:n:470:PHE:CD1	2.48	0.49
1:s:389:LEU:HD11	1:s:470:PHE:CD1	2.48	0.49
1:t:103:ILE:HD13	1:t:165:MET:SD	2.52	0.49
1:v:389:LEU:HD11	1:v:470:PHE:CD1	2.48	0.49
1:x:103:ILE:HD13	1:x:165:MET:SD	2.52	0.49
1:x:389:LEU:HD11	1:x:470:PHE:CD1	2.48	0.49
1:4:300:LEU:HD22	1:4:332:GLY:O	2.13	0.49
1:A:381:ILE:HG22	1:A:382:PHE:N	2.27	0.49
1:B:214:HIS:ND1	1:s:555:PRO:O	2.44	0.49
1:D:212:PHE:CD1	1:V:560:THR:OG1	2.66	0.49
1:G:389:LEU:CD1	1:G:470:PHE:CE1	2.96	0.49
1:I:125:THR:HG22	1:l:550:SER:C	2.36	0.49
1:J:389:LEU:HD11	1:J:470:PHE:CD1	2.48	0.49
1:K:550:SER:C	1:h:125:THR:HG22	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:560:THR:OG1	1:h:212:PHE:CD1	2.66	0.49
1:M:381:ILE:HG22	1:M:382:PHE:N	2.27	0.49
1:U:381:ILE:HG22	1:U:382:PHE:N	2.28	0.49
1:U:389:LEU:CD1	1:U:470:PHE:CE1	2.96	0.49
1:X:560:THR:OG1	1:t:212:PHE:CE1	2.66	0.49
1:Z:389:LEU:CD1	1:Z:470:PHE:CE1	2.96	0.49
1:a:103:ILE:HD13	1:a:165:MET:SD	2.52	0.49
1:a:389:LEU:HD11	1:a:470:PHE:CD1	2.48	0.49
1:e:300:LEU:HD22	1:e:332:GLY:O	2.13	0.49
1:f:125:THR:HG22	1:q:550:SER:C	2.36	0.49
1:f:212:PHE:CD1	1:q:560:THR:OG1	2.66	0.49
1:i:214:HIS:ND1	1:n:555:PRO:O	2.44	0.49
1:i:389:LEU:HD11	1:i:470:PHE:CD1	2.48	0.49
1:j:389:LEU:CD1	1:j:470:PHE:CE1	2.96	0.49
1:k:103:ILE:HD13	1:k:165:MET:SD	2.52	0.49
1:n:300:LEU:HD22	1:n:332:GLY:O	2.13	0.49
1:p:381:ILE:HG22	1:p:382:PHE:N	2.28	0.49
1:s:381:ILE:HG22	1:s:382:PHE:N	2.28	0.49
1:s:389:LEU:CD1	1:s:470:PHE:CE1	2.96	0.49
1:v:300:LEU:HD22	1:v:332:GLY:O	2.13	0.49
1:y:103:ILE:HD13	1:y:165:MET:SD	2.52	0.49
1:y:389:LEU:CD1	1:y:470:PHE:CE1	2.96	0.49
1:z:389:LEU:CD1	1:z:470:PHE:CE1	2.96	0.49
1:1:212:PHE:CE1	1:u:560:THR:OG1	2.66	0.49
1:2:73:GLN:HE21	1:6:239:ARG:HH21	1.49	0.49
1:2:300:LEU:HD22	1:2:332:GLY:O	2.13	0.49
1:3:389:LEU:HD11	1:3:470:PHE:CD1	2.48	0.49
1:5:212:PHE:CD1	1:F:560:THR:OG1	2.66	0.49
1:5:300:LEU:HD22	1:5:332:GLY:O	2.13	0.49
1:5:389:LEU:HD11	1:5:470:PHE:CD1	2.48	0.49
1:6:103:ILE:HD13	1:6:165:MET:SD	2.52	0.49
1:6:531:GLU:HG2	1:Z:236:ILE:HD11	1.94	0.49
1:7:55:TRP:O	1:i:204:THR:OG1	2.20	0.49
1:C:300:LEU:HD22	1:C:332:GLY:O	2.13	0.49
1:C:550:SER:C	1:a:125:THR:HG22	2.36	0.49
1:E:300:LEU:HD22	1:E:332:GLY:O	2.13	0.49
1:H:389:LEU:HD11	1:H:470:PHE:CD1	2.48	0.49
1:I:159:LEU:HD13	1:I:220:PRO:CG	2.40	0.49
1:I:531:GLU:HG2	1:Q:236:ILE:HD11	1.94	0.49
1:J:300:LEU:HD22	1:J:332:GLY:O	2.13	0.49
1:W:125:THR:CG2	1:b:551:THR:CG2	2.83	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:389:LEU:CD1	1:X:470:PHE:CE1	2.96	0.49
1:Z:103:ILE:HD13	1:Z:165:MET:SD	2.52	0.49
1:Z:212:PHE:CD1	1:w:560:THR:OG1	2.66	0.49
1:Z:214:HIS:ND1	1:w:555:PRO:O	2.44	0.49
1:Z:300:LEU:HD22	1:Z:332:GLY:O	2.13	0.49
1:b:381:ILE:HG22	1:b:382:PHE:N	2.27	0.49
1:d:389:LEU:CD1	1:d:470:PHE:CE1	2.96	0.49
1:g:300:LEU:HD22	1:g:332:GLY:O	2.13	0.49
1:g:389:LEU:CD1	1:g:470:PHE:CE1	2.96	0.49
1:g:555:PRO:O	1:r:214:HIS:ND1	2.44	0.49
1:g:560:THR:OG1	1:r:212:PHE:CE1	2.66	0.49
1:h:159:LEU:HD13	1:h:220:PRO:CG	2.40	0.49
1:h:531:GLU:HG2	1:o:236:ILE:HD11	1.94	0.49
1:i:300:LEU:HD22	1:i:332:GLY:O	2.13	0.49
1:m:389:LEU:CD1	1:m:470:PHE:CE1	2.96	0.49
1:t:389:LEU:CD1	1:t:470:PHE:CE1	2.96	0.49
1:t:389:LEU:HD11	1:t:470:PHE:CD1	2.48	0.49
1:u:300:LEU:HD22	1:u:332:GLY:O	2.13	0.49
1:u:389:LEU:CD1	1:u:470:PHE:CE1	2.96	0.49
1:v:389:LEU:CD1	1:v:470:PHE:CE1	2.96	0.49
1:w:300:LEU:HD22	1:w:332:GLY:O	2.13	0.49
1:x:300:LEU:HD22	1:x:332:GLY:O	2.13	0.49
1:y:300:LEU:HD22	1:y:332:GLY:O	2.13	0.49
1:0:190:LYS:NZ	1:V:190:LYS:HD3	2.20	0.49
1:0:214:HIS:ND1	1:U:555:PRO:O	2.44	0.49
1:1:125:THR:CG2	1:u:551:THR:CG2	2.83	0.49
1:3:236:ILE:HD11	1:P:531:GLU:HG2	1.94	0.49
1:6:214:HIS:ND1	1:c:555:PRO:O	2.44	0.49
1:6:300:LEU:HD22	1:6:332:GLY:O	2.13	0.49
1:6:389:LEU:CD1	1:6:470:PHE:CE1	2.96	0.49
1:7:73:GLN:HE21	1:P:239:ARG:HH21	1.49	0.49
1:A:531:GLU:HG2	1:U:236:ILE:HD11	1.94	0.49
1:B:103:ILE:HD13	1:B:165:MET:SD	2.52	0.49
1:B:125:THR:HG1	1:s:549:MET:HE2	1.70	0.49
1:B:190:LYS:NZ	1:q:190:LYS:HD3	2.20	0.49
1:B:300:LEU:HD22	1:B:332:GLY:O	2.13	0.49
1:C:190:LYS:NZ	1:x:190:LYS:HD3	2.20	0.49
1:D:389:LEU:HD11	1:D:470:PHE:CD1	2.48	0.49
1:E:552:ILE:HG12	1:k:127:THR:HA	1.87	0.49
1:E:560:THR:OG1	1:k:212:PHE:CE1	2.66	0.49
1:F:389:LEU:CD1	1:F:470:PHE:CE1	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:212:PHE:CD1	1:L:560:THR:OG1	2.66	0.49
1:L:389:LEU:CD1	1:L:470:PHE:CE1	2.96	0.49
1:N:300:LEU:HD22	1:N:332:GLY:O	2.13	0.49
1:O:389:LEU:CD1	1:O:470:PHE:CE1	2.96	0.49
1:P:389:LEU:CD1	1:P:470:PHE:CE1	2.96	0.49
1:R:300:LEU:HD22	1:R:332:GLY:O	2.13	0.49
1:R:389:LEU:HD11	1:R:470:PHE:CD1	2.48	0.49
1:R:560:THR:OG1	1:y:212:PHE:CD1	2.66	0.49
1:S:300:LEU:HD22	1:S:332:GLY:O	2.13	0.49
1:T:300:LEU:HD22	1:T:332:GLY:O	2.13	0.49
1:W:389:LEU:HD11	1:W:470:PHE:CD1	2.48	0.49
1:X:560:THR:OG1	1:t:212:PHE:CD1	2.66	0.49
1:Y:103:ILE:HD13	1:Y:165:MET:SD	2.52	0.49
1:Y:389:LEU:HD11	1:Y:470:PHE:CD1	2.48	0.49
1:e:103:ILE:HD13	1:e:165:MET:SD	2.52	0.49
1:f:389:LEU:HD11	1:f:470:PHE:CD1	2.48	0.49
1:g:157:LEU:CD1	1:g:219:ILE:HG23	2.37	0.49
1:g:159:LEU:HD13	1:g:220:PRO:CG	2.40	0.49
1:i:389:LEU:CD1	1:i:470:PHE:CE1	2.96	0.49
1:i:531:GLU:HG2	1:y:236:ILE:HD11	1.94	0.49
1:w:381:ILE:HG22	1:w:382:PHE:N	2.28	0.49
1:z:389:LEU:HD11	1:z:470:PHE:CD1	2.48	0.49
1:0:103:ILE:HD13	1:0:165:MET:SD	2.52	0.49
1:0:300:LEU:HD22	1:0:332:GLY:O	2.13	0.49
1:4:103:ILE:HD13	1:4:165:MET:SD	2.52	0.49
1:6:550:SER:C	1:c:125:THR:HG22	2.36	0.49
1:6:552:ILE:HG12	1:c:127:THR:HA	1.87	0.49
1:6:558:GLN:HB2	1:c:130:PRO:HB3	1.93	0.49
1:7:87:GLU:OE2	1:P:395:LYS:HG3	2.13	0.49
1:7:300:LEU:HD22	1:7:332:GLY:O	2.13	0.49
1:C:125:THR:HG22	1:a:550:SER:C	2.36	0.49
1:C:190:LYS:HD3	1:L:190:LYS:NZ	2.20	0.49
1:C:389:LEU:CD1	1:C:470:PHE:CE1	2.96	0.49
1:C:389:LEU:HD11	1:C:470:PHE:CD1	2.48	0.49
1:C:560:THR:OG1	1:a:212:PHE:CE1	2.66	0.49
1:D:560:THR:OG1	1:V:212:PHE:CD1	2.66	0.49
1:F:103:ILE:HD13	1:F:165:MET:SD	2.52	0.49
1:H:550:SER:C	1:S:125:THR:HG22	2.36	0.49
1:H:560:THR:OG1	1:S:212:PHE:CD1	2.66	0.49
1:I:236:ILE:HD11	1:e:531:GLU:HG2	1.94	0.49
1:I:381:ILE:HG22	1:I:382:PHE:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:103:ILE:HD13	1:L:165:MET:SD	2.52	0.49
1:M:212:PHE:CE1	1:p:560:THR:OG1	2.66	0.49
1:O:395:LYS:HG3	1:T:87:GLU:OE2	2.13	0.49
1:R:381:ILE:HG22	1:R:382:PHE:N	2.28	0.49
1:T:381:ILE:HG22	1:T:382:PHE:N	2.28	0.49
1:V:531:GLU:HG2	1:j:236:ILE:HD11	1.94	0.49
1:Y:159:LEU:HD13	1:Y:220:PRO:CG	2.40	0.49
1:b:531:GLU:HG2	1:s:236:ILE:HD11	1.94	0.49
1:d:395:LYS:HG3	1:q:87:GLU:OE2	2.13	0.49
1:f:560:THR:OG1	1:q:212:PHE:CD1	2.66	0.49
1:h:381:ILE:HG22	1:h:382:PHE:N	2.28	0.49
1:i:558:GLN:HB2	1:n:130:PRO:HB3	1.93	0.49
1:k:381:ILE:HG22	1:k:382:PHE:N	2.28	0.49
1:m:103:ILE:HD13	1:m:165:MET:SD	2.52	0.49
1:m:560:THR:OG1	1:z:212:PHE:CD1	2.66	0.49
1:p:389:LEU:CD1	1:p:470:PHE:CE1	2.96	0.49
1:t:300:LEU:HD22	1:t:332:GLY:O	2.13	0.49
1:u:159:LEU:HD13	1:u:220:PRO:CG	2.40	0.49
1:w:389:LEU:HD11	1:w:470:PHE:CD1	2.48	0.49
1:0:125:THR:HG1	1:U:549:MET:HE2	1.70	0.49
1:0:389:LEU:HD11	1:0:470:PHE:CD1	2.48	0.49
1:1:300:LEU:HD22	1:1:332:GLY:O	2.13	0.49
1:4:125:THR:HG22	1:O:550:SER:C	2.36	0.49
1:4:531:GLU:HG2	1:h:236:ILE:HD11	1.94	0.49
1:7:381:ILE:HG22	1:7:382:PHE:N	2.28	0.49
1:A:214:HIS:ND1	1:Y:555:PRO:O	2.44	0.49
1:D:212:PHE:CE1	1:V:560:THR:OG1	2.66	0.49
1:E:389:LEU:HD11	1:E:470:PHE:CD1	2.48	0.49
1:E:389:LEU:CD1	1:E:470:PHE:CE1	2.96	0.49
1:E:531:GLU:HG2	1:S:236:ILE:HD11	1.94	0.49
1:E:550:SER:C	1:k:125:THR:HG22	2.36	0.49
1:H:236:ILE:HD11	1:O:531:GLU:HG2	1.94	0.49
1:M:389:LEU:HD11	1:M:470:PHE:CD1	2.48	0.49
1:O:300:LEU:HD22	1:O:332:GLY:O	2.13	0.49
1:P:300:LEU:HD22	1:P:332:GLY:O	2.13	0.49
1:T:103:ILE:HD13	1:T:165:MET:SD	2.52	0.49
1:W:103:ILE:HD13	1:W:165:MET:SD	2.52	0.49
1:X:389:LEU:HD11	1:X:470:PHE:CD1	2.48	0.49
1:a:381:ILE:HG22	1:a:382:PHE:N	2.28	0.49
1:d:130:PRO:HB3	1:v:558:GLN:HB2	1.93	0.49
1:d:236:ILE:HD11	1:q:531:GLU:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:236:ILE:HD11	1:t:531:GLU:HG2	1.94	0.49
1:f:212:PHE:CE1	1:q:560:THR:OG1	2.66	0.49
1:g:551:THR:CG2	1:r:125:THR:CG2	2.83	0.49
1:i:103:ILE:HD13	1:i:165:MET:SD	2.52	0.49
1:r:300:LEU:HD22	1:r:332:GLY:O	2.13	0.49
1:t:381:ILE:HG22	1:t:382:PHE:N	2.28	0.49
1:z:300:LEU:HD22	1:z:332:GLY:O	2.13	0.49
1:2:389:LEU:CD1	1:2:470:PHE:CE1	2.96	0.49
1:3:127:THR:HA	1:x:552:ILE:HG12	1.87	0.49
1:3:389:LEU:CD1	1:3:470:PHE:CE1	2.96	0.49
1:4:236:ILE:HD11	1:z:531:GLU:HG2	1.94	0.49
1:7:103:ILE:HD13	1:7:165:MET:SD	2.52	0.49
1:7:212:PHE:CD1	1:N:560:THR:OG1	2.66	0.49
1:A:551:THR:CG2	1:Y:125:THR:CG2	2.83	0.49
1:B:389:LEU:HD11	1:B:470:PHE:CD1	2.48	0.49
1:B:389:LEU:CD1	1:B:470:PHE:CE1	2.96	0.49
1:D:103:ILE:HD13	1:D:165:MET:SD	2.52	0.49
1:G:558:GLN:HB2	1:j:130:PRO:HB3	1.93	0.49
1:G:560:THR:OG1	1:j:212:PHE:CE1	2.66	0.49
1:M:389:LEU:CD1	1:M:470:PHE:CE1	2.96	0.49
1:M:531:GLU:HG2	1:f:236:ILE:HD11	1.94	0.49
1:M:560:THR:OG1	1:p:212:PHE:CE1	2.66	0.49
1:N:389:LEU:CD1	1:N:470:PHE:CE1	2.96	0.49
1:Q:212:PHE:CE1	1:o:560:THR:OG1	2.66	0.49
1:Q:560:THR:OG1	1:o:212:PHE:CE1	2.66	0.49
1:W:87:GLU:OE2	1:a:395:LYS:HG3	2.13	0.49
1:W:389:LEU:CD1	1:W:470:PHE:CE1	2.96	0.49
1:Y:389:LEU:CD1	1:Y:470:PHE:CE1	2.96	0.49
1:Y:531:GLU:HG2	1:k:236:ILE:HD11	1.94	0.49
1:b:159:LEU:HD13	1:b:220:PRO:CG	2.40	0.49
1:b:300:LEU:HD22	1:b:332:GLY:O	2.13	0.49
1:c:381:ILE:HG22	1:c:382:PHE:N	2.28	0.49
1:c:389:LEU:CD1	1:c:470:PHE:CE1	2.96	0.49
1:d:212:PHE:CE1	1:v:560:THR:OG1	2.66	0.49
1:f:103:ILE:HD13	1:f:165:MET:SD	2.52	0.49
1:g:212:PHE:CD1	1:r:560:THR:OG1	2.66	0.49
1:l:389:LEU:HD11	1:l:470:PHE:CD1	2.48	0.49
1:p:103:ILE:HD13	1:p:165:MET:SD	2.52	0.49
1:p:389:LEU:HD11	1:p:470:PHE:CD1	2.48	0.49
1:w:159:LEU:HD13	1:w:220:PRO:CG	2.40	0.49
1:z:381:ILE:HG22	1:z:382:PHE:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:389:LEU:CD1	1:0:470:PHE:CE1	2.96	0.48
1:1:389:LEU:HD11	1:1:470:PHE:CD1	2.48	0.48
1:1:395:LYS:HG3	1:y:87:GLU:OE2	2.13	0.48
1:1:560:THR:OG1	1:u:212:PHE:CD1	2.66	0.48
1:2:204:THR:OG1	1:h:55:TRP:O	2.20	0.48
1:2:560:THR:OG1	1:T:212:PHE:CD1	2.66	0.48
1:3:550:SER:C	1:x:125:THR:HG22	2.36	0.48
1:4:552:ILE:CG1	1:O:127:THR:CG2	2.63	0.48
1:7:389:LEU:CD1	1:7:470:PHE:CE1	2.96	0.48
1:A:300:LEU:HD22	1:A:332:GLY:O	2.13	0.48
1:C:103:ILE:HD13	1:C:165:MET:SD	2.52	0.48
1:C:531:GLU:HG2	1:x:236:ILE:HD11	1.94	0.48
1:D:236:ILE:HD11	1:p:531:GLU:HG2	1.94	0.48
1:D:389:LEU:CD1	1:D:470:PHE:CE1	2.96	0.48
1:H:389:LEU:CD1	1:H:470:PHE:CE1	2.96	0.48
1:I:87:GLU:OE2	1:Q:395:LYS:HG3	2.13	0.48
1:I:300:LEU:HD22	1:I:332:GLY:O	2.13	0.48
1:I:560:THR:OG1	1:l:212:PHE:CD1	2.66	0.48
1:K:389:LEU:HD11	1:K:470:PHE:CD1	2.48	0.48
1:O:389:LEU:HD11	1:O:470:PHE:CD1	2.48	0.48
1:S:381:ILE:HG22	1:S:382:PHE:N	2.28	0.48
1:T:389:LEU:CD1	1:T:470:PHE:CE1	2.96	0.48
1:V:389:LEU:HD11	1:V:470:PHE:CD1	2.48	0.48
1:W:159:LEU:HD13	1:W:220:PRO:CG	2.40	0.48
1:W:300:LEU:HD22	1:W:332:GLY:O	2.13	0.48
1:W:531:GLU:HG2	1:a:236:ILE:HD11	1.94	0.48
1:W:555:PRO:O	1:b:214:HIS:ND1	2.44	0.48
1:X:103:ILE:HD13	1:X:165:MET:SD	2.52	0.48
1:Y:87:GLU:OE2	1:k:395:LYS:HG3	2.13	0.48
1:Y:300:LEU:HD22	1:Y:332:GLY:O	2.13	0.48
1:Z:87:GLU:OE2	1:r:395:LYS:HG3	2.13	0.48
1:d:300:LEU:HD22	1:d:332:GLY:O	2.13	0.48
1:f:389:LEU:CD1	1:f:470:PHE:CE1	2.96	0.48
1:h:87:GLU:OE2	1:o:395:LYS:HG3	2.13	0.48
1:h:389:LEU:CD1	1:h:470:PHE:CE1	2.96	0.48
1:i:550:SER:C	1:n:125:THR:HG22	2.36	0.48
1:k:531:GLU:HG2	1:v:236:ILE:HD11	1.94	0.48
1:m:389:LEU:HD11	1:m:470:PHE:CD1	2.48	0.48
1:m:555:PRO:O	1:z:214:HIS:ND1	2.44	0.48
1:n:381:ILE:HG22	1:n:382:PHE:N	2.28	0.48
1:n:389:LEU:CD1	1:n:470:PHE:CE1	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:389:LEU:HD11	1:r:470:PHE:CD1	2.48	0.48
1:4:560:THR:OG1	1:O:212:PHE:CE1	2.66	0.48
1:5:381:ILE:HG22	1:5:382:PHE:N	2.28	0.48
1:A:159:LEU:HD13	1:A:220:PRO:CG	2.40	0.48
1:E:103:ILE:HD13	1:E:165:MET:SD	2.52	0.48
1:I:389:LEU:CD1	1:I:470:PHE:CE1	2.96	0.48
1:I:389:LEU:HD11	1:I:470:PHE:CD1	2.48	0.48
1:J:381:ILE:HG22	1:J:382:PHE:N	2.28	0.48
1:K:212:PHE:CD1	1:h:560:THR:OG1	2.66	0.48
1:M:103:ILE:HD13	1:M:165:MET:SD	2.52	0.48
1:N:250:LEU:HG	1:N:473:LEU:HD11	1.96	0.48
1:O:381:ILE:HG22	1:O:382:PHE:N	2.28	0.48
1:P:381:ILE:HG22	1:P:382:PHE:N	2.28	0.48
1:P:389:LEU:HD11	1:P:470:PHE:CD1	2.48	0.48
1:Q:212:PHE:CD1	1:o:560:THR:OG1	2.66	0.48
1:Q:389:LEU:HD11	1:Q:470:PHE:CD1	2.48	0.48
1:Q:560:THR:OG1	1:o:212:PHE:CD1	2.66	0.48
1:R:159:LEU:HD13	1:R:220:PRO:CG	2.40	0.48
1:W:560:THR:OG1	1:b:212:PHE:CE1	2.66	0.48
1:X:300:LEU:HD22	1:X:332:GLY:O	2.13	0.48
1:X:531:GLU:HG2	1:w:236:ILE:HD11	1.94	0.48
1:Z:250:LEU:HG	1:Z:473:LEU:HD11	1.95	0.48
1:g:389:LEU:HD11	1:g:470:PHE:CD1	2.48	0.48
1:g:552:ILE:HG12	1:r:127:THR:HA	1.87	0.48
1:k:87:GLU:OE2	1:v:395:LYS:HG3	2.13	0.48
1:l:300:LEU:HD22	1:l:332:GLY:O	2.13	0.48
1:q:300:LEU:HD22	1:q:332:GLY:O	2.13	0.48
1:q:389:LEU:HD11	1:q:470:PHE:CD1	2.48	0.48
1:y:250:LEU:HG	1:y:473:LEU:HD11	1.95	0.48
1:1:389:LEU:CD1	1:1:470:PHE:CE1	2.96	0.48
1:2:250:LEU:HG	1:2:473:LEU:HD11	1.96	0.48
1:2:389:LEU:HD11	1:2:470:PHE:CD1	2.48	0.48
1:3:87:GLU:OE2	1:b:395:LYS:HG3	2.13	0.48
1:5:531:GLU:HG2	1:n:236:ILE:HD11	1.94	0.48
1:A:204:THR:OG1	1:S:55:TRP:O	2.20	0.48
1:A:389:LEU:CD1	1:A:470:PHE:CE1	2.96	0.48
1:B:87:GLU:OE2	1:q:395:LYS:HG3	2.13	0.48
1:B:560:THR:OG1	1:s:212:PHE:CE1	2.66	0.48
1:G:236:ILE:HD11	1:a:531:GLU:HG2	1.94	0.48
1:G:395:LYS:HG3	1:a:87:GLU:OE2	2.13	0.48
1:G:560:THR:OG1	1:j:212:PHE:CD1	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:212:PHE:CE1	1:h:560:THR:OG1	2.66	0.48
1:L:381:ILE:HG22	1:L:382:PHE:N	2.28	0.48
1:P:212:PHE:CE1	1:e:560:THR:OG1	2.66	0.48
1:Q:87:GLU:OE2	1:g:395:LYS:HG3	2.13	0.48
1:Q:531:GLU:HG2	1:g:236:ILE:HD11	1.94	0.48
1:S:250:LEU:HG	1:S:473:LEU:HD11	1.95	0.48
1:S:389:LEU:CD1	1:S:470:PHE:CE1	2.96	0.48
1:V:87:GLU:OE2	1:j:395:LYS:HG3	2.13	0.48
1:V:190:LYS:NZ	1:j:190:LYS:HD3	2.20	0.48
1:V:300:LEU:HD22	1:V:332:GLY:O	2.13	0.48
1:X:555:PRO:O	1:t:214:HIS:ND1	2.44	0.48
1:a:389:LEU:CD1	1:a:470:PHE:CE1	2.96	0.48
1:b:389:LEU:HD11	1:b:470:PHE:CD1	2.48	0.48
1:d:190:LYS:HD3	1:q:190:LYS:NZ	2.20	0.48
1:h:300:LEU:HD22	1:h:332:GLY:O	2.13	0.48
1:h:389:LEU:HD11	1:h:470:PHE:CD1	2.48	0.48
1:i:555:PRO:O	1:n:214:HIS:ND1	2.44	0.48
1:m:300:LEU:HD22	1:m:332:GLY:O	2.13	0.48
1:o:389:LEU:HD11	1:o:470:PHE:CD1	2.48	0.48
1:o:531:GLU:HG2	1:u:236:ILE:HD11	1.94	0.48
1:r:389:LEU:CD1	1:r:470:PHE:CE1	2.96	0.48
1:u:389:LEU:HD11	1:u:470:PHE:CD1	2.48	0.48
1:w:389:LEU:CD1	1:w:470:PHE:CE1	2.96	0.48
1:x:381:ILE:HG22	1:x:382:PHE:N	2.28	0.48
1:0:87:GLU:OE2	1:V:395:LYS:HG3	2.13	0.48
1:0:381:ILE:HG22	1:0:382:PHE:N	2.27	0.48
1:3:395:LYS:HG3	1:P:87:GLU:OE2	2.13	0.48
1:5:190:LYS:HD3	1:d:190:LYS:NZ	2.20	0.48
1:5:389:LEU:CD1	1:5:470:PHE:CE1	2.96	0.48
1:6:87:GLU:OE2	1:Z:395:LYS:HG3	2.13	0.48
1:A:87:GLU:OE2	1:U:395:LYS:HG3	2.13	0.48
1:A:212:PHE:CE1	1:Y:560:THR:OG1	2.66	0.48
1:A:395:LYS:HG3	1:H:87:GLU:OE2	2.13	0.48
1:B:531:GLU:HG2	1:q:236:ILE:HD11	1.94	0.48
1:C:555:PRO:O	1:a:214:HIS:ND1	2.44	0.48
1:F:381:ILE:HG22	1:F:382:PHE:N	2.28	0.48
1:G:87:GLU:OE2	1:M:395:LYS:HG3	2.13	0.48
1:G:381:ILE:HG22	1:G:382:PHE:N	2.28	0.48
1:H:212:PHE:CD1	1:S:560:THR:OG1	2.66	0.48
1:H:395:LYS:HG3	1:O:87:GLU:OE2	2.13	0.48
1:I:560:THR:OG1	1:l:212:PHE:CE1	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:190:LYS:HD3	1:j:190:LYS:NZ	2.20	0.48
1:J:531:GLU:HG2	1:c:236:ILE:HD11	1.94	0.48
1:K:300:LEU:HD22	1:K:332:GLY:O	2.13	0.48
1:K:389:LEU:CD1	1:K:470:PHE:CE1	2.96	0.48
1:N:389:LEU:HD11	1:N:470:PHE:CD1	2.48	0.48
1:P:127:THR:CG2	1:e:552:ILE:CG1	2.63	0.48
1:P:560:THR:OG1	1:e:212:PHE:CE1	2.66	0.48
1:Q:250:LEU:HG	1:Q:473:LEU:HD11	1.96	0.48
1:R:236:ILE:HD11	1:m:531:GLU:HG2	1.94	0.48
1:R:389:LEU:CD1	1:R:470:PHE:CE1	2.96	0.48
1:T:159:LEU:HD13	1:T:220:PRO:CG	2.40	0.48
1:W:395:LYS:HG3	1:f:87:GLU:OE2	2.13	0.48
1:Z:381:ILE:HG22	1:Z:382:PHE:N	2.27	0.48
1:a:250:LEU:HG	1:a:473:LEU:HD11	1.95	0.48
1:b:87:GLU:OE2	1:s:395:LYS:HG3	2.13	0.48
1:b:389:LEU:CD1	1:b:470:PHE:CE1	2.96	0.48
1:d:212:PHE:CD1	1:v:560:THR:OG1	2.66	0.48
1:f:381:ILE:HG22	1:f:382:PHE:N	2.27	0.48
1:i:381:ILE:HG22	1:i:382:PHE:N	2.28	0.48
1:i:552:ILE:HG12	1:n:127:THR:HA	1.87	0.48
1:j:300:LEU:HD22	1:j:332:GLY:O	2.13	0.48
1:k:389:LEU:CD1	1:k:470:PHE:CE1	2.96	0.48
1:o:87:GLU:OE2	1:u:395:LYS:HG3	2.13	0.48
1:o:381:ILE:HG22	1:o:382:PHE:N	2.28	0.48
1:p:395:LYS:HG3	1:v:87:GLU:OE2	2.13	0.48
1:x:250:LEU:HG	1:x:473:LEU:HD11	1.96	0.48
1:x:389:LEU:CD1	1:x:470:PHE:CE1	2.96	0.48
1:0:560:THR:OG1	1:U:212:PHE:CE1	2.66	0.48
1:2:560:THR:OG1	1:T:212:PHE:CE1	2.66	0.48
1:3:250:LEU:HG	1:3:473:LEU:HD11	1.96	0.48
1:4:212:PHE:CE1	1:O:560:THR:OG1	2.66	0.48
1:4:389:LEU:CD1	1:4:470:PHE:CE1	2.96	0.48
1:6:381:ILE:HG22	1:6:382:PHE:N	2.27	0.48
1:7:159:LEU:HD13	1:7:220:PRO:CG	2.40	0.48
1:A:550:SER:C	1:Y:125:THR:HG22	2.36	0.48
1:A:560:THR:OG1	1:Y:212:PHE:CE1	2.66	0.48
1:B:381:ILE:HG22	1:B:382:PHE:N	2.27	0.48
1:B:395:LYS:HG3	1:n:87:GLU:OE2	2.13	0.48
1:C:395:LYS:HG3	1:L:87:GLU:OE2	2.13	0.48
1:D:87:GLU:OE2	1:Y:395:LYS:HG3	2.13	0.48
1:D:381:ILE:HG22	1:D:382:PHE:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:555:PRO:O	1:k:214:HIS:ND1	2.44	0.48
1:E:560:THR:OG1	1:k:212:PHE:CD1	2.66	0.48
1:G:212:PHE:CD1	1:j:560:THR:OG1	2.66	0.48
1:H:250:LEU:HG	1:H:473:LEU:HD11	1.95	0.48
1:J:389:LEU:CD1	1:J:470:PHE:CE1	2.96	0.48
1:K:250:LEU:HG	1:K:473:LEU:HD11	1.95	0.48
1:Q:389:LEU:CD1	1:Q:470:PHE:CE1	2.96	0.48
1:R:395:LYS:HG3	1:m:87:GLU:OE2	2.13	0.48
1:W:125:THR:HG22	1:b:550:SER:C	2.36	0.48
1:X:250:LEU:HG	1:X:473:LEU:HD11	1.95	0.48
1:X:550:SER:C	1:t:125:THR:HG22	2.36	0.48
1:Z:389:LEU:HD11	1:Z:470:PHE:CD1	2.48	0.48
1:Z:560:THR:OG1	1:w:212:PHE:CD1	2.66	0.48
1:a:300:LEU:HD22	1:a:332:GLY:O	2.13	0.48
1:b:204:THR:OG1	1:x:55:TRP:O	2.20	0.48
1:d:560:THR:OG1	1:v:212:PHE:CD1	2.66	0.48
1:d:560:THR:OG1	1:v:212:PHE:CE1	2.66	0.48
1:e:389:LEU:CD1	1:e:470:PHE:CE1	2.96	0.48
1:i:87:GLU:OE2	1:y:395:LYS:HG3	2.13	0.48
1:k:250:LEU:HG	1:k:473:LEU:HD11	1.96	0.48
1:k:300:LEU:HD22	1:k:332:GLY:O	2.13	0.48
1:l:250:LEU:HG	1:l:473:LEU:HD11	1.95	0.48
1:l:389:LEU:CD1	1:l:470:PHE:CE1	2.96	0.48
1:m:550:SER:C	1:z:125:THR:HG22	2.36	0.48
1:o:250:LEU:HG	1:o:473:LEU:HD11	1.96	0.48
1:o:389:LEU:CD1	1:o:470:PHE:CE1	2.96	0.48
1:q:389:LEU:CD1	1:q:470:PHE:CE1	2.96	0.48
1:v:381:ILE:HG22	1:v:382:PHE:N	2.28	0.48
1:y:381:ILE:HG22	1:y:382:PHE:N	2.27	0.48
1:0:212:PHE:CE1	1:U:560:THR:OG1	2.66	0.48
1:0:531:GLU:HG2	1:V:236:ILE:HD11	1.94	0.48
1:6:555:PRO:O	1:c:214:HIS:ND1	2.44	0.48
1:7:212:PHE:CE1	1:N:560:THR:OG1	2.66	0.48
1:A:389:LEU:HD11	1:A:470:PHE:CD1	2.48	0.48
1:C:560:THR:OG1	1:a:212:PHE:CD1	2.66	0.48
1:E:395:LYS:HG3	1:F:87:GLU:OE2	2.13	0.48
1:F:236:ILE:HD11	1:R:531:GLU:HG2	1.94	0.48
1:G:212:PHE:CE1	1:j:560:THR:OG1	2.66	0.48
1:H:381:ILE:HG22	1:H:382:PHE:N	2.28	0.48
1:I:55:TRP:O	1:N:204:THR:OG1	2.20	0.48
1:J:125:THR:HG22	1:L:550:SER:C	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:212:PHE:CD1	1:p:560:THR:OG1	2.66	0.48
1:O:236:ILE:HD11	1:T:531:GLU:HG2	1.94	0.48
1:Q:300:LEU:HD22	1:Q:332:GLY:O	2.13	0.48
1:V:389:LEU:CD1	1:V:470:PHE:CE1	2.96	0.48
1:W:212:PHE:CE1	1:b:560:THR:OG1	2.66	0.48
1:W:381:ILE:HG22	1:W:382:PHE:N	2.28	0.48
1:X:87:GLU:OE2	1:w:395:LYS:HG3	2.13	0.48
1:X:395:LYS:HG3	1:x:87:GLU:OE2	2.13	0.48
1:Y:381:ILE:HG22	1:Y:382:PHE:N	2.28	0.48
1:q:381:ILE:HG22	1:q:382:PHE:N	2.28	0.48
1:y:389:LEU:HD11	1:y:470:PHE:CD1	2.48	0.48
1:0:395:LYS:HG3	1:c:87:GLU:OE2	2.13	0.48
1:2:212:PHE:CE1	1:T:560:THR:OG1	2.66	0.48
1:4:381:ILE:HG22	1:4:382:PHE:N	2.28	0.48
1:7:531:GLU:HG2	1:P:236:ILE:HD11	1.94	0.48
1:B:212:PHE:CE1	1:s:560:THR:OG1	2.66	0.48
1:C:381:ILE:HG22	1:C:382:PHE:N	2.28	0.48
1:G:127:THR:HA	1:j:552:ILE:HG12	1.87	0.48
1:J:395:LYS:HG3	1:j:87:GLU:OE2	2.13	0.48
1:L:236:ILE:HD11	1:w:531:GLU:HG2	1.94	0.48
1:M:560:THR:OG1	1:p:212:PHE:CD1	2.66	0.48
1:Q:381:ILE:HG22	1:Q:382:PHE:N	2.28	0.48
1:R:212:PHE:CD1	1:y:560:THR:OG1	2.66	0.48
1:X:125:THR:CG2	1:t:551:THR:CG2	2.83	0.48
1:X:125:THR:HG22	1:t:550:SER:C	2.36	0.48
1:e:381:ILE:HG22	1:e:382:PHE:N	2.28	0.48
1:j:381:ILE:HG22	1:j:382:PHE:N	2.28	0.48
1:m:125:THR:HG22	1:z:550:SER:C	2.36	0.48
1:m:250:LEU:HG	1:m:473:LEU:HD11	1.95	0.48
1:2:550:SER:C	1:T:125:THR:HG22	2.36	0.48
1:3:381:ILE:HG22	1:3:382:PHE:N	2.28	0.48
1:4:214:HIS:ND1	1:O:555:PRO:O	2.44	0.48
1:5:190:LYS:NZ	1:n:190:LYS:HD3	2.20	0.48
1:D:250:LEU:HG	1:D:473:LEU:HD11	1.95	0.48
1:E:381:ILE:HG22	1:E:382:PHE:N	2.28	0.48
1:I:395:LYS:HG3	1:e:87:GLU:OE2	2.13	0.48
1:O:250:LEU:HG	1:O:473:LEU:HD11	1.96	0.48
1:P:212:PHE:CD1	1:e:560:THR:OG1	2.66	0.48
1:S:87:GLU:OE2	1:m:395:LYS:HG3	2.13	0.48
1:V:381:ILE:HG22	1:V:382:PHE:N	2.28	0.48
1:d:125:THR:HG1	1:v:549:MET:HE2	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:127:THR:CG2	1:v:552:ILE:CG1	2.64	0.48
1:d:250:LEU:HG	1:d:473:LEU:HD11	1.95	0.48
1:g:87:GLU:OE2	1:t:395:LYS:HG3	2.13	0.48
1:o:300:LEU:HD22	1:o:332:GLY:O	2.13	0.48
1:r:250:LEU:HG	1:r:473:LEU:HD11	1.95	0.48
1:s:250:LEU:HG	1:s:473:LEU:HD11	1.95	0.48
1:1:250:LEU:HG	1:1:473:LEU:HD11	1.95	0.48
1:4:87:GLU:OE2	1:h:395:LYS:HG3	2.13	0.48
1:4:395:LYS:HG3	1:z:87:GLU:OE2	2.13	0.48
1:5:395:LYS:HG3	1:d:87:GLU:OE2	2.13	0.48
1:5:550:SER:C	1:F:125:THR:HG22	2.36	0.48
1:7:560:THR:OG1	1:N:212:PHE:CE1	2.66	0.48
1:B:212:PHE:CD1	1:s:560:THR:OG1	2.66	0.48
1:B:560:THR:OG1	1:s:212:PHE:CD1	2.66	0.48
1:I:552:ILE:CG1	1:l:127:THR:CG2	2.64	0.48
1:J:190:LYS:NZ	1:c:190:LYS:HD3	2.20	0.48
1:P:250:LEU:HG	1:P:473:LEU:HD11	1.96	0.48
1:d:381:ILE:HG22	1:d:382:PHE:N	2.28	0.48
1:f:250:LEU:HG	1:f:473:LEU:HD11	1.95	0.48
1:s:300:LEU:HD22	1:s:332:GLY:O	2.13	0.48
1:0:212:PHE:CD1	1:U:560:THR:OG1	2.66	0.48
1:2:239:ARG:HH21	1:K:73:GLN:HE21	1.49	0.48
1:4:560:THR:OG1	1:O:212:PHE:CD1	2.66	0.48
1:B:250:LEU:HG	1:B:473:LEU:HD11	1.95	0.48
1:F:250:LEU:HG	1:F:473:LEU:HD11	1.95	0.48
1:L:250:LEU:HG	1:L:473:LEU:HD11	1.95	0.48
1:L:395:LYS:HG3	1:w:87:GLU:OE2	2.13	0.48
1:M:300:LEU:HD22	1:M:332:GLY:O	2.13	0.48
1:U:250:LEU:HG	1:U:473:LEU:HD11	1.95	0.48
1:U:300:LEU:HD22	1:U:332:GLY:O	2.13	0.48
1:W:212:PHE:CD1	1:b:560:THR:OG1	2.66	0.48
1:j:250:LEU:HG	1:j:473:LEU:HD11	1.96	0.48
1:m:125:THR:CG2	1:z:551:THR:CG2	2.83	0.48
1:n:250:LEU:HG	1:n:473:LEU:HD11	1.96	0.48
1:u:87:GLU:OE2	1:z:395:LYS:HG3	2.13	0.48
1:0:250:LEU:HG	1:0:473:LEU:HD11	1.95	0.47
1:0:560:THR:OG1	1:U:212:PHE:CD1	2.66	0.47
1:5:125:THR:HG22	1:F:550:SER:C	2.36	0.47
1:6:560:THR:OG1	1:c:212:PHE:CD1	2.66	0.47
1:D:395:LYS:HG3	1:p:87:GLU:OE2	2.13	0.47
1:J:550:SER:C	1:L:125:THR:HG22	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:127:THR:CG2	1:h:552:ILE:CG1	2.64	0.47
1:V:250:LEU:HG	1:V:473:LEU:HD11	1.95	0.47
1:c:250:LEU:HG	1:c:473:LEU:HD11	1.96	0.47
1:e:395:LYS:HG3	1:t:87:GLU:OE2	2.13	0.47
1:p:300:LEU:HD22	1:p:332:GLY:O	2.13	0.47
1:q:250:LEU:HG	1:q:473:LEU:HD11	1.95	0.47
1:A:560:THR:OG1	1:Y:212:PHE:CD1	2.66	0.47
1:D:560:THR:OG1	1:V:212:PHE:CE1	2.66	0.47
1:E:190:LYS:NZ	1:S:190:LYS:HD3	2.20	0.47
1:F:395:LYS:HG3	1:R:87:GLU:OE2	2.13	0.47
1:G:549:MET:HE2	1:j:125:THR:HG1	1.72	0.47
1:H:555:PRO:O	1:S:214:HIS:ND1	2.44	0.47
1:M:87:GLU:OE2	1:f:395:LYS:HG3	2.13	0.47
1:N:239:ARG:HH21	1:l:73:GLN:HE21	1.49	0.47
1:R:250:LEU:HG	1:R:473:LEU:HD11	1.95	0.47
1:W:560:THR:OG1	1:b:212:PHE:CD1	2.66	0.47
1:d:552:ILE:HG12	1:v:127:THR:HA	1.87	0.47
1:e:250:LEU:HG	1:e:473:LEU:HD11	1.95	0.47
1:i:560:THR:OG1	1:n:212:PHE:CD1	2.66	0.47
1:w:250:LEU:HG	1:w:473:LEU:HD11	1.95	0.47
1:0:190:LYS:HD3	1:c:190:LYS:NZ	2.20	0.47
1:4:250:LEU:HG	1:4:473:LEU:HD11	1.95	0.47
1:5:250:LEU:HG	1:5:473:LEU:HD11	1.96	0.47
1:7:125:THR:HG22	1:N:550:SER:C	2.36	0.47
1:J:87:GLU:OE2	1:c:395:LYS:HG3	2.13	0.47
1:J:250:LEU:HG	1:J:473:LEU:HD11	1.96	0.47
1:f:560:THR:OG1	1:q:212:PHE:CE1	2.66	0.47
1:t:250:LEU:HG	1:t:473:LEU:HD11	1.95	0.47
1:3:212:PHE:CD1	1:x:560:THR:OG1	2.66	0.47
1:3:555:PRO:O	1:x:214:HIS:ND1	2.44	0.47
1:5:87:GLU:OE2	1:n:395:LYS:HG3	2.13	0.47
1:A:212:PHE:CD1	1:Y:560:THR:OG1	2.66	0.47
1:B:190:LYS:HD3	1:n:190:LYS:NZ	2.20	0.47
1:C:160:ARG:HE	1:L:558:GLN:NE2	2.13	0.47
1:G:250:LEU:HG	1:G:473:LEU:HD11	1.96	0.47
1:H:212:PHE:CE1	1:S:560:THR:OG1	2.66	0.47
1:M:250:LEU:HG	1:M:473:LEU:HD11	1.96	0.47
1:Y:558:GLN:NE2	1:k:160:ARG:HE	2.13	0.47
1:g:560:THR:OG1	1:r:212:PHE:CD1	2.66	0.47
1:v:250:LEU:HG	1:v:473:LEU:HD11	1.96	0.47
1:z:250:LEU:HG	1:z:473:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:549:MET:HE1	1:U:124:HIS:CE1	2.50	0.47
1:1:212:PHE:CD1	1:u:560:THR:OG1	2.66	0.47
1:3:549:MET:HE1	1:x:124:HIS:CE1	2.50	0.47
1:E:160:ARG:HE	1:F:558:GLN:NE2	2.13	0.47
1:H:300:LEU:HD22	1:H:332:GLY:O	2.13	0.47
1:H:549:MET:HE1	1:S:124:HIS:CE1	2.50	0.47
1:M:549:MET:HE1	1:p:124:HIS:CE1	2.50	0.47
1:W:558:GLN:NE2	1:a:160:ARG:HE	2.13	0.47
1:X:124:HIS:CE1	1:t:549:MET:HE1	2.50	0.47
1:X:160:ARG:HE	1:x:558:GLN:NE2	2.13	0.47
1:m:124:HIS:CE1	1:z:549:MET:HE1	2.50	0.47
1:p:250:LEU:HG	1:p:473:LEU:HD11	1.96	0.47
1:0:124:HIS:CE1	1:U:549:MET:HE1	2.50	0.47
1:2:549:MET:HE1	1:T:124:HIS:CE1	2.50	0.47
1:3:212:PHE:CE1	1:x:560:THR:OG1	2.66	0.47
1:3:300:LEU:HD22	1:3:332:GLY:O	2.13	0.47
1:4:160:ARG:HE	1:z:558:GLN:NE2	2.13	0.47
1:7:124:HIS:CE1	1:N:549:MET:HE1	2.50	0.47
1:B:124:HIS:CE1	1:s:549:MET:HE1	2.50	0.47
1:B:125:THR:HG22	1:s:550:SER:C	2.36	0.47
1:B:549:MET:HE1	1:s:124:HIS:CE1	2.50	0.47
1:D:124:HIS:CE1	1:V:549:MET:HE1	2.50	0.47
1:M:124:HIS:CE1	1:p:549:MET:HE1	2.50	0.47
1:R:160:ARG:HE	1:m:558:GLN:NE2	2.13	0.47
1:S:558:GLN:NE2	1:m:160:ARG:HE	2.13	0.47
1:d:157:LEU:CG	1:q:561:TYR:HD1	2.22	0.47
1:f:124:HIS:CE1	1:q:549:MET:HE1	2.50	0.47
1:i:124:HIS:CE1	1:n:549:MET:HE1	2.50	0.47
1:i:560:THR:OG1	1:n:212:PHE:CE1	2.66	0.47
1:0:125:THR:HG22	1:U:550:SER:C	2.37	0.47
1:1:549:MET:HE1	1:u:124:HIS:CE1	2.50	0.47
1:1:551:THR:CG2	1:u:125:THR:CG2	2.83	0.47
1:2:124:HIS:CE1	1:T:549:MET:HE1	2.50	0.47
1:2:558:GLN:NE2	1:6:160:ARG:HE	2.13	0.47
1:3:124:HIS:CE1	1:x:549:MET:HE1	2.50	0.47
1:6:124:HIS:CE1	1:c:549:MET:HE1	2.50	0.47
1:6:125:THR:HG22	1:c:550:SER:C	2.36	0.47
1:6:250:LEU:HG	1:6:473:LEU:HD11	1.96	0.47
1:6:560:THR:OG1	1:c:212:PHE:CE1	2.66	0.47
1:7:250:LEU:HG	1:7:473:LEU:HD11	1.95	0.47
1:7:549:MET:HE1	1:N:124:HIS:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:87:GLU:OE2	1:x:395:LYS:HG3	2.13	0.47
1:C:250:LEU:HG	1:C:473:LEU:HD11	1.96	0.47
1:C:558:GLN:NE2	1:x:160:ARG:HE	2.13	0.47
1:D:300:LEU:HD22	1:D:332:GLY:O	2.13	0.47
1:E:250:LEU:HG	1:E:473:LEU:HD11	1.96	0.47
1:E:558:GLN:NE2	1:S:160:ARG:HE	2.13	0.47
1:H:124:HIS:CE1	1:S:549:MET:HE1	2.50	0.47
1:J:551:THR:CG2	1:L:125:THR:CG2	2.83	0.47
1:K:395:LYS:HG3	1:r:87:GLU:OE2	2.13	0.47
1:N:558:GLN:NE2	1:i:160:ARG:HE	2.13	0.47
1:Q:124:HIS:CE1	1:o:549:MET:HE1	2.50	0.47
1:Q:549:MET:HE1	1:o:124:HIS:CE1	2.50	0.47
1:T:395:LYS:HG3	1:U:87:GLU:OE2	2.13	0.47
1:V:558:GLN:NE2	1:j:160:ARG:HE	2.13	0.47
1:V:561:TYR:HD1	1:j:157:LEU:CG	2.22	0.47
1:X:549:MET:HE1	1:t:124:HIS:CE1	2.50	0.47
1:X:558:GLN:NE2	1:w:160:ARG:HE	2.13	0.47
1:b:250:LEU:HG	1:b:473:LEU:HD11	1.95	0.47
1:d:160:ARG:HE	1:q:558:GLN:NE2	2.13	0.47
1:e:160:ARG:HE	1:t:558:GLN:NE2	2.13	0.47
1:g:124:HIS:CE1	1:r:549:MET:HE1	2.50	0.47
1:i:125:THR:HG22	1:n:550:SER:C	2.36	0.47
1:i:250:LEU:HG	1:i:473:LEU:HD11	1.96	0.47
1:m:549:MET:HE1	1:z:124:HIS:CE1	2.50	0.47
1:3:208:SER:N	1:e:55:TRP:CZ3	2.83	0.47
1:3:560:THR:OG1	1:x:212:PHE:CD1	2.66	0.47
1:4:55:TRP:CZ3	1:H:208:SER:N	2.83	0.47
1:5:124:HIS:CE1	1:F:549:MET:HE1	2.50	0.47
1:6:558:GLN:NE2	1:Z:160:ARG:HE	2.13	0.47
1:7:395:LYS:HG3	1:s:87:GLU:OE2	2.13	0.47
1:A:250:LEU:HG	1:A:473:LEU:HD11	1.95	0.47
1:E:55:TRP:CZ3	1:v:208:SER:N	2.83	0.47
1:E:87:GLU:OE2	1:S:395:LYS:HG3	2.13	0.47
1:J:560:THR:OG1	1:L:212:PHE:CE1	2.66	0.47
1:L:160:ARG:HE	1:w:558:GLN:NE2	2.13	0.47
1:T:250:LEU:HG	1:T:473:LEU:HD11	1.95	0.47
1:W:124:HIS:CE1	1:b:549:MET:HE1	2.50	0.47
1:Y:250:LEU:HG	1:Y:473:LEU:HD11	1.95	0.47
1:Z:560:THR:OG1	1:w:212:PHE:CE1	2.66	0.47
1:i:558:GLN:NE2	1:y:160:ARG:HE	2.13	0.47
1:k:558:GLN:NE2	1:v:160:ARG:HE	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:208:SER:N	1:u:55:TRP:CZ3	2.83	0.47
1:o:561:TYR:HD1	1:u:157:LEU:CG	2.23	0.47
1:l:87:GLU:OE2	1:l:395:LYS:HG3	2.13	0.47
1:l:160:ARG:HE	1:y:558:GLN:NE2	2.13	0.47
1:l:561:TYR:HD1	1:l:157:LEU:CG	2.22	0.47
1:2:208:SER:N	1:h:55:TRP:CZ3	2.83	0.47
1:2:395:LYS:HG3	1:K:87:GLU:OE2	2.13	0.47
1:4:124:HIS:CE1	1:O:549:MET:HE1	2.50	0.47
1:4:190:LYS:HD3	1:z:190:LYS:NZ	2.20	0.47
1:4:549:MET:HE1	1:O:124:HIS:CE1	2.50	0.47
1:5:549:MET:HE1	1:F:124:HIS:CE1	2.50	0.47
1:7:550:SER:C	1:N:125:THR:HG22	2.36	0.47
1:7:558:GLN:NE2	1:P:160:ARG:HE	2.13	0.47
1:A:549:MET:HE1	1:Y:124:HIS:CE1	2.50	0.47
1:B:160:ARG:HE	1:n:558:GLN:NE2	2.13	0.47
1:C:55:TRP:CZ3	1:G:208:SER:N	2.83	0.47
1:C:125:THR:CG2	1:a:551:THR:CG2	2.83	0.47
1:F:160:ARG:HE	1:R:558:GLN:NE2	2.13	0.47
1:G:160:ARG:HE	1:a:558:GLN:NE2	2.13	0.47
1:I:55:TRP:CZ3	1:N:208:SER:N	2.83	0.47
1:J:124:HIS:CE1	1:L:549:MET:HE1	2.50	0.47
1:K:208:SER:N	1:g:55:TRP:CZ3	2.83	0.47
1:K:549:MET:HE1	1:h:124:HIS:CE1	2.50	0.47
1:P:124:HIS:CE1	1:e:549:MET:HE1	2.50	0.47
1:f:300:LEU:HD22	1:f:332:GLY:O	2.13	0.47
1:m:560:THR:OG1	1:z:212:PHE:CE1	2.66	0.47
1:O:160:ARG:HE	1:c:558:GLN:NE2	2.13	0.47
1:l:124:HIS:CE1	1:u:549:MET:HE1	2.50	0.47
1:3:160:ARG:HE	1:P:558:GLN:NE2	2.13	0.47
1:5:551:THR:CG2	1:F:125:THR:CG2	2.83	0.47
1:5:560:THR:OG1	1:F:212:PHE:CE1	2.66	0.47
1:A:124:HIS:CE1	1:Y:549:MET:HE1	2.50	0.47
1:C:124:HIS:CE1	1:a:549:MET:HE1	2.50	0.47
1:C:212:PHE:CE1	1:a:560:THR:OG1	2.66	0.47
1:F:236:ILE:CD1	1:R:531:GLU:HG2	2.46	0.47
1:H:160:ARG:HE	1:O:558:GLN:NE2	2.13	0.47
1:I:124:HIS:CE1	1:l:549:MET:HE1	2.50	0.47
1:J:549:MET:HE1	1:L:124:HIS:CE1	2.50	0.47
1:L:236:ILE:CD1	1:w:531:GLU:HG2	2.45	0.47
1:N:395:LYS:HG3	1:l:87:GLU:OE2	2.13	0.47
1:O:160:ARG:HE	1:T:558:GLN:NE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:549:MET:HE1	1:e:124:HIS:CE1	2.50	0.47
1:Q:561:TYR:HD1	1:g:157:LEU:CG	2.23	0.47
1:R:127:THR:HA	1:y:552:ILE:HG12	1.87	0.47
1:R:212:PHE:CE1	1:y:560:THR:OG1	2.66	0.47
1:R:236:ILE:CD1	1:m:531:GLU:HG2	2.46	0.47
1:W:250:LEU:HG	1:W:473:LEU:HD11	1.95	0.47
1:X:531:GLU:HG2	1:w:236:ILE:CD1	2.46	0.47
1:Z:558:GLN:NE2	1:r:160:ARG:HE	2.13	0.47
1:b:208:SER:N	1:x:55:TRP:CZ3	2.83	0.47
1:g:125:THR:CG2	1:r:551:THR:CG2	2.83	0.47
1:g:549:MET:HE1	1:r:124:HIS:CE1	2.50	0.47
1:i:531:GLU:HG2	1:y:236:ILE:CD1	2.45	0.47
1:n:55:TRP:CZ3	1:y:208:SER:N	2.83	0.47
1:0:531:GLU:HG2	1:V:236:ILE:CD1	2.46	0.46
1:2:531:GLU:HG2	1:6:236:ILE:CD1	2.45	0.46
1:6:531:GLU:HG2	1:Z:236:ILE:CD1	2.45	0.46
1:A:208:SER:N	1:S:55:TRP:CZ3	2.83	0.46
1:C:531:GLU:HG2	1:x:236:ILE:CD1	2.45	0.46
1:E:212:PHE:CE1	1:k:560:THR:OG1	2.66	0.46
1:E:531:GLU:HG2	1:S:236:ILE:CD1	2.45	0.46
1:F:55:TRP:CZ3	1:n:208:SER:N	2.83	0.46
1:K:157:LEU:CG	1:r:561:TYR:HD1	2.22	0.46
1:L:55:TRP:CZ3	1:c:208:SER:N	2.83	0.46
1:N:531:GLU:HG2	1:i:236:ILE:CD1	2.45	0.46
1:U:55:TRP:CZ3	1:V:208:SER:N	2.83	0.46
1:V:55:TRP:CZ3	1:Y:208:SER:N	2.83	0.46
1:W:208:SER:N	1:q:55:TRP:CZ3	2.83	0.46
1:Z:208:SER:N	1:c:55:TRP:CZ3	2.83	0.46
1:g:208:SER:N	1:o:55:TRP:CZ3	2.83	0.46
1:g:250:LEU:HG	1:g:473:LEU:HD11	1.95	0.46
1:u:250:LEU:HG	1:u:473:LEU:HD11	1.95	0.46
1:2:160:ARG:HE	1:K:558:GLN:NE2	2.13	0.46
1:3:55:TRP:CZ3	1:X:208:SER:N	2.83	0.46
1:5:55:TRP:CZ3	1:E:208:SER:N	2.83	0.46
1:7:55:TRP:CZ3	1:i:208:SER:N	2.83	0.46
1:A:190:LYS:NZ	1:U:190:LYS:HD3	2.20	0.46
1:C:208:SER:N	1:J:55:TRP:CZ3	2.83	0.46
1:D:48:LYS:CA	1:j:56:GLN:CD	2.88	0.46
1:E:124:HIS:CE1	1:k:549:MET:HE1	2.50	0.46
1:H:55:TRP:CZ3	1:m:208:SER:N	2.83	0.46
1:N:55:TRP:O	1:P:204:THR:OG1	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:55:TRP:CZ3	1:u:208:SER:N	2.83	0.46
1:Q:125:THR:HG22	1:o:550:SER:C	2.36	0.46
1:R:208:SER:N	1:z:55:TRP:CZ3	2.83	0.46
1:S:531:GLU:HG2	1:m:236:ILE:CD1	2.45	0.46
1:W:549:MET:HE1	1:b:124:HIS:CE1	2.50	0.46
1:X:236:ILE:CD1	1:x:531:GLU:HG2	2.45	0.46
1:d:125:THR:CG2	1:v:551:THR:CG2	2.83	0.46
1:q:208:SER:N	1:s:55:TRP:CZ3	2.83	0.46
1:t:55:TRP:CZ3	1:w:208:SER:N	2.83	0.46
1:O:552:ILE:CG1	1:U:127:THR:CG2	2.64	0.46
1:1:55:TRP:CZ3	1:z:208:SER:N	2.83	0.46
1:5:160:ARG:HE	1:d:558:GLN:NE2	2.13	0.46
1:6:208:SER:N	1:T:55:TRP:CZ3	2.83	0.46
1:6:549:MET:HE1	1:c:124:HIS:CE1	2.50	0.46
1:7:160:ARG:HE	1:s:558:GLN:NE2	2.13	0.46
1:E:125:THR:CG2	1:k:551:THR:CG2	2.83	0.46
1:F:56:GLN:CD	1:y:48:LYS:CA	2.88	0.46
1:G:551:THR:CG2	1:j:125:THR:CG2	2.83	0.46
1:I:558:GLN:NE2	1:Q:160:ARG:HE	2.13	0.46
1:L:56:GLN:CD	1:Z:48:LYS:CA	2.88	0.46
1:O:55:TRP:CZ3	1:h:208:SER:N	2.83	0.46
1:P:560:THR:OG1	1:e:212:PHE:CD1	2.66	0.46
1:T:160:ARG:HE	1:U:558:GLN:NE2	2.13	0.46
1:e:190:LYS:HD3	1:t:190:LYS:NZ	2.20	0.46
1:h:558:GLN:NE2	1:o:160:ARG:HE	2.13	0.46
1:p:160:ARG:HE	1:v:558:GLN:NE2	2.13	0.46
1:r:55:TRP:CZ3	1:t:208:SER:N	2.83	0.46
1:2:48:LYS:CA	1:O:56:GLN:CD	2.88	0.46
1:5:558:GLN:NE2	1:n:160:ARG:HE	2.13	0.46
1:D:208:SER:N	1:M:55:TRP:CZ3	2.83	0.46
1:G:236:ILE:CD1	1:a:531:GLU:HG2	2.45	0.46
1:G:558:GLN:NE2	1:M:160:ARG:HE	2.13	0.46
1:I:208:SER:N	1:P:55:TRP:CZ3	2.83	0.46
1:J:160:ARG:HE	1:j:558:GLN:NE2	2.13	0.46
1:K:55:TRP:CZ3	1:o:208:SER:N	2.83	0.46
1:N:160:ARG:HE	1:l:558:GLN:NE2	2.13	0.46
1:Q:550:SER:C	1:o:125:THR:HG22	2.36	0.46
1:Z:124:HIS:CE1	1:w:549:MET:HE1	2.50	0.46
1:f:208:SER:N	1:p:55:TRP:CZ3	2.83	0.46
1:i:549:MET:HE1	1:n:124:HIS:CE1	2.50	0.46
1:O:550:SER:C	1:U:125:THR:HG22	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:125:THR:HG22	1:T:550:SER:C	2.36	0.46
1:4:212:PHE:CD1	1:O:560:THR:OG1	2.66	0.46
1:4:558:GLN:NE2	1:h:160:ARG:HE	2.13	0.46
1:5:73:GLN:NE2	1:n:239:ARG:HH21	1.93	0.46
1:A:55:TRP:CZ3	1:k:208:SER:N	2.83	0.46
1:A:160:ARG:HE	1:H:558:GLN:NE2	2.13	0.46
1:B:550:SER:C	1:s:125:THR:HG22	2.36	0.46
1:C:549:MET:HE1	1:a:124:HIS:CE1	2.50	0.46
1:E:236:ILE:CD1	1:F:531:GLU:HG2	2.45	0.46
1:E:549:MET:HE1	1:k:124:HIS:CE1	2.50	0.46
1:M:125:THR:HG22	1:p:550:SER:C	2.36	0.46
1:N:48:LYS:CA	1:P:56:GLN:CD	2.88	0.46
1:Q:208:SER:N	1:l:55:TRP:CZ3	2.83	0.46
1:R:549:MET:HE1	1:y:124:HIS:CE1	2.50	0.46
1:W:160:ARG:HE	1:f:558:GLN:NE2	2.13	0.46
1:d:124:HIS:CE1	1:v:549:MET:HE1	2.50	0.46
1:d:549:MET:HE1	1:v:124:HIS:CE1	2.50	0.46
1:h:250:LEU:HG	1:h:473:LEU:HD11	1.96	0.46
1:k:531:GLU:HG2	1:v:236:ILE:CD1	2.45	0.46
1:5:531:GLU:HG2	1:n:236:ILE:CD1	2.45	0.46
1:B:558:GLN:NE2	1:q:160:ARG:HE	2.13	0.46
1:C:236:ILE:CD1	1:L:531:GLU:HG2	2.45	0.46
1:D:558:GLN:NE2	1:Y:160:ARG:HE	2.13	0.46
1:I:56:GLN:CD	1:P:48:LYS:CA	2.88	0.46
1:I:160:ARG:HE	1:e:558:GLN:NE2	2.13	0.46
1:J:73:GLN:NE2	1:c:239:ARG:HH21	1.93	0.46
1:J:531:GLU:HG2	1:c:236:ILE:CD1	2.45	0.46
1:J:558:GLN:NE2	1:c:160:ARG:HE	2.13	0.46
1:K:124:HIS:CE1	1:h:549:MET:HE1	2.50	0.46
1:O:48:LYS:CA	1:h:56:GLN:CD	2.88	0.46
1:P:550:SER:C	1:e:125:THR:HG22	2.36	0.46
1:W:55:TRP:CZ3	1:s:208:SER:N	2.83	0.46
1:Z:53:VAL:HG12	1:c:49:ARG:HB2	1.98	0.46
1:a:208:SER:N	1:b:55:TRP:CZ3	2.83	0.46
1:n:48:LYS:CA	1:y:56:GLN:CD	2.88	0.46
1:0:53:VAL:HG12	1:6:49:ARG:HB2	1.98	0.46
1:0:558:GLN:NE2	1:V:160:ARG:HE	2.13	0.46
1:2:87:GLU:OE2	1:6:395:LYS:HG3	2.13	0.46
1:C:56:GLN:CD	1:J:48:LYS:CA	2.88	0.46
1:D:549:MET:HE1	1:V:124:HIS:CE1	2.50	0.46
1:F:208:SER:N	1:y:55:TRP:CZ3	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:124:HIS:CE1	1:j:549:MET:HE1	2.50	0.46
1:G:549:MET:HE1	1:j:124:HIS:CE1	2.50	0.46
1:I:250:LEU:HG	1:I:473:LEU:HD11	1.96	0.46
1:Q:558:GLN:NE2	1:g:160:ARG:HE	2.13	0.46
1:U:208:SER:N	1:Y:55:TRP:CZ3	2.83	0.46
1:Z:56:GLN:CD	1:c:48:LYS:CA	2.88	0.46
1:a:55:TRP:CZ3	1:x:208:SER:N	2.83	0.46
1:b:190:LYS:NZ	1:s:190:LYS:HD3	2.20	0.46
1:d:208:SER:N	1:f:55:TRP:CZ3	2.83	0.46
1:n:49:ARG:HB2	1:y:53:VAL:HG12	1.98	0.46
1:o:558:GLN:NE2	1:u:160:ARG:HE	2.13	0.46
1:2:55:TRP:CZ3	1:O:208:SER:N	2.83	0.46
1:4:48:LYS:CA	1:H:56:GLN:CD	2.88	0.46
1:5:208:SER:N	1:v:55:TRP:CZ3	2.83	0.46
1:B:53:VAL:HG12	1:i:49:ARG:HB2	1.98	0.46
1:D:55:TRP:CZ3	1:j:208:SER:N	2.83	0.46
1:D:160:ARG:HE	1:p:558:GLN:NE2	2.13	0.46
1:I:549:MET:HE1	1:l:124:HIS:CE1	2.50	0.46
1:L:208:SER:N	1:Z:55:TRP:CZ3	2.83	0.46
1:N:55:TRP:CZ3	1:P:208:SER:N	2.83	0.46
1:N:87:GLU:OE2	1:i:395:LYS:HG3	2.13	0.46
1:N:236:ILE:CD1	1:l:531:GLU:HG2	2.45	0.46
1:Q:56:GLN:CD	1:l:48:LYS:CA	2.88	0.46
1:X:48:LYS:CA	1:e:56:GLN:CD	2.88	0.46
1:Z:549:MET:HE1	1:w:124:HIS:CE1	2.50	0.46
1:f:549:MET:HE1	1:q:124:HIS:CE1	2.50	0.46
1:1:48:LYS:CA	1:z:56:GLN:CD	2.88	0.46
1:1:49:ARG:HB2	1:z:53:VAL:HG12	1.98	0.46
1:2:236:ILE:CD1	1:K:531:GLU:HG2	2.45	0.46
1:3:56:GLN:CD	1:e:48:LYS:CA	2.88	0.46
1:4:56:GLN:CD	1:m:48:LYS:CA	2.88	0.46
1:4:236:ILE:CD1	1:z:531:GLU:HG2	2.46	0.46
1:B:552:ILE:CG1	1:s:127:THR:CG2	2.64	0.46
1:C:159:LEU:CD1	1:C:220:PRO:HG3	2.46	0.46
1:G:55:TRP:CZ3	1:J:208:SER:N	2.83	0.46
1:G:125:THR:HG22	1:j:550:SER:C	2.36	0.46
1:K:48:LYS:CA	1:o:56:GLN:CD	2.88	0.46
1:M:550:SER:C	1:p:125:THR:HG22	2.36	0.46
1:M:558:GLN:NE2	1:f:160:ARG:HE	2.13	0.46
1:S:208:SER:N	1:k:55:TRP:CZ3	2.83	0.46
1:X:49:ARG:HB2	1:e:53:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:561:TYR:HD1	1:v:157:LEU:CG	2.23	0.46
1:r:208:SER:N	1:w:55:TRP:CZ3	2.83	0.46
1:0:49:ARG:HB2	1:T:53:VAL:HG12	1.98	0.46
1:1:125:THR:HG22	1:u:550:SER:C	2.36	0.46
1:1:208:SER:N	1:R:55:TRP:CZ3	2.83	0.46
1:2:49:ARG:HB2	1:O:53:VAL:HG12	1.98	0.46
1:4:208:SER:N	1:m:55:TRP:CZ3	2.83	0.46
1:B:208:SER:N	1:i:55:TRP:CZ3	2.83	0.46
1:E:159:LEU:CD1	1:E:220:PRO:HG3	2.46	0.46
1:K:160:ARG:HE	1:r:558:GLN:NE2	2.13	0.46
1:R:124:HIS:CE1	1:y:549:MET:HE1	2.50	0.46
1:V:48:LYS:CA	1:Y:56:GLN:CD	2.88	0.46
1:g:558:GLN:NE2	1:t:160:ARG:HE	2.13	0.46
1:r:49:ARG:HB2	1:t:53:VAL:HG12	1.98	0.46
1:u:558:GLN:NE2	1:z:160:ARG:HE	2.13	0.46
1:0:208:SER:N	1:6:55:TRP:CZ3	2.83	0.45
1:1:558:GLN:NE2	1:l:160:ARG:HE	2.13	0.45
1:4:53:VAL:HG12	1:m:49:ARG:HB2	1.98	0.45
1:6:56:GLN:CD	1:T:48:LYS:CA	2.88	0.45
1:7:48:LYS:CA	1:i:56:GLN:CD	2.88	0.45
1:7:53:VAL:HG12	1:B:49:ARG:HB2	1.98	0.45
1:A:49:ARG:HB2	1:k:53:VAL:HG12	1.98	0.45
1:A:558:GLN:NE2	1:U:160:ARG:HE	2.13	0.45
1:D:56:GLN:CD	1:M:48:LYS:CA	2.88	0.45
1:D:236:ILE:CD1	1:p:531:GLU:HG2	2.45	0.45
1:G:157:LEU:CG	1:a:561:TYR:HD1	2.23	0.45
1:K:56:GLN:CD	1:g:48:LYS:CA	2.88	0.45
1:M:531:GLU:HG2	1:f:236:ILE:CD1	2.45	0.45
1:N:49:ARG:HB2	1:P:53:VAL:HG12	1.98	0.45
1:Q:545:ASP:OD2	1:u:156:SER:CB	2.53	0.45
1:S:53:VAL:HG12	1:k:49:ARG:HB2	1.98	0.45
1:T:190:LYS:HD3	1:U:190:LYS:NZ	2.20	0.45
1:W:56:GLN:CD	1:q:48:LYS:CA	2.88	0.45
1:X:55:TRP:CZ3	1:e:208:SER:N	2.83	0.45
1:a:56:GLN:CD	1:b:48:LYS:CA	2.88	0.45
1:d:156:SER:CB	1:f:545:ASP:OD2	2.53	0.45
1:f:552:ILE:CG1	1:q:127:THR:CG2	2.64	0.45
1:l:56:GLN:CD	1:u:48:LYS:CA	2.88	0.45
1:r:48:LYS:CA	1:t:56:GLN:CD	2.88	0.45
1:0:55:TRP:CZ3	1:T:208:SER:N	2.83	0.45
1:4:545:ASP:OD2	1:H:156:SER:CB	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:156:SER:CB	1:B:545:ASP:OD2	2.53	0.45
1:7:208:SER:N	1:B:55:TRP:CZ3	2.83	0.45
1:A:48:LYS:CA	1:k:56:GLN:CD	2.88	0.45
1:J:159:LEU:CD1	1:J:220:PRO:HG3	2.46	0.45
1:K:241:LEU:O	1:r:96:PRO:HA	2.17	0.45
1:a:49:ARG:HB2	1:x:53:VAL:HG12	1.98	0.45
1:a:53:VAL:HG12	1:b:49:ARG:HB2	1.98	0.45
1:b:558:GLN:NE2	1:s:160:ARG:HE	2.13	0.45
1:h:159:LEU:CD1	1:h:220:PRO:HG3	2.46	0.45
1:I:159:LEU:CD1	1:I:220:PRO:HG3	2.46	0.45
1:K:551:THR:HG22	1:h:125:THR:HB	1.97	0.45
1:M:208:SER:N	1:j:55:TRP:CZ3	2.83	0.45
1:R:53:VAL:HG12	1:z:49:ARG:HB2	1.98	0.45
1:W:159:LEU:CD1	1:W:220:PRO:HG3	2.46	0.45
1:d:55:TRP:CZ3	1:p:208:SER:N	2.83	0.45
1:d:550:SER:C	1:v:125:THR:HG22	2.36	0.45
1:f:56:GLN:CD	1:p:48:LYS:CA	2.88	0.45
1:t:49:ARG:HB2	1:w:53:VAL:HG12	1.98	0.45
1:3:551:THR:HG22	1:x:125:THR:HB	1.97	0.45
1:A:125:THR:HB	1:Y:551:THR:HG22	1.97	0.45
1:D:552:ILE:CG1	1:V:127:THR:CG2	2.64	0.45
1:E:241:LEU:O	1:F:96:PRO:HA	2.17	0.45
1:G:49:ARG:HB2	1:J:53:VAL:HG12	1.98	0.45
1:I:125:THR:HB	1:l:551:THR:HG22	1.97	0.45
1:M:125:THR:HB	1:p:551:THR:HG22	1.97	0.45
1:P:221:LEU:CD1	1:P:538:PHE:CE2	2.98	0.45
1:U:53:VAL:HG13	1:Y:50:LEU:N	2.32	0.45
1:W:50:LEU:N	1:s:53:VAL:HG13	2.32	0.45
1:W:551:THR:HG22	1:b:125:THR:HB	1.97	0.45
1:X:551:THR:HG22	1:t:125:THR:HB	1.97	0.45
1:Y:159:LEU:CD1	1:Y:220:PRO:HG3	2.46	0.45
1:Z:555:PRO:CA	1:w:214:HIS:HD1	2.30	0.45
1:g:53:VAL:HG13	1:o:50:LEU:N	2.32	0.45
1:q:56:GLN:CD	1:s:48:LYS:CA	2.88	0.45
1:1:50:LEU:N	1:z:53:VAL:HG13	2.32	0.45
1:1:53:VAL:HG13	1:R:50:LEU:N	2.32	0.45
1:2:50:LEU:N	1:O:53:VAL:HG13	2.32	0.45
1:5:53:VAL:HG12	1:v:49:ARG:HB2	1.98	0.45
1:5:53:VAL:HG13	1:v:50:LEU:N	2.32	0.45
1:5:156:SER:CB	1:v:545:ASP:OD2	2.53	0.45
1:5:241:LEU:O	1:d:96:PRO:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:555:PRO:CA	1:c:214:HIS:HD1	2.30	0.45
1:A:53:VAL:HG13	1:S:50:LEU:N	2.32	0.45
1:A:53:VAL:HG12	1:S:49:ARG:HB2	1.98	0.45
1:C:50:LEU:N	1:G:53:VAL:HG13	2.32	0.45
1:D:49:ARG:HB2	1:j:53:VAL:HG12	1.98	0.45
1:H:551:THR:HG22	1:S:125:THR:HB	1.97	0.45
1:K:156:SER:CB	1:g:545:ASP:OD2	2.53	0.45
1:O:221:LEU:CD1	1:O:538:PHE:CE2	2.98	0.45
1:Q:50:LEU:N	1:u:53:VAL:HG13	2.32	0.45
1:U:48:LYS:CA	1:V:56:GLN:CD	2.88	0.45
1:V:545:ASP:OD2	1:Y:156:SER:CB	2.53	0.45
1:a:48:LYS:CA	1:x:56:GLN:CD	2.88	0.45
1:b:53:VAL:HG13	1:x:50:LEU:N	2.32	0.45
1:i:555:PRO:CA	1:n:214:HIS:HD1	2.30	0.45
1:l:156:SER:CB	1:u:545:ASP:OD2	2.53	0.45
1:r:50:LEU:N	1:t:53:VAL:HG13	2.32	0.45
1:r:53:VAL:HG13	1:w:50:LEU:N	2.32	0.45
1:1:159:LEU:CD1	1:1:220:PRO:HG3	2.46	0.45
1:1:214:HIS:HD1	1:u:555:PRO:CA	2.30	0.45
1:3:48:LYS:CA	1:X:56:GLN:CD	2.88	0.45
1:7:190:LYS:HD3	1:s:190:LYS:NZ	2.20	0.45
1:C:48:LYS:CA	1:G:56:GLN:CD	2.88	0.45
1:E:48:LYS:CA	1:v:56:GLN:CD	2.88	0.45
1:E:50:LEU:N	1:v:53:VAL:HG13	2.32	0.45
1:E:551:THR:HG22	1:k:125:THR:HB	1.97	0.45
1:G:50:LEU:N	1:J:53:VAL:HG13	2.32	0.45
1:H:48:LYS:CA	1:m:56:GLN:CD	2.88	0.45
1:M:551:THR:HG22	1:p:125:THR:HB	1.97	0.45
1:M:552:ILE:CG1	1:p:127:THR:CG2	2.64	0.45
1:N:50:LEU:N	1:P:53:VAL:HG13	2.32	0.45
1:Q:49:ARG:HB2	1:u:53:VAL:HG12	1.98	0.45
1:S:53:VAL:HG13	1:k:50:LEU:N	2.32	0.45
1:S:56:GLN:CD	1:k:48:LYS:CA	2.88	0.45
1:Z:125:THR:HB	1:w:551:THR:HG22	1.97	0.45
1:a:50:LEU:N	1:x:53:VAL:HG13	2.32	0.45
1:g:555:PRO:CA	1:r:214:HIS:HD1	2.30	0.45
1:m:551:THR:HG22	1:z:125:THR:HB	1.97	0.45
1:0:221:LEU:CD1	1:0:538:PHE:CE2	2.98	0.45
1:0:545:ASP:OD2	1:T:156:SER:CB	2.53	0.45
1:1:236:ILE:CD1	1:y:531:GLU:HG2	2.45	0.45
1:B:73:GLN:NE2	1:q:239:ARG:HH21	1.93	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:555:PRO:CA	1:s:214:HIS:HD1	2.30	0.45
1:K:53:VAL:HG13	1:g:50:LEU:N	2.32	0.45
1:K:552:ILE:CG1	1:h:127:THR:CG2	2.63	0.45
1:L:49:ARG:HB2	1:c:53:VAL:HG12	1.98	0.45
1:M:56:GLN:CD	1:j:48:LYS:CA	2.88	0.45
1:O:50:LEU:N	1:h:53:VAL:HG13	2.32	0.45
1:R:551:THR:HG22	1:y:125:THR:HB	1.97	0.45
1:U:53:VAL:HG12	1:Y:49:ARG:HB2	1.98	0.45
1:Z:531:GLU:HG2	1:r:236:ILE:CD1	2.46	0.45
1:b:53:VAL:HG12	1:x:49:ARG:HB2	1.98	0.45
1:d:53:VAL:HG12	1:f:49:ARG:HB2	1.98	0.45
1:d:214:HIS:HD1	1:v:555:PRO:CA	2.30	0.45
1:i:214:HIS:HD1	1:n:555:PRO:CA	2.30	0.45
1:m:214:HIS:HD1	1:z:555:PRO:CA	2.30	0.45
1:r:159:LEU:CD1	1:r:220:PRO:HG3	2.46	0.45
1:0:56:GLN:CD	1:6:48:LYS:CA	2.88	0.45
1:4:221:LEU:CD1	1:4:538:PHE:CE2	2.98	0.45
1:6:214:HIS:HD1	1:c:555:PRO:CA	2.30	0.45
1:B:221:LEU:CD1	1:B:538:PHE:CE2	2.98	0.45
1:C:53:VAL:HG13	1:J:50:LEU:N	2.32	0.45
1:C:551:THR:HG22	1:a:125:THR:HB	1.97	0.45
1:D:53:VAL:HG13	1:M:50:LEU:N	2.32	0.45
1:D:190:LYS:HD3	1:p:190:LYS:NZ	2.20	0.45
1:G:555:PRO:CA	1:j:214:HIS:HD1	2.30	0.45
1:H:157:LEU:CG	1:O:561:TYR:HD1	2.23	0.45
1:H:555:PRO:CA	1:S:214:HIS:HD1	2.30	0.45
1:I:53:VAL:HG13	1:P:50:LEU:N	2.32	0.45
1:K:49:ARG:HB2	1:o:53:VAL:HG12	1.98	0.45
1:L:50:LEU:N	1:c:53:VAL:HG13	2.32	0.45
1:L:53:VAL:HG13	1:Z:50:LEU:N	2.32	0.45
1:Q:53:VAL:HG12	1:l:49:ARG:HB2	1.98	0.45
1:W:49:ARG:HB2	1:s:53:VAL:HG12	1.98	0.45
1:X:50:LEU:N	1:e:53:VAL:HG13	2.32	0.45
1:g:53:VAL:HG12	1:o:49:ARG:HB2	1.98	0.45
1:g:550:SER:C	1:r:125:THR:HG22	2.36	0.45
1:0:73:GLN:NE2	1:V:239:ARG:HH21	1.93	0.45
1:0:552:ILE:HG12	1:U:127:THR:HA	1.87	0.45
1:3:212:PHE:CE2	1:x:560:THR:HG23	2.52	0.45
1:3:555:PRO:CA	1:x:214:HIS:HD1	2.30	0.45
1:4:53:VAL:HG13	1:m:50:LEU:N	2.32	0.45
1:4:214:HIS:HD1	1:O:555:PRO:CA	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:212:PHE:CE2	1:s:560:THR:HG23	2.52	0.45
1:C:555:PRO:CA	1:a:214:HIS:HD1	2.30	0.45
1:F:48:LYS:CA	1:n:56:GLN:CD	2.88	0.45
1:F:49:ARG:HB2	1:n:53:VAL:HG12	1.98	0.45
1:F:50:LEU:N	1:n:53:VAL:HG13	2.32	0.45
1:F:53:VAL:HG13	1:y:50:LEU:N	2.32	0.45
1:G:545:ASP:OD2	1:J:156:SER:CB	2.53	0.45
1:H:212:PHE:CE2	1:S:560:THR:HG23	2.52	0.45
1:L:48:LYS:CA	1:c:56:GLN:CD	2.88	0.45
1:V:50:LEU:N	1:Y:53:VAL:HG13	2.32	0.45
1:d:48:LYS:CA	1:p:56:GLN:CD	2.88	0.45
1:f:53:VAL:HG13	1:p:50:LEU:N	2.32	0.45
1:l:53:VAL:HG13	1:u:50:LEU:N	2.32	0.45
1:q:53:VAL:HG13	1:s:50:LEU:N	2.32	0.45
1:0:48:LYS:CA	1:T:56:GLN:CD	2.88	0.45
1:0:212:PHE:CE2	1:U:560:THR:HG23	2.52	0.45
1:5:50:LEU:N	1:E:53:VAL:HG13	2.32	0.45
1:7:212:PHE:CE2	1:N:560:THR:HG23	2.52	0.45
1:A:214:HIS:HD1	1:Y:555:PRO:CA	2.30	0.45
1:B:56:GLN:CD	1:i:48:LYS:CA	2.88	0.45
1:E:555:PRO:CA	1:k:214:HIS:HD1	2.30	0.45
1:U:50:LEU:N	1:V:53:VAL:HG13	2.32	0.45
1:W:53:VAL:HG13	1:q:50:LEU:N	2.32	0.45
1:X:125:THR:HB	1:t:551:THR:HG22	1.97	0.45
1:Z:159:LEU:CD1	1:Z:220:PRO:HG3	2.46	0.45
1:d:50:LEU:N	1:p:53:VAL:HG13	2.32	0.45
1:m:125:THR:HB	1:z:551:THR:HG22	1.97	0.45
1:0:50:LEU:N	1:T:53:VAL:HG13	2.32	0.44
1:2:560:THR:HG23	1:T:212:PHE:CE2	2.52	0.44
1:7:53:VAL:HG13	1:B:50:LEU:N	2.32	0.44
1:7:56:GLN:CD	1:B:48:LYS:CA	2.88	0.44
1:A:50:LEU:N	1:k:53:VAL:HG13	2.32	0.44
1:B:552:ILE:HG12	1:s:127:THR:HA	1.87	0.44
1:D:127:THR:HA	1:V:552:ILE:HG12	1.87	0.44
1:I:560:THR:HG23	1:l:212:PHE:CE2	2.52	0.44
1:K:50:LEU:N	1:o:53:VAL:HG13	2.32	0.44
1:K:53:VAL:HG12	1:g:49:ARG:HB2	1.98	0.44
1:M:53:VAL:HG13	1:j:50:LEU:N	2.32	0.44
1:M:127:THR:CG2	1:p:552:ILE:CG1	2.64	0.44
1:U:56:GLN:CD	1:Y:48:LYS:CA	2.88	0.44
1:W:48:LYS:CA	1:s:56:GLN:CD	2.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:53:VAL:HG13	1:b:50:LEU:N	2.32	0.44
1:g:221:LEU:CD1	1:g:538:PHE:CE2	2.98	0.44
1:g:531:GLU:HG2	1:t:236:ILE:CD1	2.46	0.44
1:i:212:PHE:CE2	1:n:560:THR:HG23	2.52	0.44
1:l:53:VAL:HG12	1:u:49:ARG:HB2	1.98	0.44
1:3:50:LEU:N	1:X:53:VAL:HG13	2.32	0.44
1:3:157:LEU:CG	1:P:561:TYR:HD1	2.23	0.44
1:3:545:ASP:OD2	1:X:156:SER:CB	2.53	0.44
1:3:558:GLN:NE2	1:b:160:ARG:HE	2.13	0.44
1:6:53:VAL:HG12	1:T:49:ARG:HB2	1.98	0.44
1:6:53:VAL:HG13	1:T:50:LEU:N	2.32	0.44
1:6:212:PHE:CE2	1:c:560:THR:HG23	2.52	0.44
1:7:49:ARG:HB2	1:i:53:VAL:HG12	1.98	0.44
1:D:50:LEU:N	1:j:53:VAL:HG13	2.32	0.44
1:D:53:VAL:HG12	1:M:49:ARG:HB2	1.98	0.44
1:H:50:LEU:N	1:m:53:VAL:HG13	2.32	0.44
1:I:127:THR:CG2	1:l:552:ILE:CG1	2.63	0.44
1:K:212:PHE:CE2	1:h:560:THR:HG23	2.52	0.44
1:L:53:VAL:HG13	1:Z:50:LEU:O	2.18	0.44
1:Q:53:VAL:HG13	1:l:50:LEU:N	2.32	0.44
1:S:53:VAL:HG13	1:k:50:LEU:O	2.18	0.44
1:W:555:PRO:CA	1:b:214:HIS:HD1	2.30	0.44
1:a:50:LEU:O	1:x:53:VAL:HG13	2.18	0.44
1:b:56:GLN:CD	1:x:48:LYS:CA	2.88	0.44
1:d:552:ILE:CG1	1:v:127:THR:CG2	2.63	0.44
1:f:53:VAL:HG12	1:p:49:ARG:HB2	1.98	0.44
1:g:560:THR:HG23	1:r:212:PHE:CE2	2.52	0.44
1:q:53:VAL:HG13	1:s:50:LEU:O	2.18	0.44
1:r:53:VAL:HG12	1:w:49:ARG:HB2	1.98	0.44
1:u:221:LEU:CD1	1:u:538:PHE:CE2	2.98	0.44
1:y:159:LEU:CD1	1:y:220:PRO:HG3	2.46	0.44
1:1:212:PHE:CE2	1:u:560:THR:HG23	2.52	0.44
1:2:53:VAL:HG12	1:h:49:ARG:HB2	1.98	0.44
1:2:214:HIS:HD1	1:T:555:PRO:CA	2.30	0.44
1:3:214:HIS:HD1	1:x:555:PRO:CA	2.30	0.44
1:4:157:LEU:CG	1:z:561:TYR:HD1	2.23	0.44
1:5:50:LEU:O	1:E:53:VAL:HG13	2.18	0.44
1:A:53:VAL:HG13	1:S:50:LEU:O	2.18	0.44
1:A:56:GLN:CD	1:S:48:LYS:CA	2.88	0.44
1:C:53:VAL:HG13	1:J:50:LEU:O	2.18	0.44
1:D:53:VAL:HG13	1:M:50:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:VAL:HG13	1:y:50:LEU:O	2.18	0.44
1:H:125:THR:HG22	1:S:550:SER:C	2.36	0.44
1:H:214:HIS:HD1	1:S:555:PRO:CA	2.30	0.44
1:K:53:VAL:HG13	1:g:50:LEU:O	2.18	0.44
1:K:560:THR:HG23	1:h:212:PHE:CE2	2.52	0.44
1:O:49:ARG:HB2	1:h:53:VAL:HG12	1.98	0.44
1:Q:190:LYS:NZ	1:g:190:LYS:HD3	2.20	0.44
1:R:560:THR:HG23	1:y:212:PHE:CE2	2.52	0.44
1:U:50:LEU:O	1:V:53:VAL:HG13	2.18	0.44
1:Z:212:PHE:CE2	1:w:560:THR:HG23	2.52	0.44
1:b:53:VAL:HG13	1:x:50:LEU:O	2.18	0.44
1:d:53:VAL:HG13	1:f:50:LEU:N	2.32	0.44
1:f:53:VAL:HG13	1:p:50:LEU:O	2.18	0.44
1:n:159:LEU:CD1	1:n:220:PRO:HG3	2.46	0.44
1:o:190:LYS:NZ	1:u:190:LYS:HD3	2.20	0.44
1:u:531:GLU:HG2	1:z:236:ILE:CD1	2.46	0.44
1:1:53:VAL:HG12	1:R:49:ARG:HB2	1.98	0.44
1:2:159:LEU:CD1	1:2:220:PRO:HG3	2.46	0.44
1:2:212:PHE:CE2	1:T:560:THR:HG23	2.52	0.44
1:3:53:VAL:HG13	1:e:50:LEU:N	2.32	0.44
1:3:125:THR:HG22	1:x:550:SER:C	2.36	0.44
1:6:156:SER:CB	1:T:545:ASP:OD2	2.53	0.44
1:7:50:LEU:N	1:i:53:VAL:HG13	2.32	0.44
1:7:236:ILE:CD1	1:s:531:GLU:HG2	2.46	0.44
1:7:555:PRO:CA	1:N:214:HIS:HD1	2.30	0.44
1:7:560:THR:HG23	1:N:212:PHE:CE2	2.52	0.44
1:B:551:THR:HG22	1:s:125:THR:HB	1.97	0.44
1:H:49:ARG:HB2	1:m:53:VAL:HG12	1.98	0.44
1:H:545:ASP:OD2	1:m:156:SER:CB	2.53	0.44
1:I:212:PHE:CE2	1:l:560:THR:HG23	2.52	0.44
1:O:50:LEU:O	1:h:53:VAL:HG13	2.18	0.44
1:Q:212:PHE:CE2	1:o:560:THR:HG23	2.52	0.44
1:Q:560:THR:HG23	1:o:212:PHE:CE2	2.52	0.44
1:X:50:LEU:O	1:e:53:VAL:HG13	2.18	0.44
1:i:552:ILE:CG1	1:n:127:THR:CG2	2.64	0.44
1:l:53:VAL:HG13	1:u:50:LEU:O	2.18	0.44
1:m:212:PHE:CE2	1:z:560:THR:HG23	2.52	0.44
1:0:156:SER:CB	1:6:545:ASP:OD2	2.53	0.44
1:0:214:HIS:HD1	1:U:555:PRO:CA	2.30	0.44
1:3:50:LEU:O	1:X:53:VAL:HG13	2.18	0.44
1:3:53:VAL:HG12	1:e:49:ARG:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:49:ARG:HB2	1:H:53:VAL:HG12	1.98	0.44
1:4:53:VAL:HG13	1:m:50:LEU:O	2.18	0.44
1:5:56:GLN:CD	1:v:48:LYS:CA	2.88	0.44
1:7:545:ASP:OD2	1:i:156:SER:CB	2.53	0.44
1:B:214:HIS:HD1	1:s:555:PRO:CA	2.30	0.44
1:D:551:THR:HG22	1:V:125:THR:HB	1.97	0.44
1:G:212:PHE:CE2	1:j:560:THR:HG23	2.52	0.44
1:G:560:THR:HG23	1:j:212:PHE:CE2	2.52	0.44
1:H:50:LEU:O	1:m:53:VAL:HG13	2.18	0.44
1:H:159:LEU:CD1	1:H:220:PRO:HG3	2.46	0.44
1:I:49:ARG:HB2	1:N:53:VAL:HG12	1.98	0.44
1:I:50:LEU:N	1:N:53:VAL:HG13	2.32	0.44
1:I:53:VAL:HG13	1:P:50:LEU:O	2.18	0.44
1:I:53:VAL:HG12	1:P:49:ARG:HB2	1.98	0.44
1:J:212:PHE:CE2	1:L:560:THR:HG23	2.52	0.44
1:M:214:HIS:HD1	1:p:555:PRO:CA	2.30	0.44
1:M:221:LEU:CD1	1:M:538:PHE:CE2	2.98	0.44
1:T:236:ILE:CD1	1:U:531:GLU:HG2	2.46	0.44
1:X:212:PHE:CE2	1:t:560:THR:HG23	2.52	0.44
1:c:159:LEU:CD1	1:c:220:PRO:HG3	2.46	0.44
1:d:212:PHE:CE2	1:v:560:THR:HG23	2.52	0.44
1:d:560:THR:HG23	1:v:212:PHE:CE2	2.52	0.44
1:k:96:PRO:HA	1:v:241:LEU:O	2.16	0.44
1:t:50:LEU:N	1:w:53:VAL:HG13	2.32	0.44
1:0:50:LEU:O	1:T:53:VAL:HG13	2.18	0.44
1:0:551:THR:HG22	1:U:125:THR:HB	1.97	0.44
1:2:53:VAL:HG13	1:h:50:LEU:N	2.32	0.44
1:3:49:ARG:HB2	1:X:53:VAL:HG12	1.98	0.44
1:3:159:LEU:CD1	1:3:220:PRO:HG3	2.46	0.44
1:3:241:LEU:O	1:P:96:PRO:HA	2.17	0.44
1:4:50:LEU:N	1:H:53:VAL:HG13	2.32	0.44
1:5:212:PHE:CE2	1:F:560:THR:HG23	2.52	0.44
1:6:552:ILE:CG1	1:c:127:THR:CG2	2.64	0.44
1:B:241:LEU:O	1:n:96:PRO:HA	2.17	0.44
1:C:560:THR:HG23	1:a:212:PHE:CE2	2.52	0.44
1:H:241:LEU:O	1:O:96:PRO:HA	2.17	0.44
1:M:53:VAL:HG13	1:j:50:LEU:O	2.18	0.44
1:N:159:LEU:CD1	1:N:220:PRO:HG3	2.46	0.44
1:Y:221:LEU:CD1	1:Y:538:PHE:CE2	2.98	0.44
1:Z:53:VAL:HG13	1:c:50:LEU:N	2.32	0.44
1:Z:560:THR:HG23	1:w:212:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:50:LEU:O	1:p:53:VAL:HG13	2.18	0.44
1:e:157:LEU:CG	1:t:561:TYR:HD1	2.22	0.44
1:h:561:TYR:HD1	1:o:157:LEU:CG	2.22	0.44
1:n:50:LEU:N	1:y:53:VAL:HG13	2.32	0.44
1:y:221:LEU:CD1	1:y:538:PHE:CE2	2.98	0.44
1:4:241:LEU:O	1:z:96:PRO:HA	2.17	0.44
1:7:53:VAL:HG13	1:B:50:LEU:O	2.18	0.44
1:A:560:THR:HG23	1:Y:212:PHE:CE2	2.52	0.44
1:B:127:THR:CG2	1:s:552:ILE:CG1	2.63	0.44
1:G:241:LEU:O	1:a:96:PRO:HA	2.17	0.44
1:J:560:THR:HG23	1:L:212:PHE:CE2	2.52	0.44
1:M:555:PRO:CA	1:p:214:HIS:HD1	2.30	0.44
1:R:53:VAL:HG13	1:z:50:LEU:N	2.32	0.44
1:R:212:PHE:CE2	1:y:560:THR:HG23	2.52	0.44
1:V:49:ARG:HB2	1:Y:53:VAL:HG12	1.98	0.44
1:V:159:LEU:CD1	1:V:220:PRO:HG3	2.46	0.44
1:W:221:LEU:CD1	1:W:538:PHE:CE2	2.98	0.44
1:Z:221:LEU:CD1	1:Z:538:PHE:CE2	2.98	0.44
1:Z:551:THR:CG2	1:w:125:THR:CG2	2.83	0.44
1:g:190:LYS:NZ	1:t:190:LYS:HD3	2.20	0.44
1:m:159:LEU:CD1	1:m:220:PRO:HG3	2.46	0.44
1:p:221:LEU:CD1	1:p:538:PHE:CE2	2.98	0.44
1:u:190:LYS:NZ	1:z:190:LYS:HD3	2.20	0.44
1:0:53:VAL:HG13	1:6:50:LEU:N	2.32	0.44
1:0:241:LEU:O	1:c:96:PRO:HA	2.17	0.44
1:1:50:LEU:O	1:z:53:VAL:HG13	2.18	0.44
1:1:56:GLN:CD	1:R:48:LYS:CA	2.88	0.44
1:4:212:PHE:CE2	1:O:560:THR:HG23	2.52	0.44
1:B:156:SER:CB	1:i:545:ASP:OD2	2.53	0.44
1:C:49:ARG:HB2	1:G:53:VAL:HG12	1.98	0.44
1:C:156:SER:CB	1:J:545:ASP:OD2	2.53	0.44
1:E:49:ARG:HB2	1:v:53:VAL:HG12	1.98	0.44
1:G:551:THR:HG22	1:j:125:THR:HB	1.97	0.44
1:I:214:HIS:HD1	1:l:555:PRO:CA	2.30	0.44
1:K:221:LEU:CD1	1:K:538:PHE:CE2	2.98	0.44
1:M:159:LEU:CD1	1:M:220:PRO:HG3	2.46	0.44
1:W:53:VAL:HG12	1:q:49:ARG:HB2	1.98	0.44
1:W:96:PRO:HA	1:a:241:LEU:O	2.17	0.44
1:W:531:GLU:HG2	1:a:236:ILE:CD1	2.45	0.44
1:W:560:THR:HG23	1:b:212:PHE:CE2	2.52	0.44
1:f:212:PHE:CE2	1:q:560:THR:HG23	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:159:LEU:CD1	1:p:220:PRO:HG3	2.46	0.44
1:q:159:LEU:CD1	1:q:220:PRO:HG3	2.46	0.44
1:r:50:LEU:O	1:t:53:VAL:HG13	2.18	0.44
1:5:96:PRO:HA	1:n:241:LEU:O	2.17	0.44
1:5:560:THR:HG23	1:F:212:PHE:CE2	2.52	0.44
1:B:53:VAL:HG13	1:i:50:LEU:N	2.32	0.44
1:D:212:PHE:CE2	1:V:560:THR:HG23	2.52	0.44
1:K:555:PRO:CA	1:h:214:HIS:HD1	2.30	0.44
1:P:212:PHE:CE2	1:e:560:THR:HG23	2.52	0.44
1:P:560:THR:HG23	1:e:212:PHE:CE2	2.52	0.44
1:Q:552:ILE:CG1	1:o:127:THR:CG2	2.64	0.44
1:R:241:LEU:O	1:m:96:PRO:HA	2.17	0.44
1:W:212:PHE:CE2	1:b:560:THR:HG23	2.52	0.44
1:X:159:LEU:CD1	1:X:220:PRO:HG3	2.46	0.44
1:Y:96:PRO:HA	1:k:241:LEU:O	2.17	0.44
1:e:241:LEU:O	1:t:96:PRO:HA	2.17	0.44
1:f:551:THR:HG22	1:q:125:THR:HB	1.97	0.44
1:l:221:LEU:CD1	1:l:538:PHE:CE2	2.98	0.44
1:0:127:THR:CG2	1:U:552:ILE:CG1	2.64	0.43
1:2:561:TYR:HD1	1:6:157:LEU:CG	2.23	0.43
1:3:53:VAL:HG13	1:e:50:LEU:O	2.18	0.43
1:3:125:THR:HB	1:x:551:THR:HG22	1.97	0.43
1:4:50:LEU:O	1:H:53:VAL:HG13	2.18	0.43
1:4:560:THR:HG23	1:O:212:PHE:CE2	2.52	0.43
1:5:49:ARG:HB2	1:E:53:VAL:HG12	1.98	0.43
1:A:212:PHE:CE2	1:Y:560:THR:HG23	2.52	0.43
1:B:159:LEU:CD1	1:B:220:PRO:HG3	2.46	0.43
1:C:50:LEU:O	1:G:53:VAL:HG13	2.18	0.43
1:D:157:LEU:CG	1:p:561:TYR:HD1	2.23	0.43
1:I:50:LEU:O	1:N:53:VAL:HG13	2.18	0.43
1:K:50:LEU:O	1:o:53:VAL:HG13	2.18	0.43
1:L:156:SER:CB	1:Z:545:ASP:OD2	2.53	0.43
1:M:560:THR:HG23	1:p:212:PHE:CE2	2.52	0.43
1:N:561:TYR:HD1	1:i:157:LEU:CG	2.23	0.43
1:Q:50:LEU:O	1:u:53:VAL:HG13	2.18	0.43
1:S:190:LYS:NZ	1:m:190:LYS:HD3	2.20	0.43
1:X:96:PRO:HA	1:w:241:LEU:O	2.17	0.43
1:d:56:GLN:CD	1:f:48:LYS:CA	2.88	0.43
1:g:53:VAL:HG13	1:o:50:LEU:O	2.18	0.43
1:1:53:VAL:HG13	1:R:50:LEU:O	2.18	0.43
1:2:53:VAL:HG13	1:h:50:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:50:LEU:O	1:j:53:VAL:HG13	2.18	0.43
1:D:555:PRO:CA	1:V:214:HIS:HD1	2.30	0.43
1:G:48:LYS:CA	1:J:56:GLN:CD	2.88	0.43
1:G:50:LEU:O	1:J:53:VAL:HG13	2.18	0.43
1:I:561:TYR:HD1	1:Q:157:LEU:CG	2.23	0.43
1:J:96:PRO:HA	1:c:241:LEU:O	2.17	0.43
1:M:212:PHE:CE2	1:p:560:THR:HG23	2.52	0.43
1:N:50:LEU:O	1:P:53:VAL:HG13	2.18	0.43
1:Q:53:VAL:HG13	1:l:50:LEU:O	2.18	0.43
1:R:157:LEU:CG	1:m:561:TYR:HD1	2.23	0.43
1:Y:531:GLU:HG2	1:k:236:ILE:CD1	2.46	0.43
1:d:125:THR:HB	1:v:551:THR:HG22	1.97	0.43
1:i:221:LEU:CD1	1:i:538:PHE:CE2	2.98	0.43
1:0:159:LEU:CD1	1:0:220:PRO:HG3	2.46	0.43
1:0:560:THR:HG23	1:U:212:PHE:CE2	2.52	0.43
1:2:50:LEU:O	1:O:53:VAL:HG13	2.18	0.43
1:5:53:VAL:HG13	1:v:50:LEU:O	2.18	0.43
1:A:157:LEU:CG	1:H:561:TYR:HD1	2.23	0.43
1:C:53:VAL:HG12	1:J:49:ARG:HB2	1.98	0.43
1:E:50:LEU:O	1:v:53:VAL:HG13	2.18	0.43
1:G:127:THR:CG2	1:j:552:ILE:CG1	2.63	0.43
1:I:127:THR:HA	1:l:552:ILE:HG12	1.87	0.43
1:R:125:THR:CG2	1:y:551:THR:CG2	2.83	0.43
1:f:555:PRO:CA	1:q:214:HIS:HD1	2.30	0.43
1:n:50:LEU:O	1:y:53:VAL:HG13	2.18	0.43
1:p:241:LEU:O	1:v:96:PRO:HA	2.17	0.43
1:r:53:VAL:HG13	1:w:50:LEU:O	2.18	0.43
1:2:555:PRO:CA	1:T:214:HIS:HD1	2.30	0.43
1:4:159:LEU:CD1	1:4:220:PRO:HG3	2.46	0.43
1:5:545:ASP:OD2	1:E:156:SER:CB	2.53	0.43
1:6:221:LEU:CD1	1:6:538:PHE:CE2	2.98	0.43
1:6:560:THR:HG23	1:c:212:PHE:CE2	2.52	0.43
1:7:214:HIS:HD1	1:N:555:PRO:CA	2.30	0.43
1:B:560:THR:HG23	1:s:212:PHE:CE2	2.52	0.43
1:M:561:TYR:HD1	1:f:157:LEU:CG	2.23	0.43
1:Q:125:THR:HB	1:o:551:THR:HG22	1.97	0.43
1:Z:53:VAL:HG13	1:c:50:LEU:O	2.18	0.43
1:d:53:VAL:HG13	1:f:50:LEU:O	2.18	0.43
1:i:560:THR:HG23	1:n:212:PHE:CE2	2.52	0.43
1:q:53:VAL:HG12	1:s:49:ARG:HB2	1.98	0.43
1:r:56:GLN:CD	1:w:48:LYS:CA	2.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:156:SER:CB	1:h:545:ASP:OD2	2.53	0.43
1:2:552:ILE:CG1	1:T:127:THR:CG2	2.64	0.43
1:3:236:ILE:CD1	1:P:531:GLU:HG2	2.45	0.43
1:4:531:GLU:HG2	1:h:236:ILE:CD1	2.45	0.43
1:5:214:HIS:HD1	1:F:555:PRO:CA	2.30	0.43
1:B:53:VAL:HG13	1:i:50:LEU:O	2.18	0.43
1:G:96:PRO:HA	1:M:241:LEU:O	2.17	0.43
1:H:125:THR:HB	1:S:551:THR:HG22	1.97	0.43
1:J:214:HIS:HD1	1:L:555:PRO:CA	2.30	0.43
1:S:159:LEU:CD1	1:S:220:PRO:HG3	2.46	0.43
1:V:50:LEU:O	1:Y:53:VAL:HG13	2.18	0.43
1:X:190:LYS:HD3	1:x:190:LYS:NZ	2.20	0.43
1:X:561:TYR:HD1	1:w:157:LEU:CG	2.23	0.43
1:f:221:LEU:CD1	1:f:538:PHE:CE2	2.98	0.43
1:f:560:THR:HG23	1:q:212:PHE:CE2	2.52	0.43
1:i:551:THR:HG22	1:n:125:THR:HB	1.97	0.43
1:x:159:LEU:CD1	1:x:220:PRO:HG3	2.46	0.43
1:0:53:VAL:HG13	1:6:50:LEU:O	2.18	0.43
1:A:207:LYS:C	1:S:55:TRP:HZ3	2.27	0.43
1:F:156:SER:CB	1:y:545:ASP:OD2	2.53	0.43
1:I:531:GLU:HG2	1:Q:236:ILE:CD1	2.45	0.43
1:P:125:THR:HB	1:e:551:THR:HG22	1.97	0.43
1:Q:125:THR:CG2	1:o:551:THR:CG2	2.83	0.43
1:Q:551:THR:HG22	1:o:125:THR:HB	1.97	0.43
1:W:53:VAL:HG13	1:q:50:LEU:O	2.18	0.43
1:b:159:LEU:CD1	1:b:220:PRO:HG3	2.46	0.43
1:3:96:PRO:HA	1:b:241:LEU:O	2.17	0.43
1:6:551:THR:HG22	1:c:125:THR:HB	1.97	0.43
1:7:241:LEU:O	1:s:96:PRO:HA	2.16	0.43
1:A:50:LEU:O	1:k:53:VAL:HG13	2.18	0.43
1:A:159:LEU:CD1	1:A:220:PRO:HG3	2.46	0.43
1:D:560:THR:HG23	1:V:212:PHE:CE2	2.52	0.43
1:I:236:ILE:CD1	1:e:531:GLU:HG2	2.45	0.43
1:Q:127:THR:CG2	1:o:552:ILE:CG1	2.64	0.43
1:U:49:ARG:HB2	1:V:53:VAL:HG12	1.98	0.43
1:U:55:TRP:HZ3	1:V:207:LYS:C	2.27	0.43
1:a:53:VAL:HG13	1:b:50:LEU:O	2.18	0.43
1:b:207:LYS:C	1:x:55:TRP:HZ3	2.27	0.43
1:e:159:LEU:CD1	1:e:220:PRO:HG3	2.46	0.43
1:h:96:PRO:HA	1:o:241:LEU:O	2.17	0.43
1:k:190:LYS:HZ1	1:v:190:LYS:NZ	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:531:GLU:HG2	1:u:236:ILE:CD1	2.45	0.43
1:q:207:LYS:C	1:s:55:TRP:HZ3	2.27	0.43
1:t:50:LEU:O	1:w:53:VAL:HG13	2.18	0.43
1:1:207:LYS:C	1:R:55:TRP:HZ3	2.27	0.43
1:1:560:THR:HG23	1:u:212:PHE:CE2	2.52	0.43
1:3:560:THR:HG23	1:x:212:PHE:CE2	2.52	0.43
1:3:561:TYR:HD1	1:b:157:LEU:CG	2.23	0.43
1:4:551:THR:HG22	1:O:125:THR:HB	1.97	0.43
1:6:159:LEU:CD1	1:6:220:PRO:HG3	2.46	0.43
1:A:241:LEU:O	1:H:96:PRO:HA	2.17	0.43
1:A:531:GLU:HG2	1:U:236:ILE:CD1	2.46	0.43
1:C:55:TRP:HZ3	1:G:207:LYS:C	2.27	0.43
1:D:221:LEU:CD1	1:D:538:PHE:CE2	2.98	0.43
1:H:236:ILE:CD1	1:O:531:GLU:HG2	2.45	0.43
1:I:96:PRO:HA	1:Q:241:LEU:O	2.17	0.43
1:K:552:ILE:HG12	1:h:127:THR:HA	1.87	0.43
1:Q:531:GLU:HG2	1:g:236:ILE:CD1	2.45	0.43
1:R:207:LYS:C	1:z:55:TRP:HZ3	2.27	0.43
1:T:241:LEU:O	1:U:96:PRO:HA	2.17	0.43
1:X:555:PRO:CA	1:t:214:HIS:HD1	2.30	0.43
1:Z:552:ILE:HG12	1:w:127:THR:HA	1.87	0.43
1:f:207:LYS:C	1:p:55:TRP:HZ3	2.27	0.43
1:g:212:PHE:CE2	1:r:560:THR:HG23	2.52	0.43
1:h:531:GLU:HG2	1:o:236:ILE:CD1	2.45	0.43
1:p:236:ILE:CD1	1:v:531:GLU:HG2	2.45	0.43
1:r:207:LYS:C	1:w:55:TRP:HZ3	2.27	0.43
1:t:55:TRP:HZ3	1:w:207:LYS:C	2.27	0.43
1:O:190:LYS:HZ1	1:V:190:LYS:NZ	2.17	0.43
1:6:53:VAL:HG13	1:T:50:LEU:O	2.18	0.43
1:7:96:PRO:HA	1:P:241:LEU:O	2.17	0.43
1:B:389:LEU:CD1	1:B:470:PHE:CD1	3.02	0.43
1:D:207:LYS:C	1:M:55:TRP:HZ3	2.27	0.43
1:E:55:TRP:HZ3	1:v:207:LYS:C	2.27	0.43
1:F:207:LYS:C	1:y:55:TRP:HZ3	2.27	0.43
1:G:190:LYS:NZ	1:a:190:LYS:HZ1	2.17	0.43
1:K:190:LYS:NZ	1:r:190:LYS:HZ1	2.17	0.43
1:O:389:LEU:CD1	1:O:470:PHE:CD1	3.02	0.43
1:P:389:LEU:CD1	1:P:470:PHE:CD1	3.02	0.43
1:Q:48:LYS:CA	1:u:56:GLN:CD	2.88	0.43
1:Q:551:THR:CG2	1:o:125:THR:CG2	2.83	0.43
1:R:53:VAL:HG13	1:z:50:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:159:LEU:CD1	1:R:220:PRO:HG3	2.46	0.43
1:R:190:LYS:HD3	1:m:190:LYS:NZ	2.20	0.43
1:T:389:LEU:CD1	1:T:470:PHE:CD1	3.02	0.43
1:W:241:LEU:O	1:f:96:PRO:HA	2.17	0.43
1:X:389:LEU:CD1	1:X:470:PHE:CD1	3.02	0.43
1:f:159:LEU:CD1	1:f:220:PRO:HG3	2.46	0.43
1:g:389:LEU:CD1	1:g:470:PHE:CD1	3.02	0.43
1:i:159:LEU:CD1	1:i:220:PRO:HG3	2.46	0.43
1:m:389:LEU:CD1	1:m:470:PHE:CD1	3.02	0.43
1:m:555:PRO:CA	1:z:214:HIS:HD1	2.30	0.43
1:u:389:LEU:CD1	1:u:470:PHE:CD1	3.02	0.43
1:w:159:LEU:CD1	1:w:220:PRO:HG3	2.46	0.43
1:w:221:LEU:CD1	1:w:538:PHE:CE2	2.98	0.43
1:0:389:LEU:CD1	1:0:470:PHE:CD1	3.02	0.43
1:7:50:LEU:O	1:i:53:VAL:HG13	2.18	0.43
1:7:127:THR:CG2	1:N:552:ILE:CG1	2.64	0.43
1:7:389:LEU:CD1	1:7:470:PHE:CD1	3.02	0.43
1:B:190:LYS:HZ1	1:q:190:LYS:NZ	2.17	0.43
1:F:50:LEU:O	1:n:53:VAL:HG13	2.18	0.43
1:H:560:THR:HG23	1:S:212:PHE:CE2	2.52	0.43
1:I:389:LEU:CD1	1:I:470:PHE:CD1	3.02	0.43
1:I:545:ASP:OD2	1:N:156:SER:CB	2.53	0.43
1:L:50:LEU:O	1:c:53:VAL:HG13	2.18	0.43
1:L:207:LYS:C	1:Z:55:TRP:HZ3	2.27	0.43
1:Q:207:LYS:C	1:l:55:TRP:HZ3	2.27	0.43
1:S:221:LEU:CD1	1:S:538:PHE:CE2	2.98	0.43
1:Z:214:HIS:HD1	1:w:555:PRO:CA	2.30	0.43
1:h:389:LEU:CD1	1:h:470:PHE:CD1	3.02	0.43
1:j:389:LEU:CD1	1:j:470:PHE:CD1	3.02	0.43
1:l:207:LYS:C	1:u:55:TRP:HZ3	2.27	0.43
1:x:221:LEU:CD1	1:x:538:PHE:CE2	2.98	0.43
1:2:389:LEU:CD1	1:2:470:PHE:CD1	3.02	0.42
1:3:389:LEU:CD1	1:3:470:PHE:CD1	3.02	0.42
1:4:389:LEU:CD1	1:4:470:PHE:CD1	3.02	0.42
1:5:190:LYS:NZ	1:d:190:LYS:HZ1	2.17	0.42
1:7:207:LYS:C	1:B:55:TRP:HZ3	2.27	0.42
1:7:549:MET:HG2	1:N:125:THR:HG21	2.01	0.42
1:C:214:HIS:HD1	1:a:555:PRO:CA	2.30	0.42
1:C:221:LEU:CD1	1:C:538:PHE:CE2	2.98	0.42
1:C:389:LEU:CD1	1:C:470:PHE:CD1	3.02	0.42
1:D:159:LEU:CD1	1:D:220:PRO:HG3	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:214:HIS:HD1	1:k:555:PRO:CA	2.30	0.42
1:H:190:LYS:NZ	1:O:190:LYS:HZ1	2.17	0.42
1:H:389:LEU:CD1	1:H:470:PHE:CD1	3.02	0.42
1:I:156:SER:CB	1:P:545:ASP:OD2	2.53	0.42
1:J:190:LYS:NZ	1:j:190:LYS:HZ1	2.17	0.42
1:K:55:TRP:HZ3	1:o:207:LYS:C	2.27	0.42
1:K:159:LEU:CD1	1:K:220:PRO:CB	2.98	0.42
1:K:207:LYS:C	1:g:55:TRP:HZ3	2.27	0.42
1:N:389:LEU:CD1	1:N:470:PHE:CD1	3.02	0.42
1:a:389:LEU:CD1	1:a:470:PHE:CD1	3.02	0.42
1:b:531:GLU:HG2	1:s:236:ILE:CD1	2.46	0.42
1:d:389:LEU:CD1	1:d:470:PHE:CD1	3.02	0.42
1:e:389:LEU:CD1	1:e:470:PHE:CD1	3.02	0.42
1:g:159:LEU:CD1	1:g:220:PRO:CB	2.98	0.42
1:k:389:LEU:CD1	1:k:470:PHE:CD1	3.02	0.42
1:l:159:LEU:CD1	1:l:220:PRO:CB	2.98	0.42
1:t:389:LEU:CD1	1:t:470:PHE:CD1	3.02	0.42
1:u:159:LEU:CD1	1:u:220:PRO:CB	2.98	0.42
1:z:389:LEU:CD1	1:z:470:PHE:CD1	3.02	0.42
1:0:55:TRP:HZ3	1:T:207:LYS:C	2.27	0.42
1:1:55:TRP:HZ3	1:z:207:LYS:C	2.27	0.42
1:2:125:THR:HG21	1:T:549:MET:HG2	2.01	0.42
1:3:190:LYS:NZ	1:P:190:LYS:HZ1	2.17	0.42
1:4:207:LYS:C	1:m:55:TRP:HZ3	2.27	0.42
1:6:207:LYS:C	1:T:55:TRP:HZ3	2.27	0.42
1:7:55:TRP:HZ3	1:i:207:LYS:C	2.27	0.42
1:A:159:LEU:CD1	1:A:220:PRO:CB	2.98	0.42
1:C:212:PHE:CE2	1:a:560:THR:HG23	2.52	0.42
1:D:96:PRO:HA	1:Y:241:LEU:O	2.17	0.42
1:E:221:LEU:CD1	1:E:538:PHE:CE2	2.98	0.42
1:E:389:LEU:CD1	1:E:470:PHE:CD1	3.02	0.42
1:G:531:GLU:HG2	1:M:236:ILE:CD1	2.45	0.42
1:G:549:MET:HG2	1:j:125:THR:HG21	2.01	0.42
1:I:125:THR:HG21	1:l:549:MET:HG2	2.01	0.42
1:K:549:MET:HG2	1:h:125:THR:HG21	2.01	0.42
1:N:190:LYS:NZ	1:l:190:LYS:HZ1	2.17	0.42
1:O:241:LEU:O	1:T:96:PRO:HA	2.16	0.42
1:O:545:ASP:OD2	1:h:156:SER:CB	2.53	0.42
1:P:159:LEU:CD1	1:P:220:PRO:CB	2.98	0.42
1:R:221:LEU:CD1	1:R:538:PHE:CE2	2.98	0.42
1:W:50:LEU:O	1:s:53:VAL:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:159:LEU:CD1	1:W:220:PRO:CB	2.97	0.42
1:Y:159:LEU:CD1	1:Y:220:PRO:CB	2.97	0.42
1:b:159:LEU:CD1	1:b:220:PRO:CB	2.98	0.42
1:e:236:ILE:CD1	1:t:531:GLU:HG2	2.46	0.42
1:g:56:GLN:CD	1:o:48:LYS:CA	2.88	0.42
1:m:560:THR:HG23	1:z:212:PHE:CE2	2.52	0.42
1:r:55:TRP:HZ3	1:t:207:LYS:C	2.27	0.42
1:t:159:LEU:CD1	1:t:220:PRO:CB	2.97	0.42
1:z:159:LEU:CD1	1:z:220:PRO:CB	2.97	0.42
1:4:555:PRO:CA	1:O:214:HIS:HD1	2.30	0.42
1:7:159:LEU:CD1	1:7:220:PRO:CB	2.98	0.42
1:D:55:TRP:HZ3	1:j:207:LYS:C	2.27	0.42
1:N:221:LEU:CD1	1:N:538:PHE:CE2	2.98	0.42
1:O:159:LEU:CD1	1:O:220:PRO:CB	2.98	0.42
1:Q:55:TRP:HZ3	1:u:207:LYS:C	2.27	0.42
1:R:159:LEU:CD1	1:R:220:PRO:CB	2.97	0.42
1:T:159:LEU:CD1	1:T:220:PRO:CB	2.98	0.42
1:V:190:LYS:HZ1	1:j:190:LYS:NZ	2.17	0.42
1:X:55:TRP:HZ3	1:e:207:LYS:C	2.27	0.42
1:X:190:LYS:NZ	1:w:190:LYS:HD3	2.20	0.42
1:d:125:THR:HG21	1:v:549:MET:HG2	2.01	0.42
1:d:190:LYS:NZ	1:q:190:LYS:HZ1	2.17	0.42
1:g:207:LYS:C	1:o:55:TRP:HZ3	2.27	0.42
1:o:389:LEU:CD1	1:o:470:PHE:CD1	3.02	0.42
1:2:55:TRP:HZ3	1:O:207:LYS:C	2.27	0.42
1:2:221:LEU:CD1	1:2:538:PHE:CE2	2.98	0.42
1:5:207:LYS:C	1:v:55:TRP:HZ3	2.27	0.42
1:5:221:LEU:CD1	1:5:538:PHE:CE2	2.98	0.42
1:A:55:TRP:HZ3	1:k:207:LYS:C	2.27	0.42
1:A:96:PRO:HA	1:U:241:LEU:O	2.16	0.42
1:D:389:LEU:CD1	1:D:470:PHE:CD1	3.02	0.42
1:E:212:PHE:CE2	1:k:560:THR:HG23	2.52	0.42
1:I:159:LEU:CD1	1:I:220:PRO:CB	2.98	0.42
1:J:389:LEU:CD1	1:J:470:PHE:CD1	3.02	0.42
1:K:389:LEU:CD1	1:K:470:PHE:CD1	3.02	0.42
1:N:55:TRP:HZ3	1:P:207:LYS:C	2.27	0.42
1:P:214:HIS:HD1	1:e:555:PRO:CA	2.30	0.42
1:Q:389:LEU:CD1	1:Q:470:PHE:CD1	3.02	0.42
1:U:53:VAL:HG13	1:Y:50:LEU:O	2.18	0.42
1:X:560:THR:HG23	1:t:212:PHE:CE2	2.52	0.42
1:c:389:LEU:CD1	1:c:470:PHE:CD1	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:207:LYS:C	1:f:55:TRP:HZ3	2.27	0.42
1:f:389:LEU:CD1	1:f:470:PHE:CD1	3.02	0.42
1:l:389:LEU:CD1	1:l:470:PHE:CD1	3.02	0.42
1:n:159:LEU:CD1	1:n:220:PRO:CB	2.97	0.42
1:n:389:LEU:CD1	1:n:470:PHE:CD1	3.02	0.42
1:o:96:PRO:HA	1:u:241:LEU:O	2.17	0.42
1:w:159:LEU:CD1	1:w:220:PRO:CB	2.97	0.42
1:2:190:LYS:HZ1	1:6:190:LYS:NZ	2.18	0.42
1:2:207:LYS:C	1:h:55:TRP:HZ3	2.27	0.42
1:4:125:THR:HB	1:O:551:THR:HG22	1.97	0.42
1:5:55:TRP:HZ3	1:E:207:LYS:C	2.27	0.42
1:5:125:THR:HG21	1:F:549:MET:HG2	2.01	0.42
1:C:207:LYS:C	1:J:55:TRP:HZ3	2.27	0.42
1:D:561:TYR:HD1	1:Y:157:LEU:CG	2.23	0.42
1:G:55:TRP:HZ3	1:J:207:LYS:C	2.27	0.42
1:G:125:THR:HG21	1:j:549:MET:HG2	2.01	0.42
1:M:53:VAL:HG12	1:j:49:ARG:HB2	1.98	0.42
1:M:190:LYS:HZ1	1:f:190:LYS:NZ	2.17	0.42
1:N:190:LYS:HZ1	1:i:190:LYS:NZ	2.18	0.42
1:S:207:LYS:C	1:k:55:TRP:HZ3	2.27	0.42
1:S:389:LEU:CD1	1:S:470:PHE:CD1	3.02	0.42
1:X:221:LEU:CD1	1:X:538:PHE:CE2	2.98	0.42
1:a:55:TRP:HZ3	1:x:207:LYS:C	2.27	0.42
1:a:159:LEU:CD1	1:a:220:PRO:CB	2.98	0.42
1:c:159:LEU:CD1	1:c:220:PRO:CB	2.97	0.42
1:d:221:LEU:CD1	1:d:538:PHE:CE2	2.98	0.42
1:d:549:MET:HG2	1:v:125:THR:HG21	2.01	0.42
1:h:159:LEU:CD1	1:h:220:PRO:CB	2.98	0.42
1:k:159:LEU:CD1	1:k:220:PRO:HG3	2.46	0.42
1:x:389:LEU:CD1	1:x:470:PHE:CD1	3.02	0.42
1:0:159:LEU:CD1	1:0:220:PRO:CB	2.98	0.42
1:2:190:LYS:NZ	1:K:190:LYS:HZ1	2.18	0.42
1:3:549:MET:HG2	1:x:125:THR:HG21	2.02	0.42
1:5:389:LEU:CD1	1:5:470:PHE:CD1	3.02	0.42
1:7:551:THR:HG22	1:N:125:THR:HB	1.97	0.42
1:A:552:ILE:CG1	1:Y:127:THR:CG2	2.64	0.42
1:B:159:LEU:CD1	1:B:220:PRO:CB	2.98	0.42
1:B:190:LYS:NZ	1:n:190:LYS:HZ1	2.17	0.42
1:H:549:MET:HG2	1:S:125:THR:HG21	2.02	0.42
1:I:551:THR:HG22	1:l:125:THR:HB	1.97	0.42
1:J:125:THR:HG21	1:L:549:MET:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:221:LEU:CD1	1:J:538:PHE:CE2	2.98	0.42
1:M:207:LYS:C	1:j:55:TRP:HZ3	2.27	0.42
1:O:55:TRP:HZ3	1:h:207:LYS:C	2.27	0.42
1:P:551:THR:HG22	1:e:125:THR:HB	1.97	0.42
1:Q:70:CYS:HB2	1:g:235:TYR:CE2	2.55	0.42
1:Q:96:PRO:HA	1:g:241:LEU:O	2.17	0.42
1:T:157:LEU:CG	1:U:561:TYR:HD1	2.23	0.42
1:W:125:THR:HB	1:b:551:THR:HG22	1.97	0.42
1:W:157:LEU:CG	1:f:561:TYR:HD1	2.23	0.42
1:a:207:LYS:C	1:b:55:TRP:HZ3	2.27	0.42
1:d:55:TRP:HZ3	1:p:207:LYS:C	2.27	0.42
1:i:70:CYS:HB2	1:y:235:TYR:CE2	2.55	0.42
1:k:159:LEU:CD1	1:k:220:PRO:CB	2.97	0.42
1:v:159:LEU:CD1	1:v:220:PRO:HG3	2.46	0.42
1:O:125:THR:HG21	1:U:549:MET:HG2	2.01	0.42
1:2:159:LEU:CD1	1:2:220:PRO:CB	2.98	0.42
1:3:55:TRP:HZ3	1:X:207:LYS:C	2.27	0.42
1:3:159:LEU:CD1	1:3:220:PRO:CB	2.97	0.42
1:6:70:CYS:HB2	1:Z:235:TYR:CE2	2.55	0.42
1:D:159:LEU:CD1	1:D:220:PRO:CB	2.98	0.42
1:G:389:LEU:CD1	1:G:470:PHE:CD1	3.02	0.42
1:H:55:TRP:HZ3	1:m:207:LYS:C	2.27	0.42
1:I:55:TRP:HZ3	1:N:207:LYS:C	2.27	0.42
1:K:125:THR:HG21	1:h:549:MET:HG2	2.01	0.42
1:N:159:LEU:CD1	1:N:220:PRO:CB	2.98	0.42
1:W:127:THR:CG2	1:b:552:ILE:CG1	2.64	0.42
1:Y:389:LEU:CD1	1:Y:470:PHE:CD1	3.02	0.42
1:Z:207:LYS:C	1:c:55:TRP:HZ3	2.27	0.42
1:a:221:LEU:CD1	1:a:538:PHE:CE2	2.98	0.42
1:f:159:LEU:CD1	1:f:220:PRO:CB	2.97	0.42
1:o:70:CYS:HB2	1:u:235:TYR:CE2	2.55	0.42
1:v:389:LEU:CD1	1:v:470:PHE:CD1	3.02	0.42
1:1:70:CYS:HB2	1:l:235:TYR:CE2	2.55	0.42
1:2:125:THR:HB	1:T:551:THR:HG22	1.97	0.42
1:4:70:CYS:HB2	1:h:235:TYR:CE2	2.55	0.42
1:5:53:VAL:HG22	1:v:51:ASN:HA	2.02	0.42
1:6:53:VAL:HG22	1:T:51:ASN:HA	2.02	0.42
1:6:125:THR:HB	1:c:551:THR:HG22	1.97	0.42
1:7:51:ASN:HA	1:i:53:VAL:HG22	2.02	0.42
1:7:70:CYS:HB2	1:P:235:TYR:CE2	2.55	0.42
1:A:190:LYS:HZ1	1:U:190:LYS:NZ	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:LEU:CD1	1:A:470:PHE:CD1	3.02	0.42
1:B:125:THR:HG21	1:s:549:MET:HG2	2.02	0.42
1:F:51:ASN:HA	1:n:53:VAL:HG22	2.02	0.42
1:F:55:TRP:HZ3	1:n:207:LYS:C	2.27	0.42
1:G:70:CYS:HB2	1:M:235:TYR:CE2	2.55	0.42
1:H:159:LEU:CD1	1:H:220:PRO:CB	2.97	0.42
1:I:235:TYR:CE2	1:e:70:CYS:HB2	2.55	0.42
1:I:549:MET:HG2	1:l:125:THR:HG21	2.01	0.42
1:K:51:ASN:HA	1:o:53:VAL:HG22	2.02	0.42
1:K:125:THR:HB	1:h:551:THR:HG22	1.97	0.42
1:K:235:TYR:CE2	1:r:70:CYS:HB2	2.55	0.42
1:L:51:ASN:HA	1:c:53:VAL:HG22	2.02	0.42
1:Q:53:VAL:HG22	1:l:51:ASN:HA	2.02	0.42
1:W:55:TRP:HZ3	1:s:207:LYS:C	2.27	0.42
1:Z:389:LEU:CD1	1:Z:470:PHE:CD1	3.02	0.42
1:b:190:LYS:HZ1	1:s:190:LYS:NZ	2.18	0.42
1:b:389:LEU:CD1	1:b:470:PHE:CD1	3.02	0.42
1:d:49:ARG:HB2	1:p:53:VAL:HG12	1.98	0.42
1:f:549:MET:HG2	1:q:125:THR:HG21	2.01	0.42
1:i:159:LEU:CD1	1:i:220:PRO:CB	2.97	0.42
1:k:221:LEU:CD1	1:k:538:PHE:CE2	2.98	0.42
1:m:221:LEU:CD1	1:m:538:PHE:CE2	2.98	0.42
1:n:55:TRP:HZ3	1:y:207:LYS:C	2.27	0.42
1:p:190:LYS:NZ	1:v:190:LYS:HZ1	2.18	0.42
1:p:235:TYR:CE2	1:v:70:CYS:HB2	2.55	0.42
1:r:159:LEU:CD1	1:r:220:PRO:CB	2.97	0.42
1:y:389:LEU:CD1	1:y:470:PHE:CD1	3.02	0.42
1:1:53:VAL:HG22	1:R:51:ASN:HA	2.02	0.42
1:1:159:LEU:CD1	1:1:220:PRO:CB	2.97	0.42
1:3:207:LYS:C	1:e:55:TRP:HZ3	2.27	0.42
1:4:55:TRP:HZ3	1:H:207:LYS:C	2.27	0.42
1:6:159:LEU:CD1	1:6:220:PRO:CB	2.97	0.42
1:7:157:LEU:CG	1:s:561:TYR:HD1	2.22	0.42
1:D:545:ASP:OD2	1:j:156:SER:CB	2.53	0.42
1:D:549:MET:HG2	1:V:125:THR:HG21	2.01	0.42
1:E:70:CYS:HB2	1:S:235:TYR:CE2	2.55	0.42
1:F:545:ASP:OD2	1:n:156:SER:CB	2.53	0.42
1:G:51:ASN:HA	1:J:53:VAL:HG22	2.02	0.42
1:G:159:LEU:CD1	1:G:220:PRO:HG3	2.46	0.42
1:G:190:LYS:HZ1	1:M:190:LYS:NZ	2.18	0.42
1:G:552:ILE:CG1	1:j:127:THR:CG2	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:55:TRP:HZ3	1:c:207:LYS:C	2.27	0.42
1:L:389:LEU:CD1	1:L:470:PHE:CD1	3.02	0.42
1:O:235:TYR:CE2	1:T:70:CYS:HB2	2.55	0.42
1:U:207:LYS:C	1:Y:55:TRP:HZ3	2.27	0.42
1:U:389:LEU:CD1	1:U:470:PHE:CD1	3.02	0.42
1:V:389:LEU:CD1	1:V:470:PHE:CD1	3.02	0.42
1:W:389:LEU:CD1	1:W:470:PHE:CD1	3.02	0.42
1:a:159:LEU:CD1	1:a:220:PRO:HG3	2.46	0.42
1:a:545:ASP:OD2	1:x:156:SER:CB	2.53	0.42
1:b:96:PRO:HA	1:s:241:LEU:O	2.17	0.42
1:g:70:CYS:HB2	1:t:235:TYR:CE2	2.55	0.42
1:g:549:MET:HG2	1:r:125:THR:HG21	2.01	0.42
1:j:221:LEU:CD1	1:j:538:PHE:CE2	2.98	0.42
1:s:389:LEU:CD1	1:s:470:PHE:CD1	3.02	0.42
1:t:48:LYS:CA	1:w:56:GLN:CD	2.88	0.42
1:u:70:CYS:HB2	1:z:235:TYR:CE2	2.55	0.42
1:w:389:LEU:CD1	1:w:470:PHE:CD1	3.02	0.42
1:x:159:LEU:CD1	1:x:220:PRO:CB	2.97	0.42
1:0:159:LEU:CD1	1:0:220:PRO:CG	2.98	0.42
1:1:125:THR:HG21	1:u:549:MET:HG2	2.01	0.42
1:1:125:THR:HB	1:u:551:THR:HG22	1.97	0.42
1:1:389:LEU:CD1	1:1:470:PHE:CD1	3.02	0.42
1:2:204:THR:HG23	1:2:205:GLN:HE21	1.85	0.42
1:5:235:TYR:CE2	1:d:70:CYS:HB2	2.55	0.42
1:6:389:LEU:CD1	1:6:470:PHE:CD1	3.02	0.42
1:7:159:LEU:CD1	1:7:220:PRO:HG3	2.46	0.42
1:7:190:LYS:HZ1	1:P:190:LYS:NZ	2.18	0.42
1:A:125:THR:HG21	1:Y:549:MET:HG2	2.02	0.42
1:A:551:THR:HG22	1:Y:125:THR:HB	1.97	0.42
1:B:159:LEU:CD1	1:B:220:PRO:CG	2.98	0.42
1:C:70:CYS:HB2	1:x:235:TYR:CE2	2.55	0.42
1:D:53:VAL:HG22	1:M:51:ASN:HA	2.02	0.42
1:F:389:LEU:CD1	1:F:470:PHE:CD1	3.02	0.42
1:J:235:TYR:CE2	1:j:70:CYS:HB2	2.55	0.42
1:M:389:LEU:CD1	1:M:470:PHE:CD1	3.02	0.42
1:O:190:LYS:NZ	1:T:190:LYS:HZ1	2.18	0.42
1:Q:159:LEU:CD1	1:Q:220:PRO:CB	2.97	0.42
1:R:389:LEU:CD1	1:R:470:PHE:CD1	3.02	0.42
1:S:159:LEU:CD1	1:S:220:PRO:CB	2.97	0.42
1:U:159:LEU:CD1	1:U:220:PRO:CB	2.97	0.42
1:U:159:LEU:CD1	1:U:220:PRO:HG3	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:549:MET:HG2	1:b:125:THR:HG21	2.02	0.42
1:Z:159:LEU:CD1	1:Z:220:PRO:CB	2.98	0.42
1:d:204:THR:HG23	1:d:205:GLN:HE21	1.85	0.42
1:f:53:VAL:HG22	1:p:51:ASN:HA	2.02	0.42
1:g:96:PRO:HA	1:t:241:LEU:O	2.17	0.42
1:g:204:THR:HG23	1:g:205:GLN:HE21	1.85	0.42
1:r:53:VAL:HG22	1:w:51:ASN:HA	2.02	0.42
1:r:204:THR:HG23	1:r:205:GLN:HE21	1.85	0.42
1:s:159:LEU:CD1	1:s:220:PRO:CB	2.97	0.42
1:u:204:THR:HG23	1:u:205:GLN:HE21	1.85	0.42
1:w:204:THR:HG23	1:w:205:GLN:HE21	1.85	0.42
1:y:159:LEU:CD1	1:y:220:PRO:CB	2.98	0.42
1:1:204:THR:HG23	1:1:205:GLN:HE21	1.85	0.41
1:3:51:ASN:HA	1:X:53:VAL:HG22	2.02	0.41
1:4:53:VAL:HG22	1:m:51:ASN:HA	2.02	0.41
1:7:235:TYR:CE2	1:s:70:CYS:HB2	2.55	0.41
1:A:204:THR:HG23	1:A:205:GLN:HE21	1.85	0.41
1:D:70:CYS:HB2	1:Y:235:TYR:CE2	2.55	0.41
1:H:51:ASN:HA	1:m:53:VAL:HG22	2.02	0.41
1:I:204:THR:HG23	1:I:205:GLN:HE21	1.85	0.41
1:I:221:LEU:CD1	1:I:538:PHE:CE2	2.98	0.41
1:J:159:LEU:CD1	1:J:220:PRO:CB	2.98	0.41
1:J:159:LEU:CD1	1:J:220:PRO:CG	2.98	0.41
1:K:53:VAL:HG22	1:g:51:ASN:HA	2.02	0.41
1:N:204:THR:HG23	1:N:205:GLN:HE21	1.85	0.41
1:O:51:ASN:HA	1:h:53:VAL:HG22	2.02	0.41
1:R:56:GLN:CD	1:z:48:LYS:CA	2.88	0.41
1:R:204:THR:HG23	1:R:205:GLN:HE21	1.85	0.41
1:S:156:SER:CB	1:k:545:ASP:OD2	2.53	0.41
1:T:235:TYR:CE2	1:U:70:CYS:HB2	2.55	0.41
1:W:235:TYR:CE2	1:f:70:CYS:HB2	2.55	0.41
1:Z:53:VAL:HG22	1:c:51:ASN:HA	2.02	0.41
1:Z:190:LYS:HZ1	1:r:190:LYS:NZ	2.18	0.41
1:a:159:LEU:CD1	1:a:220:PRO:CG	2.98	0.41
1:b:204:THR:HG23	1:b:205:GLN:HE21	1.85	0.41
1:e:235:TYR:CE2	1:t:70:CYS:HB2	2.55	0.41
1:i:389:LEU:CD1	1:i:470:PHE:CD1	3.02	0.41
1:j:204:THR:HG23	1:j:205:GLN:HE21	1.85	0.41
1:k:159:LEU:CD1	1:k:220:PRO:CG	2.98	0.41
1:m:159:LEU:CD1	1:m:220:PRO:CB	2.98	0.41
1:o:159:LEU:CD1	1:o:220:PRO:CB	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:389:LEU:CD1	1:p:470:PHE:CD1	3.02	0.41
1:q:389:LEU:CD1	1:q:470:PHE:CD1	3.02	0.41
1:z:204:THR:HG23	1:z:205:GLN:HE21	1.85	0.41
1:0:70:CYS:HB2	1:V:235:TYR:CE2	2.55	0.41
1:2:53:VAL:HG22	1:h:51:ASN:HA	2.02	0.41
1:4:159:LEU:CD1	1:4:220:PRO:CB	2.97	0.41
1:4:204:THR:HG23	1:4:205:GLN:HE21	1.85	0.41
1:5:159:LEU:CD1	1:5:220:PRO:CB	2.98	0.41
1:5:159:LEU:CD1	1:5:220:PRO:CG	2.98	0.41
1:6:125:THR:HG21	1:c:549:MET:HG2	2.02	0.41
1:6:549:MET:HG2	1:c:125:THR:HG21	2.02	0.41
1:A:549:MET:HG2	1:Y:125:THR:HG21	2.01	0.41
1:B:70:CYS:HB2	1:q:235:TYR:CE2	2.55	0.41
1:C:159:LEU:CD1	1:C:220:PRO:CB	2.97	0.41
1:F:235:TYR:CE2	1:R:70:CYS:HB2	2.55	0.41
1:G:159:LEU:CD1	1:G:220:PRO:CG	2.98	0.41
1:H:204:THR:HG23	1:H:205:GLN:HE21	1.85	0.41
1:I:51:ASN:HA	1:N:53:VAL:HG22	2.02	0.41
1:I:53:VAL:HG22	1:P:51:ASN:HA	2.02	0.41
1:J:204:THR:HG23	1:J:205:GLN:HE21	1.85	0.41
1:M:159:LEU:CD1	1:M:220:PRO:CB	2.97	0.41
1:U:53:VAL:HG22	1:Y:51:ASN:HA	2.02	0.41
1:V:55:TRP:HZ3	1:Y:207:LYS:C	2.27	0.41
1:W:125:THR:HG21	1:b:549:MET:HG2	2.01	0.41
1:X:51:ASN:HA	1:e:53:VAL:HG22	2.02	0.41
1:X:549:MET:HG2	1:t:125:THR:HG21	2.01	0.41
1:e:159:LEU:CD1	1:e:220:PRO:CB	2.98	0.41
1:h:190:LYS:HZ1	1:o:190:LYS:NZ	2.18	0.41
1:h:204:THR:HG23	1:h:205:GLN:HE21	1.85	0.41
1:i:125:THR:HB	1:n:551:THR:HG22	1.97	0.41
1:j:159:LEU:CD1	1:j:220:PRO:HG3	2.46	0.41
1:l:53:VAL:HG22	1:u:51:ASN:HA	2.02	0.41
1:n:51:ASN:HA	1:y:53:VAL:HG22	2.02	0.41
1:p:159:LEU:CD1	1:p:220:PRO:CB	2.97	0.41
1:r:389:LEU:CD1	1:r:470:PHE:CD1	3.02	0.41
1:t:159:LEU:CD1	1:t:220:PRO:CG	2.98	0.41
1:t:204:THR:HG23	1:t:205:GLN:HE21	1.85	0.41
1:v:159:LEU:CD1	1:v:220:PRO:CG	2.98	0.41
1:z:159:LEU:CD1	1:z:220:PRO:CG	2.98	0.41
1:3:204:THR:HG23	1:3:205:GLN:HE21	1.85	0.41
1:4:235:TYR:CE2	1:z:70:CYS:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:204:THR:HG23	1:5:205:GLN:HE21	1.85	0.41
1:E:159:LEU:CD1	1:E:220:PRO:CB	2.98	0.41
1:F:159:LEU:CD1	1:F:220:PRO:CB	2.98	0.41
1:L:235:TYR:CE2	1:w:70:CYS:HB2	2.55	0.41
1:L:545:ASP:OD2	1:c:156:SER:CB	2.53	0.41
1:R:235:TYR:CE2	1:m:70:CYS:HB2	2.55	0.41
1:T:159:LEU:CD1	1:T:220:PRO:HG3	2.46	0.41
1:U:159:LEU:CD1	1:U:220:PRO:CG	2.98	0.41
1:W:51:ASN:HA	1:s:53:VAL:HG22	2.02	0.41
1:W:236:ILE:CD1	1:f:531:GLU:HG2	2.46	0.41
1:X:159:LEU:CD1	1:X:220:PRO:CB	2.98	0.41
1:d:159:LEU:CD1	1:d:220:PRO:CB	2.98	0.41
1:d:159:LEU:CD1	1:d:220:PRO:CG	2.98	0.41
1:g:551:THR:HG22	1:r:125:THR:HB	1.97	0.41
1:i:125:THR:HG21	1:n:549:MET:HG2	2.02	0.41
1:i:190:LYS:HZ1	1:y:190:LYS:NZ	2.17	0.41
1:q:159:LEU:CD1	1:q:220:PRO:CB	2.97	0.41
1:s:159:LEU:CD1	1:s:220:PRO:CG	2.98	0.41
1:s:159:LEU:CD1	1:s:220:PRO:HG3	2.46	0.41
1:1:156:SER:CB	1:R:545:ASP:OD2	2.53	0.41
1:3:159:LEU:CD1	1:3:220:PRO:CG	2.98	0.41
1:6:190:LYS:HZ1	1:Z:190:LYS:NZ	2.18	0.41
1:B:207:LYS:C	1:i:55:TRP:HZ3	2.27	0.41
1:C:53:VAL:HG22	1:J:51:ASN:HA	2.02	0.41
1:D:159:LEU:CD1	1:D:220:PRO:CG	2.98	0.41
1:E:560:THR:HG23	1:k:212:PHE:CE2	2.52	0.41
1:H:125:THR:HG21	1:S:549:MET:HG2	2.02	0.41
1:H:159:LEU:CD1	1:H:220:PRO:CG	2.98	0.41
1:I:190:LYS:HZ1	1:Q:190:LYS:NZ	2.18	0.41
1:L:159:LEU:CD1	1:L:220:PRO:CB	2.98	0.41
1:O:159:LEU:CD1	1:O:220:PRO:CG	2.98	0.41
1:P:159:LEU:CD1	1:P:220:PRO:CG	2.98	0.41
1:Q:159:LEU:CD1	1:Q:220:PRO:HG3	2.46	0.41
1:R:307:VAL:HG12	1:R:309:GLY:H	1.86	0.41
1:S:159:LEU:CD1	1:S:220:PRO:CG	2.98	0.41
1:V:159:LEU:CD1	1:V:220:PRO:CB	2.97	0.41
1:W:70:CYS:HB2	1:a:235:TYR:CE2	2.55	0.41
1:W:159:LEU:CD1	1:W:220:PRO:CG	2.98	0.41
1:W:207:LYS:C	1:q:55:TRP:HZ3	2.27	0.41
1:X:70:CYS:HB2	1:w:235:TYR:CE2	2.55	0.41
1:Y:70:CYS:HB2	1:k:235:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:159:LEU:CD1	1:Y:220:PRO:CG	2.98	0.41
1:Z:70:CYS:HB2	1:r:235:TYR:CE2	2.55	0.41
1:d:159:LEU:CD1	1:d:220:PRO:HG3	2.46	0.41
1:e:204:THR:HG23	1:e:205:GLN:HE21	1.85	0.41
1:f:159:LEU:CD1	1:f:220:PRO:CG	2.98	0.41
1:f:204:THR:HG23	1:f:205:GLN:HE21	1.85	0.41
1:h:221:LEU:CD1	1:h:538:PHE:CE2	2.98	0.41
1:h:307:VAL:HG12	1:h:309:GLY:H	1.86	0.41
1:i:549:MET:HG2	1:n:125:THR:HG21	2.02	0.41
1:j:159:LEU:CD1	1:j:220:PRO:CB	2.98	0.41
1:j:159:LEU:CD1	1:j:220:PRO:CG	2.98	0.41
1:m:549:MET:HG2	1:z:125:THR:HG21	2.01	0.41
1:r:159:LEU:CD1	1:r:220:PRO:CG	2.98	0.41
1:u:96:PRO:HA	1:z:241:LEU:O	2.17	0.41
1:w:307:VAL:HG12	1:w:309:GLY:H	1.86	0.41
1:0:207:LYS:C	1:6:55:TRP:HZ3	2.27	0.41
1:0:307:VAL:HG12	1:0:309:GLY:H	1.86	0.41
1:1:159:LEU:CD1	1:1:220:PRO:CG	2.98	0.41
1:2:70:CYS:HB2	1:6:235:TYR:CE2	2.55	0.41
1:2:235:TYR:CE2	1:K:70:CYS:HB2	2.55	0.41
1:3:125:THR:HG21	1:x:549:MET:HG2	2.02	0.41
1:3:307:VAL:HG12	1:3:309:GLY:H	1.86	0.41
1:6:96:PRO:HA	1:Z:241:LEU:O	2.17	0.41
1:B:307:VAL:HG12	1:B:309:GLY:H	1.86	0.41
1:D:204:THR:HG23	1:D:205:GLN:HE21	1.85	0.41
1:F:307:VAL:HG12	1:F:309:GLY:H	1.86	0.41
1:H:307:VAL:HG12	1:H:309:GLY:H	1.86	0.41
1:I:307:VAL:HG12	1:I:309:GLY:H	1.86	0.41
1:K:204:THR:HG23	1:K:205:GLN:HE21	1.85	0.41
1:M:53:VAL:HG22	1:j:51:ASN:HA	2.02	0.41
1:U:204:THR:HG23	1:U:205:GLN:HE21	1.85	0.41
1:V:531:GLU:HG2	1:j:236:ILE:CD1	2.46	0.41
1:W:190:LYS:NZ	1:f:190:LYS:HZ1	2.18	0.41
1:X:307:VAL:HG12	1:X:309:GLY:H	1.86	0.41
1:Z:204:THR:HG23	1:Z:205:GLN:HE21	1.85	0.41
1:Z:549:MET:HG2	1:w:125:THR:HG21	2.01	0.41
1:g:159:LEU:CD1	1:g:220:PRO:CG	2.98	0.41
1:g:552:ILE:CG1	1:r:127:THR:CG2	2.64	0.41
1:l:204:THR:HG23	1:l:205:GLN:HE21	1.85	0.41
1:m:307:VAL:HG12	1:m:309:GLY:H	1.86	0.41
1:o:159:LEU:CD1	1:o:220:PRO:CG	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:159:LEU:CD1	1:u:220:PRO:CG	2.98	0.41
1:u:190:LYS:HZ1	1:z:190:LYS:NZ	2.19	0.41
1:v:159:LEU:CD1	1:v:220:PRO:CB	2.98	0.41
1:x:159:LEU:CD1	1:x:220:PRO:CG	2.98	0.41
1:1:235:TYR:CE2	1:y:70:CYS:HB2	2.55	0.41
1:2:241:LEU:O	1:K:96:PRO:HA	2.17	0.41
1:4:307:VAL:HG12	1:4:309:GLY:H	1.86	0.41
1:5:51:ASN:HA	1:E:53:VAL:HG22	2.02	0.41
1:5:70:CYS:HB2	1:n:235:TYR:CE2	2.55	0.41
1:A:159:LEU:CD1	1:A:220:PRO:CG	2.98	0.41
1:C:51:ASN:HA	1:G:53:VAL:HG22	2.02	0.41
1:D:190:LYS:HZ1	1:Y:190:LYS:NZ	2.18	0.41
1:D:190:LYS:NZ	1:p:190:LYS:HZ1	2.18	0.41
1:D:531:GLU:HG2	1:Y:236:ILE:CD1	2.45	0.41
1:E:51:ASN:HA	1:v:53:VAL:HG22	2.02	0.41
1:G:159:LEU:CD1	1:G:220:PRO:CB	2.98	0.41
1:M:96:PRO:HA	1:f:241:LEU:O	2.16	0.41
1:M:159:LEU:CD1	1:M:220:PRO:CG	2.98	0.41
1:N:159:LEU:CD1	1:N:220:PRO:CG	2.98	0.41
1:N:235:TYR:CE2	1:l:70:CYS:HB2	2.55	0.41
1:N:241:LEU:O	1:l:96:PRO:HA	2.17	0.41
1:Q:159:LEU:CD1	1:Q:220:PRO:CG	2.98	0.41
1:R:125:THR:HG21	1:y:549:MET:HG2	2.01	0.41
1:U:51:ASN:HA	1:V:53:VAL:HG22	2.02	0.41
1:V:73:GLN:NE2	1:j:239:ARG:HH21	1.93	0.41
1:V:96:PRO:HA	1:j:241:LEU:O	2.16	0.41
1:d:51:ASN:HA	1:p:53:VAL:HG22	2.02	0.41
1:e:307:VAL:HG12	1:e:309:GLY:H	1.86	0.41
1:p:159:LEU:CD1	1:p:220:PRO:CG	2.98	0.41
1:q:53:VAL:HG22	1:s:51:ASN:HA	2.02	0.41
1:s:204:THR:HG23	1:s:205:GLN:HE21	1.85	0.41
1:1:127:THR:CG2	1:u:552:ILE:CG1	2.64	0.41
1:1:190:LYS:NZ	1:y:190:LYS:HZ1	2.19	0.41
1:2:159:LEU:CD1	1:2:220:PRO:CG	2.98	0.41
1:3:70:CYS:HB2	1:b:235:TYR:CE2	2.55	0.41
1:4:127:THR:CG2	1:O:552:ILE:CG1	2.64	0.41
1:5:48:LYS:CA	1:E:56:GLN:CD	2.88	0.41
1:5:551:THR:HG22	1:F:125:THR:HB	1.97	0.41
1:A:214:HIS:HD1	1:Y:555:PRO:C	2.29	0.41
1:A:235:TYR:CE2	1:H:70:CYS:HB2	2.55	0.41
1:F:53:VAL:HG12	1:y:49:ARG:HB2	1.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:241:LEU:O	1:R:96:PRO:HA	2.17	0.41
1:I:70:CYS:HB2	1:Q:235:TYR:CE2	2.55	0.41
1:J:70:CYS:HB2	1:c:235:TYR:CE2	2.55	0.41
1:L:307:VAL:HG12	1:L:309:GLY:H	1.86	0.41
1:N:70:CYS:HB2	1:i:235:TYR:CE2	2.55	0.41
1:Q:51:ASN:HA	1:u:53:VAL:HG22	2.02	0.41
1:T:190:LYS:NZ	1:U:190:LYS:HZ1	2.18	0.41
1:V:70:CYS:HB2	1:j:235:TYR:CE2	2.55	0.41
1:W:555:PRO:C	1:b:214:HIS:HD1	2.29	0.41
1:X:96:PRO:CD	1:w:241:LEU:O	2.69	0.41
1:Y:204:THR:HG23	1:Y:205:GLN:HE21	1.85	0.41
1:Y:307:VAL:HG12	1:Y:309:GLY:H	1.86	0.41
1:b:159:LEU:CD1	1:b:220:PRO:CG	2.98	0.41
1:d:235:TYR:CE2	1:q:70:CYS:HB2	2.55	0.41
1:g:53:VAL:HG22	1:o:51:ASN:HA	2.02	0.41
1:g:307:VAL:HG12	1:g:309:GLY:H	1.86	0.41
1:k:96:PRO:CD	1:v:241:LEU:O	2.69	0.41
1:o:204:THR:HG23	1:o:205:GLN:HE21	1.85	0.41
1:s:250:LEU:HD12	1:s:471:ILE:CG2	2.46	0.41
1:y:204:THR:HG23	1:y:205:GLN:HE21	1.85	0.41
1:0:235:TYR:CE2	1:c:70:CYS:HB2	2.55	0.41
1:1:236:ILE:HD12	1:y:529:THR:HG21	2.03	0.41
1:1:549:MET:HG2	1:u:125:THR:HG21	2.02	0.41
1:2:96:PRO:HA	1:6:241:LEU:O	2.17	0.41
1:2:307:VAL:HG12	1:2:309:GLY:H	1.86	0.41
1:3:235:TYR:CE2	1:P:70:CYS:HB2	2.55	0.41
1:6:159:LEU:CD1	1:6:220:PRO:CG	2.98	0.41
1:A:190:LYS:NZ	1:H:190:LYS:HZ1	2.19	0.41
1:B:561:TYR:HD1	1:q:157:LEU:CG	2.23	0.41
1:C:190:LYS:HZ1	1:x:190:LYS:NZ	2.18	0.41
1:D:241:LEU:O	1:p:96:PRO:HA	2.17	0.41
1:E:125:THR:HG21	1:k:549:MET:HG2	2.01	0.41
1:F:53:VAL:HG22	1:y:51:ASN:HA	2.02	0.41
1:G:235:TYR:CE2	1:a:70:CYS:HB2	2.55	0.41
1:G:241:LEU:O	1:a:96:PRO:CD	2.69	0.41
1:J:307:VAL:HG12	1:J:309:GLY:H	1.86	0.41
1:L:53:VAL:HG22	1:Z:51:ASN:HA	2.02	0.41
1:N:51:ASN:HA	1:P:53:VAL:HG22	2.02	0.41
1:N:307:VAL:HG12	1:N:309:GLY:H	1.86	0.41
1:S:96:PRO:CD	1:m:241:LEU:O	2.69	0.41
1:V:307:VAL:HG12	1:V:309:GLY:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:307:VAL:HG12	1:W:309:GLY:H	1.86	0.41
1:X:241:LEU:O	1:x:96:PRO:CD	2.69	0.41
1:Z:529:THR:HG21	1:r:236:ILE:HD12	2.03	0.41
1:b:221:LEU:CD1	1:b:538:PHE:CE2	2.98	0.41
1:d:236:ILE:CD1	1:q:531:GLU:HG2	2.46	0.41
1:g:529:THR:HG21	1:t:236:ILE:HD12	2.03	0.41
1:h:70:CYS:HB2	1:o:235:TYR:CE2	2.55	0.41
1:i:96:PRO:HA	1:y:241:LEU:O	2.17	0.41
1:i:159:LEU:CD1	1:i:220:PRO:CG	2.98	0.41
1:q:307:VAL:HG12	1:q:309:GLY:H	1.86	0.41
1:r:156:SER:CB	1:w:545:ASP:OD2	2.53	0.41
1:u:307:VAL:HG12	1:u:309:GLY:H	1.86	0.41
1:u:529:THR:HG21	1:z:236:ILE:HD12	2.03	0.41
1:v:307:VAL:HG12	1:v:309:GLY:H	1.86	0.41
1:0:53:VAL:HG22	1:6:51:ASN:HA	2.02	0.41
1:0:561:TYR:HD1	1:V:157:LEU:CG	2.23	0.41
1:1:307:VAL:HG12	1:1:309:GLY:H	1.86	0.41
1:1:529:THR:HG21	1:l:236:ILE:HD12	2.03	0.41
1:3:190:LYS:HZ1	1:b:190:LYS:NZ	2.19	0.41
1:3:236:ILE:HD12	1:P:529:THR:HG21	2.03	0.41
1:4:51:ASN:HA	1:H:53:VAL:HG22	2.02	0.41
1:4:236:ILE:HD12	1:z:529:THR:HG21	2.03	0.41
1:4:529:THR:HG21	1:h:236:ILE:HD12	2.03	0.41
1:5:214:HIS:HD1	1:F:555:PRO:C	2.29	0.41
1:5:241:LEU:O	1:d:96:PRO:CD	2.69	0.41
1:5:307:VAL:HG12	1:5:309:GLY:H	1.86	0.41
1:5:529:THR:HG21	1:n:236:ILE:HD12	2.03	0.41
1:6:204:THR:HG23	1:6:205:GLN:HE21	1.85	0.41
1:7:221:LEU:CD1	1:7:538:PHE:CE2	2.98	0.41
1:A:51:ASN:HA	1:k:53:VAL:HG22	2.02	0.41
1:A:221:LEU:CD1	1:A:538:PHE:CE2	2.98	0.41
1:B:53:VAL:HG22	1:i:51:ASN:HA	2.02	0.41
1:B:235:TYR:CE2	1:n:70:CYS:HB2	2.55	0.41
1:C:125:THR:HG21	1:a:549:MET:HG2	2.01	0.41
1:C:190:LYS:NZ	1:L:190:LYS:HZ1	2.18	0.41
1:C:236:ILE:HD12	1:L:529:THR:HG21	2.03	0.41
1:D:51:ASN:HA	1:j:53:VAL:HG22	2.02	0.41
1:D:241:LEU:O	1:p:96:PRO:CD	2.69	0.41
1:F:236:ILE:HD12	1:R:529:THR:HG21	2.03	0.41
1:G:204:THR:HG23	1:G:205:GLN:HE21	1.85	0.41
1:G:307:VAL:HG12	1:G:309:GLY:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:235:TYR:CE2	1:O:70:CYS:HB2	2.55	0.41
1:H:236:ILE:HD12	1:O:529:THR:HG21	2.03	0.41
1:H:241:LEU:O	1:O:96:PRO:CD	2.69	0.41
1:I:159:LEU:CD1	1:I:220:PRO:CG	2.98	0.41
1:I:207:LYS:C	1:P:55:TRP:HZ3	2.27	0.41
1:I:236:ILE:HD12	1:e:529:THR:HG21	2.03	0.41
1:I:529:THR:HG21	1:Q:236:ILE:HD12	2.03	0.41
1:J:241:LEU:O	1:j:96:PRO:CD	2.69	0.41
1:J:529:THR:HG21	1:c:236:ILE:HD12	2.03	0.41
1:K:236:ILE:HD12	1:r:529:THR:HG21	2.03	0.41
1:K:307:VAL:HG12	1:K:309:GLY:H	1.86	0.41
1:L:53:VAL:HG12	1:Z:49:ARG:HB2	1.98	0.41
1:L:236:ILE:HD12	1:w:529:THR:HG21	2.03	0.41
1:M:96:PRO:CD	1:f:241:LEU:O	2.69	0.41
1:M:204:THR:HG23	1:M:205:GLN:HE21	1.85	0.41
1:P:307:VAL:HG12	1:P:309:GLY:H	1.86	0.41
1:Q:125:THR:HG21	1:o:549:MET:HG2	2.02	0.41
1:Q:204:THR:HG23	1:Q:205:GLN:HE21	1.85	0.41
1:Q:549:MET:HG2	1:o:125:THR:HG21	2.01	0.41
1:R:159:LEU:CD1	1:R:220:PRO:CG	2.98	0.41
1:S:190:LYS:HZ1	1:m:190:LYS:NZ	2.19	0.41
1:U:250:LEU:HD12	1:U:471:ILE:CG2	2.45	0.41
1:U:307:VAL:HG12	1:U:309:GLY:H	1.86	0.41
1:V:96:PRO:CD	1:j:241:LEU:O	2.69	0.41
1:W:53:VAL:HG22	1:q:51:ASN:HA	2.02	0.41
1:W:204:THR:HG23	1:W:205:GLN:HE21	1.85	0.41
1:X:190:LYS:NZ	1:x:190:LYS:HZ1	2.19	0.41
1:Z:159:LEU:CD1	1:Z:220:PRO:CG	2.98	0.41
1:d:53:VAL:HG22	1:f:51:ASN:HA	2.02	0.41
1:d:241:LEU:O	1:q:96:PRO:HA	2.17	0.41
1:d:250:LEU:HD12	1:d:471:ILE:CG2	2.46	0.41
1:e:236:ILE:HD12	1:t:529:THR:HG21	2.03	0.41
1:f:156:SER:CB	1:p:545:ASP:OD2	2.53	0.41
1:g:96:PRO:CD	1:t:241:LEU:O	2.69	0.41
1:h:159:LEU:CD1	1:h:220:PRO:CG	2.98	0.41
1:h:529:THR:HG21	1:o:236:ILE:HD12	2.03	0.41
1:i:204:THR:HG23	1:i:205:GLN:HE21	1.85	0.41
1:k:70:CYS:HB2	1:v:235:TYR:CE2	2.55	0.41
1:o:221:LEU:HD11	1:o:538:PHE:HE2	1.83	0.41
1:p:204:THR:HG23	1:p:205:GLN:HE21	1.85	0.41
1:q:250:LEU:HD12	1:q:471:ILE:CG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:307:VAL:HG12	1:r:309:GLY:H	1.86	0.41
1:t:307:VAL:HG12	1:t:309:GLY:H	1.86	0.41
1:u:96:PRO:CD	1:z:241:LEU:O	2.69	0.41
1:v:204:THR:HG23	1:v:205:GLN:HE21	1.85	0.41
1:w:159:LEU:CD1	1:w:220:PRO:CG	2.98	0.41
1:y:159:LEU:CD1	1:y:220:PRO:CG	2.98	0.41
1:z:307:VAL:HG12	1:z:309:GLY:H	1.86	0.41
1:0:51:ASN:HA	1:T:53:VAL:HG22	2.02	0.41
1:1:190:LYS:HZ1	1:l:190:LYS:NZ	2.19	0.41
1:2:51:ASN:HA	1:O:53:VAL:HG22	2.02	0.41
1:2:250:LEU:HD12	1:2:471:ILE:CG2	2.46	0.41
1:3:53:VAL:HG22	1:e:51:ASN:HA	2.02	0.41
1:3:241:LEU:O	1:P:96:PRO:CD	2.69	0.41
1:3:555:PRO:C	1:x:214:HIS:HD1	2.29	0.41
1:4:159:LEU:CD1	1:4:220:PRO:CG	2.98	0.41
1:4:190:LYS:NZ	1:z:190:LYS:HZ1	2.18	0.41
1:7:53:VAL:HG22	1:B:51:ASN:HA	2.02	0.41
1:7:529:THR:HG21	1:P:236:ILE:HD12	2.03	0.41
1:C:159:LEU:CD1	1:C:220:PRO:CG	2.98	0.41
1:C:241:LEU:O	1:L:96:PRO:CD	2.69	0.41
1:D:236:ILE:HD12	1:p:529:THR:HG21	2.03	0.41
1:E:159:LEU:CD1	1:E:220:PRO:CG	2.98	0.41
1:E:236:ILE:HD12	1:F:529:THR:HG21	2.03	0.41
1:E:241:LEU:O	1:F:96:PRO:CD	2.69	0.41
1:F:190:LYS:NZ	1:R:190:LYS:HZ1	2.19	0.41
1:H:555:PRO:C	1:S:214:HIS:HD1	2.29	0.41
1:J:241:LEU:O	1:j:96:PRO:HA	2.17	0.41
1:L:159:LEU:CD1	1:L:220:PRO:CG	2.98	0.41
1:M:156:SER:CB	1:j:545:ASP:OD2	2.53	0.41
1:O:236:ILE:HD12	1:T:529:THR:HG21	2.03	0.41
1:O:307:VAL:HG12	1:O:309:GLY:H	1.86	0.41
1:S:307:VAL:HG12	1:S:309:GLY:H	1.86	0.41
1:V:250:LEU:HD12	1:V:471:ILE:CG2	2.46	0.41
1:a:53:VAL:HG22	1:b:51:ASN:HA	2.02	0.41
1:a:204:THR:HG23	1:a:205:GLN:HE21	1.85	0.41
1:d:241:LEU:O	1:q:96:PRO:CD	2.69	0.41
1:g:125:THR:HG21	1:r:549:MET:HG2	2.02	0.41
1:l:307:VAL:HG12	1:l:309:GLY:H	1.86	0.41
1:n:307:VAL:HG12	1:n:309:GLY:H	1.86	0.41
1:t:51:ASN:HA	1:w:53:VAL:HG22	2.02	0.41
1:4:190:LYS:NZ	1:z:190:LYS:NZ	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:96:PRO:CD	1:n:241:LEU:O	2.69	0.40
1:6:307:VAL:HG12	1:6:309:GLY:H	1.86	0.40
1:7:159:LEU:CD1	1:7:220:PRO:CG	2.98	0.40
1:7:190:LYS:NZ	1:s:190:LYS:HZ1	2.19	0.40
1:A:53:VAL:HG22	1:S:51:ASN:HA	2.02	0.40
1:A:70:CYS:HB2	1:U:235:TYR:CE2	2.55	0.40
1:C:190:LYS:NZ	1:x:190:LYS:NZ	2.70	0.40
1:D:156:SER:CB	1:M:545:ASP:OD2	2.53	0.40
1:E:190:LYS:NZ	1:S:190:LYS:NZ	2.70	0.40
1:E:549:MET:HG2	1:k:125:THR:HG21	2.01	0.40
1:F:159:LEU:CD1	1:F:220:PRO:CG	2.98	0.40
1:F:204:THR:HG23	1:F:205:GLN:HE21	1.85	0.40
1:G:96:PRO:CD	1:M:241:LEU:O	2.69	0.40
1:I:190:LYS:NZ	1:Q:190:LYS:NZ	2.70	0.40
1:J:96:PRO:CD	1:c:241:LEU:O	2.69	0.40
1:J:214:HIS:HD1	1:L:555:PRO:C	2.29	0.40
1:K:159:LEU:CD1	1:K:220:PRO:CG	2.98	0.40
1:L:190:LYS:NZ	1:w:190:LYS:HZ1	2.19	0.40
1:L:241:LEU:O	1:w:96:PRO:HA	2.17	0.40
1:N:96:PRO:HA	1:i:241:LEU:O	2.17	0.40
1:P:204:THR:HG23	1:P:205:GLN:HE21	1.85	0.40
1:R:53:VAL:HG22	1:z:51:ASN:HA	2.02	0.40
1:V:51:ASN:HA	1:Y:53:VAL:HG22	2.02	0.40
1:Z:307:VAL:HG12	1:Z:309:GLY:H	1.86	0.40
1:b:70:CYS:HB2	1:s:235:TYR:CE2	2.55	0.40
1:c:307:VAL:HG12	1:c:309:GLY:H	1.86	0.40
1:d:239:ARG:HH21	1:q:73:GLN:NE2	1.93	0.40
1:e:159:LEU:CD1	1:e:220:PRO:CG	2.98	0.40
1:e:190:LYS:NZ	1:t:190:LYS:NZ	2.70	0.40
1:h:190:LYS:NZ	1:o:190:LYS:NZ	2.70	0.40
1:i:96:PRO:CD	1:y:241:LEU:O	2.69	0.40
1:o:159:LEU:CD1	1:o:220:PRO:HG3	2.46	0.40
1:p:241:LEU:O	1:v:96:PRO:CD	2.69	0.40
1:p:307:VAL:HG12	1:p:309:GLY:H	1.86	0.40
1:q:159:LEU:CD1	1:q:220:PRO:CG	2.98	0.40
1:s:307:VAL:HG12	1:s:309:GLY:H	1.86	0.40
1:x:204:THR:HG23	1:x:205:GLN:HE21	1.85	0.40
1:x:307:VAL:HG12	1:x:309:GLY:H	1.86	0.40
1:0:389:LEU:HD11	1:0:470:PHE:CE1	2.57	0.40
1:1:96:PRO:CD	1:l:241:LEU:O	2.69	0.40
1:3:221:LEU:CD1	1:3:538:PHE:CE2	2.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:190:LYS:NZ	1:n:190:LYS:NZ	2.70	0.40
1:6:96:PRO:CD	1:Z:241:LEU:O	2.69	0.40
1:A:307:VAL:HG12	1:A:309:GLY:H	1.86	0.40
1:C:219:ILE:HD13	1:L:561:TYR:CZ	2.57	0.40
1:I:219:ILE:HD13	1:e:561:TYR:CZ	2.57	0.40
1:K:190:LYS:NZ	1:r:190:LYS:NZ	2.70	0.40
1:K:241:LEU:O	1:r:96:PRO:CD	2.69	0.40
1:K:555:PRO:C	1:h:214:HIS:HD1	2.29	0.40
1:M:307:VAL:HG12	1:M:309:GLY:H	1.86	0.40
1:M:529:THR:HG21	1:f:236:ILE:HD12	2.03	0.40
1:N:250:LEU:HD12	1:N:471:ILE:CG2	2.46	0.40
1:O:204:THR:HG23	1:O:205:GLN:HE21	1.85	0.40
1:S:70:CYS:HB2	1:m:235:TYR:CE2	2.55	0.40
1:S:204:THR:HG23	1:S:205:GLN:HE21	1.85	0.40
1:S:529:THR:HG21	1:m:236:ILE:HD12	2.03	0.40
1:T:159:LEU:CD1	1:T:220:PRO:CG	2.98	0.40
1:T:221:LEU:CD1	1:T:538:PHE:CE2	2.98	0.40
1:V:159:LEU:CD1	1:V:220:PRO:CG	2.98	0.40
1:W:529:THR:HG21	1:a:236:ILE:HD12	2.03	0.40
1:W:551:THR:CG2	1:b:125:THR:CG2	2.83	0.40
1:X:159:LEU:CD1	1:X:220:PRO:CG	2.98	0.40
1:X:235:TYR:CE2	1:x:70:CYS:HB2	2.55	0.40
1:X:236:ILE:HD12	1:x:529:THR:HG21	2.03	0.40
1:Y:529:THR:HG21	1:k:236:ILE:HD12	2.03	0.40
1:b:190:LYS:NZ	1:s:190:LYS:NZ	2.70	0.40
1:b:307:VAL:HG12	1:b:309:GLY:H	1.86	0.40
1:i:307:VAL:HG12	1:i:309:GLY:H	1.86	0.40
1:j:250:LEU:HD12	1:j:471:ILE:CG2	2.46	0.40
1:k:204:THR:HG23	1:k:205:GLN:HE21	1.85	0.40
1:l:159:LEU:CD1	1:l:220:PRO:CG	2.98	0.40
1:o:73:GLN:NE2	1:u:239:ARG:HH21	1.93	0.40
1:o:529:THR:HG21	1:u:236:ILE:HD12	2.03	0.40
1:q:204:THR:HG23	1:q:205:GLN:HE21	1.85	0.40
1:y:307:VAL:HG12	1:y:309:GLY:H	1.86	0.40
1:0:96:PRO:HA	1:V:241:LEU:O	2.17	0.40
1:1:190:LYS:NZ	1:l:190:LYS:NZ	2.70	0.40
1:2:241:LEU:O	1:K:96:PRO:CD	2.69	0.40
1:4:389:LEU:HD11	1:4:470:PHE:CE1	2.57	0.40
1:4:561:TYR:CZ	1:h:219:ILE:HD13	2.57	0.40
1:5:190:LYS:HZ1	1:n:190:LYS:NZ	2.19	0.40
1:5:219:ILE:HD13	1:d:561:TYR:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:204:THR:HG23	1:7:205:GLN:HE21	1.85	0.40
1:A:190:LYS:NZ	1:U:190:LYS:NZ	2.70	0.40
1:B:389:LEU:HD11	1:B:470:PHE:CE1	2.57	0.40
1:B:531:GLU:HG2	1:q:236:ILE:CD1	2.46	0.40
1:C:549:MET:HG2	1:a:125:THR:HG21	2.01	0.40
1:D:235:TYR:CE2	1:p:70:CYS:HB2	2.55	0.40
1:D:561:TYR:CZ	1:Y:219:ILE:HD13	2.57	0.40
1:E:219:ILE:HD13	1:F:561:TYR:CZ	2.57	0.40
1:E:389:LEU:HD11	1:E:470:PHE:CE1	2.57	0.40
1:F:241:LEU:O	1:R:96:PRO:CD	2.69	0.40
1:I:96:PRO:CD	1:Q:241:LEU:O	2.69	0.40
1:I:214:HIS:HD1	1:l:555:PRO:C	2.29	0.40
1:J:190:LYS:NZ	1:c:190:LYS:NZ	2.70	0.40
1:J:219:ILE:HD13	1:j:561:TYR:CZ	2.57	0.40
1:J:389:LEU:HD11	1:J:470:PHE:CE1	2.57	0.40
1:L:204:THR:HG23	1:L:205:GLN:HE21	1.85	0.40
1:N:236:ILE:HD12	1:l:529:THR:HG21	2.03	0.40
1:N:529:THR:HG21	1:i:236:ILE:HD12	2.03	0.40
1:N:545:ASP:OD2	1:P:156:SER:CB	2.53	0.40
1:P:552:ILE:HG12	1:e:127:THR:HA	1.87	0.40
1:P:552:ILE:CG1	1:e:127:THR:CG2	2.64	0.40
1:Q:221:LEU:HD11	1:Q:538:PHE:HE2	1.83	0.40
1:Q:529:THR:HG21	1:g:236:ILE:HD12	2.03	0.40
1:R:236:ILE:HD12	1:m:529:THR:HG21	2.03	0.40
1:T:204:THR:HG23	1:T:205:GLN:HE21	1.85	0.40
1:T:307:VAL:HG12	1:T:309:GLY:H	1.86	0.40
1:V:389:LEU:HD11	1:V:470:PHE:CE1	2.57	0.40
1:W:219:ILE:HD13	1:f:561:TYR:CZ	2.57	0.40
1:X:204:THR:HG23	1:X:205:GLN:HE21	1.85	0.40
1:Y:96:PRO:CD	1:k:241:LEU:O	2.69	0.40
1:b:53:VAL:HG22	1:x:51:ASN:HA	2.02	0.40
1:c:159:LEU:CD1	1:c:220:PRO:CG	2.98	0.40
1:e:190:LYS:NZ	1:t:190:LYS:HZ1	2.19	0.40
1:e:389:LEU:HD11	1:e:470:PHE:CE1	2.57	0.40
1:i:561:TYR:CZ	1:y:219:ILE:HD13	2.57	0.40
1:j:307:VAL:HG12	1:j:309:GLY:H	1.86	0.40
1:m:159:LEU:CD1	1:m:220:PRO:CG	2.98	0.40
1:m:555:PRO:C	1:z:214:HIS:HD1	2.29	0.40
1:n:159:LEU:CD1	1:n:220:PRO:CG	2.98	0.40
1:q:389:LEU:HD11	1:q:470:PHE:CE1	2.57	0.40
1:r:51:ASN:HA	1:t:53:VAL:HG22	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:389:LEU:HD11	1:v:470:PHE:CE1	2.57	0.40
1:0:204:THR:HG23	1:0:205:GLN:HE21	1.85	0.40
1:0:549:MET:HG2	1:U:125:THR:HG21	2.01	0.40
1:1:51:ASN:HA	1:z:53:VAL:HG22	2.02	0.40
1:1:241:LEU:O	1:y:96:PRO:CD	2.69	0.40
1:2:96:PRO:CD	1:6:241:LEU:O	2.69	0.40
1:2:236:ILE:HD12	1:K:529:THR:HG21	2.03	0.40
1:2:529:THR:HG21	1:6:236:ILE:HD12	2.03	0.40
1:3:389:LEU:HD11	1:3:470:PHE:CE1	2.57	0.40
1:3:561:TYR:CZ	1:b:219:ILE:HD13	2.57	0.40
1:4:190:LYS:HZ1	1:h:190:LYS:NZ	2.18	0.40
1:4:190:LYS:NZ	1:h:190:LYS:NZ	2.70	0.40
1:5:389:LEU:HD11	1:5:470:PHE:CE1	2.57	0.40
1:6:561:TYR:CZ	1:Z:219:ILE:HD13	2.57	0.40
1:7:307:VAL:HG12	1:7:309:GLY:H	1.86	0.40
1:7:552:ILE:CG1	1:N:127:THR:CG2	2.63	0.40
1:B:96:PRO:HA	1:q:241:LEU:O	2.17	0.40
1:C:389:LEU:HD11	1:C:470:PHE:CE1	2.57	0.40
1:F:219:ILE:HD13	1:R:561:TYR:CZ	2.57	0.40
1:G:389:LEU:HD11	1:G:470:PHE:CE1	2.57	0.40
1:G:561:TYR:CZ	1:M:219:ILE:HD13	2.57	0.40
1:H:221:LEU:CD1	1:H:538:PHE:CE2	2.98	0.40
1:H:389:LEU:HD11	1:H:470:PHE:CE1	2.57	0.40
1:I:190:LYS:NZ	1:e:190:LYS:NZ	2.70	0.40
1:K:219:ILE:HD13	1:r:561:TYR:CZ	2.57	0.40
1:L:219:ILE:HD13	1:w:561:TYR:CZ	2.57	0.40
1:L:241:LEU:O	1:w:96:PRO:CD	2.69	0.40
1:M:70:CYS:HB2	1:f:235:TYR:CE2	2.55	0.40
1:M:214:HIS:HD1	1:p:555:PRO:C	2.29	0.40
1:N:241:LEU:O	1:l:96:PRO:CD	2.69	0.40
1:O:159:LEU:CD1	1:O:220:PRO:HG3	2.46	0.40
1:O:250:LEU:HD12	1:O:471:ILE:CG2	2.46	0.40
1:P:159:LEU:CD1	1:P:220:PRO:HG3	2.46	0.40
1:P:389:LEU:HD11	1:P:470:PHE:CE1	2.57	0.40
1:Q:73:GLN:NE2	1:g:239:ARG:HH21	1.93	0.40
1:Q:190:LYS:NZ	1:g:190:LYS:NZ	2.70	0.40
1:S:53:VAL:HG22	1:k:51:ASN:HA	2.02	0.40
1:V:204:THR:HG23	1:V:205:GLN:HE21	1.85	0.40
1:V:529:THR:HG21	1:j:236:ILE:HD12	2.03	0.40
1:W:96:PRO:CD	1:a:241:LEU:O	2.69	0.40
1:W:241:LEU:O	1:f:96:PRO:CD	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:529:THR:HG21	1:w:236:ILE:HD12	2.03	0.40
1:X:555:PRO:C	1:t:214:HIS:HD1	2.29	0.40
1:Y:561:TYR:CZ	1:k:219:ILE:HD13	2.57	0.40
1:Z:96:PRO:CD	1:r:241:LEU:O	2.69	0.40
1:a:156:SER:CB	1:b:545:ASP:OD2	2.53	0.40
1:a:307:VAL:HG12	1:a:309:GLY:H	1.86	0.40
1:b:389:LEU:HD11	1:b:470:PHE:CE1	2.57	0.40
1:c:389:LEU:HD11	1:c:470:PHE:CE1	2.57	0.40
1:d:545:ASP:OD2	1:p:156:SER:CB	2.53	0.40
1:g:389:LEU:HD11	1:g:470:PHE:CE1	2.57	0.40
1:h:96:PRO:CD	1:o:241:LEU:O	2.69	0.40
1:m:204:THR:HG23	1:m:205:GLN:HE21	1.85	0.40
1:o:190:LYS:NZ	1:u:190:LYS:NZ	2.70	0.40
1:p:219:ILE:HD13	1:v:561:TYR:CZ	2.57	0.40
1:r:389:LEU:HD11	1:r:470:PHE:CE1	2.57	0.40
1:w:250:LEU:HD12	1:w:471:ILE:CG2	2.46	0.40
1:0:52:ILE:O	1:6:51:ASN:CA	2.70	0.40
1:0:190:LYS:NZ	1:c:190:LYS:HZ1	2.19	0.40
1:1:221:LEU:HD11	1:1:538:PHE:HE2	1.83	0.40
1:1:389:LEU:HD11	1:1:470:PHE:CE1	2.57	0.40
1:1:561:TYR:CZ	1:l:219:ILE:HD13	2.57	0.40
1:2:190:LYS:NZ	1:6:190:LYS:NZ	2.70	0.40
1:A:219:ILE:HD13	1:H:561:TYR:CZ	2.57	0.40
1:A:389:LEU:HD11	1:A:470:PHE:CE1	2.57	0.40
1:A:545:ASP:OD2	1:k:156:SER:CB	2.53	0.40
1:A:561:TYR:CZ	1:U:219:ILE:HD13	2.57	0.40
1:B:52:ILE:O	1:i:51:ASN:CA	2.70	0.40
1:B:549:MET:HG2	1:s:125:THR:HG21	2.01	0.40
1:C:96:PRO:CD	1:x:241:LEU:O	2.69	0.40
1:D:96:PRO:CD	1:Y:241:LEU:O	2.69	0.40
1:E:235:TYR:CE2	1:F:70:CYS:HB2	2.55	0.40
1:G:219:ILE:HD13	1:a:561:TYR:CZ	2.57	0.40
1:J:190:LYS:HZ1	1:c:190:LYS:NZ	2.19	0.40
1:L:52:ILE:O	1:Z:51:ASN:CA	2.70	0.40
1:M:555:PRO:C	1:p:214:HIS:HD1	2.29	0.40
1:N:96:PRO:CD	1:i:241:LEU:O	2.69	0.40
1:N:190:LYS:NZ	1:i:190:LYS:NZ	2.70	0.40
1:N:561:TYR:CZ	1:i:219:ILE:HD13	2.57	0.40
1:O:389:LEU:HD11	1:O:470:PHE:CE1	2.57	0.40
1:Q:96:PRO:CD	1:g:241:LEU:O	2.69	0.40
1:S:389:LEU:HD11	1:S:470:PHE:CE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:561:TYR:CZ	1:a:219:ILE:HD13	2.57	0.40
1:d:236:ILE:HD12	1:q:529:THR:HG21	2.03	0.40
1:d:307:VAL:HG12	1:d:309:GLY:H	1.86	0.40
1:i:190:LYS:NZ	1:y:190:LYS:NZ	2.70	0.40
1:k:307:VAL:HG12	1:k:309:GLY:H	1.86	0.40
1:l:159:LEU:CD1	1:l:220:PRO:HG3	2.46	0.40
1:n:204:THR:HG23	1:n:205:GLN:HE21	1.85	0.40
1:n:389:LEU:HD11	1:n:470:PHE:CE1	2.57	0.40
1:r:221:LEU:HD11	1:r:538:PHE:HE2	1.83	0.40
1:s:389:LEU:HD11	1:s:470:PHE:CE1	2.57	0.40
1:u:389:LEU:HD11	1:u:470:PHE:CE1	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	0	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	1	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	2	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	3	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	4	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	5	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	6	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	7	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	A	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	B	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	C	513/609 (84%)	508 (99%)	5 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	E	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	F	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	G	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	H	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	I	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	J	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	K	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	L	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	M	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	N	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	O	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	P	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	Q	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	R	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	S	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	T	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	U	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	V	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	W	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	X	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	Y	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	Z	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	a	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	b	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	c	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	d	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	e	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	f	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	g	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	h	513/609 (84%)	508 (99%)	5 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	i	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	j	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	k	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	l	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	m	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	n	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	o	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	p	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	q	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	r	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	s	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	t	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	u	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	v	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	w	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	x	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	y	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
1	z	513/609 (84%)	508 (99%)	5 (1%)	0	100	100
All	All	30780/36540 (84%)	30480 (99%)	300 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	476/568 (84%)	476 (100%)	0	100	100
1	1	476/568 (84%)	476 (100%)	0	100	100
1	2	476/568 (84%)	476 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3	476/568 (84%)	476 (100%)	0	100	100
1	4	476/568 (84%)	476 (100%)	0	100	100
1	5	476/568 (84%)	476 (100%)	0	100	100
1	6	476/568 (84%)	476 (100%)	0	100	100
1	7	476/568 (84%)	476 (100%)	0	100	100
1	A	476/568 (84%)	476 (100%)	0	100	100
1	B	476/568 (84%)	476 (100%)	0	100	100
1	C	476/568 (84%)	476 (100%)	0	100	100
1	D	476/568 (84%)	476 (100%)	0	100	100
1	E	476/568 (84%)	476 (100%)	0	100	100
1	F	476/568 (84%)	476 (100%)	0	100	100
1	G	476/568 (84%)	476 (100%)	0	100	100
1	H	476/568 (84%)	476 (100%)	0	100	100
1	I	476/568 (84%)	476 (100%)	0	100	100
1	J	476/568 (84%)	476 (100%)	0	100	100
1	K	476/568 (84%)	476 (100%)	0	100	100
1	L	476/568 (84%)	476 (100%)	0	100	100
1	M	476/568 (84%)	476 (100%)	0	100	100
1	N	476/568 (84%)	476 (100%)	0	100	100
1	O	476/568 (84%)	476 (100%)	0	100	100
1	P	476/568 (84%)	476 (100%)	0	100	100
1	Q	476/568 (84%)	476 (100%)	0	100	100
1	R	476/568 (84%)	476 (100%)	0	100	100
1	S	476/568 (84%)	476 (100%)	0	100	100
1	T	476/568 (84%)	476 (100%)	0	100	100
1	U	476/568 (84%)	476 (100%)	0	100	100
1	V	476/568 (84%)	476 (100%)	0	100	100
1	W	476/568 (84%)	476 (100%)	0	100	100
1	X	476/568 (84%)	476 (100%)	0	100	100
1	Y	476/568 (84%)	476 (100%)	0	100	100
1	Z	476/568 (84%)	476 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	476/568 (84%)	476 (100%)	0	100	100
1	b	476/568 (84%)	476 (100%)	0	100	100
1	c	476/568 (84%)	476 (100%)	0	100	100
1	d	476/568 (84%)	476 (100%)	0	100	100
1	e	476/568 (84%)	476 (100%)	0	100	100
1	f	476/568 (84%)	476 (100%)	0	100	100
1	g	476/568 (84%)	476 (100%)	0	100	100
1	h	476/568 (84%)	476 (100%)	0	100	100
1	i	476/568 (84%)	476 (100%)	0	100	100
1	j	476/568 (84%)	476 (100%)	0	100	100
1	k	476/568 (84%)	476 (100%)	0	100	100
1	l	476/568 (84%)	476 (100%)	0	100	100
1	m	476/568 (84%)	476 (100%)	0	100	100
1	n	476/568 (84%)	476 (100%)	0	100	100
1	o	476/568 (84%)	476 (100%)	0	100	100
1	p	476/568 (84%)	476 (100%)	0	100	100
1	q	476/568 (84%)	476 (100%)	0	100	100
1	r	476/568 (84%)	476 (100%)	0	100	100
1	s	476/568 (84%)	476 (100%)	0	100	100
1	t	476/568 (84%)	476 (100%)	0	100	100
1	u	476/568 (84%)	476 (100%)	0	100	100
1	v	476/568 (84%)	476 (100%)	0	100	100
1	w	476/568 (84%)	476 (100%)	0	100	100
1	x	476/568 (84%)	476 (100%)	0	100	100
1	y	476/568 (84%)	476 (100%)	0	100	100
1	z	476/568 (84%)	476 (100%)	0	100	100
All	All	28560/34080 (84%)	28560 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (644) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	73	GLN
1	0	113	GLN
1	0	143	GLN
1	0	167	ASN
1	0	213	GLN
1	0	401	ASN
1	0	413	HIS
1	0	419	GLN
1	0	420	HIS
1	0	558	GLN
1	1	73	GLN
1	1	113	GLN
1	1	143	GLN
1	1	167	ASN
1	1	213	GLN
1	1	401	ASN
1	1	413	HIS
1	1	419	GLN
1	1	420	HIS
1	1	558	GLN
1	2	73	GLN
1	2	113	GLN
1	2	143	GLN
1	2	167	ASN
1	2	213	GLN
1	2	401	ASN
1	2	413	HIS
1	2	419	GLN
1	2	420	HIS
1	2	558	GLN
1	3	73	GLN
1	3	113	GLN
1	3	143	GLN
1	3	167	ASN
1	3	213	GLN
1	3	401	ASN
1	3	413	HIS
1	3	419	GLN
1	3	420	HIS
1	3	554	ASN
1	3	558	GLN
1	4	73	GLN
1	4	113	GLN

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Mol	Chain	Res	Type
1	4	143	GLN
1	4	167	ASN
1	4	213	GLN
1	4	401	ASN
1	4	413	HIS
1	4	419	GLN
1	4	420	HIS
1	4	554	ASN
1	4	558	GLN
1	5	73	GLN
1	5	113	GLN
1	5	143	GLN
1	5	167	ASN
1	5	187	GLN
1	5	213	GLN
1	5	401	ASN
1	5	413	HIS
1	5	419	GLN
1	5	420	HIS
1	5	558	GLN
1	6	73	GLN
1	6	113	GLN
1	6	143	GLN
1	6	167	ASN
1	6	213	GLN
1	6	290	ASN
1	6	401	ASN
1	6	413	HIS
1	6	419	GLN
1	6	420	HIS
1	6	554	ASN
1	6	558	GLN
1	7	73	GLN
1	7	113	GLN
1	7	143	GLN
1	7	167	ASN
1	7	187	GLN
1	7	213	GLN
1	7	401	ASN
1	7	413	HIS
1	7	419	GLN
1	7	420	HIS

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Mol	Chain	Res	Type
1	7	558	GLN
1	A	73	GLN
1	A	113	GLN
1	A	143	GLN
1	A	167	ASN
1	A	213	GLN
1	A	290	ASN
1	A	308	GLN
1	A	401	ASN
1	A	413	HIS
1	A	419	GLN
1	A	420	HIS
1	A	558	GLN
1	B	73	GLN
1	B	113	GLN
1	B	143	GLN
1	B	167	ASN
1	B	213	GLN
1	B	401	ASN
1	B	413	HIS
1	B	419	GLN
1	B	420	HIS
1	B	558	GLN
1	C	73	GLN
1	C	113	GLN
1	C	143	GLN
1	C	167	ASN
1	C	213	GLN
1	C	290	ASN
1	C	401	ASN
1	C	413	HIS
1	C	419	GLN
1	C	420	HIS
1	C	558	GLN
1	D	73	GLN
1	D	113	GLN
1	D	143	GLN
1	D	167	ASN
1	D	213	GLN
1	D	401	ASN
1	D	413	HIS
1	D	420	HIS

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Mol	Chain	Res	Type
1	D	558	GLN
1	E	73	GLN
1	E	113	GLN
1	E	143	GLN
1	E	167	ASN
1	E	213	GLN
1	E	290	ASN
1	E	401	ASN
1	E	413	HIS
1	E	419	GLN
1	E	420	HIS
1	E	558	GLN
1	F	73	GLN
1	F	113	GLN
1	F	143	GLN
1	F	167	ASN
1	F	213	GLN
1	F	401	ASN
1	F	413	HIS
1	F	419	GLN
1	F	420	HIS
1	F	554	ASN
1	F	558	GLN
1	G	73	GLN
1	G	113	GLN
1	G	143	GLN
1	G	167	ASN
1	G	213	GLN
1	G	290	ASN
1	G	401	ASN
1	G	413	HIS
1	G	420	HIS
1	G	554	ASN
1	G	558	GLN
1	H	73	GLN
1	H	113	GLN
1	H	143	GLN
1	H	167	ASN
1	H	213	GLN
1	H	401	ASN
1	H	413	HIS
1	H	419	GLN

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Mol	Chain	Res	Type
1	H	420	HIS
1	H	554	ASN
1	H	558	GLN
1	I	73	GLN
1	I	113	GLN
1	I	143	GLN
1	I	167	ASN
1	I	213	GLN
1	I	401	ASN
1	I	413	HIS
1	I	420	HIS
1	I	558	GLN
1	J	73	GLN
1	J	113	GLN
1	J	143	GLN
1	J	167	ASN
1	J	213	GLN
1	J	401	ASN
1	J	413	HIS
1	J	419	GLN
1	J	420	HIS
1	J	554	ASN
1	J	558	GLN
1	K	73	GLN
1	K	113	GLN
1	K	143	GLN
1	K	167	ASN
1	K	213	GLN
1	K	290	ASN
1	K	401	ASN
1	K	413	HIS
1	K	419	GLN
1	K	420	HIS
1	K	554	ASN
1	K	558	GLN
1	L	73	GLN
1	L	113	GLN
1	L	143	GLN
1	L	167	ASN
1	L	213	GLN
1	L	401	ASN
1	L	413	HIS

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Mol	Chain	Res	Type
1	L	419	GLN
1	L	420	HIS
1	L	554	ASN
1	L	558	GLN
1	M	73	GLN
1	M	113	GLN
1	M	143	GLN
1	M	167	ASN
1	M	213	GLN
1	M	270	GLN
1	M	290	ASN
1	M	401	ASN
1	M	413	HIS
1	M	419	GLN
1	M	420	HIS
1	M	554	ASN
1	M	558	GLN
1	N	73	GLN
1	N	113	GLN
1	N	143	GLN
1	N	167	ASN
1	N	213	GLN
1	N	401	ASN
1	N	413	HIS
1	N	419	GLN
1	N	420	HIS
1	N	558	GLN
1	O	73	GLN
1	O	113	GLN
1	O	143	GLN
1	O	167	ASN
1	O	213	GLN
1	O	290	ASN
1	O	401	ASN
1	O	413	HIS
1	O	420	HIS
1	O	554	ASN
1	O	558	GLN
1	P	73	GLN
1	P	113	GLN
1	P	143	GLN
1	P	167	ASN

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Mol	Chain	Res	Type
1	P	213	GLN
1	P	401	ASN
1	P	413	HIS
1	P	420	HIS
1	P	554	ASN
1	P	558	GLN
1	Q	73	GLN
1	Q	113	GLN
1	Q	143	GLN
1	Q	167	ASN
1	Q	213	GLN
1	Q	290	ASN
1	Q	401	ASN
1	Q	413	HIS
1	Q	419	GLN
1	Q	420	HIS
1	Q	554	ASN
1	Q	558	GLN
1	R	73	GLN
1	R	113	GLN
1	R	143	GLN
1	R	167	ASN
1	R	213	GLN
1	R	401	ASN
1	R	413	HIS
1	R	420	HIS
1	R	558	GLN
1	S	73	GLN
1	S	113	GLN
1	S	143	GLN
1	S	167	ASN
1	S	213	GLN
1	S	270	GLN
1	S	401	ASN
1	S	413	HIS
1	S	420	HIS
1	S	558	GLN
1	T	73	GLN
1	T	113	GLN
1	T	143	GLN
1	T	167	ASN
1	T	213	GLN

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Mol	Chain	Res	Type
1	T	401	ASN
1	T	413	HIS
1	T	419	GLN
1	T	558	GLN
1	U	73	GLN
1	U	113	GLN
1	U	143	GLN
1	U	167	ASN
1	U	187	GLN
1	U	213	GLN
1	U	401	ASN
1	U	413	HIS
1	U	420	HIS
1	U	554	ASN
1	U	558	GLN
1	V	73	GLN
1	V	113	GLN
1	V	143	GLN
1	V	167	ASN
1	V	213	GLN
1	V	401	ASN
1	V	413	HIS
1	V	419	GLN
1	V	420	HIS
1	V	554	ASN
1	V	558	GLN
1	W	73	GLN
1	W	113	GLN
1	W	143	GLN
1	W	167	ASN
1	W	213	GLN
1	W	290	ASN
1	W	401	ASN
1	W	413	HIS
1	W	419	GLN
1	W	420	HIS
1	W	558	GLN
1	X	73	GLN
1	X	113	GLN
1	X	143	GLN
1	X	167	ASN
1	X	213	GLN

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Mol	Chain	Res	Type
1	X	401	ASN
1	X	413	HIS
1	X	419	GLN
1	X	420	HIS
1	X	554	ASN
1	X	558	GLN
1	Y	73	GLN
1	Y	113	GLN
1	Y	143	GLN
1	Y	167	ASN
1	Y	213	GLN
1	Y	290	ASN
1	Y	401	ASN
1	Y	413	HIS
1	Y	419	GLN
1	Y	420	HIS
1	Y	558	GLN
1	Z	73	GLN
1	Z	113	GLN
1	Z	143	GLN
1	Z	167	ASN
1	Z	213	GLN
1	Z	270	GLN
1	Z	401	ASN
1	Z	413	HIS
1	Z	419	GLN
1	Z	420	HIS
1	Z	554	ASN
1	Z	558	GLN
1	a	73	GLN
1	a	113	GLN
1	a	143	GLN
1	a	167	ASN
1	a	213	GLN
1	a	218	ASN
1	a	290	ASN
1	a	401	ASN
1	a	413	HIS
1	a	420	HIS
1	a	554	ASN
1	a	558	GLN
1	b	73	GLN

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Mol	Chain	Res	Type
1	b	113	GLN
1	b	143	GLN
1	b	167	ASN
1	b	213	GLN
1	b	290	ASN
1	b	401	ASN
1	b	413	HIS
1	b	420	HIS
1	b	558	GLN
1	c	73	GLN
1	c	113	GLN
1	c	143	GLN
1	c	167	ASN
1	c	213	GLN
1	c	290	ASN
1	c	401	ASN
1	c	413	HIS
1	c	419	GLN
1	c	420	HIS
1	c	554	ASN
1	c	558	GLN
1	d	73	GLN
1	d	113	GLN
1	d	143	GLN
1	d	167	ASN
1	d	213	GLN
1	d	401	ASN
1	d	413	HIS
1	d	419	GLN
1	d	420	HIS
1	d	558	GLN
1	e	73	GLN
1	e	113	GLN
1	e	143	GLN
1	e	167	ASN
1	e	213	GLN
1	e	401	ASN
1	e	413	HIS
1	e	419	GLN
1	e	420	HIS
1	e	558	GLN
1	f	73	GLN

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Mol	Chain	Res	Type
1	f	113	GLN
1	f	143	GLN
1	f	167	ASN
1	f	213	GLN
1	f	401	ASN
1	f	413	HIS
1	f	420	HIS
1	f	558	GLN
1	g	73	GLN
1	g	113	GLN
1	g	143	GLN
1	g	167	ASN
1	g	213	GLN
1	g	290	ASN
1	g	401	ASN
1	g	413	HIS
1	g	420	HIS
1	g	558	GLN
1	h	73	GLN
1	h	113	GLN
1	h	143	GLN
1	h	167	ASN
1	h	213	GLN
1	h	401	ASN
1	h	413	HIS
1	h	420	HIS
1	h	558	GLN
1	i	73	GLN
1	i	113	GLN
1	i	143	GLN
1	i	167	ASN
1	i	213	GLN
1	i	290	ASN
1	i	401	ASN
1	i	413	HIS
1	i	419	GLN
1	i	420	HIS
1	i	558	GLN
1	j	73	GLN
1	j	113	GLN
1	j	143	GLN
1	j	167	ASN

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Mol	Chain	Res	Type
1	j	213	GLN
1	j	401	ASN
1	j	413	HIS
1	j	419	GLN
1	j	420	HIS
1	j	554	ASN
1	j	558	GLN
1	k	73	GLN
1	k	113	GLN
1	k	143	GLN
1	k	167	ASN
1	k	213	GLN
1	k	290	ASN
1	k	401	ASN
1	k	413	HIS
1	k	420	HIS
1	k	554	ASN
1	k	558	GLN
1	l	73	GLN
1	l	113	GLN
1	l	143	GLN
1	l	167	ASN
1	l	213	GLN
1	l	290	ASN
1	l	401	ASN
1	l	413	HIS
1	l	419	GLN
1	l	420	HIS
1	l	554	ASN
1	l	558	GLN
1	m	73	GLN
1	m	113	GLN
1	m	143	GLN
1	m	167	ASN
1	m	213	GLN
1	m	270	GLN
1	m	401	ASN
1	m	413	HIS
1	m	419	GLN
1	m	420	HIS
1	m	554	ASN
1	m	558	GLN

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Mol	Chain	Res	Type
1	n	73	GLN
1	n	113	GLN
1	n	143	GLN
1	n	167	ASN
1	n	213	GLN
1	n	290	ASN
1	n	401	ASN
1	n	413	HIS
1	n	419	GLN
1	n	420	HIS
1	n	554	ASN
1	n	558	GLN
1	o	73	GLN
1	o	113	GLN
1	o	143	GLN
1	o	167	ASN
1	o	213	GLN
1	o	290	ASN
1	o	413	HIS
1	o	419	GLN
1	o	420	HIS
1	o	554	ASN
1	o	558	GLN
1	p	73	GLN
1	p	113	GLN
1	p	143	GLN
1	p	167	ASN
1	p	213	GLN
1	p	290	ASN
1	p	401	ASN
1	p	413	HIS
1	p	419	GLN
1	p	420	HIS
1	p	554	ASN
1	p	558	GLN
1	q	73	GLN
1	q	113	GLN
1	q	143	GLN
1	q	167	ASN
1	q	213	GLN
1	q	401	ASN
1	q	413	HIS

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Mol	Chain	Res	Type
1	q	419	GLN
1	q	420	HIS
1	q	558	GLN
1	r	73	GLN
1	r	113	GLN
1	r	143	GLN
1	r	167	ASN
1	r	213	GLN
1	r	401	ASN
1	r	413	HIS
1	r	419	GLN
1	r	420	HIS
1	r	558	GLN
1	s	73	GLN
1	s	113	GLN
1	s	143	GLN
1	s	167	ASN
1	s	187	GLN
1	s	213	GLN
1	s	401	ASN
1	s	413	HIS
1	s	420	HIS
1	s	554	ASN
1	s	558	GLN
1	t	73	GLN
1	t	113	GLN
1	t	143	GLN
1	t	167	ASN
1	t	213	GLN
1	t	401	ASN
1	t	413	HIS
1	t	420	HIS
1	t	554	ASN
1	t	558	GLN
1	u	73	GLN
1	u	113	GLN
1	u	143	GLN
1	u	167	ASN
1	u	213	GLN
1	u	290	ASN
1	u	401	ASN
1	u	413	HIS

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Mol	Chain	Res	Type
1	u	420	HIS
1	u	558	GLN
1	v	73	GLN
1	v	113	GLN
1	v	143	GLN
1	v	167	ASN
1	v	213	GLN
1	v	290	ASN
1	v	401	ASN
1	v	413	HIS
1	v	420	HIS
1	v	554	ASN
1	v	558	GLN
1	w	73	GLN
1	w	113	GLN
1	w	143	GLN
1	w	167	ASN
1	w	213	GLN
1	w	401	ASN
1	w	413	HIS
1	w	420	HIS
1	w	558	GLN
1	x	73	GLN
1	x	113	GLN
1	x	143	GLN
1	x	167	ASN
1	x	213	GLN
1	x	401	ASN
1	x	413	HIS
1	x	419	GLN
1	x	420	HIS
1	x	558	GLN
1	y	73	GLN
1	y	113	GLN
1	y	143	GLN
1	y	167	ASN
1	y	213	GLN
1	y	270	GLN
1	y	401	ASN
1	y	413	HIS
1	y	419	GLN
1	y	420	HIS

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Mol	Chain	Res	Type
1	y	554	ASN
1	y	558	GLN
1	z	73	GLN
1	z	113	GLN
1	z	143	GLN
1	z	167	ASN
1	z	213	GLN
1	z	401	ASN
1	z	413	HIS
1	z	419	GLN
1	z	420	HIS
1	z	554	ASN
1	z	558	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

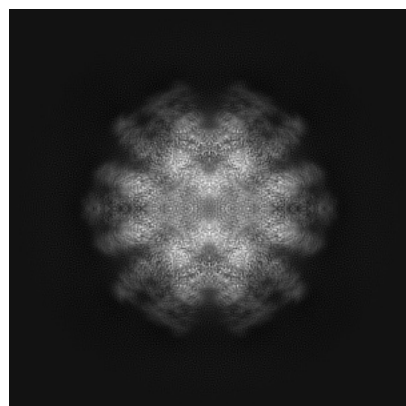
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-43009. These allow visual inspection of the internal detail of the map and identification of artifacts.

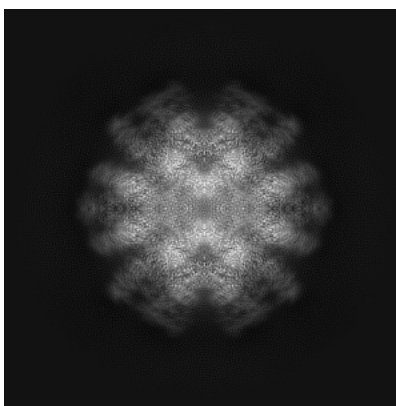
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

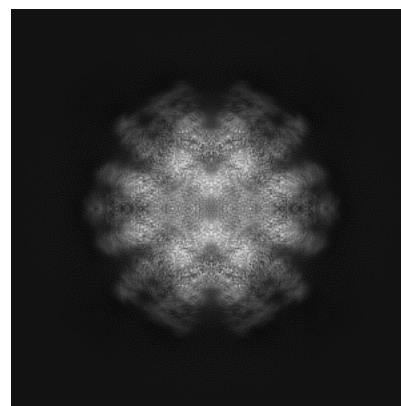
6.1.1 Primary map



X

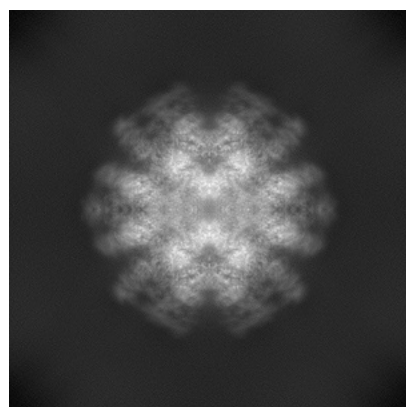


Y

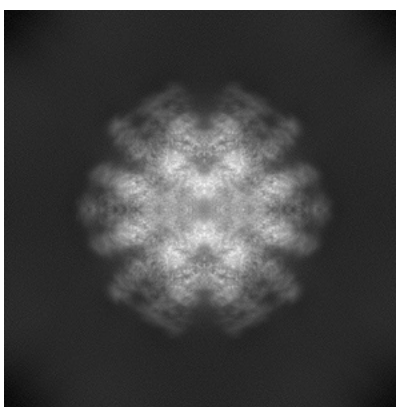


Z

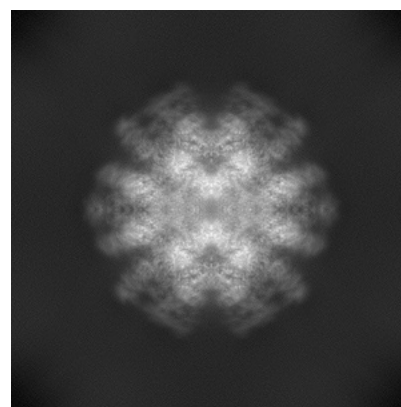
6.1.2 Raw map



X



Y

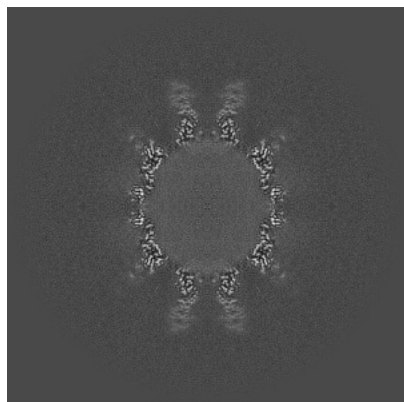


Z

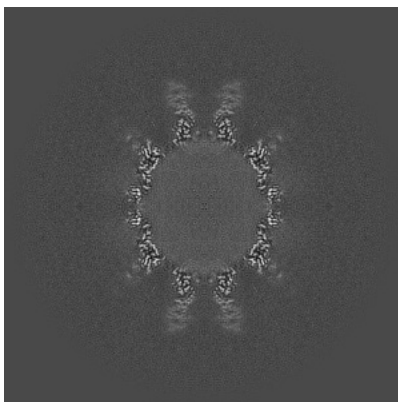
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

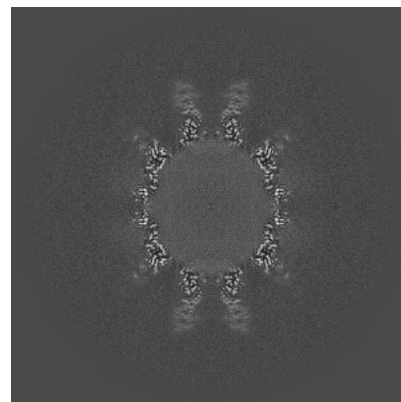
6.2.1 Primary map



X Index: 300

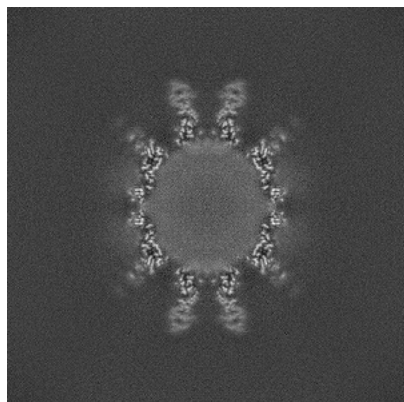


Y Index: 300

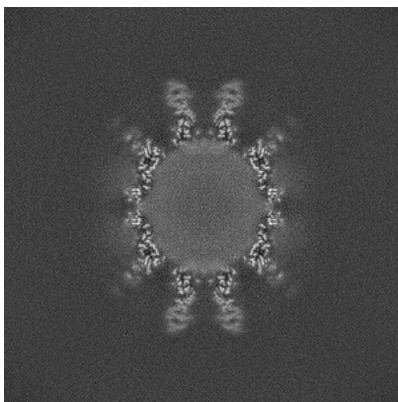


Z Index: 300

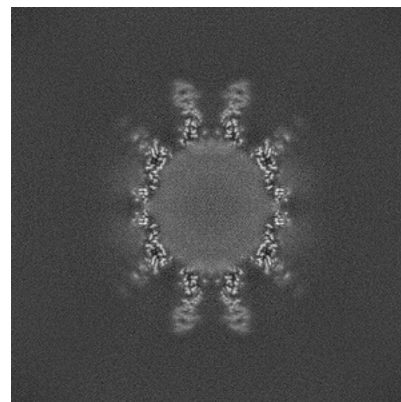
6.2.2 Raw map



X Index: 300



Y Index: 300

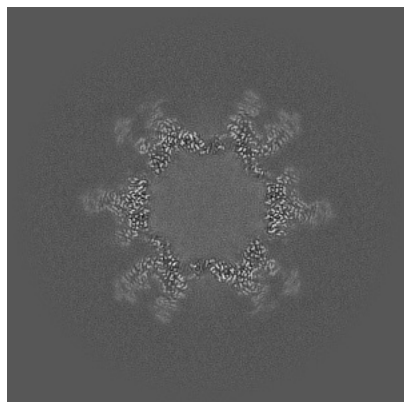


Z Index: 300

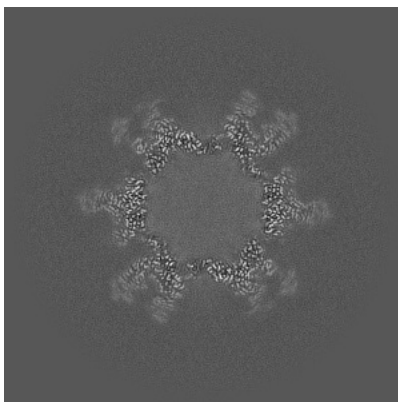
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

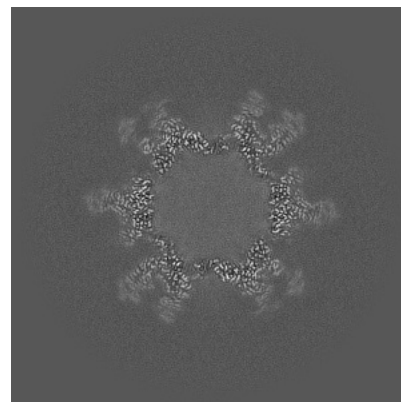
6.3.1 Primary map



X Index: 338

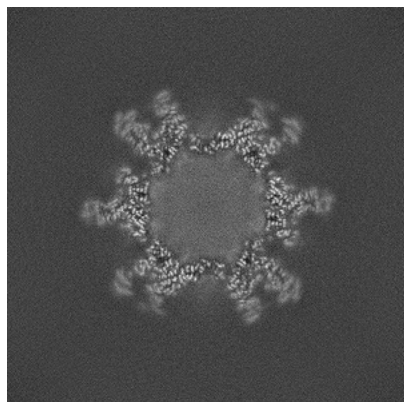


Y Index: 338

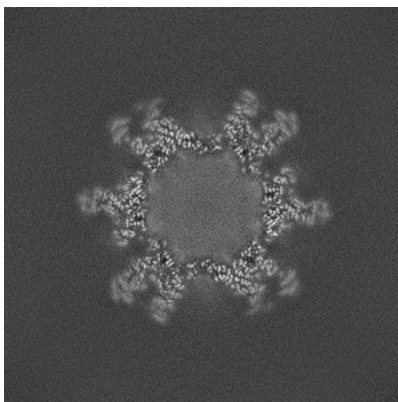


Z Index: 338

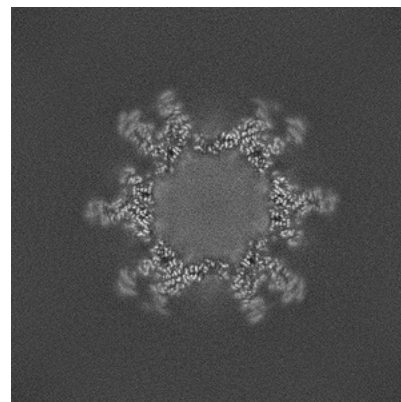
6.3.2 Raw map



X Index: 263



Y Index: 337

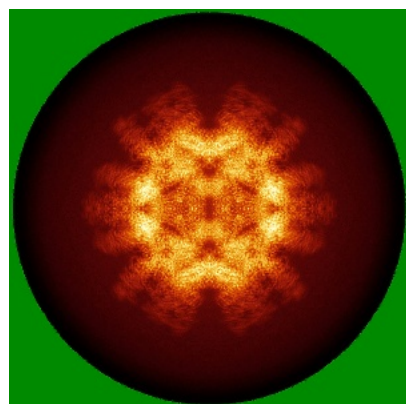


Z Index: 263

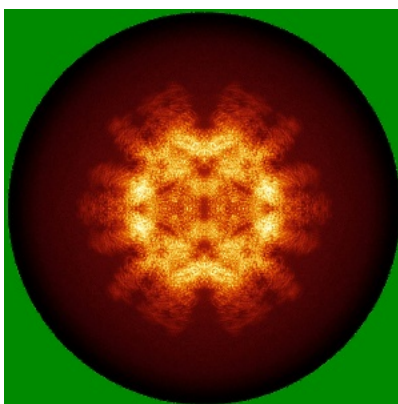
The images above show the largest variance slices of the map in three orthogonal directions.

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

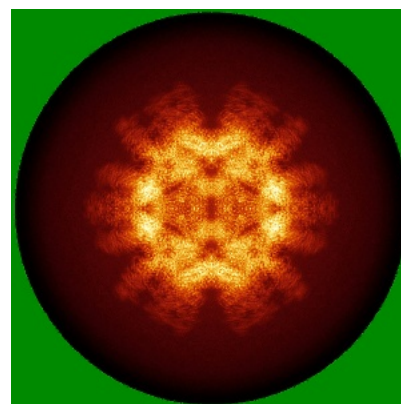
6.4.1 Primary map



X

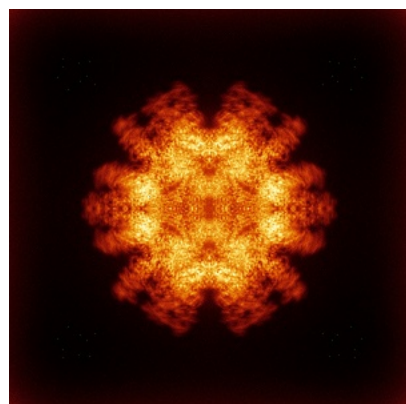


Y

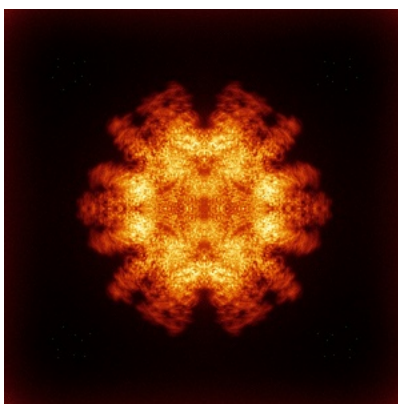


Z

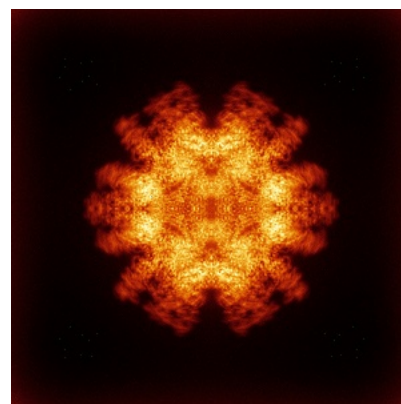
6.4.2 Raw map



X



Y

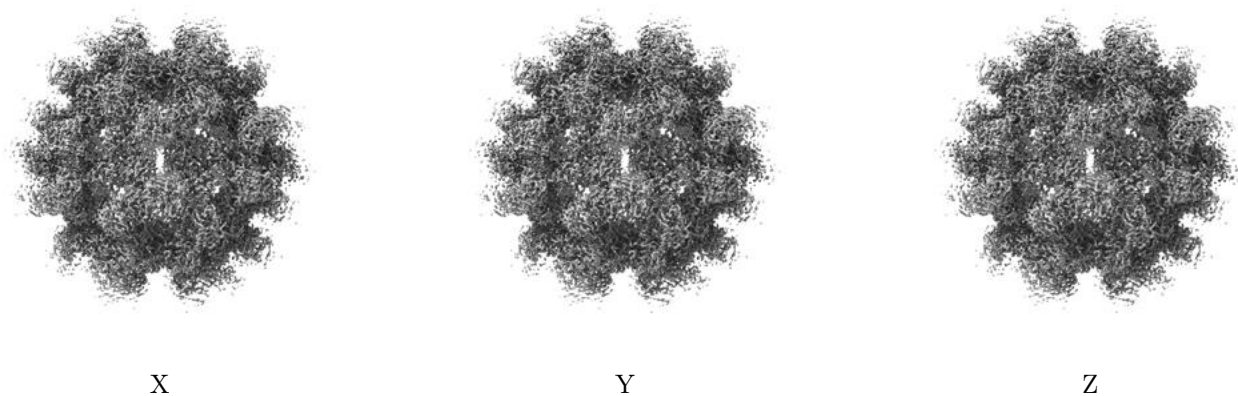


Z

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

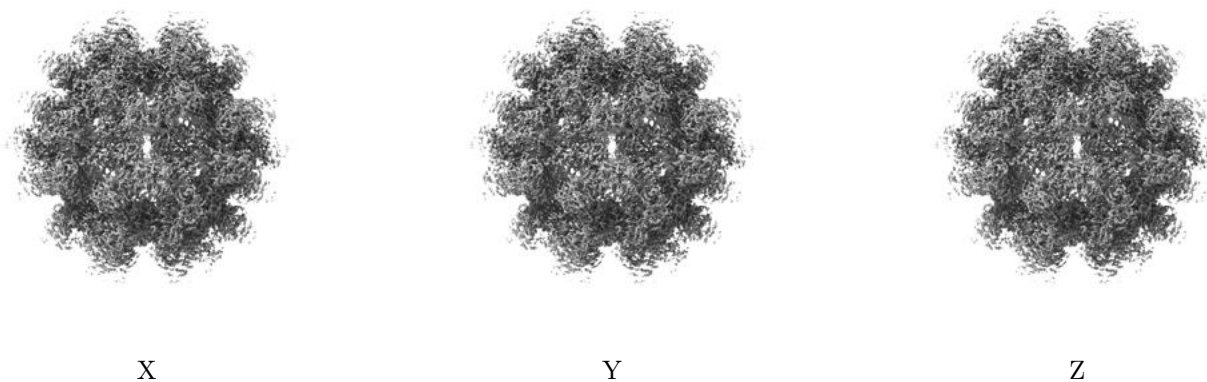
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.113. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

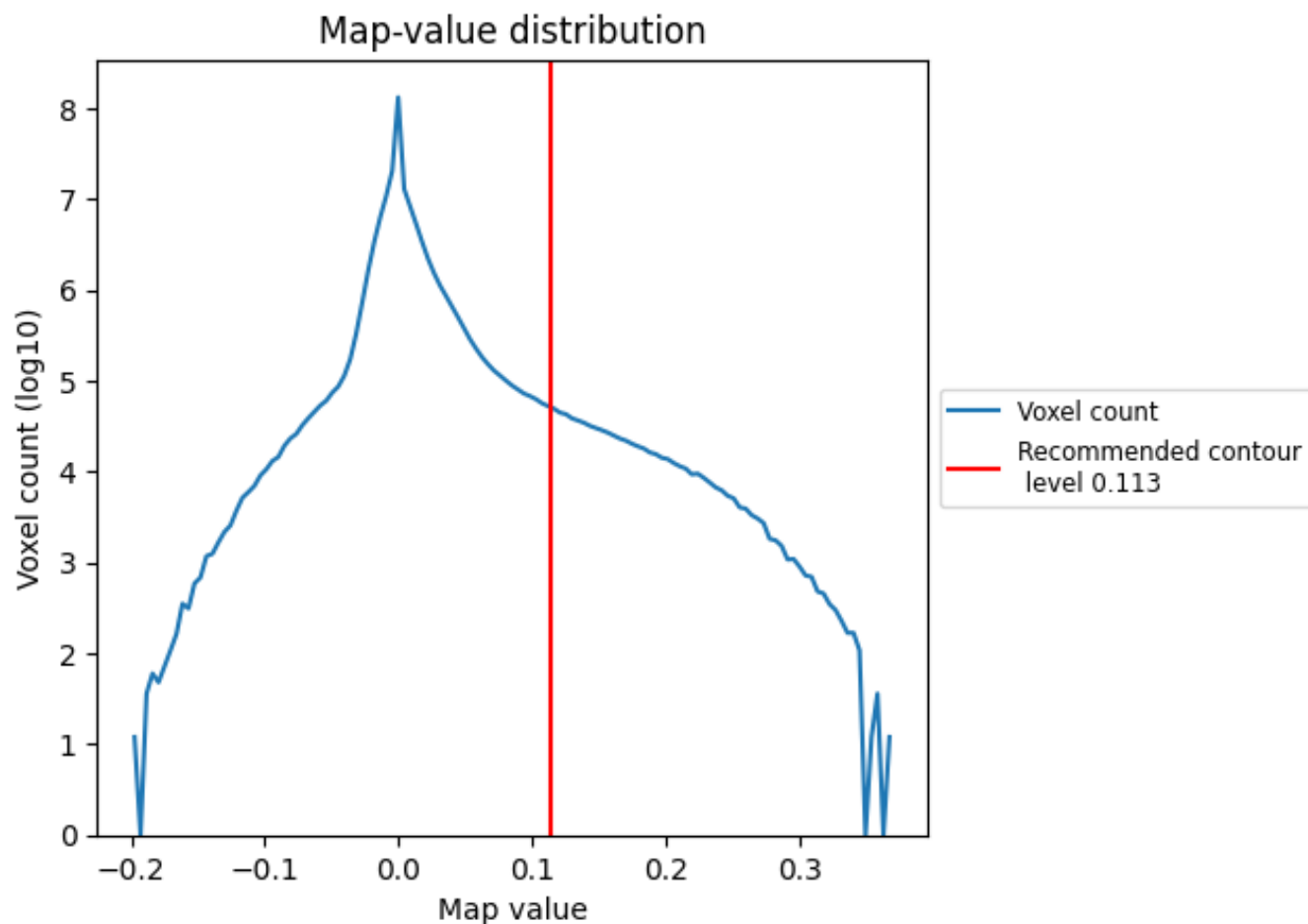
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

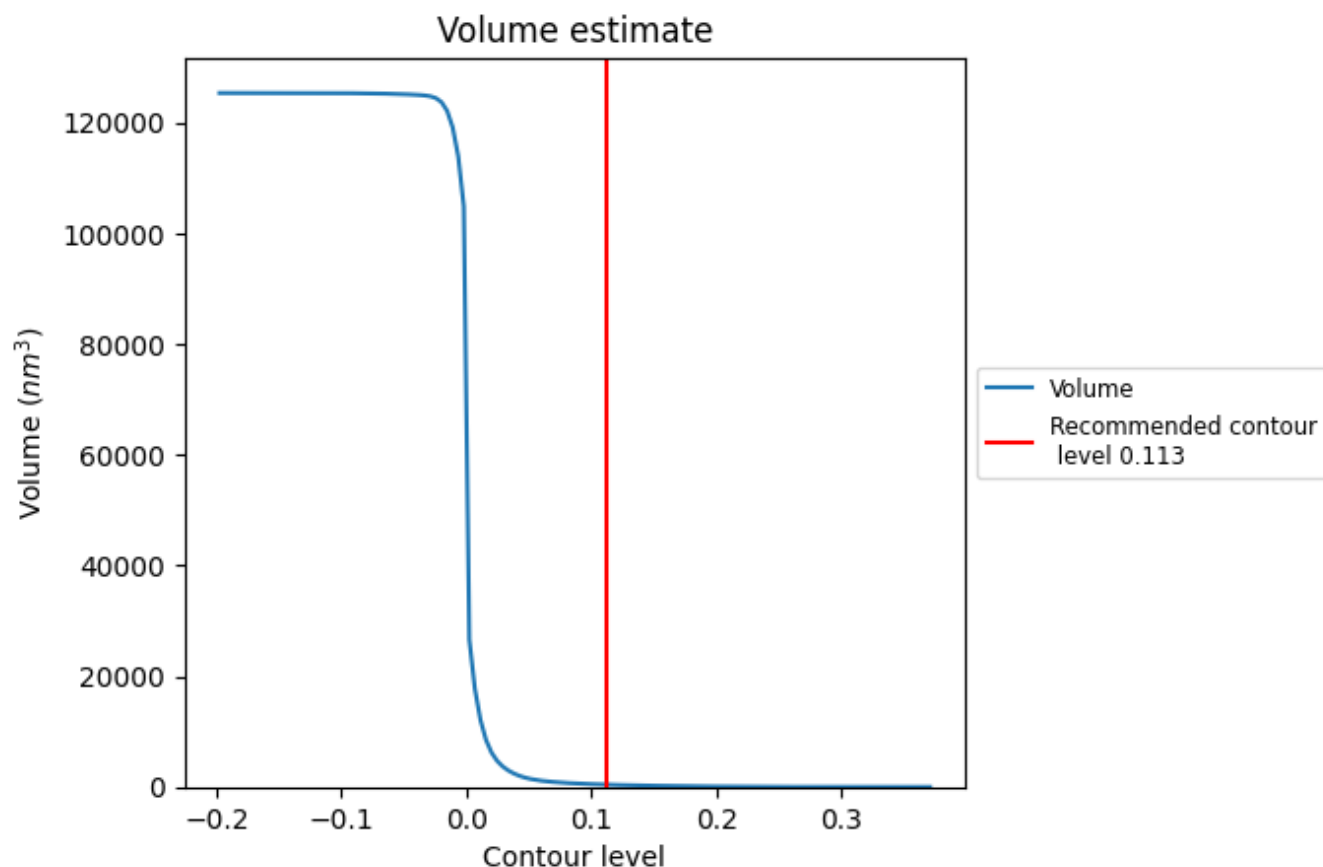
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

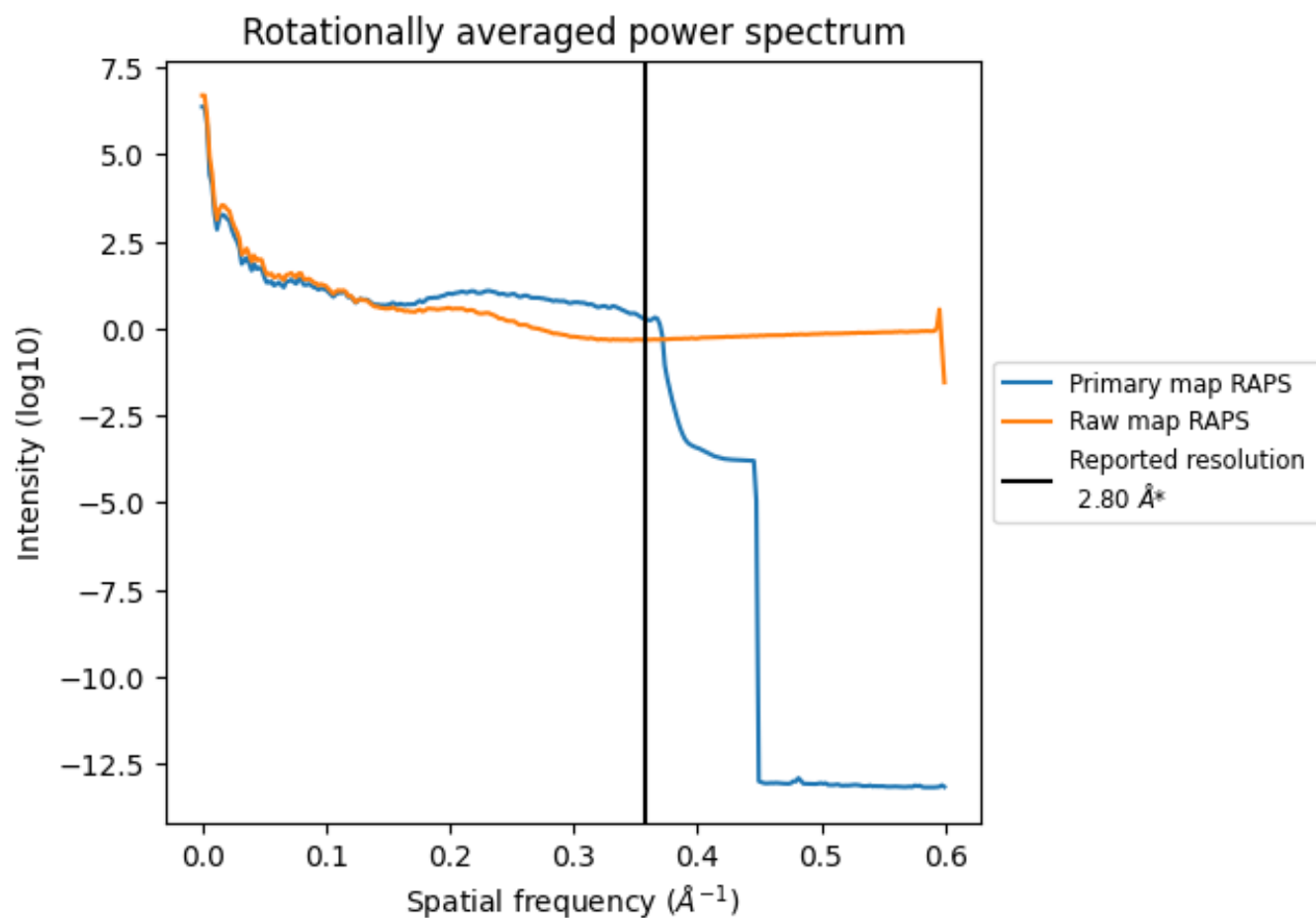
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 412 nm³; this corresponds to an approximate mass of 372 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

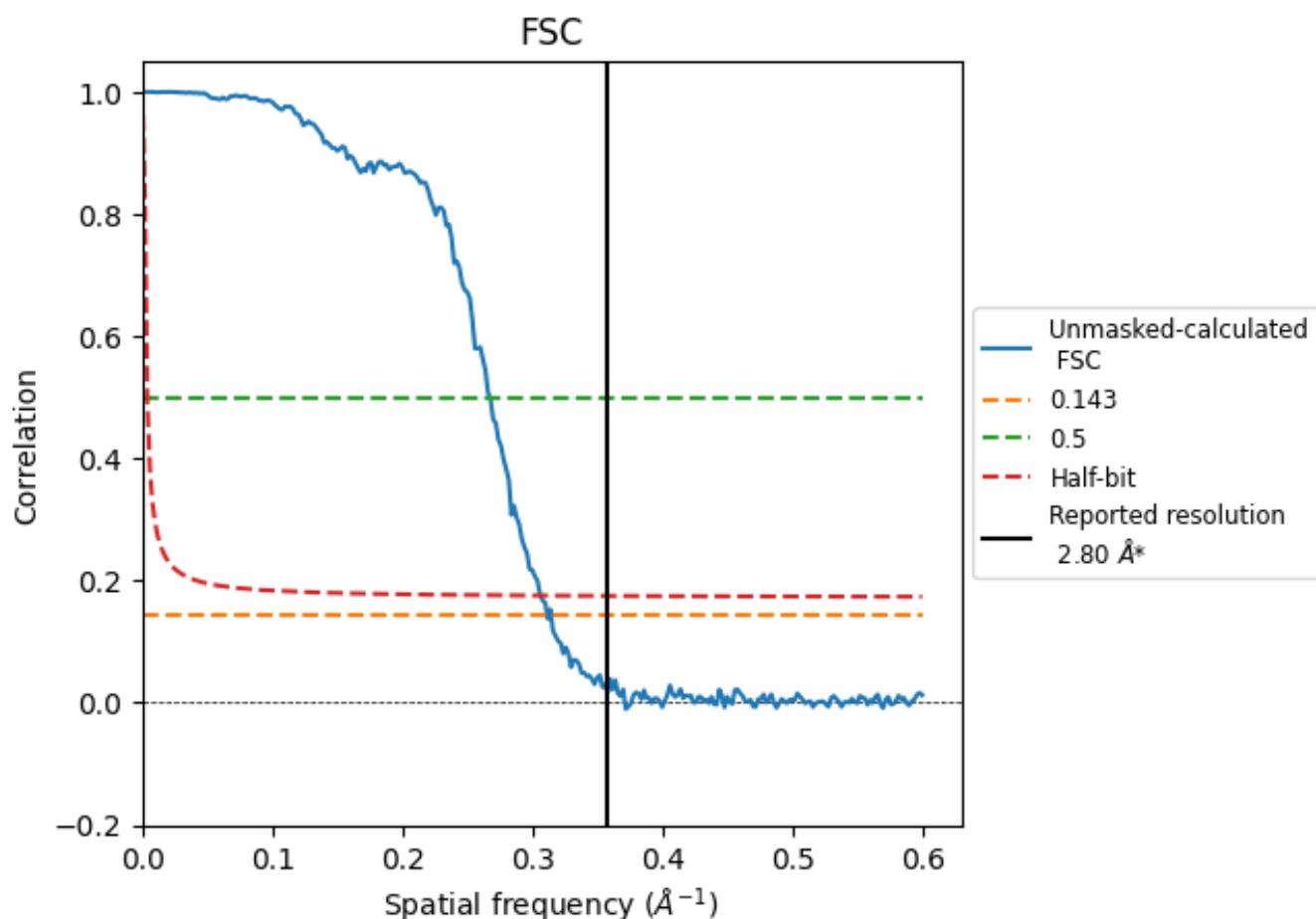


*Reported resolution corresponds to spatial frequency of 0.357 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.357 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

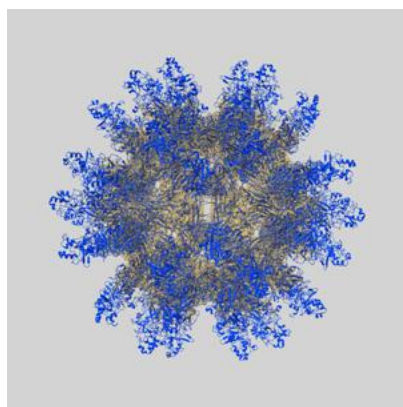
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.80	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.21	3.74	3.27

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.21 differs from the reported value 2.8 by more than 10 %

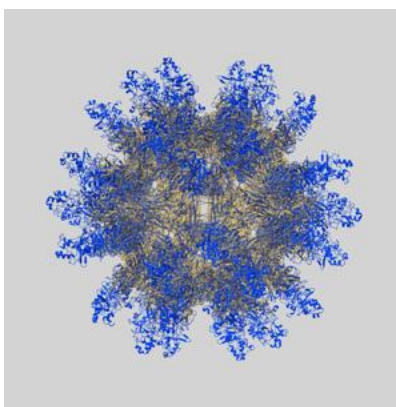
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-43009 and PDB model 8V7X. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

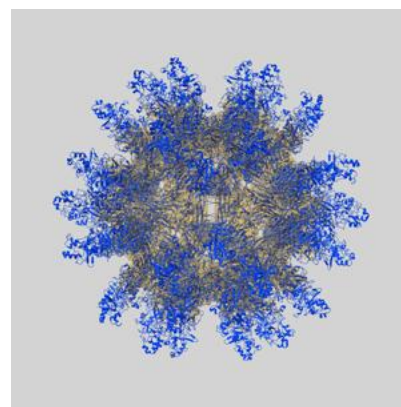
9.1 Map-model overlay [i](#)



X



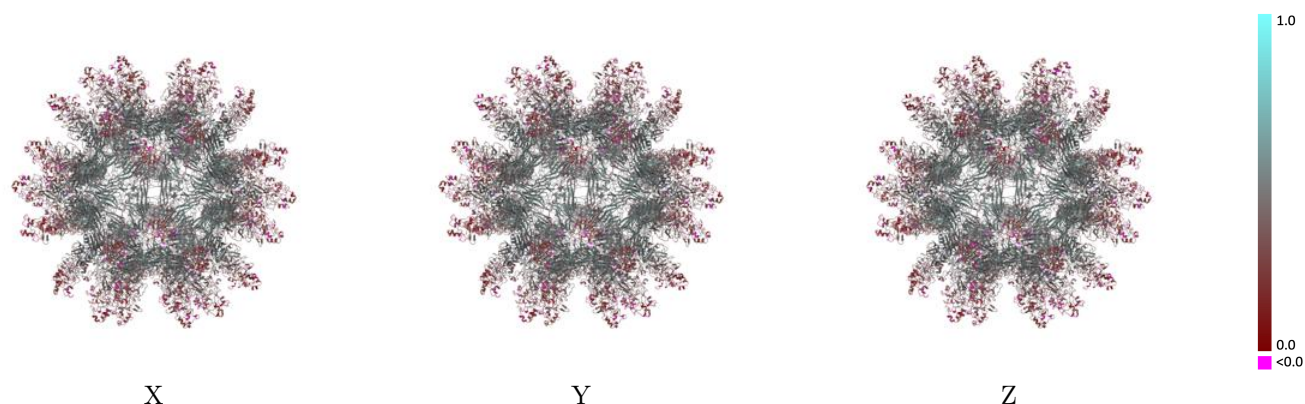
Y



Z

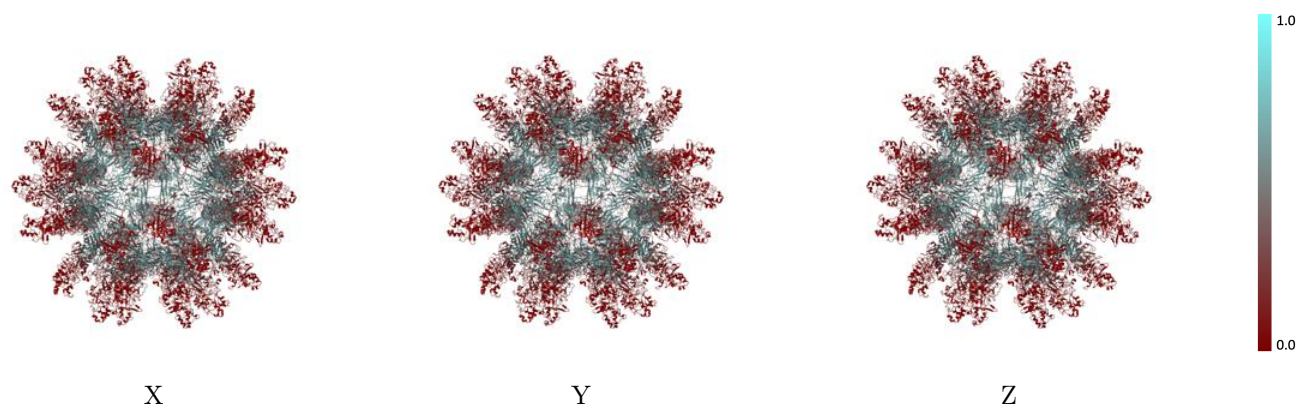
The images above show the 3D surface view of the map at the recommended contour level 0.113 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



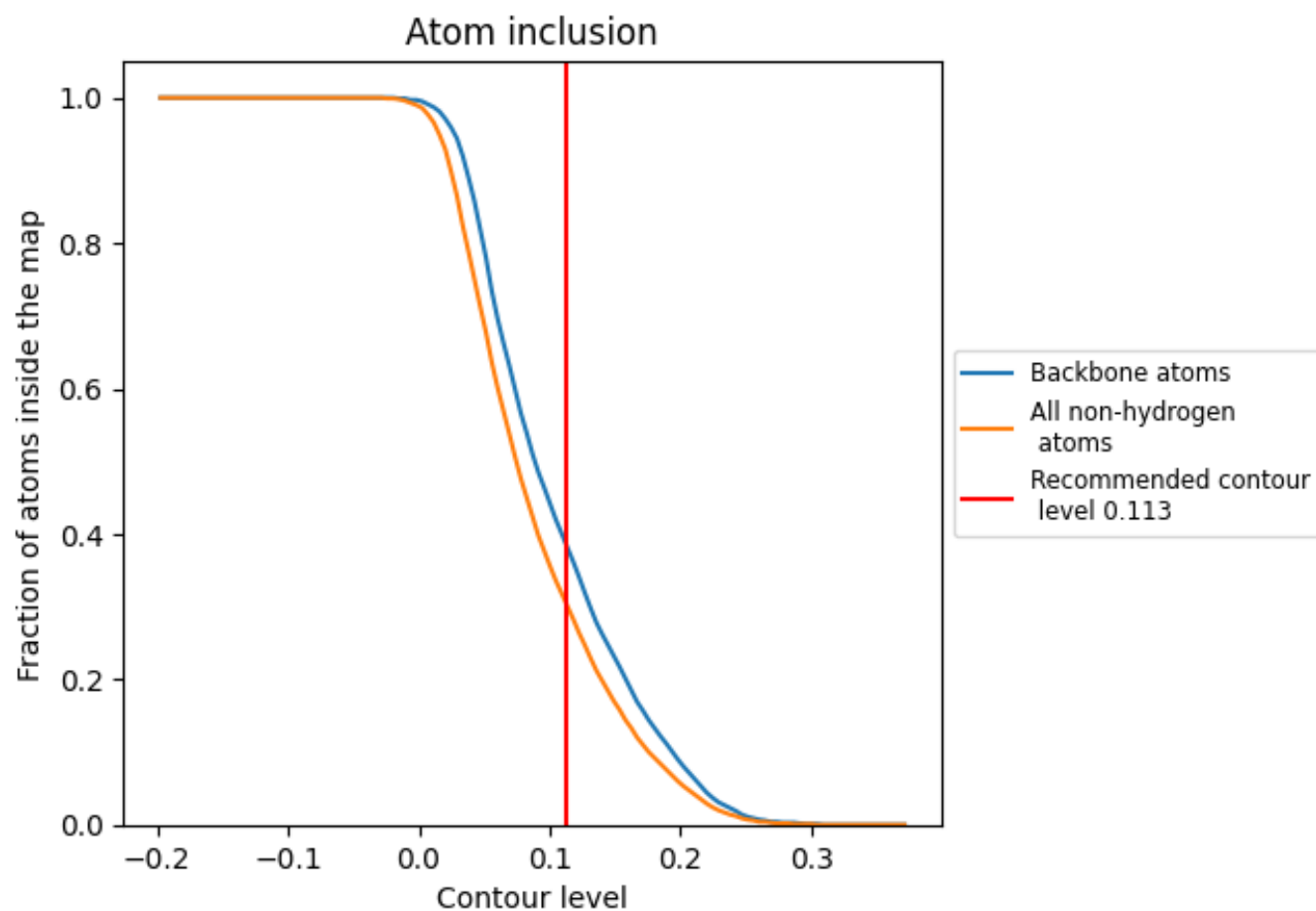
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.113).

9.4 Atom inclusion [i](#)



At the recommended contour level, 38% of all backbone atoms, 30% 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 (0.113) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3030	0.4010
0	0.3010	0.3970
1	0.3070	0.4060
2	0.3040	0.3980
3	0.3020	0.4020
4	0.3010	0.4030
5	0.3060	0.4030
6	0.3010	0.4010
7	0.3030	0.3950
A	0.3010	0.3990
B	0.3020	0.4070
C	0.3040	0.3980
D	0.3030	0.4080
E	0.3060	0.4020
F	0.3020	0.3950
G	0.3040	0.4010
H	0.3000	0.4000
I	0.3040	0.3990
J	0.3040	0.4060
K	0.3010	0.3990
L	0.3010	0.3930
M	0.3010	0.3940
N	0.3040	0.4010
O	0.3030	0.4050
P	0.3050	0.4010
Q	0.3020	0.3950
R	0.3050	0.4030
S	0.3030	0.4070
T	0.3020	0.4030
U	0.3060	0.3990
V	0.3040	0.3980
W	0.3050	0.4050
X	0.3020	0.3970
Y	0.3060	0.4070
Z	0.3010	0.3990

1.0

0.0

<0.0

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Chain	Atom inclusion	Q-score
a	 0.3020	 0.4050
b	 0.3020	 0.3980
c	 0.3010	 0.4020
d	 0.3040	 0.4030
e	 0.3020	 0.4010
f	 0.3020	 0.3980
g	 0.3030	 0.3980
h	 0.3050	 0.4020
i	 0.3010	 0.4030
j	 0.3010	 0.4010
k	 0.3020	 0.4040
l	 0.3030	 0.4050
m	 0.3030	 0.4060
n	 0.3020	 0.4060
o	 0.3020	 0.3960
p	 0.3010	 0.4050
q	 0.3050	 0.4060
r	 0.3050	 0.4010
s	 0.3060	 0.3950
t	 0.3060	 0.4020
u	 0.3020	 0.3950
v	 0.3040	 0.4060
w	 0.3060	 0.3940
x	 0.3010	 0.4000
y	 0.3030	 0.4010
z	 0.3050	 0.4020