



Full wwPDB EM Validation Report ⓘ

Apr 18, 2026 – 09:06 am BST

PDB ID : 9SWA / pdb_00009swa
EMDB ID : EMD-55303
Title : Adenovirus dodecahedron
Authors : Kabasakal, B.V.; Buzas, D.; Bufton, J.; Berger-Schaffitzel, C.; Berger, I.
Deposited on : 2025-10-04
Resolution : 2.20 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:

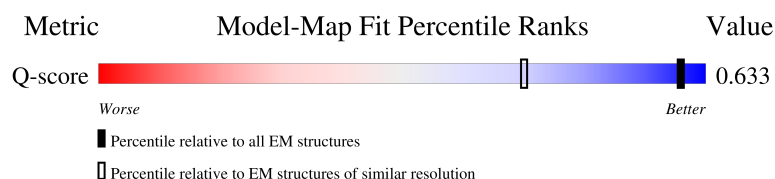
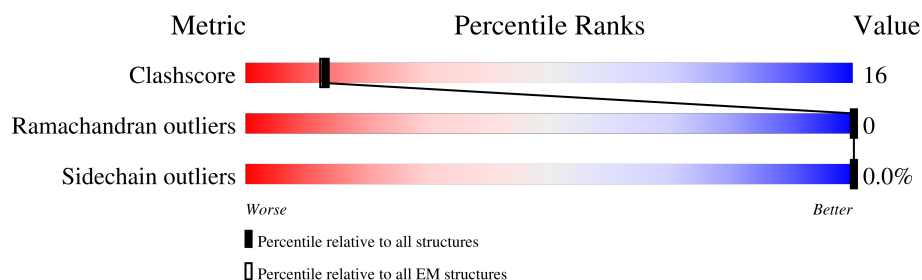
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 2.20 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	3184 (1.71 - 2.70)

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

Mol	Chain	Length	Quality of chain
1	1	543	<div> <div>80%</div> <div> <div></div> <div>64%</div> <div>15%</div> <div>•</div> <div>20%</div> </div> </div>
1	2	543	<div> <div>80%</div> <div> <div></div> <div>63%</div> <div>16%</div> <div>•</div> <div>20%</div> </div> </div>
1	3	543	<div> <div>80%</div> <div> <div></div> <div>64%</div> <div>15%</div> <div>•</div> <div>20%</div> </div> </div>
1	4	543	<div> <div>80%</div> <div> <div></div> <div>63%</div> <div>16%</div> <div>•</div> <div>20%</div> </div> </div>

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Mol	Chain	Length	Quality of chain
1	5	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	6	543	<div> <div>80%</div> <div>62% 16% • 20%</div> </div>
1	7	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	8	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	9	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	A	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	B	543	<div> <div>80%</div> <div>63% 15% • 20%</div> </div>
1	C	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	D	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	E	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	F	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	G	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	H	543	<div> <div>80%</div> <div>63% 15% • 20%</div> </div>
1	I	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	J	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	K	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	L	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	M	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	N	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	O	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	P	543	<div> <div>80%</div> <div>63% 15% • 20%</div> </div>
1	Q	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	R	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	S	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	T	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>


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Mol	Chain	Length	Quality of chain
1	V	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	W	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	X	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	Y	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	Z	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	a	543	<div> <div>80%</div> <div>63% 15% • 20%</div> </div>
1	b	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	c	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	d	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	e	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	f	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	g	543	<div> <div>80%</div> <div>62% 16% • 20%</div> </div>
1	h	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	i	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	j	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	k	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	l	543	<div> <div>80%</div> <div>62% 17% • 20%</div> </div>
1	m	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	n	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	o	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>
1	p	543	<div> <div>80%</div> <div>63% 15% • 20%</div> </div>
1	q	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	r	543	<div> <div>80%</div> <div>62% 17% • 20%</div> </div>
1	s	543	<div> <div>80%</div> <div>63% 16% • 20%</div> </div>
1	t	543	<div> <div>80%</div> <div>64% 15% • 20%</div> </div>

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Mol	Chain	Length	Quality of chain
1	u	543	 80% 63% 16% • 20%
1	v	543	 80% 63% 16% • 20%
1	w	543	 80% 63% 16% • 20%
1	x	543	 80% 64% 15% • 20%
1	y	543	 80% 62% 16% • 20%
1	z	543	 80% 63% 16% • 20%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 210432 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 Penton protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	2	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	3	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	4	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	5	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	6	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	7	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	8	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	9	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	A	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	B	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	C	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	D	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	E	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	F	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	G	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	H	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	I	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	J	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	K	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	L	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	M	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	N	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	O	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	P	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	Q	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	R	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	S	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	T	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	V	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	W	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	X	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	Y	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	Z	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	a	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	b	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	c	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	d	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	e	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	f	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	g	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	h	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	i	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	j	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	k	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	l	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	m	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	n	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	o	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	p	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	q	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	r	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	s	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	t	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	u	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	v	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	w	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	x	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		
1	y	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	z	435	Total	C	N	O	S	1	0
			3507	2217	604	673	13		

There are 720 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1	57	SER	ALA	conflict	UNP G9G849
1	153	GLU	-	insertion	UNP G9G849
1	154	PHE	-	insertion	UNP G9G849
1	161	PRO	-	insertion	UNP G9G849
1	162	GLY	-	insertion	UNP G9G849
1	310	ARG	-	insertion	UNP G9G849
1	322	ASP	-	insertion	UNP G9G849
1	323	VAL	-	insertion	UNP G9G849
1	334	GLU	-	insertion	UNP G9G849
1	335	LEU	-	insertion	UNP G9G849
1	347	SER	-	insertion	UNP G9G849
1	348	ARG	-	insertion	UNP G9G849
2	57	SER	ALA	conflict	UNP G9G849
2	153	GLU	-	insertion	UNP G9G849
2	154	PHE	-	insertion	UNP G9G849
2	161	PRO	-	insertion	UNP G9G849
2	162	GLY	-	insertion	UNP G9G849
2	310	ARG	-	insertion	UNP G9G849
2	322	ASP	-	insertion	UNP G9G849
2	323	VAL	-	insertion	UNP G9G849
2	334	GLU	-	insertion	UNP G9G849
2	335	LEU	-	insertion	UNP G9G849
2	347	SER	-	insertion	UNP G9G849
2	348	ARG	-	insertion	UNP G9G849
3	57	SER	ALA	conflict	UNP G9G849
3	153	GLU	-	insertion	UNP G9G849
3	154	PHE	-	insertion	UNP G9G849
3	161	PRO	-	insertion	UNP G9G849
3	162	GLY	-	insertion	UNP G9G849
3	310	ARG	-	insertion	UNP G9G849
3	322	ASP	-	insertion	UNP G9G849
3	323	VAL	-	insertion	UNP G9G849
3	334	GLU	-	insertion	UNP G9G849
3	335	LEU	-	insertion	UNP G9G849
3	347	SER	-	insertion	UNP G9G849
3	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
4	57	SER	ALA	conflict	UNP G9G849
4	153	GLU	-	insertion	UNP G9G849
4	154	PHE	-	insertion	UNP G9G849
4	161	PRO	-	insertion	UNP G9G849
4	162	GLY	-	insertion	UNP G9G849
4	310	ARG	-	insertion	UNP G9G849
4	322	ASP	-	insertion	UNP G9G849
4	323	VAL	-	insertion	UNP G9G849
4	334	GLU	-	insertion	UNP G9G849
4	335	LEU	-	insertion	UNP G9G849
4	347	SER	-	insertion	UNP G9G849
4	348	ARG	-	insertion	UNP G9G849
5	57	SER	ALA	conflict	UNP G9G849
5	153	GLU	-	insertion	UNP G9G849
5	154	PHE	-	insertion	UNP G9G849
5	161	PRO	-	insertion	UNP G9G849
5	162	GLY	-	insertion	UNP G9G849
5	310	ARG	-	insertion	UNP G9G849
5	322	ASP	-	insertion	UNP G9G849
5	323	VAL	-	insertion	UNP G9G849
5	334	GLU	-	insertion	UNP G9G849
5	335	LEU	-	insertion	UNP G9G849
5	347	SER	-	insertion	UNP G9G849
5	348	ARG	-	insertion	UNP G9G849
6	57	SER	ALA	conflict	UNP G9G849
6	153	GLU	-	insertion	UNP G9G849
6	154	PHE	-	insertion	UNP G9G849
6	161	PRO	-	insertion	UNP G9G849
6	162	GLY	-	insertion	UNP G9G849
6	310	ARG	-	insertion	UNP G9G849
6	322	ASP	-	insertion	UNP G9G849
6	323	VAL	-	insertion	UNP G9G849
6	334	GLU	-	insertion	UNP G9G849
6	335	LEU	-	insertion	UNP G9G849
6	347	SER	-	insertion	UNP G9G849
6	348	ARG	-	insertion	UNP G9G849
7	57	SER	ALA	conflict	UNP G9G849
7	153	GLU	-	insertion	UNP G9G849
7	154	PHE	-	insertion	UNP G9G849
7	161	PRO	-	insertion	UNP G9G849
7	162	GLY	-	insertion	UNP G9G849
7	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
7	322	ASP	-	insertion	UNP G9G849
7	323	VAL	-	insertion	UNP G9G849
7	334	GLU	-	insertion	UNP G9G849
7	335	LEU	-	insertion	UNP G9G849
7	347	SER	-	insertion	UNP G9G849
7	348	ARG	-	insertion	UNP G9G849
8	57	SER	ALA	conflict	UNP G9G849
8	153	GLU	-	insertion	UNP G9G849
8	154	PHE	-	insertion	UNP G9G849
8	161	PRO	-	insertion	UNP G9G849
8	162	GLY	-	insertion	UNP G9G849
8	310	ARG	-	insertion	UNP G9G849
8	322	ASP	-	insertion	UNP G9G849
8	323	VAL	-	insertion	UNP G9G849
8	334	GLU	-	insertion	UNP G9G849
8	335	LEU	-	insertion	UNP G9G849
8	347	SER	-	insertion	UNP G9G849
8	348	ARG	-	insertion	UNP G9G849
9	57	SER	ALA	conflict	UNP G9G849
9	153	GLU	-	insertion	UNP G9G849
9	154	PHE	-	insertion	UNP G9G849
9	161	PRO	-	insertion	UNP G9G849
9	162	GLY	-	insertion	UNP G9G849
9	310	ARG	-	insertion	UNP G9G849
9	322	ASP	-	insertion	UNP G9G849
9	323	VAL	-	insertion	UNP G9G849
9	334	GLU	-	insertion	UNP G9G849
9	335	LEU	-	insertion	UNP G9G849
9	347	SER	-	insertion	UNP G9G849
9	348	ARG	-	insertion	UNP G9G849
A	57	SER	ALA	conflict	UNP G9G849
A	153	GLU	-	insertion	UNP G9G849
A	154	PHE	-	insertion	UNP G9G849
A	161	PRO	-	insertion	UNP G9G849
A	162	GLY	-	insertion	UNP G9G849
A	310	ARG	-	insertion	UNP G9G849
A	322	ASP	-	insertion	UNP G9G849
A	323	VAL	-	insertion	UNP G9G849
A	334	GLU	-	insertion	UNP G9G849
A	335	LEU	-	insertion	UNP G9G849
A	347	SER	-	insertion	UNP G9G849
A	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
B	57	SER	ALA	conflict	UNP G9G849
B	153	GLU	-	insertion	UNP G9G849
B	154	PHE	-	insertion	UNP G9G849
B	161	PRO	-	insertion	UNP G9G849
B	162	GLY	-	insertion	UNP G9G849
B	310	ARG	-	insertion	UNP G9G849
B	322	ASP	-	insertion	UNP G9G849
B	323	VAL	-	insertion	UNP G9G849
B	334	GLU	-	insertion	UNP G9G849
B	335	LEU	-	insertion	UNP G9G849
B	347	SER	-	insertion	UNP G9G849
B	348	ARG	-	insertion	UNP G9G849
C	57	SER	ALA	conflict	UNP G9G849
C	153	GLU	-	insertion	UNP G9G849
C	154	PHE	-	insertion	UNP G9G849
C	161	PRO	-	insertion	UNP G9G849
C	162	GLY	-	insertion	UNP G9G849
C	310	ARG	-	insertion	UNP G9G849
C	322	ASP	-	insertion	UNP G9G849
C	323	VAL	-	insertion	UNP G9G849
C	334	GLU	-	insertion	UNP G9G849
C	335	LEU	-	insertion	UNP G9G849
C	347	SER	-	insertion	UNP G9G849
C	348	ARG	-	insertion	UNP G9G849
D	57	SER	ALA	conflict	UNP G9G849
D	153	GLU	-	insertion	UNP G9G849
D	154	PHE	-	insertion	UNP G9G849
D	161	PRO	-	insertion	UNP G9G849
D	162	GLY	-	insertion	UNP G9G849
D	310	ARG	-	insertion	UNP G9G849
D	322	ASP	-	insertion	UNP G9G849
D	323	VAL	-	insertion	UNP G9G849
D	334	GLU	-	insertion	UNP G9G849
D	335	LEU	-	insertion	UNP G9G849
D	347	SER	-	insertion	UNP G9G849
D	348	ARG	-	insertion	UNP G9G849
E	57	SER	ALA	conflict	UNP G9G849
E	153	GLU	-	insertion	UNP G9G849
E	154	PHE	-	insertion	UNP G9G849
E	161	PRO	-	insertion	UNP G9G849
E	162	GLY	-	insertion	UNP G9G849
E	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
E	322	ASP	-	insertion	UNP G9G849
E	323	VAL	-	insertion	UNP G9G849
E	334	GLU	-	insertion	UNP G9G849
E	335	LEU	-	insertion	UNP G9G849
E	347	SER	-	insertion	UNP G9G849
E	348	ARG	-	insertion	UNP G9G849
F	57	SER	ALA	conflict	UNP G9G849
F	153	GLU	-	insertion	UNP G9G849
F	154	PHE	-	insertion	UNP G9G849
F	161	PRO	-	insertion	UNP G9G849
F	162	GLY	-	insertion	UNP G9G849
F	310	ARG	-	insertion	UNP G9G849
F	322	ASP	-	insertion	UNP G9G849
F	323	VAL	-	insertion	UNP G9G849
F	334	GLU	-	insertion	UNP G9G849
F	335	LEU	-	insertion	UNP G9G849
F	347	SER	-	insertion	UNP G9G849
F	348	ARG	-	insertion	UNP G9G849
G	57	SER	ALA	conflict	UNP G9G849
G	153	GLU	-	insertion	UNP G9G849
G	154	PHE	-	insertion	UNP G9G849
G	161	PRO	-	insertion	UNP G9G849
G	162	GLY	-	insertion	UNP G9G849
G	310	ARG	-	insertion	UNP G9G849
G	322	ASP	-	insertion	UNP G9G849
G	323	VAL	-	insertion	UNP G9G849
G	334	GLU	-	insertion	UNP G9G849
G	335	LEU	-	insertion	UNP G9G849
G	347	SER	-	insertion	UNP G9G849
G	348	ARG	-	insertion	UNP G9G849
H	57	SER	ALA	conflict	UNP G9G849
H	153	GLU	-	insertion	UNP G9G849
H	154	PHE	-	insertion	UNP G9G849
H	161	PRO	-	insertion	UNP G9G849
H	162	GLY	-	insertion	UNP G9G849
H	310	ARG	-	insertion	UNP G9G849
H	322	ASP	-	insertion	UNP G9G849
H	323	VAL	-	insertion	UNP G9G849
H	334	GLU	-	insertion	UNP G9G849
H	335	LEU	-	insertion	UNP G9G849
H	347	SER	-	insertion	UNP G9G849
H	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
I	57	SER	ALA	conflict	UNP G9G849
I	153	GLU	-	insertion	UNP G9G849
I	154	PHE	-	insertion	UNP G9G849
I	161	PRO	-	insertion	UNP G9G849
I	162	GLY	-	insertion	UNP G9G849
I	310	ARG	-	insertion	UNP G9G849
I	322	ASP	-	insertion	UNP G9G849
I	323	VAL	-	insertion	UNP G9G849
I	334	GLU	-	insertion	UNP G9G849
I	335	LEU	-	insertion	UNP G9G849
I	347	SER	-	insertion	UNP G9G849
I	348	ARG	-	insertion	UNP G9G849
J	57	SER	ALA	conflict	UNP G9G849
J	153	GLU	-	insertion	UNP G9G849
J	154	PHE	-	insertion	UNP G9G849
J	161	PRO	-	insertion	UNP G9G849
J	162	GLY	-	insertion	UNP G9G849
J	310	ARG	-	insertion	UNP G9G849
J	322	ASP	-	insertion	UNP G9G849
J	323	VAL	-	insertion	UNP G9G849
J	334	GLU	-	insertion	UNP G9G849
J	335	LEU	-	insertion	UNP G9G849
J	347	SER	-	insertion	UNP G9G849
J	348	ARG	-	insertion	UNP G9G849
K	57	SER	ALA	conflict	UNP G9G849
K	153	GLU	-	insertion	UNP G9G849
K	154	PHE	-	insertion	UNP G9G849
K	161	PRO	-	insertion	UNP G9G849
K	162	GLY	-	insertion	UNP G9G849
K	310	ARG	-	insertion	UNP G9G849
K	322	ASP	-	insertion	UNP G9G849
K	323	VAL	-	insertion	UNP G9G849
K	334	GLU	-	insertion	UNP G9G849
K	335	LEU	-	insertion	UNP G9G849
K	347	SER	-	insertion	UNP G9G849
K	348	ARG	-	insertion	UNP G9G849
L	57	SER	ALA	conflict	UNP G9G849
L	153	GLU	-	insertion	UNP G9G849
L	154	PHE	-	insertion	UNP G9G849
L	161	PRO	-	insertion	UNP G9G849
L	162	GLY	-	insertion	UNP G9G849
L	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
L	322	ASP	-	insertion	UNP G9G849
L	323	VAL	-	insertion	UNP G9G849
L	334	GLU	-	insertion	UNP G9G849
L	335	LEU	-	insertion	UNP G9G849
L	347	SER	-	insertion	UNP G9G849
L	348	ARG	-	insertion	UNP G9G849
M	57	SER	ALA	conflict	UNP G9G849
M	153	GLU	-	insertion	UNP G9G849
M	154	PHE	-	insertion	UNP G9G849
M	161	PRO	-	insertion	UNP G9G849
M	162	GLY	-	insertion	UNP G9G849
M	310	ARG	-	insertion	UNP G9G849
M	322	ASP	-	insertion	UNP G9G849
M	323	VAL	-	insertion	UNP G9G849
M	334	GLU	-	insertion	UNP G9G849
M	335	LEU	-	insertion	UNP G9G849
M	347	SER	-	insertion	UNP G9G849
M	348	ARG	-	insertion	UNP G9G849
N	57	SER	ALA	conflict	UNP G9G849
N	153	GLU	-	insertion	UNP G9G849
N	154	PHE	-	insertion	UNP G9G849
N	161	PRO	-	insertion	UNP G9G849
N	162	GLY	-	insertion	UNP G9G849
N	310	ARG	-	insertion	UNP G9G849
N	322	ASP	-	insertion	UNP G9G849
N	323	VAL	-	insertion	UNP G9G849
N	334	GLU	-	insertion	UNP G9G849
N	335	LEU	-	insertion	UNP G9G849
N	347	SER	-	insertion	UNP G9G849
N	348	ARG	-	insertion	UNP G9G849
O	57	SER	ALA	conflict	UNP G9G849
O	153	GLU	-	insertion	UNP G9G849
O	154	PHE	-	insertion	UNP G9G849
O	161	PRO	-	insertion	UNP G9G849
O	162	GLY	-	insertion	UNP G9G849
O	310	ARG	-	insertion	UNP G9G849
O	322	ASP	-	insertion	UNP G9G849
O	323	VAL	-	insertion	UNP G9G849
O	334	GLU	-	insertion	UNP G9G849
O	335	LEU	-	insertion	UNP G9G849
O	347	SER	-	insertion	UNP G9G849
O	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
P	57	SER	ALA	conflict	UNP G9G849
P	153	GLU	-	insertion	UNP G9G849
P	154	PHE	-	insertion	UNP G9G849
P	161	PRO	-	insertion	UNP G9G849
P	162	GLY	-	insertion	UNP G9G849
P	310	ARG	-	insertion	UNP G9G849
P	322	ASP	-	insertion	UNP G9G849
P	323	VAL	-	insertion	UNP G9G849
P	334	GLU	-	insertion	UNP G9G849
P	335	LEU	-	insertion	UNP G9G849
P	347	SER	-	insertion	UNP G9G849
P	348	ARG	-	insertion	UNP G9G849
Q	57	SER	ALA	conflict	UNP G9G849
Q	153	GLU	-	insertion	UNP G9G849
Q	154	PHE	-	insertion	UNP G9G849
Q	161	PRO	-	insertion	UNP G9G849
Q	162	GLY	-	insertion	UNP G9G849
Q	310	ARG	-	insertion	UNP G9G849
Q	322	ASP	-	insertion	UNP G9G849
Q	323	VAL	-	insertion	UNP G9G849
Q	334	GLU	-	insertion	UNP G9G849
Q	335	LEU	-	insertion	UNP G9G849
Q	347	SER	-	insertion	UNP G9G849
Q	348	ARG	-	insertion	UNP G9G849
R	57	SER	ALA	conflict	UNP G9G849
R	153	GLU	-	insertion	UNP G9G849
R	154	PHE	-	insertion	UNP G9G849
R	161	PRO	-	insertion	UNP G9G849
R	162	GLY	-	insertion	UNP G9G849
R	310	ARG	-	insertion	UNP G9G849
R	322	ASP	-	insertion	UNP G9G849
R	323	VAL	-	insertion	UNP G9G849
R	334	GLU	-	insertion	UNP G9G849
R	335	LEU	-	insertion	UNP G9G849
R	347	SER	-	insertion	UNP G9G849
R	348	ARG	-	insertion	UNP G9G849
S	57	SER	ALA	conflict	UNP G9G849
S	153	GLU	-	insertion	UNP G9G849
S	154	PHE	-	insertion	UNP G9G849
S	161	PRO	-	insertion	UNP G9G849
S	162	GLY	-	insertion	UNP G9G849
S	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
S	322	ASP	-	insertion	UNP G9G849
S	323	VAL	-	insertion	UNP G9G849
S	334	GLU	-	insertion	UNP G9G849
S	335	LEU	-	insertion	UNP G9G849
S	347	SER	-	insertion	UNP G9G849
S	348	ARG	-	insertion	UNP G9G849
T	57	SER	ALA	conflict	UNP G9G849
T	153	GLU	-	insertion	UNP G9G849
T	154	PHE	-	insertion	UNP G9G849
T	161	PRO	-	insertion	UNP G9G849
T	162	GLY	-	insertion	UNP G9G849
T	310	ARG	-	insertion	UNP G9G849
T	322	ASP	-	insertion	UNP G9G849
T	323	VAL	-	insertion	UNP G9G849
T	334	GLU	-	insertion	UNP G9G849
T	335	LEU	-	insertion	UNP G9G849
T	347	SER	-	insertion	UNP G9G849
T	348	ARG	-	insertion	UNP G9G849
V	57	SER	ALA	conflict	UNP G9G849
V	153	GLU	-	insertion	UNP G9G849
V	154	PHE	-	insertion	UNP G9G849
V	161	PRO	-	insertion	UNP G9G849
V	162	GLY	-	insertion	UNP G9G849
V	310	ARG	-	insertion	UNP G9G849
V	322	ASP	-	insertion	UNP G9G849
V	323	VAL	-	insertion	UNP G9G849
V	334	GLU	-	insertion	UNP G9G849
V	335	LEU	-	insertion	UNP G9G849
V	347	SER	-	insertion	UNP G9G849
V	348	ARG	-	insertion	UNP G9G849
W	57	SER	ALA	conflict	UNP G9G849
W	153	GLU	-	insertion	UNP G9G849
W	154	PHE	-	insertion	UNP G9G849
W	161	PRO	-	insertion	UNP G9G849
W	162	GLY	-	insertion	UNP G9G849
W	310	ARG	-	insertion	UNP G9G849
W	322	ASP	-	insertion	UNP G9G849
W	323	VAL	-	insertion	UNP G9G849
W	334	GLU	-	insertion	UNP G9G849
W	335	LEU	-	insertion	UNP G9G849
W	347	SER	-	insertion	UNP G9G849
W	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
X	57	SER	ALA	conflict	UNP G9G849
X	153	GLU	-	insertion	UNP G9G849
X	154	PHE	-	insertion	UNP G9G849
X	161	PRO	-	insertion	UNP G9G849
X	162	GLY	-	insertion	UNP G9G849
X	310	ARG	-	insertion	UNP G9G849
X	322	ASP	-	insertion	UNP G9G849
X	323	VAL	-	insertion	UNP G9G849
X	334	GLU	-	insertion	UNP G9G849
X	335	LEU	-	insertion	UNP G9G849
X	347	SER	-	insertion	UNP G9G849
X	348	ARG	-	insertion	UNP G9G849
Y	57	SER	ALA	conflict	UNP G9G849
Y	153	GLU	-	insertion	UNP G9G849
Y	154	PHE	-	insertion	UNP G9G849
Y	161	PRO	-	insertion	UNP G9G849
Y	162	GLY	-	insertion	UNP G9G849
Y	310	ARG	-	insertion	UNP G9G849
Y	322	ASP	-	insertion	UNP G9G849
Y	323	VAL	-	insertion	UNP G9G849
Y	334	GLU	-	insertion	UNP G9G849
Y	335	LEU	-	insertion	UNP G9G849
Y	347	SER	-	insertion	UNP G9G849
Y	348	ARG	-	insertion	UNP G9G849
Z	57	SER	ALA	conflict	UNP G9G849
Z	153	GLU	-	insertion	UNP G9G849
Z	154	PHE	-	insertion	UNP G9G849
Z	161	PRO	-	insertion	UNP G9G849
Z	162	GLY	-	insertion	UNP G9G849
Z	310	ARG	-	insertion	UNP G9G849
Z	322	ASP	-	insertion	UNP G9G849
Z	323	VAL	-	insertion	UNP G9G849
Z	334	GLU	-	insertion	UNP G9G849
Z	335	LEU	-	insertion	UNP G9G849
Z	347	SER	-	insertion	UNP G9G849
Z	348	ARG	-	insertion	UNP G9G849
a	57	SER	ALA	conflict	UNP G9G849
a	153	GLU	-	insertion	UNP G9G849
a	154	PHE	-	insertion	UNP G9G849
a	161	PRO	-	insertion	UNP G9G849
a	162	GLY	-	insertion	UNP G9G849
a	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
a	322	ASP	-	insertion	UNP G9G849
a	323	VAL	-	insertion	UNP G9G849
a	334	GLU	-	insertion	UNP G9G849
a	335	LEU	-	insertion	UNP G9G849
a	347	SER	-	insertion	UNP G9G849
a	348	ARG	-	insertion	UNP G9G849
b	57	SER	ALA	conflict	UNP G9G849
b	153	GLU	-	insertion	UNP G9G849
b	154	PHE	-	insertion	UNP G9G849
b	161	PRO	-	insertion	UNP G9G849
b	162	GLY	-	insertion	UNP G9G849
b	310	ARG	-	insertion	UNP G9G849
b	322	ASP	-	insertion	UNP G9G849
b	323	VAL	-	insertion	UNP G9G849
b	334	GLU	-	insertion	UNP G9G849
b	335	LEU	-	insertion	UNP G9G849
b	347	SER	-	insertion	UNP G9G849
b	348	ARG	-	insertion	UNP G9G849
c	57	SER	ALA	conflict	UNP G9G849
c	153	GLU	-	insertion	UNP G9G849
c	154	PHE	-	insertion	UNP G9G849
c	161	PRO	-	insertion	UNP G9G849
c	162	GLY	-	insertion	UNP G9G849
c	310	ARG	-	insertion	UNP G9G849
c	322	ASP	-	insertion	UNP G9G849
c	323	VAL	-	insertion	UNP G9G849
c	334	GLU	-	insertion	UNP G9G849
c	335	LEU	-	insertion	UNP G9G849
c	347	SER	-	insertion	UNP G9G849
c	348	ARG	-	insertion	UNP G9G849
d	57	SER	ALA	conflict	UNP G9G849
d	153	GLU	-	insertion	UNP G9G849
d	154	PHE	-	insertion	UNP G9G849
d	161	PRO	-	insertion	UNP G9G849
d	162	GLY	-	insertion	UNP G9G849
d	310	ARG	-	insertion	UNP G9G849
d	322	ASP	-	insertion	UNP G9G849
d	323	VAL	-	insertion	UNP G9G849
d	334	GLU	-	insertion	UNP G9G849
d	335	LEU	-	insertion	UNP G9G849
d	347	SER	-	insertion	UNP G9G849
d	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
e	57	SER	ALA	conflict	UNP G9G849
e	153	GLU	-	insertion	UNP G9G849
e	154	PHE	-	insertion	UNP G9G849
e	161	PRO	-	insertion	UNP G9G849
e	162	GLY	-	insertion	UNP G9G849
e	310	ARG	-	insertion	UNP G9G849
e	322	ASP	-	insertion	UNP G9G849
e	323	VAL	-	insertion	UNP G9G849
e	334	GLU	-	insertion	UNP G9G849
e	335	LEU	-	insertion	UNP G9G849
e	347	SER	-	insertion	UNP G9G849
e	348	ARG	-	insertion	UNP G9G849
f	57	SER	ALA	conflict	UNP G9G849
f	153	GLU	-	insertion	UNP G9G849
f	154	PHE	-	insertion	UNP G9G849
f	161	PRO	-	insertion	UNP G9G849
f	162	GLY	-	insertion	UNP G9G849
f	310	ARG	-	insertion	UNP G9G849
f	322	ASP	-	insertion	UNP G9G849
f	323	VAL	-	insertion	UNP G9G849
f	334	GLU	-	insertion	UNP G9G849
f	335	LEU	-	insertion	UNP G9G849
f	347	SER	-	insertion	UNP G9G849
f	348	ARG	-	insertion	UNP G9G849
g	57	SER	ALA	conflict	UNP G9G849
g	153	GLU	-	insertion	UNP G9G849
g	154	PHE	-	insertion	UNP G9G849
g	161	PRO	-	insertion	UNP G9G849
g	162	GLY	-	insertion	UNP G9G849
g	310	ARG	-	insertion	UNP G9G849
g	322	ASP	-	insertion	UNP G9G849
g	323	VAL	-	insertion	UNP G9G849
g	334	GLU	-	insertion	UNP G9G849
g	335	LEU	-	insertion	UNP G9G849
g	347	SER	-	insertion	UNP G9G849
g	348	ARG	-	insertion	UNP G9G849
h	57	SER	ALA	conflict	UNP G9G849
h	153	GLU	-	insertion	UNP G9G849
h	154	PHE	-	insertion	UNP G9G849
h	161	PRO	-	insertion	UNP G9G849
h	162	GLY	-	insertion	UNP G9G849
h	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
h	322	ASP	-	insertion	UNP G9G849
h	323	VAL	-	insertion	UNP G9G849
h	334	GLU	-	insertion	UNP G9G849
h	335	LEU	-	insertion	UNP G9G849
h	347	SER	-	insertion	UNP G9G849
h	348	ARG	-	insertion	UNP G9G849
i	57	SER	ALA	conflict	UNP G9G849
i	153	GLU	-	insertion	UNP G9G849
i	154	PHE	-	insertion	UNP G9G849
i	161	PRO	-	insertion	UNP G9G849
i	162	GLY	-	insertion	UNP G9G849
i	310	ARG	-	insertion	UNP G9G849
i	322	ASP	-	insertion	UNP G9G849
i	323	VAL	-	insertion	UNP G9G849
i	334	GLU	-	insertion	UNP G9G849
i	335	LEU	-	insertion	UNP G9G849
i	347	SER	-	insertion	UNP G9G849
i	348	ARG	-	insertion	UNP G9G849
j	57	SER	ALA	conflict	UNP G9G849
j	153	GLU	-	insertion	UNP G9G849
j	154	PHE	-	insertion	UNP G9G849
j	161	PRO	-	insertion	UNP G9G849
j	162	GLY	-	insertion	UNP G9G849
j	310	ARG	-	insertion	UNP G9G849
j	322	ASP	-	insertion	UNP G9G849
j	323	VAL	-	insertion	UNP G9G849
j	334	GLU	-	insertion	UNP G9G849
j	335	LEU	-	insertion	UNP G9G849
j	347	SER	-	insertion	UNP G9G849
j	348	ARG	-	insertion	UNP G9G849
k	57	SER	ALA	conflict	UNP G9G849
k	153	GLU	-	insertion	UNP G9G849
k	154	PHE	-	insertion	UNP G9G849
k	161	PRO	-	insertion	UNP G9G849
k	162	GLY	-	insertion	UNP G9G849
k	310	ARG	-	insertion	UNP G9G849
k	322	ASP	-	insertion	UNP G9G849
k	323	VAL	-	insertion	UNP G9G849
k	334	GLU	-	insertion	UNP G9G849
k	335	LEU	-	insertion	UNP G9G849
k	347	SER	-	insertion	UNP G9G849
k	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
l	57	SER	ALA	conflict	UNP G9G849
l	153	GLU	-	insertion	UNP G9G849
l	154	PHE	-	insertion	UNP G9G849
l	161	PRO	-	insertion	UNP G9G849
l	162	GLY	-	insertion	UNP G9G849
l	310	ARG	-	insertion	UNP G9G849
l	322	ASP	-	insertion	UNP G9G849
l	323	VAL	-	insertion	UNP G9G849
l	334	GLU	-	insertion	UNP G9G849
l	335	LEU	-	insertion	UNP G9G849
l	347	SER	-	insertion	UNP G9G849
l	348	ARG	-	insertion	UNP G9G849
m	57	SER	ALA	conflict	UNP G9G849
m	153	GLU	-	insertion	UNP G9G849
m	154	PHE	-	insertion	UNP G9G849
m	161	PRO	-	insertion	UNP G9G849
m	162	GLY	-	insertion	UNP G9G849
m	310	ARG	-	insertion	UNP G9G849
m	322	ASP	-	insertion	UNP G9G849
m	323	VAL	-	insertion	UNP G9G849
m	334	GLU	-	insertion	UNP G9G849
m	335	LEU	-	insertion	UNP G9G849
m	347	SER	-	insertion	UNP G9G849
m	348	ARG	-	insertion	UNP G9G849
n	57	SER	ALA	conflict	UNP G9G849
n	153	GLU	-	insertion	UNP G9G849
n	154	PHE	-	insertion	UNP G9G849
n	161	PRO	-	insertion	UNP G9G849
n	162	GLY	-	insertion	UNP G9G849
n	310	ARG	-	insertion	UNP G9G849
n	322	ASP	-	insertion	UNP G9G849
n	323	VAL	-	insertion	UNP G9G849
n	334	GLU	-	insertion	UNP G9G849
n	335	LEU	-	insertion	UNP G9G849
n	347	SER	-	insertion	UNP G9G849
n	348	ARG	-	insertion	UNP G9G849
o	57	SER	ALA	conflict	UNP G9G849
o	153	GLU	-	insertion	UNP G9G849
o	154	PHE	-	insertion	UNP G9G849
o	161	PRO	-	insertion	UNP G9G849
o	162	GLY	-	insertion	UNP G9G849
o	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
o	322	ASP	-	insertion	UNP G9G849
o	323	VAL	-	insertion	UNP G9G849
o	334	GLU	-	insertion	UNP G9G849
o	335	LEU	-	insertion	UNP G9G849
o	347	SER	-	insertion	UNP G9G849
o	348	ARG	-	insertion	UNP G9G849
p	57	SER	ALA	conflict	UNP G9G849
p	153	GLU	-	insertion	UNP G9G849
p	154	PHE	-	insertion	UNP G9G849
p	161	PRO	-	insertion	UNP G9G849
p	162	GLY	-	insertion	UNP G9G849
p	310	ARG	-	insertion	UNP G9G849
p	322	ASP	-	insertion	UNP G9G849
p	323	VAL	-	insertion	UNP G9G849
p	334	GLU	-	insertion	UNP G9G849
p	335	LEU	-	insertion	UNP G9G849
p	347	SER	-	insertion	UNP G9G849
p	348	ARG	-	insertion	UNP G9G849
q	57	SER	ALA	conflict	UNP G9G849
q	153	GLU	-	insertion	UNP G9G849
q	154	PHE	-	insertion	UNP G9G849
q	161	PRO	-	insertion	UNP G9G849
q	162	GLY	-	insertion	UNP G9G849
q	310	ARG	-	insertion	UNP G9G849
q	322	ASP	-	insertion	UNP G9G849
q	323	VAL	-	insertion	UNP G9G849
q	334	GLU	-	insertion	UNP G9G849
q	335	LEU	-	insertion	UNP G9G849
q	347	SER	-	insertion	UNP G9G849
q	348	ARG	-	insertion	UNP G9G849
r	57	SER	ALA	conflict	UNP G9G849
r	153	GLU	-	insertion	UNP G9G849
r	154	PHE	-	insertion	UNP G9G849
r	161	PRO	-	insertion	UNP G9G849
r	162	GLY	-	insertion	UNP G9G849
r	310	ARG	-	insertion	UNP G9G849
r	322	ASP	-	insertion	UNP G9G849
r	323	VAL	-	insertion	UNP G9G849
r	334	GLU	-	insertion	UNP G9G849
r	335	LEU	-	insertion	UNP G9G849
r	347	SER	-	insertion	UNP G9G849
r	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
s	57	SER	ALA	conflict	UNP G9G849
s	153	GLU	-	insertion	UNP G9G849
s	154	PHE	-	insertion	UNP G9G849
s	161	PRO	-	insertion	UNP G9G849
s	162	GLY	-	insertion	UNP G9G849
s	310	ARG	-	insertion	UNP G9G849
s	322	ASP	-	insertion	UNP G9G849
s	323	VAL	-	insertion	UNP G9G849
s	334	GLU	-	insertion	UNP G9G849
s	335	LEU	-	insertion	UNP G9G849
s	347	SER	-	insertion	UNP G9G849
s	348	ARG	-	insertion	UNP G9G849
t	57	SER	ALA	conflict	UNP G9G849
t	153	GLU	-	insertion	UNP G9G849
t	154	PHE	-	insertion	UNP G9G849
t	161	PRO	-	insertion	UNP G9G849
t	162	GLY	-	insertion	UNP G9G849
t	310	ARG	-	insertion	UNP G9G849
t	322	ASP	-	insertion	UNP G9G849
t	323	VAL	-	insertion	UNP G9G849
t	334	GLU	-	insertion	UNP G9G849
t	335	LEU	-	insertion	UNP G9G849
t	347	SER	-	insertion	UNP G9G849
t	348	ARG	-	insertion	UNP G9G849
u	57	SER	ALA	conflict	UNP G9G849
u	153	GLU	-	insertion	UNP G9G849
u	154	PHE	-	insertion	UNP G9G849
u	161	PRO	-	insertion	UNP G9G849
u	162	GLY	-	insertion	UNP G9G849
u	310	ARG	-	insertion	UNP G9G849
u	322	ASP	-	insertion	UNP G9G849
u	323	VAL	-	insertion	UNP G9G849
u	334	GLU	-	insertion	UNP G9G849
u	335	LEU	-	insertion	UNP G9G849
u	347	SER	-	insertion	UNP G9G849
u	348	ARG	-	insertion	UNP G9G849
v	57	SER	ALA	conflict	UNP G9G849
v	153	GLU	-	insertion	UNP G9G849
v	154	PHE	-	insertion	UNP G9G849
v	161	PRO	-	insertion	UNP G9G849
v	162	GLY	-	insertion	UNP G9G849
v	310	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
v	322	ASP	-	insertion	UNP G9G849
v	323	VAL	-	insertion	UNP G9G849
v	334	GLU	-	insertion	UNP G9G849
v	335	LEU	-	insertion	UNP G9G849
v	347	SER	-	insertion	UNP G9G849
v	348	ARG	-	insertion	UNP G9G849
w	57	SER	ALA	conflict	UNP G9G849
w	153	GLU	-	insertion	UNP G9G849
w	154	PHE	-	insertion	UNP G9G849
w	161	PRO	-	insertion	UNP G9G849
w	162	GLY	-	insertion	UNP G9G849
w	310	ARG	-	insertion	UNP G9G849
w	322	ASP	-	insertion	UNP G9G849
w	323	VAL	-	insertion	UNP G9G849
w	334	GLU	-	insertion	UNP G9G849
w	335	LEU	-	insertion	UNP G9G849
w	347	SER	-	insertion	UNP G9G849
w	348	ARG	-	insertion	UNP G9G849
x	57	SER	ALA	conflict	UNP G9G849
x	153	GLU	-	insertion	UNP G9G849
x	154	PHE	-	insertion	UNP G9G849
x	161	PRO	-	insertion	UNP G9G849
x	162	GLY	-	insertion	UNP G9G849
x	310	ARG	-	insertion	UNP G9G849
x	322	ASP	-	insertion	UNP G9G849
x	323	VAL	-	insertion	UNP G9G849
x	334	GLU	-	insertion	UNP G9G849
x	335	LEU	-	insertion	UNP G9G849
x	347	SER	-	insertion	UNP G9G849
x	348	ARG	-	insertion	UNP G9G849
y	57	SER	ALA	conflict	UNP G9G849
y	153	GLU	-	insertion	UNP G9G849
y	154	PHE	-	insertion	UNP G9G849
y	161	PRO	-	insertion	UNP G9G849
y	162	GLY	-	insertion	UNP G9G849
y	310	ARG	-	insertion	UNP G9G849
y	322	ASP	-	insertion	UNP G9G849
y	323	VAL	-	insertion	UNP G9G849
y	334	GLU	-	insertion	UNP G9G849
y	335	LEU	-	insertion	UNP G9G849
y	347	SER	-	insertion	UNP G9G849
y	348	ARG	-	insertion	UNP G9G849

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Chain	Residue	Modelled	Actual	Comment	Reference
z	57	SER	ALA	conflict	UNP G9G849
z	153	GLU	-	insertion	UNP G9G849
z	154	PHE	-	insertion	UNP G9G849
z	161	PRO	-	insertion	UNP G9G849
z	162	GLY	-	insertion	UNP G9G849
z	310	ARG	-	insertion	UNP G9G849
z	322	ASP	-	insertion	UNP G9G849
z	323	VAL	-	insertion	UNP G9G849
z	334	GLU	-	insertion	UNP G9G849
z	335	LEU	-	insertion	UNP G9G849
z	347	SER	-	insertion	UNP G9G849
z	348	ARG	-	insertion	UNP G9G849

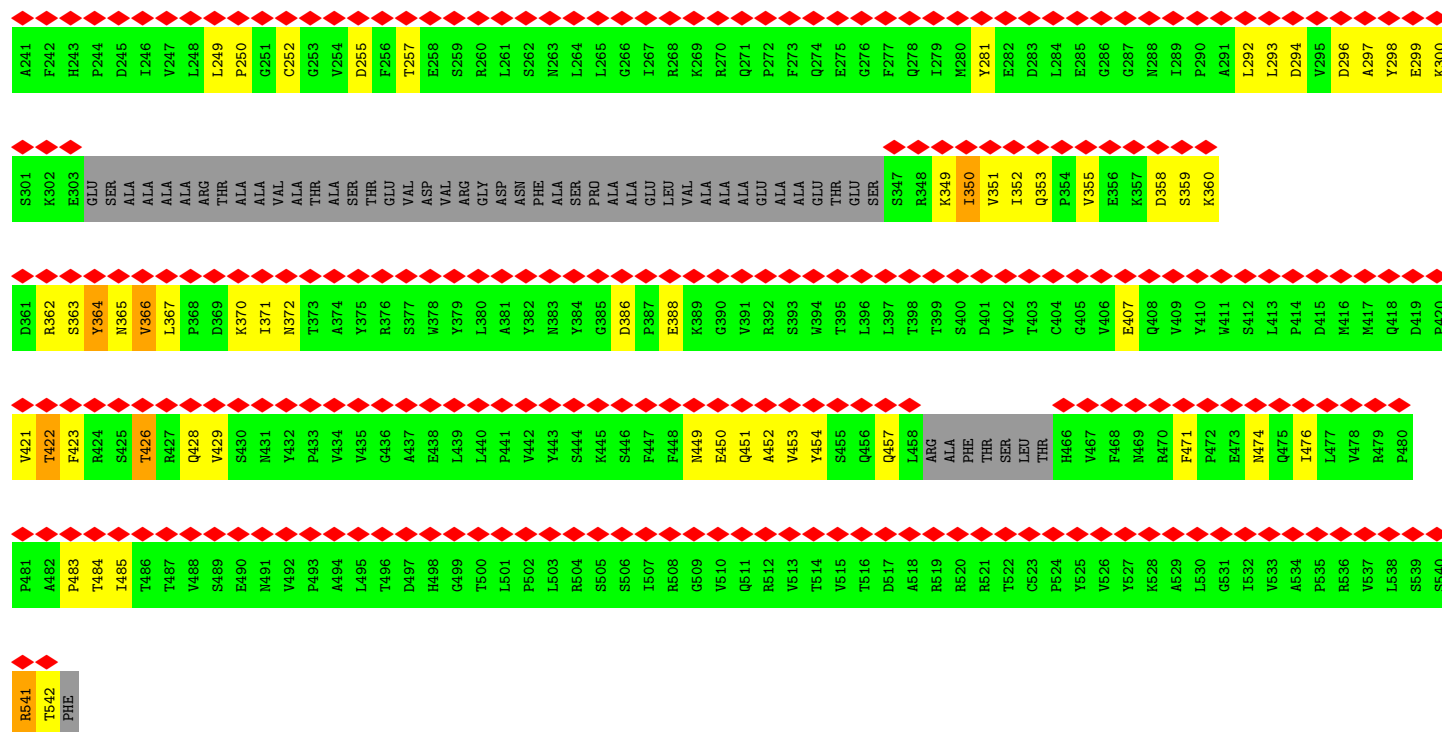
- Molecule 2 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms	AltConf
2	1	1	Total K 1 1	0
2	2	1	Total K 1 1	0
2	3	1	Total K 1 1	0
2	4	1	Total K 1 1	0
2	5	1	Total K 1 1	0
2	6	1	Total K 1 1	0
2	7	1	Total K 1 1	0
2	8	1	Total K 1 1	0
2	9	1	Total K 1 1	0
2	B	1	Total K 1 1	0
2	I	1	Total K 1 1	0
2	R	1	Total K 1 1	0

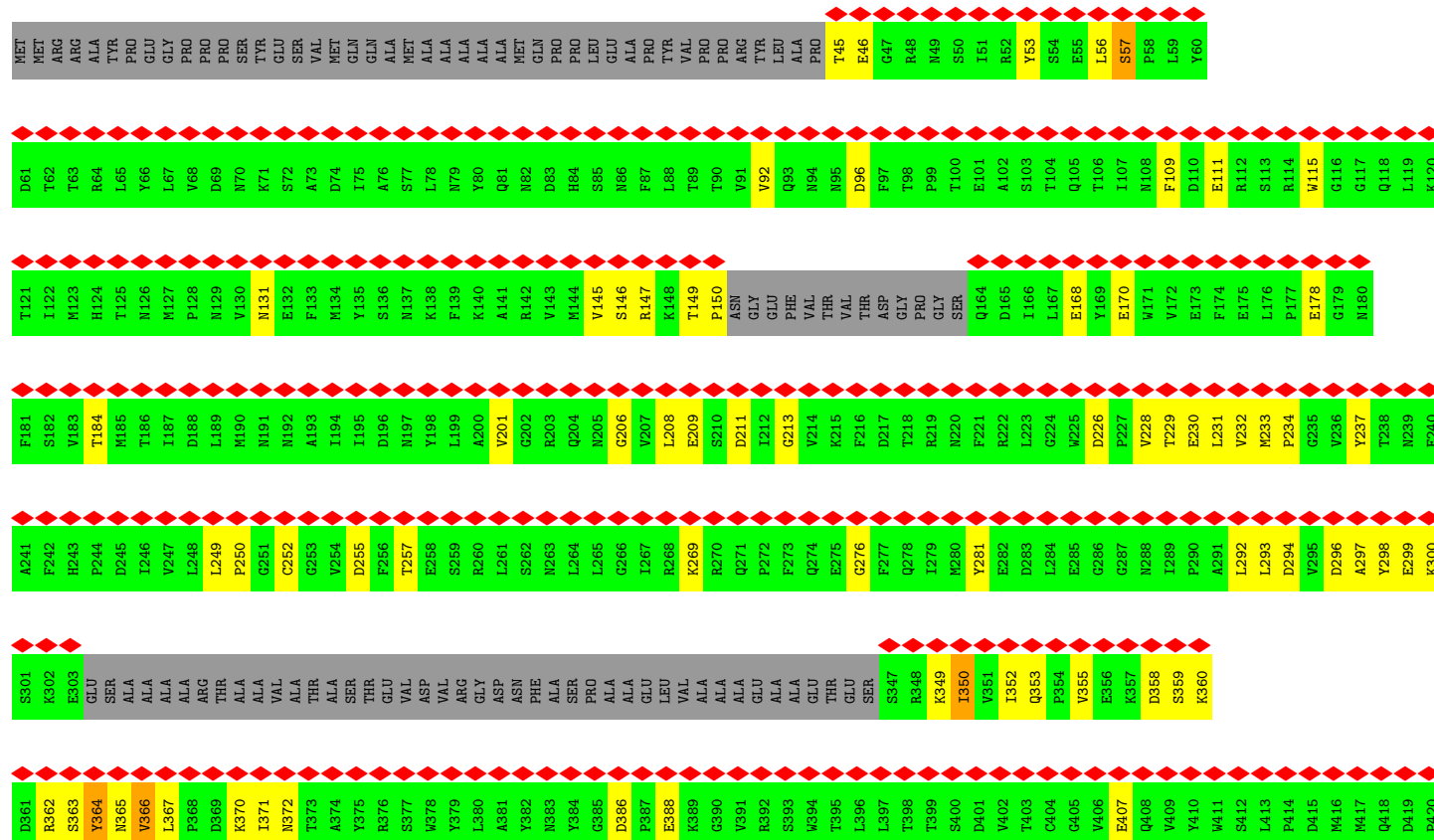
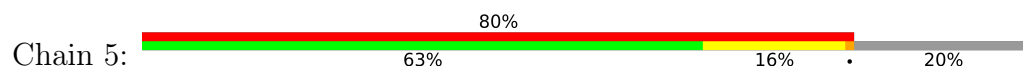
- Molecule 1: Penton protein

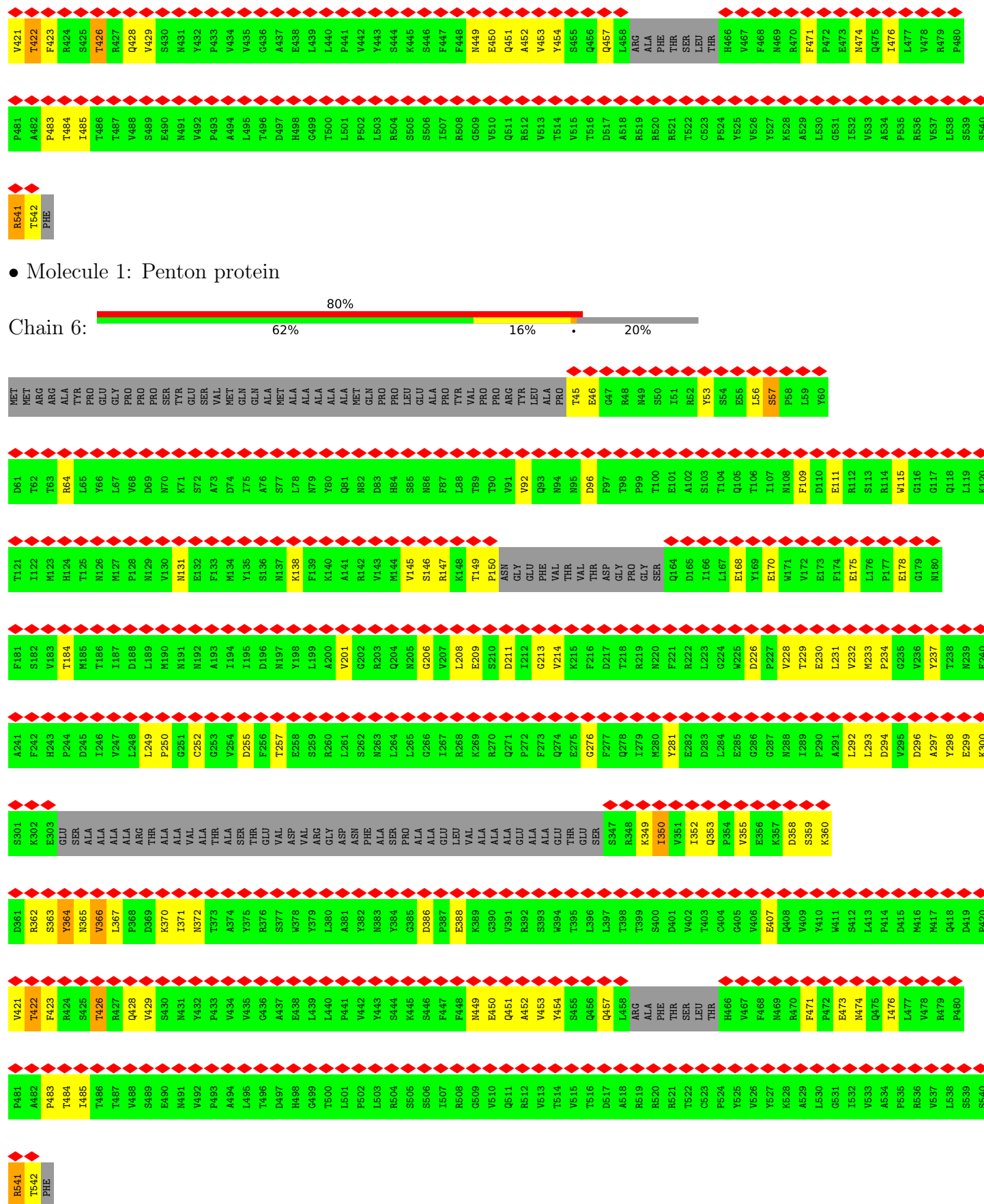
- Molecule 1: Penton protein



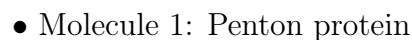


• Molecule 1: Penton protein

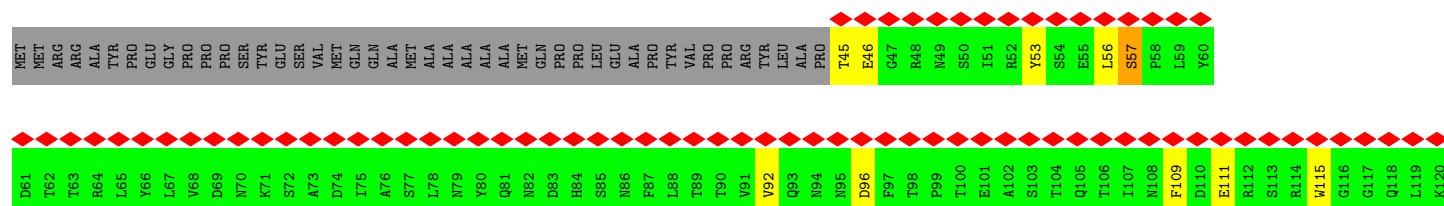


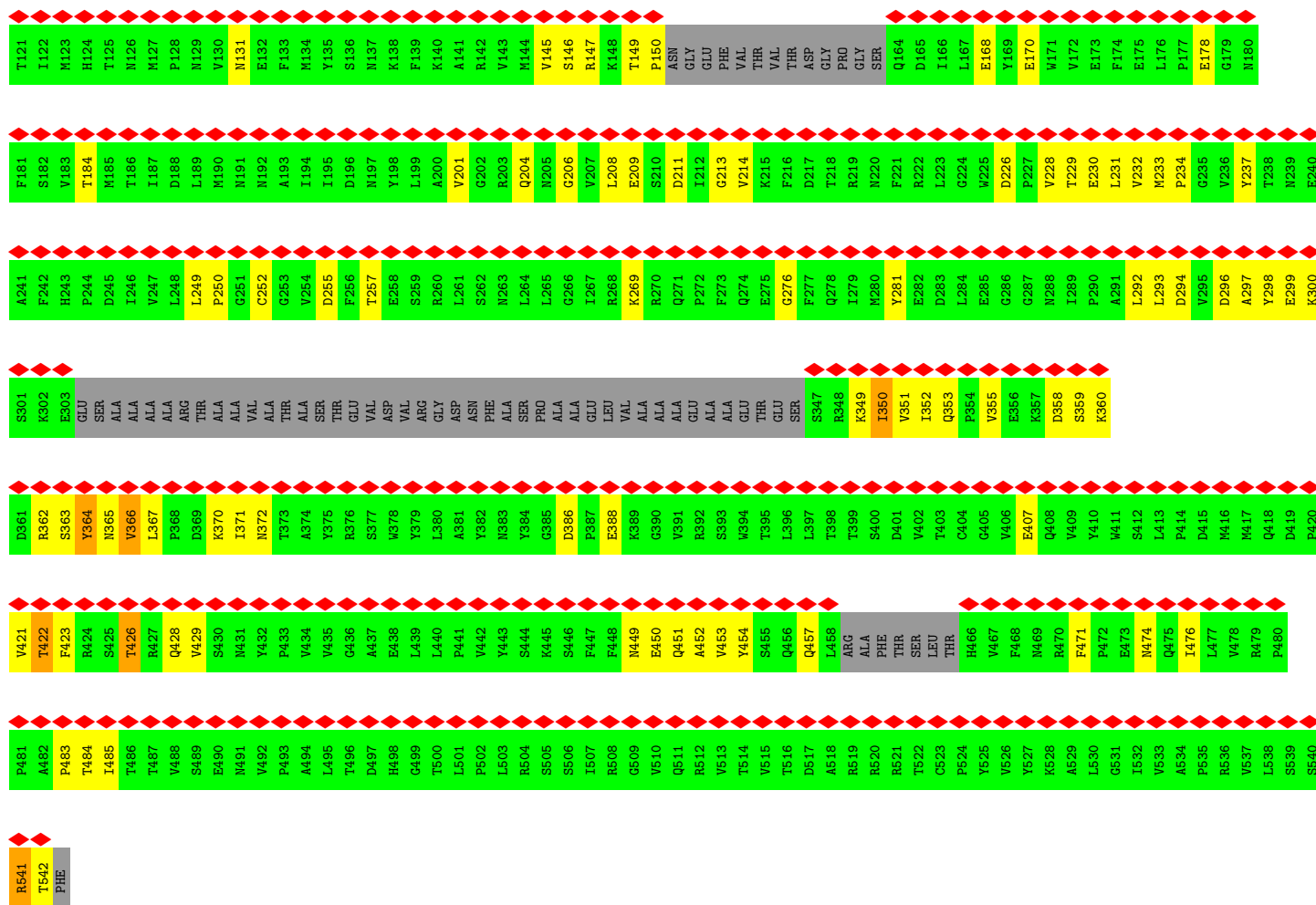


Chain 7:

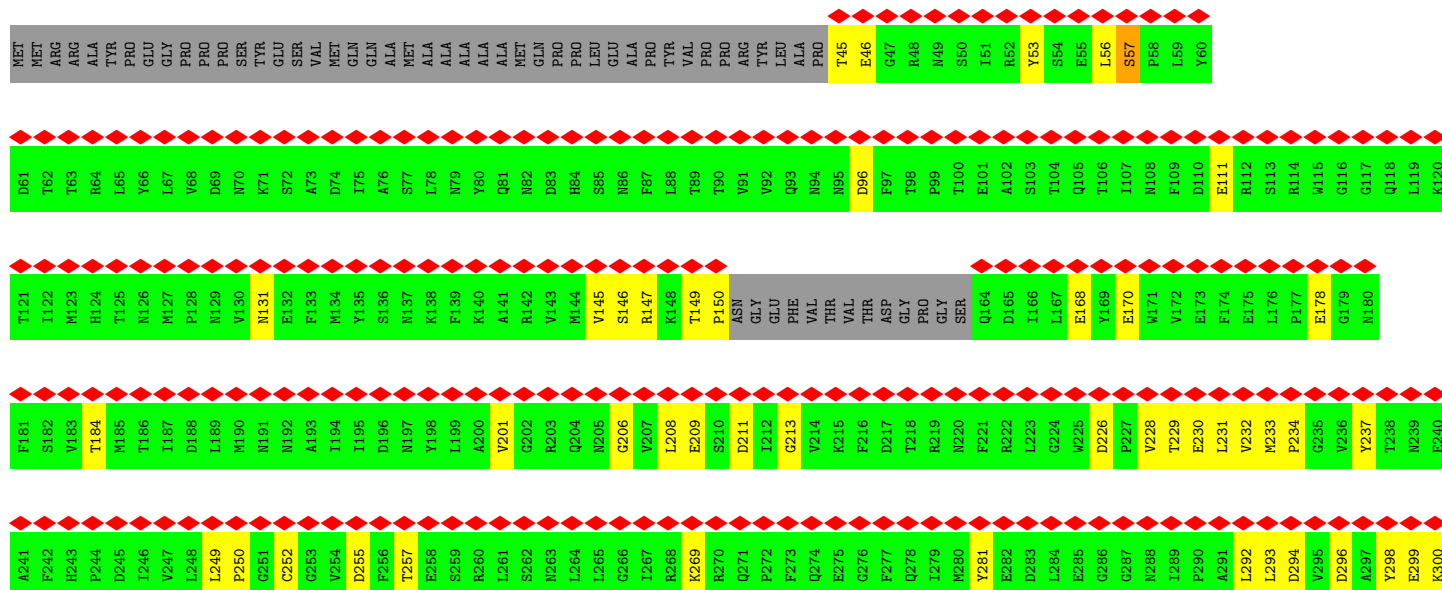
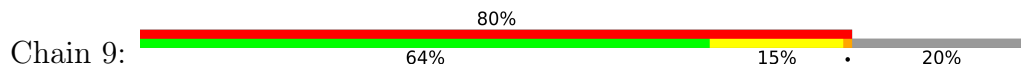


Chain 8:

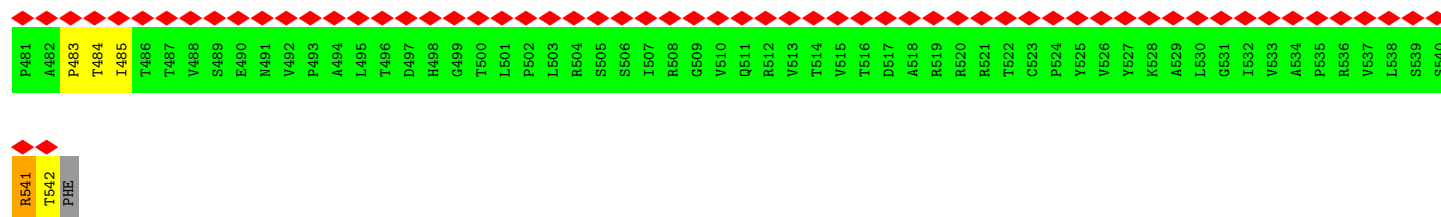




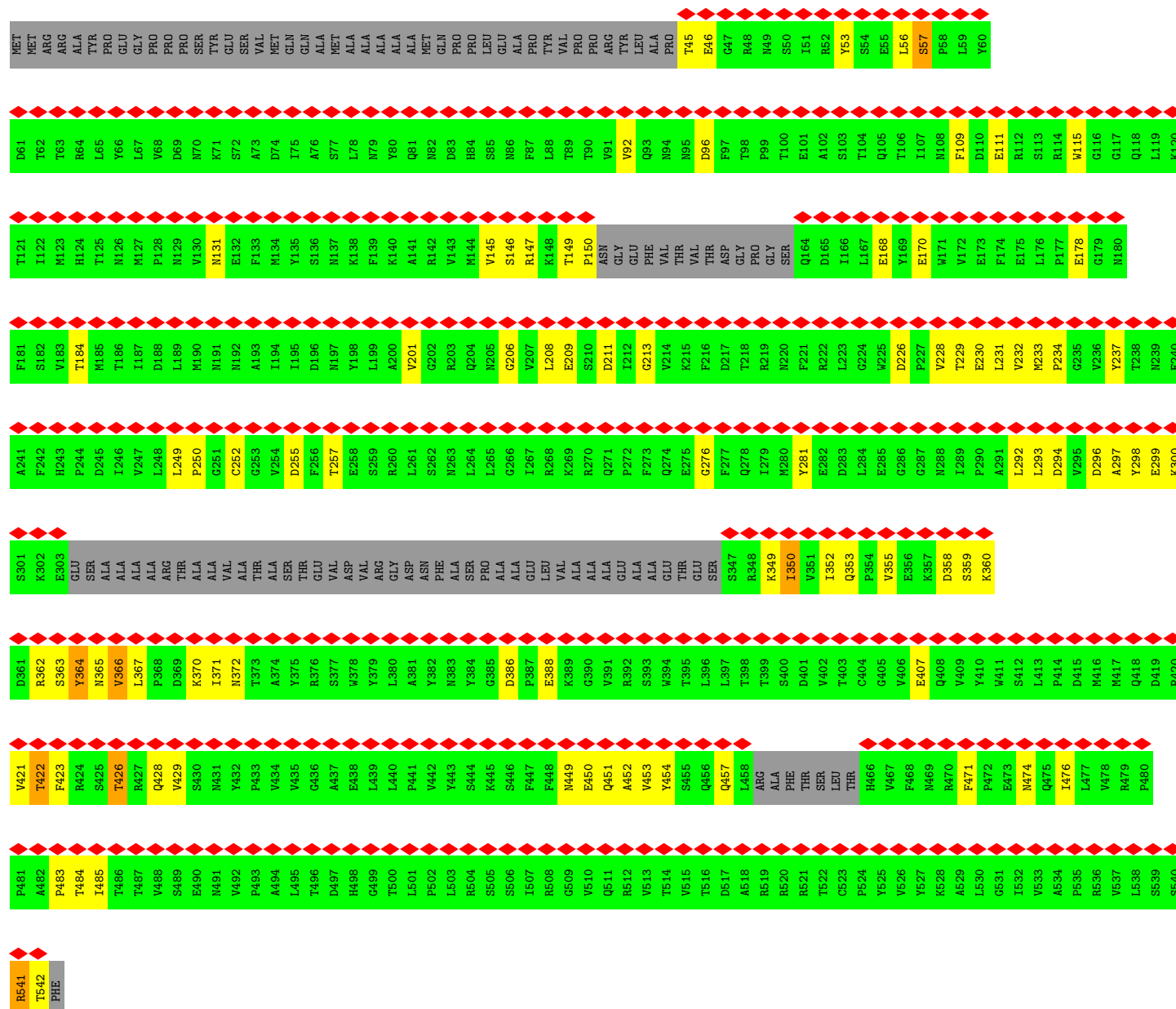
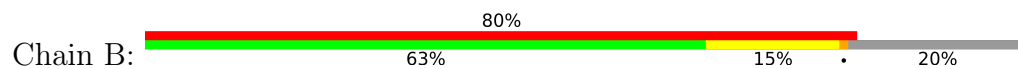
• Molecule 1: Penton protein



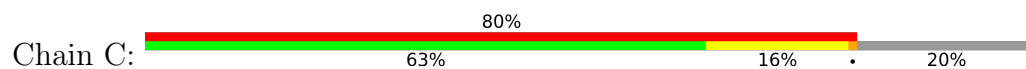




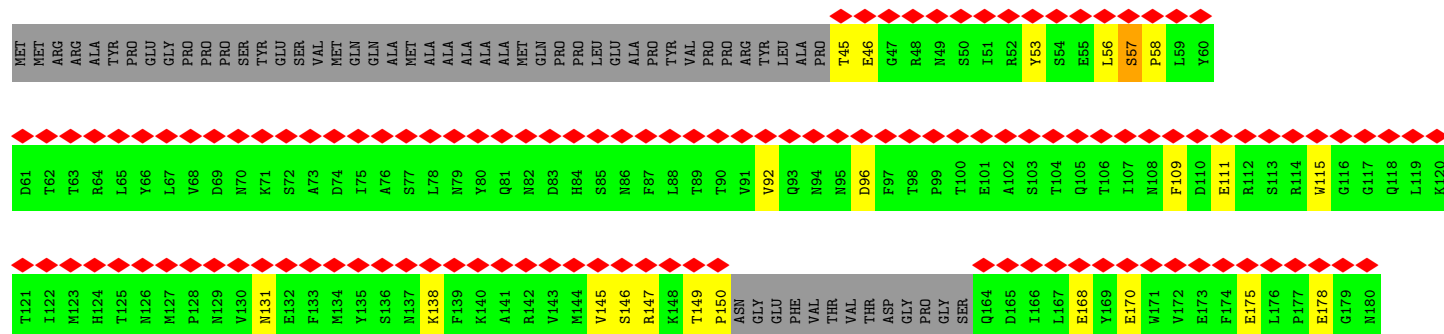
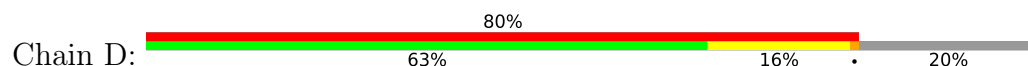
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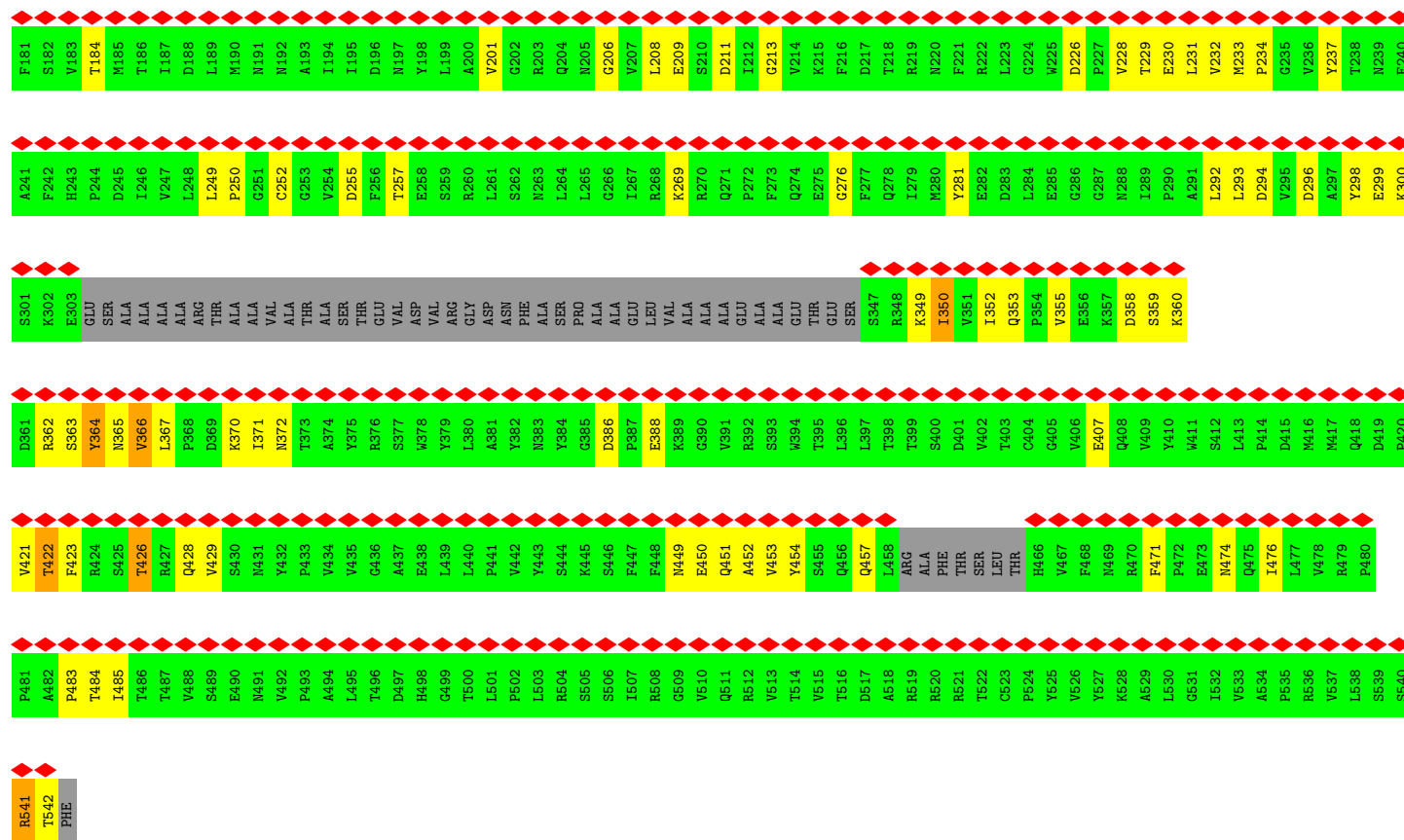


• Molecule 1: Penton protein

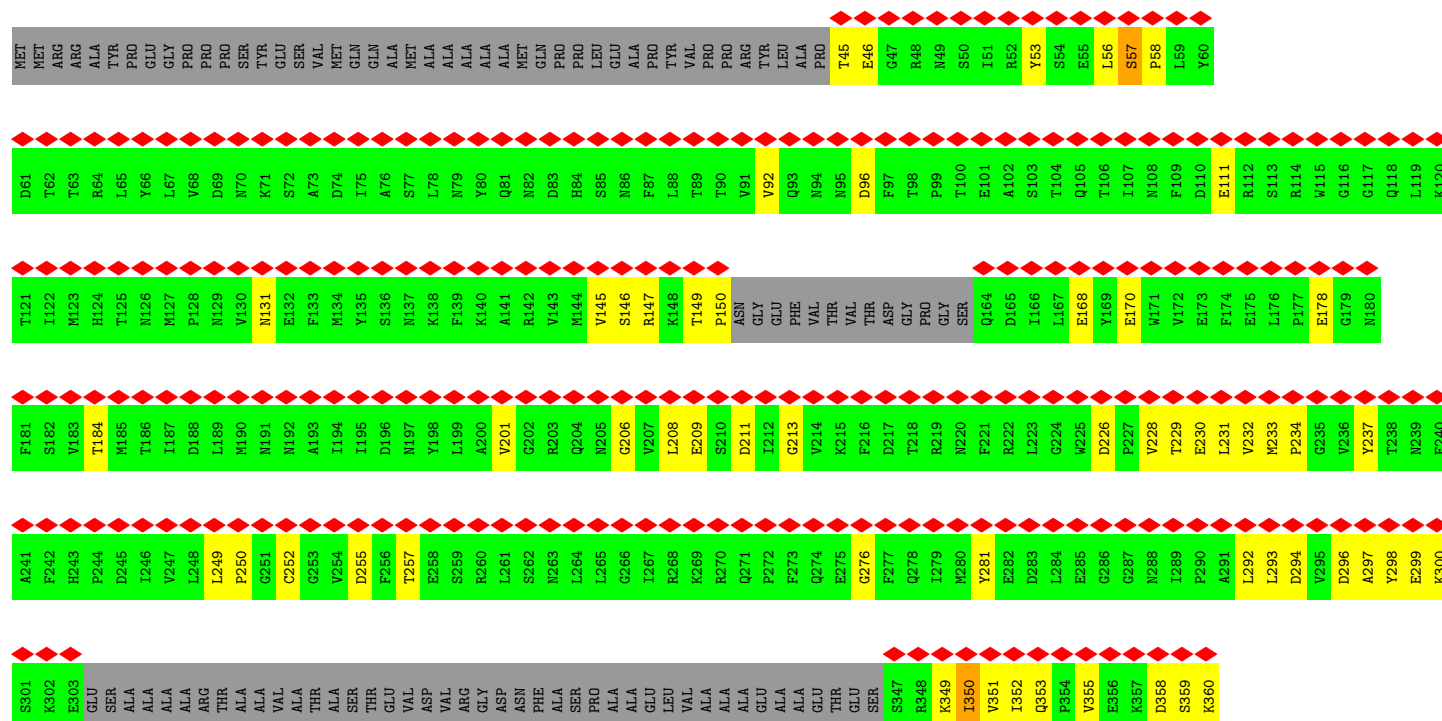
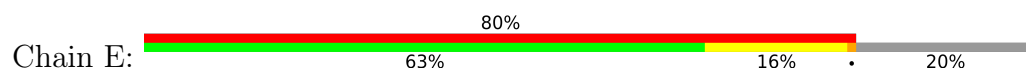


- Molecule 1: Penton protein



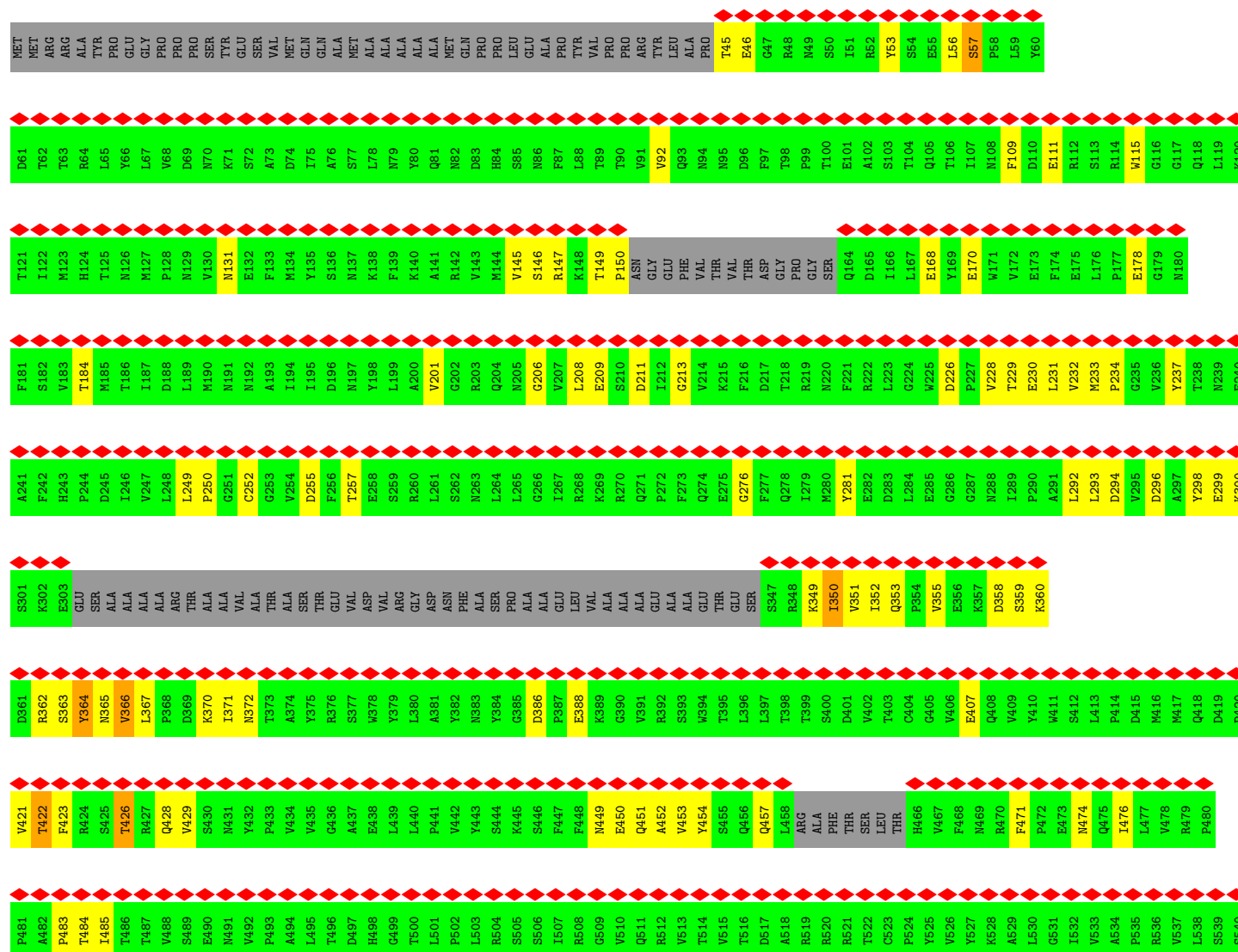
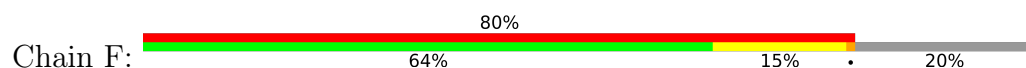


• Molecule 1: Penton protein



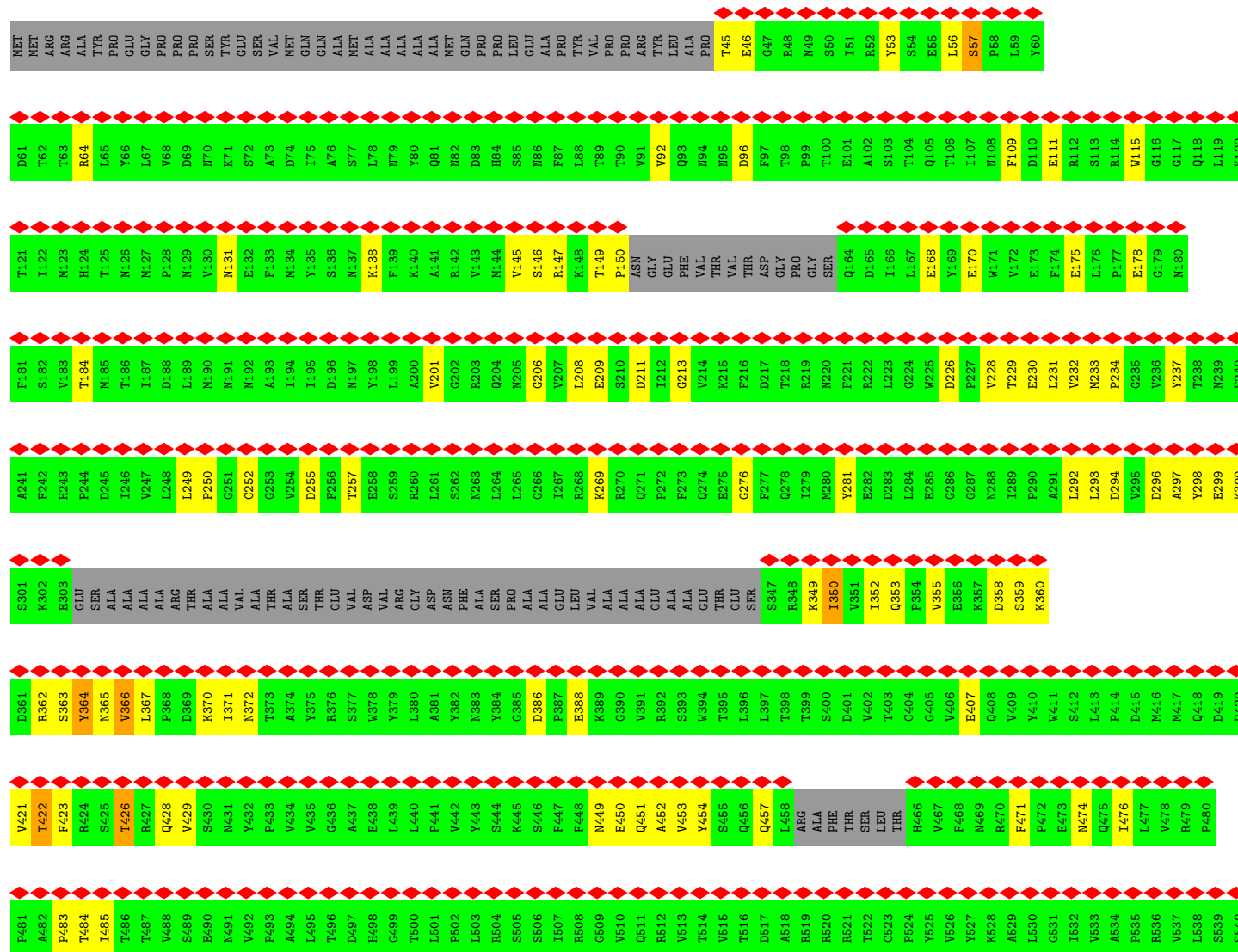
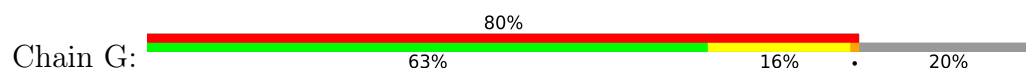


• Molecule 1: Penton protein

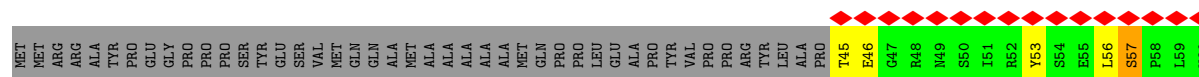




• Molecule 1: Penton protein

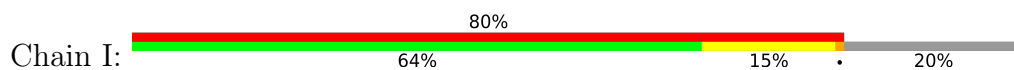


• Molecule 1: Penton protein

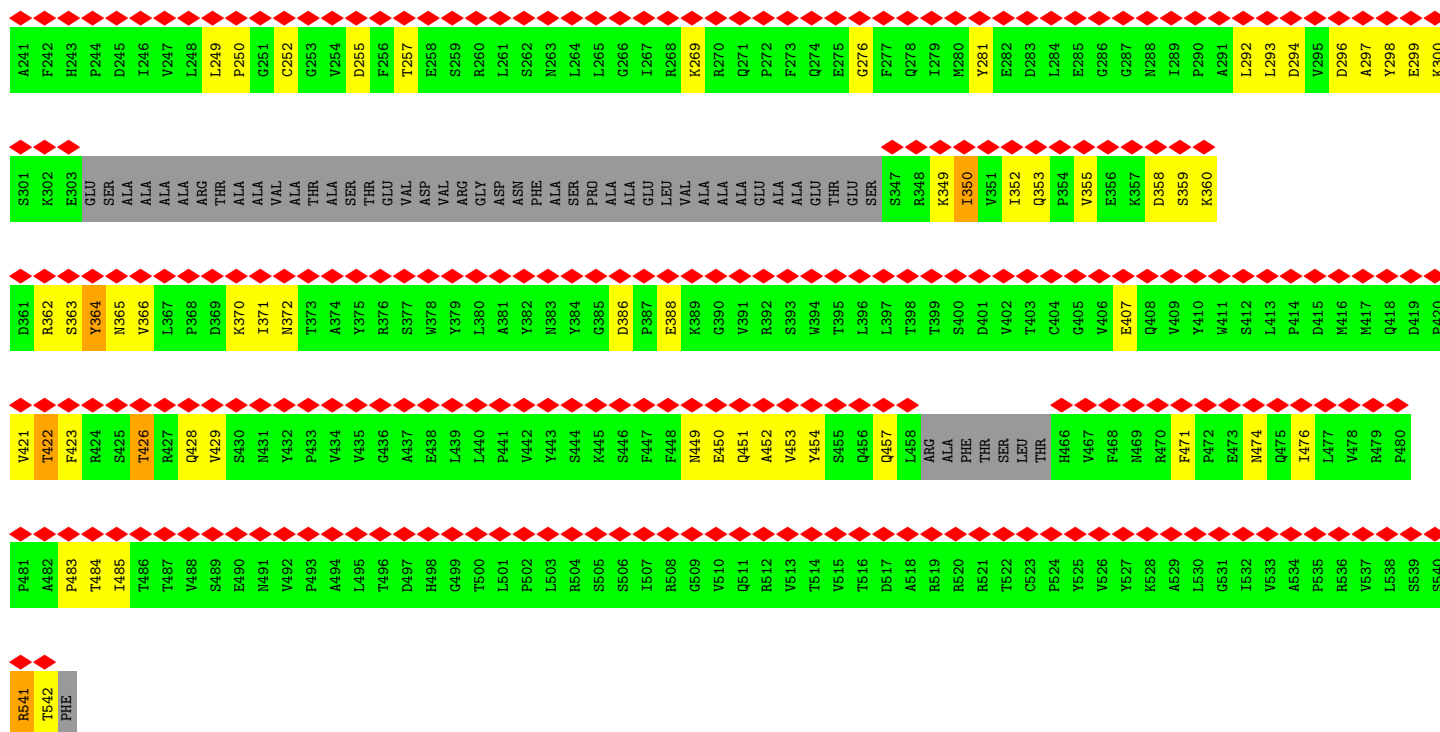


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T62	I122	S182	F242	K302	R362	T422	A482	T542
T63	M123	V183	H243	E303	S363	F423	P483	PHE
R64	H124	T184	P244	GLU	Y364	R424	T484	
L65	T125	M185	D245	SER	N365	S425	I485	
V66	M126	T186	I246	ALA	V366	T426	T486	
L67	M127	I187	V247	ALA	L367	R427	T487	
V68	P128	D188	L248	ALA	P368	Q428	V488	
D69	M129	L189	L249	ARG	D369	Q429	S489	
N70	V130	M190	P250	THR	K370	V429	E490	
K71	N131	N191	G251	ALA	I371	S430	N491	
S72	E132	N192	C252	VAL	N372	M431	V492	
A73	F133	A193	G253	ALA	T373	P432	A493	
D74	M134	I194	V254	THR	A374	V434	A494	
I75	Y135	I195	D255	SER	Y375	V435	L495	
A76	S136	D196	F256	THR	R376	G436	T496	
S77	K137	Y197	T257	GLU	S377	A437	D497	
L78	N138	Y198	E258	VAL	W378	E438	H498	
N79	F139	L199	S259	ASP	Y379	L439	G499	
Y80	K140	A200	R260	ARG	L380	L440	T500	
Q81	A141	V201	L261	GLY	A381	P441	L501	
N82	R142	G202	S262	ASN	Y382	V442	P502	
D83	V143	R203	N263	ASP	N383	Y443	L503	
H84	M144	Q204	L264	ALA	Y384	S444	R504	
S85	V145	N205	L265	SER	G385	K445	S505	
N86	S146	G206	G266	PRO	D386	S446	S506	
F87	R147	V207	I267	ALA	P387	F447	L507	
L88	K148	L208	R268	GLU	E388	F448	R508	
T89	T149	E209	K269	LEU	K389	M449	G509	
T90	P150	S210	R270	VAL	G390	E450	V510	
V91	ASN	D211	Q271	ALA	V391	Q451	Q511	
V92	GLY	I212	P272	ALA	R392	A452	R512	
Q93	PHE	G213	F273	GLU	S393	V453	V513	
N94	VAL	V214	Q274	ALA	W394	V454	T514	
N95	THR	K215	E275	GLU	T395	S455	V515	
D96	VAL	F216	G276	THR	L396	Q456	T516	
F97	THR	D217	F277	SER	L397	Q457	D517	
T98	ASP	T218	Q278	R347	T398	L458	A518	
P99	PRO	R219	I279	R348	T399	ARG	R519	
T100	GLY	R219	Y281	K349	S400	ALA	R520	
E101	SER	F221	E282	I350	D401	PHE	R521	
A102	Q164	R222	E283	V351	V402	THR	T522	
S103	D165	L223	D283	I352	T403	SER	C523	
T104	I166	G224	L284	Q353	C404	LEU	P524	
Q105	L167	W225	E285	P354	G405	THR	V525	
T106	E168	D226	G286	V355	V406	H466	V526	
I107	Y169	P227	G287	E356	E407	V467	Y527	
N108	E170	V228	N288	K357	Q408	M469	K528	
F109	W171	T229	I289	D358	V409	R470	A529	
D110	V172	E230	P290	S359	Y410	F471	L530	
E111	F173	L231	A291	K360	W411	P472	G531	
R112	F174	V232	L292		S412	E473	T532	
S113	E175	M233	L293		L413	M474	V533	
R114	P177	P234	D294		P414	Q475	A534	
W115	E178	G235	V295		D415	L476	P535	
G116	G179	V236	D296		M416	L477	R536	
G117	T237	Y237	A297		Q417	V478	V537	
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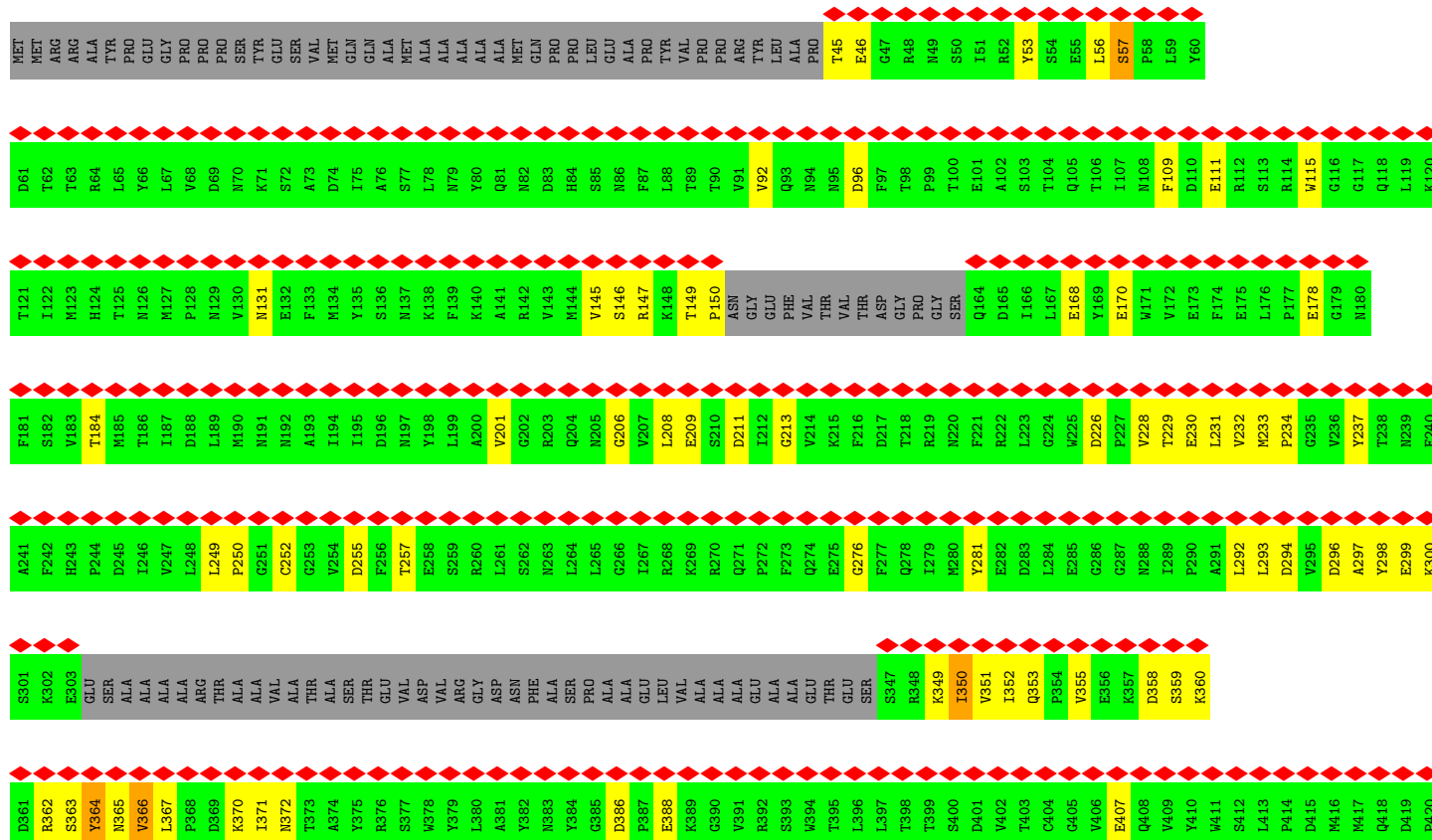
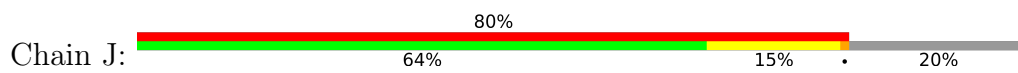
• Molecule 1: Penton protein

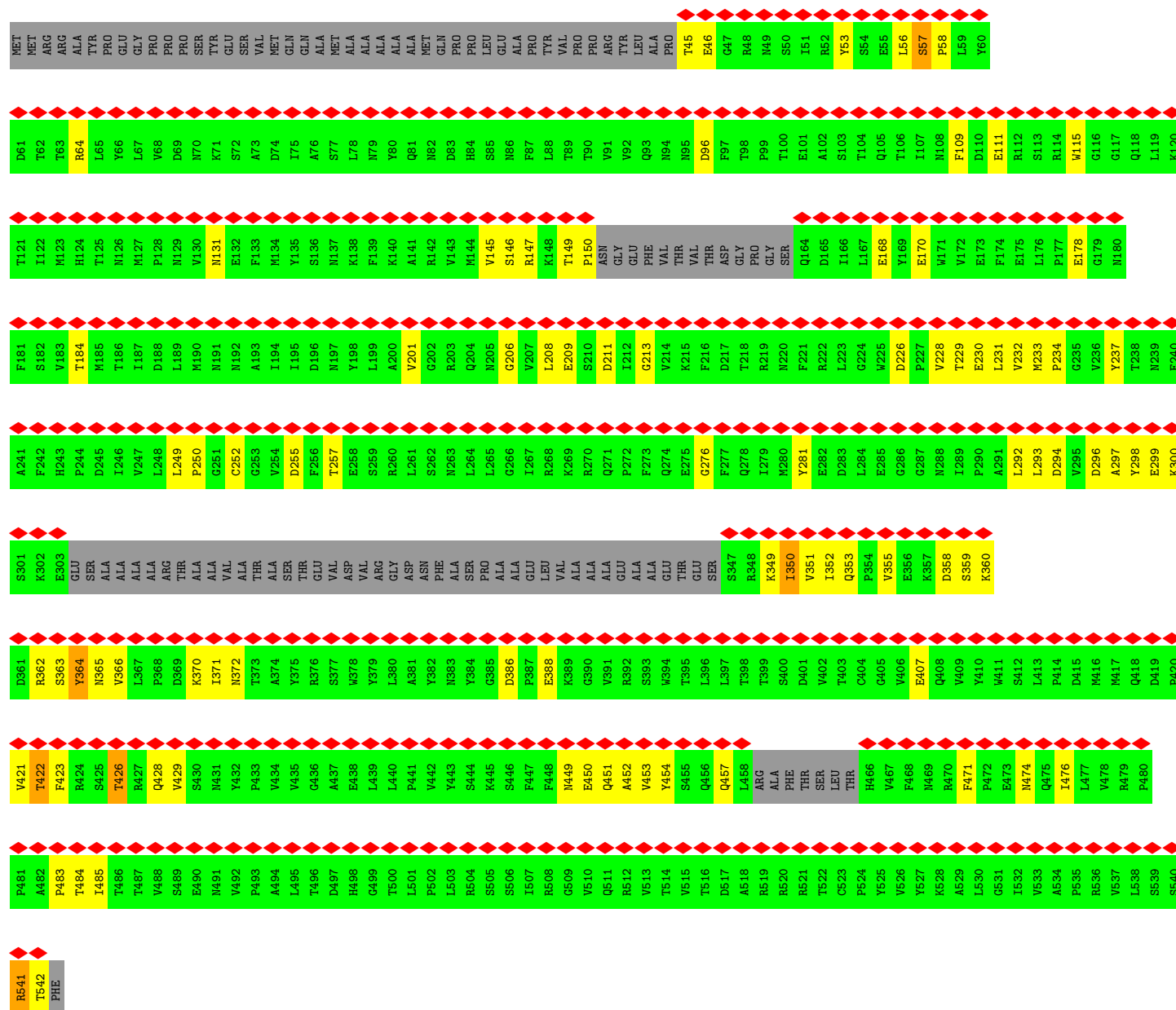


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ARG	T62	I122	S182	ARG	T62	I122	S182
ALA	T63	M123	V183	ALA	T63	M123	V183
TYR	R64	H124	T184	TYR	R64	H124	T184
PRO	L65	T125	M185	PRO	L65	T125	M185
GLY	V66	M126	T186	GLY	V66	M126	T186
PRO	L67	M127	I187	PRO	L67	M127	I187
PRO	V68	P128	D188	PRO	V68	P128	D188
PRO	D69	M129	L189	PRO	D69	M129	L189
SER	N70	V130	M190	SER	N70	V130	M190
TYR	K71	N131	N191	TYR	K71	N131	N191
GLU	S72	E132	N192	GLU	S72	E132	N192
SER	A73	F133	A193	SER	A73	F133	A193
VAL	D74	M134	I194	VAL	D74	M134	I194
MET	I75	Y135	I195	MET	I75	Y135	I195
GLN	A76	S136	D196	GLN	A76	S136	D196
GLN	S77	K137	Y197	GLN	S77	K137	Y197
ALA	L78	N138	Y198	ALA	L78	N138	Y198
ALA	N79	F139	L199	ALA	N79	F139	L199
ALA	Y80	K140	A200	ALA	Y80	K140	A200
ALA	Q81	A141	V201	ALA	Q81	A141	V201
MET	N82	R142	G202	MET	N82	R142	G202
PRO	D83	V143	R203	PRO	D83	V143	R203
PRO	H84	M144	Q204	PRO	H84	M144	Q204
LEU	S85	V145	N205	LEU	S85	V145	N205
GLU	N86	S146	G206	GLU	N86	S146	G206
ALA	F87	R147	V207	ALA	F87	R147	V207
PRO	L88	K148	L208	PRO	L88	K148	L208
TYR	T89	T149	E209	TYR	T89	T149	E209
VAL	T90	P150	S210	VAL	T90	P150	S210
PRO	V91	ASN	D211	PRO	V91	ASN	D211
ARG	V92	GLY	I212	ARG	V92	GLY	I212
TYR	Q93	PHE	G213	TYR	Q93	PHE	G213
LEU	N94	VAL	V214	LEU	N94	VAL	V214
ALA	N95	THR	K215	ALA	N95	THR	K215
PRO	D96	VAL	F216	PRO	D96	VAL	F216
T45	F97	ASP	D217	T45	F97	ASP	D217
E46	T98	THR	T218	E46	T98	THR	T218
G47	R98	PRO	R219	G47	R98	PRO	R219
R48	P99	GLY	N220	R48	P99	GLY	N220
S50	T100	SER	F221	S50	T100	SER	F221
T51	E101	Q164	R222	T51	E101	Q164	R222
R52	A102	D165	L223	R52	A102	D165	L223
Y53	S103	I166	G224	Y53	S103	I166	G224
S54	T104	L167	W225	S54	T104	L167	W225
E55	Q105	E168	D226	E55	Q105	E168	D226
L56	T106	Y169	P227	L56	T106	Y169	P227
S57	I107	E170	V228	S57	I107	E170	V228
F58	N108	W171	T229	F58	N108	W171	T229
L59	F109	V172	E230	L59	F109	V172	E230
Y60	D110	E173	L231	Y60	D110	E173	L231
	E111	F174	V232		E111	F174	V232
	R112	E175	M233		R112	E175	M233
	S113	L176	P234		S113	L176	P234
	R114	P177	G235		R114	P177	G235
	W115	E178	V236		W115	E178	V236
	G116	G179	Y237		G116	G179	Y237
	T238	N239			T238	N239	
	L119				L119		
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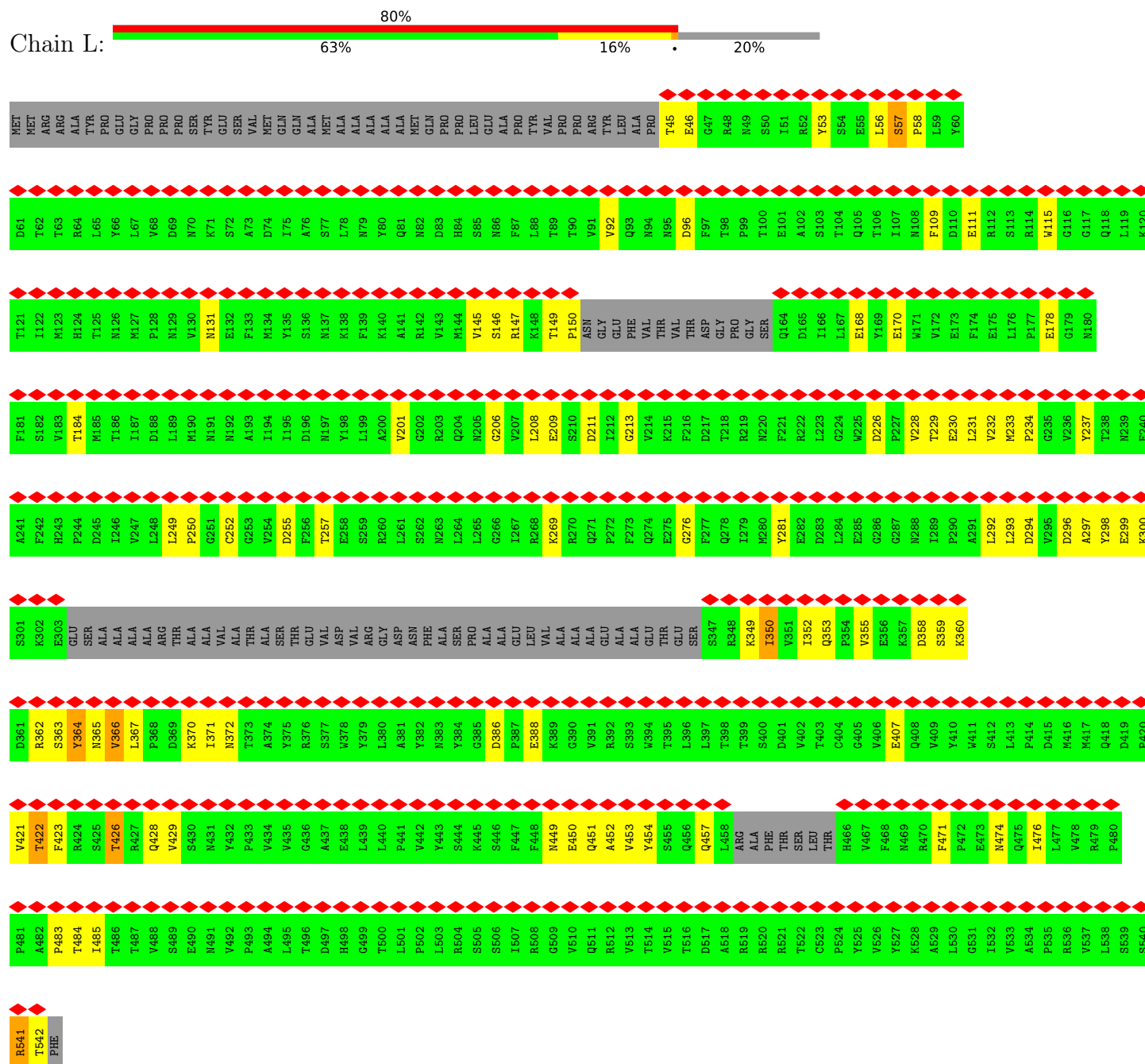
• Molecule 1: Penton protein





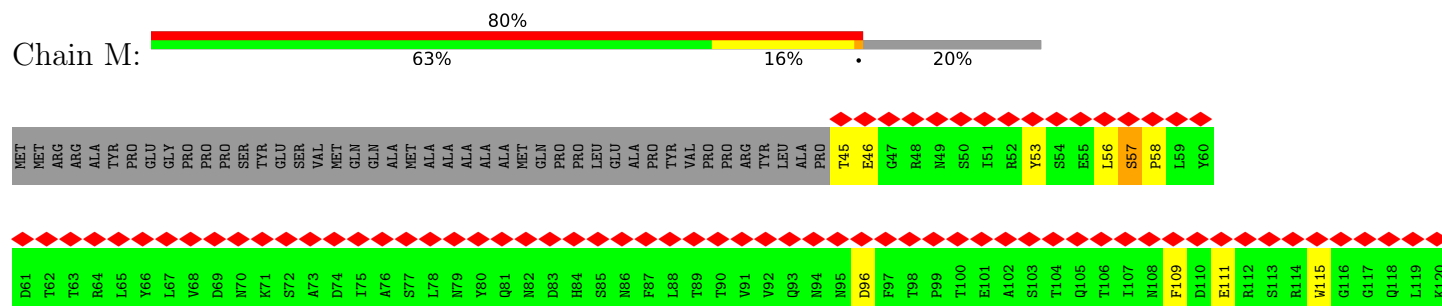
● Molecule 1: Penton protein

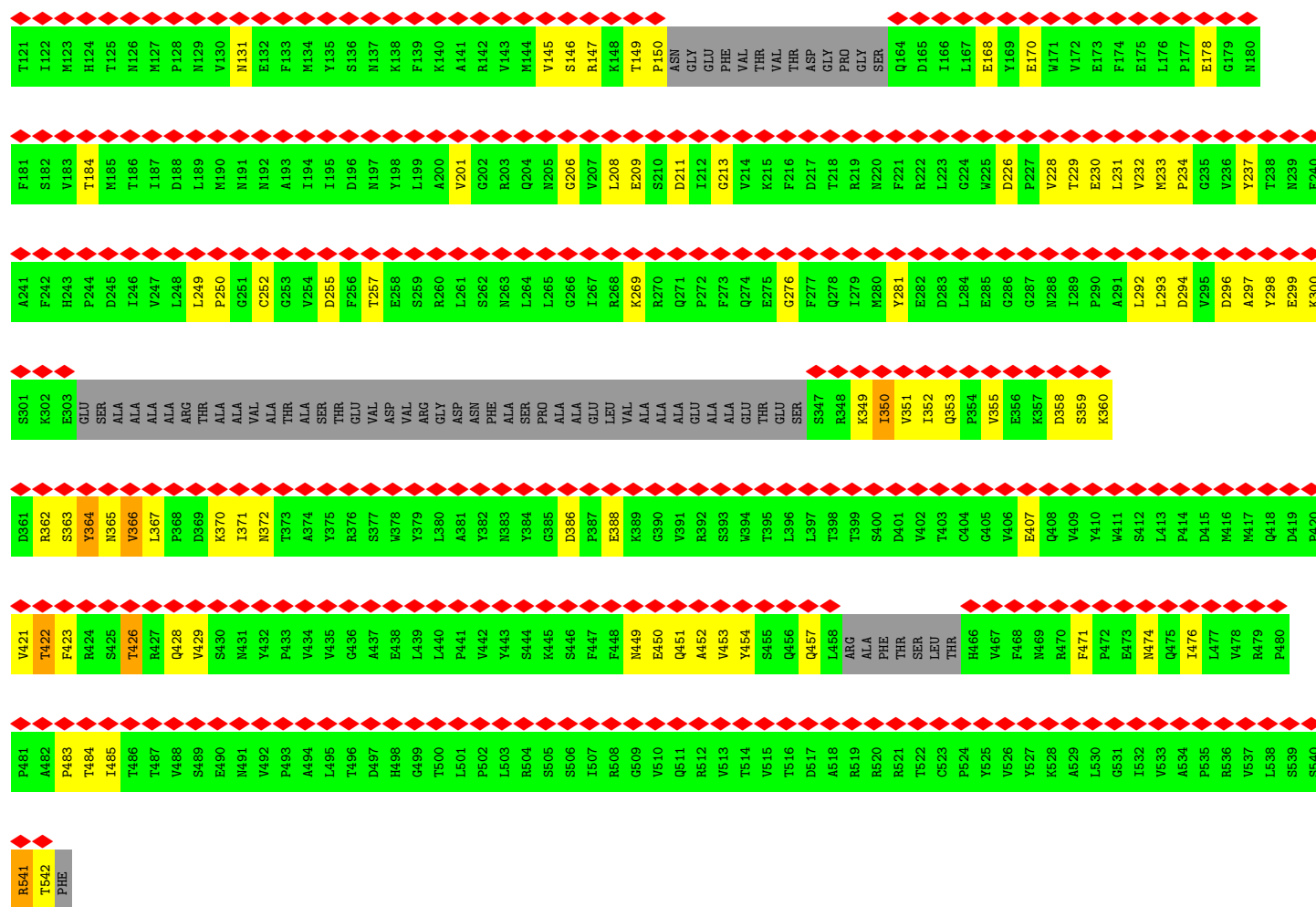
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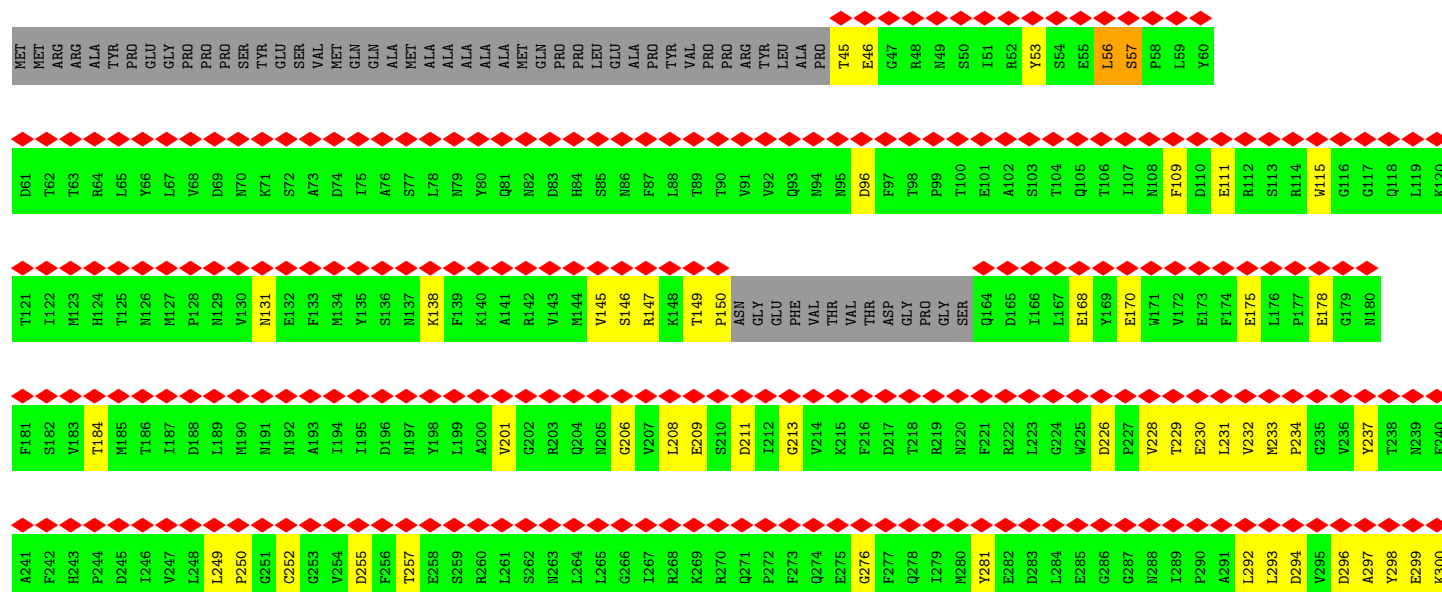
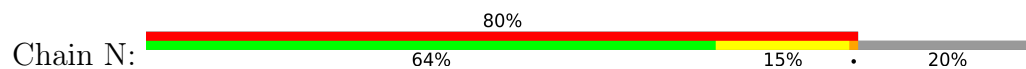
● Molecule 1: Penton protein

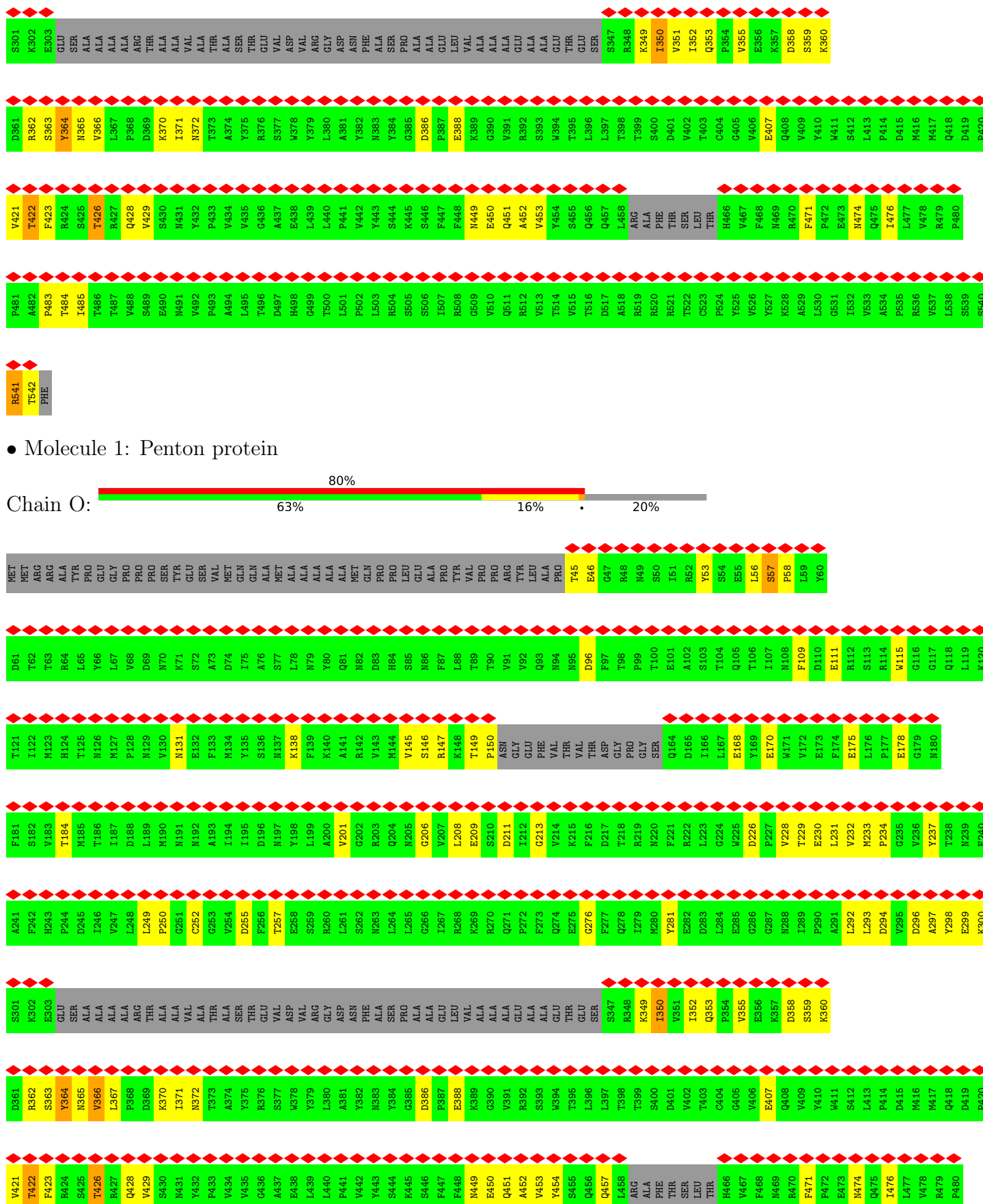
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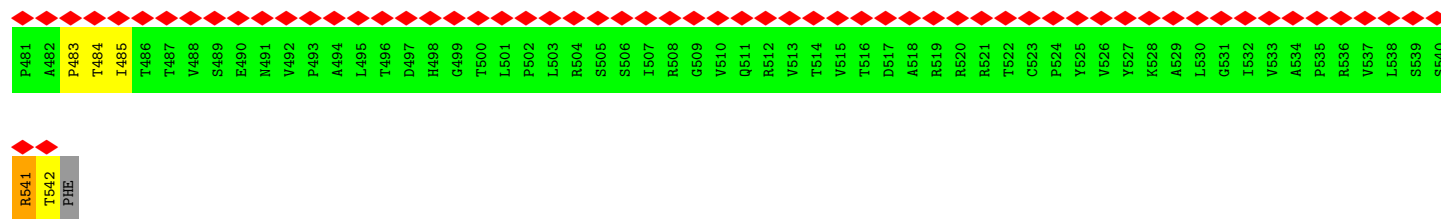




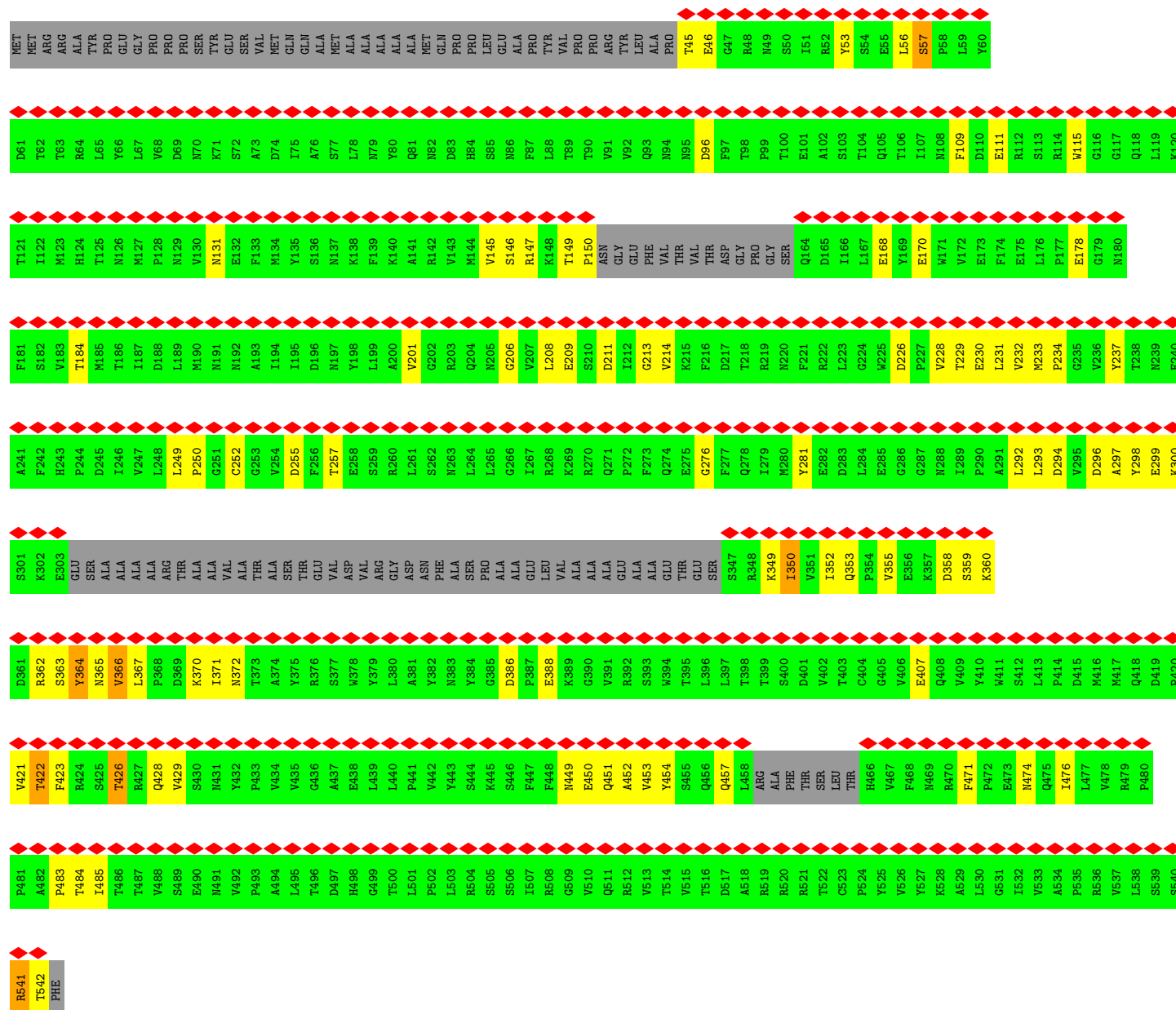
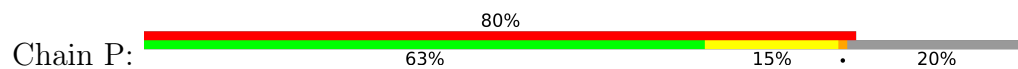
• Molecule 1: Penton protein



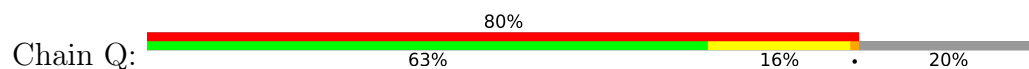




• Molecule 1: Penton protein

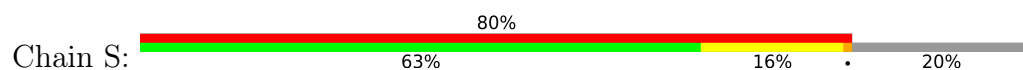


• Molecule 1: Penton protein



F181	A241	S301	D361	V421	P481	R541
S182	F242	K302	R362	T422	A482	T542
V183	H243	E303	S363	F423	P483	PHE
T184	P244	GLU	Y364	R424	T484	
M185	I245	SER	N365	S425	T485	
T186	I246	ALA	V366	T426	T486	
I187	V247	ALA	L367	R427	T487	
D188	L248	ALA	P368	Q428	V488	
L189	L249	ARG	D369	V429	S489	
M190	P250	THR	K370	S430	E490	
N191	G251	ALA	I371	N431	M491	
N192	C252	VAL	N372	Y432	V492	
A193	G253	ALA	T373	P433	P493	
I194	V254	THR	A374	V434	A494	
I195	D255	SER	Y375	V435	L495	
D196	F256	THR	R376	G436	T496	
N197	T257	GLU	S377	A437	D497	
Y198	E258	VAL	W378	E438	H498	
L199	S259	VAL	Y379	L439	G499	
A200	R260	ARG	L380	L440	T500	
V201	L261	GLY	A381	P441	L501	
G202	S262	ASP	Y382	V442	P502	
R203	N263	ASN	N383	Y443	L503	
Q204	L264	ALA	Y384	S444	R504	
N205	L265	SER	D385	K445	S505	
G206	G266	PRO	D386	S446	S506	
V207	I267	ALA	P387	F447	I507	
L208	R268	GLU	E388	F448	R508	
E209	K269	LEU	K389	N449	G509	
S210	R270	VAL	G390	E450	V510	
D211	Q271	ALA	V391	Q451	Q511	
I212	P272	ALA	R392	A452	R512	
G213	F273	GLU	S393	V453	V513	
V214	Q274	ALA	W394	V454	T514	
K215	E275	GLU	T395	S455	V515	
F216	G276	THR	L396	Q456	T516	
D217	F277	GLU	L397	Q457	D517	
T218	Q278	SER	T398	L458	A518	
R219	I279	R347	T399	ARG	R519	
N220	M280	R348	S400	ALA	R520	
F221	Y281	I360	D401	PHE	R521	
R222	E282	V351	V402	THR	T522	
L223	D283	R352	T403	SER	C523	
G224	L284	Q353	C404	LEU	P524	
W225	E285	P354	G405	THR	Y525	
D226	G286	V355	V406	H466	V526	
P227	G287	E356	E407	V467	Y527	
V228	N288	K357	Q408	F468	K528	
T229	I289	D358	V409	N469	A529	
E230	P290	S359	Y410	R470	L530	
L231	A291	K360	W411	F471	P472	
M233	L292		S412	E472	N474	
P234	L293		L413	Q475	E473	
D294	D294		D415	I476	I532	
G235	V295		M416	L477	V533	
V236	D296		M417	V478	A534	
Y237	A297		Q418	R479	P535	
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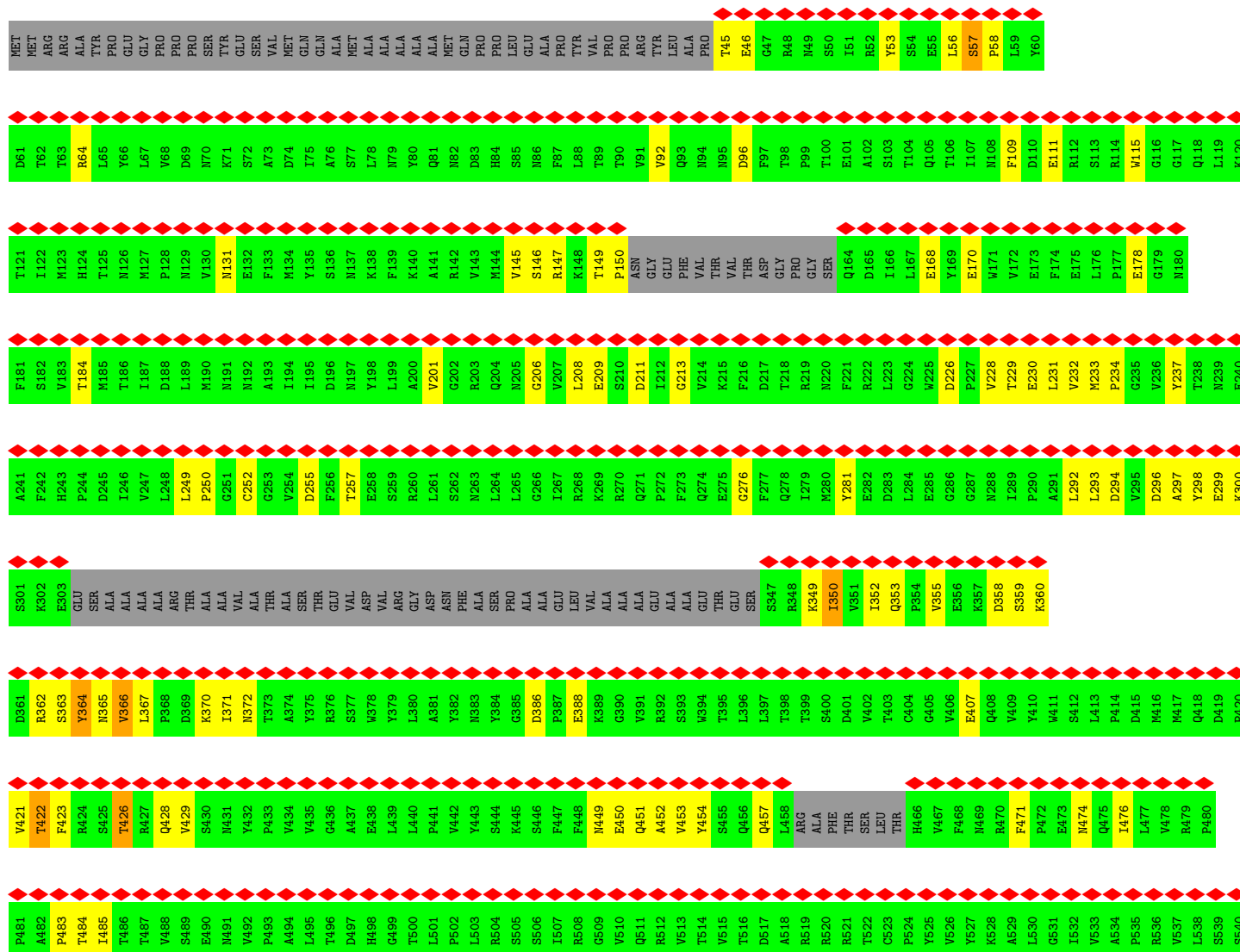
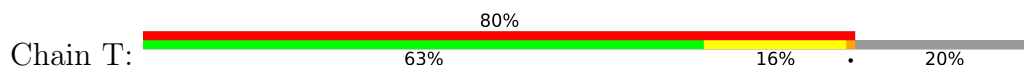
• Molecule 1: Penton protein



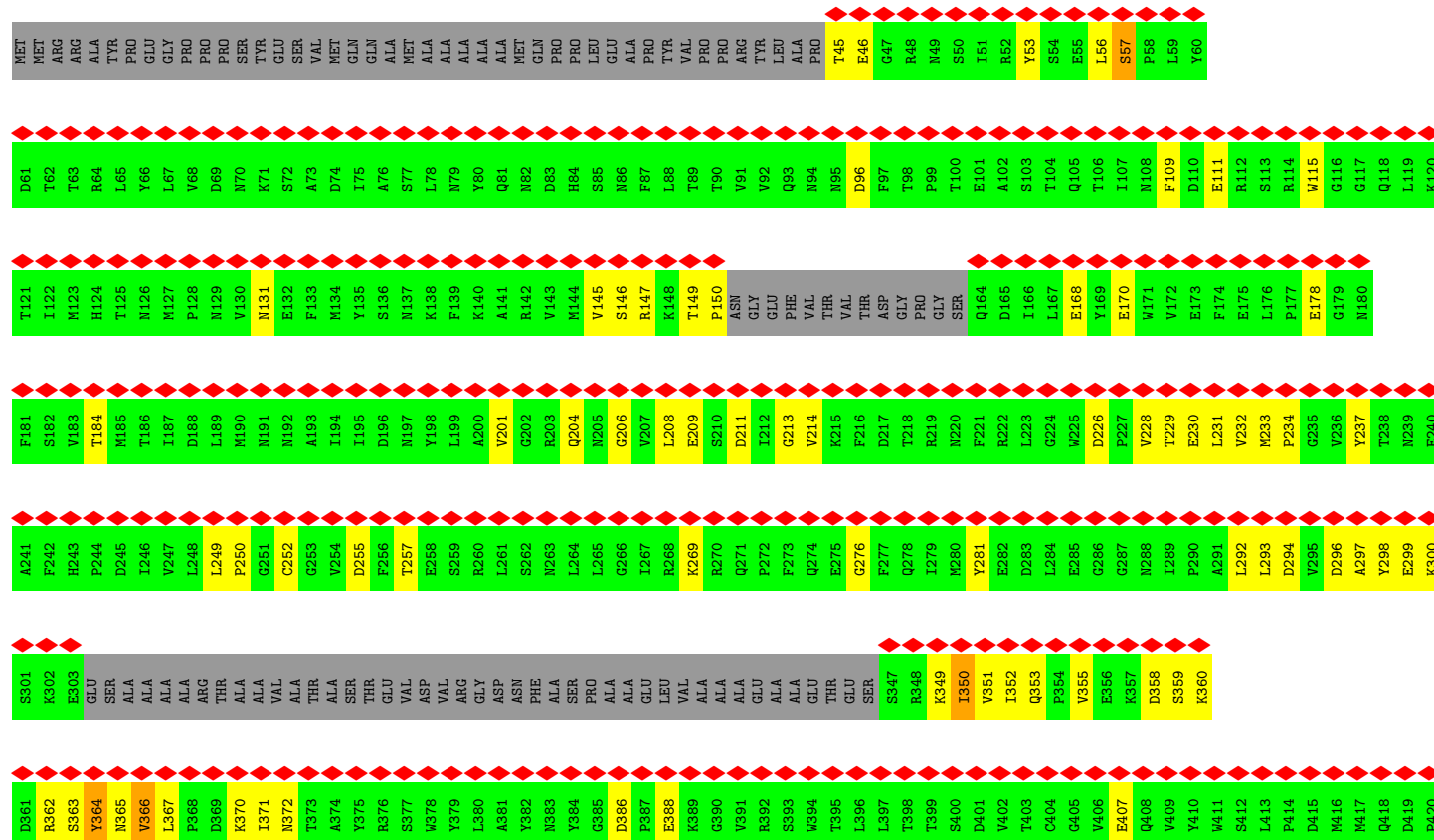
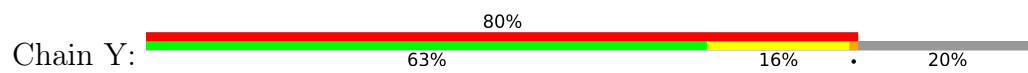
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MET	T62	I122	S182	F242	K302
ARG	T63	M123	V183	H243	E303
ALA	R64	H124	T184	P244	GLU
TYR	L65	T125	M185	I245	SER
PRO	V66	M126	T186	I246	ALA
GLY	L67	M127	I187	V247	ALA
PRO	V68	P128	D188	L248	ALA
PRO	D69	M129	L189	L249	ARG
PRO	N70	V130	M190	P250	THR
SER	K71	M131	N191	G251	ALA
TYR	S72	E132	N192	C252	ALA
GLU	D73	F133	A193	G253	THR
VAL	A74	M134	I194	V254	ALA
MET	D75	M135	I195	D255	ALA
GLN	I76	Y136	D196	F256	SER
GLN	A76	S136	N197	T257	THR
ALA	S77	M137	Y198	E258	GLU
ALA	L78	K138	L199	S259	VAL
ALA	N79	F139	A200	R260	VAL
ALA	Q81	K140	V201	L261	GLY
ALA	N82	A141	G202	S262	ASP
GLN	D83	R142	R203	N263	ASN
PRO	H84	V143	Q204	L264	ALA
LEU	S85	M144	N205	L265	SER
LEU	N86	V145	G206	G266	PRO
ALA	F87	S146	V207	I267	ALA
ALA	R88	R147	L208	R268	GLU
TYR	T89	K148	E209	K269	LEU
VAL	T90	P150	S210	R270	VAL
PRO	V91	ASN	D211	Q271	ALA
PRO	V92	GLY	I212	P272	ALA
ARG	Q93	GLU	G213	F273	GLU
LEU	N94	PHE	V214	Q274	ALA
ALA	N95	VAL	K215	E275	GLU
PRO	D96	THR	F216	G276	THR
T45	F97	VAL	D217	F277	SER
E46	T98	THR	T218	Q278	R347
G47	P99	ASP	R219	I279	R348
R48	T100	GLY	N220	M280	K349
R49	E101	GLY	F221	Y281	I360
S50	A102	SER	R222	E282	V351
I51	S103	THR	L223	D283	R352
R52	T104	D165	G224	L284	Q353
Y53	Q105	I166	W225	E285	P354
S54	T106	L167	D226	G286	V355
E55	I107	E168	P227	G287	E356
L56	M108	Y169	V228	N288	K357
S57	F109	E170	T229	I289	D358
P58	D110	W171	E230	P290	S359
L59	E111	V172	L231	A291	K360
Y60	R112	F174	V232	L292	
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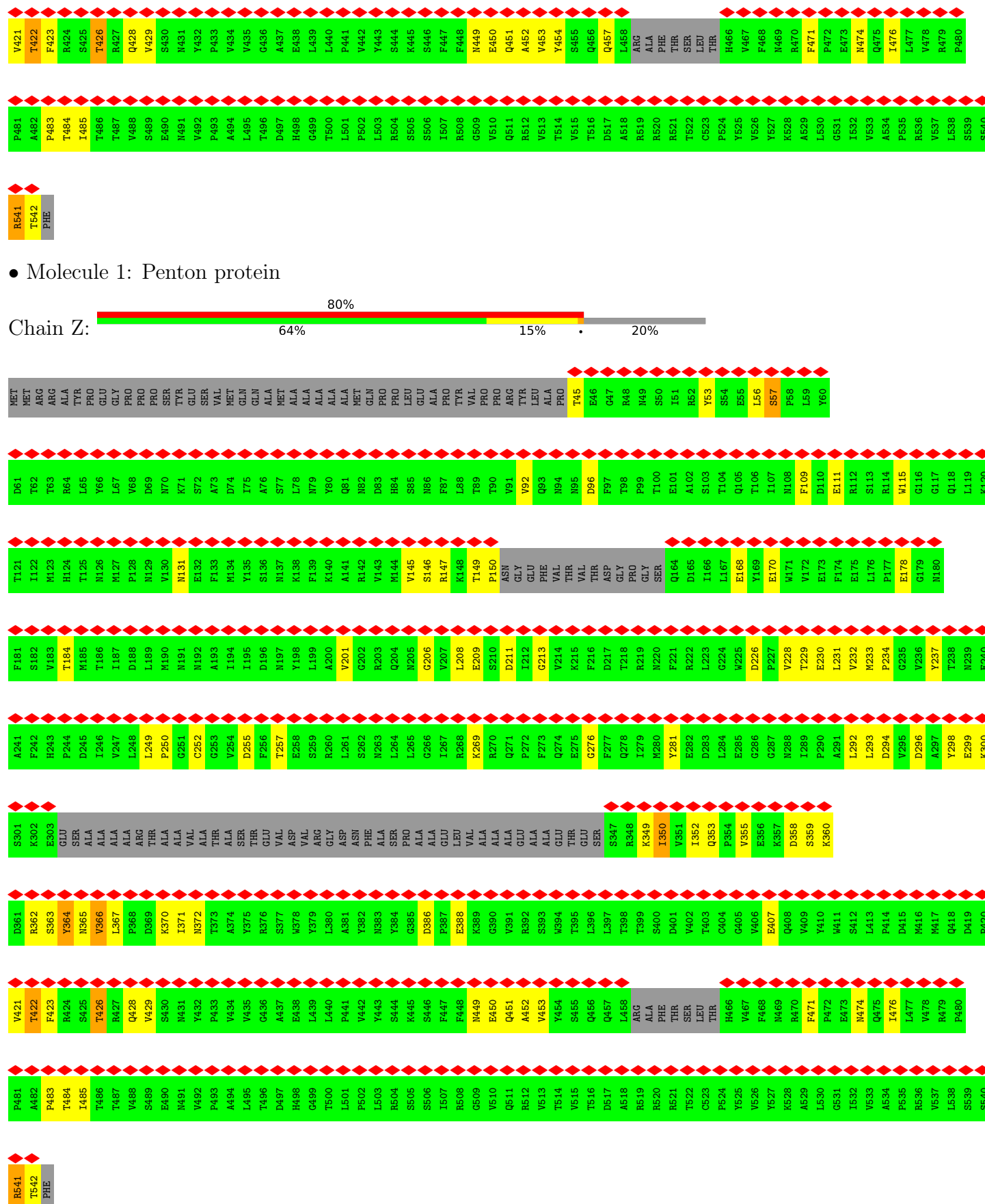


• Molecule 1: Penton protein



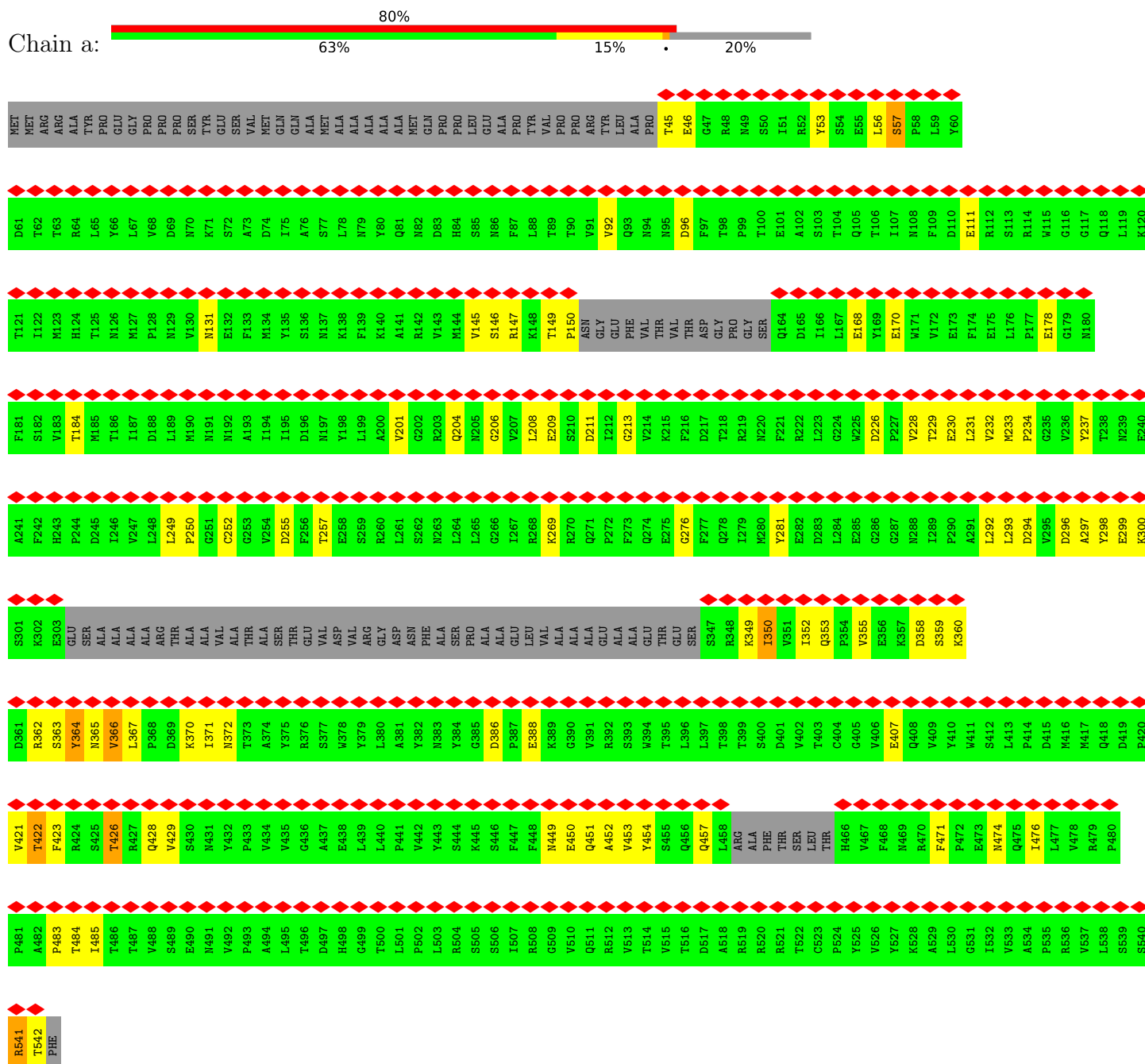
- Molecule 1: Penton protein





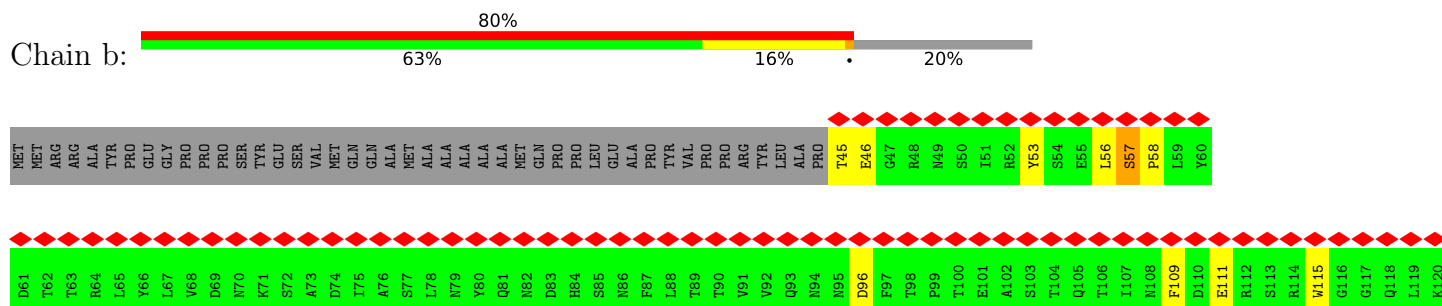
- Molecule 1: Penton protein

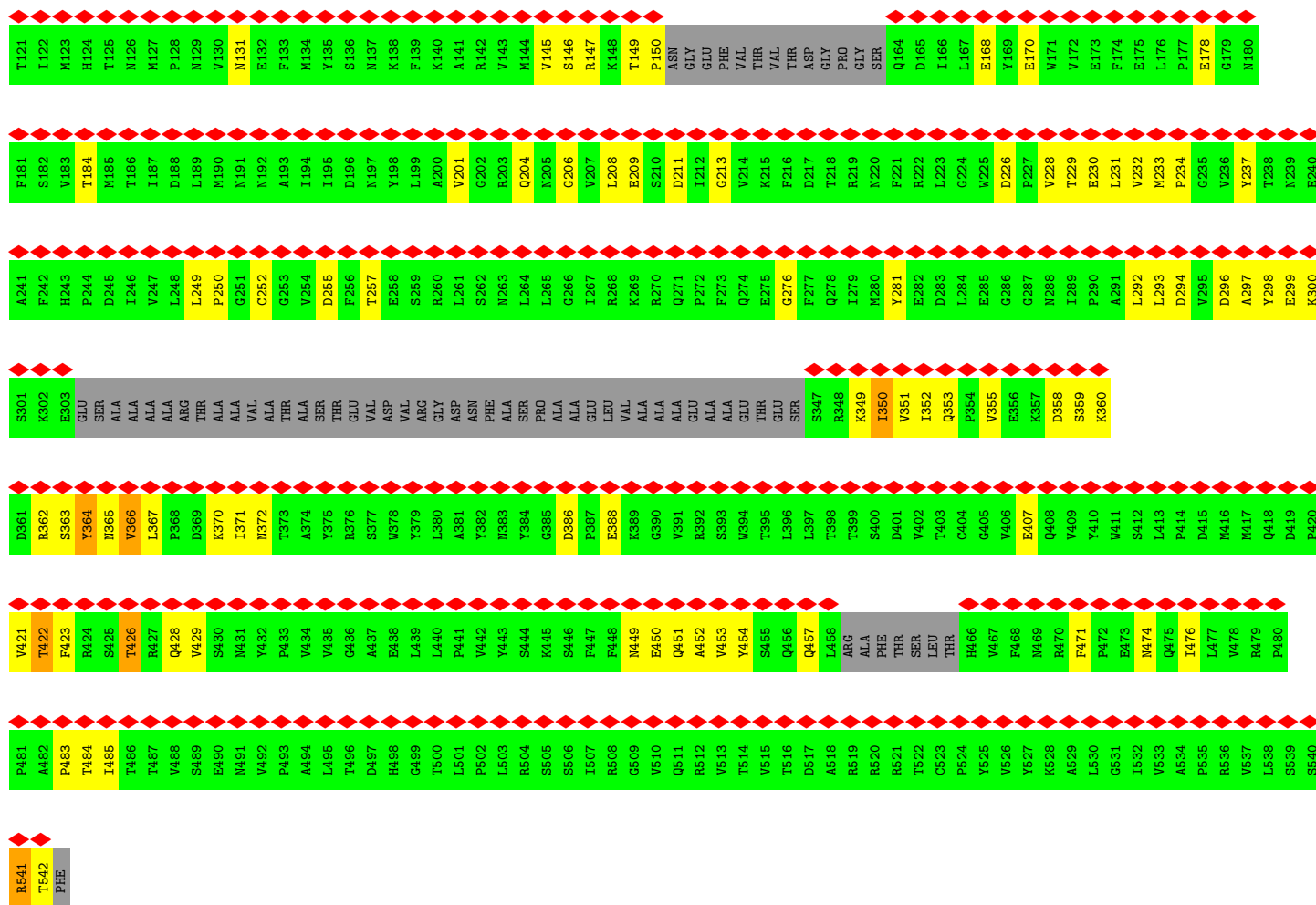
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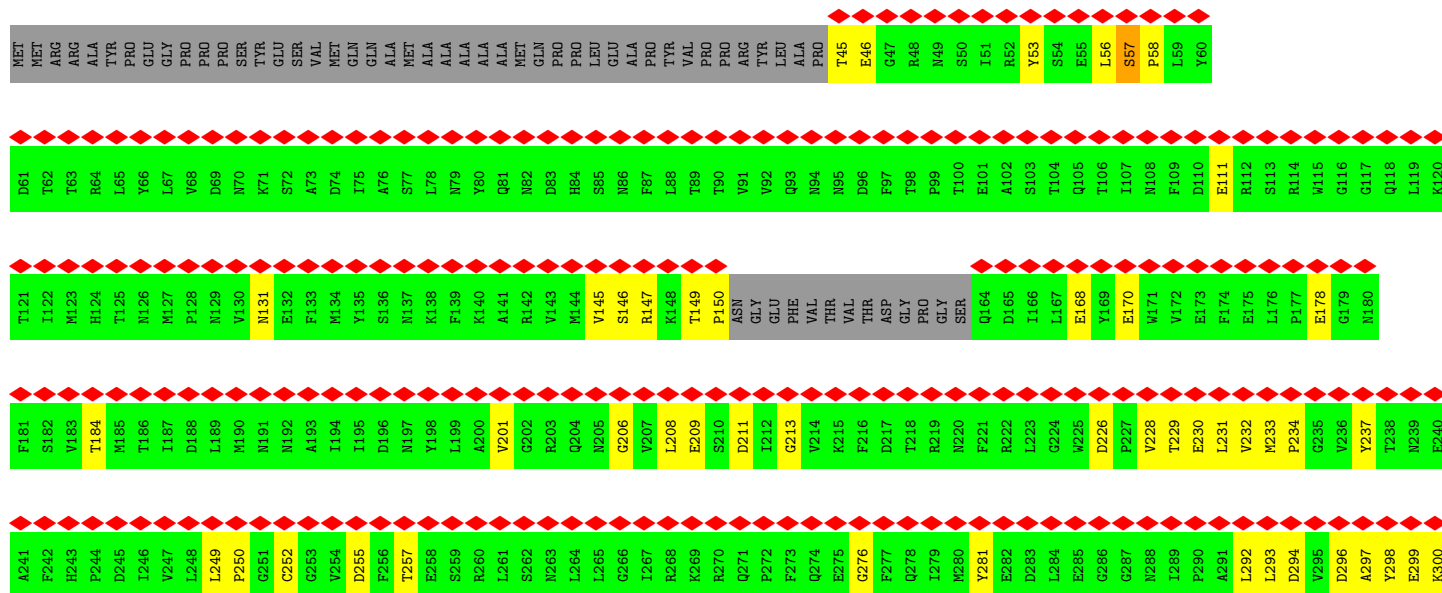
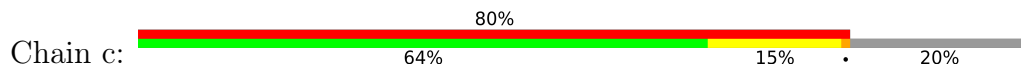
- Molecule 1: Penton protein

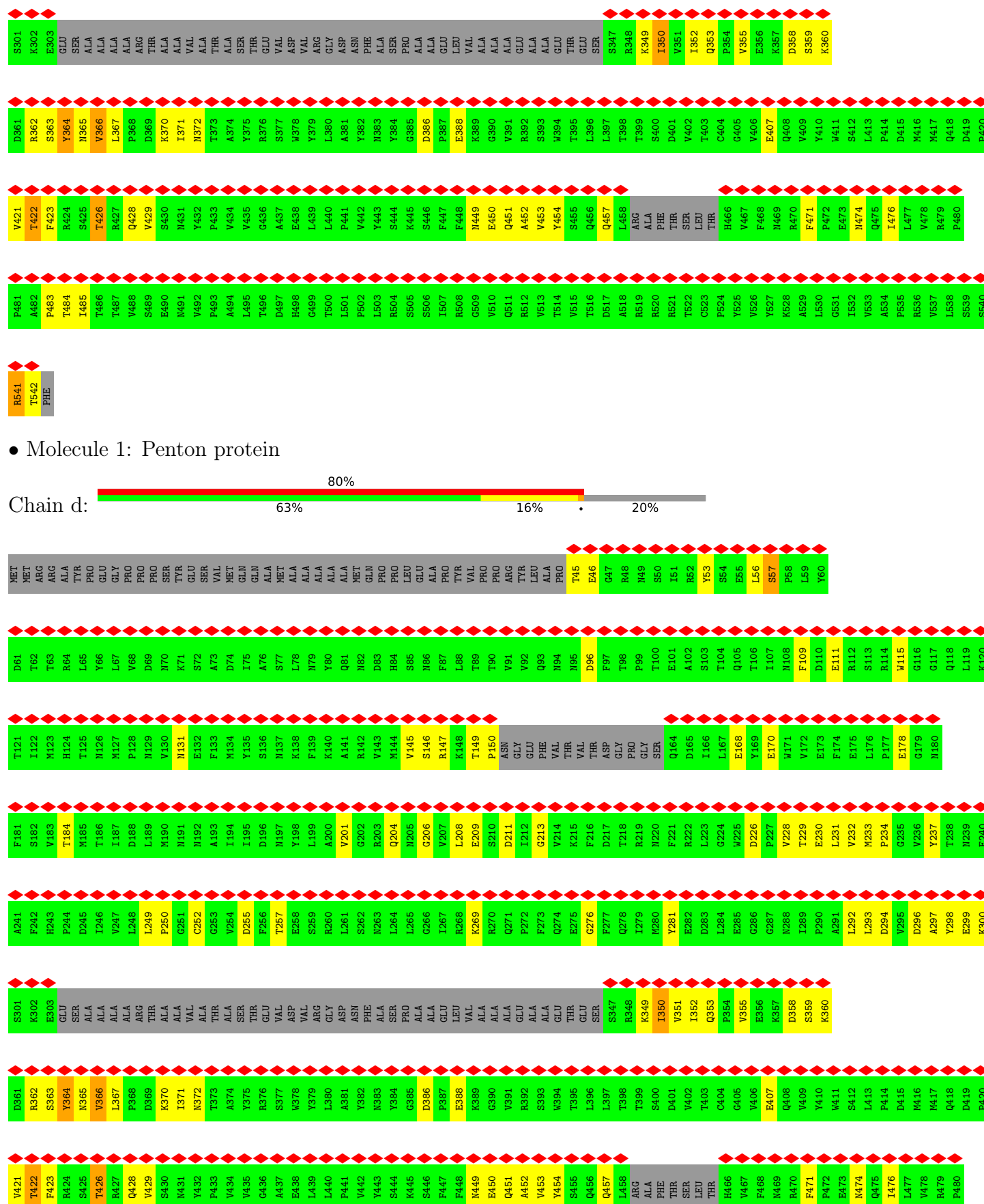
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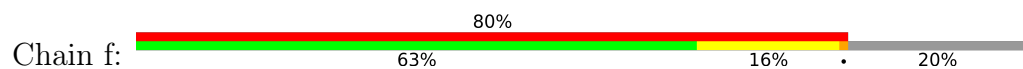


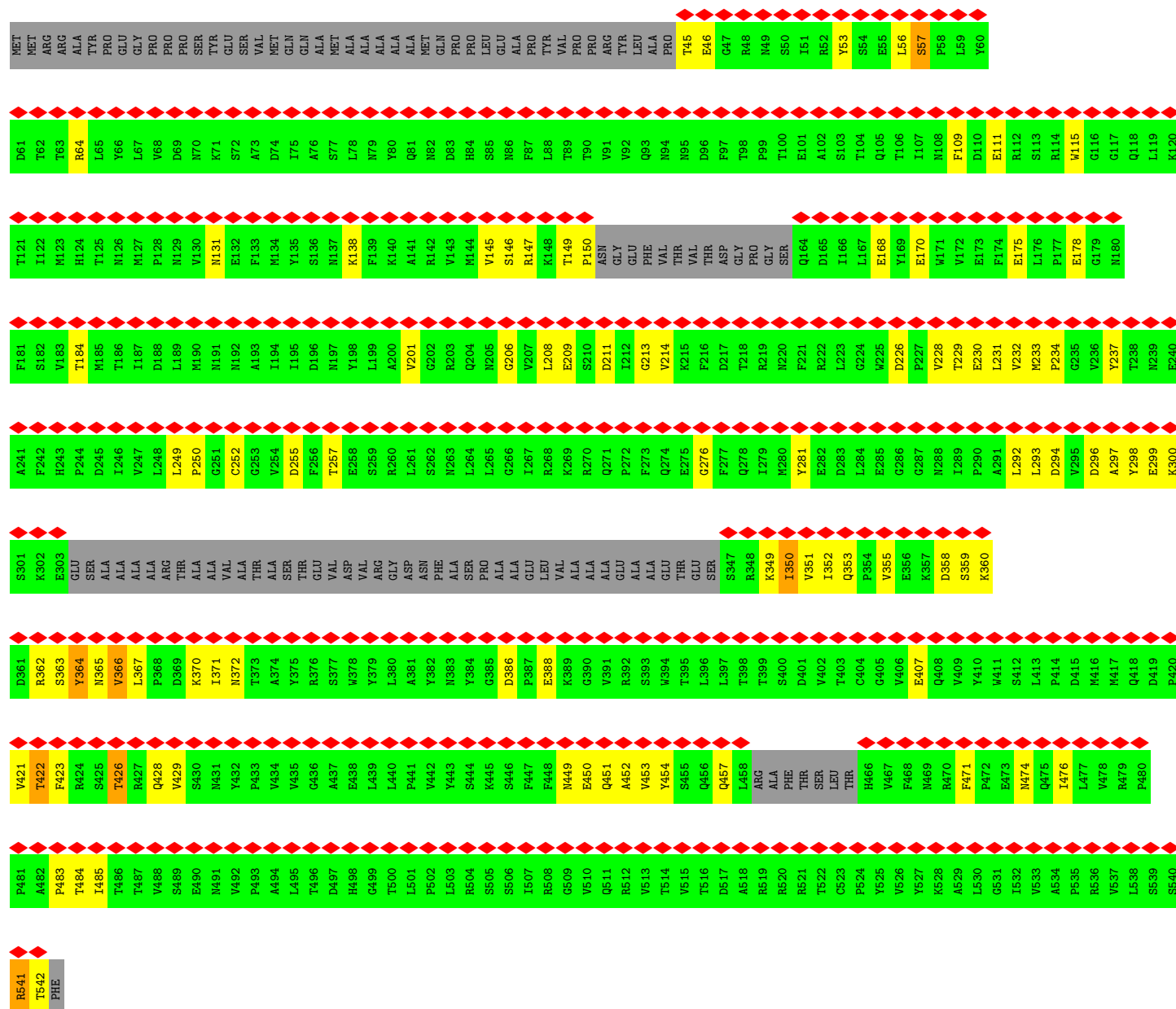


• Molecule 1: Penton protein

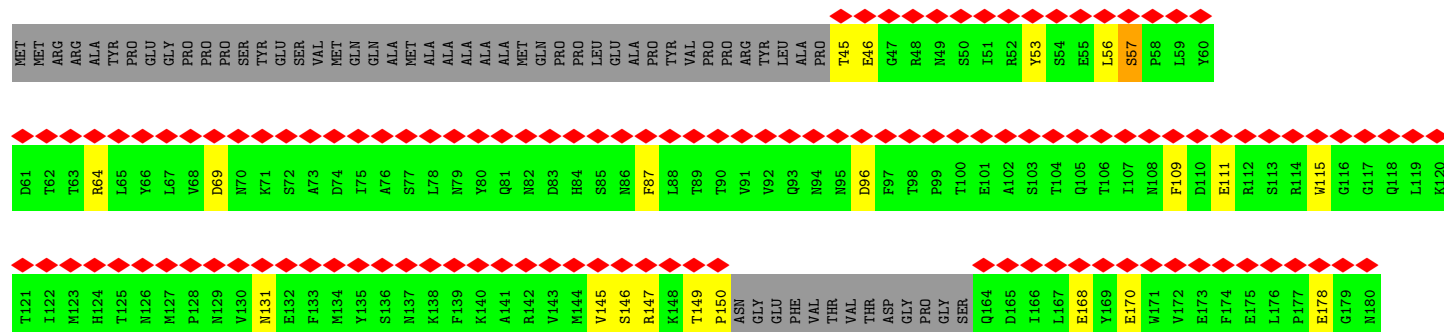


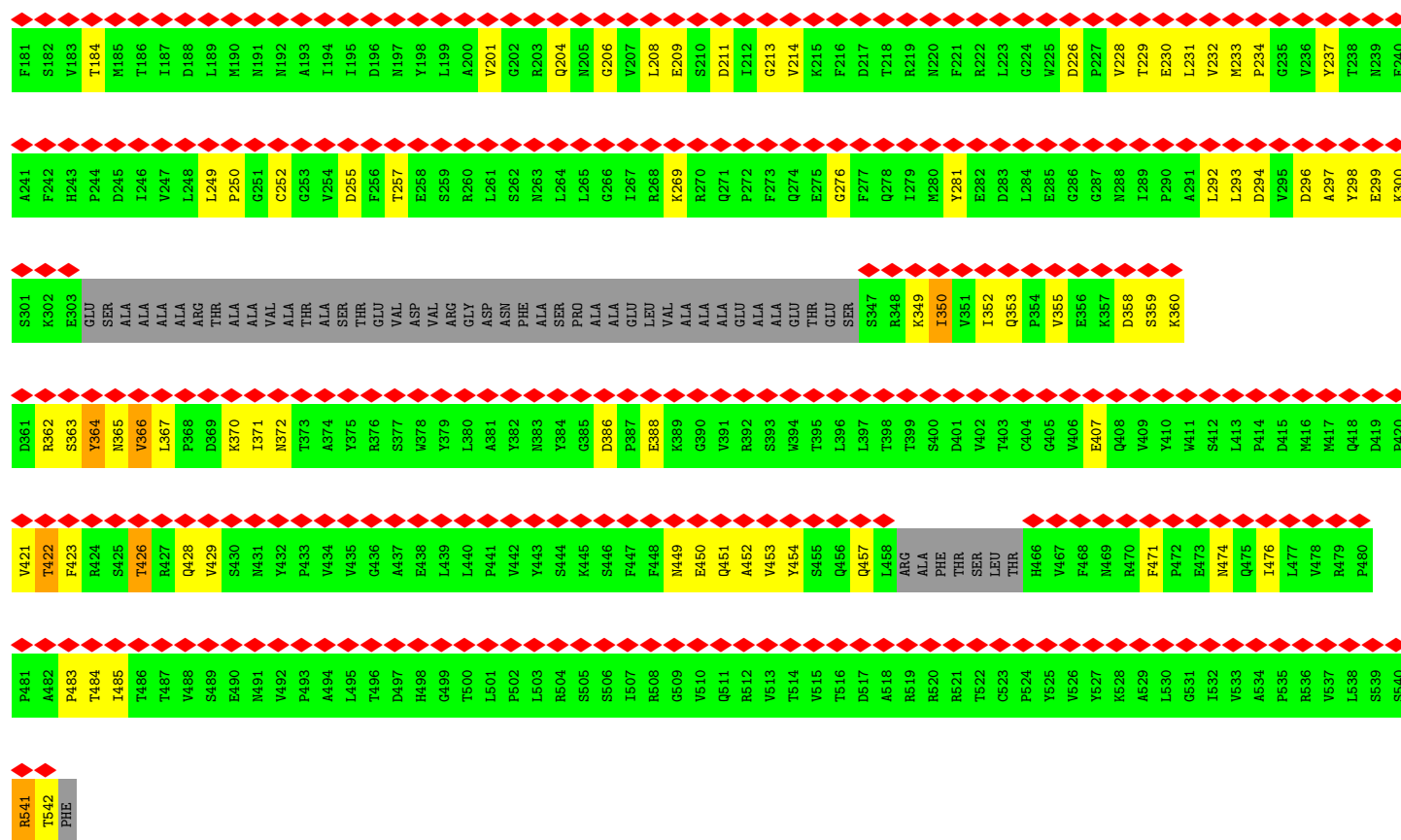




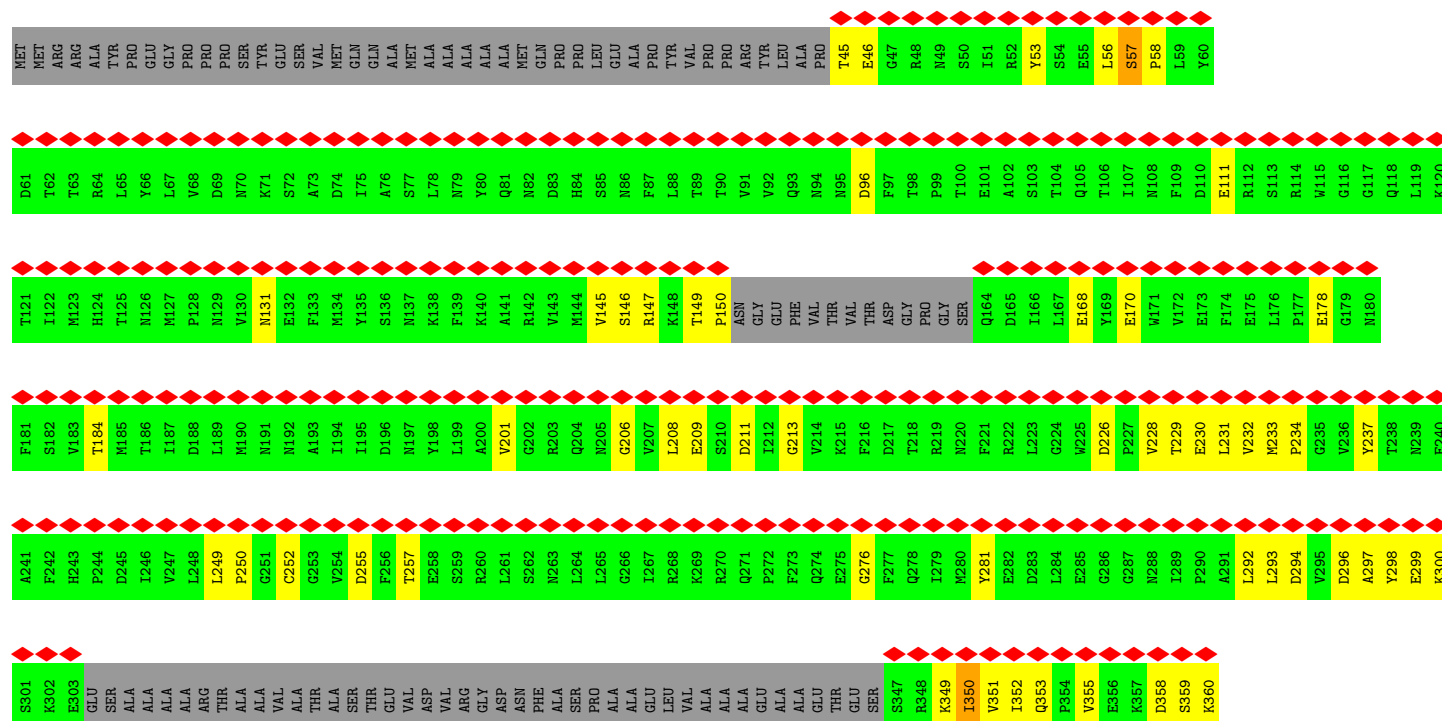
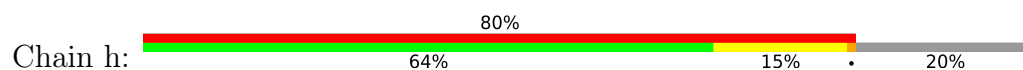


• Molecule 1: Penton protein



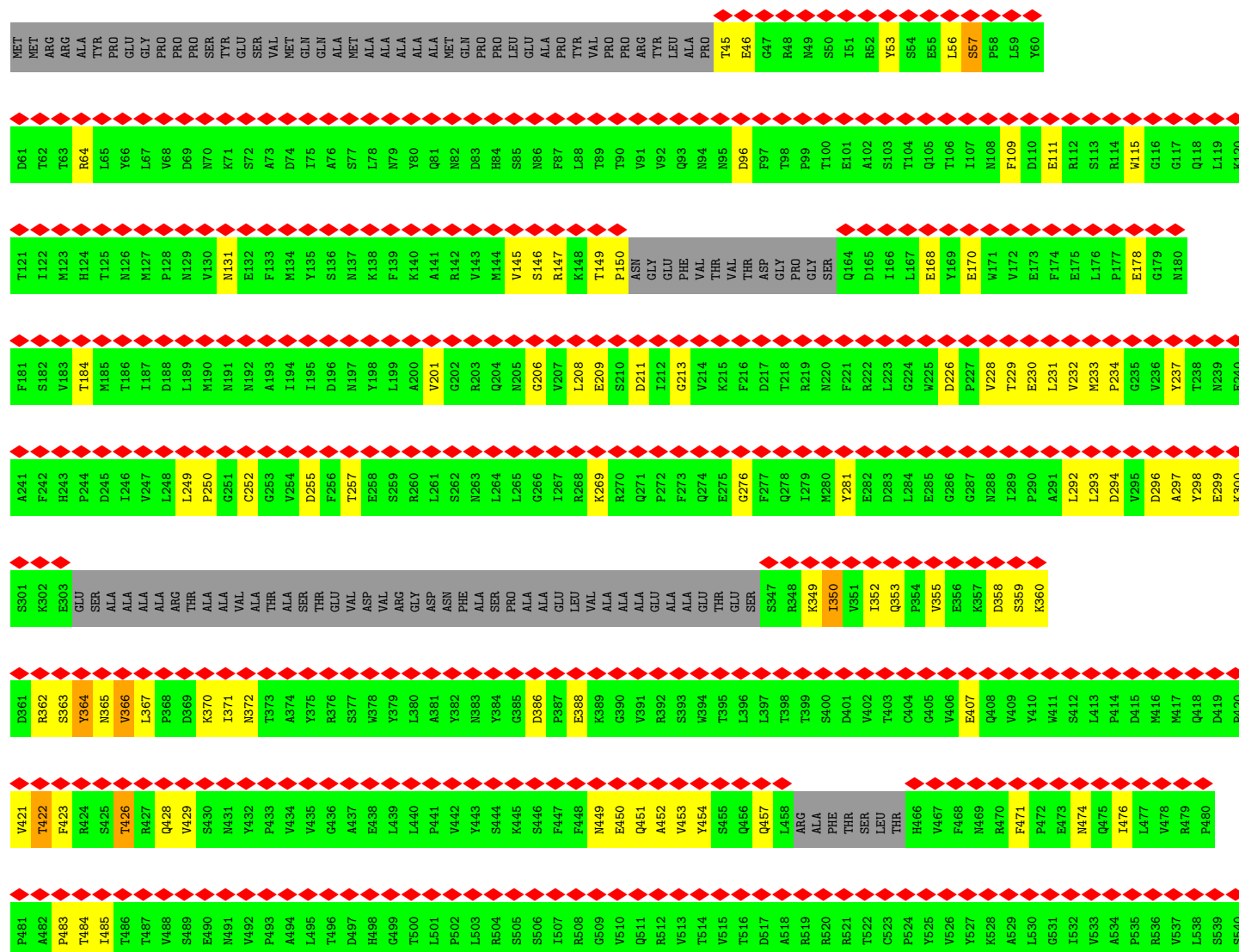
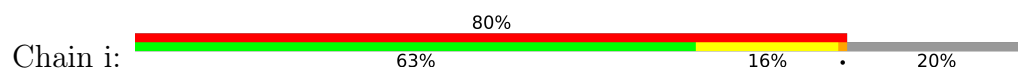


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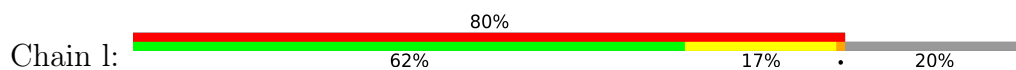


• Molecule 1: Penton protein

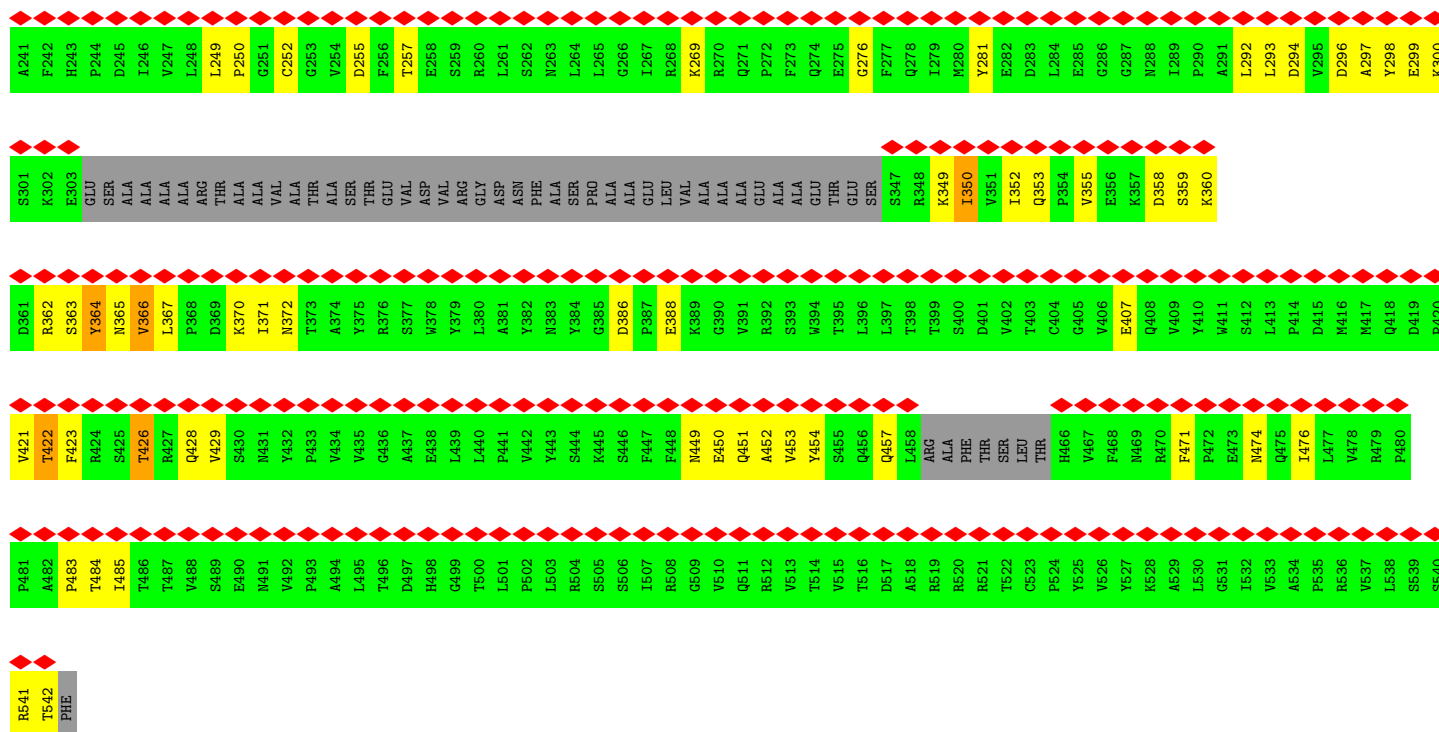


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R64	H124	T184	P244	GLU	Y364	R424	T484	
L65	T125	M185	D245	SER	N365	S425	I485	
Y66	M126	T186	I246	ALA	N366	T426	T486	
L67	M127	I187	V247	ALA	L367	R427	T487	
V68	P128	D188	L248	ALA	P368	Q428	V488	
D69	M129	L189	L249	ARG	P369	V429	S489	
N70	V130	M190	P250	THR	K370	S430	E490	
K71	N131	N191	G251	ALA	I371	M431	N491	
S72	E132	N192	C252	VAL	N372	V432	V492	
A73	F133	A193	G253	ALA	T373	P433	P493	
D74	M134	I194	V254	THR	A374	V434	A494	
I75	Y135	I195	D255	SER	Y375	V435	L495	
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S77	M137	Y197	T257	GLU	S377	A437	D497	
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Y80	K140	A200	R260	ARG	L380	L440	T500	
Q81	A141	V201	L261	GLY	A381	P441	L501	
N82	R142	G202	S262	ASN	Y382	V442	P502	
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S85	V145	N205	L265	SER	G385	K445	S505	
N86	S146	G206	G266	PRO	D386	S446	S506	
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L88	K148	L208	R268	GLU	E388	F448	R508	
T89	T149	E209	K269	LEU	K389	M449	G509	
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V91	ASN	D211	Q271	ALA	V391	Q451	Q511	
V92	GLY	I212	P272	ALA	R392	A452	R512	
Q93	PHE	G213	F273	ALA	S393	V453	V513	
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D96	VAL	F216	G276	GLU	L396	Q456	T516	
F97	THR	D217	F277	SER	L397	Q457	D517	
T98	ASP	T218	Q278	R347	T398	L458	A518	
P99	PRO	R219	I279	R348	T399	ARG	R519	
T100	GLY	M220	Y281	K349	S400	PHE	R520	
E101	SER	F221	E282	I350	D401	THR	R521	
A102	Q164	R222	E283	V351	V402	SER	T522	
S103	D165	L223	D283	I352	T403	LEU	C523	
T104	I166	G224	L284	Q353	C404	THR	P524	
Q105	L167	W225	E285	P354	G405		Y525	
T106	E168	D226	G286	V355	V406	H466	V526	
I107	Y169	P227	G287	E356	E407	V467	V527	
N108	E170	V228	N288	K357	Q408	M469	Y527	
F109	W171	T229	I289	D358	V409	R470	K528	
D110	V172	E230	P290	S359	Y410	F471	A529	
E111	F173	L231	A291	K360	W411	P472	L530	
R112	E175	V232	L292		S412	E473	G531	
S113	P176	M233	L293		L413	M474	V532	
R114	P177	P234	D294		P414	Q475	V533	
W115	E178	G235	V295		D415	L476	P535	
G116	G179	V236	D296		M416	L477	R536	
G117	T237	Y237	A297		Q417	V478	V537	
Q118	L119	N239	Y298		M418	R479	L538	
L119			E299		D419	P480	S539	
K120		E240	K300		P420		S540	

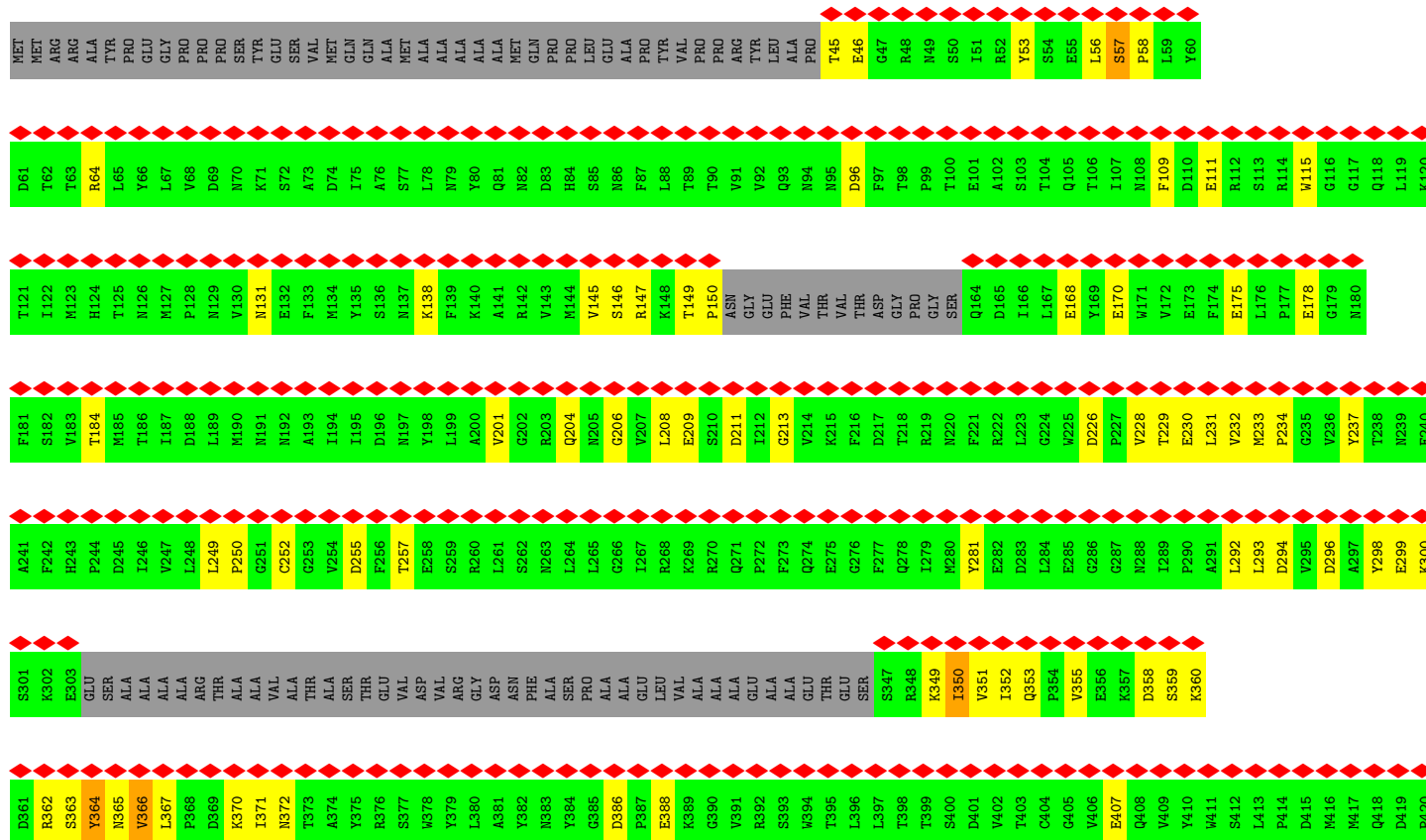
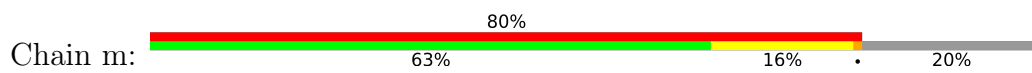
• Molecule 1: Penton protein

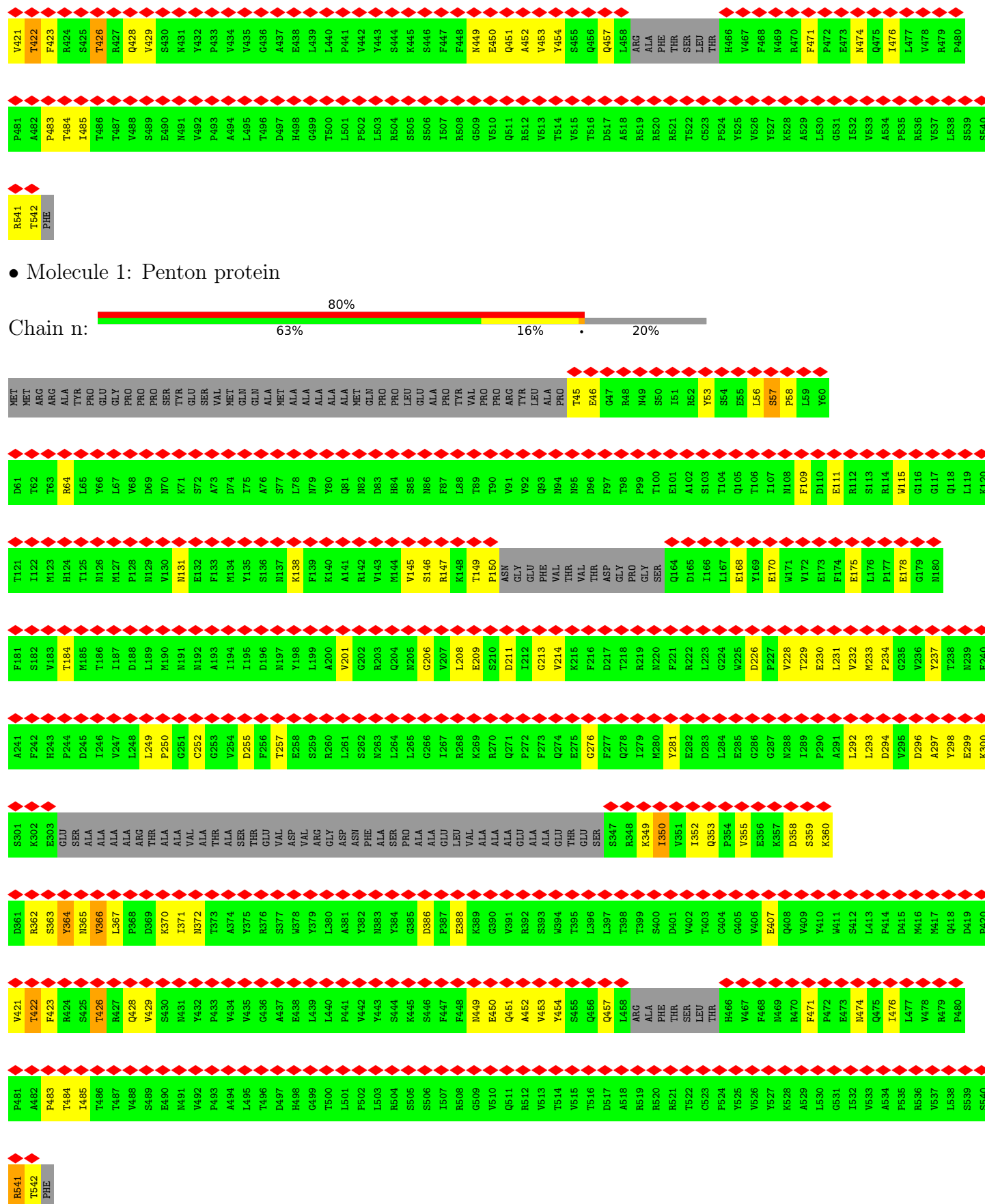


MET	D61	T121	F181	A241	S301	D361	V421	P481	R541
MET	T62	I122	S182	F242	K302	R362	T422	A482	T542
ARG	T63	M123	V183	H243	E303	S363	F423	P483	PHE
ALA	R64	H124	T184	P244	GLU	Y364	R424	T484	
TYR	L65	T125	M185	D245	SER	N365	S425	I485	
PRO	Y66	M126	T186	I246	ALA	N366	T426	T486	
GLY	L67	M127	I187	V247	ALA	L367	R427	T487	
PRO	V68	P128	D188	L248	ALA	P368	Q428	V488	
PRO	D69	M129	L189	L249	ARG	P369	V429	S489	
SER	N70	V130	M190	P250	THR	K370	S430	E490	
TYR	K71	N131	N191	G251	ALA	I371	M431	N491	
GLU	S72	E132	N192	C252	VAL	N372	V432	V492	
SER	A73	F133	A193	G253	ALA	T373	P433	P493	
VAL	D74	M134	I194	V254	THR	A374	V434	A494	
MET	I75	Y135	I195	D255	SER	Y375	V435	L495	
GLN	A76	S136	D196	F256	THR	R376	G436	T496	
ALA	S77	M137	Y197	T257	GLU	S377	A437	D497	
MET	L78	K138	Y198	E258	VAL	W378	E438	H498	
ALA	N79	F139	L199	S259	VAL	Y379	L439	G499	
ALA	Y80	K140	A200	R260	ARG	L380	L440	T500	
ALA	Q81	A141	V201	L261	GLY	A381	P441	L501	
ALA	N82	R142	G202	S262	ASN	Y382	V442	P502	
PRO	D83	V143	R203	N263	ASP	N383	Y443	L503	
PRO	H84	M144	Q204	L264	ALA	Y384	S444	R504	
LEU	S85	V145	N205	L265	SER	G385	K445	S505	
GLU	N86	S146	G206	G266	PRO	D386	S446	S506	
ALA	F87	R147	V207	I267	ALA	P387	F447	L507	
PRO	L88	K148	L208	R268	GLU	E388	F448	R508	
TYR	T89	T149	E209	K269	LEU	K389	M449	G509	
PRO	T90	P150	S210	R270	VAL	G390	E450	V510	
ARG	V91	D211	Q271	Q271	ALA	V391	Q451	Q511	
TYR	V92	I212	P272	F272	ALA	R392	A452	R512	
ALA	Q93	G213	F273	F273	ALA	S393	V453	V513	
ALA	N94	V214	Q274	Q274	ALA	W394	V454	T514	
N95	THR	K215	E275	E275	THR	T395	S455	V515	
D96	VAL	F216	G276	G276	GLU	L396	Q456	T516	
F97	THR	D217	F277	F277	SER	L397	Q457	D517	
A98	ASP	T218	Q278	Q278	R347	T398	L458	A518	
N49	PRO	R219	I279	I279	R348	T399	ARG	R519	
T100	GLY	M220	Y281	Y281	K349	S400	PHE	R520	
E101	SER	F221	E282	E282	I350	D401	THR	R521	
A102	Q164	R222	E283	E283	V351	V402	SER	T522	
S103	D165	L223	D283	D283	I352	T403	LEU	C523	
T104	I166	G224	L284	L284	Q353	C404	THR	P524	
Q105	L167	W225	E285	E285	P354	G405		Y525	
T106	E168	D226	G286	G286	V355	V406	H466	V526	
I107	Y169	P227	G287	G287	E356	E407	V467	V527	
N108	E170	V228	N288	N288	K357	Q408	M469	Y527	
F109	W171	T229	I289	I289	D358	V409	R470	K528	
D110	V172	E230	P290	P290	S359	Y410	F471	A529	
E111	F173	L231	A291	A291	K360	W411	P472	L530	
R112	E175	V232	L292	L292		S412	E473	G531	
S113	P176	M233	L293	L293		L413	M474	V532	
R114	P177	P234	D294	D294		P414	Q475	V533	
W115	E178	G235	V295	V295		D415	L476	P535	
G116	G179	V236	D296	D296		M416	L477	R536	
G117	T237	Y237	A297	A297		Q417	V478	V537	
Q118	L119	N239	Y298	Y298		M418	R479	L538	
L119			E299	E299		D419	P480	S539	
K120		E240	K300	K300		P420		S540	



• Molecule 1: Penton protein

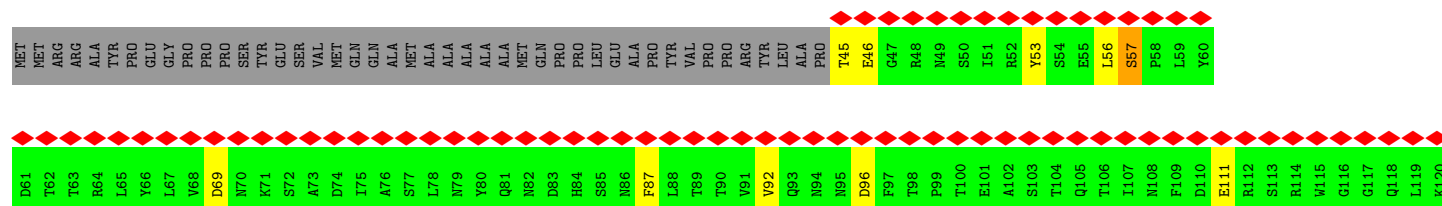


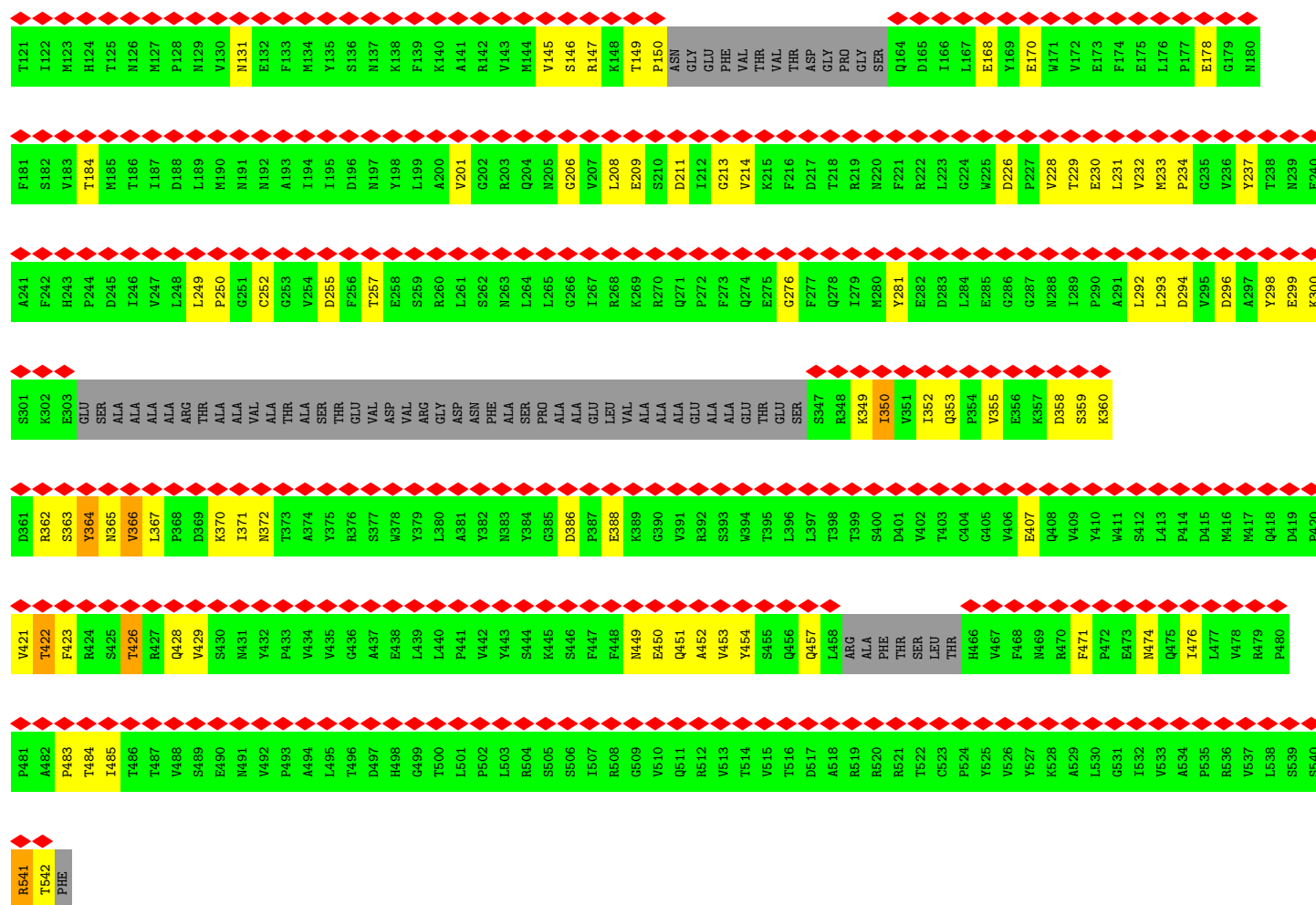


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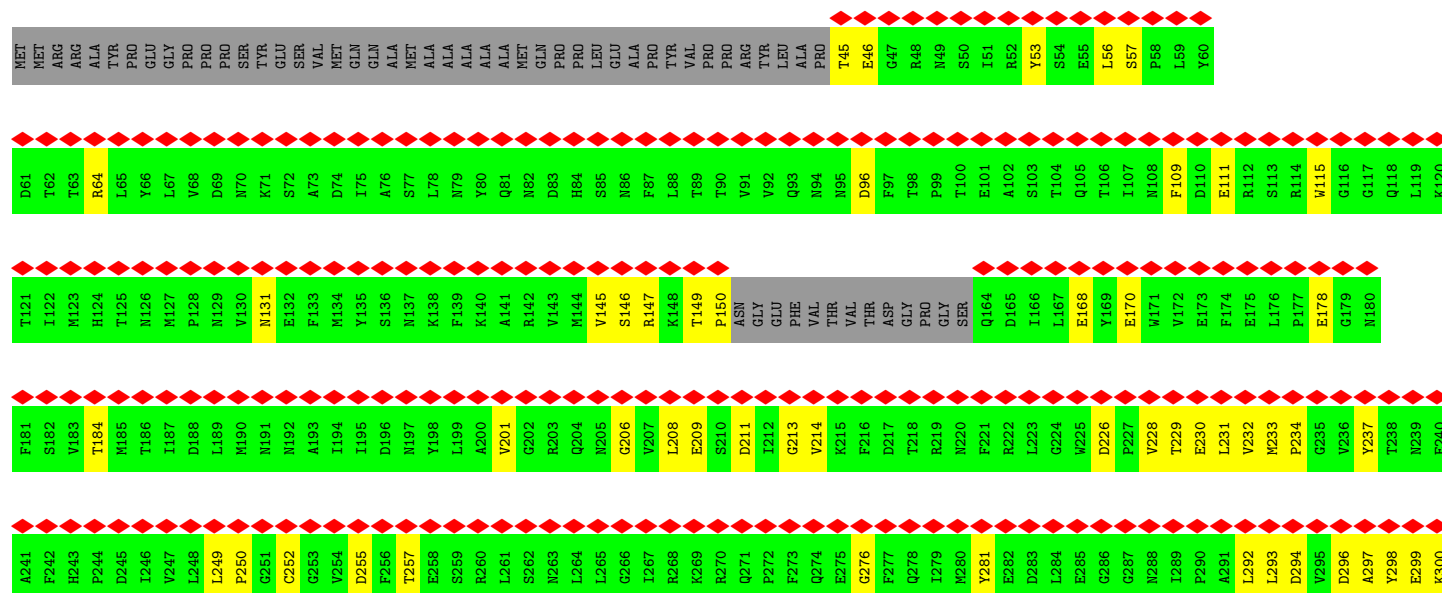
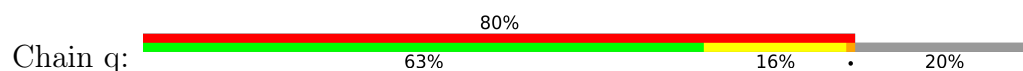
- Molecule 1: Penton protein

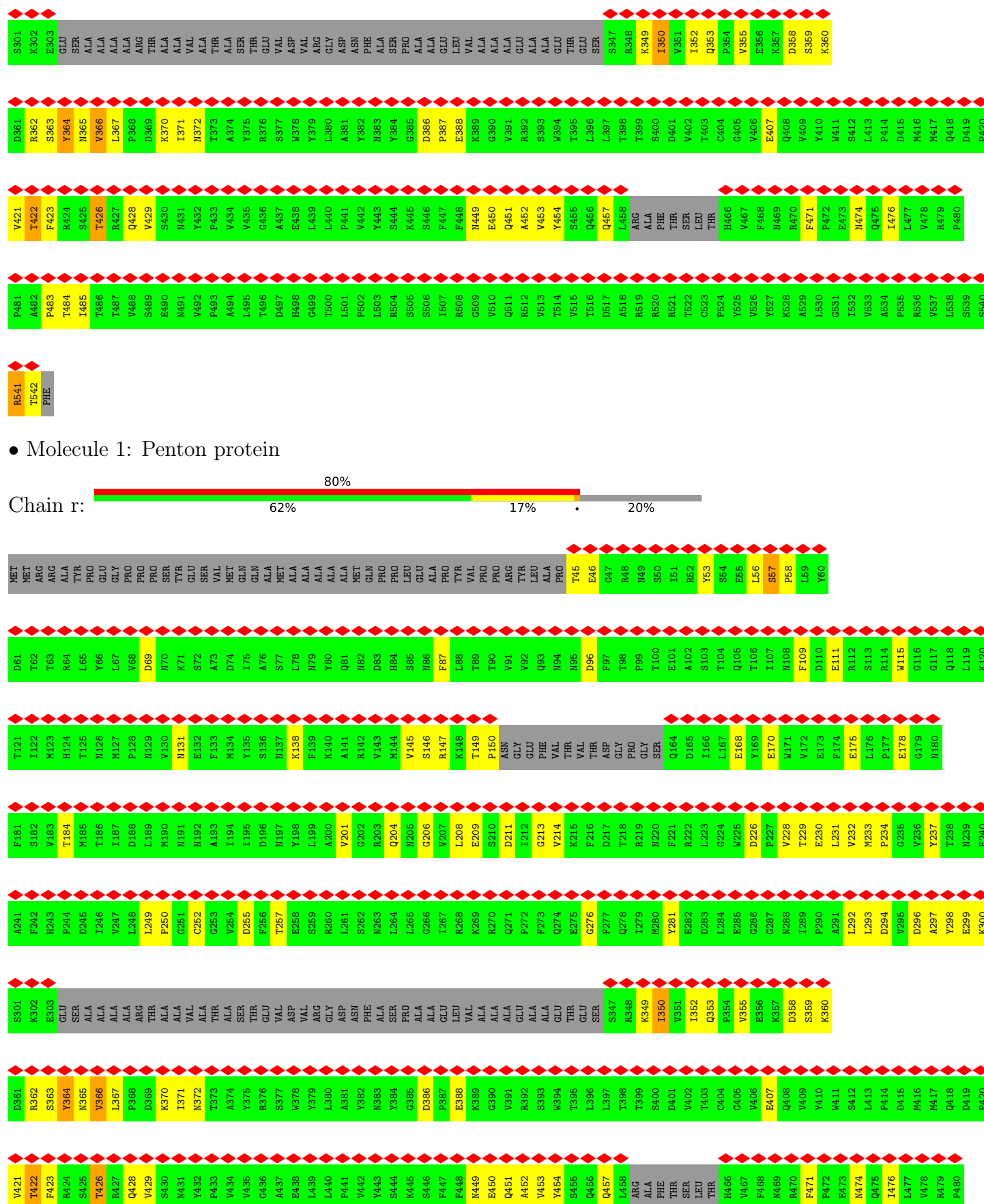
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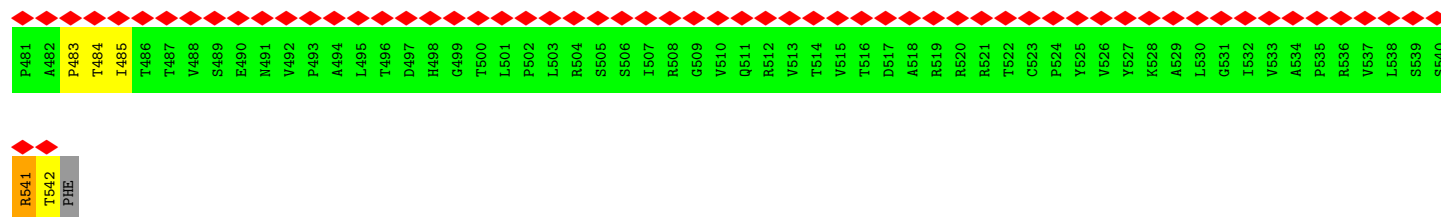




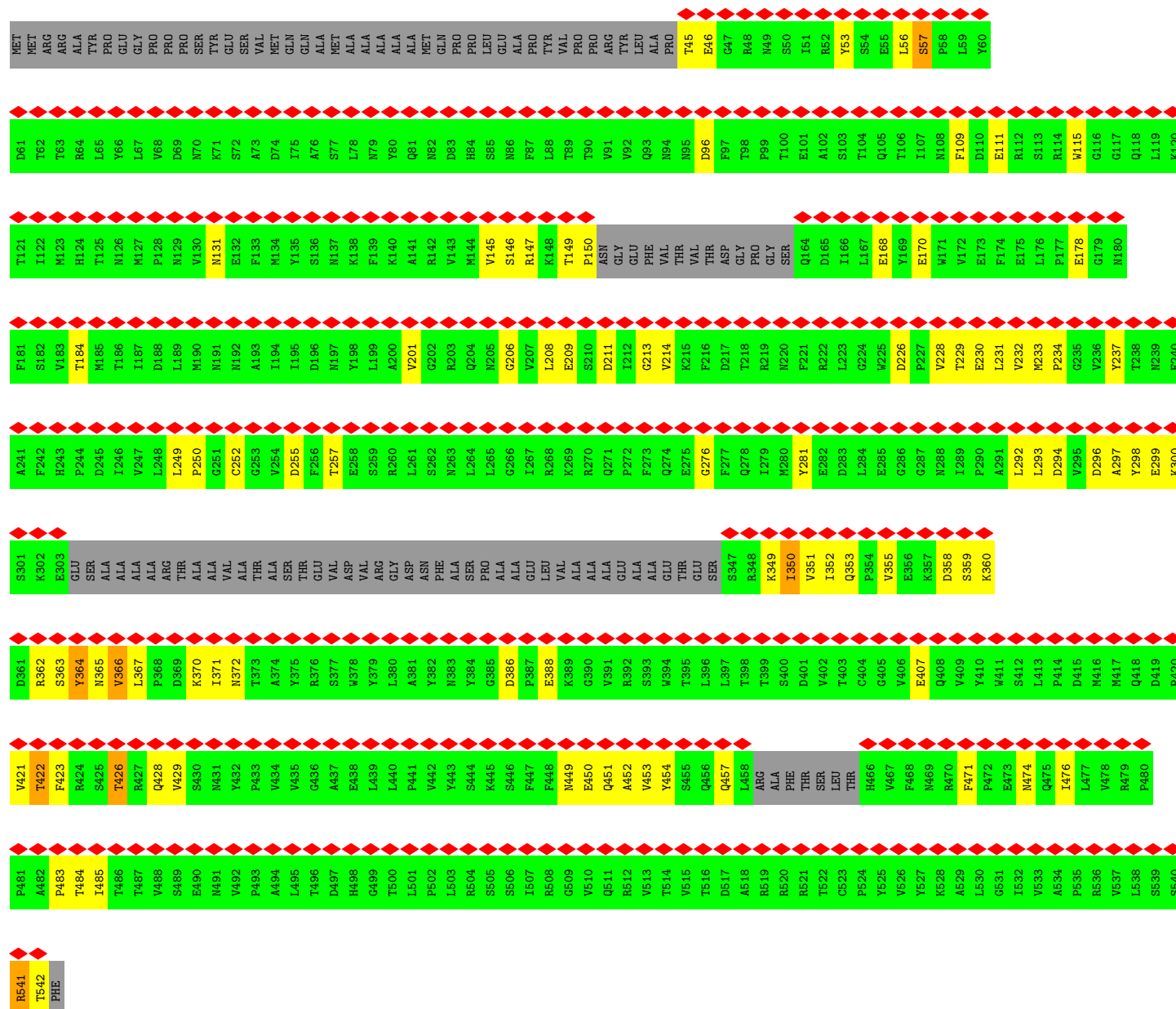
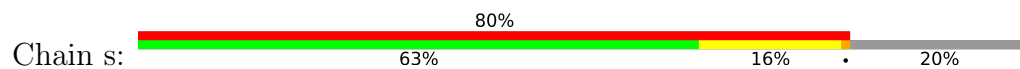
• Molecule 1: Penton protein



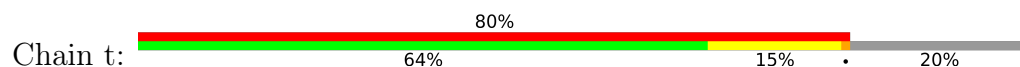




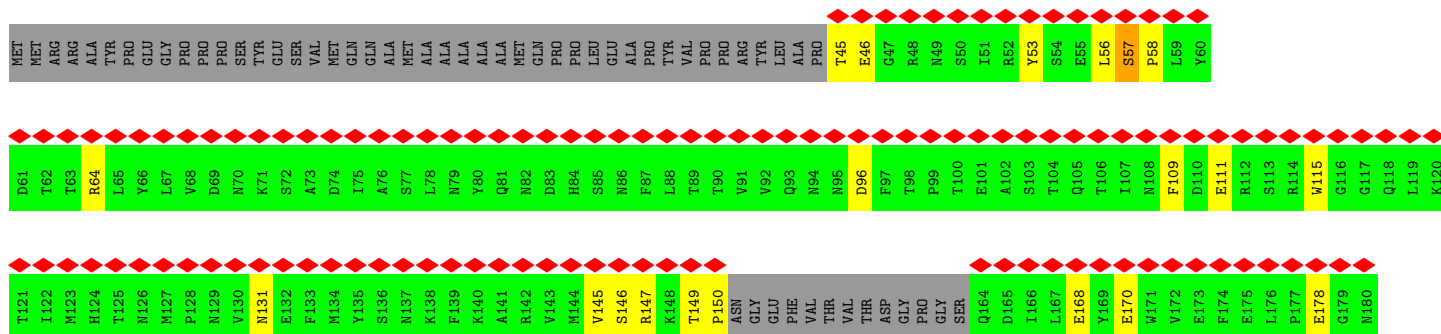
• Molecule 1: Penton protein



• Molecule 1: Penton protein

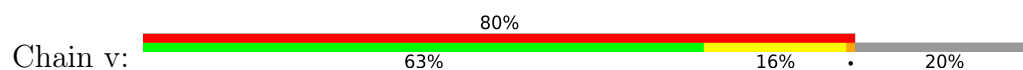


- Molecule 1: Penton protein



F181	A241	S301	D361	V421	P481	R541
S182	F242	K302	R362	T422	A482	T542
V183	H243	E303	S363	F423	P483	PHE
T184	P244	GLU	Y364	R424	T484	
M185	I245	SER	N365	S425	T485	
T186	I246	ALA	V366	T426	T486	
I187	V247	ALA	L367	R427	T487	
D188	L248	ALA	P368	Q428	V488	
L189	L249	ARG	D369	V429	S489	
M190	P250	THR	K370	S430	E490	
N191	G251	ALA	I371	N431	N491	
N192	C252	VAL	N372	Y432	V492	
A193	G253	ALA	T373	P433	P493	
I194	V254	THR	A374	V434	A494	
I195	D255	SER	Y375	V435	L495	
D196	F256	THR	R376	G436	T496	
N197	T257	GLU	S377	A437	D497	
Y198	E258	VAL	W378	E438	H498	
L199	S259	ARG	Y379	L439	G499	
A200	R260	GLY	L380	L440	T500	
V201	L261	ASP	A381	P441	L501	
G202	S262	ASN	Y382	V442	P502	
R203	N263	PHE	N383	Y443	L503	
Q204	L264	ALA	Y384	S444	R504	
N205	L265	SER	R385	K445	S505	
G206	G266	ALA	D386	S446	S506	
V207	I267	GLU	P387	F447	I507	
L208	R268	LEU	E388	F448	R508	
E209	K269	VAL	K389	N449	G509	
S210	R270	ALA	G390	E450	V510	
D211	Q271	ALA	V391	Q451	Q511	
I212	P272	GLU	R392	A452	R512	
G213	F273	ALA	S393	V453	V513	
V214	Q274	ALA	W394	V454	T514	
K215	E275	GLU	T395	S455	V515	
F216	G276	THR	L396	Q456	T516	
D217	F277	GLU	L397	Q457	D517	
T218	Q278	SER	T398	L458	A518	
R219	I279	R348	T399	ARG	R519	
N220	M280	K349	S400	ALA	N49	
F221	Y281	I350	D401	PHE	R520	
R222	E282	V351	V402	THR	R521	
L223	D283	R352	T403	SER	T522	
G224	L284	Q353	C404	LEU	C523	
W225	E285	P354	G405	THR	P524	
D226	G286	V355	V406	H466	Y525	
P227	G287	E356	E407	V467	V526	
V228	N288	K357	Q408	F468	Y527	
T229	I289	D358	V409	N469	K528	
E230	P290	S359	Y410	R470	A529	
L231	A291	K360	W411	F471	L530	
V232	L292		S412	E472	G531	
M233	L293		L413	N474	I532	
P234	D294		P414	Q475	V533	
G235	V295		D415	I476	A534	
V236	D296		M416	L477	P535	
Y237	A297		M417	V478	R536	
T238	Y298		Q418	R479	V537	
N239	E299		D419	P480	L538	
E240	K300		P420		S539	
					S540	

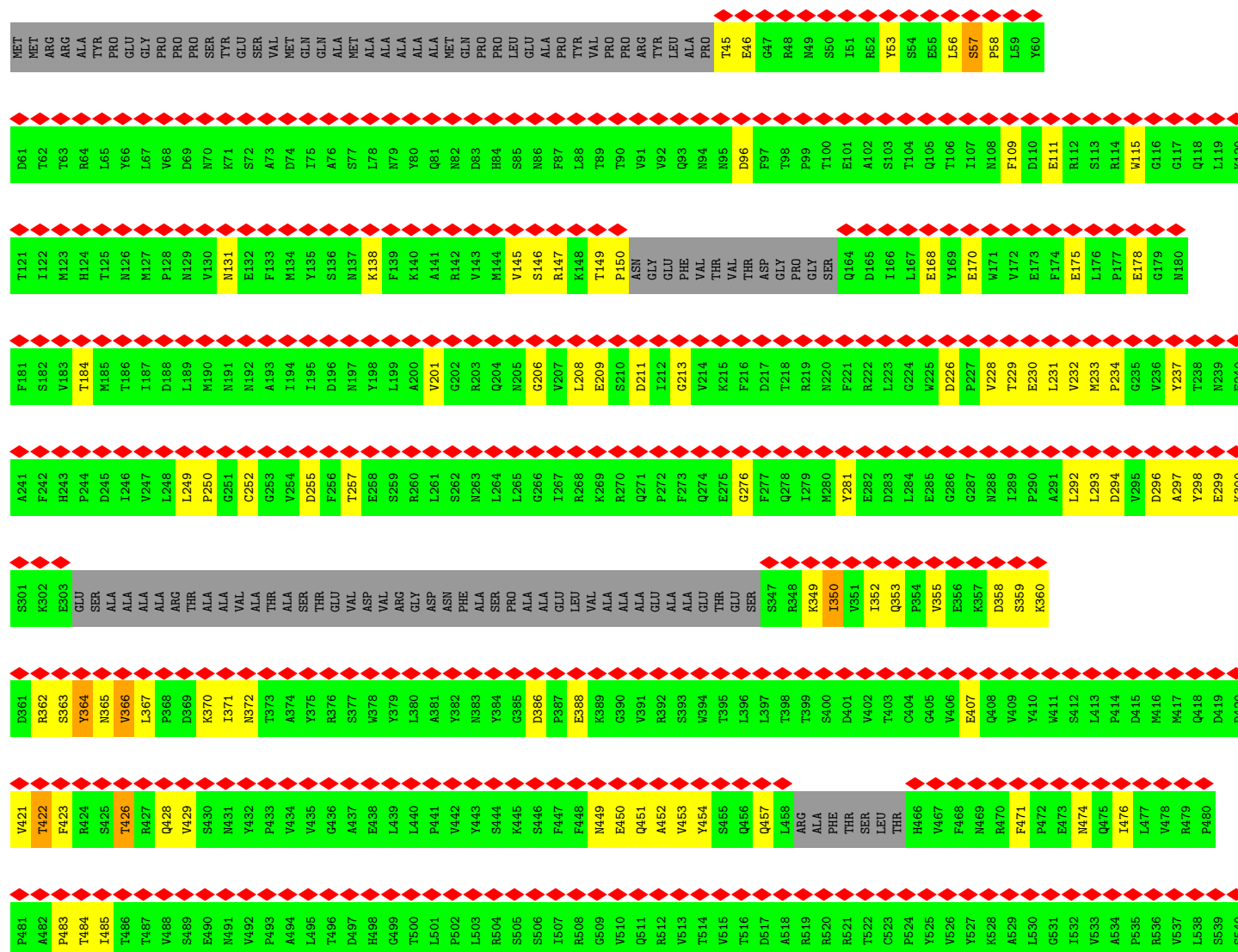
• Molecule 1: Penton protein



MET	D61	T121	F181	A241	S301
MET	T62	I122	S182	F242	K302
ARG	T63	M123	V183	H243	E303
ALA	R64	H124	T184	P244	GLU
TYR	L65	T125	M185	I245	SER
PRO	V66	M126	T186	I246	ALA
GLY	L67	M127	I187	V247	ALA
PRO	V68	P128	D188	L248	ALA
PRO	D69	L189	L189	L249	ARG
SER	N70	V130	M190	P250	THR
TYR	K71	M131	N191	G251	ALA
GLU	S72	E132	N192	C252	VAL
SER	D73	F133	A193	G253	ALA
VAL	A74	M134	I194	V254	THR
MET	T75	Y135	I195	D255	ALA
GLN	A76	S136	D196	F256	SER
ALA	S77	M137	N197	T257	THR
ALA	L78	K138	Y198	E258	GLU
ALA	N79	F139	L199	S259	VAL
ALA	Y80	K140	A200	R260	ARG
ALA	Q81	A141	V201	L261	GLY
ALA	N82	R142	G202	S262	ASP
GLN	D83	V143	R203	N263	ASN
PRO	H84	M144	Q204	L264	PHE
LEU	S85	V145	N205	L265	ALA
ALA	N86	S146	G206	G266	PRO
ALA	F87	R147	V207	I267	ALA
TYR	L88	K148	L208	R268	GLU
PRO	T89	T149	E209	K269	LEU
PRO	T90	P150	S210	R270	VAL
ARG	V91	GLY	D211	Q271	ALA
LEU	V92	PHE	I212	P272	ALA
ALA	Q93	THR	G213	F273	GLU
PRO	N94	VAL	V214	Q274	THR
PRO	N95	VAL	K215	E275	GLU
T45	D96	THR	F216	G276	SER
E46	F97	ASP	D217	F277	
G47	T98	GLY	T218	Q278	S347
R48	P99	PRO	R219	I279	R348
S50	T100	GLY	N220	M280	K349
I51	E101	SER	F221	Y281	I350
R52	A102	THR	R222	E282	V351
Y53	S103	D165	L223	D283	I352
S54	T104	I166	G224	L284	Q353
E55	Q105	L167	W225	E285	P354
L56	T106	E168	D226	G286	V355
S57	I107	Y169	P227	G287	E356
P58	N108	E170	V228	N288	K357
L59	F109	W171	T229	I289	D358
Y60	D110	E172	E230	P290	S359
	E111	F174	L231	A291	K360
	R112	E175	V232	L292	
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	R114	P177	P234	D294	
	W115	E178	G235	V295	
	G116	G179	V236	D296	
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	L119		T238	Y298	
	K120		N239	E299	
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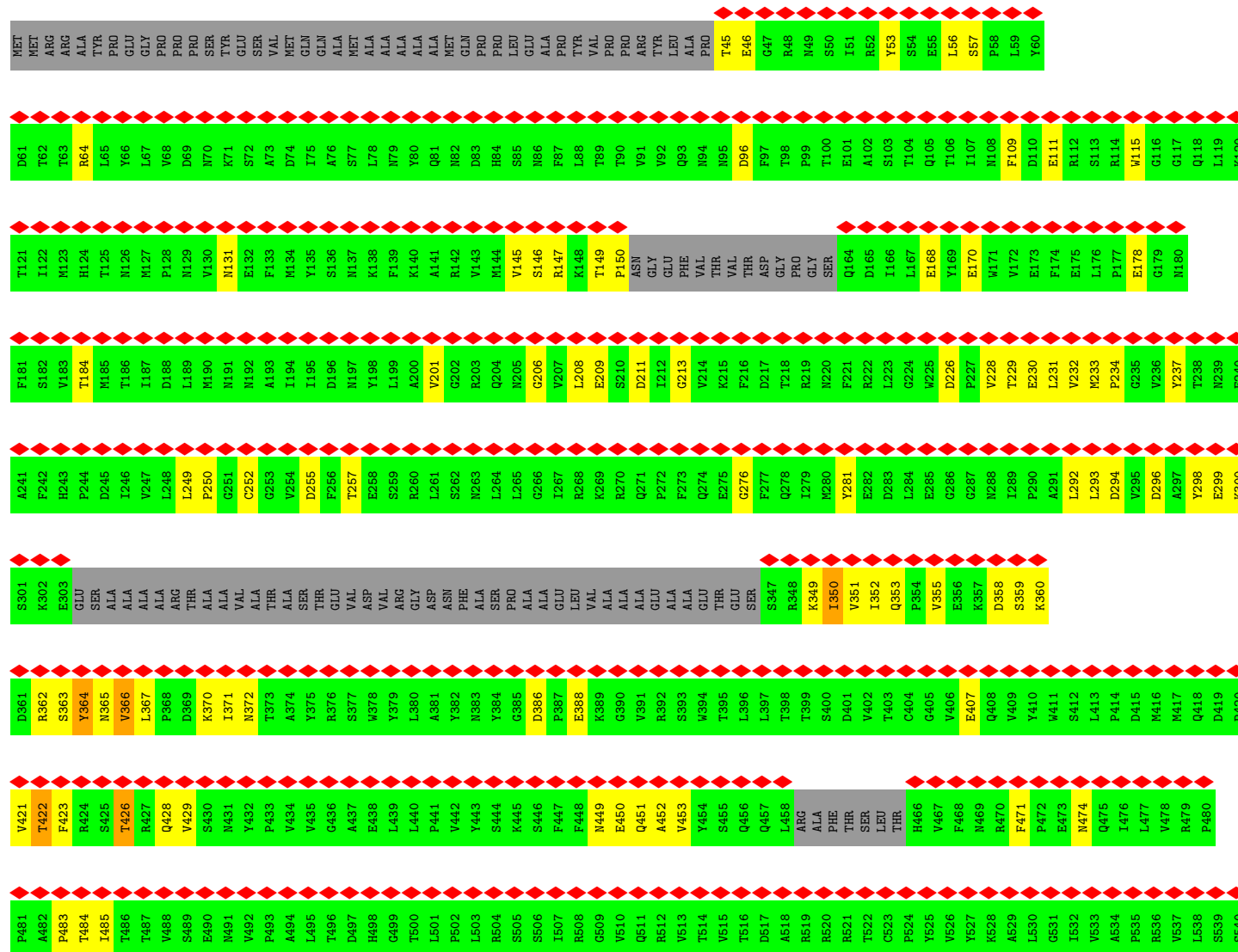
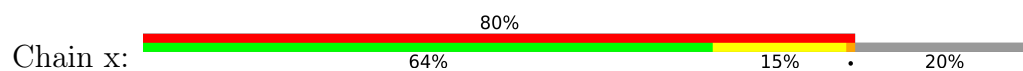


● Molecule 1: Penton protein

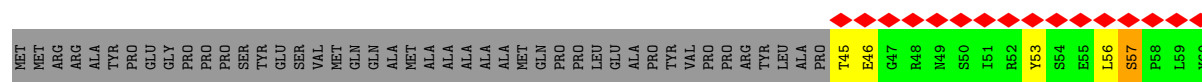
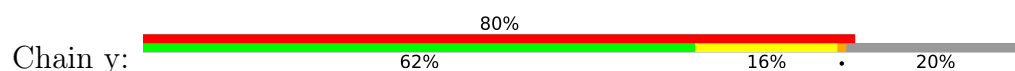




• Molecule 1: Penton protein



• Molecule 1: Penton protein



R541	T542	PHE	P481	A482	P483	T484	I485	T486	T487	V488	S489	E490	M491	V492	P493	A494	L495	T496	D497	H498	G499	T500	L501	P502	L503	R504	S505	S506	L507	R508	G509	V510	O511	R512	V513	T514	V515	D516	A518	R519	R520	R521	T522	C523	P524	V525	V526	V527	K528	A529	L530	G531	T532	V533	A534	P535	R536	V537	L538	S539	S540
D361	R362	S363	Y364	N365	V366	L367	P368	D369	K370	L371	N372	T373	A374	Y375	R376	S377	W378	Y379	L380	A381	Y382	N383	Y384	G385	D386	P387	E388	K389	G390	V391	R392	S393	W394	T395	L396	L397	T398	T399	S400	D401	V402	T403	C404	G405	V406	E407	Q408	V409	Y410	W411	S412	L413	P414	D415	W416	W417	Q418	D419	P420		
V421	T422	F423	R424	S425	T426	R427	Q428	V429	S430	M431	V432	P433	A434	V435	C436	A437	E438	L439	L440	P441	V442	Y443	S444	K445	S446	F447	P448	M449	E450	Q451	A452	V453	Y454	S455	Q456	Q457	L458	ARG	ALA	PHE	THR	SER	LEU	THR	H466	V467	F468	M469	R470	F471	P472	E473	M474	Q475	I476	L477	V478	R479	P480		
S301	K302	E303	GLU	SER	ALA	ALA	ALA	ALA	THR	THR	ALA	ALA	VAL	THR	ALA	SER	THR	GLU	VAL	ASP	VAL	ARG	GLY	ASP	PHE	ASN	ALA	SER	PRO	ALA	ALA	GLU	LEU	VAL	ALA	ALA	ALA	GLU	GLU	ALA	ALA	GLU	THR	GLU	SER	S347	R348	K349	T350	V351	I352	Q353	P354	V355	E356	K357	D358	I359	S359	K360	
A241	F242	H243	P244	D245	I246	V247	L248	L249	L249	THR	THR	ALA	ALA	G251	C252	G253	V254	D255	F256	T257	E258	S259	R260	L261	L264	L265	G266	L267	R268	K269	R270	Q271	P272	F273	Q274	E275	G276	F277	Q278	I279	M280	Y281	E282	D283	L284	E285	G286	G287	N288	I289	P290	A291	L292	L293	D294	V295	D296	A297	Y298	E299	K300

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	147098	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	44.01	Depositor
Minimum defocus (nm)	700	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.270	Depositor
Minimum map value	-0.143	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.010	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	419.99997, 419.99997, 419.99997	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section:
K

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	1	0.30	0/3588	0.69	14/4880 (0.3%)
1	2	0.30	0/3588	0.68	14/4880 (0.3%)
1	3	0.30	0/3588	0.68	14/4880 (0.3%)
1	4	0.30	1/3588 (0.0%)	0.69	14/4880 (0.3%)
1	5	0.30	0/3588	0.68	14/4880 (0.3%)
1	6	0.30	0/3588	0.69	15/4880 (0.3%)
1	7	0.30	0/3588	0.69	14/4880 (0.3%)
1	8	0.30	0/3588	0.69	15/4880 (0.3%)
1	9	0.30	0/3588	0.69	14/4880 (0.3%)
1	A	0.30	0/3588	0.69	14/4880 (0.3%)
1	B	0.30	0/3588	0.69	14/4880 (0.3%)
1	C	0.30	0/3588	0.69	14/4880 (0.3%)
1	D	0.30	0/3588	0.68	14/4880 (0.3%)
1	E	0.30	0/3588	0.69	14/4880 (0.3%)
1	F	0.30	0/3588	0.68	14/4880 (0.3%)
1	G	0.30	0/3588	0.68	14/4880 (0.3%)
1	H	0.30	0/3588	0.69	14/4880 (0.3%)
1	I	0.30	0/3588	0.68	14/4880 (0.3%)
1	J	0.30	0/3588	0.69	14/4880 (0.3%)
1	K	0.30	0/3588	0.68	14/4880 (0.3%)
1	L	0.30	0/3588	0.69	14/4880 (0.3%)
1	M	0.30	0/3588	0.69	14/4880 (0.3%)
1	N	0.30	0/3588	0.69	14/4880 (0.3%)
1	O	0.30	0/3588	0.69	14/4880 (0.3%)
1	P	0.30	0/3588	0.69	15/4880 (0.3%)
1	Q	0.30	0/3588	0.68	15/4880 (0.3%)
1	R	0.30	0/3588	0.69	14/4880 (0.3%)
1	S	0.30	0/3588	0.69	15/4880 (0.3%)
1	T	0.30	0/3588	0.69	14/4880 (0.3%)
1	V	0.30	0/3588	0.69	15/4880 (0.3%)
1	W	0.30	0/3588	0.69	14/4880 (0.3%)
1	X	0.30	0/3588	0.69	14/4880 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.30	0/3588	0.69	15/4880 (0.3%)
1	Z	0.30	0/3588	0.69	14/4880 (0.3%)
1	a	0.30	0/3588	0.68	14/4880 (0.3%)
1	b	0.30	0/3588	0.68	14/4880 (0.3%)
1	c	0.30	0/3588	0.68	14/4880 (0.3%)
1	d	0.30	0/3588	0.69	14/4880 (0.3%)
1	e	0.30	0/3588	0.69	15/4880 (0.3%)
1	f	0.30	0/3588	0.68	15/4880 (0.3%)
1	g	0.30	0/3588	0.69	15/4880 (0.3%)
1	h	0.30	0/3588	0.69	14/4880 (0.3%)
1	i	0.30	0/3588	0.69	14/4880 (0.3%)
1	j	0.30	0/3588	0.69	14/4880 (0.3%)
1	k	0.30	0/3588	0.69	14/4880 (0.3%)
1	l	0.30	0/3588	0.69	14/4880 (0.3%)
1	m	0.30	0/3588	0.69	14/4880 (0.3%)
1	n	0.30	0/3588	0.69	15/4880 (0.3%)
1	o	0.30	0/3588	0.69	15/4880 (0.3%)
1	p	0.30	0/3588	0.68	15/4880 (0.3%)
1	q	0.30	0/3588	0.69	15/4880 (0.3%)
1	r	0.30	0/3588	0.69	15/4880 (0.3%)
1	s	0.30	0/3588	0.69	15/4880 (0.3%)
1	t	0.30	0/3588	0.69	14/4880 (0.3%)
1	u	0.30	0/3588	0.69	14/4880 (0.3%)
1	v	0.30	0/3588	0.69	15/4880 (0.3%)
1	w	0.30	0/3588	0.69	14/4880 (0.3%)
1	x	0.30	0/3588	0.69	14/4880 (0.3%)
1	y	0.30	0/3588	0.69	14/4880 (0.3%)
1	z	0.30	0/3588	0.69	14/4880 (0.3%)
All	All	0.30	1/215280 (0.0%)	0.69	857/292800 (0.3%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4	366	VAL	CA-CB	-5.00	1.47	1.53

All (857) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	426	THR	N-CA-C	8.32	124.25	113.18
1	E	426	THR	N-CA-C	8.32	124.24	113.18
1	o	426	THR	N-CA-C	8.32	124.24	113.18
1	z	426	THR	N-CA-C	8.32	124.24	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	426	THR	N-CA-C	8.31	124.24	113.18
1	l	426	THR	N-CA-C	8.31	124.23	113.18
1	t	426	THR	N-CA-C	8.31	124.23	113.18
1	G	426	THR	N-CA-C	8.31	124.23	113.18
1	R	426	THR	N-CA-C	8.31	124.23	113.18
1	m	426	THR	N-CA-C	8.31	124.23	113.18
1	q	426	THR	N-CA-C	8.31	124.23	113.18
1	S	426	THR	N-CA-C	8.31	124.23	113.18
1	k	426	THR	N-CA-C	8.31	124.23	113.18
1	L	426	THR	N-CA-C	8.30	124.22	113.18
1	f	426	THR	N-CA-C	8.30	124.22	113.18
1	3	426	THR	N-CA-C	8.30	124.22	113.18
1	8	426	THR	N-CA-C	8.30	124.22	113.18
1	j	426	THR	N-CA-C	8.30	124.22	113.18
1	e	426	THR	N-CA-C	8.30	124.22	113.18
1	P	426	THR	N-CA-C	8.30	124.21	113.18
1	V	426	THR	N-CA-C	8.29	124.21	113.18
1	Y	426	THR	N-CA-C	8.29	124.21	113.18
1	y	426	THR	N-CA-C	8.29	124.21	113.18
1	2	426	THR	N-CA-C	8.29	124.21	113.18
1	I	426	THR	N-CA-C	8.29	124.21	113.18
1	a	426	THR	N-CA-C	8.29	124.21	113.18
1	H	426	THR	N-CA-C	8.29	124.21	113.18
1	K	426	THR	N-CA-C	8.29	124.20	113.18
1	c	426	THR	N-CA-C	8.29	124.21	113.18
1	l	426	THR	N-CA-C	8.29	124.20	113.18
1	9	426	THR	N-CA-C	8.29	124.20	113.18
1	F	426	THR	N-CA-C	8.29	124.20	113.18
1	N	426	THR	N-CA-C	8.29	124.20	113.18
1	v	426	THR	N-CA-C	8.29	124.20	113.18
1	C	426	THR	N-CA-C	8.28	124.20	113.18
1	i	426	THR	N-CA-C	8.28	124.20	113.18
1	4	426	THR	N-CA-C	8.28	124.19	113.18
1	6	426	THR	N-CA-C	8.28	124.19	113.18
1	d	426	THR	N-CA-C	8.28	124.19	113.18
1	O	426	THR	N-CA-C	8.28	124.19	113.18
1	Z	426	THR	N-CA-C	8.28	124.19	113.18
1	n	426	THR	N-CA-C	8.28	124.19	113.18
1	7	426	THR	N-CA-C	8.28	124.19	113.18
1	D	426	THR	N-CA-C	8.28	124.19	113.18
1	r	426	THR	N-CA-C	8.28	124.19	113.18
1	s	426	THR	N-CA-C	8.28	124.19	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	426	THR	N-CA-C	8.28	124.19	113.18
1	5	426	THR	N-CA-C	8.27	124.18	113.18
1	A	426	THR	N-CA-C	8.27	124.18	113.18
1	J	426	THR	N-CA-C	8.27	124.18	113.18
1	T	426	THR	N-CA-C	8.27	124.18	113.18
1	M	426	THR	N-CA-C	8.27	124.18	113.18
1	W	426	THR	N-CA-C	8.27	124.17	113.18
1	g	426	THR	N-CA-C	8.27	124.17	113.18
1	b	426	THR	N-CA-C	8.26	124.17	113.18
1	X	426	THR	N-CA-C	8.26	124.17	113.18
1	B	426	THR	N-CA-C	8.25	124.16	113.18
1	h	426	THR	N-CA-C	8.25	124.16	113.18
1	p	426	THR	N-CA-C	8.25	124.16	113.18
1	Q	426	THR	N-CA-C	8.25	124.15	113.18
1	m	56	LEU	N-CA-C	7.58	121.61	109.86
1	B	56	LEU	N-CA-C	7.58	121.61	109.86
1	v	56	LEU	N-CA-C	7.58	121.61	109.86
1	4	56	LEU	N-CA-C	7.58	121.60	109.86
1	Y	56	LEU	N-CA-C	7.57	121.60	109.86
1	y	56	LEU	N-CA-C	7.57	121.60	109.86
1	J	56	LEU	N-CA-C	7.57	121.59	109.86
1	N	56	LEU	N-CA-C	7.57	121.59	109.86
1	r	56	LEU	N-CA-C	7.57	121.59	109.86
1	9	56	LEU	N-CA-C	7.57	121.59	109.86
1	c	56	LEU	N-CA-C	7.57	121.59	109.86
1	f	56	LEU	N-CA-C	7.57	121.59	109.86
1	M	56	LEU	N-CA-C	7.57	121.59	109.86
1	a	56	LEU	N-CA-C	7.57	121.59	109.86
1	d	56	LEU	N-CA-C	7.57	121.59	109.86
1	i	56	LEU	N-CA-C	7.57	121.59	109.86
1	A	56	LEU	N-CA-C	7.56	121.58	109.86
1	P	56	LEU	N-CA-C	7.56	121.58	109.86
1	e	56	LEU	N-CA-C	7.56	121.58	109.86
1	x	56	LEU	N-CA-C	7.56	121.58	109.86
1	5	56	LEU	N-CA-C	7.56	121.58	109.86
1	w	56	LEU	N-CA-C	7.56	121.58	109.86
1	S	56	LEU	N-CA-C	7.56	121.58	109.86
1	o	56	LEU	N-CA-C	7.56	121.58	109.86
1	G	56	LEU	N-CA-C	7.56	121.57	109.86
1	l	56	LEU	N-CA-C	7.56	121.57	109.86
1	u	56	LEU	N-CA-C	7.56	121.58	109.86
1	j	56	LEU	N-CA-C	7.56	121.57	109.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	56	LEU	N-CA-C	7.55	121.57	109.86
1	T	56	LEU	N-CA-C	7.55	121.57	109.86
1	K	56	LEU	N-CA-C	7.55	121.56	109.86
1	W	56	LEU	N-CA-C	7.55	121.56	109.86
1	k	56	LEU	N-CA-C	7.55	121.56	109.86
1	n	56	LEU	N-CA-C	7.55	121.56	109.86
1	2	56	LEU	N-CA-C	7.55	121.56	109.86
1	L	56	LEU	N-CA-C	7.55	121.56	109.86
1	C	56	LEU	N-CA-C	7.55	121.56	109.86
1	D	56	LEU	N-CA-C	7.55	121.56	109.86
1	g	56	LEU	N-CA-C	7.55	121.56	109.86
1	h	56	LEU	N-CA-C	7.55	121.56	109.86
1	z	56	LEU	N-CA-C	7.55	121.56	109.86
1	Q	56	LEU	N-CA-C	7.54	121.56	109.86
1	H	56	LEU	N-CA-C	7.54	121.55	109.86
1	7	56	LEU	N-CA-C	7.54	121.55	109.86
1	O	56	LEU	N-CA-C	7.54	121.55	109.86
1	Z	56	LEU	N-CA-C	7.54	121.54	109.86
1	t	56	LEU	N-CA-C	7.54	121.54	109.86
1	p	56	LEU	N-CA-C	7.54	121.54	109.86
1	8	56	LEU	N-CA-C	7.54	121.54	109.86
1	F	56	LEU	N-CA-C	7.54	121.54	109.86
1	V	56	LEU	N-CA-C	7.53	121.53	109.86
1	q	56	LEU	N-CA-C	7.53	121.54	109.86
1	b	56	LEU	N-CA-C	7.53	121.53	109.86
1	6	56	LEU	N-CA-C	7.53	121.53	109.86
1	R	56	LEU	N-CA-C	7.53	121.53	109.86
1	s	56	LEU	N-CA-C	7.53	121.53	109.86
1	I	56	LEU	N-CA-C	7.53	121.52	109.86
1	X	56	LEU	N-CA-C	7.52	121.52	109.86
1	3	56	LEU	N-CA-C	7.52	121.52	109.86
1	E	56	LEU	N-CA-C	7.52	121.52	109.86
1	F	57	SER	N-CA-C	7.30	122.36	109.58
1	l	57	SER	N-CA-C	7.29	122.35	109.58
1	N	57	SER	N-CA-C	7.29	122.34	109.58
1	Y	57	SER	N-CA-C	7.29	122.33	109.58
1	o	57	SER	N-CA-C	7.29	122.33	109.58
1	p	57	SER	N-CA-C	7.29	122.33	109.58
1	2	57	SER	N-CA-C	7.28	122.32	109.58
1	4	57	SER	N-CA-C	7.28	122.32	109.58
1	G	57	SER	N-CA-C	7.28	122.31	109.58
1	w	57	SER	N-CA-C	7.28	122.32	109.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	57	SER	N-CA-C	7.28	122.31	109.58
1	O	57	SER	N-CA-C	7.28	122.31	109.58
1	e	57	SER	N-CA-C	7.28	122.31	109.58
1	r	57	SER	N-CA-C	7.28	122.31	109.58
1	B	57	SER	N-CA-C	7.27	122.31	109.58
1	a	57	SER	N-CA-C	7.27	122.31	109.58
1	z	57	SER	N-CA-C	7.27	122.31	109.58
1	V	57	SER	N-CA-C	7.27	122.31	109.58
1	u	57	SER	N-CA-C	7.27	122.31	109.58
1	j	57	SER	N-CA-C	7.27	122.30	109.58
1	P	57	SER	N-CA-C	7.27	122.30	109.58
1	k	57	SER	N-CA-C	7.27	122.30	109.58
1	H	57	SER	N-CA-C	7.27	122.30	109.58
1	I	57	SER	N-CA-C	7.27	122.30	109.58
1	6	57	SER	N-CA-C	7.27	122.30	109.58
1	W	57	SER	N-CA-C	7.27	122.30	109.58
1	1	57	SER	N-CA-C	7.26	122.29	109.58
1	Q	57	SER	N-CA-C	7.26	122.29	109.58
1	n	57	SER	N-CA-C	7.26	122.29	109.58
1	v	57	SER	N-CA-C	7.26	122.29	109.58
1	K	57	SER	N-CA-C	7.26	122.29	109.58
1	M	57	SER	N-CA-C	7.26	122.29	109.58
1	b	57	SER	N-CA-C	7.26	122.29	109.58
1	d	57	SER	N-CA-C	7.26	122.29	109.58
1	7	57	SER	N-CA-C	7.26	122.28	109.58
1	J	57	SER	N-CA-C	7.26	122.28	109.58
1	Z	57	SER	N-CA-C	7.26	122.28	109.58
1	q	57	SER	N-CA-C	7.26	122.28	109.58
1	L	57	SER	N-CA-C	7.26	122.28	109.58
1	D	57	SER	N-CA-C	7.26	122.28	109.58
1	T	57	SER	N-CA-C	7.26	122.28	109.58
1	y	57	SER	N-CA-C	7.26	122.28	109.58
1	3	57	SER	N-CA-C	7.25	122.27	109.58
1	S	57	SER	N-CA-C	7.25	122.27	109.58
1	h	57	SER	N-CA-C	7.25	122.27	109.58
1	c	57	SER	N-CA-C	7.25	122.27	109.58
1	g	57	SER	N-CA-C	7.25	122.27	109.58
1	5	57	SER	N-CA-C	7.25	122.27	109.58
1	9	57	SER	N-CA-C	7.25	122.26	109.58
1	m	57	SER	N-CA-C	7.25	122.27	109.58
1	t	57	SER	N-CA-C	7.25	122.27	109.58
1	8	57	SER	N-CA-C	7.25	122.26	109.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	57	SER	N-CA-C	7.25	122.26	109.58
1	E	57	SER	N-CA-C	7.25	122.26	109.58
1	s	57	SER	N-CA-C	7.24	122.26	109.58
1	A	57	SER	N-CA-C	7.24	122.25	109.58
1	R	57	SER	N-CA-C	7.24	122.25	109.58
1	X	57	SER	N-CA-C	7.24	122.25	109.58
1	f	57	SER	N-CA-C	7.24	122.25	109.58
1	x	57	SER	N-CA-C	7.24	122.25	109.58
1	5	366	VAL	CB-CA-C	-7.15	102.23	111.53
1	6	366	VAL	CB-CA-C	-7.15	102.23	111.53
1	A	366	VAL	CB-CA-C	-7.15	102.24	111.53
1	R	366	VAL	CB-CA-C	-7.15	102.24	111.53
1	B	366	VAL	CB-CA-C	-7.14	102.24	111.53
1	v	366	VAL	CB-CA-C	-7.14	102.25	111.53
1	W	366	VAL	CB-CA-C	-7.14	102.25	111.53
1	q	366	VAL	CB-CA-C	-7.14	102.25	111.53
1	w	366	VAL	CB-CA-C	-7.14	102.25	111.53
1	y	366	VAL	CB-CA-C	-7.13	102.25	111.53
1	L	366	VAL	CB-CA-C	-7.13	102.26	111.53
1	i	366	VAL	CB-CA-C	-7.13	102.26	111.53
1	s	366	VAL	CB-CA-C	-7.13	102.26	111.53
1	2	366	VAL	CB-CA-C	-7.13	102.27	111.53
1	Z	366	VAL	CB-CA-C	-7.13	102.27	111.53
1	Q	366	VAL	CB-CA-C	-7.12	102.27	111.53
1	j	366	VAL	CB-CA-C	-7.12	102.27	111.53
1	p	366	VAL	CB-CA-C	-7.12	102.27	111.53
1	l	366	VAL	CB-CA-C	-7.12	102.27	111.53
1	G	366	VAL	CB-CA-C	-7.12	102.28	111.53
1	n	366	VAL	CB-CA-C	-7.12	102.27	111.53
1	J	366	VAL	CB-CA-C	-7.12	102.28	111.53
1	t	366	VAL	CB-CA-C	-7.12	102.28	111.53
1	X	366	VAL	CB-CA-C	-7.12	102.28	111.53
1	7	366	VAL	CB-CA-C	-7.11	102.28	111.53
1	S	366	VAL	CB-CA-C	-7.11	102.28	111.53
1	a	366	VAL	CB-CA-C	-7.11	102.28	111.53
1	o	366	VAL	CB-CA-C	-7.11	102.28	111.53
1	k	366	VAL	CB-CA-C	-7.11	102.28	111.53
1	C	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	c	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	1	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	8	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	F	366	VAL	CB-CA-C	-7.11	102.29	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	h	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	O	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	e	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	g	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	x	366	VAL	CB-CA-C	-7.11	102.29	111.53
1	m	366	VAL	CB-CA-C	-7.10	102.30	111.53
1	E	366	VAL	CB-CA-C	-7.10	102.30	111.53
1	z	366	VAL	CB-CA-C	-7.10	102.30	111.53
1	9	366	VAL	CB-CA-C	-7.10	102.30	111.53
1	V	366	VAL	CB-CA-C	-7.10	102.30	111.53
1	f	366	VAL	CB-CA-C	-7.10	102.31	111.53
1	3	366	VAL	CB-CA-C	-7.09	102.31	111.53
1	H	366	VAL	CB-CA-C	-7.09	102.31	111.53
1	K	366	VAL	CB-CA-C	-7.09	102.31	111.53
1	P	366	VAL	CB-CA-C	-7.09	102.31	111.53
1	r	366	VAL	CB-CA-C	-7.09	102.31	111.53
1	T	366	VAL	CB-CA-C	-7.09	102.31	111.53
1	M	366	VAL	CB-CA-C	-7.08	102.32	111.53
1	N	366	VAL	CB-CA-C	-7.08	102.32	111.53
1	Y	366	VAL	CB-CA-C	-7.08	102.32	111.53
1	4	366	VAL	CB-CA-C	-7.08	102.33	111.53
1	I	366	VAL	CB-CA-C	-7.08	102.33	111.53
1	u	366	VAL	CB-CA-C	-7.08	102.33	111.53
1	D	366	VAL	CB-CA-C	-7.08	102.33	111.53
1	d	366	VAL	CB-CA-C	-7.07	102.34	111.53
1	J	429	VAL	N-CA-C	6.70	123.27	109.34
1	x	429	VAL	N-CA-C	6.70	123.27	109.34
1	n	429	VAL	N-CA-C	6.69	123.26	109.34
1	z	429	VAL	N-CA-C	6.69	123.25	109.34
1	5	429	VAL	N-CA-C	6.69	123.25	109.34
1	E	429	VAL	N-CA-C	6.69	123.25	109.34
1	o	429	VAL	N-CA-C	6.69	123.25	109.34
1	s	429	VAL	N-CA-C	6.69	123.25	109.34
1	F	429	VAL	N-CA-C	6.68	123.24	109.34
1	Y	429	VAL	N-CA-C	6.68	123.25	109.34
1	b	429	VAL	N-CA-C	6.68	123.24	109.34
1	7	429	VAL	N-CA-C	6.68	123.24	109.34
1	L	429	VAL	N-CA-C	6.68	123.24	109.34
1	V	429	VAL	N-CA-C	6.68	123.24	109.34
1	M	429	VAL	N-CA-C	6.68	123.24	109.34
1	X	429	VAL	N-CA-C	6.68	123.24	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	429	VAL	N-CA-C	6.68	123.24	109.34
1	r	429	VAL	N-CA-C	6.68	123.24	109.34
1	T	429	VAL	N-CA-C	6.68	123.23	109.34
1	p	429	VAL	N-CA-C	6.68	123.23	109.34
1	u	429	VAL	N-CA-C	6.68	123.23	109.34
1	j	429	VAL	N-CA-C	6.68	123.23	109.34
1	l	429	VAL	N-CA-C	6.67	123.22	109.34
1	l	429	VAL	N-CA-C	6.67	123.22	109.34
1	B	429	VAL	N-CA-C	6.67	123.22	109.34
1	O	429	VAL	N-CA-C	6.67	123.22	109.34
1	h	429	VAL	N-CA-C	6.67	123.22	109.34
1	i	429	VAL	N-CA-C	6.67	123.22	109.34
1	2	429	VAL	N-CA-C	6.67	123.22	109.34
1	3	429	VAL	N-CA-C	6.67	123.22	109.34
1	4	429	VAL	N-CA-C	6.67	123.22	109.34
1	A	429	VAL	N-CA-C	6.67	123.22	109.34
1	K	429	VAL	N-CA-C	6.67	123.22	109.34
1	e	429	VAL	N-CA-C	6.67	123.22	109.34
1	q	429	VAL	N-CA-C	6.67	123.22	109.34
1	R	429	VAL	N-CA-C	6.67	123.21	109.34
1	S	429	VAL	N-CA-C	6.67	123.22	109.34
1	6	429	VAL	N-CA-C	6.67	123.21	109.34
1	Z	429	VAL	N-CA-C	6.67	123.21	109.34
1	v	429	VAL	N-CA-C	6.67	123.21	109.34
1	W	429	VAL	N-CA-C	6.67	123.21	109.34
1	d	429	VAL	N-CA-C	6.67	123.20	109.34
1	m	429	VAL	N-CA-C	6.67	123.21	109.34
1	t	429	VAL	N-CA-C	6.67	123.21	109.34
1	P	429	VAL	N-CA-C	6.67	123.20	109.34
1	Q	429	VAL	N-CA-C	6.67	123.20	109.34
1	a	429	VAL	N-CA-C	6.67	123.20	109.34
1	8	429	VAL	N-CA-C	6.66	123.20	109.34
1	D	429	VAL	N-CA-C	6.66	123.20	109.34
1	I	429	VAL	N-CA-C	6.66	123.19	109.34
1	N	429	VAL	N-CA-C	6.66	123.19	109.34
1	c	429	VAL	N-CA-C	6.66	123.19	109.34
1	f	429	VAL	N-CA-C	6.66	123.19	109.34
1	w	429	VAL	N-CA-C	6.66	123.19	109.34
1	y	429	VAL	N-CA-C	6.66	123.20	109.34
1	9	429	VAL	N-CA-C	6.66	123.19	109.34
1	C	429	VAL	N-CA-C	6.66	123.19	109.34
1	G	429	VAL	N-CA-C	6.66	123.19	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	429	VAL	N-CA-C	6.66	123.19	109.34
1	k	429	VAL	N-CA-C	6.66	123.18	109.34
1	V	423	PHE	N-CA-C	-6.46	98.87	109.40
1	d	423	PHE	N-CA-C	-6.46	98.87	109.40
1	X	423	PHE	N-CA-C	-6.45	98.89	109.40
1	A	423	PHE	N-CA-C	-6.45	98.89	109.40
1	f	423	PHE	N-CA-C	-6.45	98.89	109.40
1	k	423	PHE	N-CA-C	-6.45	98.89	109.40
1	J	423	PHE	N-CA-C	-6.44	98.90	109.40
1	S	423	PHE	N-CA-C	-6.44	98.90	109.40
1	W	423	PHE	N-CA-C	-6.44	98.90	109.40
1	9	423	PHE	N-CA-C	-6.44	98.91	109.40
1	z	423	PHE	N-CA-C	-6.44	98.91	109.40
1	j	423	PHE	N-CA-C	-6.44	98.91	109.40
1	8	423	PHE	N-CA-C	-6.43	98.91	109.40
1	Y	423	PHE	N-CA-C	-6.43	98.91	109.40
1	b	423	PHE	N-CA-C	-6.43	98.91	109.40
1	g	423	PHE	N-CA-C	-6.43	98.91	109.40
1	q	423	PHE	N-CA-C	-6.43	98.91	109.40
1	w	423	PHE	N-CA-C	-6.43	98.91	109.40
1	3	423	PHE	N-CA-C	-6.43	98.92	109.40
1	N	423	PHE	N-CA-C	-6.43	98.91	109.40
1	n	423	PHE	N-CA-C	-6.43	98.92	109.40
1	E	423	PHE	N-CA-C	-6.43	98.92	109.40
1	4	423	PHE	N-CA-C	-6.43	98.92	109.40
1	5	423	PHE	N-CA-C	-6.43	98.92	109.40
1	I	423	PHE	N-CA-C	-6.43	98.92	109.40
1	a	423	PHE	N-CA-C	-6.43	98.92	109.40
1	o	423	PHE	N-CA-C	-6.43	98.92	109.40
1	u	423	PHE	N-CA-C	-6.43	98.92	109.40
1	C	423	PHE	N-CA-C	-6.43	98.92	109.40
1	H	423	PHE	N-CA-C	-6.43	98.92	109.40
1	K	423	PHE	N-CA-C	-6.43	98.92	109.40
1	t	423	PHE	N-CA-C	-6.43	98.92	109.40
1	l	423	PHE	N-CA-C	-6.42	98.93	109.40
1	M	423	PHE	N-CA-C	-6.42	98.93	109.40
1	e	423	PHE	N-CA-C	-6.42	98.93	109.40
1	r	423	PHE	N-CA-C	-6.42	98.93	109.40
1	x	423	PHE	N-CA-C	-6.42	98.93	109.40
1	L	423	PHE	N-CA-C	-6.42	98.93	109.40
1	Q	423	PHE	N-CA-C	-6.42	98.93	109.40
1	D	423	PHE	N-CA-C	-6.42	98.93	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	423	PHE	N-CA-C	-6.42	98.93	109.40
1	s	423	PHE	N-CA-C	-6.42	98.93	109.40
1	2	423	PHE	N-CA-C	-6.42	98.94	109.40
1	7	423	PHE	N-CA-C	-6.42	98.94	109.40
1	p	423	PHE	N-CA-C	-6.42	98.94	109.40
1	v	423	PHE	N-CA-C	-6.42	98.94	109.40
1	Z	423	PHE	N-CA-C	-6.42	98.94	109.40
1	y	423	PHE	N-CA-C	-6.42	98.94	109.40
1	P	423	PHE	N-CA-C	-6.41	98.94	109.40
1	i	423	PHE	N-CA-C	-6.41	98.95	109.40
1	l	423	PHE	N-CA-C	-6.41	98.95	109.40
1	G	423	PHE	N-CA-C	-6.41	98.95	109.40
1	c	423	PHE	N-CA-C	-6.41	98.95	109.40
1	h	423	PHE	N-CA-C	-6.41	98.95	109.40
1	B	423	PHE	N-CA-C	-6.41	98.95	109.40
1	T	423	PHE	N-CA-C	-6.41	98.95	109.40
1	m	423	PHE	N-CA-C	-6.41	98.95	109.40
1	6	423	PHE	N-CA-C	-6.41	98.96	109.40
1	F	423	PHE	N-CA-C	-6.40	98.96	109.40
1	O	423	PHE	N-CA-C	-6.40	98.97	109.40
1	Z	541	ARG	N-CA-C	6.26	120.29	111.52
1	y	541	ARG	N-CA-C	6.26	120.28	111.52
1	b	541	ARG	N-CA-C	6.25	120.27	111.52
1	t	541	ARG	N-CA-C	6.25	120.27	111.52
1	K	541	ARG	N-CA-C	6.25	120.27	111.52
1	g	541	ARG	N-CA-C	6.25	120.27	111.52
1	v	541	ARG	N-CA-C	6.24	120.25	111.52
1	M	541	ARG	N-CA-C	6.24	120.25	111.52
1	l	541	ARG	N-CA-C	6.24	120.25	111.52
1	w	541	ARG	N-CA-C	6.24	120.25	111.52
1	9	541	ARG	N-CA-C	6.24	120.25	111.52
1	I	541	ARG	N-CA-C	6.24	120.25	111.52
1	s	541	ARG	N-CA-C	6.24	120.25	111.52
1	C	541	ARG	N-CA-C	6.23	120.25	111.52
1	Q	541	ARG	N-CA-C	6.23	120.25	111.52
1	V	541	ARG	N-CA-C	6.23	120.25	111.52
1	p	541	ARG	N-CA-C	6.23	120.25	111.52
1	3	541	ARG	N-CA-C	6.23	120.24	111.52
1	8	541	ARG	N-CA-C	6.23	120.24	111.52
1	f	541	ARG	N-CA-C	6.23	120.24	111.52
1	Y	541	ARG	N-CA-C	6.23	120.24	111.52
1	P	541	ARG	N-CA-C	6.23	120.24	111.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	541	ARG	N-CA-C	6.23	120.24	111.52
1	u	541	ARG	N-CA-C	6.23	120.24	111.52
1	q	541	ARG	N-CA-C	6.23	120.24	111.52
1	1	541	ARG	N-CA-C	6.22	120.23	111.52
1	2	541	ARG	N-CA-C	6.22	120.23	111.52
1	R	541	ARG	N-CA-C	6.22	120.23	111.52
1	X	541	ARG	N-CA-C	6.22	120.23	111.52
1	e	541	ARG	N-CA-C	6.22	120.24	111.52
1	5	541	ARG	N-CA-C	6.22	120.23	111.52
1	G	541	ARG	N-CA-C	6.22	120.23	111.52
1	L	541	ARG	N-CA-C	6.22	120.23	111.52
1	O	541	ARG	N-CA-C	6.22	120.23	111.52
1	S	541	ARG	N-CA-C	6.22	120.23	111.52
1	a	541	ARG	N-CA-C	6.22	120.23	111.52
1	i	541	ARG	N-CA-C	6.22	120.23	111.52
1	F	541	ARG	N-CA-C	6.22	120.23	111.52
1	o	541	ARG	N-CA-C	6.22	120.23	111.52
1	6	541	ARG	N-CA-C	6.22	120.22	111.52
1	N	541	ARG	N-CA-C	6.22	120.22	111.52
1	k	541	ARG	N-CA-C	6.22	120.22	111.52
1	r	541	ARG	N-CA-C	6.22	120.22	111.52
1	7	541	ARG	N-CA-C	6.21	120.22	111.52
1	d	541	ARG	N-CA-C	6.21	120.22	111.52
1	n	541	ARG	N-CA-C	6.21	120.22	111.52
1	z	541	ARG	N-CA-C	6.21	120.22	111.52
1	B	541	ARG	N-CA-C	6.21	120.22	111.52
1	H	541	ARG	N-CA-C	6.21	120.22	111.52
1	A	541	ARG	N-CA-C	6.21	120.21	111.52
1	D	541	ARG	N-CA-C	6.21	120.21	111.52
1	E	541	ARG	N-CA-C	6.21	120.21	111.52
1	h	541	ARG	N-CA-C	6.21	120.21	111.52
1	x	541	ARG	N-CA-C	6.21	120.21	111.52
1	m	541	ARG	N-CA-C	6.21	120.21	111.52
1	c	541	ARG	N-CA-C	6.20	120.20	111.52
1	j	541	ARG	N-CA-C	6.20	120.20	111.52
1	J	541	ARG	N-CA-C	6.20	120.20	111.52
1	T	541	ARG	N-CA-C	6.20	120.20	111.52
1	4	541	ARG	N-CA-C	6.20	120.19	111.52
1	T	421	VAL	CA-C-N	5.85	130.71	122.46
1	T	421	VAL	C-N-CA	5.85	130.71	122.46
1	j	421	VAL	CA-C-N	5.85	130.70	122.46
1	j	421	VAL	C-N-CA	5.85	130.70	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	421	VAL	CA-C-N	5.84	130.69	122.46
1	e	421	VAL	C-N-CA	5.84	130.69	122.46
1	N	421	VAL	CA-C-N	5.83	130.68	122.46
1	N	421	VAL	C-N-CA	5.83	130.68	122.46
1	m	421	VAL	CA-C-N	5.83	130.68	122.46
1	m	421	VAL	C-N-CA	5.83	130.68	122.46
1	6	421	VAL	CA-C-N	5.83	130.68	122.46
1	6	421	VAL	C-N-CA	5.83	130.68	122.46
1	5	421	VAL	CA-C-N	5.83	130.67	122.46
1	5	421	VAL	C-N-CA	5.83	130.67	122.46
1	K	421	VAL	CA-C-N	5.83	130.67	122.46
1	K	421	VAL	C-N-CA	5.83	130.67	122.46
1	O	421	VAL	CA-C-N	5.83	130.67	122.46
1	O	421	VAL	C-N-CA	5.83	130.67	122.46
1	V	421	VAL	CA-C-N	5.82	130.67	122.46
1	V	421	VAL	C-N-CA	5.82	130.67	122.46
1	w	421	VAL	CA-C-N	5.82	130.67	122.46
1	w	421	VAL	C-N-CA	5.82	130.67	122.46
1	p	421	VAL	CA-C-N	5.82	130.66	122.46
1	p	421	VAL	C-N-CA	5.82	130.66	122.46
1	R	421	VAL	CA-C-N	5.81	130.66	122.46
1	R	421	VAL	C-N-CA	5.81	130.66	122.46
1	g	421	VAL	CA-C-N	5.81	130.66	122.46
1	g	421	VAL	C-N-CA	5.81	130.66	122.46
1	A	421	VAL	CA-C-N	5.81	130.65	122.46
1	A	421	VAL	C-N-CA	5.81	130.65	122.46
1	s	421	VAL	CA-C-N	5.81	130.65	122.46
1	s	421	VAL	C-N-CA	5.81	130.65	122.46
1	c	421	VAL	CA-C-N	5.81	130.65	122.46
1	c	421	VAL	C-N-CA	5.81	130.65	122.46
1	l	421	VAL	CA-C-N	5.81	130.65	122.46
1	l	421	VAL	C-N-CA	5.81	130.65	122.46
1	F	421	VAL	CA-C-N	5.81	130.65	122.46
1	F	421	VAL	C-N-CA	5.81	130.65	122.46
1	p	364	TYR	N-CA-C	-5.81	98.24	108.23
1	x	421	VAL	CA-C-N	5.81	130.65	122.46
1	x	421	VAL	C-N-CA	5.81	130.65	122.46
1	z	421	VAL	CA-C-N	5.81	130.65	122.46
1	z	421	VAL	C-N-CA	5.81	130.65	122.46
1	3	421	VAL	CA-C-N	5.81	130.65	122.46
1	3	421	VAL	C-N-CA	5.81	130.65	122.46
1	n	421	VAL	CA-C-N	5.81	130.65	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	421	VAL	C-N-CA	5.81	130.65	122.46
1	r	421	VAL	CA-C-N	5.81	130.65	122.46
1	r	421	VAL	C-N-CA	5.81	130.65	122.46
1	4	421	VAL	CA-C-N	5.80	130.64	122.46
1	4	421	VAL	C-N-CA	5.80	130.64	122.46
1	o	421	VAL	CA-C-N	5.80	130.64	122.46
1	o	421	VAL	C-N-CA	5.80	130.64	122.46
1	1	421	VAL	CA-C-N	5.80	130.64	122.46
1	1	421	VAL	C-N-CA	5.80	130.64	122.46
1	C	364	TYR	N-CA-C	-5.80	98.25	108.23
1	i	421	VAL	CA-C-N	5.80	130.64	122.46
1	i	421	VAL	C-N-CA	5.80	130.64	122.46
1	k	421	VAL	CA-C-N	5.80	130.64	122.46
1	k	421	VAL	C-N-CA	5.80	130.64	122.46
1	C	421	VAL	CA-C-N	5.80	130.64	122.46
1	C	421	VAL	C-N-CA	5.80	130.64	122.46
1	d	421	VAL	CA-C-N	5.80	130.64	122.46
1	d	421	VAL	C-N-CA	5.80	130.64	122.46
1	g	364	TYR	N-CA-C	-5.80	98.25	108.23
1	H	421	VAL	CA-C-N	5.80	130.64	122.46
1	H	421	VAL	C-N-CA	5.80	130.64	122.46
1	L	421	VAL	CA-C-N	5.80	130.64	122.46
1	L	421	VAL	C-N-CA	5.80	130.64	122.46
1	M	364	TYR	N-CA-C	-5.80	98.26	108.23
1	k	364	TYR	N-CA-C	-5.80	98.26	108.23
1	q	364	TYR	N-CA-C	-5.80	98.26	108.23
1	v	364	TYR	N-CA-C	-5.80	98.25	108.23
1	w	364	TYR	N-CA-C	-5.80	98.25	108.23
1	y	421	VAL	CA-C-N	5.80	130.64	122.46
1	y	421	VAL	C-N-CA	5.80	130.64	122.46
1	M	421	VAL	CA-C-N	5.80	130.64	122.46
1	M	421	VAL	C-N-CA	5.80	130.64	122.46
1	b	421	VAL	CA-C-N	5.80	130.63	122.46
1	b	421	VAL	C-N-CA	5.80	130.63	122.46
1	2	421	VAL	CA-C-N	5.80	130.63	122.46
1	2	421	VAL	C-N-CA	5.80	130.63	122.46
1	B	421	VAL	CA-C-N	5.80	130.63	122.46
1	B	421	VAL	C-N-CA	5.80	130.63	122.46
1	I	421	VAL	CA-C-N	5.80	130.63	122.46
1	I	421	VAL	C-N-CA	5.80	130.63	122.46
1	Q	421	VAL	CA-C-N	5.80	130.63	122.46
1	Q	421	VAL	C-N-CA	5.80	130.63	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	364	TYR	N-CA-C	-5.79	98.26	108.23
1	B	364	TYR	N-CA-C	-5.79	98.27	108.23
1	G	421	VAL	CA-C-N	5.79	130.63	122.46
1	G	421	VAL	C-N-CA	5.79	130.63	122.46
1	J	364	TYR	N-CA-C	-5.79	98.27	108.23
1	X	364	TYR	N-CA-C	-5.79	98.27	108.23
1	9	421	VAL	CA-C-N	5.79	130.63	122.46
1	9	421	VAL	C-N-CA	5.79	130.63	122.46
1	D	364	TYR	N-CA-C	-5.79	98.27	108.23
1	F	364	TYR	N-CA-C	-5.79	98.27	108.23
1	h	364	TYR	N-CA-C	-5.79	98.27	108.23
1	G	364	TYR	N-CA-C	-5.79	98.27	108.23
1	J	421	VAL	CA-C-N	5.79	130.62	122.46
1	J	421	VAL	C-N-CA	5.79	130.62	122.46
1	a	421	VAL	CA-C-N	5.79	130.62	122.46
1	a	421	VAL	C-N-CA	5.79	130.62	122.46
1	9	364	TYR	N-CA-C	-5.79	98.28	108.23
1	K	364	TYR	N-CA-C	-5.79	98.28	108.23
1	V	364	TYR	N-CA-C	-5.79	98.28	108.23
1	W	421	VAL	CA-C-N	5.79	130.62	122.46
1	W	421	VAL	C-N-CA	5.79	130.62	122.46
1	d	364	TYR	N-CA-C	-5.79	98.28	108.23
1	u	421	VAL	CA-C-N	5.79	130.62	122.46
1	u	421	VAL	C-N-CA	5.79	130.62	122.46
1	A	364	TYR	N-CA-C	-5.79	98.28	108.23
1	Z	364	TYR	N-CA-C	-5.79	98.28	108.23
1	h	421	VAL	CA-C-N	5.79	130.62	122.46
1	h	421	VAL	C-N-CA	5.79	130.62	122.46
1	j	364	TYR	N-CA-C	-5.79	98.28	108.23
1	r	364	TYR	N-CA-C	-5.79	98.28	108.23
1	v	421	VAL	CA-C-N	5.79	130.62	122.46
1	v	421	VAL	C-N-CA	5.79	130.62	122.46
1	8	421	VAL	CA-C-N	5.78	130.61	122.46
1	8	421	VAL	C-N-CA	5.78	130.61	122.46
1	P	364	TYR	N-CA-C	-5.78	98.28	108.23
1	y	364	TYR	N-CA-C	-5.78	98.28	108.23
1	5	364	TYR	N-CA-C	-5.78	98.29	108.23
1	X	421	VAL	CA-C-N	5.78	130.61	122.46
1	X	421	VAL	C-N-CA	5.78	130.61	122.46
1	t	421	VAL	CA-C-N	5.78	130.61	122.46
1	t	421	VAL	C-N-CA	5.78	130.61	122.46
1	1	364	TYR	N-CA-C	-5.78	98.29	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	421	VAL	CA-C-N	5.78	130.61	122.46
1	7	421	VAL	C-N-CA	5.78	130.61	122.46
1	D	421	VAL	CA-C-N	5.78	130.61	122.46
1	D	421	VAL	C-N-CA	5.78	130.61	122.46
1	m	364	TYR	N-CA-C	-5.78	98.29	108.23
1	E	421	VAL	CA-C-N	5.78	130.61	122.46
1	E	421	VAL	C-N-CA	5.78	130.61	122.46
1	e	364	TYR	N-CA-C	-5.78	98.29	108.23
1	H	364	TYR	N-CA-C	-5.78	98.29	108.23
1	6	364	TYR	N-CA-C	-5.78	98.30	108.23
1	I	364	TYR	N-CA-C	-5.78	98.30	108.23
1	N	364	TYR	N-CA-C	-5.78	98.30	108.23
1	O	364	TYR	N-CA-C	-5.78	98.30	108.23
1	P	421	VAL	CA-C-N	5.78	130.60	122.46
1	P	421	VAL	C-N-CA	5.78	130.60	122.46
1	Y	421	VAL	CA-C-N	5.78	130.60	122.46
1	Y	421	VAL	C-N-CA	5.78	130.60	122.46
1	f	421	VAL	CA-C-N	5.78	130.60	122.46
1	f	421	VAL	C-N-CA	5.78	130.60	122.46
1	3	364	TYR	N-CA-C	-5.77	98.30	108.23
1	8	364	TYR	N-CA-C	-5.77	98.30	108.23
1	Q	364	TYR	N-CA-C	-5.77	98.30	108.23
1	Z	421	VAL	CA-C-N	5.77	130.60	122.46
1	Z	421	VAL	C-N-CA	5.77	130.60	122.46
1	S	364	TYR	N-CA-C	-5.77	98.30	108.23
1	W	364	TYR	N-CA-C	-5.77	98.30	108.23
1	c	364	TYR	N-CA-C	-5.77	98.30	108.23
1	o	364	TYR	N-CA-C	-5.77	98.30	108.23
1	t	364	TYR	N-CA-C	-5.77	98.30	108.23
1	s	364	TYR	N-CA-C	-5.77	98.30	108.23
1	E	364	TYR	N-CA-C	-5.77	98.31	108.23
1	L	364	TYR	N-CA-C	-5.77	98.31	108.23
1	Y	364	TYR	N-CA-C	-5.77	98.31	108.23
1	2	364	TYR	N-CA-C	-5.77	98.31	108.23
1	T	364	TYR	N-CA-C	-5.77	98.31	108.23
1	q	421	VAL	CA-C-N	5.77	130.59	122.46
1	q	421	VAL	C-N-CA	5.77	130.59	122.46
1	u	364	TYR	N-CA-C	-5.77	98.31	108.23
1	x	364	TYR	N-CA-C	-5.77	98.31	108.23
1	S	421	VAL	CA-C-N	5.77	130.59	122.46
1	S	421	VAL	C-N-CA	5.77	130.59	122.46
1	b	364	TYR	N-CA-C	-5.77	98.31	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	364	TYR	N-CA-C	-5.76	98.31	108.23
1	n	364	TYR	N-CA-C	-5.76	98.31	108.23
1	z	364	TYR	N-CA-C	-5.76	98.32	108.23
1	4	364	TYR	N-CA-C	-5.76	98.32	108.23
1	a	364	TYR	N-CA-C	-5.76	98.32	108.23
1	l	364	TYR	N-CA-C	-5.76	98.32	108.23
1	f	364	TYR	N-CA-C	-5.76	98.33	108.23
1	7	364	TYR	N-CA-C	-5.75	98.34	108.23
1	N	422	THR	CB-CA-C	-5.74	103.34	111.95
1	6	422	THR	CB-CA-C	-5.74	103.34	111.95
1	F	422	THR	CB-CA-C	-5.73	103.35	111.95
1	c	422	THR	CB-CA-C	-5.73	103.36	111.95
1	t	422	THR	CB-CA-C	-5.73	103.36	111.95
1	K	422	THR	CB-CA-C	-5.73	103.36	111.95
1	R	422	THR	CB-CA-C	-5.73	103.36	111.95
1	a	422	THR	CB-CA-C	-5.73	103.36	111.95
1	w	422	THR	CB-CA-C	-5.73	103.36	111.95
1	i	422	THR	CB-CA-C	-5.72	103.36	111.95
1	j	422	THR	CB-CA-C	-5.72	103.36	111.95
1	L	422	THR	CB-CA-C	-5.72	103.37	111.95
1	n	422	THR	CB-CA-C	-5.72	103.37	111.95
1	o	422	THR	CB-CA-C	-5.72	103.37	111.95
1	8	422	THR	CB-CA-C	-5.72	103.37	111.95
1	p	422	THR	CB-CA-C	-5.72	103.37	111.95
1	5	422	THR	CB-CA-C	-5.72	103.37	111.95
1	T	422	THR	CB-CA-C	-5.72	103.37	111.95
1	e	422	THR	CB-CA-C	-5.72	103.37	111.95
1	r	422	THR	CB-CA-C	-5.72	103.37	111.95
1	3	422	THR	CB-CA-C	-5.72	103.37	111.95
1	B	422	THR	CB-CA-C	-5.72	103.37	111.95
1	h	422	THR	CB-CA-C	-5.72	103.38	111.95
1	9	422	THR	CB-CA-C	-5.71	103.38	111.95
1	H	422	THR	CB-CA-C	-5.71	103.38	111.95
1	I	422	THR	CB-CA-C	-5.71	103.38	111.95
1	d	422	THR	CB-CA-C	-5.71	103.38	111.95
1	l	422	THR	CB-CA-C	-5.71	103.38	111.95
1	x	422	THR	CB-CA-C	-5.71	103.38	111.95
1	m	422	THR	CB-CA-C	-5.71	103.38	111.95
1	1	422	THR	CB-CA-C	-5.71	103.38	111.95
1	2	422	THR	CB-CA-C	-5.71	103.38	111.95
1	A	422	THR	CB-CA-C	-5.71	103.38	111.95
1	M	422	THR	CB-CA-C	-5.71	103.38	111.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	422	THR	CB-CA-C	-5.71	103.39	111.95
1	O	422	THR	CB-CA-C	-5.71	103.39	111.95
1	P	422	THR	CB-CA-C	-5.71	103.39	111.95
1	Y	422	THR	CB-CA-C	-5.71	103.39	111.95
1	b	422	THR	CB-CA-C	-5.71	103.39	111.95
1	q	422	THR	CB-CA-C	-5.71	103.39	111.95
1	J	422	THR	CB-CA-C	-5.71	103.39	111.95
1	Q	422	THR	CB-CA-C	-5.71	103.39	111.95
1	v	422	THR	CB-CA-C	-5.71	103.39	111.95
1	z	422	THR	CB-CA-C	-5.71	103.39	111.95
1	E	422	THR	CB-CA-C	-5.71	103.39	111.95
1	C	422	THR	CB-CA-C	-5.70	103.39	111.95
1	D	422	THR	CB-CA-C	-5.70	103.40	111.95
1	G	422	THR	CB-CA-C	-5.70	103.40	111.95
1	4	422	THR	CB-CA-C	-5.70	103.40	111.95
1	Z	422	THR	CB-CA-C	-5.70	103.40	111.95
1	W	422	THR	CB-CA-C	-5.70	103.41	111.95
1	f	422	THR	CB-CA-C	-5.70	103.41	111.95
1	y	422	THR	CB-CA-C	-5.70	103.41	111.95
1	g	422	THR	CB-CA-C	-5.69	103.41	111.95
1	k	422	THR	CB-CA-C	-5.69	103.41	111.95
1	u	422	THR	CB-CA-C	-5.69	103.41	111.95
1	7	422	THR	CB-CA-C	-5.69	103.42	111.95
1	V	422	THR	CB-CA-C	-5.69	103.42	111.95
1	X	422	THR	CB-CA-C	-5.69	103.42	111.95
1	7	350	ILE	N-CA-C	5.68	114.79	106.55
1	p	350	ILE	N-CA-C	5.68	114.79	106.55
1	s	422	THR	CB-CA-C	-5.68	103.43	111.95
1	Q	350	ILE	N-CA-C	5.68	114.79	106.55
1	8	350	ILE	N-CA-C	5.68	114.78	106.55
1	y	350	ILE	N-CA-C	5.68	114.78	106.55
1	E	350	ILE	N-CA-C	5.67	114.78	106.55
1	2	350	ILE	N-CA-C	5.67	114.77	106.55
1	v	350	ILE	N-CA-C	5.67	114.78	106.55
1	P	350	ILE	N-CA-C	5.67	114.77	106.55
1	J	350	ILE	N-CA-C	5.67	114.77	106.55
1	x	350	ILE	N-CA-C	5.67	114.77	106.55
1	o	350	ILE	N-CA-C	5.66	114.76	106.55
1	s	350	ILE	N-CA-C	5.66	114.76	106.55
1	X	350	ILE	N-CA-C	5.66	114.76	106.55
1	m	350	ILE	N-CA-C	5.66	114.76	106.55
1	6	350	ILE	N-CA-C	5.66	114.76	106.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	350	ILE	N-CA-C	5.66	114.76	106.55
1	9	350	ILE	N-CA-C	5.66	114.75	106.55
1	R	350	ILE	N-CA-C	5.66	114.75	106.55
1	W	350	ILE	N-CA-C	5.66	114.75	106.55
1	f	350	ILE	N-CA-C	5.66	114.75	106.55
1	H	350	ILE	N-CA-C	5.66	114.75	106.55
1	d	350	ILE	N-CA-C	5.66	114.75	106.55
1	C	350	ILE	N-CA-C	5.66	114.75	106.55
1	z	350	ILE	N-CA-C	5.65	114.75	106.55
1	K	350	ILE	N-CA-C	5.65	114.75	106.55
1	l	350	ILE	N-CA-C	5.65	114.74	106.55
1	B	350	ILE	N-CA-C	5.65	114.74	106.55
1	D	350	ILE	N-CA-C	5.65	114.74	106.55
1	O	350	ILE	N-CA-C	5.65	114.74	106.55
1	T	350	ILE	N-CA-C	5.65	114.74	106.55
1	h	350	ILE	N-CA-C	5.65	114.74	106.55
1	j	350	ILE	N-CA-C	5.65	114.74	106.55
1	N	350	ILE	N-CA-C	5.65	114.74	106.55
1	Z	350	ILE	N-CA-C	5.65	114.74	106.55
1	c	350	ILE	N-CA-C	5.65	114.74	106.55
1	4	350	ILE	N-CA-C	5.65	114.74	106.55
1	A	350	ILE	N-CA-C	5.65	114.74	106.55
1	F	350	ILE	N-CA-C	5.65	114.74	106.55
1	Y	350	ILE	N-CA-C	5.65	114.74	106.55
1	g	350	ILE	N-CA-C	5.65	114.74	106.55
1	e	350	ILE	N-CA-C	5.64	114.73	106.55
1	r	350	ILE	N-CA-C	5.64	114.74	106.55
1	w	350	ILE	N-CA-C	5.64	114.73	106.55
1	L	350	ILE	N-CA-C	5.64	114.73	106.55
1	V	350	ILE	N-CA-C	5.64	114.72	106.55
1	n	350	ILE	N-CA-C	5.64	114.72	106.55
1	G	350	ILE	N-CA-C	5.63	114.72	106.55
1	I	350	ILE	N-CA-C	5.63	114.72	106.55
1	i	350	ILE	N-CA-C	5.63	114.72	106.55
1	t	350	ILE	N-CA-C	5.63	114.72	106.55
1	S	350	ILE	N-CA-C	5.63	114.71	106.55
1	b	350	ILE	N-CA-C	5.63	114.71	106.55
1	l	350	ILE	N-CA-C	5.63	114.71	106.55
1	u	350	ILE	N-CA-C	5.63	114.71	106.55
1	3	350	ILE	N-CA-C	5.62	114.71	106.55
1	q	350	ILE	N-CA-C	5.62	114.71	106.55
1	M	350	ILE	N-CA-C	5.62	114.70	106.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	350	ILE	N-CA-C	5.62	114.70	106.55
1	a	350	ILE	N-CA-C	5.61	114.69	106.55
1	m	363	SER	N-CA-C	5.58	118.06	109.07
1	f	363	SER	N-CA-C	5.57	118.04	109.07
1	W	363	SER	N-CA-C	5.57	118.03	109.07
1	V	363	SER	N-CA-C	5.56	118.03	109.07
1	8	363	SER	N-CA-C	5.56	118.02	109.07
1	R	363	SER	N-CA-C	5.56	118.02	109.07
1	7	363	SER	N-CA-C	5.55	118.01	109.07
1	O	363	SER	N-CA-C	5.55	118.01	109.07
1	p	363	SER	N-CA-C	5.55	118.01	109.07
1	M	363	SER	N-CA-C	5.55	118.01	109.07
1	g	363	SER	N-CA-C	5.55	118.01	109.07
1	r	363	SER	N-CA-C	5.55	118.01	109.07
1	s	363	SER	N-CA-C	5.55	118.01	109.07
1	v	363	SER	N-CA-C	5.55	118.01	109.07
1	5	363	SER	N-CA-C	5.55	118.00	109.07
1	B	363	SER	N-CA-C	5.55	118.01	109.07
1	C	363	SER	N-CA-C	5.55	118.00	109.07
1	H	363	SER	N-CA-C	5.55	118.01	109.07
1	T	363	SER	N-CA-C	5.55	118.00	109.07
1	e	363	SER	N-CA-C	5.55	118.00	109.07
1	A	363	SER	N-CA-C	5.55	118.00	109.07
1	D	363	SER	N-CA-C	5.55	118.00	109.07
1	u	363	SER	N-CA-C	5.55	118.00	109.07
1	S	363	SER	N-CA-C	5.54	118.00	109.07
1	l	363	SER	N-CA-C	5.54	118.00	109.07
1	9	363	SER	N-CA-C	5.54	118.00	109.07
1	c	363	SER	N-CA-C	5.54	117.99	109.07
1	t	363	SER	N-CA-C	5.54	117.99	109.07
1	X	363	SER	N-CA-C	5.54	117.99	109.07
1	n	363	SER	N-CA-C	5.54	117.99	109.07
1	y	363	SER	N-CA-C	5.54	117.99	109.07
1	z	363	SER	N-CA-C	5.54	117.99	109.07
1	F	363	SER	N-CA-C	5.54	117.99	109.07
1	I	363	SER	N-CA-C	5.54	117.99	109.07
1	k	363	SER	N-CA-C	5.54	117.99	109.07
1	x	363	SER	N-CA-C	5.54	117.99	109.07
1	3	363	SER	N-CA-C	5.54	117.98	109.07
1	4	363	SER	N-CA-C	5.53	117.98	109.07
1	G	363	SER	N-CA-C	5.53	117.98	109.07
1	N	363	SER	N-CA-C	5.53	117.98	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	363	SER	N-CA-C	5.53	117.98	109.07
1	d	363	SER	N-CA-C	5.53	117.98	109.07
1	j	363	SER	N-CA-C	5.53	117.97	109.07
1	b	363	SER	N-CA-C	5.53	117.97	109.07
1	w	363	SER	N-CA-C	5.53	117.97	109.07
1	Q	363	SER	N-CA-C	5.53	117.97	109.07
1	h	363	SER	N-CA-C	5.53	117.97	109.07
1	K	363	SER	N-CA-C	5.52	117.96	109.07
1	L	363	SER	N-CA-C	5.52	117.96	109.07
1	i	363	SER	N-CA-C	5.52	117.96	109.07
1	J	363	SER	N-CA-C	5.52	117.96	109.07
1	a	363	SER	N-CA-C	5.52	117.96	109.07
1	q	363	SER	N-CA-C	5.52	117.96	109.07
1	E	363	SER	N-CA-C	5.52	117.96	109.07
1	l	363	SER	N-CA-C	5.52	117.96	109.07
1	o	363	SER	N-CA-C	5.52	117.96	109.07
1	2	363	SER	N-CA-C	5.52	117.95	109.07
1	6	363	SER	N-CA-C	5.51	117.95	109.07
1	P	363	SER	N-CA-C	5.51	117.94	109.07
1	Y	363	SER	N-CA-C	5.51	117.94	109.07
1	s	366	VAL	N-CA-CB	5.50	118.60	111.83
1	V	366	VAL	N-CA-CB	5.50	118.59	111.83
1	F	366	VAL	N-CA-CB	5.49	118.58	111.83
1	n	366	VAL	N-CA-CB	5.49	118.58	111.83
1	v	366	VAL	N-CA-CB	5.49	118.58	111.83
1	Z	366	VAL	N-CA-CB	5.48	118.57	111.83
1	8	366	VAL	N-CA-CB	5.48	118.57	111.83
1	i	366	VAL	N-CA-CB	5.48	118.57	111.83
1	3	366	VAL	N-CA-CB	5.48	118.57	111.83
1	w	366	VAL	N-CA-CB	5.48	118.57	111.83
1	y	366	VAL	N-CA-CB	5.48	118.57	111.83
1	t	366	VAL	N-CA-CB	5.47	118.56	111.83
1	m	366	VAL	N-CA-CB	5.47	118.56	111.83
1	q	366	VAL	N-CA-CB	5.47	118.56	111.83
1	D	366	VAL	N-CA-CB	5.47	118.56	111.83
1	R	366	VAL	N-CA-CB	5.47	118.56	111.83
1	g	366	VAL	N-CA-CB	5.47	118.56	111.83
1	r	366	VAL	N-CA-CB	5.47	118.56	111.83
1	x	366	VAL	N-CA-CB	5.47	118.56	111.83
1	4	366	VAL	N-CA-CB	5.47	118.56	111.83
1	9	366	VAL	N-CA-CB	5.47	118.55	111.83
1	N	366	VAL	N-CA-CB	5.47	118.55	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	366	VAL	N-CA-CB	5.47	118.55	111.83
1	a	366	VAL	N-CA-CB	5.47	118.55	111.83
1	p	366	VAL	N-CA-CB	5.47	118.55	111.83
1	K	366	VAL	N-CA-CB	5.46	118.55	111.83
1	W	366	VAL	N-CA-CB	5.46	118.55	111.83
1	5	366	VAL	N-CA-CB	5.46	118.55	111.83
1	b	366	VAL	N-CA-CB	5.46	118.55	111.83
1	k	366	VAL	N-CA-CB	5.46	118.55	111.83
1	J	366	VAL	N-CA-CB	5.46	118.55	111.83
1	c	366	VAL	N-CA-CB	5.46	118.55	111.83
1	e	366	VAL	N-CA-CB	5.46	118.55	111.83
1	l	366	VAL	N-CA-CB	5.46	118.54	111.83
1	S	366	VAL	N-CA-CB	5.46	118.54	111.83
1	T	366	VAL	N-CA-CB	5.46	118.54	111.83
1	A	366	VAL	N-CA-CB	5.45	118.54	111.83
1	f	366	VAL	N-CA-CB	5.45	118.54	111.83
1	o	366	VAL	N-CA-CB	5.45	118.54	111.83
1	L	366	VAL	N-CA-CB	5.45	118.53	111.83
1	j	366	VAL	N-CA-CB	5.45	118.53	111.83
1	Q	366	VAL	N-CA-CB	5.45	118.53	111.83
1	X	366	VAL	N-CA-CB	5.45	118.53	111.83
1	I	366	VAL	N-CA-CB	5.44	118.53	111.83
1	M	366	VAL	N-CA-CB	5.44	118.53	111.83
1	O	366	VAL	N-CA-CB	5.44	118.53	111.83
1	P	366	VAL	N-CA-CB	5.44	118.52	111.83
1	d	366	VAL	N-CA-CB	5.44	118.52	111.83
1	6	366	VAL	N-CA-CB	5.43	118.51	111.83
1	E	366	VAL	N-CA-CB	5.43	118.51	111.83
1	u	366	VAL	N-CA-CB	5.43	118.52	111.83
1	B	366	VAL	N-CA-CB	5.43	118.51	111.83
1	l	366	VAL	N-CA-CB	5.43	118.51	111.83
1	z	366	VAL	N-CA-CB	5.43	118.51	111.83
1	2	366	VAL	N-CA-CB	5.43	118.51	111.83
1	H	366	VAL	N-CA-CB	5.43	118.51	111.83
1	7	366	VAL	N-CA-CB	5.43	118.50	111.83
1	C	366	VAL	N-CA-CB	5.43	118.50	111.83
1	G	366	VAL	N-CA-CB	5.42	118.50	111.83
1	h	366	VAL	N-CA-CB	5.41	118.49	111.83
1	f	214	VAL	N-CA-C	5.02	115.71	108.48
1	V	214	VAL	N-CA-C	5.02	115.70	108.48
1	v	214	VAL	N-CA-C	5.01	115.70	108.48
1	Q	214	VAL	N-CA-C	5.01	115.70	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	214	VAL	N-CA-C	5.01	115.70	108.48
1	e	214	VAL	N-CA-C	5.01	115.70	108.48
1	n	214	VAL	N-CA-C	5.01	115.70	108.48
1	s	214	VAL	N-CA-C	5.01	115.70	108.48
1	o	214	VAL	N-CA-C	5.01	115.69	108.48
1	p	214	VAL	N-CA-C	5.01	115.69	108.48
1	r	214	VAL	N-CA-C	5.00	115.69	108.48
1	S	214	VAL	N-CA-C	5.00	115.69	108.48
1	6	214	VAL	N-CA-C	5.00	115.68	108.48
1	8	214	VAL	N-CA-C	5.00	115.68	108.48
1	P	214	VAL	N-CA-C	5.00	115.68	108.48
1	g	214	VAL	N-CA-C	5.00	115.68	108.48
1	q	214	VAL	N-CA-C	5.00	115.68	108.48

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	3507	0	3435	115	0
1	2	3507	0	3435	121	0
1	3	3507	0	3435	114	0
1	4	3507	0	3435	126	0
1	5	3507	0	3435	119	0
1	6	3507	0	3435	127	0
1	7	3507	0	3435	126	0
1	8	3507	0	3435	125	0
1	9	3507	0	3435	119	0
1	A	3507	0	3435	120	0
1	B	3507	0	3435	125	0
1	C	3507	0	3435	130	0
1	D	3507	0	3435	119	0
1	E	3507	0	3435	127	0
1	F	3507	0	3435	121	0
1	G	3507	0	3435	126	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	H	3507	0	3435	120	0
1	I	3507	0	3435	118	0
1	J	3507	0	3435	124	0
1	K	3507	0	3435	121	0
1	L	3507	0	3435	126	0
1	M	3507	0	3435	122	0
1	N	3507	0	3435	121	0
1	O	3507	0	3435	119	0
1	P	3507	0	3435	124	0
1	Q	3507	0	3435	121	0
1	R	3507	0	3435	124	0
1	S	3507	0	3435	119	0
1	T	3507	0	3435	126	0
1	V	3507	0	3435	124	0
1	W	3507	0	3435	121	0
1	X	3507	0	3435	122	0
1	Y	3507	0	3435	124	0
1	Z	3507	0	3435	120	0
1	a	3507	0	3435	120	0
1	b	3507	0	3435	124	0
1	c	3507	0	3435	119	0
1	d	3507	0	3435	120	0
1	e	3507	0	3435	124	0
1	f	3507	0	3435	122	0
1	g	3507	0	3435	122	0
1	h	3507	0	3435	124	0
1	i	3507	0	3435	125	0
1	j	3507	0	3435	123	0
1	k	3507	0	3435	120	0
1	l	3507	0	3435	122	0
1	m	3507	0	3435	123	0
1	n	3507	0	3435	117	0
1	o	3507	0	3435	122	0
1	p	3507	0	3435	117	0
1	q	3507	0	3435	124	0
1	r	3507	0	3435	127	0
1	s	3507	0	3435	118	0
1	t	3507	0	3435	120	0
1	u	3507	0	3435	124	0
1	v	3507	0	3435	124	0
1	w	3507	0	3435	122	0
1	x	3507	0	3435	119	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	y	3507	0	3435	124	0
1	z	3507	0	3435	122	0
2	1	1	0	0	0	0
2	2	1	0	0	0	0
2	3	1	0	0	0	0
2	4	1	0	0	0	0
2	5	1	0	0	0	0
2	6	1	0	0	0	0
2	7	1	0	0	0	0
2	8	1	0	0	0	0
2	9	1	0	0	0	0
2	B	1	0	0	0	0
2	I	1	0	0	0	0
2	R	1	0	0	0	0
All	All	210432	0	206100	6784	0

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

All (6784) 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:j:426:THR:CG2	1:j:428:GLN:HG2	1.56	1.36
1:E:426:THR:CG2	1:E:428:GLN:HG2	1.56	1.36
1:t:426:THR:CG2	1:t:428:GLN:HG2	1.56	1.36
1:x:426:THR:CG2	1:x:428:GLN:HG2	1.56	1.36
1:f:426:THR:CG2	1:f:428:GLN:HG2	1.56	1.36
1:u:426:THR:CG2	1:u:428:GLN:HG2	1.56	1.36
1:4:426:THR:CG2	1:4:428:GLN:HG2	1.56	1.36
1:F:426:THR:CG2	1:F:428:GLN:HG2	1.56	1.36
1:J:426:THR:CG2	1:J:428:GLN:HG2	1.56	1.36
1:m:426:THR:CG2	1:m:428:GLN:HG2	1.56	1.36
1:P:426:THR:CG2	1:P:428:GLN:HG2	1.56	1.35
1:K:426:THR:CG2	1:K:428:GLN:HG2	1.56	1.35
1:X:426:THR:CG2	1:X:428:GLN:HG2	1.56	1.35
1:h:426:THR:CG2	1:h:428:GLN:HG2	1.56	1.35
1:R:426:THR:CG2	1:R:428:GLN:HG2	1.56	1.35
1:r:426:THR:CG2	1:r:428:GLN:HG2	1.56	1.35
1:D:426:THR:CG2	1:D:428:GLN:HG2	1.56	1.35
1:c:426:THR:CG2	1:c:428:GLN:HG2	1.56	1.35
1:B:426:THR:CG2	1:B:428:GLN:HG2	1.56	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:426:THR:CG2	1:L:428:GLN:HG2	1.56	1.35
1:b:426:THR:CG2	1:b:428:GLN:HG2	1.56	1.35
1:d:426:THR:CG2	1:d:428:GLN:HG2	1.56	1.35
1:A:426:THR:CG2	1:A:428:GLN:HG2	1.56	1.34
1:i:426:THR:CG2	1:i:428:GLN:HG2	1.56	1.34
1:k:426:THR:CG2	1:k:428:GLN:HG2	1.56	1.34
1:n:426:THR:CG2	1:n:428:GLN:HG2	1.56	1.34
1:w:426:THR:CG2	1:w:428:GLN:HG2	1.56	1.34
1:Q:426:THR:CG2	1:Q:428:GLN:HG2	1.56	1.34
1:C:426:THR:CG2	1:C:428:GLN:HG2	1.56	1.34
1:O:426:THR:CG2	1:O:428:GLN:HG2	1.56	1.34
1:5:426:THR:CG2	1:5:428:GLN:HG2	1.56	1.34
1:V:426:THR:CG2	1:V:428:GLN:HG2	1.56	1.34
1:g:426:THR:CG2	1:g:428:GLN:HG2	1.56	1.34
1:p:426:THR:CG2	1:p:428:GLN:HG2	1.56	1.34
1:q:426:THR:CG2	1:q:428:GLN:HG2	1.56	1.34
1:2:426:THR:CG2	1:2:428:GLN:HG2	1.56	1.34
1:8:426:THR:CG2	1:8:428:GLN:HG2	1.56	1.34
1:I:426:THR:CG2	1:I:428:GLN:HG2	1.56	1.33
1:T:426:THR:CG2	1:T:428:GLN:HG2	1.56	1.33
1:a:426:THR:CG2	1:a:428:GLN:HG2	1.56	1.33
1:v:426:THR:CG2	1:v:428:GLN:HG2	1.56	1.33
1:S:426:THR:CG2	1:S:428:GLN:HG2	1.56	1.33
1:y:426:THR:CG2	1:y:428:GLN:HG2	1.56	1.33
1:7:426:THR:CG2	1:7:428:GLN:HG2	1.56	1.33
1:N:426:THR:CG2	1:N:428:GLN:HG2	1.56	1.33
1:o:426:THR:CG2	1:o:428:GLN:HG2	1.56	1.33
1:M:426:THR:CG2	1:M:428:GLN:HG2	1.56	1.33
1:e:426:THR:CG2	1:e:428:GLN:HG2	1.56	1.33
1:3:426:THR:CG2	1:3:428:GLN:HG2	1.56	1.33
1:G:426:THR:CG2	1:G:428:GLN:HG2	1.56	1.33
1:Z:426:THR:CG2	1:Z:428:GLN:HG2	1.56	1.33
1:1:426:THR:CG2	1:1:428:GLN:HG2	1.56	1.32
1:9:426:THR:CG2	1:9:428:GLN:HG2	1.56	1.32
1:H:426:THR:CG2	1:H:428:GLN:HG2	1.56	1.32
1:Y:426:THR:CG2	1:Y:428:GLN:HG2	1.56	1.32
1:l:426:THR:CG2	1:l:428:GLN:HG2	1.56	1.32
1:s:426:THR:CG2	1:s:428:GLN:HG2	1.56	1.32
1:W:426:THR:CG2	1:W:428:GLN:HG2	1.56	1.32
1:z:426:THR:CG2	1:z:428:GLN:HG2	1.56	1.32
1:6:426:THR:CG2	1:6:428:GLN:HG2	1.56	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:426:THR:CG2	1:G:428:GLN:CG	2.21	1.19
1:n:426:THR:CG2	1:n:428:GLN:CG	2.21	1.19
1:v:426:THR:CG2	1:v:428:GLN:CG	2.21	1.19
1:3:426:THR:CG2	1:3:428:GLN:CG	2.21	1.19
1:K:426:THR:CG2	1:K:428:GLN:CG	2.21	1.19
1:S:426:THR:CG2	1:S:428:GLN:CG	2.21	1.19
1:Y:426:THR:CG2	1:Y:428:GLN:CG	2.21	1.19
1:b:426:THR:CG2	1:b:428:GLN:CG	2.21	1.19
1:7:426:THR:CG2	1:7:428:GLN:CG	2.21	1.19
1:T:426:THR:CG2	1:T:428:GLN:CG	2.21	1.19
1:k:426:THR:CG2	1:k:428:GLN:CG	2.21	1.19
1:M:426:THR:CG2	1:M:428:GLN:CG	2.21	1.18
1:N:426:THR:CG2	1:N:428:GLN:CG	2.21	1.18
1:R:426:THR:CG2	1:R:428:GLN:CG	2.21	1.18
1:V:426:THR:CG2	1:V:428:GLN:CG	2.21	1.18
1:j:426:THR:CG2	1:j:428:GLN:CG	2.21	1.18
1:m:426:THR:CG2	1:m:428:GLN:CG	2.21	1.18
1:o:426:THR:CG2	1:o:428:GLN:CG	2.21	1.18
1:s:426:THR:CG2	1:s:428:GLN:CG	2.21	1.18
1:5:426:THR:CG2	1:5:428:GLN:CG	2.21	1.18
1:D:426:THR:CG2	1:D:428:GLN:CG	2.21	1.18
1:a:426:THR:CG2	1:a:428:GLN:CG	2.21	1.18
1:y:426:THR:CG2	1:y:428:GLN:CG	2.21	1.18
1:1:426:THR:CG2	1:1:428:GLN:CG	2.21	1.18
1:A:426:THR:CG2	1:A:428:GLN:CG	2.21	1.18
1:B:426:THR:CG2	1:B:428:GLN:CG	2.21	1.18
1:E:426:THR:CG2	1:E:428:GLN:CG	2.21	1.18
1:W:426:THR:CG2	1:W:428:GLN:CG	2.21	1.18
1:h:426:THR:CG2	1:h:428:GLN:CG	2.21	1.18
1:t:426:THR:CG2	1:t:428:GLN:CG	2.21	1.18
1:2:426:THR:CG2	1:2:428:GLN:CG	2.21	1.18
1:C:426:THR:CG2	1:C:428:GLN:CG	2.21	1.18
1:f:426:THR:CG2	1:f:428:GLN:CG	2.21	1.18
1:p:426:THR:CG2	1:p:428:GLN:CG	2.21	1.18
1:r:426:THR:CG2	1:r:428:GLN:CG	2.21	1.18
1:F:426:THR:CG2	1:F:428:GLN:CG	2.21	1.18
1:Q:426:THR:CG2	1:Q:428:GLN:CG	2.21	1.18
1:Z:426:THR:CG2	1:Z:428:GLN:CG	2.21	1.18
1:l:426:THR:CG2	1:l:428:GLN:CG	2.21	1.18
1:H:426:THR:CG2	1:H:428:GLN:CG	2.21	1.17
1:O:426:THR:CG2	1:O:428:GLN:CG	2.21	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:426:THR:CG2	1:P:428:GLN:CG	2.21	1.17
1:u:426:THR:CG2	1:u:428:GLN:CG	2.21	1.17
1:8:426:THR:CG2	1:8:428:GLN:CG	2.21	1.17
1:9:426:THR:CG2	1:9:428:GLN:CG	2.21	1.17
1:I:426:THR:CG2	1:I:428:GLN:CG	2.21	1.17
1:L:426:THR:CG2	1:L:428:GLN:CG	2.21	1.17
1:X:426:THR:CG2	1:X:428:GLN:CG	2.21	1.17
1:d:426:THR:CG2	1:d:428:GLN:CG	2.21	1.17
1:g:426:THR:CG2	1:g:428:GLN:CG	2.21	1.17
1:q:426:THR:CG2	1:q:428:GLN:CG	2.21	1.17
1:w:426:THR:CG2	1:w:428:GLN:CG	2.21	1.17
1:x:426:THR:CG2	1:x:428:GLN:CG	2.21	1.17
1:4:426:THR:CG2	1:4:428:GLN:CG	2.21	1.17
1:J:426:THR:CG2	1:J:428:GLN:CG	2.21	1.17
1:c:426:THR:CG2	1:c:428:GLN:CG	2.21	1.17
1:e:426:THR:CG2	1:e:428:GLN:CG	2.21	1.17
1:i:426:THR:CG2	1:i:428:GLN:CG	2.21	1.17
1:z:426:THR:CG2	1:z:428:GLN:CG	2.21	1.16
1:t:147:ARG:HH12	1:t:208:LEU:HD12	1.11	1.16
1:6:426:THR:CG2	1:6:428:GLN:CG	2.21	1.15
1:f:147:ARG:HH12	1:f:208:LEU:HD12	1.11	1.15
1:h:147:ARG:HH12	1:h:208:LEU:HD12	1.11	1.15
1:z:147:ARG:HH12	1:z:208:LEU:HD12	1.11	1.15
1:F:147:ARG:HH12	1:F:208:LEU:HD12	1.11	1.15
1:M:147:ARG:HH12	1:M:208:LEU:HD12	1.11	1.15
1:4:147:ARG:HH12	1:4:208:LEU:HD12	1.11	1.14
1:8:147:ARG:HH12	1:8:208:LEU:HD12	1.11	1.14
1:c:147:ARG:HH12	1:c:208:LEU:HD12	1.11	1.14
1:I:147:ARG:HH12	1:I:208:LEU:HD12	1.11	1.14
1:W:147:ARG:HH12	1:W:208:LEU:HD12	1.11	1.14
1:Y:147:ARG:HH12	1:Y:208:LEU:HD12	1.11	1.13
1:n:147:ARG:HH12	1:n:208:LEU:HD12	1.11	1.13
1:Z:147:ARG:HH12	1:Z:208:LEU:HD12	1.11	1.13
1:D:147:ARG:HH12	1:D:208:LEU:HD12	1.11	1.13
1:Q:147:ARG:HH12	1:Q:208:LEU:HD12	1.11	1.13
1:6:147:ARG:HH12	1:6:208:LEU:HD12	1.11	1.12
1:A:147:ARG:HH12	1:A:208:LEU:HD12	1.11	1.12
1:e:147:ARG:HH12	1:e:208:LEU:HD12	1.11	1.12
1:i:147:ARG:HH12	1:i:208:LEU:HD12	1.11	1.12
1:y:147:ARG:HH12	1:y:208:LEU:HD12	1.11	1.12
1:N:147:ARG:HH12	1:N:208:LEU:HD12	1.11	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:147:ARG:HH12	1:o:208:LEU:HD12	1.11	1.11
1:j:147:ARG:HH12	1:j:208:LEU:HD12	1.11	1.11
1:L:147:ARG:HH12	1:L:208:LEU:HD12	1.11	1.11
1:R:147:ARG:HH12	1:R:208:LEU:HD12	1.11	1.11
1:O:147:ARG:HH12	1:O:208:LEU:HD12	1.11	1.11
1:w:147:ARG:HH12	1:w:208:LEU:HD12	1.11	1.10
1:9:147:ARG:HH12	1:9:208:LEU:HD12	1.11	1.10
1:F:426:THR:HG22	1:F:428:GLN:CG	1.82	1.10
1:O:426:THR:HG22	1:O:428:GLN:CG	1.81	1.10
1:x:426:THR:HG22	1:x:428:GLN:CG	1.82	1.10
1:2:147:ARG:HH12	1:2:208:LEU:HD12	1.11	1.10
1:B:147:ARG:HH12	1:B:208:LEU:HD12	1.11	1.10
1:H:147:ARG:HH12	1:H:208:LEU:HD12	1.11	1.10
1:Z:426:THR:HG22	1:Z:428:GLN:CG	1.82	1.10
1:a:426:THR:HG22	1:a:428:GLN:CG	1.82	1.10
1:s:426:THR:HG22	1:s:428:GLN:CG	1.82	1.10
1:3:147:ARG:HH12	1:3:208:LEU:HD12	1.11	1.10
1:3:358:ASP:OD1	1:3:359:SER:N	1.85	1.10
1:G:147:ARG:HH12	1:G:208:LEU:HD12	1.11	1.10
1:I:358:ASP:OD1	1:I:359:SER:N	1.85	1.10
1:N:426:THR:HG22	1:N:428:GLN:CG	1.82	1.10
1:S:147:ARG:HH12	1:S:208:LEU:HD12	1.11	1.10
1:9:358:ASP:OD1	1:9:359:SER:N	1.85	1.09
1:D:358:ASP:OD1	1:D:359:SER:N	1.85	1.09
1:M:426:THR:HG22	1:M:428:GLN:CG	1.81	1.09
1:a:358:ASP:OD1	1:a:359:SER:N	1.85	1.09
1:b:147:ARG:HH12	1:b:208:LEU:HD12	1.11	1.09
1:d:358:ASP:OD1	1:d:359:SER:N	1.85	1.09
1:h:358:ASP:OD1	1:h:359:SER:N	1.85	1.09
1:w:358:ASP:OD1	1:w:359:SER:N	1.85	1.09
1:2:426:THR:HG22	1:2:428:GLN:CG	1.81	1.09
1:4:358:ASP:OD1	1:4:359:SER:N	1.85	1.09
1:5:358:ASP:OD1	1:5:359:SER:N	1.85	1.09
1:A:358:ASP:OD1	1:A:359:SER:N	1.85	1.09
1:B:358:ASP:OD1	1:B:359:SER:N	1.85	1.09
1:H:358:ASP:OD1	1:H:359:SER:N	1.85	1.09
1:L:358:ASP:OD1	1:L:359:SER:N	1.85	1.09
1:c:358:ASP:OD1	1:c:359:SER:N	1.85	1.09
1:c:426:THR:HG22	1:c:428:GLN:CG	1.82	1.09
1:g:147:ARG:HH12	1:g:208:LEU:HD12	1.11	1.09
1:l:358:ASP:OD1	1:l:359:SER:N	1.85	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:147:ARG:HH12	1:m:208:LEU:HD12	1.11	1.09
1:p:147:ARG:HH12	1:p:208:LEU:HD12	1.11	1.09
1:C:358:ASP:OD1	1:C:359:SER:N	1.85	1.09
1:p:358:ASP:OD1	1:p:359:SER:N	1.85	1.09
1:v:358:ASP:OD1	1:v:359:SER:N	1.85	1.09
1:x:147:ARG:HH12	1:x:208:LEU:HD12	1.11	1.09
1:z:358:ASP:OD1	1:z:359:SER:N	1.85	1.09
1:1:358:ASP:OD1	1:1:359:SER:N	1.85	1.09
1:1:426:THR:HG22	1:1:428:GLN:CG	1.82	1.09
1:4:426:THR:HG22	1:4:428:GLN:CG	1.82	1.09
1:7:426:THR:HG22	1:7:428:GLN:CG	1.82	1.09
1:N:358:ASP:OD1	1:N:359:SER:N	1.85	1.09
1:P:426:THR:HG22	1:P:428:GLN:CG	1.82	1.09
1:V:358:ASP:OD1	1:V:359:SER:N	1.85	1.09
1:g:358:ASP:OD1	1:g:359:SER:N	1.85	1.09
1:k:358:ASP:OD1	1:k:359:SER:N	1.85	1.09
1:n:358:ASP:OD1	1:n:359:SER:N	1.85	1.09
1:o:426:THR:HG22	1:o:428:GLN:CG	1.82	1.09
1:2:358:ASP:OD1	1:2:359:SER:N	1.85	1.09
1:O:358:ASP:OD1	1:O:359:SER:N	1.85	1.09
1:R:358:ASP:OD1	1:R:359:SER:N	1.85	1.09
1:V:147:ARG:HH12	1:V:208:LEU:HD12	1.11	1.09
1:X:147:ARG:HH12	1:X:208:LEU:HD12	1.11	1.09
1:s:147:ARG:HH12	1:s:208:LEU:HD12	1.11	1.09
1:x:358:ASP:OD1	1:x:359:SER:N	1.85	1.09
1:1:147:ARG:HH12	1:1:208:LEU:HD12	1.11	1.08
1:6:358:ASP:OD1	1:6:359:SER:N	1.85	1.08
1:K:147:ARG:HH12	1:K:208:LEU:HD12	1.11	1.08
1:T:358:ASP:OD1	1:T:359:SER:N	1.85	1.08
1:Y:426:THR:HG22	1:Y:428:GLN:CG	1.81	1.08
1:b:358:ASP:OD1	1:b:359:SER:N	1.85	1.08
1:o:358:ASP:OD1	1:o:359:SER:N	1.85	1.08
1:q:426:THR:HG22	1:q:428:GLN:CG	1.81	1.08
1:r:358:ASP:OD1	1:r:359:SER:N	1.85	1.08
1:F:358:ASP:OD1	1:F:359:SER:N	1.85	1.08
1:m:358:ASP:OD1	1:m:359:SER:N	1.85	1.08
1:z:426:THR:HG22	1:z:428:GLN:CG	1.81	1.08
1:G:358:ASP:OD1	1:G:359:SER:N	1.85	1.08
1:K:358:ASP:OD1	1:K:359:SER:N	1.85	1.08
1:Z:358:ASP:OD1	1:Z:359:SER:N	1.85	1.08
1:p:426:THR:HG22	1:p:428:GLN:CG	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:358:ASP:OD1	1:u:359:SER:N	1.85	1.08
1:8:358:ASP:OD1	1:8:359:SER:N	1.85	1.08
1:P:147:ARG:HH12	1:P:208:LEU:HD12	1.11	1.08
1:i:358:ASP:OD1	1:i:359:SER:N	1.85	1.08
1:i:426:THR:HG22	1:i:428:GLN:CG	1.82	1.08
1:7:147:ARG:HH12	1:7:208:LEU:HD12	1.11	1.08
1:M:358:ASP:OD1	1:M:359:SER:N	1.85	1.08
1:e:358:ASP:OD1	1:e:359:SER:N	1.85	1.08
1:f:358:ASP:OD1	1:f:359:SER:N	1.85	1.08
1:g:426:THR:HG22	1:g:428:GLN:CG	1.81	1.08
1:7:358:ASP:OD1	1:7:359:SER:N	1.85	1.07
1:A:426:THR:HG22	1:A:428:GLN:CG	1.82	1.07
1:E:358:ASP:OD1	1:E:359:SER:N	1.85	1.07
1:G:426:THR:HG22	1:G:428:GLN:CG	1.81	1.07
1:W:358:ASP:OD1	1:W:359:SER:N	1.85	1.07
1:h:426:THR:HG22	1:h:428:GLN:CG	1.82	1.07
1:j:358:ASP:OD1	1:j:359:SER:N	1.85	1.07
1:l:426:THR:HG22	1:l:428:GLN:CG	1.82	1.07
1:r:426:THR:HG22	1:r:428:GLN:CG	1.81	1.07
1:y:358:ASP:OD1	1:y:359:SER:N	1.85	1.07
1:J:358:ASP:OD1	1:J:359:SER:N	1.85	1.07
1:Q:358:ASP:OD1	1:Q:359:SER:N	1.85	1.07
1:Y:358:ASP:OD1	1:Y:359:SER:N	1.85	1.07
1:m:426:THR:HG22	1:m:428:GLN:CG	1.81	1.07
1:q:147:ARG:HH12	1:q:208:LEU:HD12	1.11	1.07
1:S:358:ASP:OD1	1:S:359:SER:N	1.85	1.07
1:T:426:THR:HG22	1:T:428:GLN:CG	1.82	1.07
1:w:426:THR:HG22	1:w:428:GLN:CG	1.81	1.07
1:6:426:THR:HG22	1:6:428:GLN:CG	1.81	1.07
1:J:147:ARG:HH12	1:J:208:LEU:HD12	1.11	1.07
1:R:426:THR:HG22	1:R:428:GLN:CG	1.81	1.07
1:V:426:THR:HG22	1:V:428:GLN:CG	1.81	1.07
1:k:147:ARG:HH12	1:k:208:LEU:HD12	1.11	1.07
1:q:358:ASP:OD1	1:q:359:SER:N	1.85	1.07
1:s:358:ASP:OD1	1:s:359:SER:N	1.85	1.07
1:3:426:THR:HG22	1:3:428:GLN:CG	1.82	1.07
1:C:426:THR:HG22	1:C:428:GLN:CG	1.81	1.07
1:X:358:ASP:OD1	1:X:359:SER:N	1.85	1.07
1:X:426:THR:HG22	1:X:428:GLN:CG	1.81	1.07
1:t:358:ASP:OD1	1:t:359:SER:N	1.85	1.07
1:9:426:THR:HG22	1:9:428:GLN:CG	1.82	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:THR:HG22	1:B:428:GLN:CG	1.82	1.06
1:r:147:ARG:HH12	1:r:208:LEU:HD12	1.11	1.06
1:P:358:ASP:OD1	1:P:359:SER:N	1.85	1.06
1:k:426:THR:HG22	1:k:428:GLN:CG	1.81	1.06
1:v:147:ARG:HH12	1:v:208:LEU:HD12	1.11	1.06
1:S:426:THR:HG22	1:S:428:GLN:CG	1.81	1.06
1:Q:426:THR:HG22	1:Q:428:GLN:CG	1.82	1.06
1:T:147:ARG:HH12	1:T:208:LEU:HD12	1.11	1.06
1:d:147:ARG:HH12	1:d:208:LEU:HD12	1.11	1.06
1:v:426:THR:HG22	1:v:428:GLN:CG	1.82	1.06
1:E:147:ARG:HH12	1:E:208:LEU:HD12	1.11	1.05
1:E:426:THR:HG22	1:E:428:GLN:CG	1.82	1.05
1:I:426:THR:HG22	1:I:428:GLN:CG	1.81	1.05
1:a:147:ARG:HH12	1:a:208:LEU:HD12	1.11	1.05
1:d:426:THR:HG22	1:d:428:GLN:CG	1.82	1.05
1:n:426:THR:HG22	1:n:428:GLN:CG	1.82	1.05
1:5:147:ARG:HH12	1:5:208:LEU:HD12	1.11	1.05
1:u:147:ARG:HH12	1:u:208:LEU:HD12	1.11	1.05
1:y:426:THR:HG22	1:y:428:GLN:CG	1.81	1.05
1:f:426:THR:HG22	1:f:428:GLN:CG	1.81	1.05
1:K:426:THR:HG22	1:K:428:GLN:CG	1.82	1.05
1:D:426:THR:HG22	1:D:428:GLN:CG	1.82	1.05
1:C:147:ARG:HH12	1:C:208:LEU:HD12	1.11	1.04
1:8:426:THR:HG22	1:8:428:GLN:CG	1.81	1.04
1:b:426:THR:HG22	1:b:428:GLN:CG	1.81	1.04
1:j:426:THR:HG22	1:j:428:GLN:CG	1.82	1.04
1:H:426:THR:HG22	1:H:428:GLN:CG	1.82	1.04
1:J:426:THR:HG22	1:J:428:GLN:CG	1.82	1.04
1:e:426:THR:HG22	1:e:428:GLN:CG	1.81	1.03
1:l:147:ARG:HH12	1:l:208:LEU:HD12	1.11	1.03
1:5:426:THR:HG22	1:5:428:GLN:CG	1.81	1.03
1:W:426:THR:HG22	1:W:428:GLN:CG	1.81	1.03
1:u:426:THR:HG22	1:u:428:GLN:CG	1.82	1.03
1:L:426:THR:HG22	1:L:428:GLN:CG	1.81	1.03
1:t:426:THR:HG22	1:t:428:GLN:CG	1.81	1.02
1:m:426:THR:HG21	1:m:428:GLN:CG	1.91	1.01
1:p:426:THR:HG21	1:p:428:GLN:CG	1.91	1.01
1:D:426:THR:HG21	1:D:428:GLN:CG	1.91	1.00
1:4:426:THR:HG21	1:4:428:GLN:CG	1.91	1.00
1:c:426:THR:HG21	1:c:428:GLN:CG	1.91	1.00
1:E:426:THR:HG21	1:E:428:GLN:CG	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:426:THR:HG21	1:Q:428:GLN:CG	1.91	1.00
1:V:426:THR:HG21	1:V:428:GLN:CG	1.91	1.00
1:w:426:THR:HG21	1:w:428:GLN:CG	1.91	1.00
1:Y:426:THR:HG21	1:Y:428:GLN:CG	1.91	1.00
1:A:426:THR:HG21	1:A:428:GLN:CG	1.91	0.99
1:f:426:THR:HG21	1:f:428:GLN:CG	1.91	0.99
1:2:426:THR:HG21	1:2:428:GLN:CG	1.91	0.99
1:B:426:THR:HG21	1:B:428:GLN:CG	1.91	0.99
1:M:426:THR:HG21	1:M:428:GLN:CG	1.91	0.99
1:z:426:THR:HG21	1:z:428:GLN:CG	1.91	0.99
1:G:426:THR:HG21	1:G:428:GLN:CG	1.91	0.99
1:N:426:THR:HG21	1:N:428:GLN:CG	1.91	0.99
1:8:426:THR:HG21	1:8:428:GLN:CG	1.91	0.99
1:X:426:THR:HG21	1:X:428:GLN:CG	1.91	0.99
1:e:426:THR:HG21	1:e:428:GLN:CG	1.91	0.98
1:y:426:THR:HG21	1:y:428:GLN:CG	1.91	0.98
1:6:426:THR:HG21	1:6:428:GLN:CG	1.91	0.98
1:L:426:THR:HG21	1:L:428:GLN:CG	1.91	0.98
1:Z:426:THR:HG21	1:Z:428:GLN:CG	1.91	0.98
1:W:426:THR:HG21	1:W:428:GLN:CG	1.91	0.98
1:5:426:THR:HG21	1:5:428:GLN:CG	1.91	0.98
1:I:426:THR:HG21	1:I:428:GLN:CG	1.91	0.98
1:P:426:THR:HG21	1:P:428:GLN:CG	1.91	0.98
1:k:426:THR:HG21	1:k:428:GLN:CG	1.91	0.98
1:H:426:THR:HG21	1:H:428:GLN:CG	1.91	0.98
1:O:426:THR:HG21	1:O:428:GLN:CG	1.91	0.98
1:T:426:THR:HG21	1:T:428:GLN:CG	1.91	0.98
1:d:426:THR:HG21	1:d:428:GLN:CG	1.91	0.97
1:j:426:THR:HG21	1:j:428:GLN:CG	1.91	0.97
1:v:426:THR:HG21	1:v:428:GLN:CG	1.91	0.97
1:7:426:THR:HG21	1:7:428:GLN:CG	1.91	0.97
1:J:426:THR:HG21	1:J:428:GLN:CG	1.91	0.97
1:n:426:THR:HG21	1:n:428:GLN:CG	1.91	0.97
1:x:426:THR:HG21	1:x:428:GLN:CG	1.91	0.97
1:a:426:THR:HG21	1:a:428:GLN:CG	1.91	0.97
1:t:426:THR:HG21	1:t:428:GLN:CG	1.91	0.97
1:C:426:THR:HG21	1:C:428:GLN:CG	1.91	0.97
1:F:426:THR:HG21	1:F:428:GLN:CG	1.91	0.97
1:l:426:THR:HG21	1:l:428:GLN:CG	1.91	0.97
1:g:426:THR:HG21	1:g:428:GLN:CG	1.91	0.97
1:K:426:THR:HG21	1:K:428:GLN:CG	1.91	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:426:THR:HG21	1:1:428:GLN:CG	1.91	0.97
1:9:426:THR:HG21	1:9:428:GLN:CG	1.91	0.96
1:R:426:THR:HG21	1:R:428:GLN:CG	1.91	0.96
1:i:426:THR:HG21	1:i:428:GLN:CG	1.91	0.96
1:s:426:THR:HG21	1:s:428:GLN:CG	1.91	0.96
1:q:426:THR:HG21	1:q:428:GLN:CG	1.91	0.96
1:S:426:THR:HG21	1:S:428:GLN:CG	1.91	0.96
1:h:426:THR:HG21	1:h:428:GLN:CG	1.91	0.96
1:o:426:THR:HG21	1:o:428:GLN:CG	1.91	0.96
1:r:426:THR:HG21	1:r:428:GLN:CG	1.91	0.96
1:3:426:THR:HG21	1:3:428:GLN:CG	1.91	0.95
1:u:426:THR:HG21	1:u:428:GLN:CG	1.91	0.95
1:b:426:THR:HG21	1:b:428:GLN:CG	1.91	0.95
1:F:426:THR:HG22	1:F:428:GLN:HG2	0.89	0.89
1:T:426:THR:HG22	1:T:428:GLN:HG2	0.89	0.89
1:W:426:THR:HG22	1:W:428:GLN:HG2	0.89	0.89
1:Y:298:TYR:HD2	1:Y:299:GLU:HG3	1.38	0.89
1:6:426:THR:HG22	1:6:428:GLN:HG2	0.89	0.89
1:C:426:THR:HG22	1:C:428:GLN:HG2	0.89	0.89
1:H:298:TYR:HD2	1:H:299:GLU:HG3	1.38	0.89
1:W:298:TYR:HD2	1:W:299:GLU:HG3	1.38	0.89
1:d:298:TYR:HD2	1:d:299:GLU:HG3	1.38	0.89
1:p:298:TYR:HD2	1:p:299:GLU:HG3	1.38	0.89
1:t:426:THR:HG22	1:t:428:GLN:HG2	0.89	0.89
1:F:298:TYR:HD2	1:F:299:GLU:HG3	1.38	0.89
1:G:426:THR:HG22	1:G:428:GLN:HG2	0.89	0.89
1:Z:426:THR:HG22	1:Z:428:GLN:HG2	0.89	0.89
1:r:298:TYR:HD2	1:r:299:GLU:HG3	1.38	0.89
1:s:426:THR:HG22	1:s:428:GLN:HG2	0.89	0.89
1:7:426:THR:HG22	1:7:428:GLN:HG2	0.89	0.89
1:G:298:TYR:HD2	1:G:299:GLU:HG3	1.38	0.89
1:L:426:THR:HG22	1:L:428:GLN:HG2	0.89	0.89
1:M:298:TYR:HD2	1:M:299:GLU:HG3	1.38	0.89
1:g:426:THR:HG22	1:g:428:GLN:HG2	0.89	0.89
1:t:298:TYR:HD2	1:t:299:GLU:HG3	1.38	0.89
1:u:426:THR:HG22	1:u:428:GLN:HG2	0.89	0.89
1:D:426:THR:HG22	1:D:428:GLN:HG2	0.89	0.89
1:d:426:THR:HG22	1:d:428:GLN:HG2	0.89	0.89
1:n:298:TYR:HD2	1:n:299:GLU:HG3	1.38	0.89
1:u:298:TYR:HD2	1:u:299:GLU:HG3	1.38	0.89
1:z:426:THR:HG22	1:z:428:GLN:HG2	0.89	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:298:TYR:HD2	1:1:299:GLU:HG3	1.38	0.89
1:E:298:TYR:HD2	1:E:299:GLU:HG3	1.38	0.89
1:X:426:THR:HG22	1:X:428:GLN:HG2	0.89	0.89
1:b:298:TYR:HD2	1:b:299:GLU:HG3	1.38	0.89
1:a:298:TYR:HD2	1:a:299:GLU:HG3	1.38	0.88
1:b:426:THR:HG22	1:b:428:GLN:HG2	0.89	0.88
1:c:298:TYR:HD2	1:c:299:GLU:HG3	1.38	0.88
1:h:426:THR:HG22	1:h:428:GLN:HG2	0.89	0.88
1:o:298:TYR:HD2	1:o:299:GLU:HG3	1.38	0.88
1:w:298:TYR:HD2	1:w:299:GLU:HG3	1.38	0.88
1:2:147:ARG:NH1	1:2:208:LEU:HD12	1.89	0.88
1:2:426:THR:HG22	1:2:428:GLN:HG2	0.89	0.88
1:5:147:ARG:NH1	1:5:208:LEU:HD12	1.88	0.88
1:I:426:THR:HG22	1:I:428:GLN:HG2	0.89	0.88
1:N:426:THR:HG22	1:N:428:GLN:HG2	0.89	0.88
1:P:426:THR:HG22	1:P:428:GLN:HG2	0.89	0.88
1:V:147:ARG:NH1	1:V:208:LEU:HD12	1.89	0.88
1:V:298:TYR:HD2	1:V:299:GLU:HG3	1.38	0.88
1:Y:426:THR:HG22	1:Y:428:GLN:HG2	0.89	0.88
1:n:426:THR:HG22	1:n:428:GLN:HG2	0.89	0.88
1:p:147:ARG:NH1	1:p:208:LEU:HD12	1.89	0.88
1:r:426:THR:HG22	1:r:428:GLN:HG2	0.89	0.88
1:2:298:TYR:HD2	1:2:299:GLU:HG3	1.38	0.88
1:g:147:ARG:NH1	1:g:208:LEU:HD12	1.89	0.88
1:k:426:THR:HG22	1:k:428:GLN:HG2	0.89	0.88
1:o:147:ARG:NH1	1:o:208:LEU:HD12	1.89	0.88
1:z:298:TYR:HD2	1:z:299:GLU:HG3	1.38	0.88
1:3:147:ARG:NH1	1:3:208:LEU:HD12	1.89	0.88
1:5:426:THR:HG22	1:5:428:GLN:HG2	0.89	0.88
1:9:147:ARG:NH1	1:9:208:LEU:HD12	1.89	0.88
1:O:298:TYR:HD2	1:O:299:GLU:HG3	1.38	0.88
1:R:147:ARG:NH1	1:R:208:LEU:HD12	1.89	0.88
1:S:426:THR:HG22	1:S:428:GLN:HG2	0.89	0.88
1:q:147:ARG:NH1	1:q:208:LEU:HD12	1.89	0.88
1:3:298:TYR:HD2	1:3:299:GLU:HG3	1.38	0.88
1:7:147:ARG:NH1	1:7:208:LEU:HD12	1.89	0.88
1:L:147:ARG:NH1	1:L:208:LEU:HD12	1.89	0.88
1:N:298:TYR:HD2	1:N:299:GLU:HG3	1.38	0.88
1:R:426:THR:HG22	1:R:428:GLN:HG2	0.89	0.88
1:Z:147:ARG:NH1	1:Z:208:LEU:HD12	1.89	0.88
1:5:298:TYR:HD2	1:5:299:GLU:HG3	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:426:THR:HG22	1:M:428:GLN:HG2	0.89	0.88
1:S:147:ARG:NH1	1:S:208:LEU:HD12	1.89	0.88
1:T:298:TYR:HD2	1:T:299:GLU:HG3	1.38	0.88
1:a:426:THR:HG22	1:a:428:GLN:HG2	0.89	0.88
1:d:147:ARG:NH1	1:d:208:LEU:HD12	1.89	0.88
1:e:298:TYR:HD2	1:e:299:GLU:HG3	1.38	0.88
1:l:147:ARG:NH1	1:l:208:LEU:HD12	1.89	0.88
1:y:147:ARG:NH1	1:y:208:LEU:HD12	1.89	0.88
1:6:147:ARG:NH1	1:6:208:LEU:HD12	1.88	0.88
1:B:298:TYR:HD2	1:B:299:GLU:HG3	1.38	0.88
1:B:426:THR:HG22	1:B:428:GLN:HG2	0.89	0.88
1:Q:426:THR:HG22	1:Q:428:GLN:HG2	0.89	0.88
1:f:298:TYR:HD2	1:f:299:GLU:HG3	1.38	0.88
1:j:426:THR:HG22	1:j:428:GLN:HG2	0.89	0.88
1:v:298:TYR:HD2	1:v:299:GLU:HG3	1.38	0.88
1:y:426:THR:HG22	1:y:428:GLN:HG2	0.89	0.88
1:E:426:THR:HG22	1:E:428:GLN:HG2	0.89	0.88
1:M:147:ARG:NH1	1:M:208:LEU:HD12	1.89	0.88
1:m:426:THR:HG22	1:m:428:GLN:HG2	0.89	0.88
1:1:147:ARG:NH1	1:1:208:LEU:HD12	1.89	0.88
1:W:147:ARG:NH1	1:W:208:LEU:HD12	1.89	0.88
1:Y:147:ARG:NH1	1:Y:208:LEU:HD12	1.89	0.88
1:b:147:ARG:NH1	1:b:208:LEU:HD12	1.89	0.88
1:e:147:ARG:NH1	1:e:208:LEU:HD12	1.89	0.88
1:m:147:ARG:NH1	1:m:208:LEU:HD12	1.89	0.88
1:x:426:THR:HG22	1:x:428:GLN:HG2	0.89	0.88
1:D:147:ARG:NH1	1:D:208:LEU:HD12	1.89	0.88
1:K:298:TYR:HD2	1:K:299:GLU:HG3	1.38	0.88
1:i:147:ARG:NH1	1:i:208:LEU:HD12	1.89	0.88
1:z:147:ARG:NH1	1:z:208:LEU:HD12	1.89	0.88
1:6:298:TYR:HD2	1:6:299:GLU:HG3	1.38	0.87
1:A:426:THR:HG22	1:A:428:GLN:HG2	0.89	0.87
1:B:147:ARG:NH1	1:B:208:LEU:HD12	1.88	0.87
1:I:298:TYR:HD2	1:I:299:GLU:HG3	1.38	0.87
1:P:147:ARG:NH1	1:P:208:LEU:HD12	1.88	0.87
1:S:298:TYR:HD2	1:S:299:GLU:HG3	1.38	0.87
1:i:298:TYR:HD2	1:i:299:GLU:HG3	1.38	0.87
1:q:298:TYR:HD2	1:q:299:GLU:HG3	1.38	0.87
1:r:147:ARG:NH1	1:r:208:LEU:HD12	1.88	0.87
1:x:298:TYR:HD2	1:x:299:GLU:HG3	1.38	0.87
1:7:298:TYR:HD2	1:7:299:GLU:HG3	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:147:ARG:NH1	1:H:208:LEU:HD12	1.89	0.87
1:J:426:THR:HG22	1:J:428:GLN:HG2	0.89	0.87
1:Q:298:TYR:HD2	1:Q:299:GLU:HG3	1.38	0.87
1:f:147:ARG:NH1	1:f:208:LEU:HD12	1.89	0.87
1:h:298:TYR:HD2	1:h:299:GLU:HG3	1.38	0.87
1:i:426:THR:HG22	1:i:428:GLN:HG2	0.89	0.87
1:k:147:ARG:NH1	1:k:208:LEU:HD12	1.89	0.87
1:v:147:ARG:NH1	1:v:208:LEU:HD12	1.89	0.87
1:8:147:ARG:NH1	1:8:208:LEU:HD12	1.88	0.87
1:I:147:ARG:NH1	1:I:208:LEU:HD12	1.89	0.87
1:Z:298:TYR:HD2	1:Z:299:GLU:HG3	1.38	0.87
1:a:147:ARG:NH1	1:a:208:LEU:HD12	1.89	0.87
1:f:426:THR:HG22	1:f:428:GLN:HG2	0.89	0.87
1:w:147:ARG:NH1	1:w:208:LEU:HD12	1.89	0.87
1:l:426:THR:HG22	1:l:428:GLN:HG2	0.89	0.87
1:J:147:ARG:NH1	1:J:208:LEU:HD12	1.89	0.87
1:m:298:TYR:HD2	1:m:299:GLU:HG3	1.38	0.87
1:v:426:THR:HG22	1:v:428:GLN:HG2	0.89	0.87
1:K:426:THR:HG22	1:K:428:GLN:HG2	0.89	0.87
1:V:426:THR:HG22	1:V:428:GLN:HG2	0.89	0.87
1:g:298:TYR:HD2	1:g:299:GLU:HG3	1.38	0.87
1:s:298:TYR:HD2	1:s:299:GLU:HG3	1.38	0.87
1:C:298:TYR:HD2	1:C:299:GLU:HG3	1.38	0.87
1:L:298:TYR:HD2	1:L:299:GLU:HG3	1.38	0.87
1:T:147:ARG:NH1	1:T:208:LEU:HD12	1.88	0.87
1:e:426:THR:HG22	1:e:428:GLN:HG2	0.89	0.87
1:8:298:TYR:HD2	1:8:299:GLU:HG3	1.38	0.87
1:O:426:THR:HG22	1:O:428:GLN:HG2	0.89	0.87
1:Q:147:ARG:NH1	1:Q:208:LEU:HD12	1.88	0.87
1:T:111:GLU:O	1:T:542:THR:HG22	1.75	0.87
1:X:147:ARG:NH1	1:X:208:LEU:HD12	1.89	0.87
1:o:426:THR:HG22	1:o:428:GLN:HG2	0.89	0.87
1:w:426:THR:HG22	1:w:428:GLN:HG2	0.89	0.87
1:l:111:GLU:O	1:l:542:THR:HG22	1.75	0.87
1:E:147:ARG:NH1	1:E:208:LEU:HD12	1.89	0.87
1:H:111:GLU:O	1:H:542:THR:HG22	1.75	0.87
1:V:111:GLU:O	1:V:542:THR:HG22	1.75	0.87
1:k:298:TYR:HD2	1:k:299:GLU:HG3	1.38	0.87
1:C:111:GLU:O	1:C:542:THR:HG22	1.75	0.86
1:c:147:ARG:NH1	1:c:208:LEU:HD12	1.89	0.86
1:i:111:GLU:O	1:i:542:THR:HG22	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:298:TYR:HD2	1:j:299:GLU:HG3	1.38	0.86
1:l:426:THR:HG22	1:l:428:GLN:HG2	0.89	0.86
1:r:111:GLU:O	1:r:542:THR:HG22	1.75	0.86
1:C:147:ARG:NH1	1:C:208:LEU:HD12	1.89	0.86
1:F:147:ARG:NH1	1:F:208:LEU:HD12	1.89	0.86
1:G:147:ARG:NH1	1:G:208:LEU:HD12	1.89	0.86
1:R:298:TYR:HD2	1:R:299:GLU:HG3	1.38	0.86
1:X:298:TYR:HD2	1:X:299:GLU:HG3	1.38	0.86
1:d:111:GLU:O	1:d:542:THR:HG22	1.75	0.86
1:l:111:GLU:O	1:l:542:THR:HG22	1.75	0.86
1:4:147:ARG:NH1	1:4:208:LEU:HD12	1.89	0.86
1:8:111:GLU:O	1:8:542:THR:HG22	1.75	0.86
1:H:426:THR:HG22	1:H:428:GLN:HG2	0.89	0.86
1:h:147:ARG:NH1	1:h:208:LEU:HD12	1.89	0.86
1:3:426:THR:HG22	1:3:428:GLN:HG2	0.89	0.86
1:4:111:GLU:O	1:4:542:THR:HG22	1.75	0.86
1:4:426:THR:HG22	1:4:428:GLN:HG2	0.89	0.86
1:P:298:TYR:HD2	1:P:299:GLU:HG3	1.38	0.86
1:j:147:ARG:NH1	1:j:208:LEU:HD12	1.89	0.86
1:l:298:TYR:HD2	1:l:299:GLU:HG3	1.38	0.86
1:q:426:THR:HG22	1:q:428:GLN:HG2	0.89	0.86
1:z:111:GLU:O	1:z:542:THR:HG22	1.75	0.86
1:5:111:GLU:O	1:5:542:THR:HG22	1.75	0.86
1:8:426:THR:HG22	1:8:428:GLN:HG2	0.89	0.86
1:9:298:TYR:HD2	1:9:299:GLU:HG3	1.38	0.86
1:A:147:ARG:NH1	1:A:208:LEU:HD12	1.89	0.86
1:B:111:GLU:O	1:B:542:THR:HG22	1.75	0.86
1:J:298:TYR:HD2	1:J:299:GLU:HG3	1.38	0.86
1:N:147:ARG:NH1	1:N:208:LEU:HD12	1.89	0.86
1:c:111:GLU:O	1:c:542:THR:HG22	1.75	0.86
1:n:147:ARG:NH1	1:n:208:LEU:HD12	1.88	0.86
1:s:147:ARG:NH1	1:s:208:LEU:HD12	1.89	0.86
1:O:147:ARG:NH1	1:O:208:LEU:HD12	1.89	0.86
1:u:147:ARG:NH1	1:u:208:LEU:HD12	1.89	0.86
1:D:111:GLU:O	1:D:542:THR:HG22	1.75	0.86
1:G:111:GLU:O	1:G:542:THR:HG22	1.75	0.86
1:K:147:ARG:NH1	1:K:208:LEU:HD12	1.88	0.86
1:b:111:GLU:O	1:b:542:THR:HG22	1.75	0.86
1:e:111:GLU:O	1:e:542:THR:HG22	1.75	0.86
1:E:111:GLU:O	1:E:542:THR:HG22	1.75	0.86
1:O:111:GLU:O	1:O:542:THR:HG22	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:111:GLU:O	1:P:542:THR:HG22	1.75	0.86
1:j:111:GLU:O	1:j:542:THR:HG22	1.75	0.86
1:y:111:GLU:O	1:y:542:THR:HG22	1.75	0.86
1:F:111:GLU:O	1:F:542:THR:HG22	1.75	0.86
1:L:111:GLU:O	1:L:542:THR:HG22	1.75	0.86
1:R:111:GLU:O	1:R:542:THR:HG22	1.75	0.86
1:a:111:GLU:O	1:a:542:THR:HG22	1.75	0.86
1:h:111:GLU:O	1:h:542:THR:HG22	1.75	0.86
1:w:111:GLU:O	1:w:542:THR:HG22	1.75	0.86
1:x:147:ARG:NH1	1:x:208:LEU:HD12	1.89	0.86
1:p:426:THR:HG22	1:p:428:GLN:HG2	0.89	0.86
1:s:111:GLU:O	1:s:542:THR:HG22	1.75	0.86
1:N:111:GLU:O	1:N:542:THR:HG22	1.75	0.85
1:X:111:GLU:O	1:X:542:THR:HG22	1.75	0.85
1:t:147:ARG:NH1	1:t:208:LEU:HD12	1.88	0.85
1:u:111:GLU:O	1:u:542:THR:HG22	1.75	0.85
1:9:426:THR:HG22	1:9:428:GLN:HG2	0.89	0.85
1:6:111:GLU:O	1:6:542:THR:HG22	1.75	0.85
1:9:111:GLU:O	1:9:542:THR:HG22	1.75	0.85
1:A:298:TYR:HD2	1:A:299:GLU:HG3	1.38	0.85
1:W:111:GLU:O	1:W:542:THR:HG22	1.75	0.85
1:Z:111:GLU:O	1:Z:542:THR:HG22	1.75	0.85
1:c:426:THR:HG22	1:c:428:GLN:HG2	0.89	0.85
1:o:111:GLU:O	1:o:542:THR:HG22	1.75	0.85
1:2:111:GLU:O	1:2:542:THR:HG22	1.75	0.85
1:D:298:TYR:HD2	1:D:299:GLU:HG3	1.38	0.85
1:q:111:GLU:O	1:q:542:THR:HG22	1.75	0.85
1:m:111:GLU:O	1:m:542:THR:HG22	1.75	0.85
1:n:111:GLU:O	1:n:542:THR:HG22	1.75	0.85
1:p:111:GLU:O	1:p:542:THR:HG22	1.75	0.85
1:x:111:GLU:O	1:x:542:THR:HG22	1.75	0.85
1:4:298:TYR:HD2	1:4:299:GLU:HG3	1.38	0.85
1:K:111:GLU:O	1:K:542:THR:HG22	1.75	0.85
1:S:111:GLU:O	1:S:542:THR:HG22	1.75	0.85
1:y:298:TYR:HD2	1:y:299:GLU:HG3	1.38	0.85
1:A:111:GLU:O	1:A:542:THR:HG22	1.75	0.85
1:Y:111:GLU:O	1:Y:542:THR:HG22	1.75	0.85
1:l:147:ARG:HH12	1:l:208:LEU:CD1	1.90	0.85
1:I:111:GLU:O	1:I:542:THR:HG22	1.75	0.85
1:g:111:GLU:O	1:g:542:THR:HG22	1.75	0.85
1:w:147:ARG:HH12	1:w:208:LEU:CD1	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:111:GLU:O	1:7:542:THR:HG22	1.75	0.85
1:p:147:ARG:HH12	1:p:208:LEU:CD1	1.90	0.85
1:H:147:ARG:HH12	1:H:208:LEU:CD1	1.90	0.85
1:N:147:ARG:HH12	1:N:208:LEU:CD1	1.90	0.85
1:e:147:ARG:HH12	1:e:208:LEU:CD1	1.90	0.85
1:f:111:GLU:O	1:f:542:THR:HG22	1.75	0.85
1:5:147:ARG:HH12	1:5:208:LEU:CD1	1.90	0.84
1:Q:111:GLU:O	1:Q:542:THR:HG22	1.75	0.84
1:c:147:ARG:HH12	1:c:208:LEU:CD1	1.90	0.84
1:j:147:ARG:HH12	1:j:208:LEU:CD1	1.90	0.84
1:v:147:ARG:HH12	1:v:208:LEU:CD1	1.90	0.84
1:E:147:ARG:HH12	1:E:208:LEU:CD1	1.90	0.84
1:I:147:ARG:HH12	1:I:208:LEU:CD1	1.90	0.84
1:v:111:GLU:O	1:v:542:THR:HG22	1.75	0.84
1:7:147:ARG:HH12	1:7:208:LEU:CD1	1.90	0.84
1:r:147:ARG:HH12	1:r:208:LEU:CD1	1.90	0.84
1:k:111:GLU:O	1:k:542:THR:HG22	1.75	0.84
1:t:111:GLU:O	1:t:542:THR:HG22	1.75	0.84
1:u:147:ARG:HH12	1:u:208:LEU:CD1	1.90	0.84
1:3:111:GLU:O	1:3:542:THR:HG22	1.75	0.84
1:J:147:ARG:HH12	1:J:208:LEU:CD1	1.90	0.84
1:M:111:GLU:O	1:M:542:THR:HG22	1.75	0.84
1:J:111:GLU:O	1:J:542:THR:HG22	1.75	0.84
1:h:147:ARG:HH12	1:h:208:LEU:CD1	1.90	0.84
1:q:147:ARG:HH12	1:q:208:LEU:CD1	1.90	0.84
1:K:147:ARG:HH12	1:K:208:LEU:CD1	1.90	0.84
1:f:147:ARG:HH12	1:f:208:LEU:CD1	1.90	0.84
1:g:147:ARG:HH12	1:g:208:LEU:CD1	1.90	0.84
1:x:147:ARG:HH12	1:x:208:LEU:CD1	1.90	0.84
1:C:147:ARG:HH12	1:C:208:LEU:CD1	1.90	0.84
1:s:147:ARG:HH12	1:s:208:LEU:CD1	1.90	0.84
1:B:147:ARG:HH12	1:B:208:LEU:CD1	1.90	0.83
1:P:147:ARG:HH12	1:P:208:LEU:CD1	1.90	0.83
1:l:147:ARG:HH12	1:l:208:LEU:CD1	1.90	0.83
1:9:147:ARG:HH12	1:9:208:LEU:CD1	1.90	0.83
1:a:147:ARG:HH12	1:a:208:LEU:CD1	1.90	0.83
1:d:147:ARG:HH12	1:d:208:LEU:CD1	1.90	0.83
1:T:147:ARG:HH12	1:T:208:LEU:CD1	1.90	0.83
1:Z:147:ARG:HH12	1:Z:208:LEU:CD1	1.90	0.83
1:G:147:ARG:HH12	1:G:208:LEU:CD1	1.90	0.83
1:b:147:ARG:HH12	1:b:208:LEU:CD1	1.90	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:147:ARG:HH12	1:y:208:LEU:CD1	1.90	0.83
1:z:147:ARG:HH12	1:z:208:LEU:CD1	1.90	0.83
1:S:147:ARG:HH12	1:S:208:LEU:CD1	1.90	0.83
1:o:147:ARG:HH12	1:o:208:LEU:CD1	1.90	0.83
1:2:147:ARG:HH12	1:2:208:LEU:CD1	1.90	0.83
1:D:147:ARG:HH12	1:D:208:LEU:CD1	1.90	0.83
1:g:211:ASP:O	1:g:249:LEU:CD1	2.27	0.83
1:6:147:ARG:HH12	1:6:208:LEU:CD1	1.90	0.82
1:C:211:ASP:O	1:C:249:LEU:CD1	2.27	0.82
1:F:211:ASP:O	1:F:249:LEU:CD1	2.27	0.82
1:G:211:ASP:O	1:G:249:LEU:CD1	2.27	0.82
1:O:211:ASP:O	1:O:249:LEU:CD1	2.27	0.82
1:P:211:ASP:O	1:P:249:LEU:CD1	2.27	0.82
1:T:211:ASP:O	1:T:249:LEU:CD1	2.27	0.82
1:V:211:ASP:O	1:V:249:LEU:CD1	2.27	0.82
1:Y:211:ASP:O	1:Y:249:LEU:CD1	2.27	0.82
1:f:211:ASP:O	1:f:249:LEU:CD1	2.27	0.82
1:h:211:ASP:O	1:h:249:LEU:CD1	2.27	0.82
1:H:211:ASP:O	1:H:249:LEU:CD1	2.27	0.82
1:L:147:ARG:HH12	1:L:208:LEU:CD1	1.90	0.82
1:M:211:ASP:O	1:M:249:LEU:CD1	2.27	0.82
1:N:211:ASP:O	1:N:249:LEU:CD1	2.27	0.82
1:S:211:ASP:HB3	1:S:249:LEU:CD1	2.10	0.82
1:Z:211:ASP:O	1:Z:249:LEU:CD1	2.27	0.82
1:k:147:ARG:HH12	1:k:208:LEU:CD1	1.90	0.82
1:n:147:ARG:HH12	1:n:208:LEU:CD1	1.90	0.82
1:o:211:ASP:O	1:o:249:LEU:CD1	2.27	0.82
1:p:211:ASP:O	1:p:249:LEU:CD1	2.27	0.82
1:s:211:ASP:HB3	1:s:249:LEU:CD1	2.10	0.82
1:v:211:ASP:HB3	1:v:249:LEU:CD1	2.10	0.82
1:w:211:ASP:HB3	1:w:249:LEU:CD1	2.10	0.82
1:1:426:THR:HG21	1:1:428:GLN:HG3	1.62	0.82
1:I:211:ASP:HB3	1:I:249:LEU:CD1	2.10	0.82
1:N:211:ASP:HB3	1:N:249:LEU:CD1	2.10	0.82
1:W:211:ASP:HB3	1:W:249:LEU:CD1	2.10	0.82
1:x:211:ASP:HB3	1:x:249:LEU:CD1	2.10	0.82
1:1:211:ASP:HB3	1:1:249:LEU:CD1	2.10	0.82
1:2:211:ASP:O	1:2:249:LEU:CD1	2.27	0.82
1:5:211:ASP:HB3	1:5:249:LEU:CD1	2.10	0.82
1:6:211:ASP:O	1:6:249:LEU:CD1	2.27	0.82
1:C:426:THR:HG21	1:C:428:GLN:HG3	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:426:THR:HG21	1:R:428:GLN:HG3	1.62	0.82
1:S:211:ASP:O	1:S:249:LEU:CD1	2.27	0.82
1:b:211:ASP:HB3	1:b:249:LEU:CD1	2.10	0.82
1:r:211:ASP:O	1:r:249:LEU:CD1	2.27	0.82
1:8:211:ASP:O	1:8:249:LEU:CD1	2.27	0.82
1:E:211:ASP:HB3	1:E:249:LEU:CD1	2.10	0.82
1:K:211:ASP:O	1:K:249:LEU:CD1	2.27	0.82
1:L:211:ASP:O	1:L:249:LEU:CD1	2.27	0.82
1:M:147:ARG:HH12	1:M:208:LEU:CD1	1.90	0.82
1:X:211:ASP:O	1:X:249:LEU:CD1	2.27	0.82
1:Y:147:ARG:HH12	1:Y:208:LEU:CD1	1.90	0.82
1:a:211:ASP:O	1:a:249:LEU:CD1	2.27	0.82
1:m:211:ASP:O	1:m:249:LEU:CD1	2.27	0.82
1:n:211:ASP:HB3	1:n:249:LEU:CD1	2.10	0.82
1:z:211:ASP:O	1:z:249:LEU:CD1	2.27	0.82
1:2:211:ASP:HB3	1:2:249:LEU:CD1	2.10	0.82
1:3:147:ARG:HH12	1:3:208:LEU:CD1	1.90	0.82
1:3:211:ASP:HB3	1:3:249:LEU:CD1	2.10	0.82
1:3:211:ASP:O	1:3:249:LEU:CD1	2.28	0.82
1:4:211:ASP:O	1:4:249:LEU:CD1	2.27	0.82
1:5:211:ASP:O	1:5:249:LEU:CD1	2.27	0.82
1:D:211:ASP:O	1:D:249:LEU:CD1	2.27	0.82
1:F:211:ASP:HB3	1:F:249:LEU:CD1	2.10	0.82
1:M:426:THR:HG21	1:M:428:GLN:HG3	1.62	0.82
1:R:147:ARG:HH12	1:R:208:LEU:CD1	1.90	0.82
1:c:211:ASP:HB3	1:c:249:LEU:CD1	2.10	0.82
1:e:211:ASP:O	1:e:249:LEU:CD1	2.27	0.82
1:h:426:THR:HG21	1:h:428:GLN:HG3	1.62	0.82
1:m:211:ASP:HB3	1:m:249:LEU:CD1	2.10	0.82
1:x:211:ASP:O	1:x:249:LEU:CD1	2.27	0.82
1:y:211:ASP:O	1:y:249:LEU:CD1	2.27	0.82
1:y:426:THR:HG21	1:y:428:GLN:HG3	1.62	0.82
1:4:211:ASP:HB3	1:4:249:LEU:CD1	2.10	0.82
1:9:426:THR:HG21	1:9:428:GLN:HG3	1.62	0.82
1:G:426:THR:HG21	1:G:428:GLN:HG3	1.62	0.82
1:H:211:ASP:HB3	1:H:249:LEU:CD1	2.10	0.82
1:L:211:ASP:HB3	1:L:249:LEU:CD1	2.10	0.82
1:Q:426:THR:HG21	1:Q:428:GLN:HG3	1.62	0.82
1:R:211:ASP:O	1:R:249:LEU:CD1	2.27	0.82
1:Z:211:ASP:HB3	1:Z:249:LEU:CD1	2.10	0.82
1:d:211:ASP:O	1:d:249:LEU:CD1	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:211:ASP:O	1:l:249:LEU:CD1	2.28	0.82
1:m:147:ARG:HH12	1:m:208:LEU:CD1	1.90	0.82
1:n:426:THR:HG21	1:n:428:GLN:HG3	1.62	0.82
1:t:211:ASP:HB3	1:t:249:LEU:CD1	2.09	0.82
1:v:426:THR:HG21	1:v:428:GLN:HG3	1.62	0.82
1:6:211:ASP:HB3	1:6:249:LEU:CD1	2.10	0.82
1:7:211:ASP:O	1:7:249:LEU:CD1	2.27	0.82
1:E:211:ASP:O	1:E:249:LEU:CD1	2.27	0.82
1:J:211:ASP:HB3	1:J:249:LEU:CD1	2.10	0.82
1:c:211:ASP:O	1:c:249:LEU:CD1	2.27	0.82
1:e:211:ASP:HB3	1:e:249:LEU:CD1	2.10	0.82
1:e:426:THR:HG21	1:e:428:GLN:HG3	1.62	0.82
1:l:211:ASP:HB3	1:l:249:LEU:CD1	2.10	0.82
1:q:211:ASP:HB3	1:q:249:LEU:CD1	2.10	0.82
1:t:211:ASP:O	1:t:249:LEU:CD1	2.27	0.82
1:9:211:ASP:HB3	1:9:249:LEU:CD1	2.10	0.82
1:C:211:ASP:C	1:C:249:LEU:HD11	2.05	0.82
1:D:211:ASP:C	1:D:249:LEU:HD11	2.05	0.82
1:h:211:ASP:C	1:h:249:LEU:HD11	2.05	0.82
1:i:147:ARG:HH12	1:i:208:LEU:CD1	1.90	0.82
1:n:211:ASP:C	1:n:249:LEU:HD11	2.05	0.82
1:o:211:ASP:C	1:o:249:LEU:HD11	2.05	0.82
1:r:426:THR:HG21	1:r:428:GLN:HG3	1.62	0.82
1:B:211:ASP:HB3	1:B:249:LEU:CD1	2.10	0.82
1:I:211:ASP:O	1:I:249:LEU:CD1	2.27	0.82
1:J:211:ASP:O	1:J:249:LEU:CD1	2.28	0.82
1:L:211:ASP:C	1:L:249:LEU:HD11	2.05	0.82
1:S:211:ASP:C	1:S:249:LEU:HD11	2.05	0.82
1:W:211:ASP:O	1:W:249:LEU:CD1	2.27	0.82
1:X:147:ARG:HH12	1:X:208:LEU:CD1	1.90	0.82
1:a:211:ASP:HB3	1:a:249:LEU:CD1	2.10	0.82
1:b:211:ASP:C	1:b:249:LEU:HD11	2.05	0.82
1:f:211:ASP:C	1:f:249:LEU:HD11	2.05	0.82
1:g:211:ASP:C	1:g:249:LEU:HD11	2.05	0.82
1:k:211:ASP:O	1:k:249:LEU:CD1	2.27	0.82
1:q:211:ASP:C	1:q:249:LEU:HD11	2.05	0.82
1:r:211:ASP:C	1:r:249:LEU:HD11	2.05	0.82
1:t:211:ASP:C	1:t:249:LEU:HD11	2.05	0.82
1:u:211:ASP:O	1:u:249:LEU:CD1	2.27	0.82
1:x:211:ASP:C	1:x:249:LEU:HD11	2.05	0.82
1:3:211:ASP:C	1:3:249:LEU:HD11	2.05	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:211:ASP:C	1:4:249:LEU:HD11	2.05	0.81
1:8:147:ARG:HH12	1:8:208:LEU:CD1	1.90	0.81
1:B:294:ASP:OD2	1:B:355:VAL:HG22	1.80	0.81
1:G:294:ASP:OD2	1:G:355:VAL:HG22	1.80	0.81
1:K:426:THR:HG21	1:K:428:GLN:HG3	1.62	0.81
1:N:211:ASP:C	1:N:249:LEU:HD11	2.05	0.81
1:R:211:ASP:C	1:R:249:LEU:HD11	2.05	0.81
1:S:426:THR:HG21	1:S:428:GLN:HG3	1.62	0.81
1:Y:294:ASP:OD2	1:Y:355:VAL:HG22	1.80	0.81
1:b:211:ASP:O	1:b:249:LEU:CD1	2.27	0.81
1:f:211:ASP:HB3	1:f:249:LEU:CD1	2.10	0.81
1:p:211:ASP:C	1:p:249:LEU:HD11	2.05	0.81
1:r:211:ASP:HB3	1:r:249:LEU:CD1	2.10	0.81
1:u:211:ASP:C	1:u:249:LEU:HD11	2.05	0.81
1:v:211:ASP:O	1:v:249:LEU:CD1	2.27	0.81
1:l:211:ASP:O	1:l:249:LEU:CD1	2.27	0.81
1:8:426:THR:HG21	1:8:428:GLN:HG3	1.62	0.81
1:A:211:ASP:HB3	1:A:249:LEU:CD1	2.10	0.81
1:C:211:ASP:HB3	1:C:249:LEU:CD1	2.10	0.81
1:F:147:ARG:HH12	1:F:208:LEU:CD1	1.90	0.81
1:F:294:ASP:OD2	1:F:355:VAL:HG22	1.80	0.81
1:O:211:ASP:HB3	1:O:249:LEU:CD1	2.10	0.81
1:O:426:THR:HG21	1:O:428:GLN:HG3	1.62	0.81
1:P:211:ASP:C	1:P:249:LEU:HD11	2.05	0.81
1:Q:211:ASP:O	1:Q:249:LEU:CD1	2.27	0.81
1:R:294:ASP:OD2	1:R:355:VAL:HG22	1.80	0.81
1:V:211:ASP:HB3	1:V:249:LEU:CD1	2.10	0.81
1:W:211:ASP:C	1:W:249:LEU:HD11	2.05	0.81
1:Y:211:ASP:C	1:Y:249:LEU:HD11	2.05	0.81
1:Z:426:THR:HG21	1:Z:428:GLN:HG3	1.62	0.81
1:j:211:ASP:O	1:j:249:LEU:CD1	2.27	0.81
1:n:211:ASP:O	1:n:249:LEU:CD1	2.27	0.81
1:o:211:ASP:HB3	1:o:249:LEU:CD1	2.10	0.81
1:p:211:ASP:HB3	1:p:249:LEU:CD1	2.10	0.81
1:t:147:ARG:HH12	1:t:208:LEU:CD1	1.90	0.81
1:w:211:ASP:O	1:w:249:LEU:CD1	2.27	0.81
1:y:211:ASP:HB3	1:y:249:LEU:CD1	2.10	0.81
1:4:294:ASP:OD2	1:4:355:VAL:HG22	1.80	0.81
1:7:426:THR:HG21	1:7:428:GLN:HG3	1.62	0.81
1:9:211:ASP:O	1:9:249:LEU:CD1	2.27	0.81
1:9:294:ASP:OD2	1:9:355:VAL:HG22	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:ASP:OD2	1:A:355:VAL:HG22	1.80	0.81
1:B:211:ASP:O	1:B:249:LEU:CD1	2.27	0.81
1:C:294:ASP:OD2	1:C:355:VAL:HG22	1.80	0.81
1:F:211:ASP:C	1:F:249:LEU:HD11	2.05	0.81
1:G:211:ASP:C	1:G:249:LEU:HD11	2.05	0.81
1:M:294:ASP:OD2	1:M:355:VAL:HG22	1.81	0.81
1:Q:147:ARG:HH12	1:Q:208:LEU:CD1	1.90	0.81
1:Q:294:ASP:OD2	1:Q:355:VAL:HG22	1.81	0.81
1:R:211:ASP:HB3	1:R:249:LEU:CD1	2.09	0.81
1:T:211:ASP:C	1:T:249:LEU:HD11	2.05	0.81
1:T:211:ASP:HB3	1:T:249:LEU:CD1	2.09	0.81
1:T:294:ASP:OD2	1:T:355:VAL:HG22	1.81	0.81
1:X:237:TYR:CZ	1:X:292:LEU:HD21	2.16	0.81
1:d:211:ASP:C	1:d:249:LEU:HD11	2.05	0.81
1:d:294:ASP:OD2	1:d:355:VAL:HG22	1.80	0.81
1:e:211:ASP:C	1:e:249:LEU:HD11	2.05	0.81
1:i:211:ASP:O	1:i:249:LEU:CD1	2.27	0.81
1:k:426:THR:HG21	1:k:428:GLN:HG3	1.62	0.81
1:m:294:ASP:OD2	1:m:355:VAL:HG22	1.81	0.81
1:x:294:ASP:OD2	1:x:355:VAL:HG22	1.81	0.81
1:z:211:ASP:HB3	1:z:249:LEU:CD1	2.10	0.81
1:1:211:ASP:C	1:1:249:LEU:HD11	2.05	0.81
1:2:294:ASP:OD2	1:2:355:VAL:HG22	1.80	0.81
1:6:211:ASP:C	1:6:249:LEU:HD11	2.05	0.81
1:7:211:ASP:C	1:7:249:LEU:HD11	2.05	0.81
1:A:211:ASP:O	1:A:249:LEU:CD1	2.27	0.81
1:C:237:TYR:CZ	1:C:292:LEU:HD21	2.16	0.81
1:N:237:TYR:CZ	1:N:292:LEU:HD21	2.16	0.81
1:P:237:TYR:CZ	1:P:292:LEU:HD21	2.16	0.81
1:Q:211:ASP:HB3	1:Q:249:LEU:CD1	2.10	0.81
1:W:147:ARG:HH12	1:W:208:LEU:CD1	1.90	0.81
1:a:211:ASP:C	1:a:249:LEU:HD11	2.05	0.81
1:a:294:ASP:OD2	1:a:355:VAL:HG22	1.81	0.81
1:g:426:THR:HG21	1:g:428:GLN:HG3	1.62	0.81
1:q:211:ASP:O	1:q:249:LEU:CD1	2.27	0.81
1:r:294:ASP:OD2	1:r:355:VAL:HG22	1.80	0.81
1:s:294:ASP:OD2	1:s:355:VAL:HG22	1.80	0.81
1:y:294:ASP:OD2	1:y:355:VAL:HG22	1.80	0.81
1:3:237:TYR:CZ	1:3:292:LEU:HD21	2.16	0.81
1:5:237:TYR:CZ	1:5:292:LEU:HD21	2.16	0.81
1:7:211:ASP:HB3	1:7:249:LEU:CD1	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:426:THR:HG21	1:D:428:GLN:HG3	1.62	0.81
1:K:237:TYR:CZ	1:K:292:LEU:HD21	2.16	0.81
1:P:211:ASP:HB3	1:P:249:LEU:CD1	2.10	0.81
1:T:237:TYR:CZ	1:T:292:LEU:HD21	2.16	0.81
1:V:237:TYR:CZ	1:V:292:LEU:HD21	2.16	0.81
1:c:294:ASP:OD2	1:c:355:VAL:HG22	1.80	0.81
1:h:294:ASP:OD2	1:h:355:VAL:HG22	1.81	0.81
1:j:211:ASP:C	1:j:249:LEU:HD11	2.05	0.81
1:j:211:ASP:HB3	1:j:249:LEU:CD1	2.10	0.81
1:k:211:ASP:C	1:k:249:LEU:HD11	2.05	0.81
1:m:237:TYR:CZ	1:m:292:LEU:HD21	2.16	0.81
1:o:294:ASP:OD2	1:o:355:VAL:HG22	1.80	0.81
1:s:211:ASP:O	1:s:249:LEU:CD1	2.27	0.81
1:5:294:ASP:OD2	1:5:355:VAL:HG22	1.81	0.81
1:A:147:ARG:HH12	1:A:208:LEU:CD1	1.90	0.81
1:D:294:ASP:OD2	1:D:355:VAL:HG22	1.80	0.81
1:N:426:THR:HG21	1:N:428:GLN:HG3	1.62	0.81
1:P:294:ASP:OD2	1:P:355:VAL:HG22	1.80	0.81
1:X:211:ASP:HB3	1:X:249:LEU:CD1	2.10	0.81
1:X:211:ASP:C	1:X:249:LEU:HD11	2.05	0.81
1:X:294:ASP:OD2	1:X:355:VAL:HG22	1.80	0.81
1:Y:237:TYR:CZ	1:Y:292:LEU:HD21	2.16	0.81
1:Z:294:ASP:OD2	1:Z:355:VAL:HG22	1.80	0.81
1:i:211:ASP:HB3	1:i:249:LEU:CD1	2.10	0.81
1:l:211:ASP:C	1:l:249:LEU:HD11	2.05	0.81
1:v:237:TYR:CZ	1:v:292:LEU:HD21	2.16	0.81
1:w:211:ASP:C	1:w:249:LEU:HD11	2.05	0.81
1:z:237:TYR:CZ	1:z:292:LEU:HD21	2.16	0.81
1:6:294:ASP:OD2	1:6:355:VAL:HG22	1.81	0.81
1:8:211:ASP:HB3	1:8:249:LEU:CD1	2.10	0.81
1:B:211:ASP:C	1:B:249:LEU:HD11	2.05	0.81
1:G:211:ASP:HB3	1:G:249:LEU:CD1	2.10	0.81
1:H:211:ASP:C	1:H:249:LEU:HD11	2.05	0.81
1:K:211:ASP:HB3	1:K:249:LEU:CD1	2.10	0.81
1:W:294:ASP:OD2	1:W:355:VAL:HG22	1.81	0.81
1:c:211:ASP:C	1:c:249:LEU:HD11	2.05	0.81
1:n:294:ASP:OD2	1:n:355:VAL:HG22	1.80	0.81
1:p:237:TYR:CZ	1:p:292:LEU:HD21	2.16	0.81
1:x:237:TYR:CZ	1:x:292:LEU:HD21	2.16	0.81
1:1:294:ASP:OD2	1:1:355:VAL:HG22	1.80	0.81
1:4:147:ARG:HH12	1:4:208:LEU:CD1	1.90	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:211:ASP:HB3	1:D:249:LEU:CD1	2.10	0.81
1:E:211:ASP:C	1:E:249:LEU:HD11	2.05	0.81
1:H:426:THR:HG21	1:H:428:GLN:HG3	1.62	0.81
1:J:294:ASP:OD2	1:J:355:VAL:HG22	1.80	0.81
1:K:211:ASP:C	1:K:249:LEU:HD11	2.05	0.81
1:L:237:TYR:CZ	1:L:292:LEU:HD21	2.16	0.81
1:Q:211:ASP:C	1:Q:249:LEU:HD11	2.05	0.81
1:b:294:ASP:OD2	1:b:355:VAL:HG22	1.80	0.81
1:h:211:ASP:HB3	1:h:249:LEU:CD1	2.09	0.81
1:m:426:THR:HG21	1:m:428:GLN:HG3	1.62	0.81
1:o:237:TYR:CZ	1:o:292:LEU:HD21	2.16	0.81
1:u:237:TYR:CZ	1:u:292:LEU:HD21	2.16	0.81
1:z:211:ASP:C	1:z:249:LEU:HD11	2.05	0.81
1:z:294:ASP:OD2	1:z:355:VAL:HG22	1.80	0.81
1:2:211:ASP:C	1:2:249:LEU:HD11	2.05	0.81
1:2:237:TYR:CZ	1:2:292:LEU:HD21	2.16	0.81
1:9:211:ASP:C	1:9:249:LEU:HD11	2.05	0.81
1:A:211:ASP:C	1:A:249:LEU:HD11	2.05	0.81
1:B:237:TYR:CZ	1:B:292:LEU:HD21	2.16	0.81
1:E:426:THR:HG21	1:E:428:GLN:HG3	1.62	0.81
1:G:237:TYR:CZ	1:G:292:LEU:HD21	2.16	0.81
1:J:211:ASP:C	1:J:249:LEU:HD11	2.05	0.81
1:O:147:ARG:HH12	1:O:208:LEU:CD1	1.90	0.81
1:S:237:TYR:CZ	1:S:292:LEU:HD21	2.16	0.81
1:S:294:ASP:OD2	1:S:355:VAL:HG22	1.80	0.81
1:V:426:THR:HG21	1:V:428:GLN:HG3	1.62	0.81
1:Y:426:THR:HG21	1:Y:428:GLN:HG3	1.62	0.81
1:f:237:TYR:CZ	1:f:292:LEU:HD21	2.16	0.81
1:j:237:TYR:CZ	1:j:292:LEU:HD21	2.16	0.81
1:q:294:ASP:OD2	1:q:355:VAL:HG22	1.81	0.81
1:s:426:THR:HG21	1:s:428:GLN:HG3	1.62	0.81
1:y:211:ASP:C	1:y:249:LEU:HD11	2.05	0.81
1:5:211:ASP:C	1:5:249:LEU:HD11	2.05	0.81
1:7:237:TYR:CZ	1:7:292:LEU:HD21	2.16	0.81
1:7:294:ASP:OD2	1:7:355:VAL:HG22	1.81	0.81
1:8:237:TYR:CZ	1:8:292:LEU:HD21	2.16	0.81
1:A:237:TYR:CZ	1:A:292:LEU:HD21	2.16	0.81
1:C:231:LEU:HD21	1:C:371:ILE:HG23	1.63	0.81
1:F:231:LEU:HD21	1:F:371:ILE:HG23	1.63	0.81
1:J:237:TYR:CZ	1:J:292:LEU:HD21	2.16	0.81
1:O:237:TYR:CZ	1:O:292:LEU:HD21	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:294:ASP:OD2	1:O:355:VAL:HG22	1.80	0.81
1:V:211:ASP:C	1:V:249:LEU:HD11	2.05	0.81
1:d:211:ASP:HB3	1:d:249:LEU:CD1	2.10	0.81
1:j:426:THR:HG21	1:j:428:GLN:HG3	1.62	0.81
1:m:231:LEU:HD21	1:m:371:ILE:HG23	1.63	0.81
1:q:426:THR:HG21	1:q:428:GLN:HG3	1.62	0.81
1:s:211:ASP:C	1:s:249:LEU:HD11	2.05	0.81
1:u:211:ASP:HB3	1:u:249:LEU:CD1	2.10	0.81
1:K:294:ASP:OD2	1:K:355:VAL:HG22	1.80	0.80
1:O:211:ASP:C	1:O:249:LEU:HD11	2.05	0.80
1:b:237:TYR:CZ	1:b:292:LEU:HD21	2.16	0.80
1:e:294:ASP:OD2	1:e:355:VAL:HG22	1.81	0.80
1:g:294:ASP:OD2	1:g:355:VAL:HG22	1.80	0.80
1:i:426:THR:HG21	1:i:428:GLN:HG3	1.62	0.80
1:j:294:ASP:OD2	1:j:355:VAL:HG22	1.81	0.80
1:r:237:TYR:CZ	1:r:292:LEU:HD21	2.16	0.80
1:x:231:LEU:HD21	1:x:371:ILE:HG23	1.63	0.80
1:y:237:TYR:CZ	1:y:292:LEU:HD21	2.16	0.80
1:l:237:TYR:CZ	1:l:292:LEU:HD21	2.16	0.80
1:3:231:LEU:HD21	1:3:371:ILE:HG23	1.63	0.80
1:3:294:ASP:OD2	1:3:355:VAL:HG22	1.80	0.80
1:4:237:TYR:CZ	1:4:292:LEU:HD21	2.16	0.80
1:6:237:TYR:CZ	1:6:292:LEU:HD21	2.16	0.80
1:D:231:LEU:HD21	1:D:371:ILE:HG23	1.63	0.80
1:M:211:ASP:HB3	1:M:249:LEU:CD1	2.09	0.80
1:f:426:THR:HG21	1:f:428:GLN:HG3	1.62	0.80
1:k:237:TYR:CZ	1:k:292:LEU:HD21	2.16	0.80
1:t:231:LEU:HD21	1:t:371:ILE:HG23	1.63	0.80
1:t:294:ASP:OD2	1:t:355:VAL:HG22	1.80	0.80
1:5:426:THR:HG21	1:5:428:GLN:HG3	1.62	0.80
1:J:231:LEU:HD21	1:J:371:ILE:HG23	1.63	0.80
1:V:147:ARG:HH12	1:V:208:LEU:CD1	1.90	0.80
1:Y:211:ASP:HB3	1:Y:249:LEU:CD1	2.10	0.80
1:Z:211:ASP:C	1:Z:249:LEU:HD11	2.05	0.80
1:g:237:TYR:CZ	1:g:292:LEU:HD21	2.16	0.80
1:k:211:ASP:HB3	1:k:249:LEU:CD1	2.10	0.80
1:k:294:ASP:OD2	1:k:355:VAL:HG22	1.80	0.80
1:m:211:ASP:C	1:m:249:LEU:HD11	2.05	0.80
1:n:237:TYR:CZ	1:n:292:LEU:HD21	2.16	0.80
1:t:426:THR:HG21	1:t:428:GLN:HG3	1.62	0.80
1:w:426:THR:HG21	1:w:428:GLN:HG3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:426:THR:HG21	1:3:428:GLN:HG3	1.62	0.80
1:6:426:THR:HG21	1:6:428:GLN:HG3	1.62	0.80
1:A:426:THR:HG21	1:A:428:GLN:HG3	1.62	0.80
1:M:237:TYR:CZ	1:M:292:LEU:HD21	2.16	0.80
1:N:294:ASP:OD2	1:N:355:VAL:HG22	1.80	0.80
1:a:426:THR:HG21	1:a:428:GLN:HG3	1.62	0.80
1:i:294:ASP:OD2	1:i:355:VAL:HG22	1.80	0.80
1:s:237:TYR:CZ	1:s:292:LEU:HD21	2.16	0.80
1:I:237:TYR:CZ	1:I:292:LEU:HD21	2.16	0.80
1:P:231:LEU:HD21	1:P:371:ILE:HG23	1.63	0.80
1:R:237:TYR:CZ	1:R:292:LEU:HD21	2.16	0.80
1:W:237:TYR:CZ	1:W:292:LEU:HD21	2.16	0.80
1:c:426:THR:HG21	1:c:428:GLN:HG3	1.62	0.80
1:l:237:TYR:CZ	1:l:292:LEU:HD21	2.16	0.80
1:p:294:ASP:OD2	1:p:355:VAL:HG22	1.81	0.80
1:u:294:ASP:OD2	1:u:355:VAL:HG22	1.80	0.80
1:8:211:ASP:C	1:8:249:LEU:HD11	2.05	0.80
1:I:211:ASP:C	1:I:249:LEU:HD11	2.05	0.80
1:M:211:ASP:C	1:M:249:LEU:HD11	2.05	0.80
1:T:426:THR:HG21	1:T:428:GLN:HG3	1.62	0.80
1:V:294:ASP:OD2	1:V:355:VAL:HG22	1.81	0.80
1:c:237:TYR:CZ	1:c:292:LEU:HD21	2.16	0.80
1:g:211:ASP:HB3	1:g:249:LEU:CD1	2.10	0.80
1:l:294:ASP:OD2	1:l:355:VAL:HG22	1.80	0.80
1:v:211:ASP:C	1:v:249:LEU:HD11	2.05	0.80
1:E:237:TYR:CZ	1:E:292:LEU:HD21	2.16	0.80
1:S:231:LEU:HD21	1:S:371:ILE:HG23	1.63	0.80
1:X:231:LEU:HD21	1:X:371:ILE:HG23	1.63	0.80
1:b:231:LEU:HD21	1:b:371:ILE:HG23	1.64	0.80
1:b:426:THR:HG21	1:b:428:GLN:HG3	1.62	0.80
1:d:237:TYR:CZ	1:d:292:LEU:HD21	2.16	0.80
1:h:237:TYR:CZ	1:h:292:LEU:HD21	2.16	0.80
1:i:237:TYR:CZ	1:i:292:LEU:HD21	2.16	0.80
1:4:231:LEU:HD21	1:4:371:ILE:HG23	1.63	0.80
1:4:426:THR:HG21	1:4:428:GLN:HG3	1.62	0.80
1:8:294:ASP:OD2	1:8:355:VAL:HG22	1.80	0.80
1:D:237:TYR:CZ	1:D:292:LEU:HD21	2.16	0.80
1:I:294:ASP:OD2	1:I:355:VAL:HG22	1.80	0.80
1:K:231:LEU:HD21	1:K:371:ILE:HG23	1.63	0.80
1:Q:237:TYR:CZ	1:Q:292:LEU:HD21	2.16	0.80
1:X:426:THR:HG21	1:X:428:GLN:HG3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:231:LEU:HD21	1:f:371:ILE:HG23	1.63	0.80
1:t:237:TYR:CZ	1:t:292:LEU:HD21	2.16	0.80
1:v:294:ASP:OD2	1:v:355:VAL:HG22	1.80	0.80
1:6:231:LEU:HD21	1:6:371:ILE:HG23	1.63	0.80
1:E:294:ASP:OD2	1:E:355:VAL:HG22	1.80	0.80
1:H:237:TYR:CZ	1:H:292:LEU:HD21	2.16	0.80
1:L:294:ASP:OD2	1:L:355:VAL:HG22	1.80	0.80
1:g:231:LEU:HD21	1:g:371:ILE:HG23	1.63	0.80
1:r:231:LEU:HD21	1:r:371:ILE:HG23	1.63	0.80
1:w:294:ASP:OD2	1:w:355:VAL:HG22	1.80	0.80
1:9:237:TYR:CZ	1:9:292:LEU:HD21	2.16	0.80
1:B:426:THR:HG21	1:B:428:GLN:HG3	1.62	0.80
1:F:237:TYR:CZ	1:F:292:LEU:HD21	2.16	0.80
1:W:426:THR:HG21	1:W:428:GLN:HG3	1.62	0.80
1:Z:237:TYR:CZ	1:Z:292:LEU:HD21	2.16	0.80
1:i:211:ASP:C	1:i:249:LEU:HD11	2.05	0.80
1:q:237:TYR:CZ	1:q:292:LEU:HD21	2.16	0.80
1:H:231:LEU:HD21	1:H:371:ILE:HG23	1.63	0.79
1:I:231:LEU:HD21	1:I:371:ILE:HG23	1.63	0.79
1:T:231:LEU:HD21	1:T:371:ILE:HG23	1.63	0.79
1:o:426:THR:HG21	1:o:428:GLN:HG3	1.62	0.79
1:u:426:THR:HG21	1:u:428:GLN:HG3	1.62	0.79
1:v:231:LEU:HD21	1:v:371:ILE:HG23	1.63	0.79
1:8:231:LEU:HD21	1:8:371:ILE:HG23	1.63	0.79
1:J:426:THR:HG21	1:J:428:GLN:HG3	1.62	0.79
1:V:231:LEU:HD21	1:V:371:ILE:HG23	1.63	0.79
1:a:237:TYR:CZ	1:a:292:LEU:HD21	2.16	0.79
1:d:231:LEU:HD21	1:d:371:ILE:HG23	1.63	0.79
1:e:231:LEU:HD21	1:e:371:ILE:HG23	1.63	0.79
1:A:231:LEU:HD21	1:A:371:ILE:HG23	1.63	0.79
1:H:294:ASP:OD2	1:H:355:VAL:HG22	1.80	0.79
1:W:231:LEU:HD21	1:W:371:ILE:HG23	1.63	0.79
1:Z:231:LEU:HD21	1:Z:371:ILE:HG23	1.63	0.79
1:e:237:TYR:CZ	1:e:292:LEU:HD21	2.16	0.79
1:p:231:LEU:HD21	1:p:371:ILE:HG23	1.63	0.79
1:u:231:LEU:HD21	1:u:371:ILE:HG23	1.63	0.79
1:5:231:LEU:HD21	1:5:371:ILE:HG23	1.63	0.79
1:o:231:LEU:HD21	1:o:371:ILE:HG23	1.63	0.79
1:q:231:LEU:HD21	1:q:371:ILE:HG23	1.63	0.79
1:x:426:THR:HG21	1:x:428:GLN:HG3	1.62	0.79
1:z:231:LEU:HD21	1:z:371:ILE:HG23	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:426:THR:HG21	1:z:428:GLN:HG3	1.62	0.79
1:L:231:LEU:HD21	1:L:371:ILE:HG23	1.63	0.79
1:d:426:THR:HG21	1:d:428:GLN:HG3	1.62	0.79
1:f:294:ASP:OD2	1:f:355:VAL:HG22	1.80	0.79
1:h:231:LEU:HD21	1:h:371:ILE:HG23	1.64	0.79
1:j:231:LEU:HD21	1:j:371:ILE:HG23	1.64	0.79
1:w:237:TYR:CZ	1:w:292:LEU:HD21	2.16	0.79
1:y:231:LEU:HD21	1:y:371:ILE:HG23	1.63	0.79
1:2:426:THR:HG21	1:2:428:GLN:HG3	1.62	0.79
1:l:426:THR:HG21	1:l:428:GLN:HG3	1.62	0.79
1:P:426:THR:HG21	1:P:428:GLN:HG3	1.62	0.79
1:p:426:THR:HG21	1:p:428:GLN:HG3	1.62	0.79
1:s:231:LEU:HD21	1:s:371:ILE:HG23	1.64	0.79
1:I:426:THR:HG21	1:I:428:GLN:HG3	1.62	0.79
1:L:426:THR:HG21	1:L:428:GLN:HG3	1.62	0.79
1:N:231:LEU:HD21	1:N:371:ILE:HG23	1.63	0.79
1:a:231:LEU:HD21	1:a:371:ILE:HG23	1.63	0.79
1:6:147:ARG:HB3	1:6:206:GLY:O	1.83	0.79
1:B:231:LEU:HD21	1:B:371:ILE:HG23	1.63	0.79
1:w:147:ARG:HB3	1:w:206:GLY:O	1.84	0.79
1:9:147:ARG:HB3	1:9:206:GLY:O	1.83	0.78
1:P:147:ARG:HB3	1:P:206:GLY:O	1.84	0.78
1:Q:231:LEU:HD21	1:Q:371:ILE:HG23	1.63	0.78
1:7:231:LEU:HD21	1:7:371:ILE:HG23	1.63	0.78
1:R:147:ARG:HB3	1:R:206:GLY:O	1.84	0.78
1:n:231:LEU:HD21	1:n:371:ILE:HG23	1.63	0.78
1:F:426:THR:HG21	1:F:428:GLN:HG3	1.62	0.78
1:K:147:ARG:HB3	1:K:206:GLY:O	1.84	0.78
1:O:231:LEU:HD21	1:O:371:ILE:HG23	1.63	0.78
1:R:231:LEU:HD21	1:R:371:ILE:HG23	1.63	0.78
1:W:147:ARG:HB3	1:W:206:GLY:O	1.84	0.78
1:g:147:ARG:HB3	1:g:206:GLY:O	1.84	0.78
1:i:231:LEU:HD21	1:i:371:ILE:HG23	1.63	0.78
1:q:147:ARG:HB3	1:q:206:GLY:O	1.84	0.78
1:l:231:LEU:HD21	1:l:371:ILE:HG23	1.63	0.78
1:N:147:ARG:HB3	1:N:206:GLY:O	1.84	0.78
1:c:231:LEU:HD21	1:c:371:ILE:HG23	1.63	0.78
1:e:147:ARG:HB3	1:e:206:GLY:O	1.84	0.78
1:t:147:ARG:HB3	1:t:206:GLY:O	1.84	0.78
1:z:147:ARG:HB3	1:z:206:GLY:O	1.84	0.78
1:E:147:ARG:HB3	1:E:206:GLY:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:147:ARG:HB3	1:b:206:GLY:O	1.84	0.78
1:c:147:ARG:HB3	1:c:206:GLY:O	1.84	0.78
1:k:147:ARG:HB3	1:k:206:GLY:O	1.84	0.78
1:k:231:LEU:HD21	1:k:371:ILE:HG23	1.63	0.78
1:l:147:ARG:HB3	1:l:206:GLY:O	1.84	0.78
1:l:231:LEU:HD21	1:l:371:ILE:HG23	1.63	0.78
1:2:231:LEU:HD21	1:2:371:ILE:HG23	1.63	0.78
1:E:231:LEU:HD21	1:E:371:ILE:HG23	1.63	0.78
1:F:147:ARG:HB3	1:F:206:GLY:O	1.84	0.78
1:G:147:ARG:HB3	1:G:206:GLY:O	1.84	0.78
1:X:147:ARG:HB3	1:X:206:GLY:O	1.84	0.78
1:3:147:ARG:HB3	1:3:206:GLY:O	1.84	0.78
1:B:147:ARG:HB3	1:B:206:GLY:O	1.84	0.78
1:M:231:LEU:HD21	1:M:371:ILE:HG23	1.63	0.78
1:O:147:ARG:HB3	1:O:206:GLY:O	1.84	0.78
1:T:147:ARG:HB3	1:T:206:GLY:O	1.84	0.78
1:a:147:ARG:HB3	1:a:206:GLY:O	1.84	0.78
1:4:147:ARG:HB3	1:4:206:GLY:O	1.84	0.78
1:M:147:ARG:HB3	1:M:206:GLY:O	1.84	0.78
1:h:147:ARG:HB3	1:h:206:GLY:O	1.84	0.78
1:s:147:ARG:HB3	1:s:206:GLY:O	1.84	0.78
1:A:147:ARG:HB3	1:A:206:GLY:O	1.84	0.77
1:f:147:ARG:HB3	1:f:206:GLY:O	1.84	0.77
1:j:147:ARG:HB3	1:j:206:GLY:O	1.84	0.77
1:n:147:ARG:HB3	1:n:206:GLY:O	1.84	0.77
1:J:147:ARG:HB3	1:J:206:GLY:O	1.83	0.77
1:Q:147:ARG:HB3	1:Q:206:GLY:O	1.84	0.77
1:Y:231:LEU:HD21	1:Y:371:ILE:HG23	1.63	0.77
1:m:147:ARG:HB3	1:m:206:GLY:O	1.84	0.77
1:D:147:ARG:HB3	1:D:206:GLY:O	1.83	0.77
1:2:147:ARG:HB3	1:2:206:GLY:O	1.84	0.77
1:L:147:ARG:HB3	1:L:206:GLY:O	1.84	0.77
1:Z:147:ARG:HB3	1:Z:206:GLY:O	1.84	0.77
1:i:147:ARG:HB3	1:i:206:GLY:O	1.84	0.77
1:r:147:ARG:HB3	1:r:206:GLY:O	1.84	0.77
1:7:147:ARG:HB3	1:7:206:GLY:O	1.84	0.77
1:9:231:LEU:HD21	1:9:371:ILE:HG23	1.64	0.77
1:C:147:ARG:HB3	1:C:206:GLY:O	1.84	0.77
1:G:231:LEU:HD21	1:G:371:ILE:HG23	1.63	0.77
1:V:147:ARG:HB3	1:V:206:GLY:O	1.84	0.77
1:Y:147:ARG:HB3	1:Y:206:GLY:O	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:231:LEU:HD21	1:w:371:ILE:HG23	1.63	0.77
1:y:147:ARG:HB3	1:y:206:GLY:O	1.84	0.77
1:5:147:ARG:HB3	1:5:206:GLY:O	1.84	0.77
1:8:147:ARG:HB3	1:8:206:GLY:O	1.84	0.77
1:S:147:ARG:HB3	1:S:206:GLY:O	1.84	0.77
1:u:147:ARG:HB3	1:u:206:GLY:O	1.84	0.77
1:J:229:THR:HG22	1:J:230:GLU:H	1.50	0.77
1:o:147:ARG:HB3	1:o:206:GLY:O	1.84	0.77
1:p:147:ARG:HB3	1:p:206:GLY:O	1.83	0.77
1:x:147:ARG:HB3	1:x:206:GLY:O	1.84	0.77
1:1:147:ARG:HB3	1:1:206:GLY:O	1.84	0.77
1:O:149:THR:OG1	1:O:150:PRO:HD3	1.85	0.77
1:R:229:THR:HG22	1:R:230:GLU:H	1.50	0.77
1:r:149:THR:OG1	1:r:150:PRO:HD3	1.85	0.77
1:8:229:THR:HG22	1:8:230:GLU:H	1.50	0.77
1:H:147:ARG:HB3	1:H:206:GLY:O	1.84	0.77
1:I:147:ARG:HB3	1:I:206:GLY:O	1.84	0.77
1:Q:149:THR:OG1	1:Q:150:PRO:HD3	1.86	0.77
1:S:149:THR:OG1	1:S:150:PRO:HD3	1.85	0.77
1:f:229:THR:HG22	1:f:230:GLU:H	1.50	0.77
1:g:149:THR:OG1	1:g:150:PRO:HD3	1.85	0.77
1:v:149:THR:OG1	1:v:150:PRO:HD3	1.85	0.77
1:J:149:THR:OG1	1:J:150:PRO:HD3	1.85	0.76
1:L:149:THR:OG1	1:L:150:PRO:HD3	1.86	0.76
1:R:149:THR:OG1	1:R:150:PRO:HD3	1.85	0.76
1:W:149:THR:OG1	1:W:150:PRO:HD3	1.86	0.76
1:d:147:ARG:HB3	1:d:206:GLY:O	1.84	0.76
1:j:149:THR:OG1	1:j:150:PRO:HD3	1.85	0.76
1:n:149:THR:OG1	1:n:150:PRO:HD3	1.85	0.76
1:s:229:THR:HG22	1:s:230:GLU:H	1.50	0.76
1:w:149:THR:OG1	1:w:150:PRO:HD3	1.86	0.76
1:4:229:THR:HG22	1:4:230:GLU:H	1.50	0.76
1:5:149:THR:OG1	1:5:150:PRO:HD3	1.85	0.76
1:A:229:THR:HG22	1:A:230:GLU:H	1.50	0.76
1:W:229:THR:HG22	1:W:230:GLU:H	1.50	0.76
1:a:149:THR:OG1	1:a:150:PRO:HD3	1.85	0.76
1:e:229:THR:HG22	1:e:230:GLU:H	1.50	0.76
1:j:229:THR:HG22	1:j:230:GLU:H	1.50	0.76
1:k:149:THR:OG1	1:k:150:PRO:HD3	1.85	0.76
1:p:149:THR:OG1	1:p:150:PRO:HD3	1.85	0.76
1:s:149:THR:OG1	1:s:150:PRO:HD3	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:147:ARG:HB3	1:v:206:GLY:O	1.84	0.76
1:z:149:THR:OG1	1:z:150:PRO:HD3	1.85	0.76
1:4:149:THR:OG1	1:4:150:PRO:HD3	1.86	0.76
1:I:229:THR:HG22	1:I:230:GLU:H	1.50	0.76
1:K:149:THR:OG1	1:K:150:PRO:HD3	1.86	0.76
1:M:149:THR:OG1	1:M:150:PRO:HD3	1.85	0.76
1:M:229:THR:HG22	1:M:230:GLU:H	1.50	0.76
1:V:229:THR:HG22	1:V:230:GLU:H	1.50	0.76
1:d:149:THR:OG1	1:d:150:PRO:HD3	1.86	0.76
1:H:149:THR:OG1	1:H:150:PRO:HD3	1.86	0.76
1:X:149:THR:OG1	1:X:150:PRO:HD3	1.85	0.76
1:g:229:THR:HG22	1:g:230:GLU:H	1.50	0.76
1:l:229:THR:HG22	1:l:230:GLU:H	1.50	0.76
1:o:149:THR:OG1	1:o:150:PRO:HD3	1.85	0.76
1:1:149:THR:OG1	1:1:150:PRO:HD3	1.85	0.76
1:3:149:THR:OG1	1:3:150:PRO:HD3	1.85	0.76
1:7:149:THR:OG1	1:7:150:PRO:HD3	1.85	0.76
1:D:149:THR:OG1	1:D:150:PRO:HD3	1.86	0.76
1:w:229:THR:HG22	1:w:230:GLU:H	1.50	0.76
1:x:229:THR:HG22	1:x:230:GLU:H	1.50	0.76
1:y:229:THR:HG22	1:y:230:GLU:H	1.50	0.76
1:2:229:THR:HG22	1:2:230:GLU:N	2.01	0.76
1:A:229:THR:HG22	1:A:230:GLU:N	2.01	0.76
1:e:229:THR:HG22	1:e:230:GLU:N	2.01	0.76
1:p:229:THR:HG22	1:p:230:GLU:H	1.50	0.76
1:q:229:THR:HG22	1:q:230:GLU:N	2.01	0.76
1:3:229:THR:HG22	1:3:230:GLU:H	1.50	0.76
1:8:149:THR:OG1	1:8:150:PRO:HD3	1.85	0.76
1:V:229:THR:HG22	1:V:230:GLU:N	2.01	0.76
1:d:229:THR:HG22	1:d:230:GLU:H	1.50	0.76
1:f:149:THR:OG1	1:f:150:PRO:HD3	1.85	0.76
1:h:229:THR:HG22	1:h:230:GLU:N	2.01	0.76
1:m:229:THR:HG22	1:m:230:GLU:N	2.01	0.76
1:2:229:THR:HG22	1:2:230:GLU:H	1.50	0.76
1:K:229:THR:HG22	1:K:230:GLU:H	1.50	0.76
1:Q:229:THR:HG22	1:Q:230:GLU:N	2.01	0.76
1:X:229:THR:HG22	1:X:230:GLU:H	1.50	0.76
1:Z:149:THR:OG1	1:Z:150:PRO:HD3	1.85	0.76
1:c:229:THR:HG22	1:c:230:GLU:H	1.50	0.76
1:m:149:THR:OG1	1:m:150:PRO:HD3	1.85	0.76
1:s:229:THR:HG22	1:s:230:GLU:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:149:THR:OG1	1:x:150:PRO:HD3	1.85	0.76
1:1:229:THR:HG22	1:1:230:GLU:N	2.01	0.76
1:3:229:THR:HG22	1:3:230:GLU:N	2.01	0.76
1:6:229:THR:HG22	1:6:230:GLU:H	1.50	0.76
1:F:229:THR:HG22	1:F:230:GLU:H	1.50	0.76
1:I:149:THR:OG1	1:I:150:PRO:HD3	1.85	0.76
1:X:229:THR:HG22	1:X:230:GLU:N	2.01	0.76
1:w:229:THR:HG22	1:w:230:GLU:N	2.01	0.76
1:B:149:THR:OG1	1:B:150:PRO:HD3	1.86	0.75
1:F:149:THR:OG1	1:F:150:PRO:HD3	1.85	0.75
1:H:229:THR:HG22	1:H:230:GLU:H	1.50	0.75
1:P:149:THR:OG1	1:P:150:PRO:HD3	1.85	0.75
1:d:229:THR:HG22	1:d:230:GLU:N	2.01	0.75
1:i:229:THR:HG22	1:i:230:GLU:N	2.01	0.75
1:p:229:THR:HG22	1:p:230:GLU:N	2.01	0.75
1:t:229:THR:HG22	1:t:230:GLU:H	1.50	0.75
1:2:149:THR:OG1	1:2:150:PRO:HD3	1.85	0.75
1:I:229:THR:HG22	1:I:230:GLU:N	2.01	0.75
1:P:229:THR:HG22	1:P:230:GLU:H	1.50	0.75
1:a:229:THR:HG22	1:a:230:GLU:N	2.01	0.75
1:a:229:THR:HG22	1:a:230:GLU:H	1.50	0.75
1:e:149:THR:OG1	1:e:150:PRO:HD3	1.85	0.75
1:l:149:THR:OG1	1:l:150:PRO:HD3	1.85	0.75
1:m:229:THR:HG22	1:m:230:GLU:H	1.50	0.75
1:x:229:THR:HG22	1:x:230:GLU:N	2.01	0.75
1:y:149:THR:OG1	1:y:150:PRO:HD3	1.85	0.75
1:z:229:THR:HG22	1:z:230:GLU:H	1.50	0.75
1:B:229:THR:HG22	1:B:230:GLU:H	1.50	0.75
1:O:229:THR:HG22	1:O:230:GLU:N	2.01	0.75
1:h:149:THR:OG1	1:h:150:PRO:HD3	1.86	0.75
1:i:149:THR:OG1	1:i:150:PRO:HD3	1.85	0.75
1:9:149:THR:OG1	1:9:150:PRO:HD3	1.86	0.75
1:9:229:THR:HG22	1:9:230:GLU:N	2.01	0.75
1:E:149:THR:OG1	1:E:150:PRO:HD3	1.85	0.75
1:M:229:THR:HG22	1:M:230:GLU:N	2.01	0.75
1:N:149:THR:OG1	1:N:150:PRO:HD3	1.86	0.75
1:Y:149:THR:OG1	1:Y:150:PRO:HD3	1.85	0.75
1:c:149:THR:OG1	1:c:150:PRO:HD3	1.85	0.75
1:l:229:THR:HG22	1:l:230:GLU:N	2.01	0.75
1:q:229:THR:HG22	1:q:230:GLU:H	1.50	0.75
1:4:229:THR:HG22	1:4:230:GLU:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:229:THR:HG22	1:o:230:GLU:N	2.01	0.75
1:u:149:THR:OG1	1:u:150:PRO:HD3	1.86	0.75
1:5:229:THR:HG22	1:5:230:GLU:H	1.50	0.75
1:9:229:THR:HG22	1:9:230:GLU:H	1.50	0.75
1:C:149:THR:OG1	1:C:150:PRO:HD3	1.85	0.75
1:N:229:THR:HG22	1:N:230:GLU:H	1.50	0.75
1:b:233:MET:SD	1:b:293:LEU:HD22	2.27	0.75
1:h:233:MET:SD	1:h:293:LEU:HD22	2.27	0.75
1:r:233:MET:SD	1:r:293:LEU:HD22	2.27	0.75
1:t:149:THR:OG1	1:t:150:PRO:HD3	1.85	0.75
1:u:229:THR:HG22	1:u:230:GLU:N	2.01	0.75
1:7:229:THR:HG22	1:7:230:GLU:H	1.50	0.75
1:8:229:THR:HG22	1:8:230:GLU:N	2.01	0.75
1:J:229:THR:HG22	1:J:230:GLU:N	2.01	0.75
1:J:233:MET:SD	1:J:293:LEU:HD22	2.27	0.75
1:K:233:MET:SD	1:K:293:LEU:HD22	2.27	0.75
1:R:229:THR:HG22	1:R:230:GLU:N	2.01	0.75
1:T:149:THR:OG1	1:T:150:PRO:HD3	1.85	0.75
1:Y:229:THR:HG22	1:Y:230:GLU:N	2.01	0.75
1:a:233:MET:SD	1:a:293:LEU:HD22	2.27	0.75
1:n:233:MET:SD	1:n:293:LEU:HD22	2.27	0.75
1:q:149:THR:OG1	1:q:150:PRO:HD3	1.85	0.75
1:r:229:THR:HG22	1:r:230:GLU:H	1.50	0.75
1:t:229:THR:HG22	1:t:230:GLU:N	2.01	0.75
1:5:229:THR:HG22	1:5:230:GLU:N	2.01	0.75
1:6:149:THR:OG1	1:6:150:PRO:HD3	1.86	0.75
1:b:149:THR:OG1	1:b:150:PRO:HD3	1.85	0.75
1:b:229:THR:HG22	1:b:230:GLU:N	2.01	0.75
1:g:233:MET:SD	1:g:293:LEU:HD22	2.27	0.75
1:o:233:MET:SD	1:o:293:LEU:HD22	2.27	0.75
1:u:233:MET:SD	1:u:293:LEU:HD22	2.27	0.75
1:E:233:MET:SD	1:E:293:LEU:HD22	2.27	0.75
1:L:229:THR:HG22	1:L:230:GLU:H	1.50	0.75
1:k:229:THR:HG22	1:k:230:GLU:H	1.50	0.75
1:t:233:MET:SD	1:t:293:LEU:HD22	2.27	0.75
1:v:229:THR:HG22	1:v:230:GLU:N	2.01	0.75
1:v:233:MET:SD	1:v:293:LEU:HD22	2.27	0.75
1:3:233:MET:SD	1:3:293:LEU:HD22	2.27	0.74
1:7:233:MET:SD	1:7:293:LEU:HD22	2.27	0.74
1:A:149:THR:OG1	1:A:150:PRO:HD3	1.85	0.74
1:E:229:THR:HG22	1:E:230:GLU:H	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:229:THR:HG22	1:E:230:GLU:N	2.01	0.74
1:F:229:THR:HG22	1:F:230:GLU:N	2.01	0.74
1:T:233:MET:SD	1:T:293:LEU:HD22	2.27	0.74
1:V:149:THR:OG1	1:V:150:PRO:HD3	1.85	0.74
1:d:233:MET:SD	1:d:293:LEU:HD22	2.27	0.74
1:f:229:THR:HG22	1:f:230:GLU:N	2.01	0.74
1:n:229:THR:HG22	1:n:230:GLU:N	2.01	0.74
1:o:229:THR:HG22	1:o:230:GLU:H	1.50	0.74
1:y:229:THR:HG22	1:y:230:GLU:N	2.01	0.74
1:4:233:MET:SD	1:4:293:LEU:HD22	2.27	0.74
1:S:233:MET:SD	1:S:293:LEU:HD22	2.27	0.74
1:T:229:THR:HG22	1:T:230:GLU:N	2.01	0.74
1:W:229:THR:HG22	1:W:230:GLU:N	2.01	0.74
1:c:233:MET:SD	1:c:293:LEU:HD22	2.27	0.74
1:h:229:THR:HG22	1:h:230:GLU:H	1.50	0.74
1:j:233:MET:SD	1:j:293:LEU:HD22	2.27	0.74
1:l:147:ARG:NH1	1:l:208:LEU:CD1	2.50	0.74
1:u:229:THR:HG22	1:u:230:GLU:H	1.50	0.74
1:6:229:THR:HG22	1:6:230:GLU:N	2.01	0.74
1:B:229:THR:HG22	1:B:230:GLU:N	2.01	0.74
1:D:229:THR:HG22	1:D:230:GLU:H	1.50	0.74
1:G:229:THR:HG22	1:G:230:GLU:N	2.01	0.74
1:G:233:MET:SD	1:G:293:LEU:HD22	2.27	0.74
1:O:233:MET:SD	1:O:293:LEU:HD22	2.27	0.74
1:P:233:MET:SD	1:P:293:LEU:HD22	2.27	0.74
1:Q:233:MET:SD	1:Q:293:LEU:HD22	2.27	0.74
1:X:233:MET:SD	1:X:293:LEU:HD22	2.27	0.74
1:Z:229:THR:HG22	1:Z:230:GLU:N	2.01	0.74
1:c:147:ARG:NH1	1:c:208:LEU:CD1	2.50	0.74
1:r:229:THR:HG22	1:r:230:GLU:N	2.01	0.74
1:v:229:THR:HG22	1:v:230:GLU:H	1.50	0.74
1:6:233:MET:SD	1:6:293:LEU:HD22	2.27	0.74
1:C:233:MET:SD	1:C:293:LEU:HD22	2.27	0.74
1:K:147:ARG:NH1	1:K:208:LEU:CD1	2.50	0.74
1:K:229:THR:HG22	1:K:230:GLU:N	2.01	0.74
1:N:229:THR:HG22	1:N:230:GLU:N	2.01	0.74
1:N:233:MET:SD	1:N:293:LEU:HD22	2.27	0.74
1:R:233:MET:SD	1:R:293:LEU:HD22	2.27	0.74
1:Z:229:THR:HG22	1:Z:230:GLU:H	1.50	0.74
1:i:147:ARG:NH1	1:i:208:LEU:CD1	2.50	0.74
1:k:229:THR:HG22	1:k:230:GLU:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:233:MET:SD	1:l:293:LEU:HD22	2.27	0.74
1:C:147:ARG:NH1	1:C:208:LEU:CD1	2.50	0.74
1:D:229:THR:HG22	1:D:230:GLU:N	2.01	0.74
1:G:149:THR:OG1	1:G:150:PRO:HD3	1.85	0.74
1:M:233:MET:SD	1:M:293:LEU:HD22	2.27	0.74
1:T:229:THR:HG22	1:T:230:GLU:H	1.50	0.74
1:c:229:THR:HG22	1:c:230:GLU:N	2.01	0.74
1:k:233:MET:SD	1:k:293:LEU:HD22	2.27	0.74
1:p:233:MET:SD	1:p:293:LEU:HD22	2.27	0.74
1:x:233:MET:SD	1:x:293:LEU:HD22	2.27	0.74
1:5:233:MET:SD	1:5:293:LEU:HD22	2.27	0.74
1:A:147:ARG:NH1	1:A:208:LEU:CD1	2.50	0.74
1:P:229:THR:HG22	1:P:230:GLU:N	2.01	0.74
1:Y:229:THR:HG22	1:Y:230:GLU:H	1.50	0.74
1:b:229:THR:HG22	1:b:230:GLU:H	1.50	0.74
1:n:229:THR:HG22	1:n:230:GLU:H	1.50	0.74
1:q:233:MET:SD	1:q:293:LEU:HD22	2.27	0.74
1:1:233:MET:SD	1:1:293:LEU:HD22	2.27	0.74
1:F:147:ARG:NH1	1:F:208:LEU:CD1	2.50	0.74
1:I:233:MET:SD	1:I:293:LEU:HD22	2.27	0.74
1:m:233:MET:SD	1:m:293:LEU:HD22	2.27	0.74
1:8:350:ILE:HG23	1:8:352:ILE:HG23	1.70	0.74
1:H:233:MET:SD	1:H:293:LEU:HD22	2.27	0.74
1:L:229:THR:HG22	1:L:230:GLU:N	2.01	0.74
1:b:147:ARG:NH1	1:b:208:LEU:CD1	2.50	0.74
1:j:147:ARG:NH1	1:j:208:LEU:CD1	2.50	0.74
1:w:233:MET:SD	1:w:293:LEU:HD22	2.27	0.74
1:1:350:ILE:HG23	1:1:352:ILE:HG23	1.70	0.74
1:5:147:ARG:NH1	1:5:208:LEU:CD1	2.50	0.74
1:C:229:THR:HG22	1:C:230:GLU:N	2.01	0.74
1:E:147:ARG:NH1	1:E:208:LEU:CD1	2.50	0.74
1:H:229:THR:HG22	1:H:230:GLU:N	2.01	0.74
1:d:350:ILE:HG23	1:d:352:ILE:HG23	1.70	0.74
1:e:233:MET:SD	1:e:293:LEU:HD22	2.27	0.74
1:i:350:ILE:HG23	1:i:352:ILE:HG23	1.70	0.74
1:5:350:ILE:HG23	1:5:352:ILE:HG23	1.70	0.74
1:H:350:ILE:HG23	1:H:352:ILE:HG23	1.70	0.74
1:L:350:ILE:HG23	1:L:352:ILE:HG23	1.70	0.74
1:S:229:THR:HG22	1:S:230:GLU:H	1.50	0.74
1:W:233:MET:SD	1:W:293:LEU:HD22	2.27	0.74
1:f:233:MET:SD	1:f:293:LEU:HD22	2.27	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:233:MET:SD	1:y:293:LEU:HD22	2.27	0.74
1:y:350:ILE:HG23	1:y:352:ILE:HG23	1.70	0.74
1:8:233:MET:SD	1:8:293:LEU:HD22	2.27	0.73
1:9:233:MET:SD	1:9:293:LEU:HD22	2.27	0.73
1:C:350:ILE:HG23	1:C:352:ILE:HG23	1.70	0.73
1:O:229:THR:HG22	1:O:230:GLU:H	1.50	0.73
1:P:350:ILE:HG23	1:P:352:ILE:HG23	1.70	0.73
1:W:147:ARG:NH1	1:W:208:LEU:CD1	2.50	0.73
1:g:229:THR:HG22	1:g:230:GLU:N	2.01	0.73
1:s:233:MET:SD	1:s:293:LEU:HD22	2.27	0.73
1:A:350:ILE:HG23	1:A:352:ILE:HG23	1.70	0.73
1:F:233:MET:SD	1:F:293:LEU:HD22	2.27	0.73
1:L:233:MET:SD	1:L:293:LEU:HD22	2.27	0.73
1:N:147:ARG:NH1	1:N:208:LEU:CD1	2.50	0.73
1:X:350:ILE:HG23	1:X:352:ILE:HG23	1.70	0.73
1:Y:147:ARG:NH1	1:Y:208:LEU:CD1	2.50	0.73
1:Z:233:MET:SD	1:Z:293:LEU:HD22	2.27	0.73
1:g:147:ARG:NH1	1:g:208:LEU:CD1	2.50	0.73
1:m:350:ILE:HG23	1:m:352:ILE:HG23	1.70	0.73
1:A:233:MET:SD	1:A:293:LEU:HD22	2.27	0.73
1:S:229:THR:HG22	1:S:230:GLU:N	2.01	0.73
1:Y:233:MET:SD	1:Y:293:LEU:HD22	2.27	0.73
1:n:147:ARG:NH1	1:n:208:LEU:CD1	2.50	0.73
1:o:350:ILE:HG23	1:o:352:ILE:HG23	1.70	0.73
1:z:233:MET:SD	1:z:293:LEU:HD22	2.27	0.73
1:1:229:THR:HG22	1:1:230:GLU:H	1.50	0.73
1:4:350:ILE:HG23	1:4:352:ILE:HG23	1.70	0.73
1:B:233:MET:SD	1:B:293:LEU:HD22	2.27	0.73
1:D:233:MET:SD	1:D:293:LEU:HD22	2.27	0.73
1:D:350:ILE:HG23	1:D:352:ILE:HG23	1.70	0.73
1:G:147:ARG:NH1	1:G:208:LEU:CD1	2.50	0.73
1:G:229:THR:HG22	1:G:230:GLU:H	1.50	0.73
1:L:147:ARG:NH1	1:L:208:LEU:CD1	2.50	0.73
1:V:233:MET:SD	1:V:293:LEU:HD22	2.27	0.73
1:h:147:ARG:NH1	1:h:208:LEU:CD1	2.50	0.73
1:i:233:MET:SD	1:i:293:LEU:HD22	2.27	0.73
1:6:147:ARG:NH1	1:6:208:LEU:CD1	2.50	0.73
1:9:350:ILE:HG23	1:9:352:ILE:HG23	1.70	0.73
1:R:350:ILE:HG23	1:R:352:ILE:HG23	1.70	0.73
1:S:350:ILE:HG23	1:S:352:ILE:HG23	1.70	0.73
1:a:350:ILE:HG23	1:a:352:ILE:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:350:ILE:HG23	1:r:352:ILE:HG23	1.70	0.73
1:s:147:ARG:NH1	1:s:208:LEU:CD1	2.50	0.73
1:2:233:MET:SD	1:2:293:LEU:HD22	2.27	0.73
1:7:229:THR:HG22	1:7:230:GLU:N	2.01	0.73
1:J:350:ILE:HG23	1:J:352:ILE:HG23	1.70	0.73
1:f:147:ARG:NH1	1:f:208:LEU:CD1	2.50	0.73
1:1:147:ARG:NH1	1:1:208:LEU:CD1	2.50	0.73
1:8:147:ARG:NH1	1:8:208:LEU:CD1	2.50	0.73
1:F:350:ILE:HG23	1:F:352:ILE:HG23	1.70	0.73
1:P:147:ARG:NH1	1:P:208:LEU:CD1	2.50	0.73
1:X:147:ARG:NH1	1:X:208:LEU:CD1	2.50	0.73
1:c:350:ILE:HG23	1:c:352:ILE:HG23	1.70	0.73
1:i:229:THR:HG22	1:i:230:GLU:H	1.50	0.73
1:z:229:THR:HG22	1:z:230:GLU:N	2.01	0.73
1:7:350:ILE:HG23	1:7:352:ILE:HG23	1.70	0.73
1:w:147:ARG:NH1	1:w:208:LEU:CD1	2.50	0.73
1:H:211:ASP:CA	1:H:249:LEU:HD11	2.19	0.73
1:Q:229:THR:HG22	1:Q:230:GLU:H	1.50	0.73
1:R:147:ARG:NH1	1:R:208:LEU:CD1	2.50	0.73
1:T:350:ILE:HG23	1:T:352:ILE:HG23	1.70	0.73
1:a:211:ASP:CA	1:a:249:LEU:HD11	2.19	0.73
1:k:350:ILE:HG23	1:k:352:ILE:HG23	1.70	0.73
1:p:211:ASP:CA	1:p:249:LEU:HD11	2.19	0.73
1:p:350:ILE:HG23	1:p:352:ILE:HG23	1.70	0.73
1:w:211:ASP:CA	1:w:249:LEU:HD11	2.19	0.73
1:y:211:ASP:CA	1:y:249:LEU:HD11	2.19	0.73
1:1:211:ASP:CA	1:1:249:LEU:HD11	2.19	0.72
1:4:211:ASP:CA	1:4:249:LEU:HD11	2.19	0.72
1:E:211:ASP:CA	1:E:249:LEU:HD11	2.19	0.72
1:F:211:ASP:CA	1:F:249:LEU:HD11	2.19	0.72
1:K:211:ASP:CA	1:K:249:LEU:HD11	2.19	0.72
1:M:147:ARG:NH1	1:M:208:LEU:CD1	2.50	0.72
1:P:211:ASP:CA	1:P:249:LEU:HD11	2.19	0.72
1:V:350:ILE:HG23	1:V:352:ILE:HG23	1.70	0.72
1:b:211:ASP:CA	1:b:249:LEU:HD11	2.19	0.72
1:i:211:ASP:CA	1:i:249:LEU:HD11	2.19	0.72
1:m:211:ASP:CA	1:m:249:LEU:HD11	2.19	0.72
1:t:211:ASP:CA	1:t:249:LEU:HD11	2.19	0.72
1:u:147:ARG:NH1	1:u:208:LEU:CD1	2.50	0.72
1:x:211:ASP:CA	1:x:249:LEU:HD11	2.19	0.72
1:8:211:ASP:CA	1:8:249:LEU:HD11	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:211:ASP:CA	1:D:249:LEU:HD11	2.19	0.72
1:G:211:ASP:CA	1:G:249:LEU:HD11	2.19	0.72
1:M:211:ASP:CA	1:M:249:LEU:HD11	2.19	0.72
1:Q:350:ILE:HG23	1:Q:352:ILE:HG23	1.70	0.72
1:X:211:ASP:CA	1:X:249:LEU:HD11	2.19	0.72
1:Y:211:ASP:CA	1:Y:249:LEU:HD11	2.19	0.72
1:l:211:ASP:CA	1:l:249:LEU:HD11	2.19	0.72
1:L:211:ASP:CA	1:L:249:LEU:HD11	2.19	0.72
1:R:211:ASP:CA	1:R:249:LEU:HD11	2.19	0.72
1:Z:350:ILE:HG23	1:Z:352:ILE:HG23	1.70	0.72
1:j:211:ASP:CA	1:j:249:LEU:HD11	2.19	0.72
1:o:211:ASP:CA	1:o:249:LEU:HD11	2.19	0.72
1:u:350:ILE:HG23	1:u:352:ILE:HG23	1.70	0.72
1:6:211:ASP:CA	1:6:249:LEU:HD11	2.19	0.72
1:7:211:ASP:CA	1:7:249:LEU:HD11	2.19	0.72
1:9:211:ASP:CA	1:9:249:LEU:HD11	2.19	0.72
1:C:229:THR:HG22	1:C:230:GLU:H	1.50	0.72
1:E:350:ILE:HG23	1:E:352:ILE:HG23	1.70	0.72
1:J:211:ASP:CA	1:J:249:LEU:HD11	2.19	0.72
1:c:211:ASP:CA	1:c:249:LEU:HD11	2.19	0.72
1:d:211:ASP:CA	1:d:249:LEU:HD11	2.19	0.72
1:l:350:ILE:HG23	1:l:352:ILE:HG23	1.70	0.72
1:n:211:ASP:CA	1:n:249:LEU:HD11	2.19	0.72
1:B:350:ILE:HG23	1:B:352:ILE:HG23	1.70	0.72
1:L:211:ASP:HB3	1:L:249:LEU:HD13	1.72	0.72
1:z:147:ARG:NH1	1:z:208:LEU:CD1	2.50	0.72
1:3:211:ASP:CA	1:3:249:LEU:HD11	2.19	0.72
1:O:350:ILE:HG23	1:O:352:ILE:HG23	1.70	0.72
1:T:298:TYR:CD2	1:T:299:GLU:HG3	2.25	0.72
1:W:211:ASP:CA	1:W:249:LEU:HD11	2.19	0.72
1:a:147:ARG:NH1	1:a:208:LEU:CD1	2.50	0.72
1:b:350:ILE:HG23	1:b:352:ILE:HG23	1.70	0.72
1:k:211:ASP:CA	1:k:249:LEU:HD11	2.19	0.72
1:n:211:ASP:HB3	1:n:249:LEU:HD13	1.72	0.72
1:s:350:ILE:HG23	1:s:352:ILE:HG23	1.70	0.72
1:x:147:ARG:NH1	1:x:208:LEU:CD1	2.50	0.72
1:5:211:ASP:CA	1:5:249:LEU:HD11	2.19	0.72
1:D:147:ARG:NH1	1:D:208:LEU:CD1	2.50	0.72
1:K:211:ASP:HB3	1:K:249:LEU:HD13	1.72	0.72
1:N:350:ILE:HG23	1:N:352:ILE:HG23	1.70	0.72
1:V:211:ASP:CA	1:V:249:LEU:HD11	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:211:ASP:CA	1:Z:249:LEU:HD11	2.19	0.72
1:d:147:ARG:NH1	1:d:208:LEU:CD1	2.50	0.72
1:f:211:ASP:HB3	1:f:249:LEU:HD13	1.72	0.72
1:g:211:ASP:CA	1:g:249:LEU:HD11	2.19	0.72
1:u:211:ASP:CA	1:u:249:LEU:HD11	2.19	0.72
1:z:211:ASP:CA	1:z:249:LEU:HD11	2.19	0.72
1:3:350:ILE:HG23	1:3:352:ILE:HG23	1.70	0.72
1:Q:211:ASP:CA	1:Q:249:LEU:HD11	2.19	0.72
1:T:211:ASP:CA	1:T:249:LEU:HD11	2.19	0.72
1:V:211:ASP:HB3	1:V:249:LEU:HD13	1.72	0.72
1:W:211:ASP:HB3	1:W:249:LEU:HD13	1.72	0.72
1:e:350:ILE:HG23	1:e:352:ILE:HG23	1.70	0.72
1:h:211:ASP:HB3	1:h:249:LEU:HD13	1.72	0.72
1:h:350:ILE:HG23	1:h:352:ILE:HG23	1.70	0.72
1:j:350:ILE:HG23	1:j:352:ILE:HG23	1.70	0.72
1:p:147:ARG:NH1	1:p:208:LEU:CD1	2.50	0.72
1:q:147:ARG:NH1	1:q:208:LEU:CD1	2.50	0.72
1:z:298:TYR:CD2	1:z:299:GLU:HG3	2.25	0.72
1:2:211:ASP:CA	1:2:249:LEU:HD11	2.19	0.72
1:5:298:TYR:CD2	1:5:299:GLU:HG3	2.25	0.72
1:7:147:ARG:NH1	1:7:208:LEU:CD1	2.50	0.72
1:9:147:ARG:NH1	1:9:208:LEU:CD1	2.50	0.72
1:A:211:ASP:CA	1:A:249:LEU:HD11	2.19	0.72
1:C:211:ASP:CA	1:C:249:LEU:HD11	2.19	0.72
1:I:211:ASP:CA	1:I:249:LEU:HD11	2.19	0.72
1:T:147:ARG:NH1	1:T:208:LEU:CD1	2.50	0.72
1:c:298:TYR:CD2	1:c:299:GLU:HG3	2.25	0.72
1:h:211:ASP:CA	1:h:249:LEU:HD11	2.19	0.72
1:m:147:ARG:NH1	1:m:208:LEU:CD1	2.50	0.72
1:v:211:ASP:CA	1:v:249:LEU:HD11	2.19	0.72
1:H:211:ASP:HB3	1:H:249:LEU:HD13	1.72	0.72
1:I:147:ARG:NH1	1:I:208:LEU:CD1	2.50	0.72
1:N:298:TYR:CD2	1:N:299:GLU:HG3	2.25	0.72
1:O:211:ASP:CA	1:O:249:LEU:HD11	2.19	0.72
1:P:211:ASP:HB3	1:P:249:LEU:HD13	1.72	0.72
1:W:350:ILE:HG23	1:W:352:ILE:HG23	1.70	0.72
1:Z:147:ARG:NH1	1:Z:208:LEU:CD1	2.50	0.72
1:c:211:ASP:HB3	1:c:249:LEU:HD13	1.72	0.72
1:f:211:ASP:CA	1:f:249:LEU:HD11	2.19	0.72
1:j:229:THR:HG22	1:j:230:GLU:N	2.01	0.72
1:q:350:ILE:HG23	1:q:352:ILE:HG23	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:211:ASP:HB3	1:5:249:LEU:HD13	1.72	0.71
1:B:147:ARG:NH1	1:B:208:LEU:CD1	2.50	0.71
1:B:211:ASP:CA	1:B:249:LEU:HD11	2.19	0.71
1:e:211:ASP:HB3	1:e:249:LEU:HD13	1.72	0.71
1:v:350:ILE:HG23	1:v:352:ILE:HG23	1.70	0.71
1:4:211:ASP:HB3	1:4:249:LEU:HD13	1.72	0.71
1:6:298:TYR:CD2	1:6:299:GLU:HG3	2.25	0.71
1:d:211:ASP:HB3	1:d:249:LEU:HD13	1.72	0.71
1:q:211:ASP:CA	1:q:249:LEU:HD11	2.19	0.71
1:s:211:ASP:HB3	1:s:249:LEU:HD13	1.72	0.71
1:x:350:ILE:HG23	1:x:352:ILE:HG23	1.70	0.71
1:y:147:ARG:NH1	1:y:208:LEU:CD1	2.50	0.71
1:z:350:ILE:HG23	1:z:352:ILE:HG23	1.70	0.71
1:6:350:ILE:HG23	1:6:352:ILE:HG23	1.70	0.71
1:L:298:TYR:CD2	1:L:299:GLU:HG3	2.25	0.71
1:O:298:TYR:CD2	1:O:299:GLU:HG3	2.25	0.71
1:Y:350:ILE:HG23	1:Y:352:ILE:HG23	1.70	0.71
1:r:211:ASP:CA	1:r:249:LEU:HD11	2.19	0.71
1:s:211:ASP:CA	1:s:249:LEU:HD11	2.19	0.71
1:w:350:ILE:HG23	1:w:352:ILE:HG23	1.70	0.71
1:M:350:ILE:HG23	1:M:352:ILE:HG23	1.70	0.71
1:N:211:ASP:CA	1:N:249:LEU:HD11	2.19	0.71
1:S:298:TYR:CD2	1:S:299:GLU:HG3	2.25	0.71
1:m:231:LEU:O	1:m:233:MET:HE2	1.91	0.71
1:t:350:ILE:HG23	1:t:352:ILE:HG23	1.70	0.71
1:6:211:ASP:HB3	1:6:249:LEU:HD13	1.72	0.71
1:D:211:ASP:HB3	1:D:249:LEU:HD13	1.72	0.71
1:H:147:ARG:NH1	1:H:208:LEU:CD1	2.50	0.71
1:K:350:ILE:HG23	1:K:352:ILE:HG23	1.70	0.71
1:S:211:ASP:CA	1:S:249:LEU:HD11	2.19	0.71
1:S:294:ASP:CG	1:S:355:VAL:HG22	2.16	0.71
1:l:298:TYR:CD2	1:l:299:GLU:HG3	2.25	0.71
1:q:211:ASP:HB3	1:q:249:LEU:HD13	1.72	0.71
1:v:211:ASP:HB3	1:v:249:LEU:HD13	1.72	0.71
1:v:231:LEU:O	1:v:233:MET:HE2	1.91	0.71
1:z:294:ASP:CG	1:z:355:VAL:HG22	2.16	0.71
1:7:231:LEU:O	1:7:233:MET:HE2	1.91	0.71
1:B:294:ASP:CG	1:B:355:VAL:HG22	2.16	0.71
1:G:350:ILE:HG23	1:G:352:ILE:HG23	1.70	0.71
1:I:231:LEU:O	1:I:233:MET:HE2	1.91	0.71
1:M:211:ASP:HB3	1:M:249:LEU:HD13	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:231:LEU:O	1:V:233:MET:HE2	1.91	0.71
1:Y:211:ASP:HB3	1:Y:249:LEU:HD13	1.72	0.71
1:f:294:ASP:CG	1:f:355:VAL:HG22	2.16	0.71
1:g:298:TYR:CD2	1:g:299:GLU:HG3	2.25	0.71
1:g:350:ILE:HG23	1:g:352:ILE:HG23	1.70	0.71
1:w:298:TYR:CD2	1:w:299:GLU:HG3	2.25	0.71
1:3:147:ARG:NH1	1:3:208:LEU:CD1	2.50	0.71
1:3:231:LEU:O	1:3:233:MET:HE2	1.91	0.71
1:C:231:LEU:O	1:C:233:MET:HE2	1.91	0.71
1:H:231:LEU:O	1:H:233:MET:HE2	1.91	0.71
1:N:231:LEU:O	1:N:233:MET:HE2	1.91	0.71
1:X:231:LEU:O	1:X:233:MET:HE2	1.91	0.71
1:a:211:ASP:HB3	1:a:249:LEU:HD13	1.72	0.71
1:d:231:LEU:O	1:d:233:MET:HE2	1.91	0.71
1:e:211:ASP:CA	1:e:249:LEU:HD11	2.19	0.71
1:r:147:ARG:NH1	1:r:208:LEU:CD1	2.50	0.71
1:u:294:ASP:CG	1:u:355:VAL:HG22	2.16	0.71
1:x:231:LEU:O	1:x:233:MET:HE2	1.91	0.71
1:y:211:ASP:HB3	1:y:249:LEU:HD13	1.72	0.71
1:2:147:ARG:NH1	1:2:208:LEU:CD1	2.50	0.71
1:D:231:LEU:O	1:D:233:MET:HE2	1.91	0.71
1:E:294:ASP:CG	1:E:355:VAL:HG22	2.16	0.71
1:I:350:ILE:HG23	1:I:352:ILE:HG23	1.70	0.71
1:Q:147:ARG:NH1	1:Q:208:LEU:CD1	2.50	0.71
1:Q:211:ASP:HB3	1:Q:249:LEU:HD13	1.72	0.71
1:b:211:ASP:HB3	1:b:249:LEU:HD13	1.72	0.71
1:e:294:ASP:CG	1:e:355:VAL:HG22	2.16	0.71
1:e:298:TYR:CD2	1:e:299:GLU:HG3	2.25	0.71
1:f:350:ILE:HG23	1:f:352:ILE:HG23	1.70	0.71
1:g:294:ASP:CG	1:g:355:VAL:HG22	2.16	0.71
1:j:294:ASP:CG	1:j:355:VAL:HG22	2.16	0.71
1:l:211:ASP:HB3	1:l:249:LEU:HD13	1.72	0.71
1:n:231:LEU:O	1:n:233:MET:HE2	1.91	0.71
1:q:294:ASP:CG	1:q:355:VAL:HG22	2.16	0.71
1:s:294:ASP:CG	1:s:355:VAL:HG22	2.16	0.71
1:v:147:ARG:NH1	1:v:208:LEU:CD1	2.50	0.71
1:w:294:ASP:CG	1:w:355:VAL:HG22	2.16	0.71
1:2:294:ASP:CG	1:2:355:VAL:HG22	2.16	0.71
1:2:350:ILE:HG23	1:2:352:ILE:HG23	1.70	0.71
1:7:298:TYR:CD2	1:7:299:GLU:HG3	2.25	0.71
1:J:294:ASP:CG	1:J:355:VAL:HG22	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:231:LEU:O	1:S:233:MET:HE2	1.91	0.71
1:n:350:ILE:HG23	1:n:352:ILE:HG23	1.70	0.71
1:q:298:TYR:CD2	1:q:299:GLU:HG3	2.25	0.71
1:s:231:LEU:O	1:s:233:MET:HE2	1.91	0.71
1:t:211:ASP:HB3	1:t:249:LEU:HD13	1.72	0.71
1:4:147:ARG:NH1	1:4:208:LEU:CD1	2.50	0.71
1:M:231:LEU:O	1:M:233:MET:HE2	1.91	0.71
1:O:231:LEU:O	1:O:233:MET:HE2	1.91	0.71
1:O:294:ASP:CG	1:O:355:VAL:HG22	2.16	0.71
1:a:298:TYR:CD2	1:a:299:GLU:HG3	2.25	0.71
1:b:294:ASP:CG	1:b:355:VAL:HG22	2.16	0.71
1:m:298:TYR:CD2	1:m:299:GLU:HG3	2.25	0.71
1:o:294:ASP:CG	1:o:355:VAL:HG22	2.16	0.71
1:p:298:TYR:CD2	1:p:299:GLU:HG3	2.25	0.71
1:9:231:LEU:O	1:9:233:MET:HE2	1.91	0.70
1:A:294:ASP:CG	1:A:355:VAL:HG22	2.16	0.70
1:F:211:ASP:HB3	1:F:249:LEU:HD13	1.72	0.70
1:F:231:LEU:O	1:F:233:MET:HE2	1.91	0.70
1:G:231:LEU:O	1:G:233:MET:HE2	1.91	0.70
1:G:298:TYR:CD2	1:G:299:GLU:HG3	2.25	0.70
1:I:294:ASP:CG	1:I:355:VAL:HG22	2.16	0.70
1:L:231:LEU:O	1:L:233:MET:HE2	1.91	0.70
1:P:298:TYR:CD2	1:P:299:GLU:HG3	2.25	0.70
1:Q:294:ASP:CG	1:Q:355:VAL:HG22	2.16	0.70
1:S:147:ARG:NH1	1:S:208:LEU:CD1	2.50	0.70
1:T:231:LEU:O	1:T:233:MET:HE2	1.91	0.70
1:W:294:ASP:CG	1:W:355:VAL:HG22	2.16	0.70
1:a:231:LEU:O	1:a:233:MET:HE2	1.91	0.70
1:e:231:LEU:O	1:e:233:MET:HE2	1.91	0.70
1:f:298:TYR:CD2	1:f:299:GLU:HG3	2.25	0.70
1:r:231:LEU:O	1:r:233:MET:HE2	1.91	0.70
1:3:298:TYR:CD2	1:3:299:GLU:HG3	2.25	0.70
1:9:298:TYR:CD2	1:9:299:GLU:HG3	2.25	0.70
1:G:211:ASP:HB3	1:G:249:LEU:HD13	1.72	0.70
1:R:211:ASP:HB3	1:R:249:LEU:HD13	1.72	0.70
1:Z:298:TYR:CD2	1:Z:299:GLU:HG3	2.25	0.70
1:g:231:LEU:O	1:g:233:MET:HE2	1.91	0.70
1:h:231:LEU:O	1:h:233:MET:HE2	1.91	0.70
1:i:298:TYR:CD2	1:i:299:GLU:HG3	2.25	0.70
1:o:147:ARG:NH1	1:o:208:LEU:CD1	2.50	0.70
1:r:294:ASP:CG	1:r:355:VAL:HG22	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:231:LEU:O	1:t:233:MET:HE2	1.91	0.70
1:t:294:ASP:CG	1:t:355:VAL:HG22	2.16	0.70
1:x:294:ASP:CG	1:x:355:VAL:HG22	2.16	0.70
1:5:231:LEU:O	1:5:233:MET:HE2	1.91	0.70
1:5:294:ASP:CG	1:5:355:VAL:HG22	2.16	0.70
1:E:211:ASP:HB3	1:E:249:LEU:HD13	1.72	0.70
1:E:298:TYR:CD2	1:E:299:GLU:HG3	2.25	0.70
1:G:294:ASP:CG	1:G:355:VAL:HG22	2.16	0.70
1:N:211:ASP:HB3	1:N:249:LEU:HD13	1.72	0.70
1:Y:231:LEU:O	1:Y:233:MET:HE2	1.91	0.70
1:a:211:ASP:HB3	1:a:249:LEU:HD11	1.74	0.70
1:k:147:ARG:NH1	1:k:208:LEU:CD1	2.50	0.70
1:l:294:ASP:CG	1:l:355:VAL:HG22	2.16	0.70
1:p:231:LEU:O	1:p:233:MET:HE2	1.91	0.70
1:y:294:ASP:CG	1:y:355:VAL:HG22	2.16	0.70
1:1:294:ASP:CG	1:1:355:VAL:HG22	2.16	0.70
1:6:294:ASP:CG	1:6:355:VAL:HG22	2.16	0.70
1:B:211:ASP:HB3	1:B:249:LEU:HD13	1.72	0.70
1:L:294:ASP:CG	1:L:355:VAL:HG22	2.16	0.70
1:Y:294:ASP:CG	1:Y:355:VAL:HG22	2.16	0.70
1:j:211:ASP:HB3	1:j:249:LEU:HD13	1.72	0.70
1:s:298:TYR:CD2	1:s:299:GLU:HG3	2.25	0.70
1:w:231:LEU:O	1:w:233:MET:HE2	1.91	0.70
1:4:231:LEU:O	1:4:233:MET:HE2	1.91	0.70
1:C:211:ASP:HB3	1:C:249:LEU:HD11	1.74	0.70
1:O:147:ARG:NH1	1:O:208:LEU:CD1	2.50	0.70
1:Q:231:LEU:O	1:Q:233:MET:HE2	1.91	0.70
1:a:294:ASP:CG	1:a:355:VAL:HG22	2.16	0.70
1:i:294:ASP:CG	1:i:355:VAL:HG22	2.16	0.70
1:n:211:ASP:HB3	1:n:249:LEU:HD11	1.74	0.70
1:q:231:LEU:O	1:q:233:MET:HE2	1.91	0.70
1:r:211:ASP:HB3	1:r:249:LEU:HD13	1.72	0.70
1:9:232:VAL:HG12	1:9:234:PRO:HD2	1.74	0.70
1:A:211:ASP:HB3	1:A:249:LEU:HD13	1.72	0.70
1:B:231:LEU:O	1:B:233:MET:HE2	1.91	0.70
1:C:211:ASP:HB3	1:C:249:LEU:HD13	1.72	0.70
1:E:231:LEU:O	1:E:233:MET:HE2	1.91	0.70
1:H:211:ASP:HB3	1:H:249:LEU:HD11	1.74	0.70
1:J:211:ASP:HB3	1:J:249:LEU:HD11	1.74	0.70
1:T:211:ASP:HB3	1:T:249:LEU:HD13	1.72	0.70
1:V:147:ARG:NH1	1:V:208:LEU:CD1	2.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:231:LEU:O	1:Z:233:MET:HE2	1.91	0.70
1:o:231:LEU:O	1:o:233:MET:HE2	1.91	0.70
1:2:231:LEU:O	1:2:233:MET:HE2	1.91	0.70
1:3:294:ASP:CG	1:3:355:VAL:HG22	2.16	0.70
1:7:294:ASP:CG	1:7:355:VAL:HG22	2.16	0.70
1:Q:232:VAL:HG12	1:Q:234:PRO:HD2	1.74	0.70
1:Q:298:TYR:CD2	1:Q:299:GLU:HG3	2.25	0.70
1:T:294:ASP:CG	1:T:355:VAL:HG22	2.16	0.70
1:W:231:LEU:O	1:W:233:MET:HE2	1.91	0.70
1:b:211:ASP:HB3	1:b:249:LEU:HD11	1.74	0.70
1:b:231:LEU:O	1:b:233:MET:HE2	1.91	0.70
1:c:231:LEU:O	1:c:233:MET:HE2	1.91	0.70
1:d:294:ASP:CG	1:d:355:VAL:HG22	2.16	0.70
1:f:231:LEU:O	1:f:233:MET:HE2	1.91	0.70
1:i:231:LEU:O	1:i:233:MET:HE2	1.91	0.70
1:j:211:ASP:HB3	1:j:249:LEU:HD11	1.74	0.70
1:t:211:ASP:HB3	1:t:249:LEU:HD11	1.74	0.70
1:u:211:ASP:HB3	1:u:249:LEU:HD11	1.74	0.70
1:u:232:VAL:HG12	1:u:234:PRO:HD2	1.74	0.70
1:1:231:LEU:O	1:1:233:MET:HE2	1.91	0.70
1:5:211:ASP:HB3	1:5:249:LEU:HD11	1.74	0.70
1:J:147:ARG:NH1	1:J:208:LEU:CD1	2.50	0.70
1:O:211:ASP:HB3	1:O:249:LEU:HD13	1.72	0.70
1:R:231:LEU:O	1:R:233:MET:HE2	1.91	0.70
1:h:294:ASP:CG	1:h:355:VAL:HG22	2.16	0.70
1:j:232:VAL:HG12	1:j:234:PRO:HD2	1.74	0.70
1:k:211:ASP:HB3	1:k:249:LEU:HD13	1.72	0.70
1:k:232:VAL:HG12	1:k:234:PRO:HD2	1.74	0.70
1:l:231:LEU:O	1:l:233:MET:HE2	1.91	0.70
1:p:294:ASP:CG	1:p:355:VAL:HG22	2.16	0.70
1:r:232:VAL:HG12	1:r:234:PRO:HD2	1.74	0.70
1:6:231:LEU:O	1:6:233:MET:HE2	1.91	0.70
1:8:211:ASP:HB3	1:8:249:LEU:HD13	1.72	0.70
1:C:232:VAL:HG12	1:C:234:PRO:HD2	1.74	0.70
1:D:294:ASP:CG	1:D:355:VAL:HG22	2.16	0.70
1:E:232:VAL:HG12	1:E:234:PRO:HD2	1.74	0.70
1:R:232:VAL:HG12	1:R:234:PRO:HD2	1.74	0.70
1:T:211:ASP:HB3	1:T:249:LEU:HD11	1.74	0.70
1:X:211:ASP:HB3	1:X:249:LEU:HD11	1.74	0.70
1:i:211:ASP:HB3	1:i:249:LEU:HD11	1.74	0.70
1:j:231:LEU:O	1:j:233:MET:HE2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:232:VAL:HG12	1:l:234:PRO:HD2	1.74	0.70
1:p:211:ASP:HB3	1:p:249:LEU:HD13	1.72	0.70
1:t:147:ARG:NH1	1:t:208:LEU:CD1	2.50	0.70
1:v:211:ASP:HB3	1:v:249:LEU:HD11	1.74	0.70
1:y:231:LEU:O	1:y:233:MET:HE2	1.91	0.70
1:4:294:ASP:CG	1:4:355:VAL:HG22	2.16	0.70
1:7:211:ASP:HB3	1:7:249:LEU:HD13	1.72	0.70
1:A:231:LEU:O	1:A:233:MET:HE2	1.91	0.70
1:S:211:ASP:HB3	1:S:249:LEU:HD13	1.72	0.70
1:T:232:VAL:HG12	1:T:234:PRO:HD2	1.74	0.70
1:X:232:VAL:HG12	1:X:234:PRO:HD2	1.74	0.70
1:k:298:TYR:CD2	1:k:299:GLU:HG3	2.25	0.70
1:m:211:ASP:HB3	1:m:249:LEU:HD13	1.72	0.70
1:m:294:ASP:CG	1:m:355:VAL:HG22	2.16	0.70
1:u:231:LEU:O	1:u:233:MET:HE2	1.91	0.70
1:w:232:VAL:HG12	1:w:234:PRO:HD2	1.74	0.70
1:z:231:LEU:O	1:z:233:MET:HE2	1.91	0.70
1:3:211:ASP:HB3	1:3:249:LEU:HD11	1.74	0.69
1:7:211:ASP:HB3	1:7:249:LEU:HD11	1.74	0.69
1:H:294:ASP:CG	1:H:355:VAL:HG22	2.16	0.69
1:J:232:VAL:HG12	1:J:234:PRO:HD2	1.74	0.69
1:M:294:ASP:CG	1:M:355:VAL:HG22	2.16	0.69
1:P:294:ASP:CG	1:P:355:VAL:HG22	2.16	0.69
1:c:294:ASP:CG	1:c:355:VAL:HG22	2.16	0.69
1:f:232:VAL:HG12	1:f:234:PRO:HD2	1.74	0.69
1:j:211:ASP:O	1:j:249:LEU:HD12	1.92	0.69
1:k:211:ASP:O	1:k:249:LEU:HD12	1.93	0.69
1:3:211:ASP:HB3	1:3:249:LEU:HD13	1.72	0.69
1:7:211:ASP:O	1:7:249:LEU:HD12	1.92	0.69
1:7:232:VAL:HG12	1:7:234:PRO:HD2	1.74	0.69
1:8:294:ASP:CG	1:8:355:VAL:HG22	2.16	0.69
1:8:298:TYR:CD2	1:8:299:GLU:HG3	2.25	0.69
1:9:211:ASP:HB3	1:9:249:LEU:HD13	1.72	0.69
1:9:211:ASP:HB3	1:9:249:LEU:HD11	1.74	0.69
1:E:211:ASP:HB3	1:E:249:LEU:HD11	1.74	0.69
1:L:232:VAL:HG12	1:L:234:PRO:HD2	1.74	0.69
1:Z:294:ASP:CG	1:Z:355:VAL:HG22	2.16	0.69
1:p:232:VAL:HG12	1:p:234:PRO:HD2	1.74	0.69
1:x:211:ASP:HB3	1:x:249:LEU:HD13	1.72	0.69
1:1:211:ASP:O	1:1:249:LEU:HD12	1.93	0.69
1:5:211:ASP:O	1:5:249:LEU:HD12	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:211:ASP:O	1:9:249:LEU:HD12	1.93	0.69
1:F:294:ASP:CG	1:F:355:VAL:HG22	2.16	0.69
1:M:211:ASP:HB3	1:M:249:LEU:HD11	1.74	0.69
1:N:294:ASP:CG	1:N:355:VAL:HG22	2.16	0.69
1:V:298:TYR:CD2	1:V:299:GLU:HG3	2.25	0.69
1:X:294:ASP:CG	1:X:355:VAL:HG22	2.16	0.69
1:e:147:ARG:NH1	1:e:208:LEU:CD1	2.50	0.69
1:e:232:VAL:HG12	1:e:234:PRO:HD2	1.74	0.69
1:f:211:ASP:O	1:f:249:LEU:HD12	1.93	0.69
1:i:211:ASP:O	1:i:249:LEU:HD12	1.93	0.69
1:k:231:LEU:O	1:k:233:MET:HE2	1.91	0.69
1:o:232:VAL:HG12	1:o:234:PRO:HD2	1.74	0.69
1:s:211:ASP:O	1:s:249:LEU:HD12	1.92	0.69
1:y:298:TYR:CD2	1:y:299:GLU:HG3	2.25	0.69
1:2:211:ASP:HB3	1:2:249:LEU:HD13	1.72	0.69
1:8:211:ASP:HB3	1:8:249:LEU:HD11	1.74	0.69
1:G:232:VAL:HG12	1:G:234:PRO:HD2	1.74	0.69
1:K:231:LEU:O	1:K:233:MET:HE2	1.91	0.69
1:R:294:ASP:CG	1:R:355:VAL:HG22	2.16	0.69
1:V:294:ASP:CG	1:V:355:VAL:HG22	2.16	0.69
1:W:211:ASP:O	1:W:249:LEU:HD12	1.93	0.69
1:d:232:VAL:HG12	1:d:234:PRO:HD2	1.74	0.69
1:g:211:ASP:HB3	1:g:249:LEU:HD13	1.72	0.69
1:i:232:VAL:HG12	1:i:234:PRO:HD2	1.74	0.69
1:m:232:VAL:HG12	1:m:234:PRO:HD2	1.74	0.69
1:s:232:VAL:HG12	1:s:234:PRO:HD2	1.74	0.69
1:t:211:ASP:O	1:t:249:LEU:HD12	1.93	0.69
1:v:294:ASP:CG	1:v:355:VAL:HG22	2.16	0.69
1:x:211:ASP:HB3	1:x:249:LEU:HD11	1.74	0.69
1:y:211:ASP:HB3	1:y:249:LEU:HD11	1.74	0.69
1:8:231:LEU:O	1:8:233:MET:HE2	1.91	0.69
1:A:211:ASP:HB3	1:A:249:LEU:HD11	1.74	0.69
1:C:294:ASP:CG	1:C:355:VAL:HG22	2.16	0.69
1:H:298:TYR:CD2	1:H:299:GLU:HG3	2.25	0.69
1:I:211:ASP:O	1:I:249:LEU:HD12	1.93	0.69
1:P:231:LEU:O	1:P:233:MET:HE2	1.91	0.69
1:Q:211:ASP:O	1:Q:249:LEU:HD12	1.93	0.69
1:X:211:ASP:HB3	1:X:249:LEU:HD13	1.72	0.69
1:Y:294:ASP:HB2	1:Y:353:GLN:O	1.93	0.69
1:h:211:ASP:O	1:h:249:LEU:HD12	1.93	0.69
1:j:298:TYR:CD2	1:j:299:GLU:HG3	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:211:ASP:O	1:n:249:LEU:HD12	1.93	0.69
1:r:211:ASP:HB3	1:r:249:LEU:HD11	1.74	0.69
1:t:232:VAL:HG12	1:t:234:PRO:HD2	1.74	0.69
1:w:211:ASP:HB3	1:w:249:LEU:HD13	1.72	0.69
1:1:298:TYR:CD2	1:1:299:GLU:HG3	2.25	0.69
1:3:294:ASP:HB2	1:3:353:GLN:O	1.93	0.69
1:4:232:VAL:HG12	1:4:234:PRO:HD2	1.74	0.69
1:5:232:VAL:HG12	1:5:234:PRO:HD2	1.74	0.69
1:9:294:ASP:HB2	1:9:353:GLN:O	1.93	0.69
1:A:232:VAL:HG12	1:A:234:PRO:HD2	1.74	0.69
1:J:211:ASP:HB3	1:J:249:LEU:HD13	1.72	0.69
1:J:231:LEU:O	1:J:233:MET:HE2	1.91	0.69
1:K:294:ASP:CG	1:K:355:VAL:HG22	2.16	0.69
1:O:211:ASP:HB3	1:O:249:LEU:HD11	1.74	0.69
1:P:232:VAL:HG12	1:P:234:PRO:HD2	1.74	0.69
1:P:294:ASP:HB2	1:P:353:GLN:O	1.93	0.69
1:X:298:TYR:CD2	1:X:299:GLU:HG3	2.25	0.69
1:b:232:VAL:HG12	1:b:234:PRO:HD2	1.74	0.69
1:b:298:TYR:CD2	1:b:299:GLU:HG3	2.25	0.69
1:o:211:ASP:O	1:o:249:LEU:HD12	1.93	0.69
1:o:211:ASP:HB3	1:o:249:LEU:HD11	1.74	0.69
1:o:298:TYR:CD2	1:o:299:GLU:HG3	2.25	0.69
1:8:294:ASP:HB2	1:8:353:GLN:O	1.93	0.69
1:D:232:VAL:HG12	1:D:234:PRO:HD2	1.74	0.69
1:I:211:ASP:HB3	1:I:249:LEU:HD13	1.72	0.69
1:J:294:ASP:HB2	1:J:353:GLN:O	1.93	0.69
1:L:294:ASP:HB2	1:L:353:GLN:O	1.93	0.69
1:T:211:ASP:O	1:T:249:LEU:HD12	1.92	0.69
1:o:211:ASP:HB3	1:o:249:LEU:HD13	1.72	0.69
1:p:294:ASP:HB2	1:p:353:GLN:O	1.93	0.69
1:q:211:ASP:HB3	1:q:249:LEU:HD11	1.74	0.69
1:r:294:ASP:HB2	1:r:353:GLN:O	1.93	0.69
1:u:211:ASP:HB3	1:u:249:LEU:HD13	1.72	0.69
1:y:232:VAL:HG12	1:y:234:PRO:HD2	1.74	0.69
1:y:294:ASP:HB2	1:y:353:GLN:O	1.93	0.69
1:9:294:ASP:CG	1:9:355:VAL:HG22	2.16	0.69
1:A:294:ASP:HB2	1:A:353:GLN:O	1.93	0.69
1:A:298:TYR:CD2	1:A:299:GLU:HG3	2.25	0.69
1:D:298:TYR:CD2	1:D:299:GLU:HG3	2.25	0.69
1:F:298:TYR:CD2	1:F:299:GLU:HG3	2.25	0.69
1:G:211:ASP:HB3	1:G:249:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:294:ASP:HB2	1:G:353:GLN:O	1.93	0.69
1:H:294:ASP:HB2	1:H:353:GLN:O	1.93	0.69
1:I:298:TYR:CD2	1:I:299:GLU:HG3	2.25	0.69
1:K:232:VAL:HG12	1:K:234:PRO:HD2	1.74	0.69
1:L:211:ASP:HB3	1:L:249:LEU:HD11	1.74	0.69
1:N:211:ASP:HB3	1:N:249:LEU:HD11	1.74	0.69
1:N:232:VAL:HG12	1:N:234:PRO:HD2	1.74	0.69
1:P:211:ASP:O	1:P:249:LEU:HD12	1.93	0.69
1:S:211:ASP:HB3	1:S:249:LEU:HD11	1.74	0.69
1:S:211:ASP:O	1:S:249:LEU:HD12	1.92	0.69
1:V:211:ASP:HB3	1:V:249:LEU:HD11	1.74	0.69
1:V:232:VAL:HG12	1:V:234:PRO:HD2	1.74	0.69
1:Y:211:ASP:HB3	1:Y:249:LEU:HD11	1.74	0.69
1:Y:298:TYR:CD2	1:Y:299:GLU:HG3	2.25	0.69
1:c:211:ASP:HB3	1:c:249:LEU:HD11	1.74	0.69
1:d:211:ASP:O	1:d:249:LEU:HD12	1.93	0.69
1:e:211:ASP:O	1:e:249:LEU:HD12	1.93	0.69
1:i:211:ASP:HB3	1:i:249:LEU:HD13	1.72	0.69
1:j:294:ASP:HB2	1:j:353:GLN:O	1.93	0.69
1:k:294:ASP:CG	1:k:355:VAL:HG22	2.16	0.69
1:l:294:ASP:HB2	1:l:353:GLN:O	1.93	0.69
1:m:294:ASP:HB2	1:m:353:GLN:O	1.93	0.69
1:n:294:ASP:CG	1:n:355:VAL:HG22	2.16	0.69
1:t:294:ASP:HB2	1:t:353:GLN:O	1.93	0.69
1:u:211:ASP:O	1:u:249:LEU:HD12	1.93	0.69
1:w:211:ASP:HB3	1:w:249:LEU:HD11	1.74	0.69
1:w:294:ASP:HB2	1:w:353:GLN:O	1.93	0.69
1:M:211:ASP:O	1:M:249:LEU:HD12	1.93	0.69
1:W:232:VAL:HG12	1:W:234:PRO:HD2	1.74	0.69
1:Y:232:VAL:HG12	1:Y:234:PRO:HD2	1.74	0.69
1:e:294:ASP:HB2	1:e:353:GLN:O	1.93	0.69
1:f:294:ASP:HB2	1:f:353:GLN:O	1.93	0.69
1:i:294:ASP:HB2	1:i:353:GLN:O	1.93	0.69
1:x:294:ASP:HB2	1:x:353:GLN:O	1.93	0.69
1:z:211:ASP:HB3	1:z:249:LEU:HD11	1.74	0.69
1:5:294:ASP:HB2	1:5:353:GLN:O	1.93	0.69
1:B:211:ASP:O	1:B:249:LEU:HD12	1.93	0.69
1:M:294:ASP:HB2	1:M:353:GLN:O	1.93	0.69
1:O:232:VAL:HG12	1:O:234:PRO:HD2	1.74	0.69
1:R:294:ASP:HB2	1:R:353:GLN:O	1.93	0.69
1:V:294:ASP:HB2	1:V:353:GLN:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:211:ASP:O	1:a:249:LEU:HD12	1.93	0.69
1:a:232:VAL:HG12	1:a:234:PRO:HD2	1.74	0.69
1:q:211:ASP:O	1:q:249:LEU:HD12	1.92	0.69
1:s:211:ASP:HB3	1:s:249:LEU:HD11	1.74	0.69
1:x:232:VAL:HG12	1:x:234:PRO:HD2	1.74	0.69
1:z:211:ASP:HB3	1:z:249:LEU:HD13	1.72	0.69
1:1:211:ASP:HB3	1:1:249:LEU:HD13	1.72	0.68
1:3:232:VAL:HG12	1:3:234:PRO:HD2	1.74	0.68
1:D:294:ASP:HB2	1:D:353:GLN:O	1.93	0.68
1:E:294:ASP:HB2	1:E:353:GLN:O	1.93	0.68
1:R:298:TYR:CD2	1:R:299:GLU:HG3	2.25	0.68
1:S:232:VAL:HG12	1:S:234:PRO:HD2	1.74	0.68
1:W:298:TYR:CD2	1:W:299:GLU:HG3	2.25	0.68
1:Z:211:ASP:HB3	1:Z:249:LEU:HD11	1.74	0.68
1:k:294:ASP:HB2	1:k:353:GLN:O	1.93	0.68
1:m:211:ASP:HB3	1:m:249:LEU:HD11	1.74	0.68
1:n:294:ASP:HB2	1:n:353:GLN:O	1.93	0.68
1:r:298:TYR:CD2	1:r:299:GLU:HG3	2.25	0.68
1:2:211:ASP:HB3	1:2:249:LEU:HD11	1.74	0.68
1:C:211:ASP:O	1:C:249:LEU:HD12	1.93	0.68
1:K:294:ASP:HB2	1:K:353:GLN:O	1.93	0.68
1:N:211:ASP:O	1:N:249:LEU:HD12	1.93	0.68
1:R:211:ASP:HB3	1:R:249:LEU:HD11	1.74	0.68
1:S:294:ASP:HB2	1:S:353:GLN:O	1.93	0.68
1:T:294:ASP:HB2	1:T:353:GLN:O	1.93	0.68
1:Z:211:ASP:HB3	1:Z:249:LEU:HD13	1.72	0.68
1:b:211:ASP:O	1:b:249:LEU:HD12	1.93	0.68
1:l:211:ASP:O	1:l:249:LEU:HD12	1.93	0.68
1:v:211:ASP:O	1:v:249:LEU:HD12	1.93	0.68
1:y:211:ASP:O	1:y:249:LEU:HD12	1.93	0.68
1:4:211:ASP:HB3	1:4:249:LEU:HD11	1.74	0.68
1:6:211:ASP:O	1:6:249:LEU:HD12	1.93	0.68
1:B:211:ASP:HB3	1:B:249:LEU:HD11	1.74	0.68
1:E:211:ASP:O	1:E:249:LEU:HD12	1.93	0.68
1:K:211:ASP:HB3	1:K:249:LEU:HD11	1.74	0.68
1:O:294:ASP:HB2	1:O:353:GLN:O	1.93	0.68
1:a:294:ASP:HB2	1:a:353:GLN:O	1.93	0.68
1:F:232:VAL:HG12	1:F:234:PRO:HD2	1.74	0.68
1:F:294:ASP:HB2	1:F:353:GLN:O	1.93	0.68
1:d:211:ASP:HB3	1:d:249:LEU:HD11	1.74	0.68
1:h:232:VAL:HG12	1:h:234:PRO:HD2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:298:TYR:CD2	1:u:299:GLU:HG3	2.25	0.68
1:v:294:ASP:HB2	1:v:353:GLN:O	1.93	0.68
1:1:294:ASP:HB2	1:1:353:GLN:O	1.93	0.68
1:2:232:VAL:HG12	1:2:234:PRO:HD2	1.74	0.68
1:6:211:ASP:HB3	1:6:249:LEU:HD11	1.74	0.68
1:H:232:VAL:HG12	1:H:234:PRO:HD2	1.74	0.68
1:J:211:ASP:O	1:J:249:LEU:HD12	1.93	0.68
1:M:232:VAL:HG12	1:M:234:PRO:HD2	1.74	0.68
1:Q:211:ASP:HB3	1:Q:249:LEU:HD11	1.74	0.68
1:Z:294:ASP:HB2	1:Z:353:GLN:O	1.93	0.68
1:e:211:ASP:HB3	1:e:249:LEU:HD11	1.74	0.68
1:q:294:ASP:HB2	1:q:353:GLN:O	1.93	0.68
1:s:294:ASP:HB2	1:s:353:GLN:O	1.93	0.68
1:u:294:ASP:HB2	1:u:353:GLN:O	1.93	0.68
1:x:211:ASP:O	1:x:249:LEU:HD12	1.93	0.68
1:z:232:VAL:HG12	1:z:234:PRO:HD2	1.74	0.68
1:3:211:ASP:O	1:3:249:LEU:HD12	1.93	0.68
1:B:294:ASP:HB2	1:B:353:GLN:O	1.93	0.68
1:C:294:ASP:HB2	1:C:353:GLN:O	1.93	0.68
1:J:298:TYR:CD2	1:J:299:GLU:HG3	2.25	0.68
1:X:211:ASP:O	1:X:249:LEU:HD12	1.93	0.68
1:g:232:VAL:HG12	1:g:234:PRO:HD2	1.74	0.68
1:k:211:ASP:HB3	1:k:249:LEU:HD11	1.74	0.68
1:r:211:ASP:O	1:r:249:LEU:HD12	1.93	0.68
1:1:232:VAL:HG12	1:1:234:PRO:HD2	1.74	0.68
1:8:232:VAL:HG12	1:8:234:PRO:HD2	1.74	0.68
1:I:232:VAL:HG12	1:I:234:PRO:HD2	1.74	0.68
1:N:294:ASP:HB2	1:N:353:GLN:O	1.93	0.68
1:X:294:ASP:HB2	1:X:353:GLN:O	1.93	0.68
1:g:211:ASP:HB3	1:g:249:LEU:HD11	1.74	0.68
1:q:232:VAL:HG12	1:q:234:PRO:HD2	1.74	0.68
1:v:232:VAL:HG12	1:v:234:PRO:HD2	1.74	0.68
1:F:211:ASP:O	1:F:249:LEU:HD12	1.93	0.68
1:H:211:ASP:O	1:H:249:LEU:HD12	1.93	0.68
1:Y:211:ASP:O	1:Y:249:LEU:HD12	1.93	0.68
1:c:232:VAL:HG12	1:c:234:PRO:HD2	1.74	0.68
1:d:298:TYR:CD2	1:d:299:GLU:HG3	2.25	0.68
1:n:232:VAL:HG12	1:n:234:PRO:HD2	1.74	0.68
1:p:211:ASP:HB3	1:p:249:LEU:HD11	1.74	0.68
1:1:211:ASP:HB3	1:1:249:LEU:HD11	1.74	0.68
1:4:294:ASP:HB2	1:4:353:GLN:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:VAL:HG12	1:B:234:PRO:HD2	1.74	0.68
1:L:211:ASP:O	1:L:249:LEU:HD12	1.93	0.68
1:W:294:ASP:HB2	1:W:353:GLN:O	1.93	0.68
1:Z:232:VAL:HG12	1:Z:234:PRO:HD2	1.74	0.68
1:g:211:ASP:O	1:g:249:LEU:HD12	1.93	0.68
1:h:211:ASP:HB3	1:h:249:LEU:HD11	1.74	0.68
1:m:211:ASP:O	1:m:249:LEU:HD12	1.93	0.68
1:n:145:VAL:CG1	1:n:201:VAL:HG12	2.24	0.68
1:p:145:VAL:CG1	1:p:201:VAL:HG12	2.24	0.68
1:w:211:ASP:O	1:w:249:LEU:HD12	1.93	0.68
1:z:145:VAL:CG1	1:z:201:VAL:HG12	2.24	0.68
1:2:294:ASP:HB2	1:2:353:GLN:O	1.93	0.68
1:F:211:ASP:HB3	1:F:249:LEU:HD11	1.74	0.68
1:I:211:ASP:HB3	1:I:249:LEU:HD11	1.74	0.68
1:O:145:VAL:CG1	1:O:201:VAL:HG12	2.24	0.68
1:Q:294:ASP:HB2	1:Q:353:GLN:O	1.93	0.68
1:d:294:ASP:HB2	1:d:353:GLN:O	1.93	0.68
1:h:294:ASP:HB2	1:h:353:GLN:O	1.93	0.68
1:l:145:VAL:CG1	1:l:201:VAL:HG12	2.24	0.68
1:l:211:ASP:HB3	1:l:249:LEU:HD11	1.74	0.68
1:4:145:VAL:CG1	1:4:201:VAL:HG12	2.24	0.67
1:6:145:VAL:CG1	1:6:201:VAL:HG12	2.24	0.67
1:B:298:TYR:CD2	1:B:299:GLU:HG3	2.25	0.67
1:G:145:VAL:CG1	1:G:201:VAL:HG12	2.24	0.67
1:K:211:ASP:O	1:K:249:LEU:HD12	1.93	0.67
1:M:145:VAL:CG1	1:M:201:VAL:HG12	2.24	0.67
1:Q:145:VAL:CG1	1:Q:201:VAL:HG12	2.24	0.67
1:R:211:ASP:O	1:R:249:LEU:HD12	1.93	0.67
1:Y:145:VAL:CG1	1:Y:201:VAL:HG12	2.24	0.67
1:k:145:VAL:CG1	1:k:201:VAL:HG12	2.24	0.67
1:w:145:VAL:CG1	1:w:201:VAL:HG12	2.24	0.67
1:x:298:TYR:CD2	1:x:299:GLU:HG3	2.25	0.67
1:y:145:VAL:CG1	1:y:201:VAL:HG12	2.24	0.67
1:6:232:VAL:HG12	1:6:234:PRO:HD2	1.74	0.67
1:7:294:ASP:HB2	1:7:353:GLN:O	1.93	0.67
1:8:145:VAL:CG1	1:8:201:VAL:HG12	2.24	0.67
1:8:211:ASP:O	1:8:249:LEU:HD12	1.93	0.67
1:E:145:VAL:CG1	1:E:201:VAL:HG12	2.24	0.67
1:K:298:TYR:CD2	1:K:299:GLU:HG3	2.25	0.67
1:O:211:ASP:O	1:O:249:LEU:HD12	1.93	0.67
1:X:145:VAL:CG1	1:X:201:VAL:HG12	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:145:VAL:CG1	1:j:201:VAL:HG12	2.24	0.67
1:o:294:ASP:HB2	1:o:353:GLN:O	1.93	0.67
1:p:211:ASP:O	1:p:249:LEU:HD12	1.93	0.67
1:2:145:VAL:CG1	1:2:201:VAL:HG12	2.24	0.67
1:2:211:ASP:O	1:2:249:LEU:HD12	1.93	0.67
1:4:298:TYR:CD2	1:4:299:GLU:HG3	2.25	0.67
1:G:211:ASP:O	1:G:249:LEU:HD12	1.93	0.67
1:V:211:ASP:O	1:V:249:LEU:HD12	1.93	0.67
1:W:211:ASP:HB3	1:W:249:LEU:HD11	1.74	0.67
1:c:294:ASP:HB2	1:c:353:GLN:O	1.93	0.67
1:f:211:ASP:HB3	1:f:249:LEU:HD11	1.74	0.67
1:m:145:VAL:CG1	1:m:201:VAL:HG12	2.24	0.67
1:3:145:VAL:CG1	1:3:201:VAL:HG12	2.24	0.67
1:9:145:VAL:CG1	1:9:201:VAL:HG12	2.24	0.67
1:D:211:ASP:O	1:D:249:LEU:HD12	1.92	0.67
1:D:211:ASP:HB3	1:D:249:LEU:HD11	1.74	0.67
1:J:145:VAL:CG1	1:J:201:VAL:HG12	2.24	0.67
1:P:145:VAL:CG1	1:P:201:VAL:HG12	2.24	0.67
1:V:145:VAL:CG1	1:V:201:VAL:HG12	2.24	0.67
1:g:294:ASP:HB2	1:g:353:GLN:O	1.93	0.67
1:v:145:VAL:CG1	1:v:201:VAL:HG12	2.24	0.67
1:4:211:ASP:O	1:4:249:LEU:HD12	1.93	0.67
1:C:111:GLU:O	1:C:542:THR:CG2	2.43	0.67
1:P:211:ASP:HB3	1:P:249:LEU:HD11	1.74	0.67
1:b:111:GLU:O	1:b:542:THR:CG2	2.43	0.67
1:b:294:ASP:HB2	1:b:353:GLN:O	1.93	0.67
1:c:145:VAL:CG1	1:c:201:VAL:HG12	2.24	0.67
1:g:145:VAL:CG1	1:g:201:VAL:HG12	2.24	0.67
1:h:298:TYR:CD2	1:h:299:GLU:HG3	2.25	0.67
1:j:111:GLU:O	1:j:542:THR:CG2	2.43	0.67
1:m:111:GLU:O	1:m:542:THR:CG2	2.43	0.67
1:z:211:ASP:O	1:z:249:LEU:HD12	1.93	0.67
1:7:145:VAL:CG1	1:7:201:VAL:HG12	2.24	0.67
1:9:111:GLU:O	1:9:542:THR:CG2	2.43	0.67
1:F:111:GLU:O	1:F:542:THR:CG2	2.43	0.67
1:H:111:GLU:O	1:H:542:THR:CG2	2.43	0.67
1:I:294:ASP:HB2	1:I:353:GLN:O	1.93	0.67
1:T:111:GLU:O	1:T:542:THR:CG2	2.43	0.67
1:T:145:VAL:CG1	1:T:201:VAL:HG12	2.24	0.67
1:W:145:VAL:CG1	1:W:201:VAL:HG12	2.24	0.67
1:e:145:VAL:CG1	1:e:201:VAL:HG12	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:145:VAL:CG1	1:s:201:VAL:HG12	2.24	0.67
1:u:145:VAL:CG1	1:u:201:VAL:HG12	2.24	0.67
1:x:145:VAL:CG1	1:x:201:VAL:HG12	2.24	0.67
1:5:111:GLU:O	1:5:542:THR:CG2	2.43	0.67
1:5:145:VAL:CG1	1:5:201:VAL:HG12	2.24	0.67
1:D:111:GLU:O	1:D:542:THR:CG2	2.43	0.67
1:R:145:VAL:CG1	1:R:201:VAL:HG12	2.24	0.67
1:S:145:VAL:CG1	1:S:201:VAL:HG12	2.24	0.67
1:X:111:GLU:O	1:X:542:THR:CG2	2.43	0.67
1:d:145:VAL:CG1	1:d:201:VAL:HG12	2.24	0.67
1:f:145:VAL:CG1	1:f:201:VAL:HG12	2.24	0.67
1:I:145:VAL:CG1	1:I:201:VAL:HG12	2.24	0.67
1:d:111:GLU:O	1:d:542:THR:CG2	2.43	0.67
1:i:145:VAL:CG1	1:i:201:VAL:HG12	2.24	0.67
1:o:111:GLU:O	1:o:542:THR:CG2	2.43	0.67
1:q:145:VAL:CG1	1:q:201:VAL:HG12	2.24	0.67
1:6:294:ASP:HB2	1:6:353:GLN:O	1.93	0.67
1:A:145:VAL:CG1	1:A:201:VAL:HG12	2.24	0.67
1:A:211:ASP:O	1:A:249:LEU:HD12	1.92	0.67
1:D:145:VAL:CG1	1:D:201:VAL:HG12	2.24	0.67
1:R:111:GLU:O	1:R:542:THR:CG2	2.43	0.67
1:h:145:VAL:CG1	1:h:201:VAL:HG12	2.24	0.67
1:y:111:GLU:O	1:y:542:THR:CG2	2.43	0.67
1:4:111:GLU:O	1:4:542:THR:CG2	2.43	0.67
1:C:298:TYR:CD2	1:C:299:GLU:HG3	2.25	0.67
1:E:111:GLU:O	1:E:542:THR:CG2	2.43	0.67
1:H:145:VAL:CG1	1:H:201:VAL:HG12	2.24	0.67
1:I:111:GLU:O	1:I:542:THR:CG2	2.43	0.67
1:a:145:VAL:CG1	1:a:201:VAL:HG12	2.24	0.67
1:x:111:GLU:O	1:x:542:THR:CG2	2.43	0.67
1:z:294:ASP:HB2	1:z:353:GLN:O	1.93	0.67
1:C:145:VAL:CG1	1:C:201:VAL:HG12	2.24	0.66
1:G:111:GLU:O	1:G:542:THR:CG2	2.43	0.66
1:J:111:GLU:O	1:J:542:THR:CG2	2.43	0.66
1:K:145:VAL:CG1	1:K:201:VAL:HG12	2.24	0.66
1:P:111:GLU:O	1:P:542:THR:CG2	2.43	0.66
1:i:111:GLU:O	1:i:542:THR:CG2	2.43	0.66
1:k:111:GLU:O	1:k:542:THR:CG2	2.43	0.66
1:t:298:TYR:CD2	1:t:299:GLU:HG3	2.25	0.66
1:L:145:VAL:CG1	1:L:201:VAL:HG12	2.24	0.66
1:b:145:VAL:CG1	1:b:201:VAL:HG12	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:211:ASP:O	1:c:249:LEU:HD12	1.93	0.66
1:r:145:VAL:CG1	1:r:201:VAL:HG12	2.24	0.66
1:1:111:GLU:O	1:1:542:THR:CG2	2.43	0.66
1:3:111:GLU:O	1:3:542:THR:CG2	2.43	0.66
1:L:111:GLU:O	1:L:542:THR:CG2	2.43	0.66
1:Q:111:GLU:O	1:Q:542:THR:CG2	2.43	0.66
1:Z:111:GLU:O	1:Z:542:THR:CG2	2.43	0.66
1:q:111:GLU:O	1:q:542:THR:CG2	2.43	0.66
1:u:111:GLU:O	1:u:542:THR:CG2	2.43	0.66
1:2:111:GLU:O	1:2:542:THR:CG2	2.43	0.66
1:N:111:GLU:O	1:N:542:THR:CG2	2.43	0.66
1:N:145:VAL:CG1	1:N:201:VAL:HG12	2.24	0.66
1:Z:211:ASP:O	1:Z:249:LEU:HD12	1.93	0.66
1:M:298:TYR:CD2	1:M:299:GLU:HG3	2.25	0.66
1:l:111:GLU:O	1:l:542:THR:CG2	2.43	0.66
1:2:298:TYR:CD2	1:2:299:GLU:HG3	2.25	0.66
1:F:145:VAL:CG1	1:F:201:VAL:HG12	2.24	0.66
1:a:111:GLU:O	1:a:542:THR:CG2	2.43	0.66
1:1:145:VAL:CG1	1:1:201:VAL:HG12	2.24	0.66
1:A:111:GLU:O	1:A:542:THR:CG2	2.43	0.66
1:B:145:VAL:CG1	1:B:201:VAL:HG12	2.24	0.66
1:Y:111:GLU:O	1:Y:542:THR:CG2	2.43	0.66
1:r:111:GLU:O	1:r:542:THR:CG2	2.43	0.66
1:t:145:VAL:CG1	1:t:201:VAL:HG12	2.24	0.66
1:8:111:GLU:O	1:8:542:THR:CG2	2.43	0.66
1:B:111:GLU:O	1:B:542:THR:CG2	2.43	0.66
1:n:298:TYR:CD2	1:n:299:GLU:HG3	2.25	0.66
1:t:111:GLU:O	1:t:542:THR:CG2	2.43	0.66
1:v:298:TYR:CD2	1:v:299:GLU:HG3	2.25	0.66
1:c:111:GLU:O	1:c:542:THR:CG2	2.43	0.66
1:o:145:VAL:CG1	1:o:201:VAL:HG12	2.24	0.66
1:G:352:ILE:HG13	1:G:353:GLN:N	2.11	0.66
1:h:111:GLU:O	1:h:542:THR:CG2	2.43	0.66
1:D:370:LYS:HG3	1:D:371:ILE:H	1.62	0.65
1:Z:145:VAL:CG1	1:Z:201:VAL:HG12	2.24	0.65
1:s:111:GLU:O	1:s:542:THR:CG2	2.43	0.65
1:w:111:GLU:O	1:w:542:THR:CG2	2.43	0.65
1:x:352:ILE:HG13	1:x:353:GLN:N	2.11	0.65
1:Q:370:LYS:HG3	1:Q:371:ILE:H	1.62	0.65
1:W:111:GLU:O	1:W:542:THR:CG2	2.43	0.65
1:e:111:GLU:O	1:e:542:THR:CG2	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:352:ILE:HG13	1:j:353:GLN:N	2.12	0.65
1:p:370:LYS:HG3	1:p:371:ILE:H	1.62	0.65
1:3:370:LYS:HG3	1:3:371:ILE:H	1.62	0.65
1:7:226:ASP:HB3	1:7:233:MET:HE3	1.79	0.65
1:l:370:LYS:HG3	1:l:371:ILE:H	1.62	0.65
1:K:352:ILE:HG13	1:K:353:GLN:N	2.12	0.65
1:b:226:ASP:HB3	1:b:233:MET:HE3	1.79	0.65
1:g:352:ILE:HG13	1:g:353:GLN:N	2.12	0.65
1:h:352:ILE:HG13	1:h:353:GLN:N	2.12	0.65
1:l:370:LYS:HG3	1:l:371:ILE:H	1.62	0.65
1:w:352:ILE:HG13	1:w:353:GLN:N	2.11	0.65
1:1:370:LYS:HG3	1:1:371:ILE:H	1.62	0.65
1:J:370:LYS:HG3	1:J:371:ILE:H	1.62	0.65
1:M:352:ILE:HG13	1:M:353:GLN:N	2.12	0.65
1:N:370:LYS:HG3	1:N:371:ILE:H	1.62	0.65
1:O:111:GLU:O	1:O:542:THR:CG2	2.43	0.65
1:O:352:ILE:HG13	1:O:353:GLN:N	2.11	0.65
1:P:352:ILE:HG13	1:P:353:GLN:N	2.12	0.65
1:T:370:LYS:HG3	1:T:371:ILE:H	1.62	0.65
1:g:370:LYS:HG3	1:g:371:ILE:H	1.62	0.65
1:a:226:ASP:HB3	1:a:233:MET:HE3	1.79	0.65
1:e:370:LYS:HG3	1:e:371:ILE:H	1.62	0.65
1:n:352:ILE:HG13	1:n:353:GLN:N	2.12	0.65
1:C:226:ASP:HB3	1:C:233:MET:HE3	1.79	0.65
1:l:226:ASP:HB3	1:l:233:MET:HE3	1.79	0.65
1:J:226:ASP:HB3	1:J:233:MET:HE3	1.79	0.65
1:T:226:ASP:HB3	1:T:233:MET:HE3	1.79	0.65
1:X:352:ILE:HG13	1:X:353:GLN:N	2.12	0.65
1:Y:226:ASP:HB3	1:Y:233:MET:HE3	1.79	0.65
1:Y:370:LYS:HG3	1:Y:371:ILE:H	1.62	0.65
1:e:352:ILE:HG13	1:e:353:GLN:N	2.11	0.65
1:l:226:ASP:HB3	1:l:233:MET:HE3	1.79	0.65
1:n:111:GLU:O	1:n:542:THR:CG2	2.43	0.65
1:2:370:LYS:HG3	1:2:371:ILE:H	1.62	0.65
1:6:352:ILE:HG13	1:6:353:GLN:N	2.11	0.65
1:7:111:GLU:O	1:7:542:THR:CG2	2.43	0.65
1:8:370:LYS:HG3	1:8:371:ILE:H	1.62	0.65
1:H:226:ASP:HB3	1:H:233:MET:HE3	1.79	0.65
1:L:352:ILE:HG13	1:L:353:GLN:N	2.11	0.65
1:M:370:LYS:HG3	1:M:371:ILE:H	1.62	0.65
1:S:352:ILE:HG13	1:S:353:GLN:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:352:ILE:HG13	1:T:353:GLN:N	2.11	0.65
1:g:111:GLU:O	1:g:542:THR:CG2	2.43	0.65
1:k:226:ASP:HB3	1:k:233:MET:HE3	1.79	0.65
1:m:352:ILE:HG13	1:m:353:GLN:N	2.12	0.65
1:r:226:ASP:HB3	1:r:233:MET:HE3	1.79	0.65
1:t:370:LYS:HG3	1:t:371:ILE:H	1.62	0.65
1:w:370:LYS:HG3	1:w:371:ILE:H	1.62	0.65
1:6:111:GLU:O	1:6:542:THR:CG2	2.43	0.65
1:9:352:ILE:HG13	1:9:353:GLN:N	2.11	0.65
1:D:352:ILE:HG13	1:D:353:GLN:N	2.12	0.65
1:G:226:ASP:HB3	1:G:233:MET:HE3	1.79	0.65
1:M:111:GLU:O	1:M:542:THR:CG2	2.43	0.65
1:M:226:ASP:HB3	1:M:233:MET:HE3	1.79	0.65
1:O:226:ASP:HB3	1:O:233:MET:HE3	1.79	0.65
1:c:370:LYS:HG3	1:c:371:ILE:H	1.62	0.65
1:d:226:ASP:HB3	1:d:233:MET:HE3	1.79	0.65
1:j:370:LYS:HG3	1:j:371:ILE:H	1.62	0.65
1:o:370:LYS:HG3	1:o:371:ILE:H	1.62	0.65
1:q:370:LYS:HG3	1:q:371:ILE:H	1.62	0.65
1:u:352:ILE:HG13	1:u:353:GLN:N	2.12	0.65
1:C:352:ILE:HG13	1:C:353:GLN:N	2.12	0.65
1:i:352:ILE:HG13	1:i:353:GLN:N	2.12	0.65
1:i:370:LYS:HG3	1:i:371:ILE:H	1.62	0.65
1:o:226:ASP:HB3	1:o:233:MET:HE3	1.79	0.65
1:s:370:LYS:HG3	1:s:371:ILE:H	1.62	0.65
1:v:111:GLU:O	1:v:542:THR:CG2	2.43	0.65
1:w:226:ASP:HB3	1:w:233:MET:HE3	1.79	0.65
1:x:370:LYS:HG3	1:x:371:ILE:H	1.62	0.65
1:3:226:ASP:HB3	1:3:233:MET:HE3	1.79	0.65
1:4:370:LYS:HG3	1:4:371:ILE:H	1.62	0.65
1:9:226:ASP:HB3	1:9:233:MET:HE3	1.79	0.65
1:H:352:ILE:HG13	1:H:353:GLN:N	2.11	0.65
1:Q:352:ILE:HG13	1:Q:353:GLN:N	2.11	0.65
1:S:370:LYS:HG3	1:S:371:ILE:H	1.62	0.65
1:X:226:ASP:HB3	1:X:233:MET:HE3	1.79	0.65
1:c:352:ILE:HG13	1:c:353:GLN:N	2.11	0.65
1:k:352:ILE:HG13	1:k:353:GLN:N	2.11	0.65
1:s:352:ILE:HG13	1:s:353:GLN:N	2.11	0.65
1:u:226:ASP:HB3	1:u:233:MET:HE3	1.79	0.65
1:5:352:ILE:HG13	1:5:353:GLN:N	2.11	0.64
1:B:370:LYS:HG3	1:B:371:ILE:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:370:LYS:HG3	1:C:371:ILE:H	1.62	0.64
1:E:352:ILE:HG13	1:E:353:GLN:N	2.11	0.64
1:E:370:LYS:HG3	1:E:371:ILE:H	1.62	0.64
1:L:370:LYS:HG3	1:L:371:ILE:H	1.62	0.64
1:O:370:LYS:HG3	1:O:371:ILE:H	1.62	0.64
1:R:370:LYS:HG3	1:R:371:ILE:H	1.62	0.64
1:Z:352:ILE:HG13	1:Z:353:GLN:N	2.11	0.64
1:f:370:LYS:HG3	1:f:371:ILE:H	1.62	0.64
1:m:370:LYS:HG3	1:m:371:ILE:H	1.62	0.64
1:x:226:ASP:HB3	1:x:233:MET:HE3	1.79	0.64
1:y:370:LYS:HG3	1:y:371:ILE:H	1.62	0.64
1:z:226:ASP:HB3	1:z:233:MET:HE3	1.79	0.64
1:K:111:GLU:O	1:K:542:THR:CG2	2.43	0.64
1:d:352:ILE:HG13	1:d:353:GLN:N	2.12	0.64
1:f:111:GLU:O	1:f:542:THR:CG2	2.43	0.64
1:l:352:ILE:HG13	1:l:353:GLN:N	2.12	0.64
1:v:226:ASP:HB3	1:v:233:MET:HE3	1.79	0.64
1:2:226:ASP:HB3	1:2:233:MET:HE3	1.79	0.64
1:8:226:ASP:HB3	1:8:233:MET:HE3	1.79	0.64
1:S:111:GLU:O	1:S:542:THR:CG2	2.43	0.64
1:V:111:GLU:O	1:V:542:THR:CG2	2.43	0.64
1:V:370:LYS:HG3	1:V:371:ILE:H	1.62	0.64
1:W:226:ASP:HB3	1:W:233:MET:HE3	1.79	0.64
1:W:352:ILE:HG13	1:W:353:GLN:N	2.11	0.64
1:p:226:ASP:HB3	1:p:233:MET:HE3	1.79	0.64
1:v:352:ILE:HG13	1:v:353:GLN:N	2.11	0.64
1:z:352:ILE:HG13	1:z:353:GLN:N	2.11	0.64
1:z:370:LYS:HG3	1:z:371:ILE:H	1.62	0.64
1:1:226:ASP:HB3	1:1:233:MET:HE3	1.79	0.64
1:3:352:ILE:HG13	1:3:353:GLN:N	2.11	0.64
1:A:370:LYS:HG3	1:A:371:ILE:H	1.62	0.64
1:N:226:ASP:HB3	1:N:233:MET:HE3	1.79	0.64
1:S:226:ASP:HB3	1:S:233:MET:HE3	1.79	0.64
1:V:352:ILE:HG13	1:V:353:GLN:N	2.11	0.64
1:X:370:LYS:HG3	1:X:371:ILE:H	1.62	0.64
1:Z:370:LYS:HG3	1:Z:371:ILE:H	1.62	0.64
1:a:370:LYS:HG3	1:a:371:ILE:H	1.62	0.64
1:n:226:ASP:HB3	1:n:233:MET:HE3	1.79	0.64
1:p:111:GLU:O	1:p:542:THR:CG2	2.43	0.64
1:y:352:ILE:HG13	1:y:353:GLN:N	2.12	0.64
1:K:370:LYS:HG3	1:K:371:ILE:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:352:ILE:HG13	1:f:353:GLN:N	2.12	0.64
1:t:352:ILE:HG13	1:t:353:GLN:N	2.11	0.64
1:z:111:GLU:O	1:z:542:THR:CG2	2.43	0.64
1:6:226:ASP:HB3	1:6:233:MET:HE3	1.79	0.64
1:7:352:ILE:HG13	1:7:353:GLN:N	2.12	0.64
1:9:370:LYS:HG3	1:9:371:ILE:H	1.62	0.64
1:F:226:ASP:HB3	1:F:233:MET:HE3	1.79	0.64
1:J:294:ASP:HA	1:J:355:VAL:CG2	2.28	0.64
1:Q:226:ASP:HB3	1:Q:233:MET:HE3	1.79	0.64
1:R:352:ILE:HG13	1:R:353:GLN:N	2.11	0.64
1:e:226:ASP:HB3	1:e:233:MET:HE3	1.79	0.64
1:4:352:ILE:HG13	1:4:353:GLN:N	2.11	0.64
1:8:352:ILE:HG13	1:8:353:GLN:N	2.11	0.64
1:A:226:ASP:HB3	1:A:233:MET:HE3	1.79	0.64
1:S:294:ASP:HA	1:S:355:VAL:CG2	2.28	0.64
1:h:294:ASP:HA	1:h:355:VAL:CG2	2.28	0.64
1:i:226:ASP:HB3	1:i:233:MET:HE3	1.79	0.64
1:r:352:ILE:HG13	1:r:353:GLN:N	2.12	0.64
1:t:226:ASP:HB3	1:t:233:MET:HE3	1.79	0.64
1:v:294:ASP:HA	1:v:355:VAL:CG2	2.28	0.64
1:2:352:ILE:HG13	1:2:353:GLN:N	2.11	0.64
1:F:352:ILE:HG13	1:F:353:GLN:N	2.11	0.64
1:W:294:ASP:HA	1:W:355:VAL:CG2	2.28	0.64
1:Y:294:ASP:HA	1:Y:355:VAL:CG2	2.28	0.64
1:Z:294:ASP:HA	1:Z:355:VAL:CG2	2.28	0.64
1:b:294:ASP:HA	1:b:355:VAL:CG2	2.28	0.64
1:d:370:LYS:HG3	1:d:371:ILE:H	1.61	0.64
1:f:226:ASP:HB3	1:f:233:MET:HE3	1.79	0.64
1:i:294:ASP:HA	1:i:355:VAL:CG2	2.28	0.64
1:q:352:ILE:HG13	1:q:353:GLN:N	2.11	0.64
1:u:370:LYS:HG3	1:u:371:ILE:H	1.62	0.64
1:5:294:ASP:HA	1:5:355:VAL:CG2	2.28	0.64
1:8:294:ASP:HA	1:8:355:VAL:CG2	2.28	0.64
1:D:294:ASP:HA	1:D:355:VAL:CG2	2.28	0.64
1:F:294:ASP:HA	1:F:355:VAL:CG2	2.28	0.64
1:G:370:LYS:HG3	1:G:371:ILE:H	1.62	0.64
1:P:294:ASP:HA	1:P:355:VAL:CG2	2.28	0.64
1:Y:352:ILE:HG13	1:Y:353:GLN:N	2.11	0.64
1:b:370:LYS:HG3	1:b:371:ILE:H	1.62	0.64
1:j:226:ASP:HB3	1:j:233:MET:HE3	1.79	0.64
1:y:226:ASP:HB3	1:y:233:MET:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:294:ASP:HA	1:y:355:VAL:CG2	2.28	0.64
1:l:294:ASP:HA	1:l:355:VAL:CG2	2.28	0.64
1:I:352:ILE:HG13	1:I:353:GLN:N	2.12	0.64
1:L:294:ASP:HA	1:L:355:VAL:CG2	2.28	0.64
1:M:294:ASP:HA	1:M:355:VAL:CG2	2.28	0.64
1:r:370:LYS:HG3	1:r:371:ILE:H	1.62	0.64
1:1:352:ILE:HG13	1:1:353:GLN:N	2.11	0.63
1:5:370:LYS:HG3	1:5:371:ILE:H	1.62	0.63
1:6:370:LYS:HG3	1:6:371:ILE:H	1.62	0.63
1:E:226:ASP:HB3	1:E:233:MET:HE3	1.79	0.63
1:H:370:LYS:HG3	1:H:371:ILE:H	1.62	0.63
1:I:294:ASP:HA	1:I:355:VAL:CG2	2.28	0.63
1:R:226:ASP:HB3	1:R:233:MET:HE3	1.79	0.63
1:e:294:ASP:HA	1:e:355:VAL:CG2	2.28	0.63
1:h:226:ASP:HB3	1:h:233:MET:HE3	1.79	0.63
1:o:352:ILE:HG13	1:o:353:GLN:N	2.12	0.63
1:s:294:ASP:HA	1:s:355:VAL:CG2	2.28	0.63
1:4:226:ASP:HB3	1:4:233:MET:HE3	1.79	0.63
1:5:226:ASP:HB3	1:5:233:MET:HE3	1.79	0.63
1:B:294:ASP:HA	1:B:355:VAL:CG2	2.28	0.63
1:F:370:LYS:HG3	1:F:371:ILE:H	1.62	0.63
1:b:352:ILE:HG13	1:b:353:GLN:N	2.12	0.63
1:d:294:ASP:HA	1:d:355:VAL:CG2	2.28	0.63
1:r:294:ASP:HA	1:r:355:VAL:CG2	2.28	0.63
1:u:294:ASP:HA	1:u:355:VAL:CG2	2.28	0.63
1:2:294:ASP:HA	1:2:355:VAL:CG2	2.28	0.63
1:A:352:ILE:HG13	1:A:353:GLN:N	2.12	0.63
1:J:352:ILE:HG13	1:J:353:GLN:N	2.12	0.63
1:K:226:ASP:HB3	1:K:233:MET:HE3	1.79	0.63
1:W:370:LYS:HG3	1:W:371:ILE:H	1.62	0.63
1:Z:226:ASP:HB3	1:Z:233:MET:HE3	1.79	0.63
1:n:294:ASP:HA	1:n:355:VAL:CG2	2.28	0.63
1:n:370:LYS:HG3	1:n:371:ILE:H	1.62	0.63
1:o:294:ASP:HA	1:o:355:VAL:CG2	2.28	0.63
1:p:294:ASP:HA	1:p:355:VAL:CG2	2.28	0.63
1:p:352:ILE:HG13	1:p:353:GLN:N	2.12	0.63
1:v:370:LYS:HG3	1:v:371:ILE:H	1.62	0.63
1:3:294:ASP:HA	1:3:355:VAL:CG2	2.28	0.63
1:6:294:ASP:HA	1:6:355:VAL:CG2	2.28	0.63
1:B:226:ASP:HB3	1:B:233:MET:HE3	1.79	0.63
1:X:294:ASP:HA	1:X:355:VAL:CG2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:294:ASP:HA	1:f:355:VAL:CG2	2.28	0.63
1:g:226:ASP:HB3	1:g:233:MET:HE3	1.79	0.63
1:h:370:LYS:HG3	1:h:371:ILE:H	1.62	0.63
1:k:370:LYS:HG3	1:k:371:ILE:H	1.62	0.63
1:m:226:ASP:HB3	1:m:233:MET:HE3	1.79	0.63
1:q:226:ASP:HB3	1:q:233:MET:HE3	1.79	0.63
1:x:294:ASP:HA	1:x:355:VAL:CG2	2.28	0.63
1:A:294:ASP:HA	1:A:355:VAL:CG2	2.28	0.63
1:K:294:ASP:HA	1:K:355:VAL:CG2	2.28	0.63
1:O:294:ASP:HA	1:O:355:VAL:CG2	2.28	0.63
1:a:352:ILE:HG13	1:a:353:GLN:N	2.11	0.63
1:g:294:ASP:HA	1:g:355:VAL:CG2	2.28	0.63
1:7:294:ASP:HA	1:7:355:VAL:CG2	2.28	0.63
1:T:294:ASP:HA	1:T:355:VAL:CG2	2.28	0.63
1:c:226:ASP:HB3	1:c:233:MET:HE3	1.79	0.63
1:q:294:ASP:HA	1:q:355:VAL:CG2	2.28	0.63
1:A:422:THR:HG22	1:t:53:TYR:CD2	2.34	0.63
1:B:352:ILE:HG13	1:B:353:GLN:N	2.12	0.63
1:N:352:ILE:HG13	1:N:353:GLN:N	2.11	0.63
1:P:226:ASP:HB3	1:P:233:MET:HE3	1.79	0.63
1:V:226:ASP:HB3	1:V:233:MET:HE3	1.79	0.63
1:l:294:ASP:HA	1:l:355:VAL:CG2	2.28	0.63
1:z:294:ASP:HA	1:z:355:VAL:CG2	2.28	0.63
1:7:370:LYS:HG3	1:7:371:ILE:H	1.62	0.63
1:9:294:ASP:HA	1:9:355:VAL:CG2	2.28	0.63
1:G:294:ASP:HA	1:G:355:VAL:CG2	2.28	0.63
1:L:226:ASP:HB3	1:L:233:MET:HE3	1.79	0.63
1:Q:294:ASP:HA	1:Q:355:VAL:CG2	2.28	0.63
1:V:294:ASP:HA	1:V:355:VAL:CG2	2.28	0.63
1:s:226:ASP:HB3	1:s:233:MET:HE3	1.79	0.63
1:t:294:ASP:HA	1:t:355:VAL:CG2	2.28	0.63
1:j:294:ASP:HA	1:j:355:VAL:CG2	2.28	0.63
1:m:294:ASP:HA	1:m:355:VAL:CG2	2.28	0.63
1:w:294:ASP:HA	1:w:355:VAL:CG2	2.28	0.63
1:H:294:ASP:HA	1:H:355:VAL:CG2	2.28	0.62
1:N:294:ASP:HA	1:N:355:VAL:CG2	2.28	0.62
1:D:226:ASP:HB3	1:D:233:MET:HE3	1.79	0.62
1:R:294:ASP:HA	1:R:355:VAL:CG2	2.28	0.62
1:c:294:ASP:HA	1:c:355:VAL:CG2	2.28	0.62
1:4:294:ASP:HA	1:4:355:VAL:CG2	2.28	0.62
1:C:294:ASP:HA	1:C:355:VAL:CG2	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:370:LYS:HG3	1:P:371:ILE:H	1.62	0.62
1:a:294:ASP:HA	1:a:355:VAL:CG2	2.28	0.62
1:E:294:ASP:HA	1:E:355:VAL:CG2	2.28	0.62
1:k:294:ASP:HA	1:k:355:VAL:CG2	2.28	0.62
1:8:422:THR:HG22	1:K:53:TYR:CD2	2.36	0.61
1:C:211:ASP:CB	1:C:249:LEU:HD11	2.31	0.61
1:K:211:ASP:CB	1:K:249:LEU:HD11	2.31	0.61
1:R:211:ASP:CB	1:R:249:LEU:HD11	2.31	0.61
1:X:211:ASP:CB	1:X:249:LEU:HD11	2.31	0.61
1:j:211:ASP:CB	1:j:249:LEU:HD11	2.31	0.61
1:t:211:ASP:CB	1:t:249:LEU:HD11	2.31	0.61
1:7:211:ASP:CB	1:7:249:LEU:HD11	2.31	0.61
1:P:211:ASP:CB	1:P:249:LEU:HD11	2.31	0.61
1:f:211:ASP:C	1:f:249:LEU:CD1	2.74	0.61
1:h:211:ASP:CB	1:h:249:LEU:HD11	2.31	0.61
1:r:211:ASP:CB	1:r:249:LEU:HD11	2.31	0.61
1:2:211:ASP:C	1:2:249:LEU:CD1	2.74	0.61
1:L:211:ASP:CB	1:L:249:LEU:HD11	2.31	0.61
1:d:211:ASP:CB	1:d:249:LEU:HD11	2.31	0.61
1:k:211:ASP:CB	1:k:249:LEU:HD11	2.31	0.61
1:u:211:ASP:CB	1:u:249:LEU:HD11	2.31	0.61
1:B:211:ASP:CB	1:B:249:LEU:HD11	2.31	0.61
1:Q:211:ASP:CB	1:Q:249:LEU:HD11	2.31	0.61
1:T:211:ASP:CB	1:T:249:LEU:HD11	2.31	0.61
1:o:211:ASP:CB	1:o:249:LEU:HD11	2.31	0.61
1:2:211:ASP:CB	1:2:249:LEU:HD11	2.31	0.61
1:3:211:ASP:CB	1:3:249:LEU:HD11	2.31	0.61
1:A:211:ASP:CB	1:A:249:LEU:HD11	2.31	0.61
1:Q:211:ASP:C	1:Q:249:LEU:CD1	2.74	0.61
1:l:211:ASP:C	1:l:249:LEU:CD1	2.74	0.61
1:Y:211:ASP:CB	1:Y:249:LEU:HD11	2.31	0.60
1:z:211:ASP:CB	1:z:249:LEU:HD11	2.31	0.60
1:1:211:ASP:CB	1:1:249:LEU:HD11	2.31	0.60
1:E:211:ASP:CB	1:E:249:LEU:HD11	2.31	0.60
1:V:211:ASP:CB	1:V:249:LEU:HD11	2.31	0.60
1:f:211:ASP:CB	1:f:249:LEU:HD11	2.31	0.60
1:n:211:ASP:CB	1:n:249:LEU:HD11	2.31	0.60
1:p:211:ASP:C	1:p:249:LEU:CD1	2.74	0.60
1:G:211:ASP:CB	1:G:249:LEU:HD11	2.31	0.60
1:W:211:ASP:CB	1:W:249:LEU:HD11	2.31	0.60
1:a:211:ASP:CB	1:a:249:LEU:HD11	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:226:ASP:CB	1:d:233:MET:HE3	2.32	0.60
1:m:226:ASP:CB	1:m:233:MET:HE3	2.32	0.60
1:x:211:ASP:C	1:x:249:LEU:CD1	2.74	0.60
1:y:211:ASP:CB	1:y:249:LEU:HD11	2.31	0.60
1:A:226:ASP:CB	1:A:233:MET:HE3	2.32	0.60
1:E:226:ASP:CB	1:E:233:MET:HE3	2.32	0.60
1:F:211:ASP:CB	1:F:249:LEU:HD11	2.31	0.60
1:H:226:ASP:CB	1:H:233:MET:HE3	2.32	0.60
1:O:211:ASP:CB	1:O:249:LEU:HD11	2.31	0.60
1:R:211:ASP:C	1:R:249:LEU:CD1	2.74	0.60
1:p:226:ASP:CB	1:p:233:MET:HE3	2.32	0.60
1:q:226:ASP:CB	1:q:233:MET:HE3	2.32	0.60
1:s:296:ASP:OD1	1:s:296:ASP:O	2.20	0.60
1:x:211:ASP:CB	1:x:249:LEU:HD11	2.31	0.60
1:4:296:ASP:OD1	1:4:296:ASP:O	2.20	0.60
1:7:296:ASP:OD1	1:7:296:ASP:O	2.20	0.60
1:F:226:ASP:CB	1:F:233:MET:HE3	2.32	0.60
1:I:211:ASP:CB	1:I:249:LEU:HD11	2.31	0.60
1:V:226:ASP:CB	1:V:233:MET:HE3	2.32	0.60
1:W:296:ASP:OD1	1:W:296:ASP:O	2.20	0.60
1:Z:226:ASP:CB	1:Z:233:MET:HE3	2.32	0.60
1:b:211:ASP:CB	1:b:249:LEU:HD11	2.31	0.60
1:e:211:ASP:CB	1:e:249:LEU:HD11	2.31	0.60
1:n:226:ASP:CB	1:n:233:MET:HE3	2.32	0.60
1:n:296:ASP:O	1:n:296:ASP:OD1	2.20	0.60
1:p:211:ASP:CB	1:p:249:LEU:HD11	2.31	0.60
1:p:296:ASP:OD1	1:p:296:ASP:O	2.20	0.60
1:w:296:ASP:OD1	1:w:296:ASP:O	2.20	0.60
1:2:296:ASP:OD1	1:2:296:ASP:O	2.20	0.60
1:5:211:ASP:CB	1:5:249:LEU:HD11	2.31	0.60
1:9:296:ASP:OD1	1:9:296:ASP:O	2.20	0.60
1:J:211:ASP:CB	1:J:249:LEU:HD11	2.31	0.60
1:J:449:ASN:HD21	1:J:452:ALA:HB3	1.67	0.60
1:M:449:ASN:HD21	1:M:452:ALA:HB3	1.67	0.60
1:N:296:ASP:O	1:N:296:ASP:OD1	2.20	0.60
1:S:53:TYR:CD2	1:h:422:THR:HG22	2.36	0.60
1:g:211:ASP:CB	1:g:249:LEU:HD11	2.31	0.60
1:l:226:ASP:CB	1:l:233:MET:HE3	2.32	0.60
1:m:296:ASP:OD1	1:m:296:ASP:O	2.20	0.60
1:s:211:ASP:CB	1:s:249:LEU:HD11	2.31	0.60
1:y:211:ASP:C	1:y:249:LEU:CD1	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:296:ASP:OD1	1:z:296:ASP:O	2.20	0.60
1:l:226:ASP:CB	1:l:233:MET:HE3	2.32	0.60
1:6:211:ASP:CB	1:6:249:LEU:HD11	2.31	0.60
1:D:211:ASP:CB	1:D:249:LEU:HD11	2.31	0.60
1:M:211:ASP:CB	1:M:249:LEU:HD11	2.31	0.60
1:N:211:ASP:C	1:N:249:LEU:CD1	2.74	0.60
1:N:211:ASP:CB	1:N:249:LEU:HD11	2.31	0.60
1:N:226:ASP:CB	1:N:233:MET:HE3	2.32	0.60
1:Q:226:ASP:CB	1:Q:233:MET:HE3	2.32	0.60
1:R:53:TYR:CD2	1:T:422:THR:HG22	2.37	0.60
1:c:296:ASP:OD1	1:c:296:ASP:O	2.20	0.60
1:j:226:ASP:CB	1:j:233:MET:HE3	2.32	0.60
1:k:226:ASP:CB	1:k:233:MET:HE3	2.32	0.60
1:l:211:ASP:CB	1:l:249:LEU:HD11	2.31	0.60
1:m:449:ASN:HD21	1:m:452:ALA:HB3	1.67	0.60
1:p:449:ASN:HD21	1:p:452:ALA:HB3	1.67	0.60
1:s:226:ASP:CB	1:s:233:MET:HE3	2.32	0.60
1:v:211:ASP:CB	1:v:249:LEU:HD11	2.31	0.60
1:v:226:ASP:CB	1:v:233:MET:HE3	2.32	0.60
1:4:449:ASN:HD21	1:4:452:ALA:HB3	1.67	0.60
1:6:296:ASP:O	1:6:296:ASP:OD1	2.20	0.60
1:9:211:ASP:CB	1:9:249:LEU:HD11	2.31	0.60
1:B:296:ASP:OD1	1:B:296:ASP:O	2.20	0.60
1:C:226:ASP:CB	1:C:233:MET:HE3	2.32	0.60
1:H:211:ASP:CB	1:H:249:LEU:HD11	2.31	0.60
1:N:449:ASN:HD21	1:N:452:ALA:HB3	1.67	0.60
1:Q:449:ASN:HD21	1:Q:452:ALA:HB3	1.67	0.60
1:S:449:ASN:HD21	1:S:452:ALA:HB3	1.67	0.60
1:T:449:ASN:HD21	1:T:452:ALA:HB3	1.67	0.60
1:f:226:ASP:CB	1:f:233:MET:HE3	2.32	0.60
1:l:296:ASP:O	1:l:296:ASP:OD1	2.20	0.60
1:n:449:ASN:HD21	1:n:452:ALA:HB3	1.67	0.60
1:s:449:ASN:HD21	1:s:452:ALA:HB3	1.67	0.60
1:t:296:ASP:O	1:t:296:ASP:OD1	2.20	0.60
1:4:211:ASP:CB	1:4:249:LEU:HD11	2.31	0.60
1:5:449:ASN:HD21	1:5:452:ALA:HB3	1.67	0.60
1:8:226:ASP:CB	1:8:233:MET:HE3	2.32	0.60
1:9:226:ASP:CB	1:9:233:MET:HE3	2.32	0.60
1:D:449:ASN:HD21	1:D:452:ALA:HB3	1.67	0.60
1:E:296:ASP:OD1	1:E:296:ASP:O	2.20	0.60
1:K:226:ASP:CB	1:K:233:MET:HE3	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:296:ASP:O	1:K:296:ASP:OD1	2.20	0.60
1:L:226:ASP:CB	1:L:233:MET:HE3	2.32	0.60
1:Z:211:ASP:CB	1:Z:249:LEU:HD11	2.31	0.60
1:e:226:ASP:CB	1:e:233:MET:HE3	2.32	0.60
1:i:211:ASP:CB	1:i:249:LEU:HD11	2.31	0.60
1:m:211:ASP:CB	1:m:249:LEU:HD11	2.31	0.60
1:u:449:ASN:HD21	1:u:452:ALA:HB3	1.67	0.60
1:v:296:ASP:OD1	1:v:296:ASP:O	2.20	0.60
1:w:211:ASP:CB	1:w:249:LEU:HD11	2.31	0.60
1:1:296:ASP:OD1	1:1:296:ASP:O	2.20	0.60
1:4:226:ASP:CB	1:4:233:MET:HE3	2.32	0.60
1:8:211:ASP:CB	1:8:249:LEU:HD11	2.31	0.60
1:Q:296:ASP:O	1:Q:296:ASP:OD1	2.20	0.60
1:V:449:ASN:HD21	1:V:452:ALA:HB3	1.67	0.60
1:W:226:ASP:CB	1:W:233:MET:HE3	2.32	0.60
1:Z:296:ASP:OD1	1:Z:296:ASP:O	2.20	0.60
1:a:226:ASP:CB	1:a:233:MET:HE3	2.32	0.60
1:c:211:ASP:CB	1:c:249:LEU:HD11	2.31	0.60
1:c:226:ASP:CB	1:c:233:MET:HE3	2.32	0.60
1:f:296:ASP:O	1:f:296:ASP:OD1	2.20	0.60
1:f:449:ASN:HD21	1:f:452:ALA:HB3	1.67	0.60
1:j:296:ASP:OD1	1:j:296:ASP:O	2.20	0.60
1:q:211:ASP:CB	1:q:249:LEU:HD11	2.31	0.60
1:q:449:ASN:HD21	1:q:452:ALA:HB3	1.67	0.60
1:v:449:ASN:HD21	1:v:452:ALA:HB3	1.67	0.60
1:w:226:ASP:CB	1:w:233:MET:HE3	2.32	0.60
1:D:296:ASP:OD1	1:D:296:ASP:O	2.20	0.59
1:G:449:ASN:HD21	1:G:452:ALA:HB3	1.67	0.59
1:I:296:ASP:O	1:I:296:ASP:OD1	2.20	0.59
1:O:226:ASP:CB	1:O:233:MET:HE3	2.32	0.59
1:T:226:ASP:CB	1:T:233:MET:HE3	2.32	0.59
1:X:226:ASP:CB	1:X:233:MET:HE3	2.32	0.59
1:Y:296:ASP:O	1:Y:296:ASP:OD1	2.20	0.59
1:b:449:ASN:HD21	1:b:452:ALA:HB3	1.67	0.59
1:i:296:ASP:O	1:i:296:ASP:OD1	2.20	0.59
1:6:226:ASP:CB	1:6:233:MET:HE3	2.32	0.59
1:A:449:ASN:HD21	1:A:452:ALA:HB3	1.67	0.59
1:B:226:ASP:CB	1:B:233:MET:HE3	2.32	0.59
1:G:296:ASP:OD1	1:G:296:ASP:O	2.20	0.59
1:M:296:ASP:OD1	1:M:296:ASP:O	2.20	0.59
1:S:226:ASP:CB	1:S:233:MET:HE3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:296:ASP:OD1	1:X:296:ASP:O	2.20	0.59
1:b:211:ASP:C	1:b:249:LEU:CD1	2.74	0.59
1:o:226:ASP:CB	1:o:233:MET:HE3	2.32	0.59
1:q:296:ASP:O	1:q:296:ASP:OD1	2.20	0.59
1:t:211:ASP:C	1:t:249:LEU:CD1	2.74	0.59
1:G:226:ASP:CB	1:G:233:MET:HE3	2.32	0.59
1:H:296:ASP:OD1	1:H:296:ASP:O	2.20	0.59
1:M:226:ASP:CB	1:M:233:MET:HE3	2.32	0.59
1:f:53:TYR:CD2	1:p:422:THR:HG22	2.37	0.59
1:t:226:ASP:CB	1:t:233:MET:HE3	2.32	0.59
1:x:449:ASN:HD21	1:x:452:ALA:HB3	1.67	0.59
1:A:296:ASP:OD1	1:A:296:ASP:O	2.20	0.59
1:H:449:ASN:HD21	1:H:452:ALA:HB3	1.67	0.59
1:I:226:ASP:CB	1:I:233:MET:HE3	2.32	0.59
1:O:449:ASN:HD21	1:O:452:ALA:HB3	1.67	0.59
1:S:211:ASP:CB	1:S:249:LEU:HD11	2.31	0.59
1:S:296:ASP:OD1	1:S:296:ASP:O	2.20	0.59
1:T:296:ASP:OD1	1:T:296:ASP:O	2.20	0.59
1:X:449:ASN:HD21	1:X:452:ALA:HB3	1.67	0.59
1:a:449:ASN:HD21	1:a:452:ALA:HB3	1.67	0.59
1:g:296:ASP:OD1	1:g:296:ASP:O	2.20	0.59
1:i:422:THR:HG22	1:j:53:TYR:CD2	2.37	0.59
1:k:296:ASP:OD1	1:k:296:ASP:O	2.20	0.59
1:l:449:ASN:HD21	1:l:452:ALA:HB3	1.67	0.59
1:r:226:ASP:CB	1:r:233:MET:HE3	2.32	0.59
1:u:226:ASP:CB	1:u:233:MET:HE3	2.32	0.59
1:2:449:ASN:HD21	1:2:452:ALA:HB3	1.67	0.59
1:J:226:ASP:CB	1:J:233:MET:HE3	2.32	0.59
1:R:226:ASP:CB	1:R:233:MET:HE3	2.32	0.59
1:V:296:ASP:O	1:V:296:ASP:OD1	2.20	0.59
1:Y:226:ASP:CB	1:Y:233:MET:HE3	2.32	0.59
1:g:226:ASP:CB	1:g:233:MET:HE3	2.32	0.59
1:i:449:ASN:HD21	1:i:452:ALA:HB3	1.67	0.59
1:t:449:ASN:HD21	1:t:452:ALA:HB3	1.67	0.59
1:3:296:ASP:O	1:3:296:ASP:OD1	2.20	0.59
1:5:352:ILE:HG13	1:5:353:GLN:H	1.68	0.59
1:7:226:ASP:CB	1:7:233:MET:HE3	2.32	0.59
1:L:352:ILE:HG13	1:L:353:GLN:H	1.68	0.59
1:P:296:ASP:OD1	1:P:296:ASP:O	2.20	0.59
1:b:226:ASP:CB	1:b:233:MET:HE3	2.32	0.59
1:c:449:ASN:HD21	1:c:452:ALA:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:296:ASP:OD1	1:e:296:ASP:O	2.20	0.59
1:h:226:ASP:CB	1:h:233:MET:HE3	2.32	0.59
1:x:296:ASP:OD1	1:x:296:ASP:O	2.20	0.59
1:y:226:ASP:CB	1:y:233:MET:HE3	2.32	0.59
1:z:226:ASP:CB	1:z:233:MET:HE3	2.32	0.59
1:3:226:ASP:CB	1:3:233:MET:HE3	2.32	0.59
1:L:296:ASP:OD1	1:L:296:ASP:O	2.20	0.59
1:N:53:TYR:CD2	1:W:422:THR:HG22	2.37	0.59
1:P:226:ASP:CB	1:P:233:MET:HE3	2.32	0.59
1:R:296:ASP:OD1	1:R:296:ASP:O	2.20	0.59
1:W:352:ILE:HG13	1:W:353:GLN:H	1.68	0.59
1:Z:449:ASN:HD21	1:Z:452:ALA:HB3	1.67	0.59
1:a:296:ASP:O	1:a:296:ASP:OD1	2.20	0.59
1:b:352:ILE:HG13	1:b:353:GLN:H	1.68	0.59
1:2:226:ASP:CB	1:2:233:MET:HE3	2.32	0.59
1:D:226:ASP:CB	1:D:233:MET:HE3	2.32	0.59
1:F:449:ASN:HD21	1:F:452:ALA:HB3	1.67	0.59
1:I:449:ASN:HD21	1:I:452:ALA:HB3	1.67	0.59
1:W:449:ASN:HD21	1:W:452:ALA:HB3	1.67	0.59
1:X:352:ILE:HG13	1:X:353:GLN:H	1.68	0.59
1:f:352:ILE:HG13	1:f:353:GLN:H	1.68	0.59
1:j:449:ASN:HD21	1:j:452:ALA:HB3	1.67	0.59
1:l:352:ILE:HG13	1:l:353:GLN:H	1.68	0.59
1:r:449:ASN:HD21	1:r:452:ALA:HB3	1.67	0.59
1:x:352:ILE:HG13	1:x:353:GLN:H	1.68	0.59
1:1:422:THR:HG22	1:u:53:TYR:CD2	2.38	0.59
1:B:449:ASN:HD21	1:B:452:ALA:HB3	1.67	0.59
1:L:211:ASP:C	1:L:249:LEU:CD1	2.74	0.59
1:P:449:ASN:HD21	1:P:452:ALA:HB3	1.67	0.59
1:Z:352:ILE:HG13	1:Z:353:GLN:H	1.68	0.59
1:a:352:ILE:HG13	1:a:353:GLN:H	1.68	0.59
1:d:449:ASN:HD21	1:d:452:ALA:HB3	1.67	0.59
1:i:226:ASP:CB	1:i:233:MET:HE3	2.32	0.59
1:k:449:ASN:HD21	1:k:452:ALA:HB3	1.67	0.59
1:r:296:ASP:OD1	1:r:296:ASP:O	2.20	0.59
1:u:296:ASP:OD1	1:u:296:ASP:O	2.20	0.59
1:w:352:ILE:HG13	1:w:353:GLN:H	1.68	0.59
1:8:296:ASP:OD1	1:8:296:ASP:O	2.20	0.59
1:C:296:ASP:O	1:C:296:ASP:OD1	2.20	0.59
1:E:426:THR:CG2	1:E:428:GLN:CD	2.76	0.59
1:J:296:ASP:OD1	1:J:296:ASP:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:449:ASN:HD21	1:L:452:ALA:HB3	1.67	0.59
1:O:296:ASP:OD1	1:O:296:ASP:O	2.20	0.59
1:b:296:ASP:OD1	1:b:296:ASP:O	2.20	0.59
1:d:296:ASP:O	1:d:296:ASP:OD1	2.20	0.59
1:e:449:ASN:HD21	1:e:452:ALA:HB3	1.67	0.59
1:h:449:ASN:HD21	1:h:452:ALA:HB3	1.67	0.59
1:m:426:THR:CG2	1:m:428:GLN:CD	2.76	0.59
1:n:53:TYR:CD2	1:y:422:THR:HG22	2.37	0.59
1:p:426:THR:CG2	1:p:428:GLN:CD	2.76	0.59
1:v:426:THR:CG2	1:v:428:GLN:CD	2.76	0.59
1:5:296:ASP:OD1	1:5:296:ASP:O	2.20	0.58
1:C:449:ASN:HD21	1:C:452:ALA:HB3	1.67	0.58
1:F:296:ASP:O	1:F:296:ASP:OD1	2.20	0.58
1:J:211:ASP:C	1:J:249:LEU:CD1	2.74	0.58
1:K:426:THR:CG2	1:K:428:GLN:CD	2.76	0.58
1:P:352:ILE:HG13	1:P:353:GLN:H	1.68	0.58
1:Q:426:THR:CG2	1:Q:428:GLN:CD	2.76	0.58
1:f:426:THR:CG2	1:f:428:GLN:CD	2.76	0.58
1:h:296:ASP:OD1	1:h:296:ASP:O	2.20	0.58
1:y:449:ASN:HD21	1:y:452:ALA:HB3	1.67	0.58
1:2:426:THR:CG2	1:2:428:GLN:CD	2.76	0.58
1:4:426:THR:CG2	1:4:428:GLN:CD	2.76	0.58
1:5:426:THR:CG2	1:5:428:GLN:CD	2.76	0.58
1:9:449:ASN:HD21	1:9:452:ALA:HB3	1.67	0.58
1:B:426:THR:CG2	1:B:428:GLN:CD	2.76	0.58
1:H:426:THR:CG2	1:H:428:GLN:CD	2.76	0.58
1:I:426:THR:CG2	1:I:428:GLN:CD	2.76	0.58
1:J:352:ILE:HG13	1:J:353:GLN:H	1.68	0.58
1:x:226:ASP:CB	1:x:233:MET:HE3	2.32	0.58
1:y:296:ASP:O	1:y:296:ASP:OD1	2.20	0.58
1:8:449:ASN:HD21	1:8:452:ALA:HB3	1.67	0.58
1:F:352:ILE:HG13	1:F:353:GLN:H	1.68	0.58
1:H:352:ILE:HG13	1:H:353:GLN:H	1.68	0.58
1:I:422:THR:HG22	1:s:53:TYR:CD2	2.38	0.58
1:c:211:ASP:C	1:c:249:LEU:CD1	2.74	0.58
1:e:426:THR:CG2	1:e:428:GLN:CD	2.76	0.58
1:g:449:ASN:HD21	1:g:452:ALA:HB3	1.67	0.58
1:r:209:GLU:OE2	1:r:471:PHE:HE1	1.87	0.58
1:s:352:ILE:HG13	1:s:353:GLN:H	1.68	0.58
1:w:426:THR:CG2	1:w:428:GLN:CD	2.76	0.58
1:w:449:ASN:HD21	1:w:452:ALA:HB3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:426:THR:CG2	1:z:428:GLN:CD	2.76	0.58
1:2:352:ILE:HG13	1:2:353:GLN:H	1.68	0.58
1:3:352:ILE:HG13	1:3:353:GLN:H	1.68	0.58
1:5:211:ASP:C	1:5:249:LEU:CD1	2.74	0.58
1:5:226:ASP:CB	1:5:233:MET:HE3	2.32	0.58
1:A:352:ILE:HG13	1:A:353:GLN:H	1.68	0.58
1:D:426:THR:CG2	1:D:428:GLN:CD	2.76	0.58
1:G:426:THR:CG2	1:G:428:GLN:CD	2.76	0.58
1:I:209:GLU:OE2	1:I:471:PHE:HE1	1.87	0.58
1:I:352:ILE:HG13	1:I:353:GLN:H	1.68	0.58
1:W:209:GLU:OE2	1:W:471:PHE:HE1	1.87	0.58
1:W:426:THR:CG2	1:W:428:GLN:CD	2.76	0.58
1:Y:449:ASN:HD21	1:Y:452:ALA:HB3	1.67	0.58
1:d:352:ILE:HG13	1:d:353:GLN:H	1.68	0.58
1:j:352:ILE:HG13	1:j:353:GLN:H	1.68	0.58
1:p:352:ILE:HG13	1:p:353:GLN:H	1.68	0.58
1:x:426:THR:CG2	1:x:428:GLN:CD	2.76	0.58
1:3:449:ASN:HD21	1:3:452:ALA:HB3	1.67	0.58
1:7:449:ASN:HD21	1:7:452:ALA:HB3	1.67	0.58
1:8:352:ILE:HG13	1:8:353:GLN:H	1.68	0.58
1:A:426:THR:CG2	1:A:428:GLN:CD	2.76	0.58
1:B:422:THR:HG22	1:x:53:TYR:CD2	2.39	0.58
1:E:449:ASN:HD21	1:E:452:ALA:HB3	1.67	0.58
1:F:209:GLU:OE2	1:F:471:PHE:HE1	1.87	0.58
1:K:449:ASN:HD21	1:K:452:ALA:HB3	1.67	0.58
1:O:352:ILE:HG13	1:O:353:GLN:H	1.68	0.58
1:S:352:ILE:HG13	1:S:353:GLN:H	1.68	0.58
1:V:426:THR:CG2	1:V:428:GLN:CD	2.76	0.58
1:i:352:ILE:HG13	1:i:353:GLN:H	1.68	0.58
1:o:296:ASP:OD1	1:o:296:ASP:O	2.20	0.58
1:t:352:ILE:HG13	1:t:353:GLN:H	1.68	0.58
1:3:53:TYR:CD2	1:d:422:THR:HG22	2.39	0.58
1:5:209:GLU:OE2	1:5:471:PHE:HE1	1.87	0.58
1:6:449:ASN:HD21	1:6:452:ALA:HB3	1.67	0.58
1:A:209:GLU:OE2	1:A:471:PHE:HE1	1.87	0.58
1:B:352:ILE:HG13	1:B:353:GLN:H	1.68	0.58
1:X:426:THR:CG2	1:X:428:GLN:CD	2.76	0.58
1:a:209:GLU:OE2	1:a:471:PHE:HE1	1.87	0.58
1:a:426:THR:CG2	1:a:428:GLN:CD	2.76	0.58
1:f:209:GLU:OE2	1:f:471:PHE:HE1	1.87	0.58
1:i:426:THR:CG2	1:i:428:GLN:CD	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:426:THR:CG2	1:l:428:GLN:CD	2.76	0.58
1:z:449:ASN:HD21	1:z:452:ALA:HB3	1.67	0.58
1:1:426:THR:CG2	1:1:428:GLN:CD	2.76	0.58
1:1:449:ASN:HD21	1:1:452:ALA:HB3	1.67	0.58
1:6:426:THR:CG2	1:6:428:GLN:CD	2.76	0.58
1:F:426:THR:CG2	1:F:428:GLN:CD	2.76	0.58
1:P:209:GLU:OE2	1:P:471:PHE:HE1	1.87	0.58
1:T:426:THR:CG2	1:T:428:GLN:CD	2.76	0.58
1:X:209:GLU:OE2	1:X:471:PHE:HE1	1.87	0.58
1:Z:209:GLU:OE2	1:Z:471:PHE:HE1	1.87	0.58
1:c:426:THR:CG2	1:c:428:GLN:CD	2.76	0.58
1:l:209:GLU:OE2	1:l:471:PHE:HE1	1.87	0.58
1:o:449:ASN:HD21	1:o:452:ALA:HB3	1.67	0.58
1:q:426:THR:CG2	1:q:428:GLN:CD	2.76	0.58
1:s:209:GLU:OE2	1:s:471:PHE:HE1	1.87	0.58
1:D:352:ILE:HG13	1:D:353:GLN:H	1.68	0.58
1:L:426:THR:CG2	1:L:428:GLN:CD	2.76	0.58
1:M:209:GLU:OE2	1:M:471:PHE:HE1	1.87	0.58
1:R:426:THR:CG2	1:R:428:GLN:CD	2.76	0.58
1:S:209:GLU:OE2	1:S:471:PHE:HE1	1.87	0.58
1:Y:426:THR:CG2	1:Y:428:GLN:CD	2.76	0.58
1:q:209:GLU:OE2	1:q:471:PHE:HE1	1.87	0.58
1:r:352:ILE:HG13	1:r:353:GLN:H	1.68	0.58
1:6:211:ASP:O	1:6:249:LEU:HD11	2.02	0.58
1:9:426:THR:CG2	1:9:428:GLN:CD	2.76	0.58
1:T:352:ILE:HG13	1:T:353:GLN:H	1.68	0.58
1:o:426:THR:CG2	1:o:428:GLN:CD	2.76	0.58
1:u:426:THR:CG2	1:u:428:GLN:CD	2.76	0.58
1:y:426:THR:CG2	1:y:428:GLN:CD	2.76	0.58
1:4:422:THR:HG22	1:D:53:TYR:CD2	2.39	0.58
1:8:209:GLU:OE2	1:8:471:PHE:HE1	1.87	0.58
1:8:426:THR:CG2	1:8:428:GLN:CD	2.76	0.58
1:B:209:GLU:OE2	1:B:471:PHE:HE1	1.87	0.58
1:L:209:GLU:OE2	1:L:471:PHE:HE1	1.87	0.58
1:Q:53:TYR:CD2	1:l:422:THR:HG22	2.39	0.58
1:S:426:THR:CG2	1:S:428:GLN:CD	2.76	0.58
1:b:426:THR:CG2	1:b:428:GLN:CD	2.76	0.58
1:d:209:GLU:OE2	1:d:471:PHE:HE1	1.87	0.58
1:e:352:ILE:HG13	1:e:353:GLN:H	1.68	0.58
1:v:352:ILE:HG13	1:v:353:GLN:H	1.68	0.58
1:w:209:GLU:OE2	1:w:471:PHE:HE1	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:THR:CG2	1:B:230:GLU:H	2.17	0.57
1:C:229:THR:CG2	1:C:230:GLU:H	2.17	0.57
1:D:211:ASP:C	1:D:249:LEU:CD1	2.74	0.57
1:T:209:GLU:OE2	1:T:471:PHE:HE1	1.87	0.57
1:k:426:THR:CG2	1:k:428:GLN:CD	2.76	0.57
1:q:352:ILE:HG13	1:q:353:GLN:H	1.68	0.57
1:y:209:GLU:OE2	1:y:471:PHE:HE1	1.87	0.57
1:1:209:GLU:OE2	1:1:471:PHE:HE1	1.87	0.57
1:2:209:GLU:OE2	1:2:471:PHE:HE1	1.87	0.57
1:C:426:THR:CG2	1:C:428:GLN:CD	2.76	0.57
1:N:209:GLU:OE2	1:N:471:PHE:HE1	1.87	0.57
1:N:426:THR:CG2	1:N:428:GLN:CD	2.76	0.57
1:R:209:GLU:OE2	1:R:471:PHE:HE1	1.87	0.57
1:S:53:TYR:CG	1:h:422:THR:HG22	2.39	0.57
1:X:53:TYR:CD2	1:w:422:THR:HG22	2.39	0.57
1:h:426:THR:CG2	1:h:428:GLN:CD	2.76	0.57
1:u:352:ILE:HG13	1:u:353:GLN:H	1.68	0.57
1:5:229:THR:CG2	1:5:230:GLU:H	2.17	0.57
1:A:184:THR:CG2	1:A:483:PRO:HD2	2.35	0.57
1:A:229:THR:CG2	1:A:230:GLU:H	2.17	0.57
1:M:426:THR:CG2	1:M:428:GLN:CD	2.76	0.57
1:O:209:GLU:OE2	1:O:471:PHE:HE1	1.87	0.57
1:R:229:THR:CG2	1:R:230:GLU:H	2.18	0.57
1:d:426:THR:CG2	1:d:428:GLN:CD	2.76	0.57
1:i:209:GLU:OE2	1:i:471:PHE:HE1	1.87	0.57
1:k:209:GLU:OE2	1:k:471:PHE:HE1	1.87	0.57
1:n:426:THR:CG2	1:n:428:GLN:CD	2.76	0.57
1:r:184:THR:CG2	1:r:483:PRO:HD2	2.35	0.57
1:s:426:THR:CG2	1:s:428:GLN:CD	2.76	0.57
1:t:209:GLU:OE2	1:t:471:PHE:HE1	1.87	0.57
1:u:184:THR:CG2	1:u:483:PRO:HD2	2.35	0.57
1:4:209:GLU:OE2	1:4:471:PHE:HE1	1.87	0.57
1:6:229:THR:CG2	1:6:230:GLU:H	2.17	0.57
1:6:352:ILE:HG13	1:6:353:GLN:H	1.68	0.57
1:A:211:ASP:C	1:A:249:LEU:CD1	2.74	0.57
1:B:184:THR:CG2	1:B:483:PRO:HD2	2.35	0.57
1:D:184:THR:CG2	1:D:483:PRO:HD2	2.35	0.57
1:G:184:THR:CG2	1:G:483:PRO:HD2	2.35	0.57
1:J:209:GLU:OE2	1:J:471:PHE:HE1	1.87	0.57
1:V:229:THR:CG2	1:V:230:GLU:H	2.17	0.57
1:Y:209:GLU:OE2	1:Y:471:PHE:HE1	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:184:THR:CG2	1:e:483:PRO:HD2	2.35	0.57
1:k:229:THR:CG2	1:k:230:GLU:H	2.17	0.57
1:k:352:ILE:HG13	1:k:353:GLN:H	1.68	0.57
1:o:209:GLU:OE2	1:o:471:PHE:HE1	1.87	0.57
1:p:209:GLU:OE2	1:p:471:PHE:HE1	1.87	0.57
1:y:352:ILE:HG13	1:y:353:GLN:H	1.68	0.57
1:z:209:GLU:OE2	1:z:471:PHE:HE1	1.87	0.57
1:2:184:THR:CG2	1:2:483:PRO:HD2	2.35	0.57
1:B:211:ASP:C	1:B:249:LEU:CD1	2.74	0.57
1:K:209:GLU:OE2	1:K:471:PHE:HE1	1.87	0.57
1:K:352:ILE:HG13	1:K:353:GLN:H	1.68	0.57
1:R:449:ASN:HD21	1:R:452:ALA:HB3	1.67	0.57
1:V:184:THR:CG2	1:V:483:PRO:HD2	2.35	0.57
1:Z:184:THR:CG2	1:Z:483:PRO:HD2	2.35	0.57
1:Z:211:ASP:C	1:Z:249:LEU:CD1	2.74	0.57
1:c:229:THR:CG2	1:c:230:GLU:H	2.17	0.57
1:d:229:THR:CG2	1:d:230:GLU:H	2.17	0.57
1:f:184:THR:CG2	1:f:483:PRO:HD2	2.35	0.57
1:h:184:THR:CG2	1:h:483:PRO:HD2	2.35	0.57
1:m:184:THR:CG2	1:m:483:PRO:HD2	2.35	0.57
1:o:229:THR:CG2	1:o:230:GLU:H	2.17	0.57
1:o:352:ILE:HG13	1:o:353:GLN:H	1.68	0.57
1:3:184:THR:CG2	1:3:483:PRO:HD2	2.35	0.57
1:4:184:THR:CG2	1:4:483:PRO:HD2	2.35	0.57
1:6:209:GLU:OE2	1:6:471:PHE:HE1	1.87	0.57
1:7:209:GLU:OE2	1:7:471:PHE:HE1	1.87	0.57
1:8:184:THR:CG2	1:8:483:PRO:HD2	2.35	0.57
1:9:209:GLU:OE2	1:9:471:PHE:HE1	1.87	0.57
1:9:352:ILE:HG13	1:9:353:GLN:H	1.68	0.57
1:I:53:TYR:CD2	1:Z:422:THR:HG22	2.39	0.57
1:K:184:THR:CG2	1:K:483:PRO:HD2	2.35	0.57
1:L:184:THR:CG2	1:L:483:PRO:HD2	2.35	0.57
1:M:211:ASP:C	1:M:249:LEU:CD1	2.74	0.57
1:N:352:ILE:HG13	1:N:353:GLN:H	1.68	0.57
1:O:184:THR:CG2	1:O:483:PRO:HD2	2.35	0.57
1:Q:352:ILE:HG13	1:Q:353:GLN:H	1.68	0.57
1:V:228:VAL:HG23	1:V:229:THR:H	1.70	0.57
1:Y:352:ILE:HG13	1:Y:353:GLN:H	1.68	0.57
1:a:229:THR:CG2	1:a:230:GLU:H	2.17	0.57
1:c:209:GLU:OE2	1:c:471:PHE:HE1	1.87	0.57
1:d:228:VAL:HG23	1:d:229:THR:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:229:THR:CG2	1:g:230:GLU:H	2.17	0.57
1:i:184:THR:CG2	1:i:483:PRO:HD2	2.35	0.57
1:t:426:THR:CG2	1:t:428:GLN:CD	2.76	0.57
1:v:209:GLU:OE2	1:v:471:PHE:HE1	1.87	0.57
1:1:352:ILE:HG13	1:1:353:GLN:H	1.68	0.57
1:2:228:VAL:HG23	1:2:229:THR:H	1.70	0.57
1:3:228:VAL:HG23	1:3:229:THR:H	1.70	0.57
1:4:229:THR:CG2	1:4:230:GLU:H	2.17	0.57
1:A:228:VAL:HG23	1:A:229:THR:H	1.70	0.57
1:H:209:GLU:OE2	1:H:471:PHE:HE1	1.87	0.57
1:J:184:THR:CG2	1:J:483:PRO:HD2	2.35	0.57
1:M:184:THR:CG2	1:M:483:PRO:HD2	2.35	0.57
1:N:184:THR:CG2	1:N:483:PRO:HD2	2.35	0.57
1:P:184:THR:CG2	1:P:483:PRO:HD2	2.35	0.57
1:V:352:ILE:HG13	1:V:353:GLN:H	1.68	0.57
1:Y:184:THR:CG2	1:Y:483:PRO:HD2	2.35	0.57
1:Y:228:VAL:HG23	1:Y:229:THR:H	1.70	0.57
1:Y:229:THR:CG2	1:Y:230:GLU:H	2.17	0.57
1:b:228:VAL:HG23	1:b:229:THR:H	1.70	0.57
1:c:184:THR:CG2	1:c:483:PRO:HD2	2.35	0.57
1:h:352:ILE:HG13	1:h:353:GLN:H	1.68	0.57
1:i:229:THR:CG2	1:i:230:GLU:H	2.18	0.57
1:j:184:THR:CG2	1:j:483:PRO:HD2	2.35	0.57
1:j:426:THR:CG2	1:j:428:GLN:CD	2.76	0.57
1:m:209:GLU:OE2	1:m:471:PHE:HE1	1.87	0.57
1:m:228:VAL:HG23	1:m:229:THR:H	1.70	0.57
1:m:352:ILE:HG13	1:m:353:GLN:H	1.68	0.57
1:p:228:VAL:HG23	1:p:229:THR:H	1.70	0.57
1:r:426:THR:CG2	1:r:428:GLN:CD	2.76	0.57
1:1:184:THR:CG2	1:1:483:PRO:HD2	2.35	0.57
1:J:426:THR:CG2	1:J:428:GLN:CD	2.76	0.57
1:L:229:THR:CG2	1:L:230:GLU:H	2.17	0.57
1:R:352:ILE:HG13	1:R:353:GLN:H	1.68	0.57
1:S:229:THR:CG2	1:S:230:GLU:H	2.17	0.57
1:T:184:THR:CG2	1:T:483:PRO:HD2	2.35	0.57
1:T:228:VAL:HG23	1:T:229:THR:H	1.70	0.57
1:T:229:THR:CG2	1:T:230:GLU:H	2.17	0.57
1:Z:426:THR:CG2	1:Z:428:GLN:CD	2.76	0.57
1:b:209:GLU:OE2	1:b:471:PHE:HE1	1.87	0.57
1:b:229:THR:CG2	1:b:230:GLU:H	2.17	0.57
1:d:184:THR:CG2	1:d:483:PRO:HD2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:184:THR:CG2	1:n:483:PRO:HD2	2.35	0.57
1:n:209:GLU:OE2	1:n:471:PHE:HE1	1.87	0.57
1:r:228:VAL:HG23	1:r:229:THR:H	1.70	0.57
1:s:211:ASP:C	1:s:249:LEU:CD1	2.74	0.57
1:v:184:THR:CG2	1:v:483:PRO:HD2	2.35	0.57
1:4:228:VAL:HG23	1:4:229:THR:H	1.70	0.57
1:5:228:VAL:HG23	1:5:229:THR:H	1.70	0.57
1:8:422:THR:HG22	1:K:53:TYR:CG	2.40	0.57
1:C:228:VAL:HG23	1:C:229:THR:H	1.70	0.57
1:D:209:GLU:OE2	1:D:471:PHE:HE1	1.87	0.57
1:E:184:THR:CG2	1:E:483:PRO:HD2	2.35	0.57
1:G:229:THR:CG2	1:G:230:GLU:H	2.17	0.57
1:H:228:VAL:HG23	1:H:229:THR:H	1.70	0.57
1:J:228:VAL:HG23	1:J:229:THR:H	1.70	0.57
1:M:358:ASP:CG	1:M:359:SER:N	2.63	0.57
1:O:228:VAL:HG23	1:O:229:THR:H	1.70	0.57
1:Q:184:THR:CG2	1:Q:483:PRO:HD2	2.35	0.57
1:b:184:THR:CG2	1:b:483:PRO:HD2	2.35	0.57
1:o:184:THR:CG2	1:o:483:PRO:HD2	2.35	0.57
1:p:184:THR:CG2	1:p:483:PRO:HD2	2.35	0.57
1:s:358:ASP:CG	1:s:359:SER:N	2.63	0.57
1:w:184:THR:CG2	1:w:483:PRO:HD2	2.35	0.57
1:y:228:VAL:HG23	1:y:229:THR:H	1.70	0.57
1:z:184:THR:CG2	1:z:483:PRO:HD2	2.35	0.57
1:1:232:VAL:CG1	1:1:234:PRO:HD2	2.35	0.57
1:6:228:VAL:HG23	1:6:229:THR:H	1.70	0.57
1:6:422:THR:HG22	1:L:53:TYR:CD2	2.40	0.57
1:7:184:THR:CG2	1:7:483:PRO:HD2	2.35	0.57
1:7:426:THR:CG2	1:7:428:GLN:CD	2.76	0.57
1:C:184:THR:CG2	1:C:483:PRO:HD2	2.35	0.57
1:G:209:GLU:OE2	1:G:471:PHE:HE1	1.87	0.57
1:Q:232:VAL:CG1	1:Q:234:PRO:HD2	2.35	0.57
1:W:229:THR:CG2	1:W:230:GLU:H	2.17	0.57
1:X:232:VAL:CG1	1:X:234:PRO:HD2	2.35	0.57
1:g:184:THR:CG2	1:g:483:PRO:HD2	2.35	0.57
1:j:209:GLU:OE2	1:j:471:PHE:HE1	1.87	0.57
1:k:211:ASP:C	1:k:249:LEU:CD1	2.74	0.57
1:m:358:ASP:CG	1:m:359:SER:N	2.63	0.57
1:2:231:LEU:HD21	1:2:371:ILE:CG2	2.35	0.56
1:7:228:VAL:HG23	1:7:229:THR:H	1.70	0.56
1:C:211:ASP:C	1:C:249:LEU:CD1	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:228:VAL:HG23	1:D:229:THR:H	1.70	0.56
1:I:231:LEU:HD21	1:I:371:ILE:CG2	2.35	0.56
1:M:352:ILE:HG13	1:M:353:GLN:H	1.68	0.56
1:Q:228:VAL:HG23	1:Q:229:THR:H	1.70	0.56
1:Q:229:THR:CG2	1:Q:230:GLU:H	2.17	0.56
1:n:352:ILE:HG13	1:n:353:GLN:H	1.68	0.56
1:q:184:THR:CG2	1:q:483:PRO:HD2	2.35	0.56
1:r:232:VAL:CG1	1:r:234:PRO:HD2	2.35	0.56
1:s:184:THR:CG2	1:s:483:PRO:HD2	2.35	0.56
1:t:184:THR:CG2	1:t:483:PRO:HD2	2.35	0.56
1:t:228:VAL:HG23	1:t:229:THR:H	1.70	0.56
1:4:352:ILE:HG13	1:4:353:GLN:H	1.68	0.56
1:8:358:ASP:CG	1:8:359:SER:N	2.63	0.56
1:9:184:THR:CG2	1:9:483:PRO:HD2	2.35	0.56
1:C:352:ILE:HG13	1:C:353:GLN:H	1.68	0.56
1:D:229:THR:CG2	1:D:230:GLU:H	2.17	0.56
1:N:231:LEU:HD21	1:N:371:ILE:CG2	2.35	0.56
1:P:426:THR:CG2	1:P:428:GLN:CD	2.76	0.56
1:Q:209:GLU:OE2	1:Q:471:PHE:HE1	1.87	0.56
1:R:53:TYR:CG	1:T:422:THR:HG22	2.40	0.56
1:V:209:GLU:OE2	1:V:471:PHE:HE1	1.87	0.56
1:e:358:ASP:CG	1:e:359:SER:N	2.63	0.56
1:f:228:VAL:HG23	1:f:229:THR:H	1.70	0.56
1:g:426:THR:CG2	1:g:428:GLN:CD	2.76	0.56
1:h:209:GLU:OE2	1:h:471:PHE:HE1	1.87	0.56
1:k:228:VAL:HG23	1:k:229:THR:H	1.70	0.56
1:o:228:VAL:HG23	1:o:229:THR:H	1.70	0.56
1:s:229:THR:CG2	1:s:230:GLU:H	2.17	0.56
1:x:209:GLU:OE2	1:x:471:PHE:HE1	1.87	0.56
1:x:232:VAL:CG1	1:x:234:PRO:HD2	2.35	0.56
1:3:209:GLU:OE2	1:3:471:PHE:HE1	1.87	0.56
1:3:426:THR:CG2	1:3:428:GLN:CD	2.76	0.56
1:5:53:TYR:CD2	1:g:422:THR:HG22	2.39	0.56
1:5:184:THR:CG2	1:5:483:PRO:HD2	2.35	0.56
1:7:352:ILE:HG13	1:7:353:GLN:H	1.68	0.56
1:8:229:THR:CG2	1:8:230:GLU:H	2.17	0.56
1:9:211:ASP:C	1:9:249:LEU:CD1	2.74	0.56
1:9:232:VAL:CG1	1:9:234:PRO:HD2	2.35	0.56
1:9:422:THR:HG22	1:E:53:TYR:CD2	2.39	0.56
1:B:231:LEU:HD21	1:B:371:ILE:CG2	2.35	0.56
1:C:209:GLU:OE2	1:C:471:PHE:HE1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:232:VAL:CG1	1:C:234:PRO:HD2	2.35	0.56
1:D:358:ASP:CG	1:D:359:SER:N	2.63	0.56
1:E:209:GLU:OE2	1:E:471:PHE:HE1	1.87	0.56
1:E:229:THR:CG2	1:E:230:GLU:H	2.17	0.56
1:E:352:ILE:HG13	1:E:353:GLN:H	1.68	0.56
1:F:232:VAL:CG1	1:F:234:PRO:HD2	2.35	0.56
1:G:231:LEU:HD21	1:G:371:ILE:CG2	2.35	0.56
1:G:352:ILE:HG13	1:G:353:GLN:H	1.68	0.56
1:H:422:THR:HG22	1:V:53:TYR:CD2	2.41	0.56
1:I:184:THR:CG2	1:I:483:PRO:HD2	2.35	0.56
1:N:228:VAL:HG23	1:N:229:THR:H	1.70	0.56
1:X:184:THR:CG2	1:X:483:PRO:HD2	2.35	0.56
1:a:228:VAL:HG23	1:a:229:THR:H	1.70	0.56
1:b:358:ASP:CG	1:b:359:SER:N	2.63	0.56
1:c:231:LEU:HD21	1:c:371:ILE:CG2	2.35	0.56
1:e:228:VAL:HG23	1:e:229:THR:H	1.70	0.56
1:f:229:THR:CG2	1:f:230:GLU:H	2.17	0.56
1:f:232:VAL:CG1	1:f:234:PRO:HD2	2.35	0.56
1:j:228:VAL:HG23	1:j:229:THR:H	1.70	0.56
1:l:228:VAL:HG23	1:l:229:THR:H	1.70	0.56
1:p:232:VAL:CG1	1:p:234:PRO:HD2	2.35	0.56
1:u:209:GLU:OE2	1:u:471:PHE:HE1	1.87	0.56
1:u:211:ASP:C	1:u:249:LEU:CD1	2.74	0.56
1:u:231:LEU:HD21	1:u:371:ILE:CG2	2.35	0.56
1:w:211:ASP:C	1:w:249:LEU:CD1	2.74	0.56
1:x:184:THR:CG2	1:x:483:PRO:HD2	2.35	0.56
1:y:184:THR:CG2	1:y:483:PRO:HD2	2.35	0.56
1:z:211:ASP:C	1:z:249:LEU:CD1	2.74	0.56
1:z:352:ILE:HG13	1:z:353:GLN:H	1.68	0.56
1:A:231:LEU:HD21	1:A:371:ILE:CG2	2.35	0.56
1:F:184:THR:CG2	1:F:483:PRO:HD2	2.35	0.56
1:G:358:ASP:CG	1:G:359:SER:N	2.63	0.56
1:I:232:VAL:CG1	1:I:234:PRO:HD2	2.35	0.56
1:V:232:VAL:CG1	1:V:234:PRO:HD2	2.35	0.56
1:W:228:VAL:HG23	1:W:229:THR:H	1.70	0.56
1:X:229:THR:CG2	1:X:230:GLU:H	2.17	0.56
1:e:209:GLU:OE2	1:e:471:PHE:HE1	1.87	0.56
1:h:229:THR:CG2	1:h:230:GLU:H	2.17	0.56
1:l:184:THR:CG2	1:l:483:PRO:HD2	2.35	0.56
1:n:228:VAL:HG23	1:n:229:THR:H	1.70	0.56
1:q:229:THR:CG2	1:q:230:GLU:H	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:232:VAL:CG1	1:q:234:PRO:HD2	2.35	0.56
1:u:228:VAL:HG23	1:u:229:THR:H	1.70	0.56
1:1:231:LEU:HD21	1:1:371:ILE:CG2	2.35	0.56
1:6:232:VAL:CG1	1:6:234:PRO:HD2	2.35	0.56
1:8:232:VAL:CG1	1:8:234:PRO:HD2	2.35	0.56
1:D:232:VAL:CG1	1:D:234:PRO:HD2	2.35	0.56
1:F:228:VAL:HG23	1:F:229:THR:H	1.70	0.56
1:I:229:THR:CG2	1:I:230:GLU:H	2.17	0.56
1:M:229:THR:CG2	1:M:230:GLU:H	2.17	0.56
1:M:232:VAL:CG1	1:M:234:PRO:HD2	2.35	0.56
1:N:53:TYR:CG	1:W:422:THR:HG22	2.41	0.56
1:O:426:THR:CG2	1:O:428:GLN:CD	2.76	0.56
1:R:228:VAL:HG23	1:R:229:THR:H	1.70	0.56
1:b:53:TYR:CD2	1:r:422:THR:HG22	2.41	0.56
1:c:352:ILE:HG13	1:c:353:GLN:H	1.68	0.56
1:g:232:VAL:CG1	1:g:234:PRO:HD2	2.35	0.56
1:q:231:LEU:HD21	1:q:371:ILE:CG2	2.35	0.56
1:s:228:VAL:HG23	1:s:229:THR:H	1.70	0.56
1:t:232:VAL:CG1	1:t:234:PRO:HD2	2.35	0.56
1:w:231:LEU:HD21	1:w:371:ILE:CG2	2.35	0.56
1:z:229:THR:CG2	1:z:230:GLU:H	2.17	0.56
1:4:211:ASP:C	1:4:249:LEU:CD1	2.74	0.56
1:6:184:THR:CG2	1:6:483:PRO:HD2	2.35	0.56
1:9:228:VAL:HG23	1:9:229:THR:H	1.70	0.56
1:G:228:VAL:HG23	1:G:229:THR:H	1.70	0.56
1:K:211:ASP:C	1:K:249:LEU:CD1	2.74	0.56
1:P:228:VAL:HG23	1:P:229:THR:H	1.70	0.56
1:W:184:THR:CG2	1:W:483:PRO:HD2	2.35	0.56
1:Y:232:VAL:CG1	1:Y:234:PRO:HD2	2.35	0.56
1:a:358:ASP:CG	1:a:359:SER:N	2.63	0.56
1:i:232:VAL:CG1	1:i:234:PRO:HD2	2.35	0.56
1:l:232:VAL:CG1	1:l:234:PRO:HD2	2.35	0.56
1:v:232:VAL:CG1	1:v:234:PRO:HD2	2.35	0.56
1:2:53:TYR:CD2	1:e:422:THR:HG22	2.41	0.56
1:H:184:THR:CG2	1:H:483:PRO:HD2	2.35	0.56
1:T:232:VAL:CG1	1:T:234:PRO:HD2	2.35	0.56
1:h:232:VAL:CG1	1:h:234:PRO:HD2	2.35	0.56
1:u:229:THR:CG2	1:u:230:GLU:H	2.17	0.56
1:w:228:VAL:HG23	1:w:229:THR:H	1.70	0.56
1:y:358:ASP:CG	1:y:359:SER:N	2.63	0.56
1:3:232:VAL:CG1	1:3:234:PRO:HD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:211:ASP:C	1:6:249:LEU:CD1	2.74	0.56
1:A:422:THR:HG22	1:t:53:TYR:CG	2.41	0.56
1:O:231:LEU:HD21	1:O:371:ILE:CG2	2.35	0.56
1:T:211:ASP:C	1:T:249:LEU:CD1	2.74	0.56
1:X:145:VAL:CG1	1:X:201:VAL:CG1	2.84	0.56
1:X:228:VAL:HG23	1:X:229:THR:H	1.70	0.56
1:Z:232:VAL:CG1	1:Z:234:PRO:HD2	2.35	0.56
1:g:145:VAL:CG1	1:g:201:VAL:CG1	2.84	0.56
1:g:209:GLU:OE2	1:g:471:PHE:HE1	1.87	0.56
1:g:228:VAL:HG23	1:g:229:THR:H	1.70	0.56
1:m:229:THR:CG2	1:m:230:GLU:H	2.17	0.56
1:n:232:VAL:CG1	1:n:234:PRO:HD2	2.35	0.56
1:o:358:ASP:CG	1:o:359:SER:N	2.63	0.56
1:r:145:VAL:CG1	1:r:201:VAL:CG1	2.84	0.56
1:w:229:THR:CG2	1:w:230:GLU:H	2.17	0.56
1:z:232:VAL:CG1	1:z:234:PRO:HD2	2.35	0.56
1:1:228:VAL:HG23	1:1:229:THR:H	1.70	0.56
1:3:145:VAL:CG1	1:3:201:VAL:CG1	2.84	0.56
1:4:145:VAL:CG1	1:4:201:VAL:CG1	2.84	0.56
1:5:358:ASP:CG	1:5:359:SER:N	2.63	0.56
1:H:232:VAL:CG1	1:H:234:PRO:HD2	2.35	0.56
1:R:184:THR:CG2	1:R:483:PRO:HD2	2.35	0.56
1:R:358:ASP:CG	1:R:359:SER:N	2.63	0.56
1:S:228:VAL:HG23	1:S:229:THR:H	1.70	0.56
1:X:358:ASP:CG	1:X:359:SER:N	2.63	0.56
1:b:145:VAL:CG1	1:b:201:VAL:CG1	2.84	0.56
1:c:228:VAL:HG23	1:c:229:THR:H	1.70	0.56
1:d:145:VAL:CG1	1:d:201:VAL:CG1	2.84	0.56
1:e:229:THR:CG2	1:e:230:GLU:H	2.17	0.56
1:g:352:ILE:HG13	1:g:353:GLN:H	1.68	0.56
1:j:145:VAL:CG1	1:j:201:VAL:CG1	2.84	0.56
1:k:184:THR:CG2	1:k:483:PRO:HD2	2.35	0.56
1:o:145:VAL:CG1	1:o:201:VAL:CG1	2.84	0.56
1:s:231:LEU:HD21	1:s:371:ILE:CG2	2.35	0.56
1:t:231:LEU:HD21	1:t:371:ILE:CG2	2.35	0.56
1:x:231:LEU:HD21	1:x:371:ILE:CG2	2.35	0.56
1:1:145:VAL:CG1	1:1:201:VAL:CG1	2.84	0.56
1:5:422:THR:HG22	1:o:53:TYR:CD2	2.41	0.56
1:7:232:VAL:CG1	1:7:234:PRO:HD2	2.35	0.56
1:8:228:VAL:HG23	1:8:229:THR:H	1.70	0.56
1:8:231:LEU:HD21	1:8:371:ILE:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:228:VAL:HG23	1:E:229:THR:H	1.70	0.56
1:H:145:VAL:CG1	1:H:201:VAL:CG1	2.84	0.56
1:I:358:ASP:CG	1:I:359:SER:N	2.63	0.56
1:N:358:ASP:CG	1:N:359:SER:N	2.63	0.56
1:O:232:VAL:CG1	1:O:234:PRO:HD2	2.35	0.56
1:P:229:THR:CG2	1:P:230:GLU:N	2.69	0.56
1:T:229:THR:CG2	1:T:230:GLU:N	2.69	0.56
1:h:145:VAL:CG1	1:h:201:VAL:CG1	2.84	0.56
1:i:228:VAL:HG23	1:i:229:THR:H	1.70	0.56
1:i:231:LEU:HD21	1:i:371:ILE:CG2	2.35	0.56
1:j:229:THR:CG2	1:j:230:GLU:H	2.18	0.56
1:n:145:VAL:CG1	1:n:201:VAL:CG1	2.84	0.56
1:q:229:THR:CG2	1:q:230:GLU:N	2.69	0.56
1:u:229:THR:CG2	1:u:230:GLU:N	2.69	0.56
1:w:229:THR:CG2	1:w:230:GLU:N	2.69	0.56
1:z:145:VAL:CG1	1:z:201:VAL:CG1	2.84	0.56
1:2:232:VAL:CG1	1:2:234:PRO:HD2	2.35	0.55
1:4:231:LEU:HD21	1:4:371:ILE:CG2	2.35	0.55
1:C:451:GLN:HB3	1:E:450:GLU:HG2	1.88	0.55
1:D:229:THR:CG2	1:D:230:GLU:N	2.69	0.55
1:E:232:VAL:CG1	1:E:234:PRO:HD2	2.35	0.55
1:F:145:VAL:CG1	1:F:201:VAL:CG1	2.84	0.55
1:L:358:ASP:CG	1:L:359:SER:N	2.63	0.55
1:P:232:VAL:CG1	1:P:234:PRO:HD2	2.35	0.55
1:S:145:VAL:CG1	1:S:201:VAL:CG1	2.84	0.55
1:S:184:THR:CG2	1:S:483:PRO:HD2	2.35	0.55
1:S:232:VAL:CG1	1:S:234:PRO:HD2	2.35	0.55
1:a:184:THR:CG2	1:a:483:PRO:HD2	2.35	0.55
1:c:145:VAL:CG1	1:c:201:VAL:CG1	2.84	0.55
1:l:145:VAL:CG1	1:l:201:VAL:CG1	2.84	0.55
1:m:145:VAL:CG1	1:m:201:VAL:CG1	2.84	0.55
1:m:229:THR:CG2	1:m:230:GLU:N	2.69	0.55
1:o:232:VAL:CG1	1:o:234:PRO:HD2	2.35	0.55
1:p:229:THR:CG2	1:p:230:GLU:H	2.18	0.55
1:u:145:VAL:CG1	1:u:201:VAL:CG1	2.84	0.55
1:w:232:VAL:CG1	1:w:234:PRO:HD2	2.35	0.55
1:1:53:TYR:CD2	1:S:422:THR:HG22	2.41	0.55
1:2:145:VAL:CG1	1:2:201:VAL:CG1	2.84	0.55
1:2:358:ASP:CG	1:2:359:SER:N	2.63	0.55
1:4:53:TYR:CD2	1:N:422:THR:HG22	2.41	0.55
1:4:232:VAL:CG1	1:4:234:PRO:HD2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:229:THR:CG2	1:5:230:GLU:N	2.69	0.55
1:B:232:VAL:CG1	1:B:234:PRO:HD2	2.35	0.55
1:G:451:GLN:HB3	1:u:450:GLU:HG2	1.87	0.55
1:I:228:VAL:HG23	1:I:229:THR:H	1.70	0.55
1:I:229:THR:CG2	1:I:230:GLU:N	2.69	0.55
1:J:145:VAL:CG1	1:J:201:VAL:CG1	2.84	0.55
1:K:228:VAL:HG23	1:K:229:THR:H	1.70	0.55
1:L:228:VAL:HG23	1:L:229:THR:H	1.70	0.55
1:M:229:THR:CG2	1:M:230:GLU:N	2.69	0.55
1:P:145:VAL:CG1	1:P:201:VAL:CG1	2.84	0.55
1:Q:145:VAL:CG1	1:Q:201:VAL:CG1	2.84	0.55
1:S:358:ASP:CG	1:S:359:SER:N	2.63	0.55
1:V:231:LEU:HD21	1:V:371:ILE:CG2	2.35	0.55
1:W:232:VAL:CG1	1:W:234:PRO:HD2	2.35	0.55
1:Z:229:THR:CG2	1:Z:230:GLU:N	2.69	0.55
1:i:145:VAL:CG1	1:i:201:VAL:CG1	2.84	0.55
1:i:229:THR:CG2	1:i:230:GLU:N	2.69	0.55
1:n:229:THR:CG2	1:n:230:GLU:N	2.70	0.55
1:p:358:ASP:CG	1:p:359:SER:N	2.63	0.55
1:z:228:VAL:HG23	1:z:229:THR:H	1.70	0.55
1:7:145:VAL:CG1	1:7:201:VAL:CG1	2.84	0.55
1:D:145:VAL:CG1	1:D:201:VAL:CG1	2.84	0.55
1:E:145:VAL:CG1	1:E:201:VAL:CG1	2.84	0.55
1:J:232:VAL:CG1	1:J:234:PRO:HD2	2.35	0.55
1:M:145:VAL:CG1	1:M:201:VAL:CG1	2.84	0.55
1:N:229:THR:CG2	1:N:230:GLU:H	2.17	0.55
1:P:231:LEU:HD21	1:P:371:ILE:CG2	2.35	0.55
1:Q:229:THR:CG2	1:Q:230:GLU:N	2.69	0.55
1:Q:358:ASP:CG	1:Q:359:SER:N	2.63	0.55
1:Y:231:LEU:HD21	1:Y:371:ILE:CG2	2.35	0.55
1:a:145:VAL:CG1	1:a:201:VAL:CG1	2.84	0.55
1:h:358:ASP:CG	1:h:359:SER:N	2.63	0.55
1:l:229:THR:CG2	1:l:230:GLU:H	2.17	0.55
1:v:228:VAL:HG23	1:v:229:THR:H	1.70	0.55
1:x:229:THR:CG2	1:x:230:GLU:H	2.17	0.55
1:y:231:LEU:HD21	1:y:371:ILE:CG2	2.35	0.55
1:B:228:VAL:HG23	1:B:229:THR:H	1.70	0.55
1:C:145:VAL:CG1	1:C:201:VAL:CG1	2.84	0.55
1:O:229:THR:CG2	1:O:230:GLU:H	2.17	0.55
1:W:145:VAL:CG1	1:W:201:VAL:CG1	2.84	0.55
1:a:232:VAL:CG1	1:a:234:PRO:HD2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:53:TYR:CD2	1:s:422:THR:HG22	2.41	0.55
1:h:229:THR:CG2	1:h:230:GLU:N	2.69	0.55
1:k:145:VAL:CG1	1:k:201:VAL:CG1	2.84	0.55
1:k:231:LEU:HD21	1:k:371:ILE:CG2	2.35	0.55
1:p:145:VAL:CG1	1:p:201:VAL:CG1	2.84	0.55
1:u:232:VAL:CG1	1:u:234:PRO:HD2	2.35	0.55
1:w:358:ASP:CG	1:w:359:SER:N	2.63	0.55
1:y:145:VAL:CG1	1:y:201:VAL:CG1	2.84	0.55
1:y:232:VAL:CG1	1:y:234:PRO:HD2	2.35	0.55
1:6:145:VAL:CG1	1:6:201:VAL:CG1	2.84	0.55
1:6:229:THR:CG2	1:6:230:GLU:N	2.69	0.55
1:9:231:LEU:HD21	1:9:371:ILE:CG2	2.35	0.55
1:K:145:VAL:CG1	1:K:201:VAL:CG1	2.84	0.55
1:K:232:VAL:CG1	1:K:234:PRO:HD2	2.35	0.55
1:M:228:VAL:HG23	1:M:229:THR:H	1.70	0.55
1:N:229:THR:CG2	1:N:230:GLU:N	2.69	0.55
1:N:232:VAL:CG1	1:N:234:PRO:HD2	2.35	0.55
1:R:232:VAL:CG1	1:R:234:PRO:HD2	2.35	0.55
1:V:145:VAL:CG1	1:V:201:VAL:CG1	2.84	0.55
1:X:229:THR:CG2	1:X:230:GLU:N	2.70	0.55
1:Z:231:LEU:HD21	1:Z:371:ILE:CG2	2.35	0.55
1:b:229:THR:CG2	1:b:230:GLU:N	2.69	0.55
1:b:232:VAL:CG1	1:b:234:PRO:HD2	2.35	0.55
1:g:229:THR:CG2	1:g:230:GLU:N	2.69	0.55
1:h:228:VAL:HG23	1:h:229:THR:H	1.70	0.55
1:v:229:THR:CG2	1:v:230:GLU:N	2.69	0.55
1:z:211:ASP:O	1:z:249:LEU:HD11	2.02	0.55
1:1:358:ASP:CG	1:1:359:SER:N	2.63	0.55
1:7:231:LEU:HD21	1:7:371:ILE:CG2	2.35	0.55
1:9:145:VAL:CG1	1:9:201:VAL:CG1	2.84	0.55
1:B:422:THR:HG22	1:x:53:TYR:CG	2.42	0.55
1:F:231:LEU:HD21	1:F:371:ILE:CG2	2.35	0.55
1:G:232:VAL:CG1	1:G:234:PRO:HD2	2.35	0.55
1:Q:231:LEU:HD21	1:Q:371:ILE:CG2	2.35	0.55
1:X:53:TYR:CG	1:w:422:THR:HG22	2.42	0.55
1:X:231:LEU:HD21	1:X:371:ILE:CG2	2.35	0.55
1:Z:228:VAL:HG23	1:Z:229:THR:H	1.70	0.55
1:a:231:LEU:HD21	1:a:371:ILE:CG2	2.35	0.55
1:e:211:ASP:C	1:e:249:LEU:CD1	2.74	0.55
1:k:232:VAL:CG1	1:k:234:PRO:HD2	2.35	0.55
1:s:145:VAL:CG1	1:s:201:VAL:CG1	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:232:VAL:CG1	1:s:234:PRO:HD2	2.35	0.55
1:C:231:LEU:HD21	1:C:371:ILE:CG2	2.35	0.55
1:C:358:ASP:CG	1:C:359:SER:N	2.63	0.55
1:G:145:VAL:CG1	1:G:201:VAL:CG1	2.84	0.55
1:I:145:VAL:CG1	1:I:201:VAL:CG1	2.84	0.55
1:J:229:THR:CG2	1:J:230:GLU:H	2.17	0.55
1:L:231:LEU:HD21	1:L:371:ILE:CG2	2.35	0.55
1:L:232:VAL:CG1	1:L:234:PRO:HD2	2.35	0.55
1:N:145:VAL:CG1	1:N:201:VAL:CG1	2.84	0.55
1:P:53:TYR:CD2	1:z:422:THR:HG22	2.41	0.55
1:R:229:THR:CG2	1:R:230:GLU:N	2.70	0.55
1:S:229:THR:CG2	1:S:230:GLU:N	2.69	0.55
1:W:229:THR:CG2	1:W:230:GLU:N	2.69	0.55
1:d:229:THR:CG2	1:d:230:GLU:N	2.69	0.55
1:i:358:ASP:CG	1:i:359:SER:N	2.63	0.55
1:j:231:LEU:HD21	1:j:371:ILE:CG2	2.35	0.55
1:j:232:VAL:CG1	1:j:234:PRO:HD2	2.35	0.55
1:m:232:VAL:CG1	1:m:234:PRO:HD2	2.35	0.55
1:w:145:VAL:CG1	1:w:201:VAL:CG1	2.84	0.55
1:7:229:THR:CG2	1:7:230:GLU:N	2.69	0.55
1:A:145:VAL:CG1	1:A:201:VAL:CG1	2.84	0.55
1:K:231:LEU:HD21	1:K:371:ILE:CG2	2.35	0.55
1:L:211:ASP:O	1:L:249:LEU:HD11	2.02	0.55
1:R:145:VAL:CG1	1:R:201:VAL:CG1	2.84	0.55
1:T:145:VAL:CG1	1:T:201:VAL:CG1	2.84	0.55
1:T:358:ASP:CG	1:T:359:SER:N	2.63	0.55
1:e:145:VAL:CG1	1:e:201:VAL:CG1	2.84	0.55
1:j:358:ASP:CG	1:j:359:SER:N	2.63	0.55
1:q:228:VAL:HG23	1:q:229:THR:H	1.70	0.55
1:v:358:ASP:CG	1:v:359:SER:N	2.63	0.55
1:x:229:THR:CG2	1:x:230:GLU:N	2.69	0.55
1:3:229:THR:CG2	1:3:230:GLU:H	2.17	0.55
1:3:231:LEU:HD21	1:3:371:ILE:CG2	2.35	0.55
1:3:358:ASP:CG	1:3:359:SER:N	2.63	0.55
1:5:232:VAL:CG1	1:5:234:PRO:HD2	2.35	0.55
1:8:145:VAL:CG1	1:8:201:VAL:CG1	2.84	0.55
1:A:53:TYR:CD2	1:Q:422:THR:HG22	2.42	0.55
1:E:229:THR:CG2	1:E:230:GLU:N	2.69	0.55
1:G:211:ASP:C	1:G:249:LEU:CD1	2.74	0.55
1:G:229:THR:CG2	1:G:230:GLU:N	2.69	0.55
1:I:53:TYR:CG	1:Z:422:THR:HG22	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:229:THR:CG2	1:K:230:GLU:H	2.18	0.55
1:L:229:THR:CG2	1:L:230:GLU:N	2.69	0.55
1:P:358:ASP:CG	1:P:359:SER:N	2.63	0.55
1:f:229:THR:CG2	1:f:230:GLU:N	2.69	0.55
1:l:229:THR:CG2	1:l:230:GLU:N	2.69	0.55
1:v:145:VAL:CG1	1:v:201:VAL:CG1	2.84	0.55
1:y:229:THR:CG2	1:y:230:GLU:N	2.70	0.55
1:F:229:THR:CG2	1:F:230:GLU:H	2.17	0.55
1:J:229:THR:CG2	1:J:230:GLU:N	2.69	0.55
1:Z:145:VAL:CG1	1:Z:201:VAL:CG1	2.84	0.55
1:Z:229:THR:CG2	1:Z:230:GLU:H	2.17	0.55
1:p:229:THR:CG2	1:p:230:GLU:N	2.69	0.55
1:t:358:ASP:CG	1:t:359:SER:N	2.63	0.55
1:5:145:VAL:CG1	1:5:201:VAL:CG1	2.84	0.54
1:9:229:THR:CG2	1:9:230:GLU:N	2.69	0.54
1:Y:358:ASP:CG	1:Y:359:SER:N	2.63	0.54
1:c:229:THR:CG2	1:c:230:GLU:N	2.69	0.54
1:c:232:VAL:CG1	1:c:234:PRO:HD2	2.35	0.54
1:i:53:TYR:CD2	1:v:422:THR:HG22	2.42	0.54
1:m:231:LEU:HD21	1:m:371:ILE:CG2	2.35	0.54
1:3:229:THR:CG2	1:3:230:GLU:N	2.69	0.54
1:A:229:THR:CG2	1:A:230:GLU:N	2.69	0.54
1:B:229:THR:CG2	1:B:230:GLU:N	2.69	0.54
1:L:145:VAL:CG1	1:L:201:VAL:CG1	2.84	0.54
1:O:211:ASP:C	1:O:249:LEU:CD1	2.74	0.54
1:a:211:ASP:C	1:a:249:LEU:CD1	2.74	0.54
1:a:229:THR:CG2	1:a:230:GLU:N	2.69	0.54
1:q:145:VAL:CG1	1:q:201:VAL:CG1	2.84	0.54
1:r:229:THR:CG2	1:r:230:GLU:N	2.69	0.54
1:r:358:ASP:CG	1:r:359:SER:N	2.63	0.54
1:x:145:VAL:CG1	1:x:201:VAL:CG1	2.84	0.54
1:2:229:THR:CG2	1:2:230:GLU:H	2.17	0.54
1:2:422:THR:HG22	1:F:53:TYR:CD2	2.42	0.54
1:E:211:ASP:O	1:E:249:LEU:HD11	2.02	0.54
1:H:231:LEU:HD21	1:H:371:ILE:CG2	2.35	0.54
1:O:229:THR:CG2	1:O:230:GLU:N	2.69	0.54
1:V:229:THR:CG2	1:V:230:GLU:N	2.69	0.54
1:c:358:ASP:CG	1:c:359:SER:N	2.63	0.54
1:d:232:VAL:CG1	1:d:234:PRO:HD2	2.35	0.54
1:e:232:VAL:CG1	1:e:234:PRO:HD2	2.35	0.54
1:t:229:THR:CG2	1:t:230:GLU:H	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:229:THR:CG2	1:y:230:GLU:H	2.18	0.54
1:9:229:THR:CG2	1:9:230:GLU:H	2.17	0.54
1:9:358:ASP:CG	1:9:359:SER:N	2.63	0.54
1:B:145:VAL:CG1	1:B:201:VAL:CG1	2.84	0.54
1:J:53:TYR:CD2	1:o:422:THR:HG22	2.42	0.54
1:O:145:VAL:CG1	1:O:201:VAL:CG1	2.84	0.54
1:Y:145:VAL:CG1	1:Y:201:VAL:CG1	2.84	0.54
1:e:231:LEU:HD21	1:e:371:ILE:CG2	2.35	0.54
1:o:229:THR:CG2	1:o:230:GLU:N	2.70	0.54
1:t:145:VAL:CG1	1:t:201:VAL:CG1	2.84	0.54
1:1:211:ASP:C	1:1:249:LEU:CD1	2.74	0.54
1:7:229:THR:CG2	1:7:230:GLU:H	2.17	0.54
1:J:211:ASP:O	1:J:249:LEU:HD11	2.02	0.54
1:R:231:LEU:HD21	1:R:371:ILE:CG2	2.35	0.54
1:W:451:GLN:HB3	1:q:450:GLU:HG2	1.89	0.54
1:b:53:TYR:CG	1:r:422:THR:HG22	2.42	0.54
1:f:145:VAL:CG1	1:f:201:VAL:CG1	2.84	0.54
1:f:231:LEU:HD21	1:f:371:ILE:CG2	2.35	0.54
1:g:211:ASP:C	1:g:249:LEU:CD1	2.74	0.54
1:B:57:SER:OG	1:h:57:SER:N	2.41	0.54
1:D:231:LEU:HD21	1:D:371:ILE:CG2	2.35	0.54
1:K:229:THR:CG2	1:K:230:GLU:N	2.70	0.54
1:d:358:ASP:CG	1:d:359:SER:N	2.63	0.54
1:u:358:ASP:N	1:u:362:ARG:O	2.38	0.54
1:x:228:VAL:HG23	1:x:229:THR:H	1.70	0.54
1:5:231:LEU:HD21	1:5:371:ILE:CG2	2.35	0.54
1:A:232:VAL:CG1	1:A:234:PRO:HD2	2.35	0.54
1:H:211:ASP:C	1:H:249:LEU:CD1	2.74	0.54
1:M:211:ASP:OD2	1:M:365:ASN:HB2	2.08	0.54
1:O:358:ASP:CG	1:O:359:SER:N	2.63	0.54
1:W:231:LEU:HD21	1:W:371:ILE:CG2	2.35	0.54
1:d:231:LEU:HD21	1:d:371:ILE:CG2	2.35	0.54
1:r:229:THR:CG2	1:r:230:GLU:H	2.17	0.54
1:1:229:THR:CG2	1:1:230:GLU:H	2.17	0.54
1:9:53:TYR:CD2	1:n:422:THR:HG22	2.42	0.54
1:H:229:THR:CG2	1:H:230:GLU:H	2.17	0.54
1:J:211:ASP:OD2	1:J:365:ASN:HB2	2.08	0.54
1:Z:237:TYR:CE2	1:Z:292:LEU:HD21	2.43	0.54
1:b:231:LEU:CD2	1:b:371:ILE:HG23	2.37	0.54
1:g:211:ASP:OD2	1:g:365:ASN:HB2	2.08	0.54
1:6:53:TYR:CD2	1:M:422:THR:HG22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:211:ASP:OD2	1:6:365:ASN:HB2	2.08	0.54
1:8:237:TYR:CE2	1:8:292:LEU:HD21	2.43	0.54
1:M:231:LEU:CD2	1:M:371:ILE:HG23	2.37	0.54
1:c:231:LEU:CD2	1:c:371:ILE:HG23	2.37	0.54
1:h:211:ASP:C	1:h:249:LEU:CD1	2.74	0.54
1:h:237:TYR:CE2	1:h:292:LEU:HD21	2.43	0.54
1:l:211:ASP:OD2	1:l:365:ASN:HB2	2.08	0.54
1:l:237:TYR:CE2	1:l:292:LEU:HD21	2.43	0.54
1:z:358:ASP:CG	1:z:359:SER:N	2.63	0.54
1:2:211:ASP:OD2	1:2:365:ASN:HB2	2.08	0.54
1:2:237:TYR:CE2	1:2:292:LEU:HD21	2.43	0.54
1:3:231:LEU:CD2	1:3:371:ILE:HG23	2.37	0.54
1:5:237:TYR:CE2	1:5:292:LEU:HD21	2.43	0.54
1:8:451:GLN:HB3	1:X:450:GLU:HG2	1.88	0.54
1:L:450:GLU:HG2	1:r:451:GLN:HB3	1.90	0.54
1:P:211:ASP:OD2	1:P:365:ASN:HB2	2.08	0.54
1:P:229:THR:CG2	1:P:230:GLU:H	2.17	0.54
1:f:211:ASP:OD2	1:f:365:ASN:HB2	2.08	0.54
1:f:237:TYR:CE2	1:f:292:LEU:HD21	2.43	0.54
1:k:211:ASP:OD2	1:k:365:ASN:HB2	2.08	0.54
1:n:231:LEU:HD21	1:n:371:ILE:CG2	2.35	0.54
1:p:237:TYR:CE2	1:p:292:LEU:HD21	2.43	0.54
1:q:237:TYR:CE2	1:q:292:LEU:HD21	2.43	0.54
1:u:211:ASP:OD2	1:u:365:ASN:HB2	2.08	0.54
1:w:211:ASP:OD2	1:w:365:ASN:HB2	2.08	0.54
1:5:358:ASP:N	1:5:362:ARG:O	2.38	0.53
1:9:211:ASP:OD2	1:9:365:ASN:HB2	2.08	0.53
1:H:211:ASP:OD2	1:H:365:ASN:HB2	2.08	0.53
1:I:422:THR:HG22	1:s:53:TYR:CG	2.43	0.53
1:K:211:ASP:OD2	1:K:365:ASN:HB2	2.08	0.53
1:Q:237:TYR:CE2	1:Q:292:LEU:HD21	2.43	0.53
1:T:231:LEU:HD21	1:T:371:ILE:CG2	2.35	0.53
1:c:237:TYR:CE2	1:c:292:LEU:HD21	2.43	0.53
1:f:426:THR:HG23	1:h:96:ASP:HB2	1.90	0.53
1:k:422:THR:HG22	1:w:53:TYR:CD2	2.42	0.53
1:l:231:LEU:HD21	1:l:371:ILE:CG2	2.35	0.53
1:3:422:THR:HG22	1:O:53:TYR:CD2	2.43	0.53
1:7:211:ASP:C	1:7:249:LEU:CD1	2.74	0.53
1:F:358:ASP:CG	1:F:359:SER:N	2.63	0.53
1:S:211:ASP:OD2	1:S:365:ASN:HB2	2.08	0.53
1:W:211:ASP:OD2	1:W:365:ASN:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:237:TYR:CE2	1:b:292:LEU:HD21	2.43	0.53
1:d:237:TYR:CE2	1:d:292:LEU:HD21	2.43	0.53
1:j:211:ASP:OD2	1:j:365:ASN:HB2	2.08	0.53
1:q:358:ASP:CG	1:q:359:SER:N	2.63	0.53
1:t:211:ASP:OD2	1:t:365:ASN:HB2	2.08	0.53
1:1:211:ASP:OD2	1:1:365:ASN:HB2	2.08	0.53
1:2:484:THR:HG23	1:2:485:ILE:HG12	1.91	0.53
1:8:450:GLU:OE1	1:X:450:GLU:HG3	2.08	0.53
1:H:237:TYR:CE2	1:H:292:LEU:HD21	2.43	0.53
1:I:237:TYR:CE2	1:I:292:LEU:HD21	2.43	0.53
1:O:231:LEU:CD2	1:O:371:ILE:HG23	2.37	0.53
1:R:211:ASP:OD2	1:R:365:ASN:HB2	2.08	0.53
1:R:237:TYR:CE2	1:R:292:LEU:HD21	2.43	0.53
1:V:358:ASP:N	1:V:362:ARG:O	2.38	0.53
1:Y:211:ASP:OD2	1:Y:365:ASN:HB2	2.08	0.53
1:b:231:LEU:HD21	1:b:371:ILE:CG2	2.35	0.53
1:e:211:ASP:OD2	1:e:365:ASN:HB2	2.08	0.53
1:e:237:TYR:CE2	1:e:292:LEU:HD21	2.43	0.53
1:h:231:LEU:HD21	1:h:371:ILE:CG2	2.35	0.53
1:z:237:TYR:CE2	1:z:292:LEU:HD21	2.43	0.53
1:1:422:THR:HG22	1:u:53:TYR:CG	2.43	0.53
1:3:484:THR:HG23	1:3:485:ILE:HG12	1.91	0.53
1:4:237:TYR:CE2	1:4:292:LEU:HD21	2.43	0.53
1:5:211:ASP:OD2	1:5:365:ASN:HB2	2.08	0.53
1:9:237:TYR:CE2	1:9:292:LEU:HD21	2.43	0.53
1:B:237:TYR:CE2	1:B:292:LEU:HD21	2.43	0.53
1:B:484:THR:HG23	1:B:485:ILE:HG12	1.91	0.53
1:F:211:ASP:OD2	1:F:365:ASN:HB2	2.08	0.53
1:I:484:THR:HG23	1:I:485:ILE:HG12	1.91	0.53
1:J:237:TYR:CE2	1:J:292:LEU:HD21	2.43	0.53
1:N:237:TYR:CE2	1:N:292:LEU:HD21	2.43	0.53
1:P:450:GLU:CG	1:d:450:GLU:OE1	2.57	0.53
1:V:484:THR:HG23	1:V:485:ILE:HG12	1.91	0.53
1:X:237:TYR:CE2	1:X:292:LEU:HD21	2.43	0.53
1:Z:211:ASP:OD2	1:Z:365:ASN:HB2	2.08	0.53
1:e:229:THR:CG2	1:e:230:GLU:N	2.69	0.53
1:l:484:THR:HG23	1:l:485:ILE:HG12	1.91	0.53
1:m:211:ASP:OD2	1:m:365:ASN:HB2	2.08	0.53
1:n:211:ASP:OD2	1:n:365:ASN:HB2	2.08	0.53
1:q:484:THR:HG23	1:q:485:ILE:HG12	1.91	0.53
1:6:422:THR:HG22	1:L:53:TYR:CG	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:231:LEU:CD2	1:B:371:ILE:HG23	2.37	0.53
1:B:451:GLN:HB3	1:f:450:GLU:HG2	1.91	0.53
1:D:237:TYR:CE2	1:D:292:LEU:HD21	2.43	0.53
1:F:231:LEU:CD2	1:F:371:ILE:HG23	2.37	0.53
1:N:231:LEU:CD2	1:N:371:ILE:HG23	2.37	0.53
1:O:237:TYR:CE2	1:O:292:LEU:HD21	2.43	0.53
1:V:422:THR:HG22	1:e:53:TYR:CD2	2.44	0.53
1:W:358:ASP:CG	1:W:359:SER:N	2.63	0.53
1:W:484:THR:HG23	1:W:485:ILE:HG12	1.91	0.53
1:Z:53:TYR:CD2	1:m:422:THR:HG22	2.44	0.53
1:a:237:TYR:CE2	1:a:292:LEU:HD21	2.43	0.53
1:d:211:ASP:C	1:d:249:LEU:CD1	2.74	0.53
1:i:211:ASP:C	1:i:249:LEU:CD1	2.74	0.53
1:i:453:VAL:O	1:i:453:VAL:HG12	2.09	0.53
1:k:237:TYR:CE2	1:k:292:LEU:HD21	2.43	0.53
1:o:211:ASP:OD2	1:o:365:ASN:HB2	2.08	0.53
1:p:484:THR:HG23	1:p:485:ILE:HG12	1.91	0.53
1:r:237:TYR:CE2	1:r:292:LEU:HD21	2.43	0.53
1:s:211:ASP:OD2	1:s:365:ASN:HB2	2.08	0.53
1:w:484:THR:HG23	1:w:485:ILE:HG12	1.91	0.53
1:y:211:ASP:OD2	1:y:365:ASN:HB2	2.08	0.53
1:3:211:ASP:OD2	1:3:365:ASN:HB2	2.08	0.53
1:3:237:TYR:CE2	1:3:292:LEU:HD21	2.43	0.53
1:7:211:ASP:OD2	1:7:365:ASN:HB2	2.08	0.53
1:7:237:TYR:CE2	1:7:292:LEU:HD21	2.43	0.53
1:A:211:ASP:OD2	1:A:365:ASN:HB2	2.08	0.53
1:D:211:ASP:OD2	1:D:365:ASN:HB2	2.08	0.53
1:G:211:ASP:OD2	1:G:365:ASN:HB2	2.08	0.53
1:O:422:THR:HG22	1:z:53:TYR:CD2	2.44	0.53
1:P:237:TYR:CE2	1:P:292:LEU:HD21	2.43	0.53
1:S:231:LEU:HD21	1:S:371:ILE:CG2	2.35	0.53
1:S:231:LEU:CD2	1:S:371:ILE:HG23	2.37	0.53
1:V:211:ASP:OD2	1:V:365:ASN:HB2	2.08	0.53
1:W:237:TYR:CE2	1:W:292:LEU:HD21	2.43	0.53
1:a:211:ASP:OD2	1:a:365:ASN:HB2	2.08	0.53
1:b:484:THR:HG23	1:b:485:ILE:HG12	1.91	0.53
1:d:211:ASP:OD2	1:d:365:ASN:HB2	2.08	0.53
1:n:53:TYR:CG	1:y:422:THR:HG22	2.44	0.53
1:n:358:ASP:N	1:n:362:ARG:O	2.38	0.53
1:w:237:TYR:CE2	1:w:292:LEU:HD21	2.43	0.53
1:y:211:ASP:O	1:y:249:LEU:HD11	2.02	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:237:TYR:CE2	1:y:292:LEU:HD21	2.43	0.53
1:4:484:THR:HG23	1:4:485:ILE:HG12	1.91	0.53
1:B:358:ASP:N	1:B:362:ARG:O	2.38	0.53
1:C:231:LEU:CD2	1:C:371:ILE:HG23	2.37	0.53
1:C:237:TYR:CE2	1:C:292:LEU:HD21	2.43	0.53
1:D:422:THR:HG22	1:q:53:TYR:CD2	2.43	0.53
1:F:422:THR:HG22	1:H:53:TYR:CD2	2.44	0.53
1:J:231:LEU:CD2	1:J:371:ILE:HG23	2.37	0.53
1:J:358:ASP:CG	1:J:359:SER:N	2.63	0.53
1:K:453:VAL:O	1:K:453:VAL:HG12	2.09	0.53
1:M:358:ASP:N	1:M:362:ARG:O	2.38	0.53
1:O:211:ASP:OD2	1:O:365:ASN:HB2	2.08	0.53
1:T:453:VAL:O	1:T:453:VAL:HG12	2.09	0.53
1:a:358:ASP:N	1:a:362:ARG:O	2.38	0.53
1:a:453:VAL:O	1:a:453:VAL:HG12	2.09	0.53
1:e:453:VAL:O	1:e:453:VAL:HG12	2.09	0.53
1:g:484:THR:HG23	1:g:485:ILE:HG12	1.91	0.53
1:i:237:TYR:CE2	1:i:292:LEU:HD21	2.43	0.53
1:m:484:THR:HG23	1:m:485:ILE:HG12	1.91	0.53
1:o:484:THR:HG23	1:o:485:ILE:HG12	1.91	0.53
1:x:231:LEU:CD2	1:x:371:ILE:HG23	2.37	0.53
1:z:229:THR:CG2	1:z:230:GLU:N	2.69	0.53
1:6:237:TYR:CE2	1:6:292:LEU:HD21	2.43	0.53
1:B:211:ASP:OD2	1:B:365:ASN:HB2	2.08	0.53
1:E:211:ASP:OD2	1:E:365:ASN:HB2	2.08	0.53
1:I:211:ASP:OD2	1:I:365:ASN:HB2	2.08	0.53
1:N:484:THR:HG23	1:N:485:ILE:HG12	1.91	0.53
1:R:450:GLU:CG	1:v:450:GLU:OE1	2.57	0.53
1:S:237:TYR:CE2	1:S:292:LEU:HD21	2.43	0.53
1:S:453:VAL:O	1:S:453:VAL:HG12	2.09	0.53
1:T:211:ASP:OD2	1:T:365:ASN:HB2	2.08	0.53
1:X:453:VAL:O	1:X:453:VAL:HG12	2.09	0.53
1:Z:484:THR:HG23	1:Z:485:ILE:HG12	1.91	0.53
1:f:53:TYR:CG	1:p:422:THR:HG22	2.43	0.53
1:f:358:ASP:CG	1:f:359:SER:N	2.63	0.53
1:h:211:ASP:OD2	1:h:365:ASN:HB2	2.08	0.53
1:i:211:ASP:OD2	1:i:365:ASN:HB2	2.08	0.53
1:n:237:TYR:CE2	1:n:292:LEU:HD21	2.43	0.53
1:o:237:TYR:CE2	1:o:292:LEU:HD21	2.43	0.53
1:r:231:LEU:HD21	1:r:371:ILE:CG2	2.35	0.53
1:s:484:THR:HG23	1:s:485:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:237:TYR:CE2	1:u:292:LEU:HD21	2.43	0.53
1:v:237:TYR:CE2	1:v:292:LEU:HD21	2.43	0.53
1:x:453:VAL:O	1:x:453:VAL:HG12	2.09	0.53
1:x:484:THR:HG23	1:x:485:ILE:HG12	1.91	0.53
1:1:453:VAL:O	1:1:453:VAL:HG12	2.09	0.53
1:4:211:ASP:OD2	1:4:365:ASN:HB2	2.08	0.53
1:A:237:TYR:CE2	1:A:292:LEU:HD21	2.43	0.53
1:H:358:ASP:CG	1:H:359:SER:N	2.63	0.53
1:V:237:TYR:CE2	1:V:292:LEU:HD21	2.43	0.53
1:e:231:LEU:CD2	1:e:371:ILE:HG23	2.37	0.53
1:g:237:TYR:CE2	1:g:292:LEU:HD21	2.43	0.53
1:n:229:THR:CG2	1:n:230:GLU:H	2.18	0.53
1:v:453:VAL:O	1:v:453:VAL:HG12	2.09	0.53
1:x:237:TYR:CE2	1:x:292:LEU:HD21	2.43	0.53
1:1:237:TYR:CE2	1:1:292:LEU:HD21	2.43	0.53
1:2:229:THR:CG2	1:2:230:GLU:N	2.69	0.53
1:2:231:LEU:CD2	1:2:371:ILE:HG23	2.37	0.53
1:7:453:VAL:HG12	1:7:453:VAL:O	2.09	0.53
1:B:453:VAL:O	1:B:453:VAL:HG12	2.09	0.53
1:E:484:THR:HG23	1:E:485:ILE:HG12	1.91	0.53
1:G:237:TYR:CE2	1:G:292:LEU:HD21	2.43	0.53
1:M:237:TYR:CE2	1:M:292:LEU:HD21	2.43	0.53
1:T:237:TYR:CE2	1:T:292:LEU:HD21	2.43	0.53
1:T:484:THR:HG23	1:T:485:ILE:HG12	1.91	0.53
1:a:422:THR:HG22	1:p:53:TYR:CD2	2.44	0.53
1:b:211:ASP:OD2	1:b:365:ASN:HB2	2.08	0.53
1:e:484:THR:HG23	1:e:485:ILE:HG12	1.91	0.53
1:f:484:THR:HG23	1:f:485:ILE:HG12	1.91	0.53
1:j:453:VAL:HG12	1:j:453:VAL:O	2.09	0.53
1:p:211:ASP:OD2	1:p:365:ASN:HB2	2.08	0.53
1:q:211:ASP:OD2	1:q:365:ASN:HB2	2.08	0.53
1:r:484:THR:HG23	1:r:485:ILE:HG12	1.91	0.53
1:s:237:TYR:CE2	1:s:292:LEU:HD21	2.43	0.53
1:t:237:TYR:CE2	1:t:292:LEU:HD21	2.43	0.53
1:v:229:THR:CG2	1:v:230:GLU:H	2.17	0.53
1:x:211:ASP:OD2	1:x:365:ASN:HB2	2.08	0.53
1:2:53:TYR:CG	1:e:422:THR:HG22	2.44	0.52
1:8:211:ASP:OD2	1:8:365:ASN:HB2	2.08	0.52
1:9:422:THR:HG22	1:E:53:TYR:CG	2.44	0.52
1:F:237:TYR:CE2	1:F:292:LEU:HD21	2.43	0.52
1:S:484:THR:HG23	1:S:485:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:231:LEU:CD2	1:W:371:ILE:HG23	2.37	0.52
1:c:211:ASP:OD2	1:c:365:ASN:HB2	2.08	0.52
1:c:422:THR:HG22	1:m:53:TYR:CD2	2.44	0.52
1:q:211:ASP:C	1:q:249:LEU:CD1	2.74	0.52
1:t:229:THR:CG2	1:t:230:GLU:N	2.70	0.52
1:v:231:LEU:HD21	1:v:371:ILE:CG2	2.35	0.52
1:y:358:ASP:N	1:y:362:ARG:O	2.38	0.52
1:z:453:VAL:O	1:z:453:VAL:HG12	2.09	0.52
1:5:484:THR:HG23	1:5:485:ILE:HG12	1.91	0.52
1:C:211:ASP:OD2	1:C:365:ASN:HB2	2.08	0.52
1:C:484:THR:HG23	1:C:485:ILE:HG12	1.91	0.52
1:F:146:SER:HB2	1:F:168:GLU:HB3	1.92	0.52
1:J:484:THR:HG23	1:J:485:ILE:HG12	1.91	0.52
1:L:237:TYR:CE2	1:L:292:LEU:HD21	2.43	0.52
1:L:453:VAL:O	1:L:453:VAL:HG12	2.09	0.52
1:M:231:LEU:HD21	1:M:371:ILE:CG2	2.35	0.52
1:N:211:ASP:OD2	1:N:365:ASN:HB2	2.08	0.52
1:P:211:ASP:C	1:P:249:LEU:CD1	2.74	0.52
1:Q:453:VAL:O	1:Q:453:VAL:HG12	2.09	0.52
1:V:453:VAL:O	1:V:453:VAL:HG12	2.09	0.52
1:Z:92:VAL:O	1:m:422:THR:OG1	2.21	0.52
1:Z:358:ASP:CG	1:Z:359:SER:N	2.63	0.52
1:f:453:VAL:O	1:f:453:VAL:HG12	2.09	0.52
1:h:484:THR:HG23	1:h:485:ILE:HG12	1.91	0.52
1:u:453:VAL:HG12	1:u:453:VAL:O	2.09	0.52
1:z:146:SER:HB2	1:z:168:GLU:HB3	1.92	0.52
1:6:484:THR:HG23	1:6:485:ILE:HG12	1.91	0.52
1:7:146:SER:HB2	1:7:168:GLU:HB3	1.92	0.52
1:9:453:VAL:O	1:9:453:VAL:HG12	2.09	0.52
1:9:484:THR:HG23	1:9:485:ILE:HG12	1.91	0.52
1:D:146:SER:HB2	1:D:168:GLU:HB3	1.92	0.52
1:I:231:LEU:CD2	1:I:371:ILE:HG23	2.37	0.52
1:M:146:SER:HB2	1:M:168:GLU:HB3	1.92	0.52
1:M:453:VAL:O	1:M:453:VAL:HG12	2.09	0.52
1:N:146:SER:HB2	1:N:168:GLU:HB3	1.92	0.52
1:Y:146:SER:HB2	1:Y:168:GLU:HB3	1.92	0.52
1:Y:237:TYR:CE2	1:Y:292:LEU:HD21	2.43	0.52
1:a:146:SER:HB2	1:a:168:GLU:HB3	1.92	0.52
1:j:237:TYR:CE2	1:j:292:LEU:HD21	2.43	0.52
1:k:358:ASP:N	1:k:362:ARG:O	2.38	0.52
1:r:211:ASP:OD2	1:r:365:ASN:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:231:LEU:CD2	1:s:371:ILE:HG23	2.37	0.52
1:v:211:ASP:OD2	1:v:365:ASN:HB2	2.08	0.52
1:8:450:GLU:OE1	1:X:450:GLU:CG	2.57	0.52
1:E:237:TYR:CE2	1:E:292:LEU:HD21	2.43	0.52
1:F:229:THR:CG2	1:F:230:GLU:N	2.69	0.52
1:F:453:VAL:O	1:F:453:VAL:HG12	2.09	0.52
1:G:146:SER:HB2	1:G:168:GLU:HB3	1.92	0.52
1:H:146:SER:HB2	1:H:168:GLU:HB3	1.92	0.52
1:J:453:VAL:HG12	1:J:453:VAL:O	2.09	0.52
1:P:146:SER:HB2	1:P:168:GLU:HB3	1.92	0.52
1:P:484:THR:HG23	1:P:485:ILE:HG12	1.91	0.52
1:Q:211:ASP:OD2	1:Q:365:ASN:HB2	2.08	0.52
1:R:146:SER:HB2	1:R:168:GLU:HB3	1.92	0.52
1:X:211:ASP:OD2	1:X:365:ASN:HB2	2.08	0.52
1:f:231:LEU:CD2	1:f:371:ILE:HG23	2.37	0.52
1:q:231:LEU:CD2	1:q:371:ILE:HG23	2.37	0.52
1:t:484:THR:HG23	1:t:485:ILE:HG12	1.91	0.52
1:x:146:SER:HB2	1:x:168:GLU:HB3	1.92	0.52
1:z:211:ASP:OD2	1:z:365:ASN:HB2	2.08	0.52
1:2:146:SER:HB2	1:2:168:GLU:HB3	1.92	0.52
1:7:358:ASP:CG	1:7:359:SER:N	2.63	0.52
1:A:96:ASP:HB2	1:T:426:THR:HG23	1.92	0.52
1:A:453:VAL:O	1:A:453:VAL:HG12	2.09	0.52
1:C:146:SER:HB2	1:C:168:GLU:HB3	1.92	0.52
1:F:484:THR:HG23	1:F:485:ILE:HG12	1.91	0.52
1:G:358:ASP:N	1:G:362:ARG:O	2.38	0.52
1:G:484:THR:HG23	1:G:485:ILE:HG12	1.91	0.52
1:H:453:VAL:O	1:H:453:VAL:HG12	2.09	0.52
1:L:211:ASP:OD2	1:L:365:ASN:HB2	2.08	0.52
1:N:453:VAL:O	1:N:453:VAL:HG12	2.09	0.52
1:O:146:SER:HB2	1:O:168:GLU:HB3	1.92	0.52
1:R:453:VAL:HG12	1:R:453:VAL:O	2.09	0.52
1:Z:453:VAL:HG12	1:Z:453:VAL:O	2.09	0.52
1:d:146:SER:HB2	1:d:168:GLU:HB3	1.92	0.52
1:k:229:THR:CG2	1:k:230:GLU:N	2.69	0.52
1:m:237:TYR:CE2	1:m:292:LEU:HD21	2.43	0.52
1:p:453:VAL:O	1:p:453:VAL:HG12	2.09	0.52
1:q:146:SER:HB2	1:q:168:GLU:HB3	1.92	0.52
1:q:453:VAL:O	1:q:453:VAL:HG12	2.09	0.52
1:v:484:THR:HG23	1:v:485:ILE:HG12	1.91	0.52
1:y:146:SER:HB2	1:y:168:GLU:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:231:LEU:CD2	1:y:371:ILE:HG23	2.37	0.52
1:z:231:LEU:CD2	1:z:371:ILE:HG23	2.37	0.52
1:z:484:THR:HG23	1:z:485:ILE:HG12	1.91	0.52
1:4:422:THR:OG1	1:D:92:VAL:O	2.21	0.52
1:A:484:THR:HG23	1:A:485:ILE:HG12	1.91	0.52
1:D:484:THR:HG23	1:D:485:ILE:HG12	1.91	0.52
1:E:453:VAL:O	1:E:453:VAL:HG12	2.09	0.52
1:H:229:THR:CG2	1:H:230:GLU:N	2.69	0.52
1:I:146:SER:HB2	1:I:168:GLU:HB3	1.92	0.52
1:a:484:THR:HG23	1:a:485:ILE:HG12	1.91	0.52
1:c:453:VAL:O	1:c:453:VAL:HG12	2.09	0.52
1:g:231:LEU:HD21	1:g:371:ILE:CG2	2.35	0.52
1:i:484:THR:HG23	1:i:485:ILE:HG12	1.91	0.52
1:k:146:SER:HB2	1:k:168:GLU:HB3	1.92	0.52
1:t:231:LEU:CD2	1:t:371:ILE:HG23	2.37	0.52
1:1:484:THR:HG23	1:1:485:ILE:HG12	1.91	0.52
1:3:450:GLU:HG2	1:O:451:GLN:HB3	1.92	0.52
1:4:146:SER:HB2	1:4:168:GLU:HB3	1.92	0.52
1:6:146:SER:HB2	1:6:168:GLU:HB3	1.92	0.52
1:E:358:ASP:CG	1:E:360:LYS:H	2.18	0.52
1:G:453:VAL:HG12	1:G:453:VAL:O	2.09	0.52
1:J:231:LEU:HD21	1:J:371:ILE:CG2	2.35	0.52
1:K:237:TYR:CE2	1:K:292:LEU:HD21	2.43	0.52
1:O:484:THR:HG23	1:O:485:ILE:HG12	1.91	0.52
1:Q:484:THR:HG23	1:Q:485:ILE:HG12	1.91	0.52
1:R:484:THR:HG23	1:R:485:ILE:HG12	1.91	0.52
1:T:146:SER:HB2	1:T:168:GLU:HB3	1.92	0.52
1:V:358:ASP:CG	1:V:360:LYS:H	2.18	0.52
1:Y:211:ASP:C	1:Y:249:LEU:CD1	2.74	0.52
1:c:484:THR:HG23	1:c:485:ILE:HG12	1.91	0.52
1:i:422:THR:HG22	1:j:53:TYR:CG	2.44	0.52
1:n:453:VAL:O	1:n:453:VAL:HG12	2.09	0.52
1:o:231:LEU:HD21	1:o:371:ILE:CG2	2.35	0.52
1:o:453:VAL:O	1:o:453:VAL:HG12	2.09	0.52
1:p:146:SER:HB2	1:p:168:GLU:HB3	1.92	0.52
1:r:146:SER:HB2	1:r:168:GLU:HB3	1.92	0.52
1:3:233:MET:N	1:3:234:PRO:HD2	2.25	0.52
1:9:358:ASP:CG	1:9:360:LYS:H	2.18	0.52
1:C:358:ASP:N	1:C:362:ARG:O	2.38	0.52
1:F:211:ASP:C	1:F:249:LEU:CD1	2.74	0.52
1:G:422:THR:HG22	1:h:53:TYR:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:484:THR:HG23	1:H:485:ILE:HG12	1.91	0.52
1:J:233:MET:N	1:J:234:PRO:HD2	2.25	0.52
1:J:358:ASP:CG	1:J:360:LYS:H	2.18	0.52
1:K:484:THR:HG23	1:K:485:ILE:HG12	1.91	0.52
1:L:484:THR:HG23	1:L:485:ILE:HG12	1.91	0.52
1:e:146:SER:HB2	1:e:168:GLU:HB3	1.92	0.52
1:i:211:ASP:O	1:i:249:LEU:HD11	2.02	0.52
1:j:484:THR:HG23	1:j:485:ILE:HG12	1.91	0.52
1:l:146:SER:HB2	1:l:168:GLU:HB3	1.92	0.52
1:l:453:VAL:O	1:l:453:VAL:HG12	2.09	0.52
1:o:358:ASP:CG	1:o:360:LYS:H	2.18	0.52
1:x:358:ASP:CG	1:x:359:SER:N	2.63	0.52
1:y:484:THR:HG23	1:y:485:ILE:HG12	1.91	0.52
1:3:146:SER:HB2	1:3:168:GLU:HB3	1.92	0.52
1:7:484:THR:HG23	1:7:485:ILE:HG12	1.91	0.52
1:8:233:MET:N	1:8:234:PRO:HD2	2.25	0.52
1:9:233:MET:N	1:9:234:PRO:HD2	2.25	0.52
1:D:358:ASP:CG	1:D:360:LYS:H	2.18	0.52
1:F:233:MET:N	1:F:234:PRO:HD2	2.25	0.52
1:H:422:THR:HG22	1:V:53:TYR:CG	2.44	0.52
1:R:231:LEU:CD2	1:R:371:ILE:HG23	2.37	0.52
1:X:146:SER:HB2	1:X:168:GLU:HB3	1.92	0.52
1:X:484:THR:HG23	1:X:485:ILE:HG12	1.91	0.52
1:b:146:SER:HB2	1:b:168:GLU:HB3	1.92	0.52
1:g:453:VAL:O	1:g:453:VAL:HG12	2.09	0.52
1:h:146:SER:HB2	1:h:168:GLU:HB3	1.92	0.52
1:t:146:SER:HB2	1:t:168:GLU:HB3	1.92	0.52
1:t:233:MET:N	1:t:234:PRO:HD2	2.25	0.52
1:t:453:VAL:O	1:t:453:VAL:HG12	2.09	0.52
1:w:453:VAL:O	1:w:453:VAL:HG12	2.09	0.52
1:y:233:MET:N	1:y:234:PRO:HD2	2.25	0.52
1:1:358:ASP:CG	1:1:360:LYS:H	2.18	0.52
1:2:453:VAL:O	1:2:453:VAL:HG12	2.09	0.52
1:3:358:ASP:CG	1:3:360:LYS:H	2.18	0.52
1:5:53:TYR:CG	1:g:422:THR:HG22	2.45	0.52
1:8:231:LEU:CD2	1:8:371:ILE:HG23	2.37	0.52
1:A:358:ASP:CG	1:A:359:SER:N	2.63	0.52
1:D:453:VAL:O	1:D:453:VAL:HG12	2.09	0.52
1:G:358:ASP:CG	1:G:360:LYS:H	2.18	0.52
1:P:358:ASP:CG	1:P:360:LYS:H	2.18	0.52
1:T:358:ASP:N	1:T:362:ARG:O	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:358:ASP:CG	1:Y:360:LYS:H	2.18	0.52
1:Y:422:THR:HG22	1:g:53:TYR:CD2	2.45	0.52
1:Y:453:VAL:O	1:Y:453:VAL:HG12	2.09	0.52
1:Z:233:MET:N	1:Z:234:PRO:HD2	2.25	0.52
1:b:233:MET:N	1:b:234:PRO:HD2	2.25	0.52
1:e:358:ASP:N	1:e:362:ARG:O	2.38	0.52
1:n:233:MET:N	1:n:234:PRO:HD2	2.25	0.52
1:o:146:SER:HB2	1:o:168:GLU:HB3	1.92	0.52
1:s:233:MET:N	1:s:234:PRO:HD2	2.25	0.52
1:u:484:THR:HG23	1:u:485:ILE:HG12	1.91	0.52
1:x:358:ASP:CG	1:x:360:LYS:H	2.18	0.52
1:3:453:VAL:O	1:3:453:VAL:HG12	2.09	0.51
1:8:146:SER:HB2	1:8:168:GLU:HB3	1.92	0.51
1:D:233:MET:N	1:D:234:PRO:HD2	2.25	0.51
1:Y:484:THR:HG23	1:Y:485:ILE:HG12	1.91	0.51
1:d:358:ASP:CG	1:d:360:LYS:H	2.18	0.51
1:d:453:VAL:O	1:d:453:VAL:HG12	2.09	0.51
1:i:184:THR:HG21	1:i:483:PRO:HD2	1.93	0.51
1:k:358:ASP:CG	1:k:359:SER:N	2.63	0.51
1:k:484:THR:HG23	1:k:485:ILE:HG12	1.91	0.51
1:m:358:ASP:CG	1:m:360:LYS:H	2.18	0.51
1:p:233:MET:N	1:p:234:PRO:HD2	2.25	0.51
1:p:358:ASP:CG	1:p:360:LYS:H	2.18	0.51
1:r:453:VAL:O	1:r:453:VAL:HG12	2.09	0.51
1:w:358:ASP:CG	1:w:360:LYS:H	2.18	0.51
1:y:407:GLU:N	1:y:407:GLU:OE2	2.44	0.51
1:y:453:VAL:O	1:y:453:VAL:HG12	2.09	0.51
1:z:233:MET:N	1:z:234:PRO:HD2	2.25	0.51
1:1:184:THR:HG21	1:1:483:PRO:HD2	1.93	0.51
1:1:407:GLU:N	1:1:407:GLU:OE2	2.44	0.51
1:5:184:THR:HG21	1:5:483:PRO:HD2	1.93	0.51
1:5:233:MET:N	1:5:234:PRO:HD2	2.25	0.51
1:6:231:LEU:HD21	1:6:371:ILE:CG2	2.35	0.51
1:7:407:GLU:N	1:7:407:GLU:OE2	2.44	0.51
1:9:53:TYR:CG	1:n:422:THR:HG22	2.45	0.51
1:9:146:SER:HB2	1:9:168:GLU:HB3	1.92	0.51
1:B:53:TYR:CD2	1:f:422:THR:HG22	2.45	0.51
1:B:146:SER:HB2	1:B:168:GLU:HB3	1.92	0.51
1:C:453:VAL:O	1:C:453:VAL:HG12	2.09	0.51
1:E:233:MET:N	1:E:234:PRO:HD2	2.25	0.51
1:F:184:THR:HG21	1:F:483:PRO:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:422:THR:HG22	1:H:53:TYR:CG	2.46	0.51
1:I:211:ASP:C	1:I:249:LEU:CD1	2.74	0.51
1:K:358:ASP:CG	1:K:360:LYS:H	2.18	0.51
1:K:407:GLU:N	1:K:407:GLU:OE2	2.44	0.51
1:L:146:SER:HB2	1:L:168:GLU:HB3	1.92	0.51
1:L:184:THR:HG21	1:L:483:PRO:HD2	1.93	0.51
1:L:233:MET:N	1:L:234:PRO:HD2	2.25	0.51
1:P:184:THR:HG21	1:P:483:PRO:HD2	1.93	0.51
1:P:453:VAL:O	1:P:453:VAL:HG12	2.09	0.51
1:Q:146:SER:HB2	1:Q:168:GLU:HB3	1.92	0.51
1:V:231:LEU:CD2	1:V:371:ILE:HG23	2.37	0.51
1:V:358:ASP:CG	1:V:359:SER:N	2.63	0.51
1:W:407:GLU:N	1:W:407:GLU:OE2	2.44	0.51
1:Z:146:SER:HB2	1:Z:168:GLU:HB3	1.92	0.51
1:Z:358:ASP:CG	1:Z:360:LYS:H	2.18	0.51
1:a:184:THR:HG21	1:a:483:PRO:HD2	1.93	0.51
1:a:233:MET:N	1:a:234:PRO:HD2	2.25	0.51
1:a:358:ASP:CG	1:a:360:LYS:H	2.18	0.51
1:f:146:SER:HB2	1:f:168:GLU:HB3	1.92	0.51
1:g:233:MET:N	1:g:234:PRO:HD2	2.25	0.51
1:m:407:GLU:N	1:m:407:GLU:OE2	2.44	0.51
1:m:453:VAL:HG12	1:m:453:VAL:O	2.09	0.51
1:o:233:MET:N	1:o:234:PRO:HD2	2.25	0.51
1:o:407:GLU:N	1:o:407:GLU:OE2	2.44	0.51
1:t:184:THR:HG21	1:t:483:PRO:HD2	1.92	0.51
1:u:233:MET:N	1:u:234:PRO:HD2	2.25	0.51
1:v:146:SER:HB2	1:v:168:GLU:HB3	1.92	0.51
1:x:184:THR:HG21	1:x:483:PRO:HD2	1.93	0.51
1:z:407:GLU:N	1:z:407:GLU:OE2	2.44	0.51
1:1:233:MET:N	1:1:234:PRO:HD2	2.25	0.51
1:1:358:ASP:N	1:1:362:ARG:O	2.38	0.51
1:2:211:ASP:O	1:2:249:LEU:HD11	2.02	0.51
1:2:407:GLU:OE2	1:2:407:GLU:N	2.44	0.51
1:4:53:TYR:CG	1:N:422:THR:HG22	2.46	0.51
1:5:358:ASP:CG	1:5:360:LYS:H	2.18	0.51
1:5:453:VAL:O	1:5:453:VAL:HG12	2.09	0.51
1:7:233:MET:N	1:7:234:PRO:HD2	2.25	0.51
1:8:484:THR:HG23	1:8:485:ILE:HG12	1.91	0.51
1:9:184:THR:HG21	1:9:483:PRO:HD2	1.93	0.51
1:A:358:ASP:CG	1:A:360:LYS:H	2.18	0.51
1:E:231:LEU:HD21	1:E:371:ILE:CG2	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:453:VAL:O	1:I:453:VAL:HG12	2.09	0.51
1:L:407:GLU:N	1:L:407:GLU:OE2	2.44	0.51
1:N:233:MET:N	1:N:234:PRO:HD2	2.25	0.51
1:O:453:VAL:O	1:O:453:VAL:HG12	2.09	0.51
1:S:146:SER:HB2	1:S:168:GLU:HB3	1.92	0.51
1:S:407:GLU:N	1:S:407:GLU:OE2	2.44	0.51
1:W:146:SER:HB2	1:W:168:GLU:HB3	1.92	0.51
1:c:53:TYR:CG	1:s:422:THR:HG22	2.46	0.51
1:d:484:THR:HG23	1:d:485:ILE:HG12	1.91	0.51
1:e:233:MET:N	1:e:234:PRO:HD2	2.25	0.51
1:f:358:ASP:N	1:f:362:ARG:O	2.38	0.51
1:i:358:ASP:CG	1:i:360:LYS:H	2.18	0.51
1:j:233:MET:N	1:j:234:PRO:HD2	2.25	0.51
1:k:184:THR:HG21	1:k:483:PRO:HD2	1.93	0.51
1:l:407:GLU:N	1:l:407:GLU:OE2	2.44	0.51
1:m:184:THR:HG21	1:m:483:PRO:HD2	1.93	0.51
1:n:146:SER:HB2	1:n:168:GLU:HB3	1.92	0.51
1:r:233:MET:N	1:r:234:PRO:HD2	2.25	0.51
1:u:407:GLU:N	1:u:407:GLU:OE2	2.44	0.51
1:v:231:LEU:CD2	1:v:371:ILE:HG23	2.37	0.51
1:1:146:SER:HB2	1:1:168:GLU:HB3	1.92	0.51
1:4:184:THR:HG21	1:4:483:PRO:HD2	1.93	0.51
1:4:255:ASP:OD1	1:4:257:THR:OG1	2.29	0.51
1:4:358:ASP:CG	1:4:360:LYS:H	2.18	0.51
1:5:407:GLU:N	1:5:407:GLU:OE2	2.44	0.51
1:7:184:THR:HG21	1:7:483:PRO:HD2	1.93	0.51
1:7:358:ASP:CG	1:7:360:LYS:H	2.18	0.51
1:9:231:LEU:CD2	1:9:371:ILE:HG23	2.37	0.51
1:B:407:GLU:N	1:B:407:GLU:OE2	2.44	0.51
1:C:407:GLU:N	1:C:407:GLU:OE2	2.44	0.51
1:F:358:ASP:CG	1:F:360:LYS:H	2.18	0.51
1:I:407:GLU:N	1:I:407:GLU:OE2	2.44	0.51
1:I:426:THR:HG23	1:I:96:ASP:HB2	1.92	0.51
1:O:184:THR:HG21	1:O:483:PRO:HD2	1.93	0.51
1:P:422:THR:HG22	1:d:53:TYR:CD2	2.46	0.51
1:R:450:GLU:HG3	1:v:450:GLU:OE1	2.10	0.51
1:S:184:THR:HG21	1:S:483:PRO:HD2	1.93	0.51
1:S:358:ASP:CG	1:S:360:LYS:H	2.18	0.51
1:T:231:LEU:CD2	1:T:371:ILE:HG23	2.37	0.51
1:W:233:MET:N	1:W:234:PRO:HD2	2.25	0.51
1:c:146:SER:HB2	1:c:168:GLU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:184:THR:HG21	1:c:483:PRO:HD2	1.93	0.51
1:g:358:ASP:CG	1:g:360:LYS:H	2.18	0.51
1:k:233:MET:N	1:k:234:PRO:HD2	2.25	0.51
1:k:407:GLU:N	1:k:407:GLU:OE2	2.44	0.51
1:m:233:MET:N	1:m:234:PRO:HD2	2.25	0.51
1:u:358:ASP:CG	1:u:360:LYS:H	2.18	0.51
1:w:233:MET:N	1:w:234:PRO:HD2	2.25	0.51
1:2:233:MET:N	1:2:234:PRO:HD2	2.25	0.51
1:3:422:THR:HG22	1:O:53:TYR:CG	2.45	0.51
1:6:358:ASP:CG	1:6:359:SER:N	2.63	0.51
1:6:453:VAL:O	1:6:453:VAL:HG12	2.09	0.51
1:H:184:THR:HG21	1:H:483:PRO:HD2	1.93	0.51
1:K:231:LEU:CD2	1:K:371:ILE:HG23	2.37	0.51
1:K:233:MET:N	1:K:234:PRO:HD2	2.25	0.51
1:P:53:TYR:CG	1:z:422:THR:HG22	2.45	0.51
1:P:422:THR:HG22	1:d:53:TYR:CG	2.46	0.51
1:T:407:GLU:N	1:T:407:GLU:OE2	2.44	0.51
1:W:453:VAL:O	1:W:453:VAL:HG12	2.09	0.51
1:Y:184:THR:HG21	1:Y:483:PRO:HD2	1.93	0.51
1:Z:231:LEU:CD2	1:Z:371:ILE:HG23	2.37	0.51
1:d:184:THR:HG21	1:d:483:PRO:HD2	1.93	0.51
1:d:407:GLU:N	1:d:407:GLU:OE2	2.44	0.51
1:i:146:SER:HB2	1:i:168:GLU:HB3	1.92	0.51
1:j:358:ASP:N	1:j:362:ARG:O	2.38	0.51
1:k:358:ASP:CG	1:k:360:LYS:H	2.18	0.51
1:l:358:ASP:N	1:l:362:ARG:O	2.38	0.51
1:o:184:THR:HG21	1:o:483:PRO:HD2	1.93	0.51
1:q:233:MET:N	1:q:234:PRO:HD2	2.25	0.51
1:s:146:SER:HB2	1:s:168:GLU:HB3	1.92	0.51
1:s:358:ASP:CG	1:s:360:LYS:H	2.18	0.51
1:s:407:GLU:N	1:s:407:GLU:OE2	2.44	0.51
1:s:453:VAL:O	1:s:453:VAL:HG12	2.09	0.51
1:6:231:LEU:CD2	1:6:371:ILE:HG23	2.37	0.51
1:6:233:MET:N	1:6:234:PRO:HD2	2.25	0.51
1:8:57:SER:N	1:y:57:SER:OG	2.43	0.51
1:8:407:GLU:N	1:8:407:GLU:OE2	2.44	0.51
1:9:407:GLU:N	1:9:407:GLU:OE2	2.44	0.51
1:A:53:TYR:CG	1:Q:422:THR:HG22	2.46	0.51
1:A:146:SER:HB2	1:A:168:GLU:HB3	1.92	0.51
1:A:407:GLU:N	1:A:407:GLU:OE2	2.44	0.51
1:B:358:ASP:CG	1:B:360:LYS:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:THR:CG2	1:C:230:GLU:N	2.69	0.51
1:C:450:GLU:OE1	1:E:450:GLU:CG	2.59	0.51
1:D:184:THR:HG21	1:D:483:PRO:HD2	1.93	0.51
1:E:358:ASP:CG	1:E:359:SER:N	2.63	0.51
1:H:233:MET:N	1:H:234:PRO:HD2	2.25	0.51
1:J:407:GLU:N	1:J:407:GLU:OE2	2.44	0.51
1:K:184:THR:HG21	1:K:483:PRO:HD2	1.92	0.51
1:L:358:ASP:CG	1:L:360:LYS:H	2.18	0.51
1:L:450:GLU:CG	1:r:450:GLU:OE1	2.58	0.51
1:L:541:ARG:HB2	1:r:46:GLU:OE1	2.11	0.51
1:M:184:THR:HG21	1:M:483:PRO:HD2	1.93	0.51
1:N:184:THR:HG21	1:N:483:PRO:HD2	1.93	0.51
1:R:358:ASP:CG	1:R:360:LYS:H	2.18	0.51
1:X:407:GLU:N	1:X:407:GLU:OE2	2.44	0.51
1:b:358:ASP:CG	1:b:360:LYS:H	2.18	0.51
1:k:453:VAL:O	1:k:453:VAL:HG12	2.09	0.51
1:l:233:MET:N	1:l:234:PRO:HD2	2.25	0.51
1:l:255:ASP:OD1	1:l:257:THR:OG1	2.29	0.51
1:m:146:SER:HB2	1:m:168:GLU:HB3	1.92	0.51
1:r:184:THR:HG21	1:r:483:PRO:HD2	1.93	0.51
1:t:358:ASP:CG	1:t:360:LYS:H	2.18	0.51
1:v:184:THR:HG21	1:v:483:PRO:HD2	1.93	0.51
1:v:358:ASP:CG	1:v:360:LYS:H	2.18	0.51
1:v:407:GLU:N	1:v:407:GLU:OE2	2.44	0.51
1:w:146:SER:HB2	1:w:168:GLU:HB3	1.92	0.51
1:w:407:GLU:N	1:w:407:GLU:OE2	2.44	0.51
1:4:233:MET:N	1:4:234:PRO:HD2	2.25	0.51
1:4:453:VAL:O	1:4:453:VAL:HG12	2.09	0.51
1:7:450:GLU:OE1	1:t:450:GLU:CG	2.59	0.51
1:A:233:MET:N	1:A:234:PRO:HD2	2.25	0.51
1:D:422:THR:HG22	1:q:53:TYR:CG	2.45	0.51
1:G:184:THR:HG21	1:G:483:PRO:HD2	1.93	0.51
1:H:407:GLU:N	1:H:407:GLU:OE2	2.44	0.51
1:O:233:MET:N	1:O:234:PRO:HD2	2.25	0.51
1:O:407:GLU:N	1:O:407:GLU:OE2	2.44	0.51
1:R:233:MET:N	1:R:234:PRO:HD2	2.25	0.51
1:S:233:MET:N	1:S:234:PRO:HD2	2.25	0.51
1:V:211:ASP:C	1:V:249:LEU:CD1	2.74	0.51
1:W:358:ASP:CG	1:W:360:LYS:H	2.18	0.51
1:Z:407:GLU:N	1:Z:407:GLU:OE2	2.44	0.51
1:h:358:ASP:CG	1:h:360:LYS:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:453:VAL:O	1:h:453:VAL:HG12	2.09	0.51
1:i:231:LEU:CD2	1:i:371:ILE:HG23	2.37	0.51
1:i:407:GLU:N	1:i:407:GLU:OE2	2.44	0.51
1:l:358:ASP:CG	1:l:359:SER:N	2.63	0.51
1:n:484:THR:HG23	1:n:485:ILE:HG12	1.91	0.51
1:t:358:ASP:N	1:t:362:ARG:O	2.38	0.51
1:3:358:ASP:N	1:3:362:ARG:O	2.38	0.51
1:A:45:THR:HG22	1:A:45:THR:O	2.11	0.51
1:F:358:ASP:N	1:F:362:ARG:O	2.38	0.51
1:I:233:MET:N	1:I:234:PRO:HD2	2.25	0.51
1:M:233:MET:N	1:M:234:PRO:HD2	2.25	0.51
1:M:407:GLU:OE2	1:M:407:GLU:N	2.44	0.51
1:M:484:THR:HG23	1:M:485:ILE:HG12	1.91	0.51
1:P:233:MET:N	1:P:234:PRO:HD2	2.25	0.51
1:Q:231:LEU:CD2	1:Q:371:ILE:HG23	2.37	0.51
1:W:211:ASP:C	1:W:249:LEU:CD1	2.74	0.51
1:Y:233:MET:N	1:Y:234:PRO:HD2	2.25	0.51
1:b:45:THR:HG22	1:b:45:THR:O	2.11	0.51
1:d:233:MET:N	1:d:234:PRO:HD2	2.25	0.51
1:e:184:THR:HG21	1:e:483:PRO:HD2	1.93	0.51
1:g:407:GLU:N	1:g:407:GLU:OE2	2.44	0.51
1:j:407:GLU:N	1:j:407:GLU:OE2	2.44	0.51
1:n:184:THR:HG21	1:n:483:PRO:HD2	1.93	0.51
1:p:407:GLU:OE2	1:p:407:GLU:N	2.44	0.51
1:q:358:ASP:CG	1:q:360:LYS:H	2.18	0.51
1:q:407:GLU:N	1:q:407:GLU:OE2	2.44	0.51
1:x:233:MET:N	1:x:234:PRO:HD2	2.25	0.51
1:z:358:ASP:CG	1:z:360:LYS:H	2.18	0.51
1:6:407:GLU:N	1:6:407:GLU:OE2	2.44	0.51
1:8:358:ASP:CG	1:8:360:LYS:H	2.18	0.51
1:E:407:GLU:N	1:E:407:GLU:OE2	2.44	0.51
1:F:407:GLU:N	1:F:407:GLU:OE2	2.44	0.51
1:G:233:MET:N	1:G:234:PRO:HD2	2.25	0.51
1:J:450:GLU:CG	1:Y:450:GLU:OE1	2.59	0.51
1:K:146:SER:HB2	1:K:168:GLU:HB3	1.92	0.51
1:T:358:ASP:CG	1:T:360:LYS:H	2.18	0.51
1:a:407:GLU:N	1:a:407:GLU:OE2	2.44	0.51
1:b:407:GLU:N	1:b:407:GLU:OE2	2.44	0.51
1:c:45:THR:O	1:c:45:THR:HG22	2.11	0.51
1:c:233:MET:N	1:c:234:PRO:HD2	2.25	0.51
1:f:358:ASP:CG	1:f:360:LYS:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:146:SER:HB2	1:g:168:GLU:HB3	1.92	0.51
1:h:407:GLU:OE2	1:h:407:GLU:N	2.44	0.51
1:i:233:MET:N	1:i:234:PRO:HD2	2.25	0.51
1:l:45:THR:HG22	1:l:45:THR:O	2.11	0.51
1:m:255:ASP:OD1	1:m:257:THR:OG1	2.29	0.51
1:p:255:ASP:OD1	1:p:257:THR:OG1	2.29	0.51
1:r:358:ASP:CG	1:r:360:LYS:H	2.18	0.51
1:u:146:SER:HB2	1:u:168:GLU:HB3	1.92	0.51
1:v:358:ASP:N	1:v:362:ARG:O	2.38	0.51
1:2:255:ASP:OD1	1:2:257:THR:OG1	2.29	0.51
1:4:407:GLU:N	1:4:407:GLU:OE2	2.44	0.51
1:B:233:MET:N	1:B:234:PRO:HD2	2.25	0.51
1:J:146:SER:HB2	1:J:168:GLU:HB3	1.92	0.51
1:Q:407:GLU:N	1:Q:407:GLU:OE2	2.44	0.51
1:R:358:ASP:N	1:R:362:ARG:O	2.38	0.51
1:R:407:GLU:N	1:R:407:GLU:OE2	2.44	0.51
1:T:233:MET:N	1:T:234:PRO:HD2	2.25	0.51
1:V:146:SER:HB2	1:V:168:GLU:HB3	1.92	0.51
1:V:233:MET:N	1:V:234:PRO:HD2	2.25	0.51
1:Z:184:THR:HG21	1:Z:483:PRO:HD2	1.93	0.51
1:Z:255:ASP:OD1	1:Z:257:THR:OG1	2.29	0.51
1:b:255:ASP:OD1	1:b:257:THR:OG1	2.29	0.51
1:b:451:GLN:OE1	1:r:453:VAL:HG11	2.11	0.51
1:b:453:VAL:HG12	1:b:453:VAL:O	2.09	0.51
1:c:358:ASP:CG	1:c:360:LYS:H	2.18	0.51
1:c:407:GLU:N	1:c:407:GLU:OE2	2.44	0.51
1:e:407:GLU:N	1:e:407:GLU:OE2	2.44	0.51
1:f:233:MET:N	1:f:234:PRO:HD2	2.25	0.51
1:h:231:LEU:CD2	1:h:371:ILE:HG23	2.37	0.51
1:j:146:SER:HB2	1:j:168:GLU:HB3	1.92	0.51
1:j:358:ASP:CG	1:j:360:LYS:H	2.18	0.51
1:n:407:GLU:N	1:n:407:GLU:OE2	2.44	0.51
1:p:231:LEU:HD21	1:p:371:ILE:CG2	2.35	0.51
1:r:45:THR:HG22	1:r:45:THR:O	2.11	0.51
1:x:407:GLU:OE2	1:x:407:GLU:N	2.44	0.51
1:6:45:THR:O	1:6:45:THR:HG22	2.11	0.50
1:9:45:THR:HG22	1:9:45:THR:O	2.11	0.50
1:C:45:THR:O	1:C:45:THR:HG22	2.11	0.50
1:D:231:LEU:CD2	1:D:371:ILE:HG23	2.37	0.50
1:I:46:GLU:OE1	1:Z:541:ARG:HB2	2.10	0.50
1:J:184:THR:HG21	1:J:483:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:450:GLU:HG3	1:r:450:GLU:OE1	2.11	0.50
1:M:358:ASP:CG	1:M:360:LYS:H	2.18	0.50
1:X:233:MET:N	1:X:234:PRO:HD2	2.25	0.50
1:Y:229:THR:CG2	1:Y:230:GLU:N	2.69	0.50
1:a:45:THR:O	1:a:45:THR:HG22	2.11	0.50
1:e:358:ASP:CG	1:e:360:LYS:H	2.18	0.50
1:g:358:ASP:CG	1:g:359:SER:N	2.63	0.50
1:l:358:ASP:CG	1:l:360:LYS:H	2.18	0.50
1:n:358:ASP:CG	1:n:360:LYS:H	2.18	0.50
1:r:407:GLU:N	1:r:407:GLU:OE2	2.44	0.50
1:1:45:THR:HG22	1:1:45:THR:O	2.11	0.50
1:3:45:THR:O	1:3:45:THR:HG22	2.11	0.50
1:6:450:GLU:HG2	1:L:451:GLN:HB3	1.91	0.50
1:8:45:THR:O	1:8:45:THR:HG22	2.11	0.50
1:8:92:VAL:O	1:X:422:THR:OG1	2.24	0.50
1:D:407:GLU:N	1:D:407:GLU:OE2	2.44	0.50
1:G:231:LEU:CD2	1:G:371:ILE:CG2	2.90	0.50
1:H:358:ASP:CG	1:H:360:LYS:H	2.18	0.50
1:H:358:ASP:N	1:H:362:ARG:O	2.38	0.50
1:Q:233:MET:N	1:Q:234:PRO:HD2	2.25	0.50
1:Q:358:ASP:CG	1:Q:360:LYS:H	2.18	0.50
1:b:184:THR:HG21	1:b:483:PRO:HD2	1.93	0.50
1:d:45:THR:HG22	1:d:45:THR:O	2.11	0.50
1:f:407:GLU:N	1:f:407:GLU:OE2	2.44	0.50
1:l:184:THR:HG21	1:l:483:PRO:HD2	1.93	0.50
1:m:45:THR:O	1:m:45:THR:HG22	2.11	0.50
1:z:45:THR:O	1:z:45:THR:HG22	2.11	0.50
1:z:184:THR:HG21	1:z:483:PRO:HD2	1.93	0.50
1:3:184:THR:HG21	1:3:483:PRO:HD2	1.93	0.50
1:3:211:ASP:C	1:3:249:LEU:CD1	2.74	0.50
1:5:146:SER:HB2	1:5:168:GLU:HB3	1.92	0.50
1:G:407:GLU:N	1:G:407:GLU:OE2	2.44	0.50
1:N:231:LEU:CD2	1:N:371:ILE:CG2	2.90	0.50
1:N:407:GLU:N	1:N:407:GLU:OE2	2.44	0.50
1:O:358:ASP:CG	1:O:360:LYS:H	2.18	0.50
1:S:231:LEU:CD2	1:S:371:ILE:CG2	2.90	0.50
1:T:184:THR:HG21	1:T:483:PRO:HD2	1.93	0.50
1:T:231:LEU:CD2	1:T:371:ILE:CG2	2.90	0.50
1:T:255:ASP:OD1	1:T:257:THR:OG1	2.29	0.50
1:b:231:LEU:CD2	1:b:371:ILE:CG2	2.90	0.50
1:g:231:LEU:CD2	1:g:371:ILE:HG23	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:233:MET:N	1:h:234:PRO:HD2	2.25	0.50
1:k:45:THR:O	1:k:45:THR:HG22	2.11	0.50
1:p:45:THR:O	1:p:45:THR:HG22	2.11	0.50
1:s:184:THR:HG21	1:s:483:PRO:HD2	1.93	0.50
1:s:231:LEU:CD2	1:s:371:ILE:CG2	2.90	0.50
1:t:255:ASP:OD1	1:t:257:THR:OG1	2.29	0.50
1:x:231:LEU:CD2	1:x:371:ILE:CG2	2.90	0.50
1:y:184:THR:HG21	1:y:483:PRO:HD2	1.93	0.50
1:y:231:LEU:CD2	1:y:371:ILE:CG2	2.90	0.50
1:2:184:THR:HG21	1:2:483:PRO:HD2	1.93	0.50
1:3:231:LEU:CD2	1:3:371:ILE:CG2	2.90	0.50
1:3:407:GLU:N	1:3:407:GLU:OE2	2.44	0.50
1:5:45:THR:O	1:5:45:THR:HG22	2.11	0.50
1:7:422:THR:HG22	1:l:53:TYR:CD2	2.46	0.50
1:8:231:LEU:CD2	1:8:371:ILE:CG2	2.90	0.50
1:8:453:VAL:O	1:8:453:VAL:HG12	2.09	0.50
1:A:231:LEU:CD2	1:A:371:ILE:CG2	2.90	0.50
1:C:233:MET:N	1:C:234:PRO:HD2	2.25	0.50
1:D:45:THR:HG22	1:D:45:THR:O	2.11	0.50
1:E:231:LEU:CD2	1:E:371:ILE:CG2	2.90	0.50
1:T:45:THR:HG22	1:T:45:THR:O	2.11	0.50
1:X:358:ASP:CG	1:X:360:LYS:H	2.18	0.50
1:Y:231:LEU:CD2	1:Y:371:ILE:CG2	2.90	0.50
1:Y:407:GLU:N	1:Y:407:GLU:OE2	2.44	0.50
1:v:211:ASP:C	1:v:249:LEU:CD1	2.74	0.50
1:v:233:MET:N	1:v:234:PRO:HD2	2.25	0.50
1:w:231:LEU:CD2	1:w:371:ILE:CG2	2.90	0.50
1:8:184:THR:HG21	1:8:483:PRO:HD2	1.93	0.50
1:8:358:ASP:N	1:8:362:ARG:O	2.38	0.50
1:B:45:THR:O	1:B:45:THR:HG22	2.11	0.50
1:B:231:LEU:CD2	1:B:371:ILE:CG2	2.90	0.50
1:E:146:SER:HB2	1:E:168:GLU:HB3	1.92	0.50
1:J:231:LEU:CD2	1:J:371:ILE:CG2	2.90	0.50
1:M:53:TYR:CD2	1:b:422:THR:HG22	2.46	0.50
1:O:231:LEU:CD2	1:O:371:ILE:CG2	2.90	0.50
1:P:231:LEU:CD2	1:P:371:ILE:HG23	2.37	0.50
1:P:453:VAL:HG11	1:d:451:GLN:OE1	2.11	0.50
1:Q:231:LEU:CD2	1:Q:371:ILE:CG2	2.90	0.50
1:S:45:THR:O	1:S:45:THR:HG22	2.11	0.50
1:T:53:TYR:CD2	1:j:422:THR:HG22	2.46	0.50
1:a:450:GLU:OE1	1:x:450:GLU:CG	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:451:GLN:HB3	1:s:450:GLU:HG2	1.93	0.50
1:g:184:THR:HG21	1:g:483:PRO:HD2	1.93	0.50
1:j:45:THR:HG22	1:j:45:THR:O	2.11	0.50
1:k:231:LEU:CD2	1:k:371:ILE:HG23	2.37	0.50
1:r:211:ASP:C	1:r:249:LEU:CD1	2.74	0.50
1:t:407:GLU:N	1:t:407:GLU:OE2	2.44	0.50
1:u:184:THR:HG21	1:u:483:PRO:HD2	1.93	0.50
1:w:184:THR:HG21	1:w:483:PRO:HD2	1.93	0.50
1:y:358:ASP:CG	1:y:360:LYS:H	2.18	0.50
1:z:231:LEU:HD21	1:z:371:ILE:CG2	2.35	0.50
1:z:255:ASP:OD1	1:z:257:THR:OG1	2.29	0.50
1:2:358:ASP:CG	1:2:360:LYS:H	2.18	0.50
1:A:231:LEU:CD2	1:A:371:ILE:HG23	2.37	0.50
1:B:184:THR:HG21	1:B:483:PRO:HD2	1.93	0.50
1:C:358:ASP:CG	1:C:360:LYS:H	2.18	0.50
1:D:450:GLU:HG2	1:q:451:GLN:HB3	1.94	0.50
1:F:255:ASP:OD1	1:F:257:THR:OG1	2.29	0.50
1:I:231:LEU:CD2	1:I:371:ILE:CG2	2.90	0.50
1:L:358:ASP:N	1:L:362:ARG:O	2.38	0.50
1:M:231:LEU:CD2	1:M:371:ILE:CG2	2.90	0.50
1:N:358:ASP:CG	1:N:360:LYS:H	2.18	0.50
1:O:255:ASP:OD1	1:O:257:THR:OG1	2.29	0.50
1:P:407:GLU:N	1:P:407:GLU:OE2	2.44	0.50
1:V:407:GLU:N	1:V:407:GLU:OE2	2.44	0.50
1:X:231:LEU:CD2	1:X:371:ILE:CG2	2.90	0.50
1:c:255:ASP:OD1	1:c:257:THR:OG1	2.29	0.50
1:e:231:LEU:CD2	1:e:371:ILE:CG2	2.90	0.50
1:f:184:THR:HG21	1:f:483:PRO:HD2	1.93	0.50
1:h:184:THR:HG21	1:h:483:PRO:HD2	1.93	0.50
1:p:184:THR:HG21	1:p:483:PRO:HD2	1.93	0.50
1:2:231:LEU:CD2	1:2:371:ILE:CG2	2.90	0.50
1:8:255:ASP:OD1	1:8:257:THR:OG1	2.29	0.50
1:9:57:SER:OG	1:G:57:SER:N	2.45	0.50
1:D:231:LEU:CD2	1:D:371:ILE:CG2	2.90	0.50
1:J:45:THR:HG22	1:J:45:THR:O	2.11	0.50
1:P:45:THR:O	1:P:45:THR:HG22	2.11	0.50
1:R:231:LEU:CD2	1:R:371:ILE:CG2	2.90	0.50
1:V:184:THR:HG21	1:V:483:PRO:HD2	1.93	0.50
1:X:231:LEU:CD2	1:X:371:ILE:HG23	2.37	0.50
1:l:231:LEU:CD2	1:l:371:ILE:CG2	2.90	0.50
1:w:45:THR:HG22	1:w:45:THR:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:231:LEU:CD2	1:5:371:ILE:CG2	2.90	0.50
1:6:358:ASP:CG	1:6:360:LYS:H	2.18	0.50
1:A:184:THR:HG21	1:A:483:PRO:HD2	1.93	0.50
1:E:255:ASP:OD1	1:E:257:THR:OG1	2.29	0.50
1:G:450:GLU:CG	1:h:450:GLU:OE1	2.60	0.50
1:J:450:GLU:HG2	1:Y:451:GLN:HB3	1.92	0.50
1:K:231:LEU:CD2	1:K:371:ILE:CG2	2.90	0.50
1:N:255:ASP:OD1	1:N:257:THR:OG1	2.29	0.50
1:O:371:ILE:O	1:O:371:ILE:HG22	2.12	0.50
1:R:46:GLU:OE1	1:T:541:ARG:HB2	2.12	0.50
1:R:184:THR:HG21	1:R:483:PRO:HD2	1.93	0.50
1:V:231:LEU:CD2	1:V:371:ILE:CG2	2.90	0.50
1:V:255:ASP:OD1	1:V:257:THR:OG1	2.29	0.50
1:a:231:LEU:CD2	1:a:371:ILE:CG2	2.90	0.50
1:b:371:ILE:O	1:b:371:ILE:HG22	2.12	0.50
1:e:45:THR:O	1:e:45:THR:HG22	2.11	0.50
1:j:231:LEU:CD2	1:j:371:ILE:CG2	2.90	0.50
1:m:231:LEU:CD2	1:m:371:ILE:CG2	2.90	0.50
1:u:358:ASP:CG	1:u:359:SER:N	2.63	0.50
1:w:255:ASP:OD1	1:w:257:THR:OG1	2.29	0.50
1:5:231:LEU:CD2	1:5:371:ILE:HG23	2.37	0.50
1:6:184:THR:HG21	1:6:483:PRO:HD2	1.93	0.50
1:B:57:SER:N	1:h:57:SER:OG	2.45	0.50
1:C:46:GLU:OE1	1:E:541:ARG:HB2	2.11	0.50
1:D:255:ASP:OD1	1:D:257:THR:OG1	2.29	0.50
1:E:45:THR:O	1:E:45:THR:HG22	2.11	0.50
1:E:184:THR:HG21	1:E:483:PRO:HD2	1.93	0.50
1:H:45:THR:O	1:H:45:THR:HG22	2.11	0.50
1:I:358:ASP:CG	1:I:360:LYS:H	2.18	0.50
1:I:358:ASP:N	1:I:362:ARG:O	2.38	0.50
1:O:45:THR:HG22	1:O:45:THR:O	2.11	0.50
1:P:231:LEU:CD2	1:P:371:ILE:CG2	2.90	0.50
1:Q:358:ASP:N	1:Q:362:ARG:O	2.38	0.50
1:Z:358:ASP:N	1:Z:362:ARG:O	2.38	0.50
1:a:422:THR:HG22	1:p:53:TYR:CG	2.47	0.50
1:e:255:ASP:OD1	1:e:257:THR:OG1	2.29	0.50
1:i:53:TYR:CG	1:v:422:THR:HG22	2.46	0.50
1:j:255:ASP:OD1	1:j:257:THR:OG1	2.29	0.50
1:r:255:ASP:OD1	1:r:257:THR:OG1	2.29	0.50
1:v:231:LEU:CD2	1:v:371:ILE:CG2	2.90	0.50
1:y:45:THR:O	1:y:45:THR:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:57:SER:OG	1:y:57:SER:N	2.45	0.49
1:A:358:ASP:N	1:A:362:ARG:O	2.38	0.49
1:C:231:LEU:CD2	1:C:371:ILE:CG2	2.90	0.49
1:E:296:ASP:C	1:E:298:TYR:N	2.70	0.49
1:J:422:THR:HG22	1:Y:53:TYR:CD2	2.46	0.49
1:K:296:ASP:C	1:K:298:TYR:N	2.70	0.49
1:M:255:ASP:OD1	1:M:257:THR:OG1	2.29	0.49
1:N:45:THR:O	1:N:45:THR:HG22	2.11	0.49
1:O:296:ASP:C	1:O:298:TYR:N	2.70	0.49
1:Q:213:GLY:HA3	1:Q:252:CYS:SG	2.52	0.49
1:W:231:LEU:CD2	1:W:371:ILE:CG2	2.90	0.49
1:Y:371:ILE:O	1:Y:371:ILE:HG22	2.12	0.49
1:c:371:ILE:HG22	1:c:371:ILE:O	2.12	0.49
1:s:255:ASP:OD1	1:s:257:THR:OG1	2.29	0.49
1:w:296:ASP:C	1:w:298:TYR:N	2.70	0.49
1:3:371:ILE:O	1:3:371:ILE:HG22	2.12	0.49
1:4:45:THR:O	1:4:45:THR:HG22	2.11	0.49
1:5:371:ILE:HG22	1:5:371:ILE:O	2.12	0.49
1:C:450:GLU:CG	1:y:450:GLU:OE1	2.59	0.49
1:F:213:GLY:HA3	1:F:252:CYS:SG	2.53	0.49
1:G:231:LEU:CD2	1:G:371:ILE:HG23	2.37	0.49
1:G:371:ILE:O	1:G:371:ILE:HG22	2.12	0.49
1:H:231:LEU:CD2	1:H:371:ILE:CG2	2.90	0.49
1:I:451:GLN:HB3	1:Z:450:GLU:HG2	1.95	0.49
1:P:450:GLU:HG2	1:d:451:GLN:HB3	1.94	0.49
1:R:450:GLU:HG2	1:v:451:GLN:HB3	1.94	0.49
1:W:184:THR:HG21	1:W:483:PRO:HD2	1.93	0.49
1:Y:57:SER:OG	1:i:57:SER:N	2.45	0.49
1:d:231:LEU:CD2	1:d:371:ILE:CG2	2.90	0.49
1:d:371:ILE:O	1:d:371:ILE:HG22	2.12	0.49
1:f:213:GLY:HA3	1:f:252:CYS:SG	2.52	0.49
1:g:231:LEU:CD2	1:g:371:ILE:CG2	2.90	0.49
1:i:45:THR:O	1:i:45:THR:HG22	2.11	0.49
1:j:184:THR:HG21	1:j:483:PRO:HD2	1.93	0.49
1:n:296:ASP:C	1:n:298:TYR:N	2.70	0.49
1:o:371:ILE:O	1:o:371:ILE:HG22	2.12	0.49
1:p:371:ILE:HG22	1:p:371:ILE:O	2.12	0.49
1:r:231:LEU:CD2	1:r:371:ILE:CG2	2.90	0.49
1:s:213:GLY:HA3	1:s:252:CYS:SG	2.52	0.49
1:4:231:LEU:CD2	1:4:371:ILE:CG2	2.90	0.49
1:6:231:LEU:CD2	1:6:371:ILE:CG2	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:451:GLN:HB3	1:t:450:GLU:HG2	1.94	0.49
1:A:371:ILE:O	1:A:371:ILE:HG22	2.12	0.49
1:B:371:ILE:O	1:B:371:ILE:HG22	2.12	0.49
1:C:184:THR:HG21	1:C:483:PRO:HD2	1.93	0.49
1:D:541:ARG:HB2	1:q:46:GLU:OE1	2.12	0.49
1:F:450:GLU:HG2	1:H:451:GLN:HB3	1.93	0.49
1:G:96:ASP:HB2	1:n:426:THR:HG23	1.93	0.49
1:I:45:THR:HG22	1:I:45:THR:O	2.11	0.49
1:I:255:ASP:OD1	1:I:257:THR:OG1	2.29	0.49
1:J:53:TYR:CG	1:o:422:THR:HG22	2.47	0.49
1:R:45:THR:HG22	1:R:45:THR:O	2.11	0.49
1:T:57:SER:N	1:k:57:SER:OG	2.46	0.49
1:Y:96:ASP:HB2	1:v:426:THR:HG23	1.94	0.49
1:h:213:GLY:HA3	1:h:252:CYS:SG	2.52	0.49
1:h:231:LEU:CD2	1:h:371:ILE:CG2	2.90	0.49
1:o:231:LEU:CD2	1:o:371:ILE:CG2	2.90	0.49
1:q:184:THR:HG21	1:q:483:PRO:HD2	1.93	0.49
1:q:231:LEU:CD2	1:q:371:ILE:CG2	2.90	0.49
1:u:45:THR:HG22	1:u:45:THR:O	2.11	0.49
1:x:45:THR:O	1:x:45:THR:HG22	2.11	0.49
1:3:213:GLY:HA3	1:3:252:CYS:SG	2.53	0.49
1:3:541:ARG:HB2	1:O:46:GLU:OE1	2.13	0.49
1:7:231:LEU:CD2	1:7:371:ILE:CG2	2.90	0.49
1:7:231:LEU:CD2	1:7:371:ILE:HG23	2.37	0.49
1:B:358:ASP:CG	1:B:359:SER:N	2.63	0.49
1:C:53:TYR:CD2	1:E:422:THR:HG22	2.47	0.49
1:C:53:TYR:CG	1:E:422:THR:HG22	2.47	0.49
1:C:450:GLU:OE1	1:E:450:GLU:HG3	2.12	0.49
1:E:213:GLY:HA3	1:E:252:CYS:SG	2.52	0.49
1:I:211:ASP:O	1:I:249:LEU:HD11	2.02	0.49
1:J:541:ARG:HB2	1:Y:46:GLU:OE1	2.13	0.49
1:L:371:ILE:O	1:L:371:ILE:HG22	2.12	0.49
1:N:213:GLY:HA3	1:N:252:CYS:SG	2.53	0.49
1:N:296:ASP:C	1:N:298:TYR:N	2.70	0.49
1:P:213:GLY:HA3	1:P:252:CYS:SG	2.53	0.49
1:Q:53:TYR:CG	1:l:422:THR:HG22	2.46	0.49
1:W:213:GLY:HA3	1:W:252:CYS:SG	2.53	0.49
1:X:45:THR:O	1:X:45:THR:HG22	2.11	0.49
1:Y:450:GLU:CG	1:g:450:GLU:OE1	2.60	0.49
1:Z:231:LEU:CD2	1:Z:371:ILE:CG2	2.90	0.49
1:a:92:VAL:O	1:x:422:THR:OG1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:231:LEU:CD2	1:c:371:ILE:CG2	2.90	0.49
1:f:231:LEU:CD2	1:f:371:ILE:CG2	2.90	0.49
1:k:422:THR:HG22	1:w:53:TYR:CG	2.47	0.49
1:l:371:ILE:O	1:l:371:ILE:HG22	2.12	0.49
1:q:358:ASP:N	1:q:362:ARG:O	2.38	0.49
1:u:231:LEU:CD2	1:u:371:ILE:CG2	2.90	0.49
1:u:231:LEU:CD2	1:u:371:ILE:HG23	2.37	0.49
1:u:255:ASP:OD1	1:u:257:THR:OG1	2.29	0.49
1:z:231:LEU:CD2	1:z:371:ILE:CG2	2.90	0.49
1:1:296:ASP:C	1:1:298:TYR:N	2.70	0.49
1:1:371:ILE:O	1:1:371:ILE:HG22	2.12	0.49
1:2:45:THR:O	1:2:45:THR:HG22	2.11	0.49
1:2:422:THR:OG1	1:F:92:VAL:O	2.24	0.49
1:4:371:ILE:O	1:4:371:ILE:HG22	2.12	0.49
1:6:53:TYR:CG	1:M:422:THR:HG22	2.48	0.49
1:7:45:THR:HG22	1:7:45:THR:O	2.11	0.49
1:F:231:LEU:CD2	1:F:371:ILE:CG2	2.90	0.49
1:F:371:ILE:O	1:F:371:ILE:HG22	2.12	0.49
1:H:296:ASP:C	1:H:298:TYR:N	2.70	0.49
1:K:213:GLY:HA3	1:K:252:CYS:SG	2.53	0.49
1:K:358:ASP:CG	1:K:359:SER:N	2.63	0.49
1:M:371:ILE:HG22	1:M:371:ILE:O	2.12	0.49
1:O:213:GLY:HA3	1:O:252:CYS:SG	2.53	0.49
1:P:541:ARG:HB2	1:d:46:GLU:OE1	2.13	0.49
1:Q:184:THR:HG21	1:Q:483:PRO:HD2	1.93	0.49
1:W:57:SER:N	1:p:57:SER:OG	2.46	0.49
1:X:46:GLU:OE1	1:w:541:ARG:HB2	2.13	0.49
1:g:45:THR:HG22	1:g:45:THR:O	2.11	0.49
1:i:213:GLY:HA3	1:i:252:CYS:SG	2.53	0.49
1:n:45:THR:O	1:n:45:THR:HG22	2.11	0.49
1:n:213:GLY:HA3	1:n:252:CYS:SG	2.52	0.49
1:o:45:THR:HG22	1:o:45:THR:O	2.11	0.49
1:t:45:THR:O	1:t:45:THR:HG22	2.11	0.49
1:1:231:LEU:CD2	1:1:371:ILE:HG23	2.37	0.49
1:E:231:LEU:CD2	1:E:371:ILE:HG23	2.37	0.49
1:H:213:GLY:HA3	1:H:252:CYS:SG	2.52	0.49
1:I:371:ILE:O	1:I:371:ILE:HG22	2.12	0.49
1:K:422:THR:HG22	1:k:53:TYR:CD2	2.47	0.49
1:L:45:THR:HG22	1:L:45:THR:O	2.11	0.49
1:M:45:THR:O	1:M:45:THR:HG22	2.11	0.49
1:P:451:GLN:HB3	1:z:450:GLU:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:296:ASP:C	1:Q:298:TYR:N	2.70	0.49
1:R:213:GLY:HA3	1:R:252:CYS:SG	2.52	0.49
1:W:92:VAL:O	1:q:422:THR:OG1	2.20	0.49
1:a:451:GLN:HB3	1:x:450:GLU:HG2	1.93	0.49
1:g:213:GLY:HA3	1:g:252:CYS:SG	2.52	0.49
1:i:231:LEU:CD2	1:i:371:ILE:CG2	2.90	0.49
1:n:231:LEU:CD2	1:n:371:ILE:HG23	2.37	0.49
1:t:231:LEU:CD2	1:t:371:ILE:CG2	2.90	0.49
1:w:231:LEU:CD2	1:w:371:ILE:HG23	2.37	0.49
1:x:213:GLY:HA3	1:x:252:CYS:SG	2.52	0.49
1:x:371:ILE:HG22	1:x:371:ILE:O	2.12	0.49
1:1:231:LEU:CD2	1:1:371:ILE:CG2	2.90	0.49
1:4:358:ASP:CG	1:4:359:SER:N	2.63	0.49
1:9:231:LEU:CD2	1:9:371:ILE:CG2	2.90	0.49
1:9:451:GLN:HB3	1:n:450:GLU:HG2	1.94	0.49
1:C:213:GLY:HA3	1:C:252:CYS:SG	2.53	0.49
1:C:422:THR:HG22	1:y:53:TYR:CD2	2.48	0.49
1:E:358:ASP:N	1:E:362:ARG:O	2.38	0.49
1:G:45:THR:HG22	1:G:45:THR:O	2.11	0.49
1:I:184:THR:HG21	1:I:483:PRO:HD2	1.93	0.49
1:J:422:THR:HG22	1:Y:53:TYR:CG	2.47	0.49
1:V:45:THR:O	1:V:45:THR:HG22	2.11	0.49
1:W:53:TYR:CD2	1:q:422:THR:HG22	2.47	0.49
1:Y:358:ASP:N	1:Y:362:ARG:O	2.38	0.49
1:c:450:GLU:CG	1:m:450:GLU:OE1	2.61	0.49
1:k:213:GLY:HA3	1:k:252:CYS:SG	2.52	0.49
1:l:231:LEU:CD2	1:l:371:ILE:HG23	2.37	0.49
1:t:213:GLY:HA3	1:t:252:CYS:SG	2.53	0.49
1:z:213:GLY:HA3	1:z:252:CYS:SG	2.52	0.49
1:1:213:GLY:HA3	1:1:252:CYS:SG	2.53	0.49
1:4:422:THR:HG22	1:D:53:TYR:CG	2.48	0.49
1:8:211:ASP:C	1:8:249:LEU:CD1	2.74	0.49
1:F:45:THR:O	1:F:45:THR:HG22	2.11	0.49
1:G:450:GLU:OE1	1:u:450:GLU:HG3	2.13	0.49
1:Q:45:THR:O	1:Q:45:THR:HG22	2.11	0.49
1:V:213:GLY:HA3	1:V:252:CYS:SG	2.52	0.49
1:W:45:THR:HG22	1:W:45:THR:O	2.11	0.49
1:Z:213:GLY:HA3	1:Z:252:CYS:SG	2.52	0.49
1:b:46:GLU:OE1	1:r:541:ARG:HB2	2.13	0.49
1:b:213:GLY:HA3	1:b:252:CYS:SG	2.52	0.49
1:c:422:THR:HG22	1:m:53:TYR:CG	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:45:THR:O	1:f:45:THR:HG22	2.11	0.49
1:f:255:ASP:OD1	1:f:257:THR:OG1	2.29	0.49
1:f:371:ILE:HG22	1:f:371:ILE:O	2.12	0.49
1:h:45:THR:O	1:h:45:THR:HG22	2.11	0.49
1:k:371:ILE:HG22	1:k:371:ILE:O	2.12	0.49
1:s:296:ASP:C	1:s:298:TYR:N	2.70	0.49
1:v:45:THR:O	1:v:45:THR:HG22	2.11	0.49
1:y:213:GLY:HA3	1:y:252:CYS:SG	2.53	0.49
1:1:541:ARG:HB2	1:u:46:GLU:OE1	2.13	0.49
1:2:371:ILE:HG22	1:2:371:ILE:O	2.12	0.49
1:7:450:GLU:HG2	1:l:451:GLN:HB3	1.95	0.49
1:D:358:ASP:N	1:D:362:ARG:O	2.38	0.49
1:D:371:ILE:O	1:D:371:ILE:HG22	2.12	0.49
1:F:541:ARG:HB2	1:H:46:GLU:OE1	2.13	0.49
1:J:371:ILE:O	1:J:371:ILE:HG22	2.12	0.49
1:K:450:GLU:HG2	1:k:451:GLN:HB3	1.95	0.49
1:M:213:GLY:HA3	1:M:252:CYS:SG	2.52	0.49
1:X:184:THR:HG21	1:X:483:PRO:HD2	1.93	0.49
1:a:231:LEU:CD2	1:a:371:ILE:HG23	2.37	0.49
1:a:450:GLU:OE1	1:x:450:GLU:HG3	2.12	0.49
1:e:296:ASP:C	1:e:298:TYR:N	2.70	0.49
1:i:358:ASP:N	1:i:362:ARG:O	2.39	0.49
1:m:231:LEU:CD2	1:m:371:ILE:HG23	2.37	0.49
1:p:231:LEU:CD2	1:p:371:ILE:CG2	2.90	0.49
1:u:371:ILE:O	1:u:371:ILE:HG22	2.12	0.49
1:w:371:ILE:O	1:w:371:ILE:HG22	2.12	0.49
1:x:255:ASP:OD1	1:x:257:THR:OG1	2.29	0.49
1:2:213:GLY:HA3	1:2:252:CYS:SG	2.53	0.49
1:8:213:GLY:HA3	1:8:252:CYS:SG	2.52	0.49
1:A:213:GLY:HA3	1:A:252:CYS:SG	2.53	0.49
1:C:371:ILE:HG22	1:C:371:ILE:O	2.12	0.49
1:J:213:GLY:HA3	1:J:252:CYS:SG	2.52	0.49
1:J:451:GLN:HB3	1:o:450:GLU:HG2	1.94	0.49
1:K:45:THR:O	1:K:45:THR:HG22	2.11	0.49
1:K:298:TYR:HD2	1:K:299:GLU:CG	2.20	0.49
1:W:96:ASP:HB2	1:a:426:THR:HG23	1.95	0.49
1:X:296:ASP:C	1:X:298:TYR:N	2.70	0.49
1:b:358:ASP:N	1:b:362:ARG:O	2.38	0.49
1:d:213:GLY:HA3	1:d:252:CYS:SG	2.52	0.49
1:k:231:LEU:CD2	1:k:371:ILE:CG2	2.90	0.49
1:o:213:GLY:HA3	1:o:252:CYS:SG	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:255:ASP:OD1	1:q:257:THR:OG1	2.29	0.49
1:7:213:GLY:HA3	1:7:252:CYS:SG	2.52	0.48
1:8:371:ILE:HG22	1:8:371:ILE:O	2.12	0.48
1:B:541:ARG:HB2	1:x:46:GLU:OE1	2.13	0.48
1:E:371:ILE:O	1:E:371:ILE:HG22	2.12	0.48
1:I:213:GLY:HA3	1:I:252:CYS:SG	2.52	0.48
1:J:255:ASP:OD1	1:J:257:THR:OG1	2.29	0.48
1:L:231:LEU:CD2	1:L:371:ILE:CG2	2.90	0.48
1:P:96:ASP:HB2	1:h:426:THR:HG23	1.95	0.48
1:V:96:ASP:HB2	1:Z:426:THR:HG23	1.94	0.48
1:Y:422:THR:HG22	1:g:53:TYR:CG	2.48	0.48
1:c:213:GLY:HA3	1:c:252:CYS:SG	2.53	0.48
1:j:371:ILE:O	1:j:371:ILE:HG22	2.12	0.48
1:m:371:ILE:O	1:m:371:ILE:HG22	2.12	0.48
1:n:231:LEU:CD2	1:n:371:ILE:CG2	2.90	0.48
1:o:255:ASP:OD1	1:o:257:THR:OG1	2.29	0.48
1:r:371:ILE:O	1:r:371:ILE:HG22	2.12	0.48
1:v:298:TYR:HD2	1:v:299:GLU:CG	2.20	0.48
1:w:213:GLY:HA3	1:w:252:CYS:SG	2.52	0.48
1:w:358:ASP:N	1:w:362:ARG:O	2.38	0.48
1:3:53:TYR:CG	1:d:422:THR:HG22	2.48	0.48
1:9:255:ASP:OD1	1:9:257:THR:OG1	2.29	0.48
1:9:450:GLU:HG2	1:E:451:GLN:HB3	1.95	0.48
1:D:213:GLY:HA3	1:D:252:CYS:SG	2.52	0.48
1:G:213:GLY:HA3	1:G:252:CYS:SG	2.52	0.48
1:T:213:GLY:HA3	1:T:252:CYS:SG	2.53	0.48
1:W:358:ASP:N	1:W:362:ARG:O	2.38	0.48
1:Y:213:GLY:HA3	1:Y:252:CYS:SG	2.53	0.48
1:Y:255:ASP:OD1	1:Y:257:THR:OG1	2.29	0.48
1:k:296:ASP:C	1:k:298:TYR:N	2.70	0.48
1:m:213:GLY:HA3	1:m:252:CYS:SG	2.52	0.48
1:n:358:ASP:CG	1:n:359:SER:N	2.63	0.48
1:r:213:GLY:HA3	1:r:252:CYS:SG	2.53	0.48
1:s:45:THR:O	1:s:45:THR:HG22	2.11	0.48
1:v:213:GLY:HA3	1:v:252:CYS:SG	2.53	0.48
1:z:138:LYS:NZ	1:z:175:GLU:OE2	2.35	0.48
1:4:213:GLY:HA3	1:4:252:CYS:SG	2.52	0.48
1:B:53:TYR:CG	1:f:422:THR:HG22	2.48	0.48
1:C:145:VAL:HG13	1:C:201:VAL:HG12	1.96	0.48
1:L:213:GLY:HA3	1:L:252:CYS:SG	2.52	0.48
1:S:46:GLU:OE1	1:h:541:ARG:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:96:ASP:HB2	1:z:426:THR:HG23	1.95	0.48
1:S:371:ILE:HG22	1:S:371:ILE:O	2.12	0.48
1:T:451:GLN:HB3	1:j:450:GLU:HG2	1.94	0.48
1:X:213:GLY:HA3	1:X:252:CYS:SG	2.53	0.48
1:Y:45:THR:O	1:Y:45:THR:HG22	2.11	0.48
1:k:145:VAL:HG13	1:k:201:VAL:HG12	1.96	0.48
1:n:298:TYR:HD2	1:n:299:GLU:CG	2.20	0.48
1:p:213:GLY:HA3	1:p:252:CYS:SG	2.52	0.48
1:p:231:LEU:CD2	1:p:371:ILE:HG23	2.37	0.48
1:1:53:TYR:CG	1:S:422:THR:HG22	2.47	0.48
1:2:426:THR:HG23	1:v:96:ASP:HB2	1.95	0.48
1:4:450:GLU:HG2	1:D:451:GLN:HB3	1.95	0.48
1:B:211:ASP:O	1:B:249:LEU:HD11	2.02	0.48
1:D:145:VAL:HG13	1:D:201:VAL:HG12	1.96	0.48
1:H:371:ILE:HG22	1:H:371:ILE:O	2.12	0.48
1:P:358:ASP:N	1:P:362:ARG:O	2.38	0.48
1:P:371:ILE:HG22	1:P:371:ILE:O	2.12	0.48
1:R:371:ILE:O	1:R:371:ILE:HG22	2.12	0.48
1:S:213:GLY:HA3	1:S:252:CYS:SG	2.52	0.48
1:V:145:VAL:HG13	1:V:201:VAL:HG12	1.96	0.48
1:W:255:ASP:OD1	1:W:257:THR:OG1	2.29	0.48
1:X:255:ASP:OD1	1:X:257:THR:OG1	2.29	0.48
1:a:450:GLU:HG2	1:p:451:GLN:HB3	1.95	0.48
1:b:145:VAL:HG13	1:b:201:VAL:HG12	1.96	0.48
1:b:450:GLU:OE1	1:r:450:GLU:CG	2.61	0.48
1:h:358:ASP:N	1:h:362:ARG:O	2.38	0.48
1:k:255:ASP:OD1	1:k:257:THR:OG1	2.29	0.48
1:t:298:TYR:HD2	1:t:299:GLU:CG	2.20	0.48
1:z:358:ASP:N	1:z:362:ARG:O	2.38	0.48
1:1:255:ASP:OD1	1:1:257:THR:OG1	2.29	0.48
1:3:92:VAL:O	1:d:422:THR:OG1	2.29	0.48
1:5:213:GLY:HA3	1:5:252:CYS:SG	2.53	0.48
1:6:213:GLY:HA3	1:6:252:CYS:SG	2.52	0.48
1:6:255:ASP:OD1	1:6:257:THR:OG1	2.29	0.48
1:6:296:ASP:C	1:6:298:TYR:N	2.70	0.48
1:9:213:GLY:HA3	1:9:252:CYS:SG	2.52	0.48
1:B:213:GLY:HA3	1:B:252:CYS:SG	2.52	0.48
1:K:371:ILE:HG22	1:K:371:ILE:O	2.12	0.48
1:W:371:ILE:O	1:W:371:ILE:HG22	2.12	0.48
1:a:371:ILE:O	1:a:371:ILE:HG22	2.12	0.48
1:e:213:GLY:HA3	1:e:252:CYS:SG	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:371:ILE:HG22	1:h:371:ILE:O	2.12	0.48
1:l:213:GLY:HA3	1:l:252:CYS:SG	2.53	0.48
1:m:145:VAL:HG13	1:m:201:VAL:HG12	1.96	0.48
1:q:45:THR:O	1:q:45:THR:HG22	2.11	0.48
1:s:371:ILE:O	1:s:371:ILE:HG22	2.12	0.48
1:u:145:VAL:HG13	1:u:201:VAL:HG12	1.96	0.48
1:u:213:GLY:HA3	1:u:252:CYS:SG	2.52	0.48
1:v:296:ASP:C	1:v:298:TYR:N	2.70	0.48
1:z:296:ASP:C	1:z:298:TYR:N	2.70	0.48
1:9:371:ILE:O	1:9:371:ILE:HG22	2.12	0.48
1:C:296:ASP:C	1:C:298:TYR:N	2.70	0.48
1:P:450:GLU:HG3	1:d:450:GLU:OE1	2.12	0.48
1:T:145:VAL:HG13	1:T:201:VAL:HG12	1.96	0.48
1:T:371:ILE:O	1:T:371:ILE:HG22	2.12	0.48
1:V:371:ILE:HG22	1:V:371:ILE:O	2.12	0.48
1:i:145:VAL:HG13	1:i:201:VAL:HG12	1.96	0.48
1:i:255:ASP:OD1	1:i:257:THR:OG1	2.29	0.48
1:i:298:TYR:HD2	1:i:299:GLU:CG	2.20	0.48
1:n:211:ASP:C	1:n:249:LEU:CD1	2.74	0.48
1:q:213:GLY:HA3	1:q:252:CYS:SG	2.53	0.48
1:q:371:ILE:O	1:q:371:ILE:HG22	2.12	0.48
1:x:296:ASP:C	1:x:298:TYR:N	2.70	0.48
1:y:371:ILE:HG22	1:y:371:ILE:O	2.12	0.48
1:4:96:ASP:HB2	1:i:426:THR:HG23	1.95	0.48
1:E:426:THR:HG22	1:E:428:GLN:H	1.79	0.48
1:Q:255:ASP:OD1	1:Q:257:THR:OG1	2.29	0.48
1:S:298:TYR:HD2	1:S:299:GLU:CG	2.20	0.48
1:Z:45:THR:HG22	1:Z:45:THR:O	2.11	0.48
1:e:145:VAL:HG13	1:e:201:VAL:HG12	1.96	0.48
1:e:371:ILE:O	1:e:371:ILE:HG22	2.12	0.48
1:6:371:ILE:O	1:6:371:ILE:HG22	2.12	0.48
1:G:422:THR:HG22	1:h:53:TYR:CG	2.49	0.48
1:N:145:VAL:HG13	1:N:201:VAL:HG12	1.96	0.48
1:O:422:THR:HG22	1:z:53:TYR:CG	2.49	0.48
1:Q:371:ILE:O	1:Q:371:ILE:HG22	2.12	0.48
1:T:298:TYR:HD2	1:T:299:GLU:CG	2.20	0.48
1:X:145:VAL:HG13	1:X:201:VAL:HG12	1.96	0.48
1:d:296:ASP:C	1:d:298:TYR:N	2.70	0.48
1:g:426:THR:HG22	1:g:428:GLN:H	1.79	0.48
1:j:213:GLY:HA3	1:j:252:CYS:SG	2.53	0.48
1:z:371:ILE:O	1:z:371:ILE:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:426:THR:HG22	1:z:428:GLN:H	1.79	0.48
1:2:422:THR:HG22	1:F:53:TYR:CG	2.49	0.48
1:7:255:ASP:OD1	1:7:257:THR:OG1	2.29	0.48
1:7:450:GLU:OE1	1:t:450:GLU:HG3	2.12	0.48
1:B:296:ASP:C	1:B:298:TYR:N	2.70	0.48
1:a:213:GLY:HA3	1:a:252:CYS:SG	2.53	0.48
1:j:231:LEU:CD2	1:j:371:ILE:HG23	2.37	0.48
1:j:426:THR:HG22	1:j:428:GLN:H	1.79	0.48
1:k:426:THR:HG22	1:k:428:GLN:H	1.79	0.48
1:k:450:GLU:HG2	1:w:451:GLN:HB3	1.96	0.48
1:l:145:VAL:HG13	1:l:201:VAL:HG12	1.96	0.48
1:p:296:ASP:C	1:p:298:TYR:N	2.70	0.48
1:s:426:THR:HG22	1:s:428:GLN:H	1.79	0.48
1:t:371:ILE:O	1:t:371:ILE:HG22	2.12	0.48
1:v:255:ASP:OD1	1:v:257:THR:OG1	2.29	0.48
1:4:231:LEU:CD2	1:4:371:ILE:HG23	2.37	0.48
1:5:96:ASP:HB2	1:6:426:THR:HG23	1.96	0.48
1:5:426:THR:HG22	1:5:428:GLN:H	1.79	0.48
1:7:358:ASP:N	1:7:362:ARG:O	2.38	0.48
1:A:145:VAL:HG13	1:A:201:VAL:HG12	1.96	0.48
1:A:255:ASP:OD1	1:A:257:THR:OG1	2.29	0.48
1:H:231:LEU:CD2	1:H:371:ILE:HG23	2.37	0.48
1:I:46:GLU:CD	1:Z:541:ARG:HB2	2.38	0.48
1:J:426:THR:HG22	1:J:428:GLN:H	1.79	0.48
1:L:426:THR:HG22	1:L:428:GLN:H	1.79	0.48
1:M:426:THR:HG23	1:z:96:ASP:HB2	1.95	0.48
1:P:298:TYR:HD2	1:P:299:GLU:CG	2.20	0.48
1:R:426:THR:HG22	1:R:428:GLN:H	1.79	0.48
1:V:422:THR:HG22	1:e:53:TYR:CG	2.49	0.48
1:X:211:ASP:C	1:X:249:LEU:CD1	2.74	0.48
1:Y:57:SER:N	1:i:57:SER:OG	2.46	0.48
1:d:358:ASP:N	1:d:362:ARG:O	2.38	0.48
1:j:149:THR:OG1	1:j:150:PRO:CD	2.61	0.48
1:p:96:ASP:HB2	1:q:426:THR:HG23	1.96	0.48
1:v:145:VAL:HG13	1:v:201:VAL:HG12	1.96	0.48
1:w:145:VAL:HG13	1:w:201:VAL:HG12	1.96	0.48
1:w:426:THR:HG22	1:w:428:GLN:H	1.79	0.48
1:7:57:SER:OG	1:C:57:SER:N	2.47	0.47
1:9:426:THR:HG22	1:9:428:GLN:H	1.79	0.47
1:C:255:ASP:OD1	1:C:257:THR:OG1	2.29	0.47
1:C:450:GLU:HG3	1:y:450:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:426:THR:HG22	1:P:428:GLN:H	1.79	0.47
1:W:296:ASP:C	1:W:298:TYR:N	2.70	0.47
1:f:146:SER:HB2	1:f:168:GLU:CB	2.45	0.47
1:l:57:SER:N	1:s:57:SER:OG	2.47	0.47
1:m:149:THR:OG1	1:m:150:PRO:CD	2.61	0.47
1:n:371:ILE:HG22	1:n:371:ILE:O	2.12	0.47
1:y:138:LYS:NZ	1:y:175:GLU:OE2	2.35	0.47
1:1:541:ARG:HB2	1:u:46:GLU:CD	2.39	0.47
1:2:298:TYR:HD2	1:2:299:GLU:CG	2.20	0.47
1:7:145:VAL:HG13	1:7:201:VAL:HG12	1.96	0.47
1:7:450:GLU:CG	1:l:450:GLU:OE1	2.62	0.47
1:B:426:THR:HG22	1:B:428:GLN:H	1.79	0.47
1:E:211:ASP:C	1:E:249:LEU:CD1	2.74	0.47
1:G:255:ASP:OD1	1:G:257:THR:OG1	2.29	0.47
1:L:231:LEU:CD2	1:L:371:ILE:HG23	2.37	0.47
1:M:426:THR:HG22	1:M:428:GLN:H	1.79	0.47
1:N:371:ILE:O	1:N:371:ILE:HG22	2.12	0.47
1:O:138:LYS:NZ	1:O:175:GLU:OE2	2.35	0.47
1:Q:426:THR:HG23	1:R:96:ASP:HB2	1.96	0.47
1:S:146:SER:HB2	1:S:168:GLU:CB	2.45	0.47
1:S:296:ASP:C	1:S:298:TYR:N	2.70	0.47
1:W:450:GLU:OE1	1:q:450:GLU:HG3	2.14	0.47
1:Y:426:THR:HG22	1:Y:428:GLN:H	1.79	0.47
1:Z:371:ILE:O	1:Z:371:ILE:HG22	2.12	0.47
1:a:296:ASP:C	1:a:298:TYR:N	2.70	0.47
1:d:146:SER:HB2	1:d:168:GLU:CB	2.45	0.47
1:d:231:LEU:CD2	1:d:371:ILE:HG23	2.37	0.47
1:g:145:VAL:HG13	1:g:201:VAL:HG12	1.96	0.47
1:l:426:THR:HG22	1:l:428:GLN:H	1.79	0.47
1:m:426:THR:HG22	1:m:428:GLN:H	1.79	0.47
1:r:146:SER:HB2	1:r:168:GLU:CB	2.45	0.47
1:v:146:SER:HB2	1:v:168:GLU:CB	2.45	0.47
1:2:146:SER:HB2	1:2:168:GLU:CB	2.45	0.47
1:2:426:THR:HG22	1:2:428:GLN:H	1.79	0.47
1:3:146:SER:HB2	1:3:168:GLU:CB	2.45	0.47
1:5:146:SER:HB2	1:5:168:GLU:CB	2.45	0.47
1:6:426:THR:HG22	1:6:428:GLN:H	1.79	0.47
1:7:53:TYR:CD2	1:t:422:THR:HG22	2.49	0.47
1:7:371:ILE:O	1:7:371:ILE:HG22	2.12	0.47
1:9:149:THR:OG1	1:9:150:PRO:CD	2.61	0.47
1:9:298:TYR:HD2	1:9:299:GLU:CG	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:146:SER:HB2	1:B:168:GLU:CB	2.45	0.47
1:D:426:THR:HG22	1:D:428:GLN:H	1.79	0.47
1:I:426:THR:HG22	1:I:428:GLN:H	1.79	0.47
1:K:450:GLU:CG	1:k:450:GLU:OE1	2.62	0.47
1:L:255:ASP:OD1	1:L:257:THR:OG1	2.29	0.47
1:Q:426:THR:HG22	1:Q:428:GLN:H	1.79	0.47
1:X:371:ILE:O	1:X:371:ILE:HG22	2.12	0.47
1:b:146:SER:HB2	1:b:168:GLU:CB	2.45	0.47
1:c:145:VAL:HG13	1:c:201:VAL:HG12	1.96	0.47
1:e:146:SER:HB2	1:e:168:GLU:CB	2.44	0.47
1:n:146:SER:HB2	1:n:168:GLU:CB	2.45	0.47
1:p:146:SER:HB2	1:p:168:GLU:CB	2.44	0.47
1:8:426:THR:HG22	1:8:428:GLN:H	1.79	0.47
1:A:146:SER:HB2	1:A:168:GLU:CB	2.45	0.47
1:C:426:THR:HG22	1:C:428:GLN:H	1.79	0.47
1:E:146:SER:HB2	1:E:168:GLU:CB	2.45	0.47
1:F:426:THR:HG22	1:F:428:GLN:H	1.79	0.47
1:H:146:SER:HB2	1:H:168:GLU:CB	2.45	0.47
1:J:450:GLU:HG3	1:Y:450:GLU:OE1	2.13	0.47
1:K:358:ASP:N	1:K:362:ARG:O	2.38	0.47
1:L:146:SER:HB2	1:L:168:GLU:CB	2.45	0.47
1:L:149:THR:OG1	1:L:150:PRO:CD	2.61	0.47
1:L:422:THR:HG22	1:r:53:TYR:CD2	2.50	0.47
1:O:426:THR:HG22	1:O:428:GLN:H	1.79	0.47
1:S:426:THR:HG22	1:S:428:GLN:H	1.79	0.47
1:V:296:ASP:C	1:V:298:TYR:N	2.70	0.47
1:V:426:THR:HG22	1:V:428:GLN:H	1.79	0.47
1:a:146:SER:HB2	1:a:168:GLU:CB	2.45	0.47
1:b:426:THR:HG22	1:b:428:GLN:H	1.79	0.47
1:c:426:THR:HG22	1:c:428:GLN:H	1.79	0.47
1:d:426:THR:HG22	1:d:428:GLN:H	1.79	0.47
1:f:145:VAL:HG13	1:f:201:VAL:HG12	1.96	0.47
1:g:358:ASP:N	1:g:362:ARG:O	2.38	0.47
1:j:146:SER:HB2	1:j:168:GLU:CB	2.45	0.47
1:o:211:ASP:C	1:o:249:LEU:CD1	2.74	0.47
1:p:426:THR:HG22	1:p:428:GLN:H	1.79	0.47
1:r:298:TYR:HD2	1:r:299:GLU:CG	2.20	0.47
1:s:145:VAL:HG13	1:s:201:VAL:HG12	1.96	0.47
1:v:371:ILE:HG22	1:v:371:ILE:O	2.12	0.47
1:5:298:TYR:HD2	1:5:299:GLU:CG	2.20	0.47
1:7:57:SER:N	1:C:57:SER:OG	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:296:ASP:C	1:7:298:TYR:N	2.70	0.47
1:7:426:THR:HG22	1:7:428:GLN:H	1.79	0.47
1:9:46:GLU:OE1	1:n:541:ARG:HB2	2.15	0.47
1:B:149:THR:OG1	1:B:150:PRO:CD	2.61	0.47
1:G:450:GLU:HG3	1:h:450:GLU:OE1	2.15	0.47
1:K:145:VAL:HG13	1:K:201:VAL:HG12	1.96	0.47
1:L:422:THR:HG22	1:r:53:TYR:CG	2.49	0.47
1:M:96:ASP:HB2	1:S:426:THR:HG23	1.96	0.47
1:Q:146:SER:HB2	1:Q:168:GLU:CB	2.45	0.47
1:R:255:ASP:OD1	1:R:257:THR:OG1	2.29	0.47
1:V:146:SER:HB2	1:V:168:GLU:CB	2.45	0.47
1:W:57:SER:OG	1:p:57:SER:N	2.48	0.47
1:Z:145:VAL:HG13	1:Z:201:VAL:HG12	1.96	0.47
1:a:53:TYR:CD2	1:x:422:THR:HG22	2.49	0.47
1:c:541:ARG:HB2	1:m:46:GLU:OE1	2.15	0.47
1:d:96:ASP:HB2	1:p:426:THR:HG23	1.96	0.47
1:g:296:ASP:C	1:g:298:TYR:N	2.70	0.47
1:o:146:SER:HB2	1:o:168:GLU:CB	2.45	0.47
1:o:358:ASP:N	1:o:362:ARG:O	2.38	0.47
1:p:145:VAL:HG13	1:p:201:VAL:HG12	1.96	0.47
1:u:426:THR:HG22	1:u:428:GLN:H	1.79	0.47
1:x:426:THR:HG22	1:x:428:GLN:H	1.79	0.47
1:4:300:LYS:HE3	1:4:349:LYS:O	2.15	0.47
1:6:57:SER:N	1:z:57:SER:OG	2.47	0.47
1:7:146:SER:HB2	1:7:168:GLU:CB	2.45	0.47
1:8:46:GLU:OE1	1:X:541:ARG:HB2	2.13	0.47
1:A:57:SER:N	1:R:57:SER:OG	2.48	0.47
1:K:146:SER:HB2	1:K:168:GLU:CB	2.45	0.47
1:R:146:SER:HB2	1:R:168:GLU:CB	2.45	0.47
1:T:146:SER:HB2	1:T:168:GLU:CB	2.45	0.47
1:W:298:TYR:HD2	1:W:299:GLU:CG	2.20	0.47
1:g:371:ILE:O	1:g:371:ILE:HG22	2.12	0.47
1:h:145:VAL:HG13	1:h:201:VAL:HG12	1.96	0.47
1:q:426:THR:HG22	1:q:428:GLN:H	1.79	0.47
1:v:149:THR:OG1	1:v:150:PRO:CD	2.61	0.47
1:w:146:SER:HB2	1:w:168:GLU:CB	2.45	0.47
1:z:146:SER:HB2	1:z:168:GLU:CB	2.44	0.47
1:1:228:VAL:HG23	1:1:229:THR:N	2.30	0.47
1:2:296:ASP:C	1:2:298:TYR:N	2.70	0.47
1:3:145:VAL:HG13	1:3:201:VAL:HG12	1.96	0.47
1:3:228:VAL:HG23	1:3:229:THR:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:541:ARG:HB2	1:O:46:GLU:CD	2.40	0.47
1:5:228:VAL:HG23	1:5:229:THR:N	2.30	0.47
1:5:296:ASP:C	1:5:298:TYR:N	2.70	0.47
1:6:57:SER:OG	1:z:57:SER:N	2.48	0.47
1:7:300:LYS:HE3	1:7:349:LYS:O	2.15	0.47
1:8:228:VAL:HG23	1:8:229:THR:N	2.30	0.47
1:D:146:SER:HB2	1:D:168:GLU:CB	2.45	0.47
1:E:145:VAL:HG13	1:E:201:VAL:HG12	1.96	0.47
1:F:145:VAL:HG13	1:F:201:VAL:HG12	1.96	0.47
1:G:426:THR:HG22	1:G:428:GLN:H	1.79	0.47
1:H:145:VAL:HG13	1:H:201:VAL:HG12	1.96	0.47
1:H:426:THR:HG23	1:I:96:ASP:HB2	1.97	0.47
1:J:145:VAL:HG13	1:J:201:VAL:HG12	1.96	0.47
1:J:300:LYS:HE3	1:J:349:LYS:O	2.15	0.47
1:K:149:THR:OG1	1:K:150:PRO:CD	2.61	0.47
1:L:145:VAL:HG13	1:L:201:VAL:HG12	1.96	0.47
1:L:228:VAL:HG23	1:L:229:THR:N	2.30	0.47
1:M:300:LYS:HE3	1:M:349:LYS:O	2.15	0.47
1:N:228:VAL:HG23	1:N:229:THR:N	2.30	0.47
1:N:358:ASP:N	1:N:362:ARG:O	2.38	0.47
1:P:296:ASP:C	1:P:298:TYR:N	2.70	0.47
1:S:138:LYS:NZ	1:S:175:GLU:OE2	2.35	0.47
1:T:296:ASP:C	1:T:298:TYR:N	2.70	0.47
1:T:426:THR:HG22	1:T:428:GLN:H	1.79	0.47
1:V:450:GLU:HG2	1:e:451:GLN:HB3	1.96	0.47
1:Y:146:SER:HB2	1:Y:168:GLU:CB	2.45	0.47
1:Y:228:VAL:HG23	1:Y:229:THR:N	2.30	0.47
1:Y:300:LYS:HE3	1:Y:349:LYS:O	2.15	0.47
1:Z:146:SER:HB2	1:Z:168:GLU:CB	2.45	0.47
1:Z:211:ASP:O	1:Z:249:LEU:HD11	2.02	0.47
1:Z:228:VAL:HG23	1:Z:229:THR:N	2.30	0.47
1:Z:300:LYS:HE3	1:Z:349:LYS:O	2.15	0.47
1:c:450:GLU:HG3	1:m:450:GLU:OE1	2.15	0.47
1:f:426:THR:HG22	1:f:428:GLN:H	1.79	0.47
1:h:146:SER:HB2	1:h:168:GLU:CB	2.45	0.47
1:i:296:ASP:C	1:i:298:TYR:N	2.70	0.47
1:i:371:ILE:O	1:i:371:ILE:HG22	2.12	0.47
1:j:145:VAL:HG13	1:j:201:VAL:HG12	1.96	0.47
1:s:146:SER:HB2	1:s:168:GLU:CB	2.45	0.47
1:4:146:SER:HB2	1:4:168:GLU:CB	2.45	0.47
1:8:146:SER:HB2	1:8:168:GLU:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:145:VAL:HG13	1:9:201:VAL:HG12	1.96	0.47
1:9:296:ASP:C	1:9:298:TYR:N	2.70	0.47
1:C:146:SER:HB2	1:C:168:GLU:CB	2.45	0.47
1:D:228:VAL:HG23	1:D:229:THR:N	2.30	0.47
1:J:146:SER:HB2	1:J:168:GLU:CB	2.45	0.47
1:J:426:THR:HG23	1:i:96:ASP:HB2	1.96	0.47
1:M:149:THR:OG1	1:M:150:PRO:CD	2.61	0.47
1:S:255:ASP:OD1	1:S:257:THR:OG1	2.29	0.47
1:e:426:THR:HG23	1:g:96:ASP:HB2	1.97	0.47
1:g:146:SER:HB2	1:g:168:GLU:CB	2.45	0.47
1:i:426:THR:HG22	1:i:428:GLN:H	1.79	0.47
1:k:146:SER:HB2	1:k:168:GLU:CB	2.45	0.47
1:l:296:ASP:C	1:l:298:TYR:N	2.70	0.47
1:m:146:SER:HB2	1:m:168:GLU:CB	2.45	0.47
1:o:231:LEU:CD2	1:o:371:ILE:HG23	2.37	0.47
1:p:298:TYR:HD2	1:p:299:GLU:CG	2.20	0.47
1:p:358:ASP:N	1:p:362:ARG:O	2.38	0.47
1:s:228:VAL:HG23	1:s:229:THR:N	2.30	0.47
1:t:426:THR:HG22	1:t:428:GLN:H	1.79	0.47
1:x:145:VAL:HG13	1:x:201:VAL:HG12	1.96	0.47
1:x:300:LYS:HE3	1:x:349:LYS:O	2.15	0.47
1:3:298:TYR:HD2	1:3:299:GLU:CG	2.20	0.47
1:5:422:THR:HG22	1:o:53:TYR:CG	2.49	0.47
1:8:453:VAL:HG11	1:K:451:GLN:OE1	2.15	0.47
1:A:296:ASP:C	1:A:298:TYR:N	2.70	0.47
1:G:53:TYR:CD2	1:u:422:THR:HG22	2.50	0.47
1:G:450:GLU:OE1	1:u:450:GLU:CG	2.63	0.47
1:H:228:VAL:HG23	1:H:229:THR:N	2.30	0.47
1:K:426:THR:HG22	1:K:428:GLN:H	1.79	0.47
1:M:146:SER:HB2	1:M:168:GLU:CB	2.45	0.47
1:N:146:SER:HB2	1:N:168:GLU:CB	2.45	0.47
1:O:300:LYS:HE3	1:O:349:LYS:O	2.15	0.47
1:Q:145:VAL:HG13	1:Q:201:VAL:HG12	1.96	0.47
1:T:53:TYR:CG	1:j:422:THR:HG22	2.50	0.47
1:W:146:SER:HB2	1:W:168:GLU:CB	2.45	0.47
1:Y:231:LEU:CD2	1:Y:371:ILE:HG23	2.37	0.47
1:Z:296:ASP:C	1:Z:298:TYR:N	2.70	0.47
1:c:450:GLU:HG2	1:m:451:GLN:HB3	1.96	0.47
1:f:296:ASP:C	1:f:298:TYR:N	2.70	0.47
1:g:255:ASP:OD1	1:g:257:THR:OG1	2.29	0.47
1:j:300:LYS:HE3	1:j:349:LYS:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:228:VAL:HG23	1:o:229:THR:N	2.30	0.47
1:q:228:VAL:HG23	1:q:229:THR:N	2.30	0.47
1:q:296:ASP:C	1:q:298:TYR:N	2.70	0.47
1:r:138:LYS:NZ	1:r:175:GLU:OE2	2.35	0.47
1:r:145:VAL:HG13	1:r:201:VAL:HG12	1.96	0.47
1:r:296:ASP:C	1:r:298:TYR:N	2.70	0.47
1:u:146:SER:HB2	1:u:168:GLU:CB	2.45	0.47
1:1:146:SER:HB2	1:1:168:GLU:CB	2.45	0.47
1:2:46:GLU:OE1	1:e:541:ARG:HB2	2.15	0.47
1:5:145:VAL:HG13	1:5:201:VAL:HG12	1.96	0.47
1:5:371:ILE:CG2	1:5:371:ILE:O	2.64	0.47
1:6:145:VAL:HG13	1:6:201:VAL:HG12	1.96	0.47
1:9:146:SER:HB2	1:9:168:GLU:CB	2.45	0.47
1:A:451:GLN:HB3	1:Q:450:GLU:HG2	1.97	0.47
1:B:46:GLU:OE1	1:f:541:ARG:HB2	2.15	0.47
1:B:96:ASP:HB2	1:G:426:THR:HG23	1.96	0.47
1:B:371:ILE:CG2	1:B:371:ILE:O	2.64	0.47
1:E:300:LYS:HE3	1:E:349:LYS:O	2.15	0.47
1:F:211:ASP:O	1:F:249:LEU:HD11	2.02	0.47
1:G:92:VAL:O	1:u:422:THR:OG1	2.23	0.47
1:L:96:ASP:HB2	1:g:426:THR:HG23	1.97	0.47
1:P:228:VAL:HG23	1:P:229:THR:N	2.30	0.47
1:Q:138:LYS:NZ	1:Q:175:GLU:OE2	2.35	0.47
1:S:300:LYS:HE3	1:S:349:LYS:O	2.15	0.47
1:T:300:LYS:HE3	1:T:349:LYS:O	2.15	0.47
1:X:451:GLN:HB3	1:w:450:GLU:HG2	1.97	0.47
1:c:228:VAL:HG23	1:c:229:THR:N	2.30	0.47
1:l:146:SER:HB2	1:l:168:GLU:CB	2.45	0.47
1:q:300:LYS:HE3	1:q:349:LYS:O	2.15	0.47
1:t:296:ASP:C	1:t:298:TYR:N	2.70	0.47
1:t:300:LYS:HE3	1:t:349:LYS:O	2.15	0.47
1:u:300:LYS:HE3	1:u:349:LYS:O	2.15	0.47
1:v:426:THR:HG22	1:v:428:GLN:H	1.79	0.47
1:y:296:ASP:C	1:y:298:TYR:N	2.70	0.47
1:3:426:THR:HG22	1:3:428:GLN:H	1.79	0.46
1:C:386:ASP:OD1	1:C:388:GLU:OE1	2.34	0.46
1:E:371:ILE:CG2	1:E:371:ILE:O	2.63	0.46
1:F:300:LYS:HE3	1:F:349:LYS:O	2.15	0.46
1:F:371:ILE:CG2	1:F:371:ILE:O	2.64	0.46
1:I:296:ASP:C	1:I:298:TYR:N	2.70	0.46
1:O:146:SER:HB2	1:O:168:GLU:CB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:386:ASP:OD1	1:P:388:GLU:OE1	2.34	0.46
1:R:386:ASP:OD1	1:R:388:GLU:OE1	2.34	0.46
1:S:228:VAL:HG23	1:S:229:THR:N	2.30	0.46
1:S:451:GLN:OE1	1:h:453:VAL:HG11	2.14	0.46
1:T:450:GLU:OE1	1:j:450:GLU:CG	2.63	0.46
1:W:145:VAL:HG13	1:W:201:VAL:HG12	1.96	0.46
1:X:300:LYS:HE3	1:X:349:LYS:O	2.15	0.46
1:a:149:THR:OG1	1:a:150:PRO:CD	2.61	0.46
1:a:228:VAL:HG23	1:a:229:THR:N	2.30	0.46
1:a:426:THR:HG22	1:a:428:GLN:H	1.79	0.46
1:b:228:VAL:HG23	1:b:229:THR:N	2.30	0.46
1:b:296:ASP:C	1:b:298:TYR:N	2.70	0.46
1:d:228:VAL:HG23	1:d:229:THR:N	2.30	0.46
1:e:228:VAL:HG23	1:e:229:THR:N	2.30	0.46
1:e:426:THR:HG22	1:e:428:GLN:H	1.79	0.46
1:h:228:VAL:HG23	1:h:229:THR:N	2.30	0.46
1:i:228:VAL:HG23	1:i:229:THR:N	2.30	0.46
1:j:386:ASP:OD1	1:j:388:GLU:OE1	2.34	0.46
1:m:358:ASP:N	1:m:362:ARG:O	2.39	0.46
1:m:386:ASP:OD1	1:m:388:GLU:OE1	2.34	0.46
1:n:228:VAL:HG23	1:n:229:THR:N	2.30	0.46
1:o:296:ASP:C	1:o:298:TYR:N	2.70	0.46
1:o:300:LYS:HE3	1:o:349:LYS:O	2.15	0.46
1:3:300:LYS:HE3	1:3:349:LYS:O	2.15	0.46
1:4:296:ASP:C	1:4:298:TYR:N	2.70	0.46
1:7:228:VAL:HG23	1:7:229:THR:N	2.30	0.46
1:7:422:THR:HG22	1:l:53:TYR:CG	2.51	0.46
1:A:145:VAL:O	1:A:145:VAL:HG12	2.16	0.46
1:C:300:LYS:HE3	1:C:349:LYS:O	2.15	0.46
1:F:149:THR:OG1	1:F:150:PRO:CD	2.61	0.46
1:F:386:ASP:OD1	1:F:388:GLU:OE1	2.34	0.46
1:G:146:SER:HB2	1:G:168:GLU:CB	2.45	0.46
1:H:300:LYS:HE3	1:H:349:LYS:O	2.15	0.46
1:I:146:SER:HB2	1:I:168:GLU:CB	2.45	0.46
1:I:371:ILE:CG2	1:I:371:ILE:O	2.63	0.46
1:J:386:ASP:OD1	1:J:388:GLU:OE1	2.34	0.46
1:K:300:LYS:HE3	1:K:349:LYS:O	2.15	0.46
1:L:296:ASP:C	1:L:298:TYR:N	2.70	0.46
1:M:145:VAL:HG21	1:M:170:GLU:HG2	1.98	0.46
1:M:228:VAL:HG23	1:M:229:THR:N	2.30	0.46
1:N:46:GLU:OE1	1:W:541:ARG:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:426:THR:HG23	1:j:96:ASP:HB2	1.97	0.46
1:O:145:VAL:HG21	1:O:170:GLU:HG2	1.98	0.46
1:O:386:ASP:OD1	1:O:388:GLU:OE1	2.34	0.46
1:P:146:SER:HB2	1:P:168:GLU:CB	2.45	0.46
1:R:145:VAL:HG21	1:R:170:GLU:HG2	1.98	0.46
1:R:300:LYS:HE3	1:R:349:LYS:O	2.15	0.46
1:S:358:ASP:N	1:S:362:ARG:O	2.38	0.46
1:V:228:VAL:HG23	1:V:229:THR:N	2.30	0.46
1:W:228:VAL:HG23	1:W:229:THR:N	2.30	0.46
1:W:450:GLU:OE1	1:q:450:GLU:CG	2.63	0.46
1:X:371:ILE:CG2	1:X:371:ILE:O	2.63	0.46
1:Y:453:VAL:HG11	1:g:451:GLN:OE1	2.15	0.46
1:Z:57:SER:N	1:b:57:SER:OG	2.49	0.46
1:b:300:LYS:HE3	1:b:349:LYS:O	2.15	0.46
1:c:145:VAL:HG12	1:c:145:VAL:O	2.16	0.46
1:c:386:ASP:OD1	1:c:388:GLU:OE1	2.34	0.46
1:e:57:SER:HA	1:e:58:PRO:HD2	1.81	0.46
1:h:386:ASP:OD1	1:h:388:GLU:OE1	2.34	0.46
1:i:145:VAL:HG21	1:i:170:GLU:HG2	1.98	0.46
1:i:145:VAL:O	1:i:145:VAL:HG12	2.16	0.46
1:i:371:ILE:CG2	1:i:371:ILE:O	2.63	0.46
1:k:228:VAL:HG23	1:k:229:THR:N	2.30	0.46
1:k:300:LYS:HE3	1:k:349:LYS:O	2.15	0.46
1:l:145:VAL:HG21	1:l:170:GLU:HG2	1.98	0.46
1:r:149:THR:OG1	1:r:150:PRO:CD	2.61	0.46
1:r:300:LYS:HE3	1:r:349:LYS:O	2.15	0.46
1:s:371:ILE:CG2	1:s:371:ILE:O	2.64	0.46
1:t:145:VAL:O	1:t:145:VAL:HG12	2.16	0.46
1:u:149:THR:OG1	1:u:150:PRO:CD	2.61	0.46
1:w:371:ILE:CG2	1:w:371:ILE:O	2.63	0.46
1:y:146:SER:HB2	1:y:168:GLU:CB	2.45	0.46
1:y:371:ILE:CG2	1:y:371:ILE:O	2.64	0.46
1:1:386:ASP:OD1	1:1:388:GLU:OE1	2.34	0.46
1:1:450:GLU:HG2	1:u:451:GLN:HB3	1.97	0.46
1:2:450:GLU:OE1	1:e:450:GLU:CG	2.63	0.46
1:6:358:ASP:N	1:6:362:ARG:O	2.38	0.46
1:D:300:LYS:HE3	1:D:349:LYS:O	2.15	0.46
1:D:371:ILE:CG2	1:D:371:ILE:O	2.64	0.46
1:F:296:ASP:C	1:F:298:TYR:N	2.70	0.46
1:G:228:VAL:HG23	1:G:229:THR:N	2.30	0.46
1:H:371:ILE:CG2	1:H:371:ILE:O	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:296:ASP:C	1:J:298:TYR:N	2.70	0.46
1:K:149:THR:HG1	1:K:150:PRO:HD3	1.77	0.46
1:K:422:THR:HG22	1:k:53:TYR:CG	2.51	0.46
1:L:541:ARG:HB2	1:r:46:GLU:CD	2.40	0.46
1:M:450:GLU:OE1	1:b:450:GLU:CG	2.63	0.46
1:N:371:ILE:CG2	1:N:371:ILE:O	2.64	0.46
1:N:386:ASP:OD1	1:N:388:GLU:OE1	2.34	0.46
1:P:145:VAL:O	1:P:145:VAL:HG12	2.16	0.46
1:R:371:ILE:CG2	1:R:371:ILE:O	2.63	0.46
1:W:300:LYS:HE3	1:W:349:LYS:O	2.15	0.46
1:X:145:VAL:O	1:X:145:VAL:HG12	2.16	0.46
1:Z:426:THR:HG22	1:Z:428:GLN:H	1.79	0.46
1:a:300:LYS:HE3	1:a:349:LYS:O	2.15	0.46
1:b:386:ASP:OD1	1:b:388:GLU:OE1	2.34	0.46
1:c:300:LYS:HE3	1:c:349:LYS:O	2.15	0.46
1:e:57:SER:OG	1:r:57:SER:N	2.48	0.46
1:e:300:LYS:HE3	1:e:349:LYS:O	2.15	0.46
1:g:300:LYS:HE3	1:g:349:LYS:O	2.15	0.46
1:i:450:GLU:OE1	1:v:450:GLU:CG	2.63	0.46
1:j:371:ILE:CG2	1:j:371:ILE:O	2.64	0.46
1:j:426:THR:HG23	1:k:96:ASP:HB2	1.98	0.46
1:o:386:ASP:OD1	1:o:388:GLU:OE1	2.34	0.46
1:o:426:THR:HG22	1:o:428:GLN:H	1.79	0.46
1:t:146:SER:HB2	1:t:168:GLU:CB	2.45	0.46
1:w:145:VAL:HG21	1:w:170:GLU:HG2	1.98	0.46
1:y:145:VAL:HG13	1:y:201:VAL:HG12	1.96	0.46
1:y:228:VAL:HG23	1:y:229:THR:N	2.30	0.46
1:y:300:LYS:HE3	1:y:349:LYS:O	2.15	0.46
1:z:145:VAL:HG21	1:z:170:GLU:HG2	1.98	0.46
1:1:145:VAL:HG21	1:1:170:GLU:HG2	1.98	0.46
1:1:371:ILE:CG2	1:1:371:ILE:O	2.64	0.46
1:1:426:THR:HG23	1:m:96:ASP:HB2	1.95	0.46
1:2:358:ASP:N	1:2:362:ARG:O	2.38	0.46
1:3:386:ASP:OD1	1:3:388:GLU:OE1	2.34	0.46
1:3:450:GLU:CG	1:O:450:GLU:OE1	2.63	0.46
1:4:149:THR:OG1	1:4:150:PRO:CD	2.61	0.46
1:4:371:ILE:CG2	1:4:371:ILE:O	2.63	0.46
1:4:426:THR:HG23	1:J:96:ASP:HB2	1.98	0.46
1:4:451:GLN:HB3	1:N:450:GLU:HG2	1.98	0.46
1:6:145:VAL:O	1:6:145:VAL:HG12	2.16	0.46
1:6:146:SER:HB2	1:6:168:GLU:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:300:LYS:HE3	1:6:349:LYS:O	2.15	0.46
1:7:386:ASP:OD1	1:7:388:GLU:OE1	2.34	0.46
1:8:145:VAL:HG12	1:8:145:VAL:O	2.16	0.46
1:9:145:VAL:HG21	1:9:170:GLU:HG2	1.98	0.46
1:B:46:GLU:CD	1:f:541:ARG:HB2	2.41	0.46
1:D:145:VAL:O	1:D:145:VAL:HG12	2.16	0.46
1:L:145:VAL:O	1:L:145:VAL:HG12	2.16	0.46
1:Q:145:VAL:HG21	1:Q:170:GLU:HG2	1.98	0.46
1:R:145:VAL:HG13	1:R:201:VAL:HG12	1.95	0.46
1:T:145:VAL:O	1:T:145:VAL:HG12	2.16	0.46
1:X:145:VAL:HG21	1:X:170:GLU:HG2	1.98	0.46
1:X:149:THR:OG1	1:X:150:PRO:CD	2.61	0.46
1:Z:371:ILE:CG2	1:Z:371:ILE:O	2.64	0.46
1:a:255:ASP:OD1	1:a:257:THR:OG1	2.29	0.46
1:d:145:VAL:HG13	1:d:201:VAL:HG12	1.96	0.46
1:d:145:VAL:O	1:d:145:VAL:HG12	2.16	0.46
1:d:300:LYS:HE3	1:d:349:LYS:O	2.15	0.46
1:d:371:ILE:CG2	1:d:371:ILE:O	2.63	0.46
1:f:138:LYS:NZ	1:f:175:GLU:OE2	2.35	0.46
1:f:371:ILE:CG2	1:f:371:ILE:O	2.63	0.46
1:g:386:ASP:OD1	1:g:388:GLU:OE1	2.34	0.46
1:i:146:SER:HB2	1:i:168:GLU:CB	2.45	0.46
1:i:300:LYS:HE3	1:i:349:LYS:O	2.15	0.46
1:k:386:ASP:OD1	1:k:388:GLU:OE1	2.34	0.46
1:n:426:THR:HG22	1:n:428:GLN:H	1.79	0.46
1:s:386:ASP:OD1	1:s:388:GLU:OE1	2.34	0.46
1:x:386:ASP:OD1	1:x:388:GLU:OE1	2.34	0.46
1:y:386:ASP:OD1	1:y:388:GLU:OE1	2.34	0.46
1:1:145:VAL:O	1:1:145:VAL:HG12	2.16	0.46
1:3:255:ASP:OD1	1:3:257:THR:OG1	2.29	0.46
1:4:228:VAL:HG23	1:4:229:THR:N	2.30	0.46
1:4:386:ASP:OD1	1:4:388:GLU:OE1	2.34	0.46
1:5:145:VAL:HG21	1:5:170:GLU:HG2	1.98	0.46
1:5:255:ASP:OD1	1:5:257:THR:OG1	2.29	0.46
1:5:386:ASP:OD1	1:5:388:GLU:OE1	2.34	0.46
1:6:386:ASP:OD1	1:6:388:GLU:OE1	2.34	0.46
1:7:450:GLU:HG3	1:l:450:GLU:OE1	2.15	0.46
1:8:386:ASP:OD1	1:8:388:GLU:OE1	2.34	0.46
1:9:371:ILE:CG2	1:9:371:ILE:O	2.64	0.46
1:A:371:ILE:CG2	1:A:371:ILE:O	2.64	0.46
1:A:426:THR:HG22	1:A:428:GLN:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:371:ILE:CG2	1:C:371:ILE:O	2.64	0.46
1:F:228:VAL:HG23	1:F:229:THR:N	2.30	0.46
1:I:228:VAL:HG23	1:I:229:THR:N	2.30	0.46
1:I:300:LYS:HE3	1:I:349:LYS:O	2.15	0.46
1:L:145:VAL:HG21	1:L:170:GLU:HG2	1.98	0.46
1:L:371:ILE:CG2	1:L:371:ILE:O	2.63	0.46
1:L:386:ASP:OD1	1:L:388:GLU:OE1	2.34	0.46
1:P:371:ILE:CG2	1:P:371:ILE:O	2.64	0.46
1:Q:300:LYS:HE3	1:Q:349:LYS:O	2.15	0.46
1:R:451:GLN:HB3	1:T:450:GLU:HG2	1.98	0.46
1:T:57:SER:HA	1:T:58:PRO:HD2	1.81	0.46
1:W:426:THR:HG22	1:W:428:GLN:H	1.79	0.46
1:X:146:SER:HB2	1:X:168:GLU:CB	2.44	0.46
1:Y:386:ASP:OD1	1:Y:388:GLU:OE1	2.34	0.46
1:a:371:ILE:CG2	1:a:371:ILE:O	2.63	0.46
1:a:541:ARG:HB2	1:p:46:GLU:OE1	2.16	0.46
1:b:145:VAL:O	1:b:145:VAL:HG12	2.16	0.46
1:c:146:SER:HB2	1:c:168:GLU:CB	2.44	0.46
1:h:145:VAL:HG21	1:h:170:GLU:HG2	1.98	0.46
1:h:426:THR:HG22	1:h:428:GLN:H	1.79	0.46
1:r:426:THR:HG22	1:r:428:GLN:H	1.79	0.46
1:u:145:VAL:O	1:u:145:VAL:HG12	2.16	0.46
1:u:371:ILE:CG2	1:u:371:ILE:O	2.63	0.46
1:u:386:ASP:OD1	1:u:388:GLU:OE1	2.34	0.46
1:w:298:TYR:HD2	1:w:299:GLU:CG	2.20	0.46
1:w:300:LYS:HE3	1:w:349:LYS:O	2.15	0.46
1:y:426:THR:HG22	1:y:428:GLN:H	1.79	0.46
1:z:145:VAL:O	1:z:145:VAL:HG12	2.16	0.46
1:1:300:LYS:HE3	1:1:349:LYS:O	2.15	0.46
1:2:145:VAL:HG21	1:2:170:GLU:HG2	1.98	0.46
1:2:300:LYS:HE3	1:2:349:LYS:O	2.15	0.46
1:2:371:ILE:CG2	1:2:371:ILE:O	2.64	0.46
1:3:145:VAL:O	1:3:145:VAL:HG12	2.16	0.46
1:6:541:ARG:HB2	1:L:46:GLU:OE1	2.16	0.46
1:A:300:LYS:HE3	1:A:349:LYS:O	2.15	0.46
1:G:386:ASP:OD1	1:G:388:GLU:OE1	2.34	0.46
1:J:145:VAL:O	1:J:145:VAL:HG12	2.16	0.46
1:K:145:VAL:O	1:K:145:VAL:HG12	2.16	0.46
1:M:53:TYR:CG	1:b:422:THR:HG22	2.51	0.46
1:P:300:LYS:HE3	1:P:349:LYS:O	2.15	0.46
1:T:149:THR:OG1	1:T:150:PRO:CD	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:358:ASP:N	1:X:362:ARG:O	2.38	0.46
1:Y:296:ASP:C	1:Y:298:TYR:N	2.70	0.46
1:b:96:ASP:HB2	1:m:426:THR:HG23	1.98	0.46
1:b:145:VAL:HG21	1:b:170:GLU:HG2	1.98	0.46
1:f:228:VAL:HG23	1:f:229:THR:N	2.30	0.46
1:f:300:LYS:HE3	1:f:349:LYS:O	2.15	0.46
1:j:145:VAL:O	1:j:145:VAL:HG12	2.16	0.46
1:l:300:LYS:HE3	1:l:349:LYS:O	2.15	0.46
1:m:300:LYS:HE3	1:m:349:LYS:O	2.15	0.46
1:s:358:ASP:N	1:s:362:ARG:O	2.38	0.46
1:t:386:ASP:OD1	1:t:388:GLU:OE1	2.34	0.46
1:x:228:VAL:HG23	1:x:229:THR:N	2.30	0.46
1:y:145:VAL:O	1:y:145:VAL:HG12	2.16	0.46
1:z:300:LYS:HE3	1:z:349:LYS:O	2.15	0.46
1:1:145:VAL:HG13	1:1:201:VAL:HG12	1.96	0.46
1:1:426:THR:HG22	1:1:428:GLN:H	1.79	0.46
1:3:296:ASP:C	1:3:298:TYR:N	2.70	0.46
1:4:145:VAL:O	1:4:145:VAL:HG12	2.16	0.46
1:4:426:THR:HG22	1:4:428:GLN:H	1.79	0.46
1:7:53:TYR:CG	1:t:422:THR:HG22	2.50	0.46
1:8:371:ILE:CG2	1:8:371:ILE:O	2.64	0.46
1:9:358:ASP:N	1:9:362:ARG:O	2.38	0.46
1:C:46:GLU:CD	1:E:541:ARG:HB2	2.40	0.46
1:D:386:ASP:OD1	1:D:388:GLU:OE1	2.34	0.46
1:F:57:SER:N	1:v:57:SER:OG	2.49	0.46
1:G:296:ASP:C	1:G:298:TYR:N	2.70	0.46
1:G:300:LYS:HE3	1:G:349:LYS:O	2.15	0.46
1:H:145:VAL:HG12	1:H:145:VAL:O	2.16	0.46
1:I:145:VAL:O	1:I:145:VAL:HG12	2.16	0.46
1:Q:386:ASP:OD1	1:Q:388:GLU:OE1	2.34	0.46
1:V:300:LYS:HE3	1:V:349:LYS:O	2.15	0.46
1:k:145:VAL:HG21	1:k:170:GLU:HG2	1.98	0.46
1:l:57:SER:OG	1:s:57:SER:N	2.49	0.46
1:n:371:ILE:CG2	1:n:371:ILE:O	2.64	0.46
1:p:145:VAL:HG21	1:p:170:GLU:HG2	1.98	0.46
1:q:371:ILE:CG2	1:q:371:ILE:O	2.63	0.46
1:r:228:VAL:HG23	1:r:229:THR:N	2.30	0.46
1:r:386:ASP:OD1	1:r:388:GLU:OE1	2.34	0.46
1:w:145:VAL:O	1:w:145:VAL:HG12	2.16	0.46
1:x:358:ASP:N	1:x:362:ARG:O	2.38	0.46
1:5:145:VAL:O	1:5:145:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:145:VAL:HG21	1:6:170:GLU:HG2	1.98	0.46
1:7:371:ILE:CG2	1:7:371:ILE:O	2.64	0.46
1:8:145:VAL:HG13	1:8:201:VAL:HG12	1.96	0.46
1:8:300:LYS:HE3	1:8:349:LYS:O	2.15	0.46
1:B:145:VAL:O	1:B:145:VAL:HG12	2.16	0.46
1:B:298:TYR:HD2	1:B:299:GLU:CG	2.20	0.46
1:C:149:THR:OG1	1:C:150:PRO:CD	2.61	0.46
1:E:145:VAL:HG21	1:E:170:GLU:HG2	1.98	0.46
1:E:228:VAL:HG23	1:E:229:THR:N	2.30	0.46
1:E:386:ASP:OD1	1:E:388:GLU:OE1	2.34	0.46
1:F:146:SER:HB2	1:F:168:GLU:CB	2.45	0.46
1:G:145:VAL:O	1:G:145:VAL:HG12	2.16	0.46
1:G:371:ILE:CG2	1:G:371:ILE:O	2.64	0.46
1:J:145:VAL:HG21	1:J:170:GLU:HG2	1.98	0.46
1:K:371:ILE:CG2	1:K:371:ILE:O	2.64	0.46
1:W:386:ASP:OD1	1:W:388:GLU:OE1	2.34	0.46
1:e:145:VAL:HG21	1:e:170:GLU:HG2	1.98	0.46
1:f:386:ASP:OD1	1:f:388:GLU:OE1	2.34	0.46
1:h:300:LYS:HE3	1:h:349:LYS:O	2.15	0.46
1:k:371:ILE:CG2	1:k:371:ILE:O	2.64	0.46
1:n:145:VAL:HG21	1:n:170:GLU:HG2	1.98	0.46
1:o:371:ILE:CG2	1:o:371:ILE:O	2.64	0.46
1:r:371:ILE:CG2	1:r:371:ILE:O	2.64	0.46
1:s:300:LYS:HE3	1:s:349:LYS:O	2.15	0.46
1:y:145:VAL:HG21	1:y:170:GLU:HG2	1.98	0.46
1:z:228:VAL:HG23	1:z:229:THR:N	2.30	0.46
1:1:149:THR:OG1	1:1:150:PRO:CD	2.61	0.46
1:4:92:VAL:O	1:N:422:THR:OG1	2.29	0.46
1:7:149:THR:OG1	1:7:150:PRO:CD	2.61	0.46
1:8:296:ASP:C	1:8:298:TYR:N	2.70	0.46
1:A:386:ASP:OD1	1:A:388:GLU:OE1	2.34	0.46
1:F:298:TYR:HD2	1:F:299:GLU:CG	2.20	0.46
1:H:149:THR:OG1	1:H:150:PRO:CD	2.61	0.46
1:H:450:GLU:HG2	1:V:451:GLN:HB3	1.98	0.46
1:K:145:VAL:HG21	1:K:170:GLU:HG2	1.98	0.46
1:N:426:THR:HG22	1:N:428:GLN:H	1.79	0.46
1:N:451:GLN:OE1	1:W:453:VAL:HG11	2.16	0.46
1:V:386:ASP:OD1	1:V:388:GLU:OE1	2.34	0.46
1:X:228:VAL:HG23	1:X:229:THR:N	2.30	0.46
1:Y:145:VAL:O	1:Y:145:VAL:HG12	2.16	0.46
1:Z:386:ASP:OD1	1:Z:388:GLU:OE1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:386:ASP:OD1	1:a:388:GLU:OE1	2.34	0.46
1:c:371:ILE:CG2	1:c:371:ILE:O	2.64	0.46
1:h:371:ILE:CG2	1:h:371:ILE:O	2.64	0.46
1:p:300:LYS:HE3	1:p:349:LYS:O	2.15	0.46
1:q:149:THR:OG1	1:q:150:PRO:CD	2.61	0.46
1:r:145:VAL:O	1:r:145:VAL:HG12	2.16	0.46
1:u:296:ASP:C	1:u:298:TYR:N	2.70	0.46
1:v:228:VAL:HG23	1:v:229:THR:N	2.30	0.46
1:v:300:LYS:HE3	1:v:349:LYS:O	2.15	0.46
1:1:57:SER:N	1:M:57:SER:OG	2.49	0.46
1:3:145:VAL:HG21	1:3:170:GLU:HG2	1.98	0.46
1:4:145:VAL:HG21	1:4:170:GLU:HG2	1.98	0.46
1:5:57:SER:OG	1:L:57:SER:N	2.49	0.46
1:6:96:ASP:HB2	1:O:426:THR:HG23	1.97	0.46
1:6:228:VAL:HG23	1:6:229:THR:N	2.30	0.46
1:7:46:GLU:OE1	1:t:541:ARG:HB2	2.16	0.46
1:9:228:VAL:HG23	1:9:229:THR:N	2.30	0.46
1:9:541:ARG:HB2	1:E:46:GLU:OE1	2.16	0.46
1:D:450:GLU:CG	1:q:450:GLU:OE1	2.64	0.46
1:H:96:ASP:HB2	1:l:426:THR:HG23	1.97	0.46
1:I:145:VAL:HG13	1:I:201:VAL:HG12	1.96	0.46
1:L:300:LYS:HE3	1:L:349:LYS:O	2.15	0.46
1:M:371:ILE:CG2	1:M:371:ILE:O	2.63	0.46
1:N:300:LYS:HE3	1:N:349:LYS:O	2.15	0.46
1:O:228:VAL:HG23	1:O:229:THR:N	2.30	0.46
1:P:46:GLU:OE1	1:z:541:ARG:HB2	2.16	0.46
1:P:145:VAL:HG13	1:P:201:VAL:HG12	1.96	0.46
1:S:371:ILE:CG2	1:S:371:ILE:O	2.64	0.46
1:T:57:SER:OG	1:k:57:SER:N	2.49	0.46
1:T:386:ASP:OD1	1:T:388:GLU:OE1	2.34	0.46
1:T:450:GLU:OE1	1:j:450:GLU:HG3	2.15	0.46
1:W:145:VAL:O	1:W:145:VAL:HG12	2.16	0.46
1:W:371:ILE:CG2	1:W:371:ILE:O	2.64	0.46
1:X:426:THR:HG22	1:X:428:GLN:H	1.79	0.46
1:Y:145:VAL:HG21	1:Y:170:GLU:HG2	1.98	0.46
1:g:145:VAL:O	1:g:145:VAL:HG12	2.16	0.46
1:j:145:VAL:HG21	1:j:170:GLU:HG2	1.98	0.46
1:l:371:ILE:CG2	1:l:371:ILE:O	2.64	0.46
1:m:228:VAL:HG23	1:m:229:THR:N	2.30	0.46
1:o:145:VAL:HG21	1:o:170:GLU:HG2	1.98	0.46
1:t:145:VAL:HG13	1:t:201:VAL:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:371:ILE:CG2	1:v:371:ILE:O	2.64	0.46
1:w:386:ASP:OD1	1:w:388:GLU:OE1	2.34	0.46
1:x:145:VAL:O	1:x:145:VAL:HG12	2.16	0.46
1:x:146:SER:HB2	1:x:168:GLU:CB	2.45	0.46
1:x:371:ILE:CG2	1:x:371:ILE:O	2.64	0.46
1:2:149:THR:OG1	1:2:150:PRO:CD	2.61	0.45
1:4:145:VAL:HG13	1:4:201:VAL:HG12	1.96	0.45
1:4:229:THR:CG2	1:4:230:GLU:N	2.69	0.45
1:5:300:LYS:HE3	1:5:349:LYS:O	2.15	0.45
1:5:426:THR:HG23	1:O:96:ASP:HB2	1.99	0.45
1:6:371:ILE:CG2	1:6:371:ILE:O	2.64	0.45
1:7:145:VAL:HG21	1:7:170:GLU:HG2	1.98	0.45
1:9:300:LYS:HE3	1:9:349:LYS:O	2.15	0.45
1:9:386:ASP:OD1	1:9:388:GLU:OE1	2.34	0.45
1:B:255:ASP:OD1	1:B:257:THR:OG1	2.29	0.45
1:E:145:VAL:O	1:E:145:VAL:HG12	2.16	0.45
1:F:145:VAL:O	1:F:145:VAL:HG12	2.16	0.45
1:F:450:GLU:CG	1:H:450:GLU:OE1	2.64	0.45
1:F:541:ARG:HB2	1:H:46:GLU:CD	2.41	0.45
1:H:450:GLU:CG	1:V:450:GLU:OE1	2.64	0.45
1:I:149:THR:OG1	1:I:150:PRO:CD	2.61	0.45
1:I:386:ASP:OD1	1:I:388:GLU:OE1	2.34	0.45
1:J:228:VAL:HG23	1:J:229:THR:N	2.30	0.45
1:J:298:TYR:HD2	1:J:299:GLU:CG	2.20	0.45
1:K:426:THR:HG23	1:T:96:ASP:HB2	1.98	0.45
1:M:145:VAL:O	1:M:145:VAL:HG12	2.16	0.45
1:M:386:ASP:OD1	1:M:388:GLU:OE1	2.34	0.45
1:R:46:GLU:CD	1:T:541:ARG:HB2	2.41	0.45
1:R:145:VAL:O	1:R:145:VAL:HG12	2.16	0.45
1:S:145:VAL:HG12	1:S:145:VAL:O	2.16	0.45
1:S:386:ASP:OD1	1:S:388:GLU:OE1	2.34	0.45
1:T:371:ILE:CG2	1:T:371:ILE:O	2.64	0.45
1:W:53:TYR:CG	1:q:422:THR:HG22	2.51	0.45
1:a:96:ASP:HB2	1:w:426:THR:HG23	1.98	0.45
1:a:450:GLU:CG	1:p:450:GLU:OE1	2.64	0.45
1:d:57:SER:OG	1:f:57:SER:N	2.49	0.45
1:e:386:ASP:OD1	1:e:388:GLU:OE1	2.34	0.45
1:h:255:ASP:OD1	1:h:257:THR:OG1	2.29	0.45
1:l:145:VAL:O	1:l:145:VAL:HG12	2.16	0.45
1:m:145:VAL:HG21	1:m:170:GLU:HG2	1.98	0.45
1:n:255:ASP:OD1	1:n:257:THR:OG1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:386:ASP:OD1	1:p:388:GLU:OE1	2.34	0.45
1:q:145:VAL:HG13	1:q:201:VAL:HG12	1.96	0.45
1:q:145:VAL:O	1:q:145:VAL:HG12	2.16	0.45
1:q:146:SER:HB2	1:q:168:GLU:CB	2.45	0.45
1:q:386:ASP:OD1	1:q:388:GLU:OE1	2.34	0.45
1:t:371:ILE:CG2	1:t:371:ILE:O	2.64	0.45
1:2:145:VAL:O	1:2:145:VAL:HG12	2.16	0.45
1:2:451:GLN:OE1	1:e:453:VAL:HG11	2.15	0.45
1:7:96:ASP:HB2	1:E:426:THR:HG23	1.99	0.45
1:8:149:THR:OG1	1:8:150:PRO:CD	2.61	0.45
1:C:228:VAL:HG23	1:C:229:THR:N	2.30	0.45
1:G:450:GLU:HG2	1:h:451:GLN:HB3	1.98	0.45
1:J:358:ASP:N	1:J:362:ARG:O	2.38	0.45
1:M:145:VAL:HG13	1:M:201:VAL:HG12	1.96	0.45
1:O:358:ASP:N	1:O:362:ARG:O	2.38	0.45
1:O:371:ILE:CG2	1:O:371:ILE:O	2.64	0.45
1:Q:228:VAL:HG23	1:Q:229:THR:N	2.30	0.45
1:Q:371:ILE:CG2	1:Q:371:ILE:O	2.64	0.45
1:S:145:VAL:HG21	1:S:170:GLU:HG2	1.98	0.45
1:X:386:ASP:OD1	1:X:388:GLU:OE1	2.34	0.45
1:h:145:VAL:O	1:h:145:VAL:HG12	2.16	0.45
1:i:386:ASP:OD1	1:i:388:GLU:OE1	2.34	0.45
1:l:228:VAL:HG23	1:l:229:THR:N	2.30	0.45
1:w:228:VAL:HG23	1:w:229:THR:N	2.30	0.45
1:2:57:SER:OG	1:g:57:SER:N	2.49	0.45
1:2:386:ASP:OD1	1:2:388:GLU:OE1	2.34	0.45
1:3:371:ILE:CG2	1:3:371:ILE:O	2.64	0.45
1:B:145:VAL:HG13	1:B:201:VAL:HG12	1.96	0.45
1:B:145:VAL:HG21	1:B:170:GLU:HG2	1.98	0.45
1:B:228:VAL:HG23	1:B:229:THR:N	2.30	0.45
1:B:450:GLU:HG2	1:x:451:GLN:HB3	1.99	0.45
1:C:145:VAL:HG21	1:C:170:GLU:HG2	1.98	0.45
1:D:541:ARG:HB2	1:q:46:GLU:CD	2.41	0.45
1:E:57:SER:HA	1:E:58:PRO:HD2	1.81	0.45
1:G:53:TYR:CG	1:u:422:THR:HG22	2.51	0.45
1:G:145:VAL:HG21	1:G:170:GLU:HG2	1.98	0.45
1:H:426:THR:HG22	1:H:428:GLN:H	1.79	0.45
1:I:57:SER:N	1:V:57:SER:OG	2.49	0.45
1:K:450:GLU:HG3	1:k:450:GLU:OE1	2.15	0.45
1:N:138:LYS:NZ	1:N:175:GLU:OE2	2.35	0.45
1:O:149:THR:OG1	1:O:150:PRO:CD	2.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:145:VAL:HG21	1:P:170:GLU:HG2	1.98	0.45
1:R:138:LYS:NZ	1:R:175:GLU:OE2	2.35	0.45
1:S:145:VAL:HG13	1:S:201:VAL:HG12	1.96	0.45
1:Y:145:VAL:HG13	1:Y:201:VAL:HG12	1.96	0.45
1:g:149:THR:OG1	1:g:150:PRO:CD	2.61	0.45
1:g:228:VAL:HG23	1:g:229:THR:N	2.30	0.45
1:g:371:ILE:CG2	1:g:371:ILE:O	2.64	0.45
1:l:386:ASP:OD1	1:l:388:GLU:OE1	2.34	0.45
1:m:145:VAL:O	1:m:145:VAL:HG12	2.16	0.45
1:n:300:LYS:HE3	1:n:349:LYS:O	2.15	0.45
1:o:145:VAL:HG13	1:o:201:VAL:HG12	1.96	0.45
1:p:228:VAL:HG23	1:p:229:THR:N	2.30	0.45
1:y:255:ASP:OD1	1:y:257:THR:OG1	2.29	0.45
1:z:386:ASP:OD1	1:z:388:GLU:OE1	2.34	0.45
1:B:450:GLU:OE1	1:f:450:GLU:HG3	2.16	0.45
1:C:422:THR:HG22	1:y:53:TYR:CG	2.51	0.45
1:G:149:THR:OG1	1:G:150:PRO:CD	2.61	0.45
1:K:386:ASP:OD1	1:K:388:GLU:OE1	2.34	0.45
1:N:145:VAL:HG21	1:N:170:GLU:HG2	1.98	0.45
1:O:57:SER:N	1:o:57:SER:HG	2.15	0.45
1:O:57:SER:HA	1:O:58:PRO:HD2	1.81	0.45
1:Q:145:VAL:O	1:Q:145:VAL:HG12	2.16	0.45
1:R:228:VAL:HG11	1:v:204:GLN:NE2	2.31	0.45
1:Z:145:VAL:O	1:Z:145:VAL:HG12	2.16	0.45
1:h:296:ASP:C	1:h:298:TYR:N	2.70	0.45
1:u:228:VAL:HG23	1:u:229:THR:N	2.30	0.45
1:z:145:VAL:HG13	1:z:201:VAL:HG12	1.96	0.45
1:z:371:ILE:CG2	1:z:371:ILE:O	2.64	0.45
1:2:228:VAL:HG23	1:2:229:THR:N	2.30	0.45
1:4:57:SER:HG	1:j:57:SER:N	2.14	0.45
1:B:300:LYS:HE3	1:B:349:LYS:O	2.15	0.45
1:B:386:ASP:OD1	1:B:388:GLU:OE1	2.34	0.45
1:D:145:VAL:HG21	1:D:170:GLU:HG2	1.98	0.45
1:D:296:ASP:C	1:D:298:TYR:N	2.70	0.45
1:G:453:VAL:HG11	1:h:451:GLN:OE1	2.17	0.45
1:J:371:ILE:CG2	1:J:371:ILE:O	2.64	0.45
1:V:426:THR:HG23	1:r:96:ASP:HB2	1.98	0.45
1:X:46:GLU:CD	1:w:541:ARG:HB2	2.41	0.45
1:a:145:VAL:HG21	1:a:170:GLU:HG2	1.98	0.45
1:a:145:VAL:O	1:a:145:VAL:HG12	2.16	0.45
1:b:371:ILE:CG2	1:b:371:ILE:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:145:VAL:HG21	1:c:170:GLU:HG2	1.98	0.45
1:d:386:ASP:OD1	1:d:388:GLU:OE1	2.34	0.45
1:j:298:TYR:HD2	1:j:299:GLU:CG	2.20	0.45
1:k:298:TYR:HD2	1:k:299:GLU:CG	2.20	0.45
1:m:371:ILE:CG2	1:m:371:ILE:O	2.64	0.45
1:o:145:VAL:O	1:o:145:VAL:HG12	2.16	0.45
1:s:145:VAL:O	1:s:145:VAL:HG12	2.16	0.45
1:t:149:THR:OG1	1:t:150:PRO:CD	2.61	0.45
1:2:57:SER:N	1:g:57:SER:OG	2.49	0.45
1:6:541:ARG:HB2	1:L:46:GLU:CD	2.41	0.45
1:A:57:SER:OG	1:R:57:SER:N	2.49	0.45
1:F:426:THR:HG23	1:Q:96:ASP:HB2	1.98	0.45
1:H:386:ASP:OD1	1:H:388:GLU:OE1	2.34	0.45
1:I:145:VAL:HG21	1:I:170:GLU:HG2	1.98	0.45
1:L:298:TYR:HD2	1:L:299:GLU:CG	2.20	0.45
1:O:145:VAL:O	1:O:145:VAL:HG12	2.16	0.45
1:Q:149:THR:OG1	1:Q:150:PRO:CD	2.61	0.45
1:W:145:VAL:HG21	1:W:170:GLU:HG2	1.98	0.45
1:Z:145:VAL:HG21	1:Z:170:GLU:HG2	1.98	0.45
1:e:145:VAL:O	1:e:145:VAL:HG12	2.16	0.45
1:f:145:VAL:HG21	1:f:170:GLU:HG2	1.98	0.45
1:f:145:VAL:O	1:f:145:VAL:HG12	2.16	0.45
1:h:149:THR:OG1	1:h:150:PRO:CD	2.61	0.45
1:n:386:ASP:OD1	1:n:388:GLU:OE1	2.34	0.45
1:q:145:VAL:HG21	1:q:170:GLU:HG2	1.98	0.45
1:r:145:VAL:HG21	1:r:170:GLU:HG2	1.98	0.45
1:r:358:ASP:N	1:r:362:ARG:O	2.38	0.45
1:s:145:VAL:HG21	1:s:170:GLU:HG2	1.98	0.45
1:t:145:VAL:HG21	1:t:170:GLU:HG2	1.98	0.45
1:u:145:VAL:HG21	1:u:170:GLU:HG2	1.98	0.45
1:v:145:VAL:HG12	1:v:145:VAL:O	2.16	0.45
1:C:145:VAL:O	1:C:145:VAL:HG12	2.16	0.45
1:I:541:ARG:HB2	1:s:46:GLU:OE1	2.17	0.45
1:J:149:THR:OG1	1:J:150:PRO:CD	2.61	0.45
1:K:228:VAL:HG23	1:K:229:THR:N	2.30	0.45
1:T:228:VAL:HG23	1:T:229:THR:N	2.30	0.45
1:e:371:ILE:CG2	1:e:371:ILE:O	2.63	0.45
1:g:145:VAL:HG21	1:g:170:GLU:HG2	1.98	0.45
1:p:145:VAL:O	1:p:145:VAL:HG12	2.16	0.45
1:p:371:ILE:CG2	1:p:371:ILE:O	2.64	0.45
1:v:145:VAL:HG21	1:v:170:GLU:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:386:ASP:OD1	1:v:388:GLU:OE1	2.34	0.45
1:3:426:THR:HG23	1:o:96:ASP:HB2	1.98	0.45
1:6:138:LYS:NZ	1:6:175:GLU:OE2	2.35	0.45
1:6:451:GLN:HB3	1:M:450:GLU:HG2	1.99	0.45
1:8:145:VAL:HG21	1:8:170:GLU:HG2	1.98	0.45
1:8:204:GLN:NE2	1:X:228:VAL:HG11	2.32	0.45
1:H:145:VAL:HG21	1:H:170:GLU:HG2	1.98	0.45
1:J:370:LYS:HE2	1:J:372:ASN:HD21	1.82	0.45
1:K:255:ASP:OD1	1:K:257:THR:OG1	2.29	0.45
1:K:422:THR:OG1	1:k:92:VAL:O	2.26	0.45
1:N:145:VAL:O	1:N:145:VAL:HG12	2.16	0.45
1:P:370:LYS:HE2	1:P:372:ASN:HD21	1.82	0.45
1:V:145:VAL:HG21	1:V:170:GLU:HG2	1.98	0.45
1:V:371:ILE:CG2	1:V:371:ILE:O	2.64	0.45
1:W:46:GLU:OE1	1:q:541:ARG:HB2	2.16	0.45
1:c:46:GLU:OE1	1:s:541:ARG:HB2	2.17	0.45
1:d:145:VAL:HG21	1:d:170:GLU:HG2	1.98	0.45
1:n:149:THR:OG1	1:n:150:PRO:CD	2.61	0.45
1:y:370:LYS:HE2	1:y:372:ASN:HD21	1.82	0.45
1:3:370:LYS:HE2	1:3:372:ASN:HD21	1.82	0.45
1:7:370:LYS:HE2	1:7:372:ASN:HD21	1.82	0.45
1:8:229:THR:CG2	1:8:230:GLU:N	2.69	0.45
1:9:57:SER:N	1:G:57:SER:OG	2.50	0.45
1:A:46:GLU:OE1	1:Q:541:ARG:HB2	2.17	0.45
1:H:255:ASP:OD1	1:H:257:THR:OG1	2.29	0.45
1:J:46:GLU:CD	1:o:541:ARG:HB2	2.42	0.45
1:J:453:VAL:HG11	1:Y:451:GLN:OE1	2.16	0.45
1:T:145:VAL:HG21	1:T:170:GLU:HG2	1.98	0.45
1:W:46:GLU:CD	1:q:541:ARG:HB2	2.41	0.45
1:Y:371:ILE:CG2	1:Y:371:ILE:O	2.63	0.45
1:b:370:LYS:HE2	1:b:372:ASN:HD21	1.82	0.45
1:c:46:GLU:CD	1:s:541:ARG:HB2	2.42	0.45
1:c:453:VAL:HG11	1:m:451:GLN:OE1	2.17	0.45
1:f:149:THR:OG1	1:f:150:PRO:CD	2.61	0.45
1:f:370:LYS:HE2	1:f:372:ASN:HD21	1.82	0.45
1:r:57:SER:HA	1:r:58:PRO:HD2	1.81	0.45
1:1:370:LYS:HE2	1:1:372:ASN:HD21	1.82	0.45
1:3:450:GLU:HG3	1:O:450:GLU:OE1	2.17	0.45
1:8:541:ARG:HB2	1:K:46:GLU:OE1	2.17	0.45
1:G:370:LYS:HE2	1:G:372:ASN:HD21	1.82	0.45
1:O:145:VAL:HG13	1:O:201:VAL:HG12	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:370:LYS:HE2	1:R:372:ASN:HD21	1.82	0.45
1:S:370:LYS:HE2	1:S:372:ASN:HD21	1.82	0.45
1:V:145:VAL:O	1:V:145:VAL:HG12	2.16	0.45
1:i:451:GLN:OE1	1:v:453:VAL:HG11	2.17	0.45
1:j:229:THR:CG2	1:j:230:GLU:N	2.69	0.45
1:m:296:ASP:C	1:m:298:TYR:N	2.70	0.45
1:n:145:VAL:HG12	1:n:145:VAL:O	2.16	0.45
1:v:370:LYS:HE2	1:v:372:ASN:HD21	1.82	0.45
1:5:149:THR:OG1	1:5:150:PRO:CD	2.61	0.44
1:7:145:VAL:O	1:7:145:VAL:HG12	2.16	0.44
1:8:96:ASP:HB2	1:C:426:THR:HG23	1.99	0.44
1:8:370:LYS:HE2	1:8:372:ASN:HD21	1.82	0.44
1:A:145:VAL:HG21	1:A:170:GLU:HG2	1.98	0.44
1:H:57:SER:OG	1:Q:57:SER:N	2.50	0.44
1:J:541:ARG:HB2	1:Y:46:GLU:CD	2.42	0.44
1:K:370:LYS:HE2	1:K:372:ASN:HD21	1.82	0.44
1:M:370:LYS:HE2	1:M:372:ASN:HD21	1.82	0.44
1:N:370:LYS:HE2	1:N:372:ASN:HD21	1.82	0.44
1:Q:298:TYR:CD2	1:Q:299:GLU:CG	2.99	0.44
1:R:296:ASP:C	1:R:298:TYR:N	2.70	0.44
1:Y:370:LYS:HE2	1:Y:372:ASN:HD21	1.82	0.44
1:k:370:LYS:HE2	1:k:372:ASN:HD21	1.82	0.44
1:n:145:VAL:HG13	1:n:201:VAL:HG12	1.96	0.44
1:t:370:LYS:HE2	1:t:372:ASN:HD21	1.82	0.44
1:2:145:VAL:HG13	1:2:201:VAL:HG12	1.96	0.44
1:2:450:GLU:HG2	1:F:451:GLN:HB3	1.99	0.44
1:4:358:ASP:N	1:4:362:ARG:O	2.38	0.44
1:A:131:ASN:HA	1:A:178:GLU:HG2	2.00	0.44
1:A:211:ASP:O	1:A:249:LEU:HD11	2.02	0.44
1:A:370:LYS:HE2	1:A:372:ASN:HD21	1.82	0.44
1:A:426:THR:HG23	1:K:96:ASP:HB2	1.98	0.44
1:A:450:GLU:OE1	1:Q:450:GLU:CG	2.65	0.44
1:C:370:LYS:HE2	1:C:372:ASN:HD21	1.82	0.44
1:F:370:LYS:HE2	1:F:372:ASN:HD21	1.82	0.44
1:H:131:ASN:HA	1:H:178:GLU:HG2	2.00	0.44
1:J:46:GLU:OE1	1:o:541:ARG:HB2	2.16	0.44
1:M:296:ASP:C	1:M:298:TYR:N	2.70	0.44
1:P:46:GLU:CD	1:z:541:ARG:HB2	2.42	0.44
1:S:211:ASP:C	1:S:249:LEU:CD1	2.74	0.44
1:Z:131:ASN:HA	1:Z:178:GLU:HG2	2.00	0.44
1:f:451:GLN:OE1	1:p:453:VAL:HG11	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:298:TYR:HD2	1:q:299:GLU:CG	2.20	0.44
1:x:145:VAL:HG21	1:x:170:GLU:HG2	1.98	0.44
1:3:149:THR:OG1	1:3:150:PRO:CD	2.61	0.44
1:6:131:ASN:HA	1:6:178:GLU:HG2	2.00	0.44
1:6:422:THR:OG1	1:L:92:VAL:O	2.26	0.44
1:7:426:THR:HG23	1:s:96:ASP:HB2	1.99	0.44
1:8:131:ASN:HA	1:8:178:GLU:HG2	2.00	0.44
1:B:131:ASN:HA	1:B:178:GLU:HG2	2.00	0.44
1:F:450:GLU:HG3	1:H:450:GLU:OE1	2.17	0.44
1:H:57:SER:N	1:Q:57:SER:OG	2.50	0.44
1:K:541:ARG:HB2	1:k:46:GLU:OE1	2.17	0.44
1:V:370:LYS:HE2	1:V:372:ASN:HD21	1.82	0.44
1:W:370:LYS:HE2	1:W:372:ASN:HD21	1.82	0.44
1:a:450:GLU:HG3	1:p:450:GLU:OE1	2.17	0.44
1:r:231:LEU:CD2	1:r:371:ILE:HG23	2.37	0.44
1:u:298:TYR:CD2	1:u:299:GLU:CG	2.99	0.44
1:u:370:LYS:HE2	1:u:372:ASN:HD21	1.82	0.44
1:4:46:GLU:OE1	1:N:541:ARG:HB2	2.17	0.44
1:5:450:GLU:CG	1:o:450:GLU:OE1	2.66	0.44
1:9:46:GLU:CD	1:n:541:ARG:HB2	2.42	0.44
1:B:92:VAL:O	1:f:422:THR:OG1	2.24	0.44
1:B:450:GLU:OE1	1:f:450:GLU:CG	2.65	0.44
1:B:541:ARG:HB2	1:x:46:GLU:CD	2.43	0.44
1:C:422:THR:OG1	1:y:92:VAL:O	2.30	0.44
1:D:370:LYS:HE2	1:D:372:ASN:HD21	1.82	0.44
1:F:131:ASN:HA	1:F:178:GLU:HG2	2.00	0.44
1:G:145:VAL:HG13	1:G:201:VAL:HG12	1.96	0.44
1:I:131:ASN:HA	1:I:178:GLU:HG2	2.00	0.44
1:L:370:LYS:HE2	1:L:372:ASN:HD21	1.82	0.44
1:N:131:ASN:HA	1:N:178:GLU:HG2	2.00	0.44
1:O:370:LYS:HE2	1:O:372:ASN:HD21	1.82	0.44
1:O:450:GLU:CG	1:z:450:GLU:OE1	2.66	0.44
1:P:57:SER:N	1:S:57:SER:OG	2.50	0.44
1:R:422:THR:HG22	1:v:53:TYR:CD2	2.52	0.44
1:W:131:ASN:HA	1:W:178:GLU:HG2	2.00	0.44
1:X:370:LYS:HE2	1:X:372:ASN:HD21	1.82	0.44
1:Y:149:THR:OG1	1:Y:150:PRO:CD	2.61	0.44
1:a:131:ASN:HA	1:a:178:GLU:HG2	2.00	0.44
1:b:149:THR:OG1	1:b:150:PRO:CD	2.61	0.44
1:c:131:ASN:HA	1:c:178:GLU:HG2	2.00	0.44
1:c:358:ASP:N	1:c:362:ARG:O	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:149:THR:OG1	1:e:150:PRO:CD	2.61	0.44
1:i:370:LYS:HE2	1:i:372:ASN:HD21	1.82	0.44
1:m:138:LYS:NZ	1:m:175:GLU:OE2	2.35	0.44
1:z:131:ASN:HA	1:z:178:GLU:HG2	2.00	0.44
1:2:131:ASN:HA	1:2:178:GLU:HG2	2.00	0.44
1:D:131:ASN:HA	1:D:178:GLU:HG2	2.00	0.44
1:F:145:VAL:HG21	1:F:170:GLU:HG2	1.98	0.44
1:G:541:ARG:HB2	1:h:46:GLU:OE1	2.18	0.44
1:H:541:ARG:HB2	1:V:46:GLU:OE1	2.17	0.44
1:I:57:SER:OG	1:V:57:SER:N	2.51	0.44
1:M:450:GLU:OE1	1:b:450:GLU:HG3	2.16	0.44
1:P:57:SER:OG	1:S:57:SER:N	2.50	0.44
1:P:131:ASN:HA	1:P:178:GLU:HG2	2.00	0.44
1:Y:131:ASN:HA	1:Y:178:GLU:HG2	2.00	0.44
1:a:145:VAL:HG13	1:a:201:VAL:HG12	1.96	0.44
1:c:298:TYR:CD2	1:c:299:GLU:CG	2.99	0.44
1:i:298:TYR:CD2	1:i:299:GLU:CG	3.00	0.44
1:j:370:LYS:HE2	1:j:372:ASN:HD21	1.82	0.44
1:n:138:LYS:NZ	1:n:175:GLU:OE2	2.35	0.44
1:o:131:ASN:HA	1:o:178:GLU:HG2	2.00	0.44
1:o:149:THR:OG1	1:o:150:PRO:CD	2.61	0.44
1:p:131:ASN:HA	1:p:178:GLU:HG2	2.00	0.44
1:s:131:ASN:HA	1:s:178:GLU:HG2	2.00	0.44
1:t:228:VAL:HG23	1:t:229:THR:N	2.30	0.44
1:x:370:LYS:HE2	1:x:372:ASN:HD21	1.82	0.44
1:1:131:ASN:HA	1:1:178:GLU:HG2	2.00	0.44
1:4:131:ASN:HA	1:4:178:GLU:HG2	2.00	0.44
1:8:53:TYR:CD2	1:X:422:THR:HG22	2.53	0.44
1:9:96:ASP:HB2	1:u:426:THR:HG23	2.00	0.44
1:A:422:THR:HG22	1:t:53:TYR:CE2	2.52	0.44
1:T:370:LYS:HE2	1:T:372:ASN:HD21	1.82	0.44
1:Y:450:GLU:HG3	1:g:450:GLU:OE1	2.17	0.44
1:Z:370:LYS:HE2	1:Z:372:ASN:HD21	1.82	0.44
1:b:451:GLN:HB3	1:r:450:GLU:HG2	2.00	0.44
1:d:298:TYR:CD2	1:d:299:GLU:CG	2.99	0.44
1:e:57:SER:N	1:r:57:SER:OG	2.50	0.44
1:k:149:THR:OG1	1:k:150:PRO:CD	2.61	0.44
1:q:131:ASN:HA	1:q:178:GLU:HG2	2.00	0.44
1:4:370:LYS:HE2	1:4:372:ASN:HD21	1.82	0.44
1:7:92:VAL:O	1:t:422:THR:OG1	2.29	0.44
1:8:46:GLU:CD	1:X:541:ARG:HB2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:145:VAL:O	1:9:145:VAL:HG12	2.16	0.44
1:A:228:VAL:HG23	1:A:229:THR:N	2.30	0.44
1:H:370:LYS:HE2	1:H:372:ASN:HD21	1.82	0.44
1:P:255:ASP:OD1	1:P:257:THR:OG1	2.29	0.44
1:R:149:THR:OG1	1:R:150:PRO:CD	2.61	0.44
1:T:46:GLU:OE1	1:j:541:ARG:HB2	2.18	0.44
1:V:149:THR:OG1	1:V:150:PRO:CD	2.61	0.44
1:a:53:TYR:CG	1:x:422:THR:HG22	2.53	0.44
1:k:145:VAL:HG12	1:k:145:VAL:O	2.16	0.44
1:k:541:ARG:HB2	1:w:46:GLU:OE1	2.18	0.44
1:l:298:TYR:HD2	1:l:299:GLU:CG	2.20	0.44
1:m:131:ASN:HA	1:m:178:GLU:HG2	2.00	0.44
1:m:298:TYR:HD2	1:m:299:GLU:CG	2.20	0.44
1:o:370:LYS:HE2	1:o:372:ASN:HD21	1.82	0.44
1:p:370:LYS:HE2	1:p:372:ASN:HD21	1.82	0.44
1:q:298:TYR:CD2	1:q:299:GLU:CG	3.00	0.44
1:x:298:TYR:HD2	1:x:299:GLU:CG	2.20	0.44
1:y:131:ASN:HA	1:y:178:GLU:HG2	2.00	0.44
1:z:298:TYR:CD2	1:z:299:GLU:CG	3.00	0.44
1:2:370:LYS:HE2	1:2:372:ASN:HD21	1.82	0.44
1:6:298:TYR:CD2	1:6:299:GLU:CG	2.99	0.44
1:A:298:TYR:HD2	1:A:299:GLU:CG	2.20	0.44
1:C:451:GLN:OE1	1:E:453:VAL:HG11	2.18	0.44
1:D:450:GLU:HG3	1:q:450:GLU:OE1	2.17	0.44
1:G:46:GLU:OE1	1:u:541:ARG:HB2	2.17	0.44
1:L:228:VAL:HG11	1:r:204:GLN:NE2	2.33	0.44
1:M:131:ASN:HA	1:M:178:GLU:HG2	2.00	0.44
1:M:451:GLN:HB3	1:b:450:GLU:HG2	1.99	0.44
1:Q:370:LYS:HE2	1:Q:372:ASN:HD21	1.82	0.44
1:V:422:THR:OG1	1:e:92:VAL:O	2.25	0.44
1:V:450:GLU:CG	1:e:450:GLU:OE1	2.66	0.44
1:V:541:ARG:HB2	1:e:46:GLU:OE1	2.18	0.44
1:Y:298:TYR:CD2	1:Y:299:GLU:CG	2.99	0.44
1:a:541:ARG:HB2	1:p:46:GLU:CD	2.43	0.44
1:s:294:ASP:CA	1:s:355:VAL:CG2	2.96	0.44
1:x:131:ASN:HA	1:x:178:GLU:HG2	2.00	0.44
1:5:46:GLU:OE1	1:g:541:ARG:HB2	2.18	0.44
1:O:57:SER:OG	1:o:57:SER:N	2.51	0.44
1:W:149:THR:OG1	1:W:150:PRO:CD	2.61	0.44
1:W:294:ASP:CA	1:W:355:VAL:CG2	2.96	0.44
1:g:131:ASN:HA	1:g:178:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:370:LYS:HE2	1:h:372:ASN:HD21	1.82	0.44
1:k:450:GLU:CG	1:w:450:GLU:OE1	2.66	0.44
1:m:211:ASP:C	1:m:249:LEU:CD1	2.74	0.44
1:n:370:LYS:HE2	1:n:372:ASN:HD21	1.82	0.44
1:r:298:TYR:CD2	1:r:299:GLU:CG	2.99	0.44
1:r:370:LYS:HE2	1:r:372:ASN:HD21	1.82	0.44
1:z:370:LYS:HE2	1:z:372:ASN:HD21	1.82	0.44
1:4:422:THR:HG22	1:D:53:TYR:CE2	2.53	0.43
1:8:294:ASP:CA	1:8:355:VAL:CG2	2.96	0.43
1:B:453:VAL:HG11	1:x:451:GLN:OE1	2.18	0.43
1:C:450:GLU:HG2	1:y:451:GLN:HB3	1.98	0.43
1:G:294:ASP:CA	1:G:355:VAL:CG2	2.96	0.43
1:K:294:ASP:CA	1:K:355:VAL:CG2	2.96	0.43
1:L:131:ASN:HA	1:L:178:GLU:HG2	2.00	0.43
1:R:228:VAL:HG23	1:R:229:THR:N	2.30	0.43
1:a:370:LYS:HE2	1:a:372:ASN:HD21	1.82	0.43
1:c:149:THR:OG1	1:c:150:PRO:CD	2.61	0.43
1:d:131:ASN:HA	1:d:178:GLU:HG2	2.00	0.43
1:d:370:LYS:HE2	1:d:372:ASN:HD21	1.82	0.43
1:g:370:LYS:HE2	1:g:372:ASN:HD21	1.82	0.43
1:o:298:TYR:HD2	1:o:299:GLU:CG	2.20	0.43
1:s:149:THR:OG1	1:s:150:PRO:CD	2.61	0.43
1:x:294:ASP:CA	1:x:355:VAL:CG2	2.96	0.43
1:1:449:ASN:ND2	1:1:452:ALA:HB3	2.33	0.43
1:3:233:MET:N	1:3:234:PRO:CD	2.82	0.43
1:3:294:ASP:CA	1:3:355:VAL:CG2	2.96	0.43
1:6:149:THR:OG1	1:6:150:PRO:CD	2.61	0.43
1:6:370:LYS:HE2	1:6:372:ASN:HD21	1.82	0.43
1:G:449:ASN:ND2	1:G:452:ALA:HB3	2.34	0.43
1:M:449:ASN:ND2	1:M:452:ALA:HB3	2.33	0.43
1:V:131:ASN:HA	1:V:178:GLU:HG2	2.00	0.43
1:V:298:TYR:HD2	1:V:299:GLU:CG	2.20	0.43
1:X:298:TYR:CD2	1:X:299:GLU:CG	3.00	0.43
1:m:298:TYR:CD2	1:m:299:GLU:CG	3.00	0.43
1:o:294:ASP:CA	1:o:355:VAL:CG2	2.96	0.43
1:p:149:THR:OG1	1:p:150:PRO:CD	2.61	0.43
1:r:131:ASN:HA	1:r:178:GLU:HG2	2.00	0.43
1:w:149:THR:OG1	1:w:150:PRO:CD	2.61	0.43
1:2:451:GLN:HB3	1:e:450:GLU:HG2	2.01	0.43
1:5:370:LYS:HE2	1:5:372:ASN:HD21	1.82	0.43
1:7:449:ASN:ND2	1:7:452:ALA:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:53:TYR:CG	1:X:422:THR:HG22	2.53	0.43
1:9:541:ARG:HB2	1:E:46:GLU:CD	2.42	0.43
1:C:228:VAL:HG11	1:y:204:GLN:NE2	2.33	0.43
1:H:453:VAL:HG11	1:V:451:GLN:OE1	2.17	0.43
1:Q:233:MET:N	1:Q:234:PRO:CD	2.82	0.43
1:Y:541:ARG:HB2	1:g:46:GLU:OE1	2.19	0.43
1:Z:53:TYR:CG	1:m:422:THR:HG22	2.53	0.43
1:e:370:LYS:HE2	1:e:372:ASN:HD21	1.82	0.43
1:g:233:MET:N	1:g:234:PRO:CD	2.82	0.43
1:i:541:ARG:HB2	1:j:46:GLU:OE1	2.18	0.43
1:j:296:ASP:C	1:j:298:TYR:N	2.70	0.43
1:l:449:ASN:ND2	1:l:452:ALA:HB3	2.34	0.43
1:p:294:ASP:CA	1:p:355:VAL:CG2	2.96	0.43
1:t:233:MET:N	1:t:234:PRO:CD	2.82	0.43
1:v:131:ASN:HA	1:v:178:GLU:HG2	2.00	0.43
1:w:370:LYS:HE2	1:w:372:ASN:HD21	1.82	0.43
1:1:233:MET:N	1:1:234:PRO:CD	2.82	0.43
1:2:298:TYR:CD2	1:2:299:GLU:CG	3.00	0.43
1:3:449:ASN:ND2	1:3:452:ALA:HB3	2.34	0.43
1:9:449:ASN:ND2	1:9:452:ALA:HB3	2.33	0.43
1:B:294:ASP:CA	1:B:355:VAL:CG2	2.96	0.43
1:I:233:MET:N	1:I:234:PRO:CD	2.82	0.43
1:J:131:ASN:HA	1:J:178:GLU:HG2	2.00	0.43
1:J:233:MET:N	1:J:234:PRO:CD	2.82	0.43
1:L:233:MET:N	1:L:234:PRO:CD	2.82	0.43
1:P:233:MET:N	1:P:234:PRO:CD	2.82	0.43
1:R:131:ASN:HA	1:R:178:GLU:HG2	2.00	0.43
1:W:233:MET:N	1:W:234:PRO:CD	2.82	0.43
1:W:426:THR:HG23	1:w:96:ASP:HB2	2.00	0.43
1:X:233:MET:N	1:X:234:PRO:CD	2.82	0.43
1:X:352:ILE:CG1	1:X:353:GLN:N	2.82	0.43
1:X:426:THR:HG23	1:y:96:ASP:HB2	2.01	0.43
1:Y:233:MET:N	1:Y:234:PRO:CD	2.82	0.43
1:c:296:ASP:C	1:c:298:TYR:N	2.70	0.43
1:e:366:VAL:O	1:e:367:LEU:C	2.62	0.43
1:f:131:ASN:HA	1:f:178:GLU:HG2	2.00	0.43
1:g:269:LYS:HB3	1:g:269:LYS:HE2	1.85	0.43
1:h:131:ASN:HA	1:h:178:GLU:HG2	2.00	0.43
1:i:131:ASN:HA	1:i:178:GLU:HG2	2.00	0.43
1:i:149:THR:OG1	1:i:150:PRO:CD	2.61	0.43
1:j:131:ASN:HA	1:j:178:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:298:TYR:CD2	1:j:299:GLU:CG	3.00	0.43
1:m:370:LYS:HE2	1:m:372:ASN:HD21	1.82	0.43
1:n:449:ASN:ND2	1:n:452:ALA:HB3	2.33	0.43
1:p:366:VAL:O	1:p:367:LEU:C	2.62	0.43
1:r:366:VAL:O	1:r:367:LEU:C	2.62	0.43
1:s:449:ASN:ND2	1:s:452:ALA:HB3	2.33	0.43
1:t:131:ASN:HA	1:t:178:GLU:HG2	2.00	0.43
1:u:233:MET:N	1:u:234:PRO:CD	2.82	0.43
1:u:352:ILE:CG1	1:u:353:GLN:N	2.82	0.43
1:2:233:MET:N	1:2:234:PRO:CD	2.82	0.43
1:2:449:ASN:ND2	1:2:452:ALA:HB3	2.34	0.43
1:4:57:SER:OG	1:j:57:SER:N	2.50	0.43
1:4:233:MET:N	1:4:234:PRO:CD	2.82	0.43
1:6:92:VAL:O	1:M:422:THR:OG1	2.28	0.43
1:6:233:MET:N	1:6:234:PRO:CD	2.82	0.43
1:9:294:ASP:CA	1:9:355:VAL:CG2	2.96	0.43
1:C:352:ILE:CG1	1:C:353:GLN:N	2.82	0.43
1:E:352:ILE:CG1	1:E:353:GLN:N	2.81	0.43
1:F:233:MET:N	1:F:234:PRO:CD	2.82	0.43
1:G:131:ASN:HA	1:G:178:GLU:HG2	2.00	0.43
1:G:233:MET:N	1:G:234:PRO:CD	2.82	0.43
1:H:366:VAL:O	1:H:367:LEU:C	2.62	0.43
1:I:294:ASP:CA	1:I:355:VAL:CG2	2.96	0.43
1:L:298:TYR:CD2	1:L:299:GLU:CG	3.00	0.43
1:M:233:MET:N	1:M:234:PRO:CD	2.82	0.43
1:P:228:VAL:HG11	1:d:204:GLN:NE2	2.33	0.43
1:Q:131:ASN:HA	1:Q:178:GLU:HG2	2.00	0.43
1:R:298:TYR:HD2	1:R:299:GLU:CG	2.20	0.43
1:S:46:GLU:CD	1:h:541:ARG:HB2	2.43	0.43
1:T:352:ILE:CG1	1:T:353:GLN:N	2.82	0.43
1:Z:149:THR:OG1	1:Z:150:PRO:CD	2.61	0.43
1:c:233:MET:N	1:c:234:PRO:CD	2.82	0.43
1:f:233:MET:N	1:f:234:PRO:CD	2.82	0.43
1:g:298:TYR:CD2	1:g:299:GLU:CG	3.00	0.43
1:l:131:ASN:HA	1:l:178:GLU:HG2	2.00	0.43
1:s:233:MET:N	1:s:234:PRO:CD	2.82	0.43
1:s:352:ILE:CG1	1:s:353:GLN:N	2.81	0.43
1:s:370:LYS:HE2	1:s:372:ASN:HD21	1.82	0.43
1:u:131:ASN:HA	1:u:178:GLU:HG2	2.00	0.43
1:x:298:TYR:CD2	1:x:299:GLU:CG	2.99	0.43
1:y:149:THR:OG1	1:y:150:PRO:CD	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:451:GLN:HB3	1:g:450:GLU:HG2	2.00	0.43
1:7:298:TYR:HD2	1:7:299:GLU:CG	2.20	0.43
1:9:370:LYS:HE2	1:9:372:ASN:HD21	1.82	0.43
1:B:233:MET:N	1:B:234:PRO:CD	2.82	0.43
1:F:294:ASP:CA	1:F:355:VAL:CG2	2.96	0.43
1:K:233:MET:N	1:K:234:PRO:CD	2.82	0.43
1:L:453:VAL:HG11	1:r:451:GLN:OE1	2.18	0.43
1:Q:294:ASP:CA	1:Q:355:VAL:CG2	2.96	0.43
1:S:233:MET:N	1:S:234:PRO:CD	2.82	0.43
1:S:294:ASP:CA	1:S:355:VAL:CG2	2.96	0.43
1:S:449:ASN:ND2	1:S:452:ALA:HB3	2.34	0.43
1:Y:294:ASP:CA	1:Y:355:VAL:CG2	2.96	0.43
1:Z:233:MET:N	1:Z:234:PRO:CD	2.82	0.43
1:d:149:THR:OG1	1:d:150:PRO:CD	2.61	0.43
1:h:352:ILE:CG1	1:h:353:GLN:H	2.32	0.43
1:i:233:MET:N	1:i:234:PRO:CD	2.82	0.43
1:j:366:VAL:O	1:j:367:LEU:C	2.62	0.43
1:l:366:VAL:O	1:l:367:LEU:C	2.62	0.43
1:n:131:ASN:HA	1:n:178:GLU:HG2	2.00	0.43
1:o:233:MET:N	1:o:234:PRO:CD	2.82	0.43
1:v:449:ASN:ND2	1:v:452:ALA:HB3	2.34	0.43
1:1:229:THR:CG2	1:1:230:GLU:N	2.69	0.43
1:4:57:SER:N	1:j:57:SER:OG	2.52	0.43
1:5:352:ILE:CG1	1:5:353:GLN:H	2.32	0.43
1:5:449:ASN:ND2	1:5:452:ALA:HB3	2.34	0.43
1:9:131:ASN:HA	1:9:178:GLU:HG2	2.00	0.43
1:9:233:MET:N	1:9:234:PRO:CD	2.82	0.43
1:9:352:ILE:CG1	1:9:353:GLN:H	2.32	0.43
1:B:450:GLU:CG	1:x:450:GLU:OE1	2.67	0.43
1:C:233:MET:N	1:C:234:PRO:CD	2.82	0.43
1:C:352:ILE:CG1	1:C:353:GLN:H	2.32	0.43
1:C:449:ASN:ND2	1:C:452:ALA:HB3	2.33	0.43
1:D:298:TYR:HD2	1:D:299:GLU:CG	2.20	0.43
1:D:449:ASN:ND2	1:D:452:ALA:HB3	2.33	0.43
1:G:211:ASP:O	1:G:249:LEU:HD11	2.02	0.43
1:H:352:ILE:CG1	1:H:353:GLN:N	2.81	0.43
1:I:450:GLU:HG2	1:s:451:GLN:HB3	2.00	0.43
1:Y:352:ILE:CG1	1:Y:353:GLN:H	2.32	0.43
1:d:233:MET:N	1:d:234:PRO:CD	2.82	0.43
1:l:138:LYS:NZ	1:l:175:GLU:OE2	2.35	0.43
1:s:366:VAL:O	1:s:367:LEU:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:352:ILE:CG1	1:x:353:GLN:H	2.32	0.43
1:z:149:THR:OG1	1:z:150:PRO:CD	2.61	0.43
1:5:92:VAL:O	1:g:422:THR:OG1	2.30	0.43
1:6:352:ILE:CG1	1:6:353:GLN:H	2.32	0.43
1:7:131:ASN:HA	1:7:178:GLU:HG2	2.00	0.43
1:A:541:ARG:HB2	1:t:46:GLU:OE1	2.19	0.43
1:C:131:ASN:HA	1:C:178:GLU:HG2	2.00	0.43
1:C:541:ARG:HB2	1:y:46:GLU:OE1	2.19	0.43
1:D:453:VAL:HG11	1:q:451:GLN:OE1	2.19	0.43
1:E:370:LYS:HE2	1:E:372:ASN:HD21	1.82	0.43
1:G:298:TYR:CD2	1:G:299:GLU:CG	3.00	0.43
1:H:233:MET:N	1:H:234:PRO:CD	2.82	0.43
1:H:450:GLU:HG3	1:V:450:GLU:OE1	2.19	0.43
1:K:57:SER:HA	1:K:58:PRO:HD2	1.81	0.43
1:L:449:ASN:ND2	1:L:452:ALA:HB3	2.33	0.43
1:N:450:GLU:OE1	1:W:450:GLU:CG	2.67	0.43
1:P:352:ILE:CG1	1:P:353:GLN:H	2.32	0.43
1:P:352:ILE:CG1	1:P:353:GLN:N	2.82	0.43
1:Q:352:ILE:CG1	1:Q:353:GLN:H	2.32	0.43
1:R:541:ARG:HD2	1:R:541:ARG:HA	1.91	0.43
1:W:138:LYS:NZ	1:W:175:GLU:OE2	2.35	0.43
1:b:131:ASN:HA	1:b:178:GLU:HG2	2.00	0.43
1:f:294:ASP:CA	1:f:355:VAL:CG2	2.96	0.43
1:i:352:ILE:CG1	1:i:353:GLN:H	2.32	0.43
1:i:451:GLN:HB3	1:v:450:GLU:HG2	2.00	0.43
1:l:352:ILE:CG1	1:l:353:GLN:H	2.32	0.43
1:q:233:MET:N	1:q:234:PRO:CD	2.82	0.43
1:q:370:LYS:HE2	1:q:372:ASN:HD21	1.82	0.43
1:r:233:MET:N	1:r:234:PRO:CD	2.82	0.43
1:w:352:ILE:CG1	1:w:353:GLN:N	2.81	0.43
1:w:449:ASN:ND2	1:w:452:ALA:HB3	2.33	0.43
1:x:149:THR:OG1	1:x:150:PRO:CD	2.61	0.43
1:y:352:ILE:CG1	1:y:353:GLN:H	2.32	0.43
1:z:294:ASP:CA	1:z:355:VAL:CG2	2.96	0.43
1:4:298:TYR:HD2	1:4:299:GLU:CG	2.20	0.43
1:5:131:ASN:HA	1:5:178:GLU:HG2	2.00	0.43
1:8:366:VAL:O	1:8:367:LEU:C	2.62	0.43
1:B:449:ASN:ND2	1:B:452:ALA:HB3	2.34	0.43
1:F:366:VAL:O	1:F:367:LEU:C	2.62	0.43
1:G:366:VAL:O	1:G:367:LEU:C	2.62	0.43
1:L:352:ILE:CG1	1:L:353:GLN:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:294:ASP:CA	1:M:355:VAL:CG2	2.96	0.43
1:N:96:ASP:HB2	1:k:426:THR:HG23	2.00	0.43
1:O:366:VAL:O	1:O:367:LEU:C	2.62	0.43
1:O:450:GLU:HG3	1:z:450:GLU:OE1	2.19	0.43
1:S:131:ASN:HA	1:S:178:GLU:HG2	2.00	0.43
1:b:233:MET:N	1:b:234:PRO:CD	2.82	0.43
1:b:450:GLU:OE1	1:r:450:GLU:HG3	2.18	0.43
1:e:131:ASN:HA	1:e:178:GLU:HG2	2.00	0.43
1:e:294:ASP:CA	1:e:355:VAL:CG2	2.96	0.43
1:e:352:ILE:CG1	1:e:353:GLN:H	2.32	0.43
1:h:233:MET:N	1:h:234:PRO:CD	2.82	0.43
1:k:352:ILE:CG1	1:k:353:GLN:H	2.32	0.43
1:m:57:SER:HA	1:m:58:PRO:HD2	1.81	0.43
1:l:352:ILE:CG1	1:l:353:GLN:H	2.32	0.43
1:3:352:ILE:CG1	1:3:353:GLN:H	2.32	0.43
1:6:366:VAL:O	1:6:367:LEU:C	2.62	0.43
1:A:449:ASN:ND2	1:A:452:ALA:HB3	2.34	0.43
1:C:298:TYR:CD2	1:C:299:GLU:CG	3.00	0.43
1:D:138:LYS:NZ	1:D:175:GLU:OE2	2.35	0.43
1:F:57:SER:OG	1:v:57:SER:N	2.51	0.43
1:G:298:TYR:HD2	1:G:299:GLU:CG	2.20	0.43
1:K:131:ASN:HA	1:K:178:GLU:HG2	2.00	0.43
1:O:233:MET:N	1:O:234:PRO:CD	2.82	0.43
1:O:294:ASP:CA	1:O:355:VAL:CG2	2.96	0.43
1:O:352:ILE:CG1	1:O:353:GLN:N	2.81	0.43
1:O:449:ASN:ND2	1:O:452:ALA:HB3	2.34	0.43
1:R:294:ASP:CA	1:R:355:VAL:CG2	2.96	0.43
1:R:451:GLN:OE1	1:T:453:VAL:HG11	2.19	0.43
1:S:451:GLN:HB3	1:h:450:GLU:HG2	2.01	0.43
1:T:352:ILE:CG1	1:T:353:GLN:H	2.32	0.43
1:W:352:ILE:CG1	1:W:353:GLN:N	2.82	0.43
1:Z:449:ASN:ND2	1:Z:452:ALA:HB3	2.34	0.43
1:a:233:MET:N	1:a:234:PRO:CD	2.82	0.43
1:b:366:VAL:O	1:b:367:LEU:C	2.62	0.43
1:h:352:ILE:CG1	1:h:353:GLN:N	2.82	0.43
1:j:228:VAL:HG23	1:j:229:THR:N	2.30	0.43
1:l:149:THR:OG1	1:l:150:PRO:CD	2.61	0.43
1:p:233:MET:N	1:p:234:PRO:CD	2.82	0.43
1:p:352:ILE:CG1	1:p:353:GLN:H	2.32	0.43
1:q:294:ASP:CA	1:q:355:VAL:CG2	2.96	0.43
1:v:233:MET:N	1:v:234:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:366:VAL:O	1:x:367:LEU:C	2.62	0.43
1:y:233:MET:N	1:y:234:PRO:CD	2.82	0.43
1:z:352:ILE:CG1	1:z:353:GLN:H	2.32	0.43
1:2:450:GLU:OE1	1:e:450:GLU:HG3	2.19	0.42
1:5:233:MET:N	1:5:234:PRO:CD	2.82	0.42
1:6:149:THR:HG1	1:6:150:PRO:HD3	1.81	0.42
1:7:352:ILE:CG1	1:7:353:GLN:N	2.82	0.42
1:9:422:THR:OG1	1:E:92:VAL:O	2.27	0.42
1:B:370:LYS:HE2	1:B:372:ASN:HD21	1.82	0.42
1:D:233:MET:N	1:D:234:PRO:CD	2.82	0.42
1:E:131:ASN:HA	1:E:178:GLU:HG2	2.00	0.42
1:K:352:ILE:CG1	1:K:353:GLN:H	2.32	0.42
1:T:233:MET:N	1:T:234:PRO:CD	2.82	0.42
1:T:366:VAL:O	1:T:367:LEU:C	2.62	0.42
1:V:450:GLU:HG3	1:e:450:GLU:OE1	2.18	0.42
1:X:131:ASN:HA	1:X:178:GLU:HG2	2.00	0.42
1:b:294:ASP:CA	1:b:355:VAL:HG23	2.50	0.42
1:c:370:LYS:HE2	1:c:372:ASN:HD21	1.82	0.42
1:e:233:MET:N	1:e:234:PRO:CD	2.82	0.42
1:e:449:ASN:ND2	1:e:452:ALA:HB3	2.34	0.42
1:f:450:GLU:OE1	1:p:450:GLU:CG	2.67	0.42
1:i:450:GLU:OE1	1:v:450:GLU:HG3	2.19	0.42
1:j:233:MET:N	1:j:234:PRO:CD	2.82	0.42
1:l:370:LYS:HE2	1:l:372:ASN:HD21	1.82	0.42
1:o:449:ASN:ND2	1:o:452:ALA:HB3	2.34	0.42
1:p:294:ASP:CA	1:p:355:VAL:HG23	2.49	0.42
1:v:294:ASP:CA	1:v:355:VAL:CG2	2.96	0.42
1:x:233:MET:N	1:x:234:PRO:CD	2.82	0.42
1:x:352:ILE:CG1	1:x:353:GLN:N	2.82	0.42
1:1:294:ASP:CA	1:1:355:VAL:CG2	2.96	0.42
1:3:294:ASP:CA	1:3:355:VAL:HG23	2.50	0.42
1:3:364:TYR:CE1	1:3:474:ASN:O	2.73	0.42
1:6:450:GLU:CG	1:L:450:GLU:OE1	2.67	0.42
1:6:450:GLU:OE1	1:M:450:GLU:CG	2.67	0.42
1:7:352:ILE:CG1	1:7:353:GLN:H	2.32	0.42
1:8:352:ILE:CG1	1:8:353:GLN:H	2.32	0.42
1:8:449:ASN:ND2	1:8:452:ALA:HB3	2.33	0.42
1:9:450:GLU:OE1	1:n:450:GLU:CG	2.68	0.42
1:A:364:TYR:CE1	1:A:474:ASN:O	2.73	0.42
1:B:298:TYR:CD2	1:B:299:GLU:CG	3.00	0.42
1:D:250:PRO:HA	1:D:281:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:233:MET:N	1:E:234:PRO:CD	2.82	0.42
1:E:250:PRO:HA	1:E:281:TYR:CD1	2.55	0.42
1:J:450:GLU:OE1	1:o:450:GLU:HG3	2.19	0.42
1:K:64:ARG:HA	1:K:64:ARG:HD3	1.91	0.42
1:L:294:ASP:CA	1:L:355:VAL:CG2	2.96	0.42
1:M:250:PRO:HA	1:M:281:TYR:CD1	2.55	0.42
1:M:364:TYR:CE1	1:M:474:ASN:O	2.73	0.42
1:P:294:ASP:CA	1:P:355:VAL:CG2	2.96	0.42
1:R:541:ARG:HB2	1:v:46:GLU:OE1	2.19	0.42
1:S:294:ASP:CA	1:S:355:VAL:HG23	2.50	0.42
1:T:131:ASN:HA	1:T:178:GLU:HG2	2.00	0.42
1:Y:228:VAL:HG11	1:g:204:GLN:NE2	2.34	0.42
1:d:294:ASP:CA	1:d:355:VAL:CG2	2.96	0.42
1:g:250:PRO:HA	1:g:281:TYR:CD1	2.55	0.42
1:g:366:VAL:O	1:g:367:LEU:C	2.62	0.42
1:h:250:PRO:HA	1:h:281:TYR:CD1	2.55	0.42
1:i:352:ILE:CG1	1:i:353:GLN:N	2.82	0.42
1:k:131:ASN:HA	1:k:178:GLU:HG2	2.00	0.42
1:k:450:GLU:HG3	1:w:450:GLU:OE1	2.19	0.42
1:k:541:ARG:HB2	1:w:46:GLU:CD	2.44	0.42
1:m:250:PRO:HA	1:m:281:TYR:CD1	2.55	0.42
1:v:250:PRO:HA	1:v:281:TYR:CD1	2.55	0.42
1:v:294:ASP:CA	1:v:355:VAL:HG23	2.50	0.42
1:z:233:MET:N	1:z:234:PRO:CD	2.82	0.42
1:z:250:PRO:HA	1:z:281:TYR:CD1	2.55	0.42
1:z:294:ASP:CA	1:z:355:VAL:HG23	2.49	0.42
1:4:450:GLU:OE1	1:N:450:GLU:CG	2.67	0.42
1:8:250:PRO:HA	1:8:281:TYR:CD1	2.55	0.42
1:8:364:TYR:CE1	1:8:474:ASN:O	2.73	0.42
1:A:294:ASP:CA	1:A:355:VAL:HG23	2.50	0.42
1:B:366:VAL:O	1:B:367:LEU:C	2.62	0.42
1:C:149:THR:HG1	1:C:150:PRO:HD3	1.83	0.42
1:D:364:TYR:CE1	1:D:474:ASN:O	2.73	0.42
1:E:298:TYR:CD2	1:E:299:GLU:CG	2.99	0.42
1:G:250:PRO:HA	1:G:281:TYR:CD1	2.55	0.42
1:I:352:ILE:CG1	1:I:353:GLN:N	2.82	0.42
1:I:370:LYS:HE2	1:I:372:ASN:HD21	1.82	0.42
1:J:294:ASP:CA	1:J:355:VAL:HG23	2.50	0.42
1:O:250:PRO:HA	1:O:281:TYR:CD1	2.55	0.42
1:P:149:THR:OG1	1:P:150:PRO:CD	2.61	0.42
1:R:233:MET:N	1:R:234:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:364:TYR:CE1	1:R:474:ASN:O	2.73	0.42
1:R:366:VAL:O	1:R:367:LEU:C	2.62	0.42
1:T:298:TYR:CD2	1:T:299:GLU:CG	3.00	0.42
1:V:250:PRO:HA	1:V:281:TYR:CD1	2.55	0.42
1:V:294:ASP:CA	1:V:355:VAL:HG23	2.50	0.42
1:Z:298:TYR:HD2	1:Z:299:GLU:CG	2.20	0.42
1:c:294:ASP:CA	1:c:355:VAL:HG23	2.50	0.42
1:j:352:ILE:CG1	1:j:353:GLN:N	2.82	0.42
1:k:233:MET:N	1:k:234:PRO:CD	2.82	0.42
1:m:233:MET:N	1:m:234:PRO:CD	2.82	0.42
1:o:298:TYR:CD2	1:o:299:GLU:CG	3.00	0.42
1:t:294:ASP:CA	1:t:355:VAL:CG2	2.96	0.42
1:t:364:TYR:CE1	1:t:474:ASN:O	2.73	0.42
1:u:294:ASP:CA	1:u:355:VAL:CG2	2.96	0.42
1:u:366:VAL:O	1:u:367:LEU:C	2.62	0.42
1:w:233:MET:N	1:w:234:PRO:CD	2.82	0.42
1:x:364:TYR:CE1	1:x:474:ASN:O	2.73	0.42
1:y:250:PRO:HA	1:y:281:TYR:CD1	2.55	0.42
1:y:364:TYR:CE1	1:y:474:ASN:O	2.73	0.42
1:1:250:PRO:HA	1:1:281:TYR:CD1	2.55	0.42
1:2:250:PRO:HA	1:2:281:TYR:CD1	2.55	0.42
1:4:449:ASN:ND2	1:4:452:ALA:HB3	2.33	0.42
1:5:364:TYR:CE1	1:5:474:ASN:O	2.73	0.42
1:7:204:GLN:NE2	1:t:228:VAL:HG11	2.34	0.42
1:7:364:TYR:CE1	1:7:474:ASN:O	2.73	0.42
1:9:364:TYR:CE1	1:9:474:ASN:O	2.73	0.42
1:B:352:ILE:CG1	1:B:353:GLN:H	2.32	0.42
1:C:92:VAL:O	1:E:422:THR:OG1	2.28	0.42
1:H:294:ASP:CA	1:H:355:VAL:HG23	2.50	0.42
1:K:364:TYR:CE1	1:K:474:ASN:O	2.73	0.42
1:N:294:ASP:CA	1:N:355:VAL:HG23	2.50	0.42
1:O:57:SER:N	1:o:57:SER:OG	2.52	0.42
1:O:294:ASP:CA	1:O:355:VAL:HG23	2.49	0.42
1:Q:449:ASN:ND2	1:Q:452:ALA:HB3	2.33	0.42
1:S:250:PRO:HA	1:S:281:TYR:CD1	2.55	0.42
1:X:364:TYR:CE1	1:X:474:ASN:O	2.73	0.42
1:Y:250:PRO:HA	1:Y:281:TYR:CD1	2.55	0.42
1:Z:364:TYR:CE1	1:Z:474:ASN:O	2.73	0.42
1:d:255:ASP:OD1	1:d:257:THR:OG1	2.29	0.42
1:d:269:LYS:HB3	1:d:269:LYS:HE2	1.85	0.42
1:d:294:ASP:CA	1:d:355:VAL:HG23	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:294:ASP:CA	1:e:355:VAL:HG23	2.50	0.42
1:f:46:GLU:OE1	1:p:541:ARG:HB2	2.18	0.42
1:g:352:ILE:CG1	1:g:353:GLN:H	2.32	0.42
1:g:352:ILE:CG1	1:g:353:GLN:N	2.82	0.42
1:h:366:VAL:O	1:h:367:LEU:C	2.62	0.42
1:k:294:ASP:CA	1:k:355:VAL:HG23	2.50	0.42
1:k:364:TYR:CE1	1:k:474:ASN:O	2.73	0.42
1:l:294:ASP:CA	1:l:355:VAL:HG23	2.50	0.42
1:p:250:PRO:HA	1:p:281:TYR:CD1	2.55	0.42
1:u:364:TYR:CE1	1:u:474:ASN:O	2.73	0.42
1:w:250:PRO:HA	1:w:281:TYR:CD1	2.54	0.42
1:w:294:ASP:CA	1:w:355:VAL:CG2	2.96	0.42
1:y:449:ASN:ND2	1:y:452:ALA:HB3	2.34	0.42
1:4:294:ASP:CA	1:4:355:VAL:HG23	2.49	0.42
1:7:294:ASP:CA	1:7:355:VAL:HG23	2.50	0.42
1:8:233:MET:N	1:8:234:PRO:CD	2.82	0.42
1:9:298:TYR:CD2	1:9:299:GLU:CG	3.00	0.42
1:A:149:THR:OG1	1:A:150:PRO:CD	2.61	0.42
1:B:294:ASP:CA	1:B:355:VAL:HG23	2.50	0.42
1:C:96:ASP:HB2	1:t:426:THR:HG23	2.01	0.42
1:C:250:PRO:HA	1:C:281:TYR:CD1	2.55	0.42
1:D:366:VAL:O	1:D:367:LEU:C	2.62	0.42
1:E:352:ILE:CG1	1:E:353:GLN:H	2.32	0.42
1:F:364:TYR:CE1	1:F:474:ASN:O	2.73	0.42
1:G:364:TYR:CE1	1:G:474:ASN:O	2.73	0.42
1:I:250:PRO:HA	1:I:281:TYR:CD1	2.55	0.42
1:J:250:PRO:HA	1:J:281:TYR:CD1	2.55	0.42
1:L:364:TYR:CE1	1:L:474:ASN:O	2.73	0.42
1:N:233:MET:N	1:N:234:PRO:CD	2.82	0.42
1:N:298:TYR:CD2	1:N:299:GLU:CG	2.99	0.42
1:R:250:PRO:HA	1:R:281:TYR:CD1	2.55	0.42
1:R:422:THR:HG22	1:v:53:TYR:CG	2.54	0.42
1:T:64:ARG:HA	1:T:64:ARG:HD3	1.91	0.42
1:Z:294:ASP:CA	1:Z:355:VAL:CG2	2.96	0.42
1:a:250:PRO:HA	1:a:281:TYR:CD1	2.54	0.42
1:a:364:TYR:CE1	1:a:474:ASN:O	2.73	0.42
1:e:352:ILE:CG1	1:e:353:GLN:N	2.82	0.42
1:e:364:TYR:CE1	1:e:474:ASN:O	2.73	0.42
1:f:364:TYR:CE1	1:f:474:ASN:O	2.73	0.42
1:g:294:ASP:CA	1:g:355:VAL:CG2	2.96	0.42
1:h:294:ASP:CA	1:h:355:VAL:CG2	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:211:ASP:C	1:j:249:LEU:CD1	2.74	0.42
1:j:250:PRO:HA	1:j:281:TYR:CD1	2.55	0.42
1:j:294:ASP:CA	1:j:355:VAL:CG2	2.96	0.42
1:k:449:ASN:ND2	1:k:452:ALA:HB3	2.34	0.42
1:l:233:MET:N	1:l:234:PRO:CD	2.82	0.42
1:m:364:TYR:CE1	1:m:474:ASN:O	2.73	0.42
1:m:366:VAL:O	1:m:367:LEU:C	2.62	0.42
1:n:233:MET:N	1:n:234:PRO:CD	2.82	0.42
1:o:366:VAL:O	1:o:367:LEU:C	2.62	0.42
1:q:250:PRO:HA	1:q:281:TYR:CD1	2.55	0.42
1:w:364:TYR:CE1	1:w:474:ASN:O	2.73	0.42
1:x:96:ASP:HB2	1:y:426:THR:HG23	2.01	0.42
1:y:294:ASP:CA	1:y:355:VAL:HG23	2.49	0.42
1:4:250:PRO:HA	1:4:281:TYR:CD1	2.55	0.42
1:5:294:ASP:CA	1:5:355:VAL:CG2	2.96	0.42
1:6:46:GLU:OE1	1:M:541:ARG:HB2	2.20	0.42
1:6:250:PRO:HA	1:6:281:TYR:CD1	2.55	0.42
1:6:352:ILE:CG1	1:6:353:GLN:N	2.82	0.42
1:7:366:VAL:O	1:7:367:LEU:C	2.62	0.42
1:7:422:THR:OG1	1:l:92:VAL:O	2.27	0.42
1:9:294:ASP:CA	1:9:355:VAL:HG23	2.49	0.42
1:9:474:ASN:C	1:9:476:ILE:H	2.28	0.42
1:B:257:THR:HG23	1:B:276:GLY:HA2	2.02	0.42
1:B:474:ASN:C	1:B:476:ILE:H	2.28	0.42
1:C:294:ASP:HA	1:C:355:VAL:HG23	2.02	0.42
1:C:294:ASP:CA	1:C:355:VAL:HG23	2.49	0.42
1:D:294:ASP:CA	1:D:355:VAL:HG23	2.49	0.42
1:E:294:ASP:CA	1:E:355:VAL:CG2	2.96	0.42
1:F:541:ARG:HD2	1:F:541:ARG:HA	1.91	0.42
1:I:364:TYR:CE1	1:I:474:ASN:O	2.73	0.42
1:J:366:VAL:O	1:J:367:LEU:C	2.62	0.42
1:O:131:ASN:HA	1:O:178:GLU:HG2	2.00	0.42
1:P:449:ASN:ND2	1:P:452:ALA:HB3	2.33	0.42
1:R:294:ASP:CA	1:R:355:VAL:HG23	2.50	0.42
1:S:149:THR:OG1	1:S:150:PRO:CD	2.61	0.42
1:V:364:TYR:CE1	1:V:474:ASN:O	2.73	0.42
1:V:474:ASN:C	1:V:476:ILE:H	2.28	0.42
1:X:250:PRO:HA	1:X:281:TYR:CD1	2.55	0.42
1:Y:364:TYR:CE1	1:Y:474:ASN:O	2.73	0.42
1:Z:298:TYR:CD2	1:Z:299:GLU:CG	2.99	0.42
1:a:294:ASP:CA	1:a:355:VAL:HG23	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:294:ASP:CA	1:a:355:VAL:CG2	2.96	0.42
1:b:46:GLU:CD	1:r:541:ARG:HB2	2.45	0.42
1:e:250:PRO:HA	1:e:281:TYR:CD1	2.55	0.42
1:j:541:ARG:HD2	1:j:541:ARG:HA	1.91	0.42
1:m:294:ASP:CA	1:m:355:VAL:HG23	2.49	0.42
1:n:364:TYR:CE1	1:n:474:ASN:O	2.73	0.42
1:o:250:PRO:HA	1:o:281:TYR:CD1	2.55	0.42
1:p:364:TYR:CE1	1:p:474:ASN:O	2.73	0.42
1:q:352:ILE:CG1	1:q:353:GLN:N	2.81	0.42
1:u:294:ASP:CA	1:u:355:VAL:HG23	2.50	0.42
1:v:366:VAL:O	1:v:367:LEU:C	2.62	0.42
1:y:294:ASP:CA	1:y:355:VAL:CG2	2.96	0.42
1:2:46:GLU:CD	1:e:541:ARG:HB2	2.45	0.42
1:3:453:VAL:HG11	1:O:451:GLN:OE1	2.19	0.42
1:5:450:GLU:HG2	1:o:451:GLN:HB3	2.02	0.42
1:6:294:ASP:HA	1:6:355:VAL:HG23	2.02	0.42
1:7:233:MET:N	1:7:234:PRO:CD	2.82	0.42
1:A:46:GLU:CD	1:Q:541:ARG:HB2	2.45	0.42
1:A:233:MET:N	1:A:234:PRO:CD	2.82	0.42
1:G:149:THR:HG1	1:G:150:PRO:HD3	1.82	0.42
1:H:250:PRO:HA	1:H:281:TYR:CD1	2.55	0.42
1:H:474:ASN:C	1:H:476:ILE:H	2.28	0.42
1:J:228:VAL:HG11	1:Y:204:GLN:NE2	2.34	0.42
1:K:352:ILE:CG1	1:K:353:GLN:N	2.82	0.42
1:K:474:ASN:C	1:K:476:ILE:H	2.28	0.42
1:L:474:ASN:C	1:L:476:ILE:H	2.28	0.42
1:O:364:TYR:CE1	1:O:474:ASN:O	2.73	0.42
1:O:450:GLU:HG2	1:z:451:GLN:HB3	2.01	0.42
1:P:294:ASP:CA	1:P:355:VAL:HG23	2.50	0.42
1:T:250:PRO:HA	1:T:281:TYR:CD1	2.55	0.42
1:T:449:ASN:ND2	1:T:452:ALA:HB3	2.34	0.42
1:W:250:PRO:HA	1:W:281:TYR:CD1	2.55	0.42
1:X:57:SER:OG	1:a:57:SER:N	2.53	0.42
1:Y:294:ASP:CA	1:Y:355:VAL:HG23	2.50	0.42
1:a:352:ILE:CG1	1:a:353:GLN:H	2.32	0.42
1:b:250:PRO:HA	1:b:281:TYR:CD1	2.55	0.42
1:b:294:ASP:HA	1:b:355:VAL:HG23	2.02	0.42
1:b:541:ARG:HD2	1:b:541:ARG:HA	1.91	0.42
1:d:57:SER:N	1:f:57:SER:OG	2.52	0.42
1:d:366:VAL:O	1:d:367:LEU:C	2.62	0.42
1:g:294:ASP:CA	1:g:355:VAL:HG23	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:364:TYR:CE1	1:g:474:ASN:O	2.73	0.42
1:i:46:GLU:OE1	1:v:541:ARG:HB2	2.20	0.42
1:i:250:PRO:HA	1:i:281:TYR:CD1	2.55	0.42
1:i:449:ASN:ND2	1:i:452:ALA:HB3	2.33	0.42
1:k:366:VAL:O	1:k:367:LEU:C	2.62	0.42
1:n:250:PRO:HA	1:n:281:TYR:CD1	2.55	0.42
1:n:294:ASP:CA	1:n:355:VAL:HG23	2.50	0.42
1:q:364:TYR:CE1	1:q:474:ASN:O	2.73	0.42
1:3:131:ASN:HA	1:3:178:GLU:HG2	2.00	0.42
1:3:294:ASP:HA	1:3:355:VAL:HG23	2.02	0.42
1:5:294:ASP:CA	1:5:355:VAL:HG23	2.50	0.42
1:5:474:ASN:C	1:5:476:ILE:H	2.28	0.42
1:8:257:THR:HG23	1:8:276:GLY:HA2	2.02	0.42
1:A:450:GLU:OE1	1:Q:450:GLU:HG3	2.19	0.42
1:C:364:TYR:CE1	1:C:474:ASN:O	2.73	0.42
1:G:269:LYS:HB3	1:G:269:LYS:HE2	1.85	0.42
1:H:294:ASP:CA	1:H:355:VAL:CG2	2.96	0.42
1:I:294:ASP:CA	1:I:355:VAL:HG23	2.50	0.42
1:J:364:TYR:CE1	1:J:474:ASN:O	2.73	0.42
1:M:352:ILE:CG1	1:M:353:GLN:H	2.32	0.42
1:N:211:ASP:O	1:N:249:LEU:HD11	2.02	0.42
1:O:257:THR:HG23	1:O:276:GLY:HA2	2.02	0.42
1:O:474:ASN:C	1:O:476:ILE:H	2.28	0.42
1:S:366:VAL:O	1:S:367:LEU:C	2.62	0.42
1:V:449:ASN:ND2	1:V:452:ALA:HB3	2.34	0.42
1:V:541:ARG:HB2	1:e:46:GLU:CD	2.45	0.42
1:W:364:TYR:CE1	1:W:474:ASN:O	2.73	0.42
1:X:149:THR:HG1	1:X:150:PRO:HD3	1.81	0.42
1:Y:257:THR:HG23	1:Y:276:GLY:HA2	2.02	0.42
1:Z:250:PRO:HA	1:Z:281:TYR:CD1	2.55	0.42
1:b:57:SER:HA	1:b:58:PRO:HD2	1.81	0.42
1:c:57:SER:HA	1:c:58:PRO:HD2	1.81	0.42
1:c:250:PRO:HA	1:c:281:TYR:CD1	2.55	0.42
1:c:450:GLU:OE1	1:s:450:GLU:CG	2.68	0.42
1:e:257:THR:HG23	1:e:276:GLY:HA2	2.02	0.42
1:e:474:ASN:C	1:e:476:ILE:H	2.28	0.42
1:g:474:ASN:C	1:g:476:ILE:H	2.28	0.42
1:h:298:TYR:CD2	1:h:299:GLU:CG	2.99	0.42
1:i:366:VAL:O	1:i:367:LEU:C	2.62	0.42
1:l:364:TYR:CE1	1:l:474:ASN:O	2.73	0.42
1:n:474:ASN:C	1:n:476:ILE:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:474:ASN:C	1:o:476:ILE:H	2.28	0.42
1:v:364:TYR:CE1	1:v:474:ASN:O	2.73	0.42
1:w:131:ASN:HA	1:w:178:GLU:HG2	2.00	0.42
1:w:294:ASP:CA	1:w:355:VAL:HG23	2.50	0.42
1:y:474:ASN:C	1:y:476:ILE:H	2.28	0.42
1:1:422:THR:HG22	1:u:53:TYR:CE2	2.55	0.42
1:2:352:ILE:CG1	1:2:353:GLN:H	2.32	0.42
1:3:250:PRO:HA	1:3:281:TYR:CD1	2.55	0.42
1:6:294:ASP:CA	1:6:355:VAL:HG23	2.50	0.42
1:7:250:PRO:HA	1:7:281:TYR:CD1	2.55	0.42
1:7:451:GLN:OE1	1:t:453:VAL:HG11	2.20	0.42
1:7:541:ARG:HB2	1:l:46:GLU:OE1	2.20	0.42
1:8:294:ASP:CA	1:8:355:VAL:HG23	2.49	0.42
1:A:352:ILE:CG1	1:A:353:GLN:H	2.32	0.42
1:C:64:ARG:HA	1:C:64:ARG:HD3	1.91	0.42
1:E:364:TYR:CE1	1:E:474:ASN:O	2.73	0.42
1:F:474:ASN:C	1:F:476:ILE:H	2.28	0.42
1:J:294:ASP:HA	1:J:355:VAL:HG23	2.02	0.42
1:M:257:THR:HG23	1:M:276:GLY:HA2	2.02	0.42
1:M:297:ALA:HA	1:M:300:LYS:HD3	2.02	0.42
1:M:474:ASN:C	1:M:476:ILE:H	2.28	0.42
1:N:57:SER:OG	1:w:57:SER:N	2.53	0.42
1:R:257:THR:HG23	1:R:276:GLY:HA2	2.02	0.42
1:S:450:GLU:OE1	1:h:450:GLU:CG	2.68	0.42
1:V:233:MET:N	1:V:234:PRO:CD	2.82	0.42
1:W:366:VAL:O	1:W:367:LEU:C	2.62	0.42
1:Z:352:ILE:CG1	1:Z:353:GLN:N	2.82	0.42
1:Z:366:VAL:O	1:Z:367:LEU:C	2.62	0.42
1:Z:474:ASN:C	1:Z:476:ILE:H	2.28	0.42
1:d:250:PRO:HA	1:d:281:TYR:CD1	2.55	0.42
1:h:257:THR:HG23	1:h:276:GLY:HA2	2.02	0.42
1:h:294:ASP:HA	1:h:355:VAL:HG23	2.02	0.42
1:i:364:TYR:CE1	1:i:474:ASN:O	2.73	0.42
1:k:294:ASP:CA	1:k:355:VAL:CG2	2.96	0.42
1:m:57:SER:N	1:u:57:SER:OG	2.53	0.42
1:m:57:SER:OG	1:u:57:SER:N	2.52	0.42
1:p:474:ASN:C	1:p:476:ILE:H	2.28	0.42
1:r:250:PRO:HA	1:r:281:TYR:CD1	2.55	0.42
1:s:250:PRO:HA	1:s:281:TYR:CD1	2.55	0.42
1:s:364:TYR:CE1	1:s:474:ASN:O	2.73	0.42
1:y:257:THR:HG23	1:y:276:GLY:HA2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:257:THR:HG23	1:z:276:GLY:HA2	2.02	0.42
1:1:57:SER:OG	1:M:57:SER:N	2.52	0.42
1:2:364:TYR:CE1	1:2:474:ASN:O	2.73	0.42
1:2:366:VAL:O	1:2:367:LEU:C	2.62	0.42
1:4:294:ASP:HA	1:4:355:VAL:HG23	2.02	0.42
1:4:352:ILE:CG1	1:4:353:GLN:H	2.32	0.42
1:5:366:VAL:O	1:5:367:LEU:C	2.62	0.42
1:7:298:TYR:CD2	1:7:299:GLU:CG	3.00	0.42
1:8:297:ALA:HA	1:8:300:LYS:HD3	2.02	0.42
1:8:298:TYR:HD2	1:8:299:GLU:CG	2.20	0.42
1:8:450:GLU:CG	1:K:450:GLU:OE1	2.68	0.42
1:A:250:PRO:HA	1:A:281:TYR:CD1	2.55	0.42
1:A:257:THR:HG23	1:A:276:GLY:HA2	2.02	0.42
1:A:297:ALA:HA	1:A:300:LYS:HD3	2.02	0.42
1:C:366:VAL:O	1:C:367:LEU:C	2.62	0.42
1:D:294:ASP:CA	1:D:355:VAL:CG2	2.96	0.42
1:G:46:GLU:CD	1:u:541:ARG:HB2	2.44	0.42
1:G:257:THR:HG23	1:G:276:GLY:HA2	2.02	0.42
1:G:294:ASP:CA	1:G:355:VAL:HG23	2.50	0.42
1:H:364:TYR:CE1	1:H:474:ASN:O	2.73	0.42
1:J:297:ALA:HA	1:J:300:LYS:HD3	2.02	0.42
1:K:297:ALA:HA	1:K:300:LYS:HD3	2.02	0.42
1:M:294:ASP:CA	1:M:355:VAL:HG23	2.50	0.42
1:O:297:ALA:HA	1:O:300:LYS:HD3	2.02	0.42
1:Q:257:THR:HG23	1:Q:276:GLY:HA2	2.02	0.42
1:Q:294:ASP:CA	1:Q:355:VAL:HG23	2.50	0.42
1:Q:474:ASN:C	1:Q:476:ILE:H	2.28	0.42
1:R:422:THR:OG1	1:v:92:VAL:O	2.27	0.42
1:X:352:ILE:CG1	1:X:353:GLN:H	2.32	0.42
1:a:204:GLN:NE2	1:x:228:VAL:HG11	2.34	0.42
1:a:269:LYS:HB3	1:a:269:LYS:HE2	1.85	0.42
1:f:257:THR:HG23	1:f:276:GLY:HA2	2.02	0.42
1:h:294:ASP:CA	1:h:355:VAL:HG23	2.49	0.42
1:i:269:LYS:HB3	1:i:269:LYS:HE2	1.85	0.42
1:j:294:ASP:CA	1:j:355:VAL:HG23	2.50	0.42
1:j:297:ALA:HA	1:j:300:LYS:HD3	2.02	0.42
1:q:386:ASP:HA	1:q:387:PRO:HD3	1.95	0.42
1:s:257:THR:HG23	1:s:276:GLY:HA2	2.02	0.42
1:t:541:ARG:HD2	1:t:541:ARG:HA	1.91	0.42
1:1:454:TYR:HD1	1:1:457:GLN:HG2	1.85	0.41
1:1:474:ASN:C	1:1:476:ILE:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:257:THR:HG23	1:2:276:GLY:HA2	2.02	0.41
1:4:57:SER:HA	1:4:58:PRO:HD2	1.81	0.41
1:4:366:VAL:O	1:4:367:LEU:C	2.62	0.41
1:4:474:ASN:C	1:4:476:ILE:H	2.28	0.41
1:5:250:PRO:HA	1:5:281:TYR:CD1	2.55	0.41
1:5:269:LYS:HB3	1:5:269:LYS:HE2	1.85	0.41
1:6:64:ARG:HA	1:6:64:ARG:HD3	1.91	0.41
1:A:541:ARG:HB2	1:t:46:GLU:CD	2.45	0.41
1:C:204:GLN:NE2	1:E:228:VAL:HG11	2.35	0.41
1:D:454:TYR:HD1	1:D:457:GLN:HG2	1.85	0.41
1:F:294:ASP:HA	1:F:355:VAL:HG23	2.02	0.41
1:F:294:ASP:CA	1:F:355:VAL:HG23	2.50	0.41
1:I:257:THR:HG23	1:I:276:GLY:HA2	2.02	0.41
1:K:294:ASP:CA	1:K:355:VAL:HG23	2.50	0.41
1:L:294:ASP:CA	1:L:355:VAL:HG23	2.50	0.41
1:L:454:TYR:HD1	1:L:457:GLN:HG2	1.85	0.41
1:N:149:THR:OG1	1:N:150:PRO:CD	2.61	0.41
1:Q:364:TYR:CE1	1:Q:474:ASN:O	2.73	0.41
1:Q:450:GLU:OE1	1:l:450:GLU:CG	2.68	0.41
1:Q:541:ARG:HD2	1:Q:541:ARG:HA	1.91	0.41
1:R:449:ASN:ND2	1:R:452:ALA:HB3	2.34	0.41
1:T:294:ASP:CA	1:T:355:VAL:HG23	2.49	0.41
1:W:257:THR:HG23	1:W:276:GLY:HA2	2.02	0.41
1:a:46:GLU:OE1	1:x:541:ARG:HB2	2.20	0.41
1:a:454:TYR:HD1	1:a:457:GLN:HG2	1.85	0.41
1:b:364:TYR:CE1	1:b:474:ASN:O	2.73	0.41
1:c:450:GLU:OE1	1:s:450:GLU:HG3	2.20	0.41
1:f:449:ASN:ND2	1:f:452:ALA:HB3	2.33	0.41
1:f:454:TYR:HD1	1:f:457:GLN:HG2	1.86	0.41
1:g:257:THR:HG23	1:g:276:GLY:HA2	2.02	0.41
1:j:364:TYR:CE1	1:j:474:ASN:O	2.73	0.41
1:n:57:SER:HA	1:n:58:PRO:HD2	1.81	0.41
1:n:366:VAL:O	1:n:367:LEU:C	2.62	0.41
1:o:257:THR:HG23	1:o:276:GLY:HA2	2.02	0.41
1:r:541:ARG:HD2	1:r:541:ARG:HA	1.91	0.41
1:t:366:VAL:O	1:t:367:LEU:C	2.62	0.41
1:u:64:ARG:HA	1:u:64:ARG:HD3	1.91	0.41
1:u:250:PRO:HA	1:u:281:TYR:CD1	2.55	0.41
1:u:297:ALA:HA	1:u:300:LYS:HD3	2.02	0.41
1:w:352:ILE:CG1	1:w:353:GLN:H	2.32	0.41
1:w:366:VAL:O	1:w:367:LEU:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:454:TYR:HD1	1:z:457:GLN:HG2	1.85	0.41
1:3:298:TYR:CD2	1:3:299:GLU:CG	2.99	0.41
1:4:364:TYR:CE1	1:4:474:ASN:O	2.73	0.41
1:6:257:THR:HG23	1:6:276:GLY:HA2	2.02	0.41
1:7:64:ARG:HA	1:7:64:ARG:HD3	1.91	0.41
1:9:366:VAL:O	1:9:367:LEU:C	2.62	0.41
1:B:297:ALA:HA	1:B:300:LYS:HD3	2.02	0.41
1:B:364:TYR:CE1	1:B:474:ASN:O	2.73	0.41
1:C:453:VAL:HG11	1:y:451:GLN:OE1	2.19	0.41
1:E:294:ASP:CA	1:E:355:VAL:HG23	2.50	0.41
1:E:449:ASN:ND2	1:E:452:ALA:HB3	2.34	0.41
1:F:250:PRO:HA	1:F:281:TYR:CD1	2.54	0.41
1:F:449:ASN:ND2	1:F:452:ALA:HB3	2.34	0.41
1:I:454:TYR:HD1	1:I:457:GLN:HG2	1.86	0.41
1:I:541:ARG:HD2	1:I:541:ARG:HA	1.91	0.41
1:J:352:ILE:CG1	1:J:353:GLN:H	2.32	0.41
1:J:352:ILE:CG1	1:J:353:GLN:N	2.82	0.41
1:J:450:GLU:OE1	1:o:450:GLU:CG	2.68	0.41
1:L:541:ARG:HD2	1:L:541:ARG:HA	1.91	0.41
1:M:57:SER:HA	1:M:58:PRO:HD2	1.81	0.41
1:M:366:VAL:O	1:M:367:LEU:C	2.62	0.41
1:N:257:THR:HG23	1:N:276:GLY:HA2	2.02	0.41
1:N:449:ASN:ND2	1:N:452:ALA:HB3	2.33	0.41
1:O:454:TYR:HD1	1:O:457:GLN:HG2	1.86	0.41
1:P:250:PRO:HA	1:P:281:TYR:CD1	2.55	0.41
1:R:352:ILE:CG1	1:R:353:GLN:H	2.32	0.41
1:T:46:GLU:CD	1:j:541:ARG:HB2	2.45	0.41
1:V:294:ASP:HA	1:V:355:VAL:HG23	2.02	0.41
1:X:454:TYR:HD1	1:X:457:GLN:HG2	1.86	0.41
1:Z:294:ASP:CA	1:Z:355:VAL:HG23	2.49	0.41
1:b:454:TYR:HD1	1:b:457:GLN:HG2	1.86	0.41
1:c:474:ASN:C	1:c:476:ILE:H	2.28	0.41
1:d:257:THR:HG23	1:d:276:GLY:HA2	2.02	0.41
1:e:298:TYR:HD2	1:e:299:GLU:CG	2.20	0.41
1:f:250:PRO:HA	1:f:281:TYR:CD1	2.55	0.41
1:f:352:ILE:CG1	1:f:353:GLN:N	2.82	0.41
1:h:364:TYR:CE1	1:h:474:ASN:O	2.73	0.41
1:j:352:ILE:CG1	1:j:353:GLN:H	2.32	0.41
1:k:250:PRO:HA	1:k:281:TYR:CD1	2.55	0.41
1:l:474:ASN:C	1:l:476:ILE:H	2.28	0.41
1:n:454:TYR:HD1	1:n:457:GLN:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:297:ALA:HA	1:o:300:LYS:HD3	2.02	0.41
1:q:366:VAL:O	1:q:367:LEU:C	2.62	0.41
1:r:257:THR:HG23	1:r:276:GLY:HA2	2.02	0.41
1:s:294:ASP:HA	1:s:355:VAL:HG23	2.02	0.41
1:t:250:PRO:HA	1:t:281:TYR:CD1	2.55	0.41
1:v:352:ILE:CG1	1:v:353:GLN:N	2.81	0.41
1:x:294:ASP:CA	1:x:355:VAL:HG23	2.50	0.41
1:y:352:ILE:CG1	1:y:353:GLN:N	2.82	0.41
1:1:257:THR:HG23	1:1:276:GLY:HA2	2.02	0.41
1:5:454:TYR:HD1	1:5:457:GLN:HG2	1.85	0.41
1:7:294:ASP:CA	1:7:355:VAL:CG2	2.96	0.41
1:7:454:TYR:HD1	1:7:457:GLN:HG2	1.85	0.41
1:8:454:TYR:HD1	1:8:457:GLN:HG2	1.86	0.41
1:9:250:PRO:HA	1:9:281:TYR:CD1	2.55	0.41
1:A:294:ASP:CA	1:A:355:VAL:CG2	2.96	0.41
1:A:454:TYR:HD1	1:A:457:GLN:HG2	1.85	0.41
1:B:454:TYR:HD1	1:B:457:GLN:HG2	1.86	0.41
1:I:297:ALA:HA	1:I:300:LYS:HD3	2.02	0.41
1:K:250:PRO:HA	1:K:281:TYR:CD1	2.55	0.41
1:L:250:PRO:HA	1:L:281:TYR:CD1	2.54	0.41
1:M:454:TYR:HD1	1:M:457:GLN:HG2	1.86	0.41
1:N:364:TYR:CE1	1:N:474:ASN:O	2.73	0.41
1:P:294:ASP:HA	1:P:355:VAL:HG23	2.02	0.41
1:P:454:TYR:HD1	1:P:457:GLN:HG2	1.86	0.41
1:Q:250:PRO:HA	1:Q:281:TYR:CD1	2.55	0.41
1:R:294:ASP:HA	1:R:355:VAL:HG23	2.02	0.41
1:R:352:ILE:CG1	1:R:353:GLN:N	2.82	0.41
1:S:454:TYR:HD1	1:S:457:GLN:HG2	1.85	0.41
1:T:257:THR:HG23	1:T:276:GLY:HA2	2.02	0.41
1:T:364:TYR:CE1	1:T:474:ASN:O	2.73	0.41
1:X:257:THR:HG23	1:X:276:GLY:HA2	2.02	0.41
1:Y:449:ASN:ND2	1:Y:452:ALA:HB3	2.33	0.41
1:a:422:THR:OG1	1:p:92:VAL:O	2.27	0.41
1:b:294:ASP:CA	1:b:355:VAL:CG2	2.96	0.41
1:c:352:ILE:CG1	1:c:353:GLN:H	2.32	0.41
1:f:294:ASP:CA	1:f:355:VAL:HG23	2.50	0.41
1:g:454:TYR:HD1	1:g:457:GLN:HG2	1.86	0.41
1:h:57:SER:HA	1:h:58:PRO:HD2	1.81	0.41
1:h:474:ASN:C	1:h:476:ILE:H	2.28	0.41
1:i:294:ASP:CA	1:i:355:VAL:HG23	2.50	0.41
1:i:474:ASN:C	1:i:476:ILE:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:64:ARG:HA	1:l:64:ARG:HD3	1.91	0.41
1:m:454:TYR:HD1	1:m:457:GLN:HG2	1.86	0.41
1:p:454:TYR:HD1	1:p:457:GLN:HG2	1.85	0.41
1:r:294:ASP:CA	1:r:355:VAL:HG23	2.49	0.41
1:r:297:ALA:HA	1:r:300:LYS:HD3	2.02	0.41
1:s:294:ASP:CA	1:s:355:VAL:HG23	2.50	0.41
1:t:474:ASN:C	1:t:476:ILE:H	2.28	0.41
1:u:541:ARG:HD2	1:u:541:ARG:HA	1.91	0.41
1:x:294:ASP:HA	1:x:355:VAL:HG23	2.02	0.41
1:y:297:ALA:HA	1:y:300:LYS:HD3	2.02	0.41
1:z:352:ILE:CG1	1:z:353:GLN:N	2.81	0.41
1:z:364:TYR:CE1	1:z:474:ASN:O	2.73	0.41
1:1:364:TYR:CE1	1:1:474:ASN:O	2.73	0.41
1:2:294:ASP:CA	1:2:355:VAL:HG23	2.50	0.41
1:2:474:ASN:C	1:2:476:ILE:H	2.28	0.41
1:5:450:GLU:HG3	1:o:450:GLU:OE1	2.20	0.41
1:6:450:GLU:OE1	1:M:450:GLU:HG3	2.20	0.41
1:A:451:GLN:OE1	1:Q:453:VAL:HG11	2.20	0.41
1:B:57:SER:CA	1:h:57:SER:HG	2.33	0.41
1:B:250:PRO:HA	1:B:281:TYR:CD1	2.55	0.41
1:C:257:THR:HG23	1:C:276:GLY:HA2	2.02	0.41
1:D:474:ASN:C	1:D:476:ILE:H	2.28	0.41
1:E:298:TYR:HD2	1:E:299:GLU:CG	2.20	0.41
1:E:454:TYR:HD1	1:E:457:GLN:HG2	1.86	0.41
1:H:257:THR:HG23	1:H:276:GLY:HA2	2.02	0.41
1:J:294:ASP:CA	1:J:355:VAL:CG2	2.96	0.41
1:J:541:ARG:HD2	1:J:541:ARG:HA	1.91	0.41
1:K:541:ARG:HB2	1:k:46:GLU:CD	2.45	0.41
1:N:250:PRO:HA	1:N:281:TYR:CD1	2.55	0.41
1:N:352:ILE:CG1	1:N:353:GLN:H	2.32	0.41
1:P:541:ARG:HD2	1:P:541:ARG:HA	1.91	0.41
1:Q:451:GLN:OE1	1:l:453:VAL:HG11	2.21	0.41
1:S:364:TYR:CE1	1:S:474:ASN:O	2.73	0.41
1:V:454:TYR:HD1	1:V:457:GLN:HG2	1.86	0.41
1:X:294:ASP:CA	1:X:355:VAL:HG23	2.50	0.41
1:X:366:VAL:O	1:X:367:LEU:C	2.62	0.41
1:Z:96:ASP:HB2	1:r:426:THR:HG23	2.02	0.41
1:c:364:TYR:CE1	1:c:474:ASN:O	2.73	0.41
1:e:269:LYS:HB3	1:e:269:LYS:HE2	1.85	0.41
1:l:250:PRO:HA	1:l:281:TYR:CD1	2.55	0.41
1:l:294:ASP:CA	1:l:355:VAL:CG2	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:257:THR:HG23	1:q:276:GLY:HA2	2.02	0.41
1:t:64:ARG:HA	1:t:64:ARG:HD3	1.91	0.41
1:u:57:SER:HA	1:u:58:PRO:HD2	1.81	0.41
1:u:454:TYR:HD1	1:u:457:GLN:HG2	1.85	0.41
1:z:474:ASN:C	1:z:476:ILE:H	2.28	0.41
1:1:294:ASP:CA	1:1:355:VAL:HG23	2.50	0.41
1:1:366:VAL:O	1:1:367:LEU:C	2.62	0.41
1:4:46:GLU:CD	1:N:541:ARG:HB2	2.45	0.41
1:6:454:TYR:HD1	1:6:457:GLN:HG2	1.85	0.41
1:8:57:SER:CA	1:y:57:SER:HG	2.33	0.41
1:A:474:ASN:C	1:A:476:ILE:H	2.28	0.41
1:D:352:ILE:CG1	1:D:353:GLN:N	2.82	0.41
1:G:138:LYS:NZ	1:G:175:GLU:OE2	2.35	0.41
1:I:451:GLN:OE1	1:Z:453:VAL:HG11	2.21	0.41
1:L:57:SER:HA	1:L:58:PRO:HD2	1.81	0.41
1:P:364:TYR:CE1	1:P:474:ASN:O	2.73	0.41
1:R:454:TYR:HD1	1:R:457:GLN:HG2	1.86	0.41
1:S:474:ASN:C	1:S:476:ILE:H	2.28	0.41
1:V:294:ASP:CA	1:V:355:VAL:CG2	2.96	0.41
1:V:352:ILE:CG1	1:V:353:GLN:N	2.81	0.41
1:W:64:ARG:HA	1:W:64:ARG:HD3	1.91	0.41
1:X:474:ASN:C	1:X:476:ILE:H	2.28	0.41
1:Y:454:TYR:HD1	1:Y:457:GLN:HG2	1.86	0.41
1:b:297:ALA:HA	1:b:300:LYS:HD3	2.02	0.41
1:d:426:THR:HG23	1:q:96:ASP:HB2	2.02	0.41
1:e:297:ALA:HA	1:e:300:LYS:HD3	2.02	0.41
1:h:449:ASN:ND2	1:h:452:ALA:HB3	2.33	0.41
1:i:422:THR:OG1	1:j:92:VAL:O	2.31	0.41
1:k:454:TYR:HD1	1:k:457:GLN:HG2	1.86	0.41
1:m:294:ASP:CA	1:m:355:VAL:CG2	2.96	0.41
1:m:352:ILE:CG1	1:m:353:GLN:H	2.32	0.41
1:m:352:ILE:CG1	1:m:353:GLN:N	2.82	0.41
1:m:474:ASN:C	1:m:476:ILE:H	2.28	0.41
1:o:352:ILE:CG1	1:o:353:GLN:N	2.82	0.41
1:o:364:TYR:CE1	1:o:474:ASN:O	2.73	0.41
1:q:449:ASN:ND2	1:q:452:ALA:HB3	2.34	0.41
1:q:474:ASN:C	1:q:476:ILE:H	2.28	0.41
1:s:474:ASN:C	1:s:476:ILE:H	2.28	0.41
1:u:294:ASP:HA	1:u:355:VAL:HG23	2.02	0.41
1:v:474:ASN:C	1:v:476:ILE:H	2.28	0.41
1:x:250:PRO:HA	1:x:281:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:96:ASP:HB2	1:b:426:THR:HG23	2.02	0.41
1:1:297:ALA:HA	1:1:300:LYS:HD3	2.02	0.41
1:2:454:TYR:HD1	1:2:457:GLN:HG2	1.86	0.41
1:3:352:ILE:CG1	1:3:353:GLN:N	2.81	0.41
1:6:294:ASP:CA	1:6:355:VAL:CG2	2.96	0.41
1:6:364:TYR:CE1	1:6:474:ASN:O	2.73	0.41
1:9:450:GLU:OE1	1:n:450:GLU:HG3	2.20	0.41
1:9:454:TYR:HD1	1:9:457:GLN:HG2	1.86	0.41
1:A:298:TYR:CD2	1:A:299:GLU:CG	3.00	0.41
1:B:209:GLU:CD	1:B:471:PHE:HE1	2.29	0.41
1:C:297:ALA:HA	1:C:300:LYS:HD3	2.02	0.41
1:F:453:VAL:HG11	1:H:451:GLN:OE1	2.21	0.41
1:H:352:ILE:CG1	1:H:353:GLN:H	2.32	0.41
1:I:450:GLU:OE1	1:Z:450:GLU:CG	2.68	0.41
1:I:474:ASN:C	1:I:476:ILE:H	2.28	0.41
1:L:109:PHE:HB3	1:L:115:TRP:CE2	2.56	0.41
1:L:352:ILE:CG1	1:L:353:GLN:H	2.32	0.41
1:M:46:GLU:OE1	1:b:541:ARG:HB2	2.21	0.41
1:P:109:PHE:HB3	1:P:115:TRP:CE2	2.56	0.41
1:Q:297:ALA:HA	1:Q:300:LYS:HD3	2.02	0.41
1:V:257:THR:HG23	1:V:276:GLY:HA2	2.02	0.41
1:W:297:ALA:HA	1:W:300:LYS:HD3	2.02	0.41
1:W:474:ASN:C	1:W:476:ILE:H	2.28	0.41
1:X:297:ALA:HA	1:X:300:LYS:HD3	2.02	0.41
1:X:449:ASN:ND2	1:X:452:ALA:HB3	2.33	0.41
1:a:474:ASN:C	1:a:476:ILE:H	2.28	0.41
1:c:541:ARG:HB2	1:m:46:GLU:CD	2.44	0.41
1:d:474:ASN:C	1:d:476:ILE:H	2.28	0.41
1:i:64:ARG:HD3	1:i:64:ARG:HA	1.91	0.41
1:k:370:LYS:HG3	1:k:371:ILE:N	2.34	0.41
1:l:454:TYR:HD1	1:l:457:GLN:HG2	1.86	0.41
1:m:294:ASP:HA	1:m:355:VAL:HG23	2.02	0.41
1:q:294:ASP:CA	1:q:355:VAL:HG23	2.50	0.41
1:q:454:TYR:HD1	1:q:457:GLN:HG2	1.85	0.41
1:t:294:ASP:HA	1:t:355:VAL:HG23	2.02	0.41
1:t:294:ASP:CA	1:t:355:VAL:HG23	2.50	0.41
1:t:298:TYR:CD2	1:t:299:GLU:CG	3.00	0.41
1:t:454:TYR:HD1	1:t:457:GLN:HG2	1.86	0.41
1:z:366:VAL:O	1:z:367:LEU:C	2.62	0.41
1:1:109:PHE:HB3	1:1:115:TRP:CE2	2.56	0.41
1:1:298:TYR:CD2	1:1:299:GLU:CG	3.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:297:ALA:HA	1:2:300:LYS:HD3	2.02	0.41
1:3:109:PHE:HB3	1:3:115:TRP:CE2	2.56	0.41
1:3:257:THR:HG23	1:3:276:GLY:HA2	2.02	0.41
1:3:454:TYR:HD1	1:3:457:GLN:HG2	1.85	0.41
1:3:474:ASN:C	1:3:476:ILE:H	2.28	0.41
1:4:109:PHE:HB3	1:4:115:TRP:CE2	2.56	0.41
1:4:352:ILE:CG1	1:4:353:GLN:N	2.81	0.41
1:4:454:TYR:HD1	1:4:457:GLN:HG2	1.85	0.41
1:6:109:PHE:HB3	1:6:115:TRP:CE2	2.56	0.41
1:7:46:GLU:CD	1:t:541:ARG:HB2	2.46	0.41
1:8:269:LYS:HB3	1:8:269:LYS:HE2	1.85	0.41
1:B:541:ARG:HD2	1:B:541:ARG:HA	1.91	0.41
1:D:57:SER:HA	1:D:58:PRO:HD2	1.81	0.41
1:D:149:THR:OG1	1:D:150:PRO:CD	2.61	0.41
1:E:297:ALA:HA	1:E:300:LYS:HD3	2.02	0.41
1:F:109:PHE:HB3	1:F:115:TRP:CE2	2.56	0.41
1:F:209:GLU:CD	1:F:471:PHE:HE1	2.29	0.41
1:G:109:PHE:HB3	1:G:115:TRP:CE2	2.56	0.41
1:H:454:TYR:HD1	1:H:457:GLN:HG2	1.86	0.41
1:I:541:ARG:HB2	1:s:46:GLU:CD	2.45	0.41
1:J:209:GLU:CD	1:J:471:PHE:HE1	2.29	0.41
1:R:209:GLU:CD	1:R:471:PHE:HE1	2.29	0.41
1:R:297:ALA:HA	1:R:300:LYS:HD3	2.02	0.41
1:S:209:GLU:CD	1:S:471:PHE:HE1	2.29	0.41
1:S:297:ALA:HA	1:S:300:LYS:HD3	2.02	0.41
1:T:454:TYR:HD1	1:T:457:GLN:HG2	1.86	0.41
1:W:294:ASP:HA	1:W:355:VAL:HG23	2.02	0.41
1:W:454:TYR:HD1	1:W:457:GLN:HG2	1.86	0.41
1:X:450:GLU:OE1	1:w:450:GLU:CG	2.68	0.41
1:X:451:GLN:OE1	1:w:453:VAL:HG11	2.20	0.41
1:Y:297:ALA:HA	1:Y:300:LYS:HD3	2.02	0.41
1:a:366:VAL:O	1:a:367:LEU:C	2.62	0.41
1:b:352:ILE:CG1	1:b:353:GLN:H	2.32	0.41
1:c:352:ILE:CG1	1:c:353:GLN:N	2.81	0.41
1:d:297:ALA:HA	1:d:300:LYS:HD3	2.02	0.41
1:d:364:TYR:CE1	1:d:474:ASN:O	2.73	0.41
1:f:541:ARG:HD2	1:f:541:ARG:HA	1.91	0.41
1:g:209:GLU:CD	1:g:471:PHE:HE1	2.29	0.41
1:g:297:ALA:HA	1:g:300:LYS:HD3	2.02	0.41
1:i:109:PHE:HB3	1:i:115:TRP:CE2	2.56	0.41
1:m:109:PHE:HB3	1:m:115:TRP:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:297:ALA:HA	1:n:300:LYS:HD3	2.02	0.41
1:p:294:ASP:HA	1:p:355:VAL:HG23	2.02	0.41
1:r:364:TYR:CE1	1:r:474:ASN:O	2.73	0.41
1:s:352:ILE:CG1	1:s:353:GLN:H	2.32	0.41
1:z:109:PHE:HB3	1:z:115:TRP:CE2	2.56	0.41
1:4:450:GLU:OE1	1:N:450:GLU:HG3	2.20	0.41
1:5:109:PHE:HB3	1:5:115:TRP:CE2	2.56	0.41
1:5:257:THR:HG23	1:5:276:GLY:HA2	2.02	0.41
1:5:453:VAL:HG11	1:o:451:GLN:OE1	2.21	0.41
1:6:474:ASN:C	1:6:476:ILE:H	2.28	0.41
1:7:474:ASN:C	1:7:476:ILE:H	2.28	0.41
1:8:209:GLU:CD	1:8:471:PHE:HE1	2.29	0.41
1:A:422:THR:OG1	1:t:92:VAL:O	2.30	0.41
1:E:257:THR:HG23	1:E:276:GLY:HA2	2.02	0.41
1:E:366:VAL:O	1:E:367:LEU:C	2.62	0.41
1:F:352:ILE:CG1	1:F:353:GLN:N	2.82	0.41
1:G:294:ASP:HA	1:G:355:VAL:HG23	2.02	0.41
1:G:454:TYR:HD1	1:G:457:GLN:HG2	1.86	0.41
1:H:109:PHE:HB3	1:H:115:TRP:CE2	2.56	0.41
1:L:257:THR:HG23	1:L:276:GLY:HA2	2.02	0.41
1:M:109:PHE:HB3	1:M:115:TRP:CE2	2.56	0.41
1:N:294:ASP:CA	1:N:355:VAL:CG2	2.96	0.41
1:N:474:ASN:C	1:N:476:ILE:H	2.28	0.41
1:P:257:THR:HG23	1:P:276:GLY:HA2	2.02	0.41
1:P:474:ASN:C	1:P:476:ILE:H	2.28	0.41
1:P:541:ARG:HB2	1:d:46:GLU:CD	2.45	0.41
1:T:109:PHE:HB3	1:T:115:TRP:CE2	2.56	0.41
1:T:297:ALA:HA	1:T:300:LYS:HD3	2.02	0.41
1:T:350:ILE:O	1:T:350:ILE:HG22	2.21	0.41
1:Y:109:PHE:HB3	1:Y:115:TRP:CE2	2.56	0.41
1:Y:350:ILE:O	1:Y:350:ILE:HG22	2.21	0.41
1:c:228:VAL:HG11	1:m:204:GLN:NE2	2.36	0.41
1:c:294:ASP:HA	1:c:355:VAL:HG23	2.02	0.41
1:d:109:PHE:HB3	1:d:115:TRP:CE2	2.56	0.41
1:d:454:TYR:HD1	1:d:457:GLN:HG2	1.85	0.41
1:e:109:PHE:HB3	1:e:115:TRP:CE2	2.56	0.41
1:f:352:ILE:CG1	1:f:353:GLN:H	2.32	0.41
1:k:474:ASN:C	1:k:476:ILE:H	2.28	0.41
1:o:294:ASP:CA	1:o:355:VAL:HG23	2.50	0.41
1:o:352:ILE:CG1	1:o:353:GLN:H	2.32	0.41
1:q:209:GLU:CD	1:q:471:PHE:HE1	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:541:ARG:HD2	1:q:541:ARG:HA	1.91	0.41
1:r:109:PHE:HB3	1:r:115:TRP:CE2	2.56	0.41
1:s:109:PHE:HB3	1:s:115:TRP:CE2	2.56	0.41
1:t:257:THR:HG23	1:t:276:GLY:HA2	2.02	0.41
1:t:297:ALA:HA	1:t:300:LYS:HD3	2.02	0.41
1:u:352:ILE:CG1	1:u:353:GLN:H	2.32	0.41
1:v:269:LYS:HB3	1:v:269:LYS:HE2	1.85	0.41
1:v:370:LYS:HG3	1:v:371:ILE:N	2.34	0.41
1:w:297:ALA:HA	1:w:300:LYS:HD3	2.02	0.41
1:w:474:ASN:C	1:w:476:ILE:H	2.28	0.41
1:x:209:GLU:CD	1:x:471:PHE:HE1	2.29	0.41
1:z:209:GLU:CD	1:z:471:PHE:HE1	2.29	0.41
1:1:350:ILE:O	1:1:350:ILE:HG22	2.21	0.41
1:2:109:PHE:HB3	1:2:115:TRP:CE2	2.56	0.41
1:3:297:ALA:HA	1:3:300:LYS:HD3	2.02	0.41
1:4:249:LEU:HD23	1:4:249:LEU:HA	1.96	0.41
1:4:294:ASP:CA	1:4:355:VAL:CG2	2.96	0.41
1:5:209:GLU:CD	1:5:471:PHE:HE1	2.29	0.41
1:5:352:ILE:CG1	1:5:353:GLN:N	2.82	0.41
1:5:541:ARG:HD2	1:5:541:ARG:HA	1.91	0.41
1:6:297:ALA:HA	1:6:300:LYS:HD3	2.02	0.41
1:6:370:LYS:HG3	1:6:371:ILE:N	2.34	0.41
1:7:109:PHE:HB3	1:7:115:TRP:CE2	2.56	0.41
1:7:209:GLU:CD	1:7:471:PHE:HE1	2.29	0.41
1:7:228:VAL:HG11	1:1:204:GLN:NE2	2.36	0.41
1:7:297:ALA:HA	1:7:300:LYS:HD3	2.02	0.41
1:8:474:ASN:C	1:8:476:ILE:H	2.28	0.41
1:9:269:LYS:HB3	1:9:269:LYS:HE2	1.85	0.41
1:9:352:ILE:CG1	1:9:353:GLN:N	2.82	0.41
1:C:209:GLU:CD	1:C:471:PHE:HE1	2.29	0.41
1:D:57:SER:N	1:J:57:SER:OG	2.54	0.41
1:D:96:ASP:HB2	1:o:426:THR:HG23	2.02	0.41
1:D:209:GLU:CD	1:D:471:PHE:HE1	2.29	0.41
1:D:352:ILE:CG1	1:D:353:GLN:H	2.32	0.41
1:E:541:ARG:HD2	1:E:541:ARG:HA	1.91	0.41
1:F:352:ILE:CG1	1:F:353:GLN:H	2.32	0.41
1:F:454:TYR:HD1	1:F:457:GLN:HG2	1.86	0.41
1:G:64:ARG:HA	1:G:64:ARG:HD3	1.92	0.41
1:H:297:ALA:HA	1:H:300:LYS:HD3	2.02	0.41
1:H:541:ARG:HB2	1:V:46:GLU:CD	2.46	0.41
1:J:109:PHE:HB3	1:J:115:TRP:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:350:ILE:O	1:J:350:ILE:HG22	2.21	0.41
1:M:352:ILE:CG1	1:M:353:GLN:N	2.82	0.41
1:N:56:LEU:HB2	1:N:57:SER:H	1.77	0.41
1:N:297:ALA:HA	1:N:300:LYS:HD3	2.02	0.41
1:O:541:ARG:HB2	1:z:46:GLU:OE1	2.21	0.41
1:P:228:VAL:HG11	1:d:204:GLN:CD	2.45	0.41
1:P:366:VAL:O	1:P:367:LEU:C	2.62	0.41
1:P:450:GLU:OE1	1:z:450:GLU:CG	2.69	0.41
1:P:450:GLU:OE1	1:z:450:GLU:HG3	2.21	0.41
1:R:298:TYR:CD2	1:R:299:GLU:CG	2.99	0.41
1:S:352:ILE:CG1	1:S:353:GLN:H	2.32	0.41
1:T:149:THR:HG1	1:T:150:PRO:HD3	1.84	0.41
1:V:57:SER:HA	1:V:58:PRO:HD2	1.81	0.41
1:V:370:LYS:HG3	1:V:371:ILE:N	2.34	0.41
1:W:109:PHE:HB3	1:W:115:TRP:CE2	2.56	0.41
1:W:294:ASP:CA	1:W:355:VAL:HG23	2.49	0.41
1:Y:57:SER:HG	1:i:57:SER:CA	2.34	0.41
1:Z:209:GLU:CD	1:Z:471:PHE:HE1	2.29	0.41
1:Z:257:THR:HG23	1:Z:276:GLY:HA2	2.02	0.41
1:Z:352:ILE:CG1	1:Z:353:GLN:H	2.32	0.41
1:Z:451:GLN:HB3	1:m:450:GLU:HG2	2.02	0.41
1:c:257:THR:HG23	1:c:276:GLY:HA2	2.02	0.41
1:c:366:VAL:O	1:c:367:LEU:C	2.62	0.41
1:c:454:TYR:HD1	1:c:457:GLN:HG2	1.85	0.41
1:e:56:LEU:HB2	1:e:57:SER:H	1.77	0.41
1:e:454:TYR:HD1	1:e:457:GLN:HG2	1.86	0.41
1:e:541:ARG:HD2	1:e:541:ARG:HA	1.91	0.41
1:f:109:PHE:HB3	1:f:115:TRP:CE2	2.56	0.41
1:f:474:ASN:C	1:f:476:ILE:H	2.28	0.41
1:g:350:ILE:O	1:g:350:ILE:HG22	2.21	0.41
1:h:351:VAL:O	1:h:352:ILE:C	2.64	0.41
1:i:257:THR:HG23	1:i:276:GLY:HA2	2.02	0.41
1:j:350:ILE:O	1:j:350:ILE:HG22	2.21	0.41
1:j:449:ASN:ND2	1:j:452:ALA:HB3	2.33	0.41
1:j:474:ASN:C	1:j:476:ILE:H	2.28	0.41
1:k:109:PHE:HB3	1:k:115:TRP:CE2	2.56	0.41
1:n:46:GLU:OE1	1:y:541:ARG:HB2	2.20	0.41
1:n:64:ARG:HA	1:n:64:ARG:HD3	1.91	0.41
1:p:257:THR:HG23	1:p:276:GLY:HA2	2.02	0.41
1:q:297:ALA:HA	1:q:300:LYS:HD3	2.02	0.41
1:r:352:ILE:CG1	1:r:353:GLN:H	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:454:TYR:HD1	1:r:457:GLN:HG2	1.85	0.41
1:s:297:ALA:HA	1:s:300:LYS:HD3	2.02	0.41
1:s:298:TYR:CD2	1:s:299:GLU:CG	3.00	0.41
1:t:352:ILE:CG1	1:t:353:GLN:H	2.32	0.41
1:v:350:ILE:O	1:v:350:ILE:HG22	2.21	0.41
1:w:138:LYS:NZ	1:w:175:GLU:OE2	2.35	0.41
1:w:257:THR:HG23	1:w:276:GLY:HA2	2.02	0.41
1:w:298:TYR:CD2	1:w:299:GLU:CG	2.99	0.41
1:x:351:VAL:O	1:x:352:ILE:C	2.64	0.41
1:y:109:PHE:HB3	1:y:115:TRP:CE2	2.56	0.41
1:y:366:VAL:O	1:y:367:LEU:C	2.62	0.41
1:z:294:ASP:HA	1:z:355:VAL:HG23	2.02	0.41
1:1:46:GLU:OE1	1:S:541:ARG:HB2	2.21	0.41
1:2:294:ASP:CA	1:2:355:VAL:CG2	2.96	0.41
1:3:209:GLU:CD	1:3:471:PHE:HE1	2.29	0.41
1:4:297:ALA:HA	1:4:300:LYS:HD3	2.02	0.41
1:B:109:PHE:HB3	1:B:115:TRP:CE2	2.56	0.41
1:D:109:PHE:HB3	1:D:115:TRP:CE2	2.56	0.41
1:E:96:ASP:HB2	1:s:426:THR:HG23	2.03	0.41
1:E:351:VAL:O	1:E:352:ILE:C	2.64	0.41
1:F:351:VAL:O	1:F:352:ILE:C	2.64	0.41
1:G:297:ALA:HA	1:G:300:LYS:HD3	2.02	0.41
1:G:474:ASN:C	1:G:476:ILE:H	2.28	0.41
1:I:109:PHE:HB3	1:I:115:TRP:CE2	2.56	0.41
1:K:209:GLU:CD	1:K:471:PHE:HE1	2.29	0.41
1:M:269:LYS:HB3	1:M:269:LYS:HE2	1.85	0.41
1:P:209:GLU:CD	1:P:471:PHE:HE1	2.29	0.41
1:Q:351:VAL:O	1:Q:352:ILE:C	2.64	0.41
1:Q:366:VAL:O	1:Q:367:LEU:C	2.62	0.41
1:S:350:ILE:O	1:S:350:ILE:HG22	2.21	0.41
1:V:352:ILE:CG1	1:V:353:GLN:H	2.32	0.41
1:W:352:ILE:CG1	1:W:353:GLN:H	2.32	0.41
1:X:294:ASP:HA	1:X:355:VAL:HG23	2.02	0.41
1:Y:366:VAL:O	1:Y:367:LEU:C	2.62	0.41
1:Z:541:ARG:HD2	1:Z:541:ARG:HA	1.91	0.41
1:a:453:VAL:HG11	1:p:451:GLN:OE1	2.21	0.41
1:c:298:TYR:HD2	1:c:299:GLU:CG	2.20	0.41
1:e:209:GLU:CD	1:e:471:PHE:HE1	2.29	0.41
1:f:297:ALA:HA	1:f:300:LYS:HD3	2.02	0.41
1:f:351:VAL:O	1:f:352:ILE:C	2.64	0.41
1:i:294:ASP:CA	1:i:355:VAL:CG2	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:454:TYR:HD1	1:i:457:GLN:HG2	1.86	0.41
1:j:209:GLU:CD	1:j:471:PHE:HE1	2.29	0.41
1:n:451:GLN:HB3	1:y:450:GLU:HG2	2.03	0.41
1:o:454:TYR:HD1	1:o:457:GLN:HG2	1.86	0.41
1:q:352:ILE:CG1	1:q:353:GLN:H	2.32	0.41
1:r:209:GLU:CD	1:r:471:PHE:HE1	2.29	0.41
1:r:474:ASN:C	1:r:476:ILE:H	2.28	0.41
1:t:351:VAL:O	1:t:352:ILE:C	2.64	0.41
1:u:370:LYS:HG3	1:u:371:ILE:N	2.34	0.41
1:v:147:ARG:NH1	1:v:208:LEU:CG	2.85	0.41
1:x:64:ARG:HA	1:x:64:ARG:HD3	1.91	0.41
1:x:257:THR:HG23	1:x:276:GLY:HA2	2.02	0.41
1:y:269:LYS:HB3	1:y:269:LYS:HE2	1.85	0.41
1:1:451:GLN:HB3	1:S:450:GLU:HG2	2.04	0.40
1:2:294:ASP:HA	1:2:355:VAL:HG23	2.02	0.40
1:5:297:ALA:HA	1:5:300:LYS:HD3	2.02	0.40
1:7:351:VAL:O	1:7:352:ILE:C	2.64	0.40
1:C:57:SER:HA	1:C:58:PRO:HD2	1.81	0.40
1:C:147:ARG:NH1	1:C:208:LEU:CG	2.85	0.40
1:C:454:TYR:HD1	1:C:457:GLN:HG2	1.86	0.40
1:I:352:ILE:CG1	1:I:353:GLN:H	2.32	0.40
1:K:109:PHE:HB3	1:K:115:TRP:CE2	2.56	0.40
1:K:257:THR:HG23	1:K:276:GLY:HA2	2.02	0.40
1:M:350:ILE:O	1:M:350:ILE:HG22	2.21	0.40
1:M:351:VAL:O	1:M:352:ILE:C	2.64	0.40
1:O:109:PHE:HB3	1:O:115:TRP:CE2	2.56	0.40
1:P:298:TYR:CD2	1:P:299:GLU:CG	3.00	0.40
1:Q:269:LYS:HB3	1:Q:269:LYS:HE2	1.85	0.40
1:Z:249:LEU:HD23	1:Z:249:LEU:HA	1.96	0.40
1:b:109:PHE:HB3	1:b:115:TRP:CE2	2.56	0.40
1:b:298:TYR:HD2	1:b:299:GLU:CG	2.20	0.40
1:c:297:ALA:HA	1:c:300:LYS:HD3	2.02	0.40
1:d:352:ILE:CG1	1:d:353:GLN:N	2.82	0.40
1:f:147:ARG:NH1	1:f:208:LEU:CG	2.85	0.40
1:f:366:VAL:O	1:f:367:LEU:C	2.62	0.40
1:h:350:ILE:O	1:h:350:ILE:HG22	2.21	0.40
1:j:351:VAL:O	1:j:352:ILE:C	2.64	0.40
1:k:297:ALA:HA	1:k:300:LYS:HD3	2.02	0.40
1:l:257:THR:HG23	1:l:276:GLY:HA2	2.02	0.40
1:m:449:ASN:ND2	1:m:452:ALA:HB3	2.33	0.40
1:n:209:GLU:CD	1:n:471:PHE:HE1	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:64:ARG:HD3	1:q:64:ARG:HA	1.91	0.40
1:u:109:PHE:HB3	1:u:115:TRP:CE2	2.56	0.40
1:u:257:THR:HG23	1:u:276:GLY:HA2	2.02	0.40
1:u:474:ASN:C	1:u:476:ILE:H	2.28	0.40
1:v:454:TYR:HD1	1:v:457:GLN:HG2	1.85	0.40
1:x:109:PHE:HB3	1:x:115:TRP:CE2	2.56	0.40
1:y:454:TYR:HD1	1:y:457:GLN:HG2	1.85	0.40
1:z:370:LYS:HG3	1:z:371:ILE:N	2.34	0.40
1:2:96:ASP:HB2	1:Y:426:THR:HG23	2.02	0.40
1:B:294:ASP:HA	1:B:355:VAL:HG23	2.02	0.40
1:C:109:PHE:HB3	1:C:115:TRP:CE2	2.56	0.40
1:C:294:ASP:CA	1:C:355:VAL:CG2	2.96	0.40
1:C:386:ASP:HA	1:C:387:PRO:HD3	1.95	0.40
1:D:269:LYS:HE2	1:D:269:LYS:HB3	1.85	0.40
1:H:351:VAL:O	1:H:352:ILE:C	2.64	0.40
1:I:209:GLU:CD	1:I:471:PHE:HE1	2.29	0.40
1:I:269:LYS:HB3	1:I:269:LYS:HE2	1.85	0.40
1:J:92:VAL:O	1:o:422:THR:OG1	2.24	0.40
1:J:257:THR:HG23	1:J:276:GLY:HA2	2.02	0.40
1:K:294:ASP:HA	1:K:355:VAL:HG23	2.02	0.40
1:K:350:ILE:O	1:K:350:ILE:HG22	2.21	0.40
1:L:269:LYS:HB3	1:L:269:LYS:HE2	1.85	0.40
1:L:350:ILE:O	1:L:350:ILE:HG22	2.21	0.40
1:L:366:VAL:O	1:L:367:LEU:C	2.62	0.40
1:M:294:ASP:HA	1:M:355:VAL:HG23	2.02	0.40
1:N:109:PHE:HB3	1:N:115:TRP:CE2	2.56	0.40
1:N:351:VAL:O	1:N:352:ILE:C	2.64	0.40
1:P:297:ALA:HA	1:P:300:LYS:HD3	2.02	0.40
1:R:109:PHE:HB3	1:R:115:TRP:CE2	2.56	0.40
1:S:109:PHE:HB3	1:S:115:TRP:CE2	2.56	0.40
1:T:92:VAL:O	1:j:422:THR:OG1	2.25	0.40
1:T:147:ARG:NH1	1:T:208:LEU:CG	2.85	0.40
1:T:474:ASN:C	1:T:476:ILE:H	2.28	0.40
1:V:366:VAL:O	1:V:367:LEU:C	2.62	0.40
1:W:209:GLU:CD	1:W:471:PHE:HE1	2.29	0.40
1:X:370:LYS:HG3	1:X:371:ILE:N	2.34	0.40
1:Y:209:GLU:CD	1:Y:471:PHE:HE1	2.29	0.40
1:b:204:GLN:NE2	1:r:228:VAL:HG11	2.37	0.40
1:b:257:THR:HG23	1:b:276:GLY:HA2	2.02	0.40
1:d:351:VAL:O	1:d:352:ILE:C	2.64	0.40
1:g:370:LYS:HG3	1:g:371:ILE:N	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:297:ALA:HA	1:h:300:LYS:HD3	2.02	0.40
1:i:297:ALA:HA	1:i:300:LYS:HD3	2.02	0.40
1:i:422:THR:HG22	1:j:53:TYR:CE2	2.57	0.40
1:j:257:THR:HG23	1:j:276:GLY:HA2	2.02	0.40
1:l:297:ALA:HA	1:l:300:LYS:HD3	2.02	0.40
1:m:209:GLU:CD	1:m:471:PHE:HE1	2.29	0.40
1:n:147:ARG:NH1	1:n:208:LEU:CG	2.85	0.40
1:n:352:ILE:CG1	1:n:353:GLN:H	2.32	0.40
1:o:209:GLU:CD	1:o:471:PHE:HE1	2.29	0.40
1:p:352:ILE:CG1	1:p:353:GLN:N	2.82	0.40
1:u:269:LYS:HB3	1:u:269:LYS:HE2	1.85	0.40
1:x:449:ASN:ND2	1:x:452:ALA:HB3	2.34	0.40
1:y:351:VAL:O	1:y:352:ILE:C	2.64	0.40
1:z:297:ALA:HA	1:z:300:LYS:HD3	2.02	0.40
1:4:541:ARG:HB2	1:D:46:GLU:CD	2.45	0.40
1:5:249:LEU:HD23	1:5:249:LEU:HA	1.96	0.40
1:6:453:VAL:HG11	1:L:451:GLN:OE1	2.22	0.40
1:7:386:ASP:HA	1:7:387:PRO:HD3	1.95	0.40
1:9:450:GLU:CG	1:E:450:GLU:OE1	2.69	0.40
1:E:147:ARG:NH1	1:E:208:LEU:CG	2.85	0.40
1:E:149:THR:OG1	1:E:150:PRO:CD	2.61	0.40
1:E:350:ILE:O	1:E:350:ILE:HG22	2.21	0.40
1:F:257:THR:HG23	1:F:276:GLY:HA2	2.02	0.40
1:G:352:ILE:CG1	1:G:353:GLN:H	2.32	0.40
1:G:352:ILE:CG1	1:G:353:GLN:N	2.81	0.40
1:J:351:VAL:O	1:J:352:ILE:C	2.64	0.40
1:K:351:VAL:O	1:K:352:ILE:C	2.64	0.40
1:K:454:TYR:HD1	1:K:457:GLN:HG2	1.86	0.40
1:N:147:ARG:NH1	1:N:208:LEU:CG	2.85	0.40
1:N:209:GLU:CD	1:N:471:PHE:HE1	2.29	0.40
1:Q:454:TYR:HD1	1:Q:457:GLN:HG2	1.85	0.40
1:R:450:GLU:OE1	1:T:450:GLU:CG	2.69	0.40
1:R:453:VAL:HG11	1:v:451:GLN:OE1	2.21	0.40
1:S:147:ARG:NH1	1:S:208:LEU:CG	2.85	0.40
1:S:257:THR:HG23	1:S:276:GLY:HA2	2.02	0.40
1:T:294:ASP:CA	1:T:355:VAL:CG2	2.96	0.40
1:V:109:PHE:HB3	1:V:115:TRP:CE2	2.56	0.40
1:X:64:ARG:HA	1:X:64:ARG:HD3	1.91	0.40
1:X:209:GLU:CD	1:X:471:PHE:HE1	2.29	0.40
1:X:294:ASP:CA	1:X:355:VAL:CG2	2.96	0.40
1:Z:269:LYS:HB3	1:Z:269:LYS:HE2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:257:THR:HG23	1:a:276:GLY:HA2	2.02	0.40
1:a:298:TYR:CD2	1:a:299:GLU:CG	2.99	0.40
1:b:351:VAL:O	1:b:352:ILE:C	2.64	0.40
1:c:147:ARG:NH1	1:c:208:LEU:CG	2.85	0.40
1:c:426:THR:HG23	1:u:96:ASP:HB2	2.04	0.40
1:f:64:ARG:HA	1:f:64:ARG:HD3	1.91	0.40
1:g:109:PHE:HB3	1:g:115:TRP:CE2	2.56	0.40
1:i:147:ARG:NH1	1:i:208:LEU:CG	2.85	0.40
1:i:350:ILE:O	1:i:350:ILE:HG22	2.21	0.40
1:i:450:GLU:HG2	1:j:451:GLN:HB3	2.03	0.40
1:j:294:ASP:HA	1:j:355:VAL:HG23	2.02	0.40
1:m:64:ARG:HA	1:m:64:ARG:HD3	1.91	0.40
1:n:109:PHE:HB3	1:n:115:TRP:CE2	2.56	0.40
1:n:257:THR:HG23	1:n:276:GLY:HA2	2.02	0.40
1:n:450:GLU:OE1	1:y:450:GLU:CG	2.70	0.40
1:o:269:LYS:HE2	1:o:269:LYS:HB3	1.85	0.40
1:o:294:ASP:HA	1:o:355:VAL:HG23	2.02	0.40
1:r:294:ASP:CA	1:r:355:VAL:CG2	2.96	0.40
1:s:454:TYR:HD1	1:s:457:GLN:HG2	1.86	0.40
1:v:257:THR:HG23	1:v:276:GLY:HA2	2.02	0.40
1:v:352:ILE:CG1	1:v:353:GLN:H	2.32	0.40
1:1:209:GLU:CD	1:1:471:PHE:HE1	2.29	0.40
1:2:269:LYS:HB3	1:2:269:LYS:HE2	1.85	0.40
1:2:541:ARG:HB2	1:F:46:GLU:CD	2.46	0.40
1:4:69:ASP:HB3	1:4:87:PHE:CZ	2.57	0.40
1:6:209:GLU:CD	1:6:471:PHE:HE1	2.29	0.40
1:6:450:GLU:HG3	1:L:450:GLU:OE1	2.20	0.40
1:6:453:VAL:O	1:6:453:VAL:CG1	2.70	0.40
1:8:109:PHE:HB3	1:8:115:TRP:CE2	2.56	0.40
1:8:298:TYR:CD2	1:8:299:GLU:CG	3.00	0.40
1:8:351:VAL:O	1:8:352:ILE:C	2.64	0.40
1:8:450:GLU:HG2	1:K:451:GLN:HB3	2.03	0.40
1:9:422:THR:HG22	1:E:53:TYR:CE2	2.57	0.40
1:A:147:ARG:NH1	1:A:208:LEU:HG	2.37	0.40
1:A:366:VAL:O	1:A:367:LEU:C	2.62	0.40
1:B:450:GLU:HG3	1:x:450:GLU:OE1	2.22	0.40
1:D:257:THR:HG23	1:D:276:GLY:HA2	2.02	0.40
1:E:147:ARG:NH1	1:E:208:LEU:HG	2.37	0.40
1:J:474:ASN:C	1:J:476:ILE:H	2.28	0.40
1:L:297:ALA:HA	1:L:300:LYS:HD3	2.02	0.40
1:M:298:TYR:CD2	1:M:299:GLU:CG	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:352:ILE:CG1	1:N:353:GLN:N	2.82	0.40
1:Q:209:GLU:CD	1:Q:471:PHE:HE1	2.29	0.40
1:R:474:ASN:C	1:R:476:ILE:H	2.28	0.40
1:T:147:ARG:NH1	1:T:208:LEU:HG	2.37	0.40
1:W:453:VAL:O	1:W:453:VAL:CG1	2.70	0.40
1:Y:351:VAL:O	1:Y:352:ILE:C	2.64	0.40
1:Z:109:PHE:HB3	1:Z:115:TRP:CE2	2.56	0.40
1:a:297:ALA:HA	1:a:300:LYS:HD3	2.02	0.40
1:b:147:ARG:NH1	1:b:208:LEU:HG	2.37	0.40
1:b:350:ILE:O	1:b:350:ILE:HG22	2.21	0.40
1:d:209:GLU:CD	1:d:471:PHE:HE1	2.29	0.40
1:g:64:ARG:HA	1:g:64:ARG:HD3	1.91	0.40
1:h:209:GLU:CD	1:h:471:PHE:HE1	2.29	0.40
1:k:209:GLU:CD	1:k:471:PHE:HE1	2.29	0.40
1:k:350:ILE:O	1:k:350:ILE:HG22	2.21	0.40
1:l:352:ILE:CG1	1:l:353:GLN:N	2.82	0.40
1:m:351:VAL:O	1:m:352:ILE:C	2.64	0.40
1:n:451:GLN:OE1	1:y:453:VAL:HG11	2.21	0.40
1:q:109:PHE:HB3	1:q:115:TRP:CE2	2.56	0.40
1:v:297:ALA:HA	1:v:300:LYS:HD3	2.02	0.40
1:w:109:PHE:HB3	1:w:115:TRP:CE2	2.56	0.40
1:w:453:VAL:O	1:w:453:VAL:CG1	2.70	0.40
1:w:454:TYR:HD1	1:w:457:GLN:HG2	1.85	0.40
1:z:269:LYS:HB3	1:z:269:LYS:HE2	1.85	0.40
1:2:69:ASP:HB3	1:2:87:PHE:CZ	2.57	0.40
1:4:147:ARG:NH1	1:4:208:LEU:HG	2.37	0.40
1:4:209:GLU:CD	1:4:471:PHE:HE1	2.29	0.40
1:4:298:TYR:CD2	1:4:299:GLU:CG	3.00	0.40
1:4:351:VAL:O	1:4:352:ILE:C	2.64	0.40
1:5:453:VAL:O	1:5:453:VAL:CG1	2.70	0.40
1:8:147:ARG:NH1	1:8:208:LEU:CG	2.85	0.40
1:8:147:ARG:NH1	1:8:208:LEU:HG	2.37	0.40
1:8:541:ARG:HD2	1:8:541:ARG:HA	1.91	0.40
1:9:386:ASP:HA	1:9:387:PRO:HD3	1.95	0.40
1:9:453:VAL:O	1:9:453:VAL:CG1	2.70	0.40
1:A:209:GLU:CD	1:A:471:PHE:HE1	2.29	0.40
1:B:147:ARG:NH1	1:B:208:LEU:HG	2.37	0.40
1:C:350:ILE:O	1:C:350:ILE:HG22	2.21	0.40
1:E:474:ASN:C	1:E:476:ILE:H	2.28	0.40
1:F:453:VAL:O	1:F:453:VAL:CG1	2.70	0.40
1:H:209:GLU:CD	1:H:471:PHE:HE1	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:450:GLU:CG	1:s:450:GLU:OE1	2.69	0.40
1:N:57:SER:N	1:w:57:SER:OG	2.54	0.40
1:Q:69:ASP:HB3	1:Q:87:PHE:CZ	2.57	0.40
1:Q:147:ARG:NH1	1:Q:208:LEU:CG	2.85	0.40
1:S:69:ASP:HB3	1:S:87:PHE:CZ	2.57	0.40
1:V:69:ASP:HB3	1:V:87:PHE:CZ	2.57	0.40
1:V:297:ALA:HA	1:V:300:LYS:HD3	2.02	0.40
1:Y:269:LYS:HB3	1:Y:269:LYS:HE2	1.85	0.40
1:Y:474:ASN:C	1:Y:476:ILE:H	2.28	0.40
1:Z:350:ILE:O	1:Z:350:ILE:HG22	2.21	0.40
1:Z:450:GLU:OE1	1:m:450:GLU:HG3	2.21	0.40
1:a:298:TYR:HD2	1:a:299:GLU:CG	2.20	0.40
1:a:352:ILE:CG1	1:a:353:GLN:N	2.81	0.40
1:b:147:ARG:NH1	1:b:208:LEU:CG	2.85	0.40
1:b:352:ILE:CG1	1:b:353:GLN:N	2.82	0.40
1:b:474:ASN:C	1:b:476:ILE:H	2.28	0.40
1:c:294:ASP:CA	1:c:355:VAL:CG2	2.96	0.40
1:d:147:ARG:NH1	1:d:208:LEU:HG	2.37	0.40
1:d:541:ARG:HD2	1:d:541:ARG:HA	1.91	0.40
1:f:147:ARG:NH1	1:f:208:LEU:HG	2.37	0.40
1:f:209:GLU:CD	1:f:471:PHE:HE1	2.29	0.40
1:g:69:ASP:HB3	1:g:87:PHE:CZ	2.57	0.40
1:g:449:ASN:ND2	1:g:452:ALA:HB3	2.34	0.40
1:h:147:ARG:NH1	1:h:208:LEU:CG	2.85	0.40
1:h:370:LYS:HG3	1:h:371:ILE:N	2.34	0.40
1:i:453:VAL:O	1:i:453:VAL:CG1	2.70	0.40
1:l:69:ASP:HB3	1:l:87:PHE:CZ	2.57	0.40
1:l:147:ARG:NH1	1:l:208:LEU:CG	2.85	0.40
1:l:269:LYS:HE2	1:l:269:LYS:HB3	1.85	0.40
1:l:294:ASP:HA	1:l:355:VAL:HG23	2.02	0.40
1:l:453:VAL:O	1:l:453:VAL:CG1	2.70	0.40
1:p:69:ASP:HB3	1:p:87:PHE:CZ	2.57	0.40
1:q:350:ILE:O	1:q:350:ILE:HG22	2.21	0.40
1:r:69:ASP:HB3	1:r:87:PHE:CZ	2.57	0.40
1:r:147:ARG:NH1	1:r:208:LEU:HG	2.37	0.40
1:s:351:VAL:O	1:s:352:ILE:C	2.64	0.40
1:t:249:LEU:HD23	1:t:249:LEU:HA	1.96	0.40
1:u:209:GLU:CD	1:u:471:PHE:HE1	2.29	0.40
1:v:147:ARG:NH1	1:v:208:LEU:HG	2.37	0.40
1:w:57:SER:HA	1:w:58:PRO:HD2	1.81	0.40
1:y:350:ILE:O	1:y:350:ILE:HG22	2.21	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	1	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	2	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	3	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	4	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	5	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	6	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	7	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	8	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	9	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	A	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	B	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	C	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	D	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	E	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	F	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	G	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	H	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	I	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	J	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	K	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	L	428/543 (79%)	387 (90%)	41 (10%)	0	100	100
1	M	428/543 (79%)	388 (91%)	40 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	N	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	O	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	P	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	Q	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	R	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	S	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	T	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	V	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	W	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	X	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	Y	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	Z	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	a	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	b	428/543 (79%)	387 (90%)	41 (10%)	0	100	100
1	c	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	d	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	e	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	f	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	g	428/543 (79%)	387 (90%)	41 (10%)	0	100	100
1	h	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	i	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	j	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	k	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	l	428/543 (79%)	387 (90%)	41 (10%)	0	100	100
1	m	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	n	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	o	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	p	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	q	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	r	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	s	428/543 (79%)	388 (91%)	40 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	t	428/543 (79%)	387 (90%)	41 (10%)	0	100	100
1	u	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	v	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	w	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	x	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	y	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
1	z	428/543 (79%)	388 (91%)	40 (9%)	0	100	100
All	All	25680/32580 (79%)	23275 (91%)	2405 (9%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	396/472 (84%)	396 (100%)	0	100	100
1	2	396/472 (84%)	396 (100%)	0	100	100
1	3	396/472 (84%)	396 (100%)	0	100	100
1	4	396/472 (84%)	396 (100%)	0	100	100
1	5	396/472 (84%)	396 (100%)	0	100	100
1	6	396/472 (84%)	395 (100%)	1 (0%)	86	93
1	7	396/472 (84%)	396 (100%)	0	100	100
1	8	396/472 (84%)	396 (100%)	0	100	100
1	9	396/472 (84%)	396 (100%)	0	100	100
1	A	396/472 (84%)	396 (100%)	0	100	100
1	B	396/472 (84%)	396 (100%)	0	100	100
1	C	396/472 (84%)	396 (100%)	0	100	100
1	D	396/472 (84%)	396 (100%)	0	100	100
1	E	396/472 (84%)	395 (100%)	1 (0%)	86	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	396/472 (84%)	396 (100%)	0	100	100
1	G	396/472 (84%)	396 (100%)	0	100	100
1	H	396/472 (84%)	396 (100%)	0	100	100
1	I	396/472 (84%)	396 (100%)	0	100	100
1	J	396/472 (84%)	396 (100%)	0	100	100
1	K	396/472 (84%)	396 (100%)	0	100	100
1	L	396/472 (84%)	396 (100%)	0	100	100
1	M	396/472 (84%)	396 (100%)	0	100	100
1	N	396/472 (84%)	396 (100%)	0	100	100
1	O	396/472 (84%)	396 (100%)	0	100	100
1	P	396/472 (84%)	396 (100%)	0	100	100
1	Q	396/472 (84%)	396 (100%)	0	100	100
1	R	396/472 (84%)	396 (100%)	0	100	100
1	S	396/472 (84%)	396 (100%)	0	100	100
1	T	396/472 (84%)	396 (100%)	0	100	100
1	V	396/472 (84%)	396 (100%)	0	100	100
1	W	396/472 (84%)	396 (100%)	0	100	100
1	X	396/472 (84%)	395 (100%)	1 (0%)	86	93
1	Y	396/472 (84%)	396 (100%)	0	100	100
1	Z	396/472 (84%)	396 (100%)	0	100	100
1	a	396/472 (84%)	396 (100%)	0	100	100
1	b	396/472 (84%)	396 (100%)	0	100	100
1	c	396/472 (84%)	396 (100%)	0	100	100
1	d	396/472 (84%)	396 (100%)	0	100	100
1	e	396/472 (84%)	396 (100%)	0	100	100
1	f	396/472 (84%)	396 (100%)	0	100	100
1	g	396/472 (84%)	396 (100%)	0	100	100
1	h	396/472 (84%)	396 (100%)	0	100	100
1	i	396/472 (84%)	396 (100%)	0	100	100
1	j	396/472 (84%)	396 (100%)	0	100	100
1	k	396/472 (84%)	396 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	l	396/472 (84%)	396 (100%)	0	100	100
1	m	396/472 (84%)	396 (100%)	0	100	100
1	n	396/472 (84%)	396 (100%)	0	100	100
1	o	396/472 (84%)	396 (100%)	0	100	100
1	p	396/472 (84%)	396 (100%)	0	100	100
1	q	396/472 (84%)	396 (100%)	0	100	100
1	r	396/472 (84%)	396 (100%)	0	100	100
1	s	396/472 (84%)	396 (100%)	0	100	100
1	t	396/472 (84%)	396 (100%)	0	100	100
1	u	396/472 (84%)	396 (100%)	0	100	100
1	v	396/472 (84%)	396 (100%)	0	100	100
1	w	396/472 (84%)	396 (100%)	0	100	100
1	x	396/472 (84%)	396 (100%)	0	100	100
1	y	396/472 (84%)	396 (100%)	0	100	100
1	z	396/472 (84%)	396 (100%)	0	100	100
All	All	23760/28320 (84%)	23757 (100%)	3 (0%)	100	100

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	6	473	GLU
1	E	473	GLU
1	X	473	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (173) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	239	ASN
1	1	372	ASN
1	1	475	GLN
1	2	118	GLN
1	2	372	ASN
1	2	475	GLN
1	3	118	GLN
1	3	239	ASN
1	3	475	GLN

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Mol	Chain	Res	Type
1	4	118	GLN
1	4	239	ASN
1	4	475	GLN
1	5	239	ASN
1	5	475	GLN
1	6	118	GLN
1	6	372	ASN
1	6	475	GLN
1	7	118	GLN
1	8	118	GLN
1	8	239	ASN
1	8	475	GLN
1	9	118	GLN
1	9	239	ASN
1	9	475	GLN
1	A	118	GLN
1	A	475	GLN
1	B	118	GLN
1	B	239	ASN
1	B	372	ASN
1	B	475	GLN
1	C	118	GLN
1	C	239	ASN
1	C	475	GLN
1	D	118	GLN
1	D	239	ASN
1	D	372	ASN
1	D	475	GLN
1	E	118	GLN
1	E	372	ASN
1	E	449	ASN
1	G	118	GLN
1	G	239	ASN
1	G	475	GLN
1	H	118	GLN
1	H	239	ASN
1	H	372	ASN
1	I	239	ASN
1	I	372	ASN
1	I	475	GLN
1	J	118	GLN
1	J	475	GLN

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Mol	Chain	Res	Type
1	K	118	GLN
1	K	239	ASN
1	K	372	ASN
1	K	475	GLN
1	L	239	ASN
1	M	239	ASN
1	M	475	GLN
1	N	118	GLN
1	N	239	ASN
1	N	475	GLN
1	O	118	GLN
1	O	239	ASN
1	O	372	ASN
1	O	475	GLN
1	P	239	ASN
1	P	475	GLN
1	Q	118	GLN
1	Q	239	ASN
1	Q	372	ASN
1	Q	475	GLN
1	R	475	GLN
1	S	118	GLN
1	S	372	ASN
1	T	118	GLN
1	T	239	ASN
1	T	475	GLN
1	V	118	GLN
1	V	239	ASN
1	V	475	GLN
1	W	118	GLN
1	W	239	ASN
1	W	449	ASN
1	W	475	GLN
1	X	118	GLN
1	X	239	ASN
1	X	372	ASN
1	X	475	GLN
1	Y	239	ASN
1	Y	475	GLN
1	Z	239	ASN
1	a	118	GLN
1	a	239	ASN

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Mol	Chain	Res	Type
1	a	372	ASN
1	a	475	GLN
1	b	118	GLN
1	b	372	ASN
1	b	475	GLN
1	c	118	GLN
1	c	239	ASN
1	c	372	ASN
1	c	475	GLN
1	d	118	GLN
1	d	239	ASN
1	d	372	ASN
1	d	475	GLN
1	e	118	GLN
1	e	239	ASN
1	e	475	GLN
1	f	118	GLN
1	f	239	ASN
1	f	475	GLN
1	g	118	GLN
1	g	475	GLN
1	h	118	GLN
1	h	239	ASN
1	h	372	ASN
1	h	475	GLN
1	i	239	ASN
1	i	372	ASN
1	j	118	GLN
1	j	475	GLN
1	k	118	GLN
1	k	239	ASN
1	k	475	GLN
1	l	118	GLN
1	l	239	ASN
1	l	372	ASN
1	l	449	ASN
1	l	475	GLN
1	m	372	ASN
1	m	475	GLN
1	n	118	GLN
1	n	475	GLN
1	o	239	ASN

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Mol	Chain	Res	Type
1	o	372	ASN
1	o	475	GLN
1	p	118	GLN
1	p	372	ASN
1	p	475	GLN
1	q	118	GLN
1	q	372	ASN
1	q	475	GLN
1	r	118	GLN
1	r	239	ASN
1	r	372	ASN
1	r	475	GLN
1	s	118	GLN
1	s	239	ASN
1	s	372	ASN
1	s	475	GLN
1	t	118	GLN
1	t	239	ASN
1	t	372	ASN
1	t	475	GLN
1	u	118	GLN
1	u	239	ASN
1	v	239	ASN
1	v	475	GLN
1	w	118	GLN
1	w	239	ASN
1	w	475	GLN
1	x	118	GLN
1	x	239	ASN
1	x	475	GLN
1	y	118	GLN
1	y	239	ASN
1	y	372	ASN
1	y	449	ASN
1	y	475	GLN
1	z	118	GLN
1	z	239	ASN
1	z	475	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 12 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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.

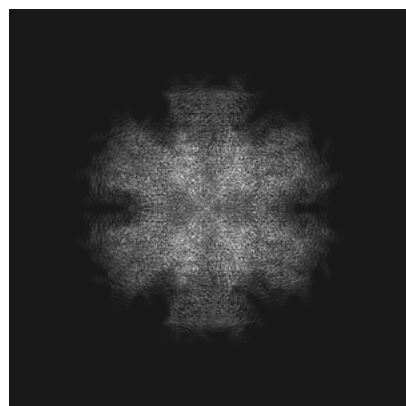
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-55303. These allow visual inspection of the internal detail of the map and identification of artifacts.

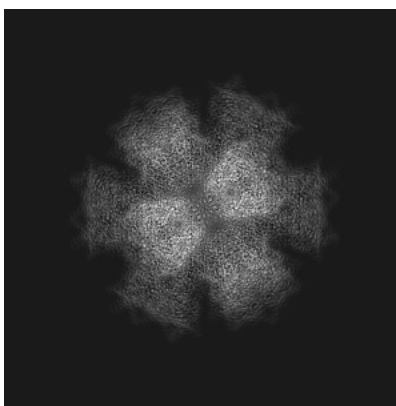
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

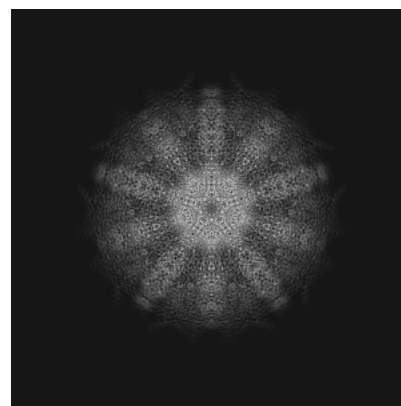
6.1.1 Primary map



X

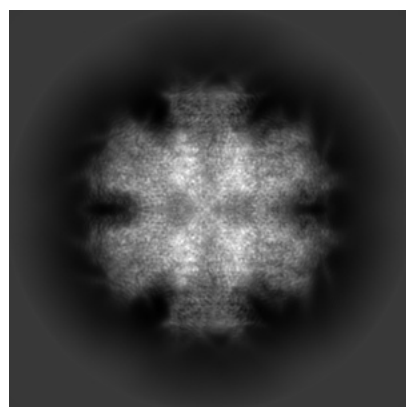


Y

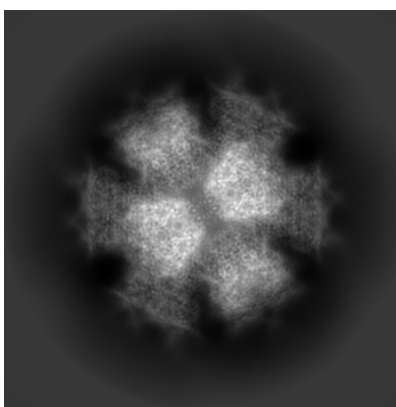


Z

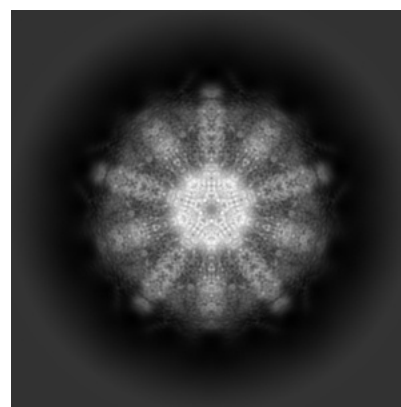
6.1.2 Raw map



X



Y

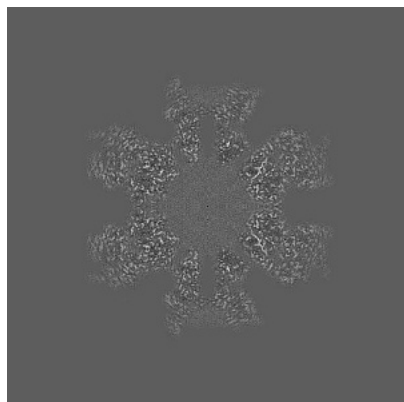


Z

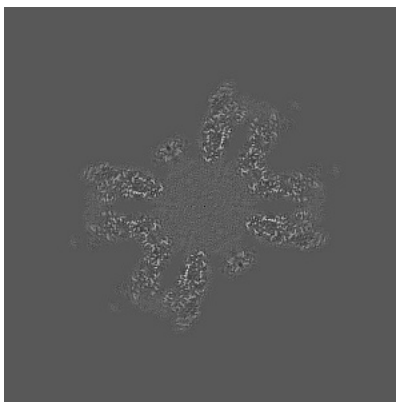
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

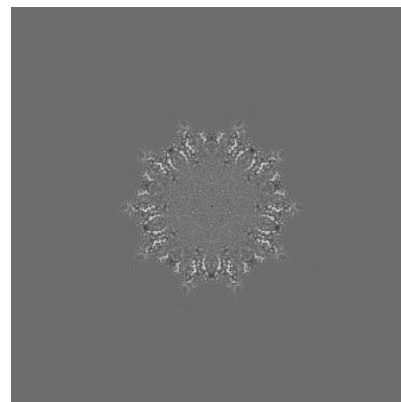
6.2.1 Primary map



X Index: 200

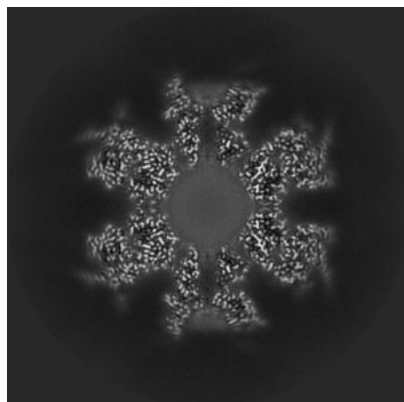


Y Index: 200

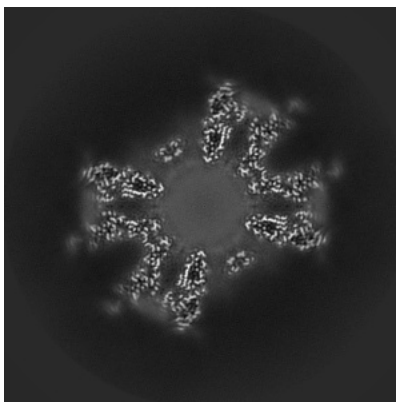


Z Index: 200

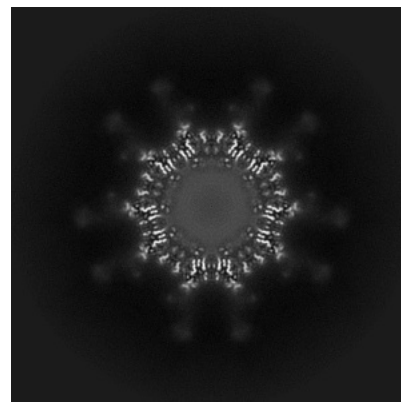
6.2.2 Raw map



X Index: 200



Y Index: 200

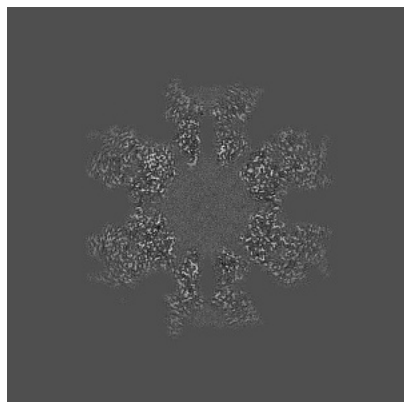


Z Index: 200

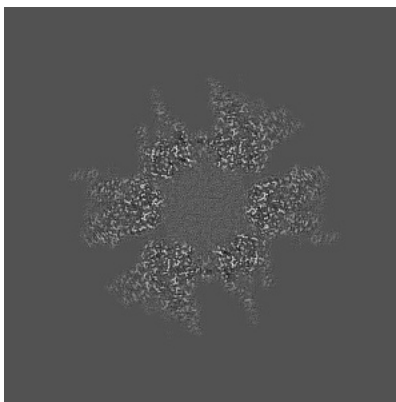
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

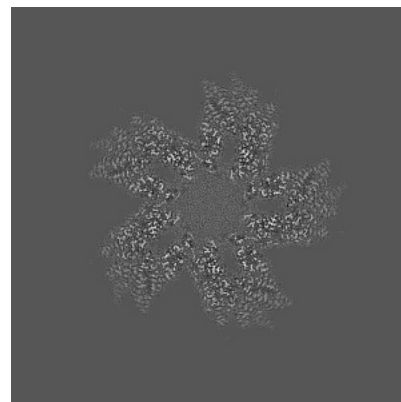
6.3.1 Primary map



X Index: 199

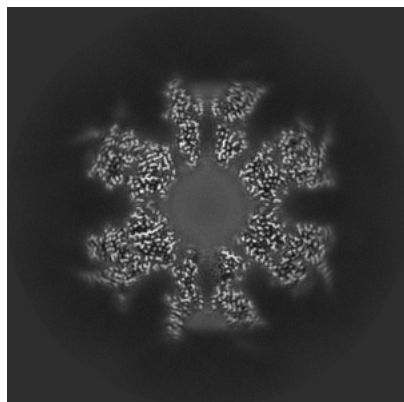


Y Index: 184

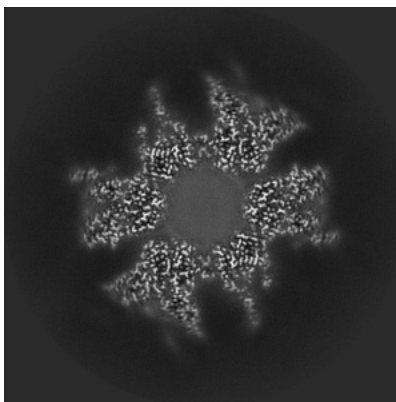


Z Index: 227

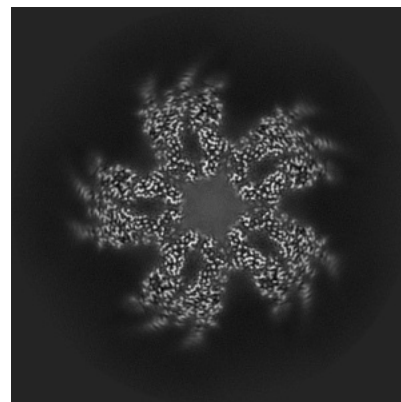
6.3.2 Raw map



X Index: 198



Y Index: 184

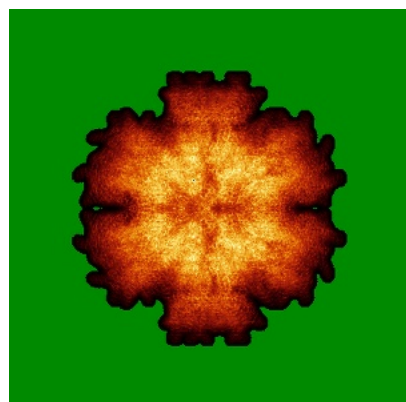


Z Index: 169

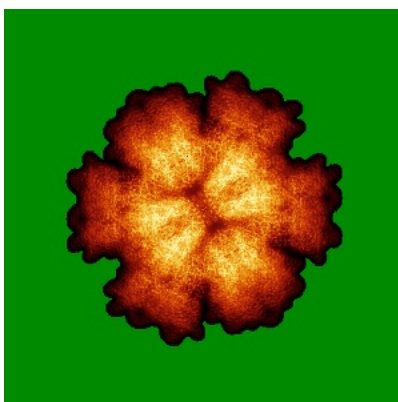
The images above show the largest variance slices of the map in three orthogonal directions.

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

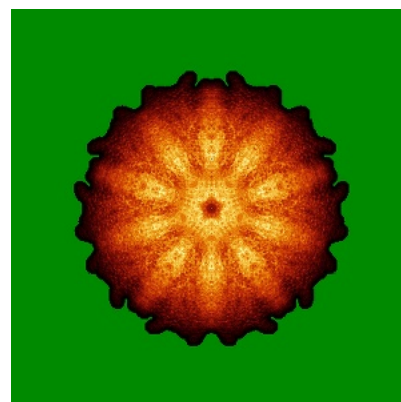
6.4.1 Primary map



X

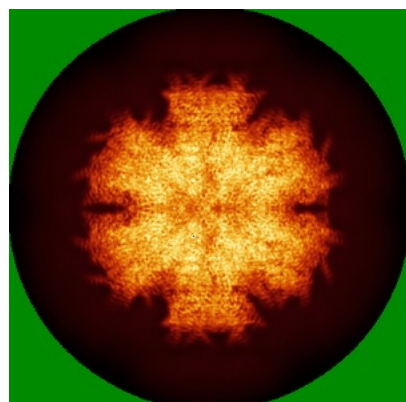


Y

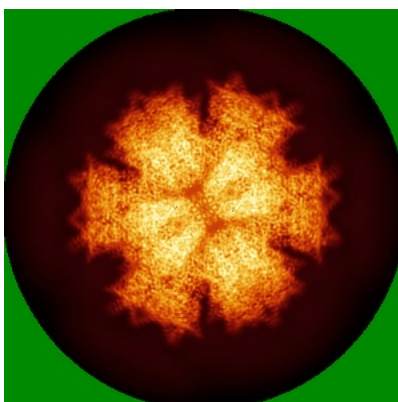


Z

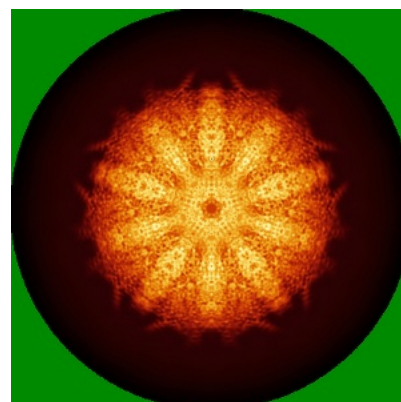
6.4.2 Raw map



X



Y

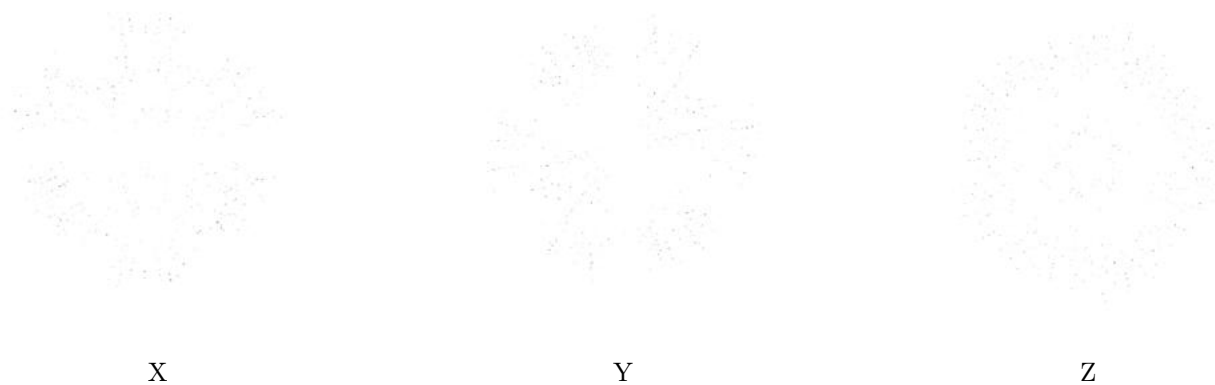


Z

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.

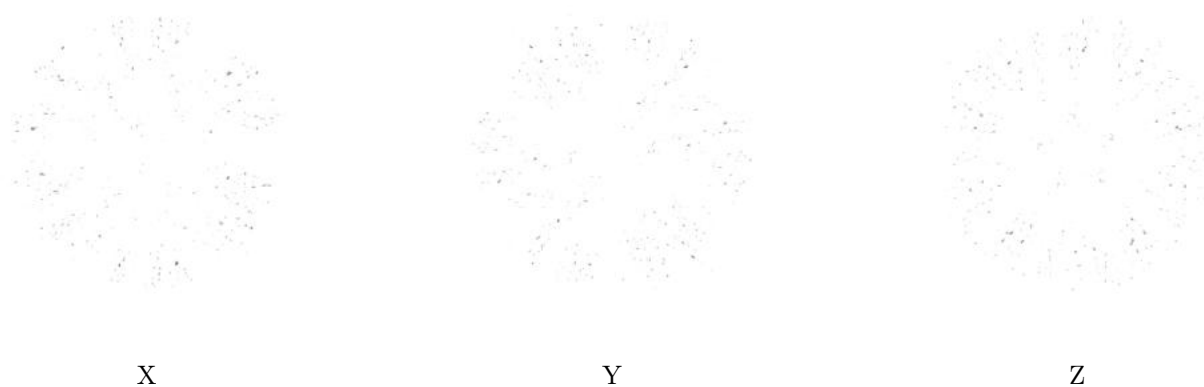
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.2. 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.

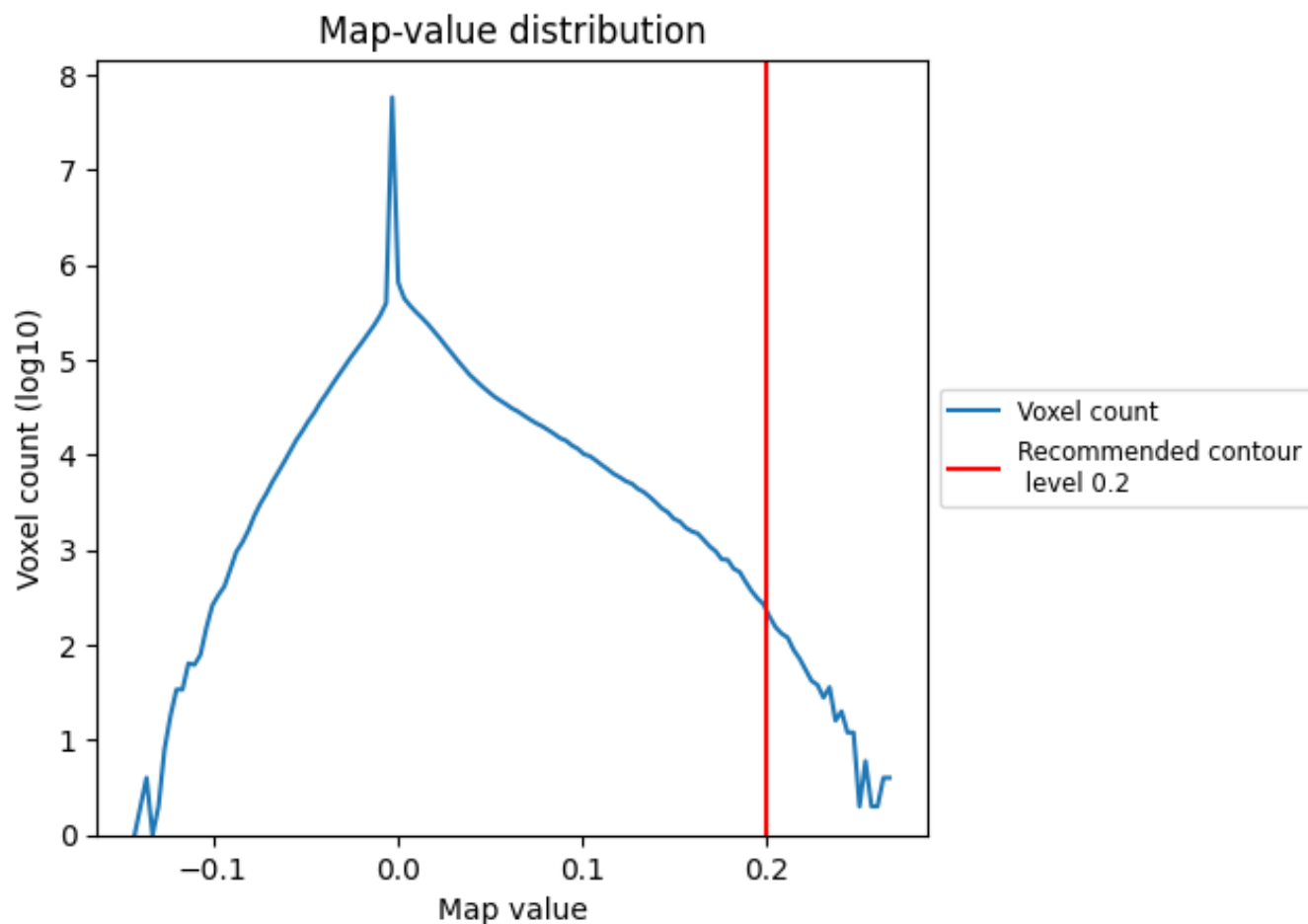
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

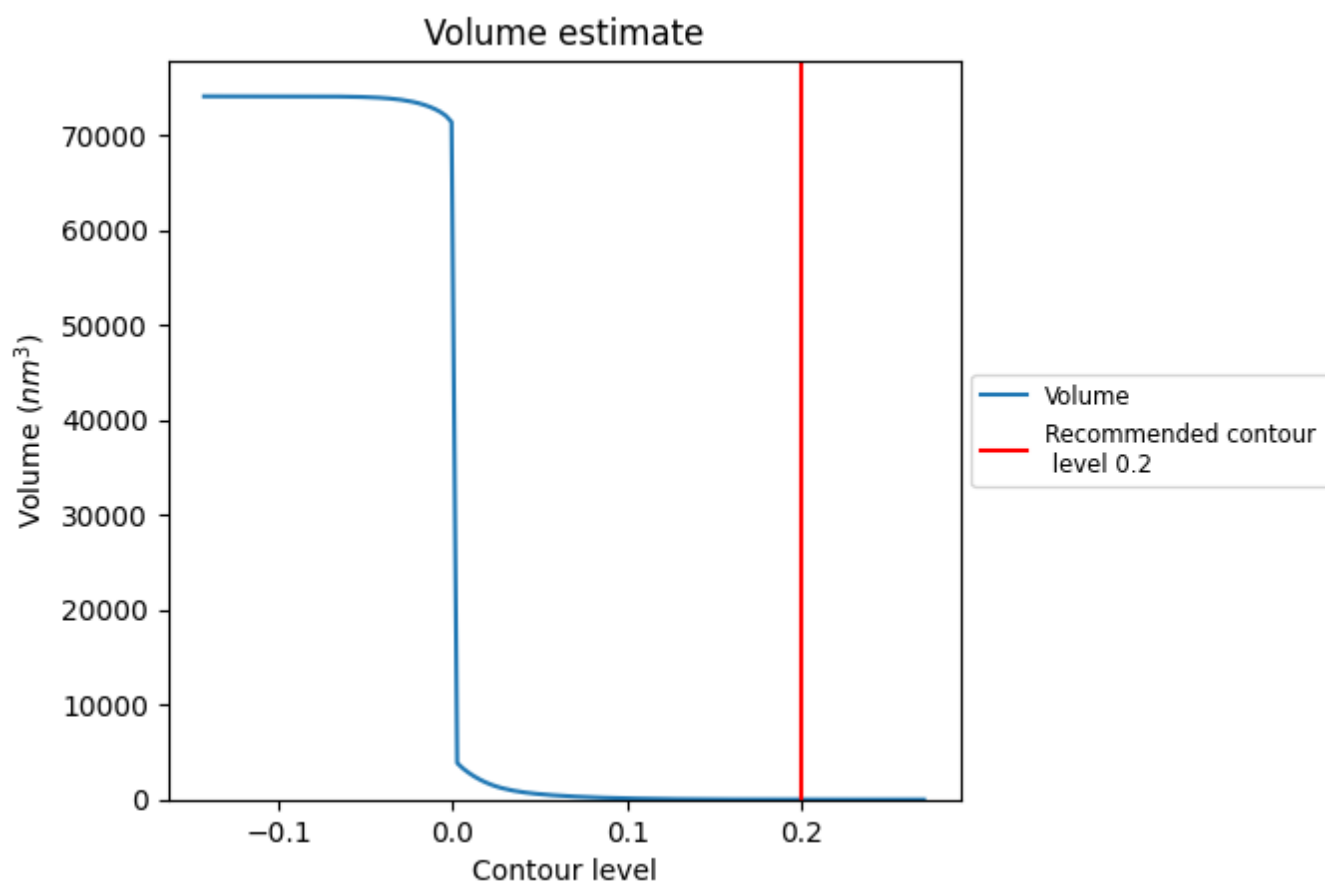
This section contains the results of statistical analysis of the map.

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.

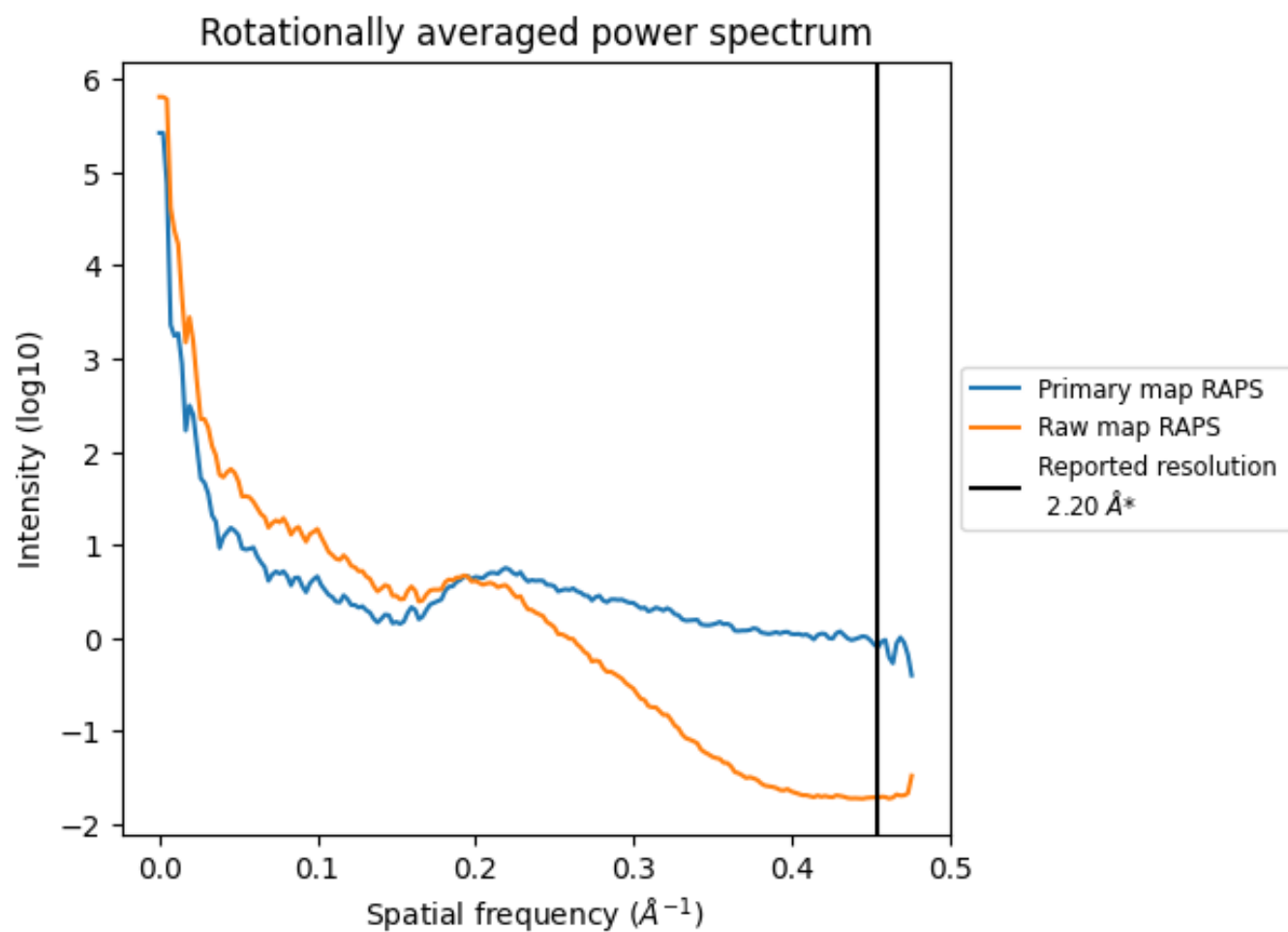
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1 nm^3 ; this corresponds to an approximate mass of 1 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 ⓘ

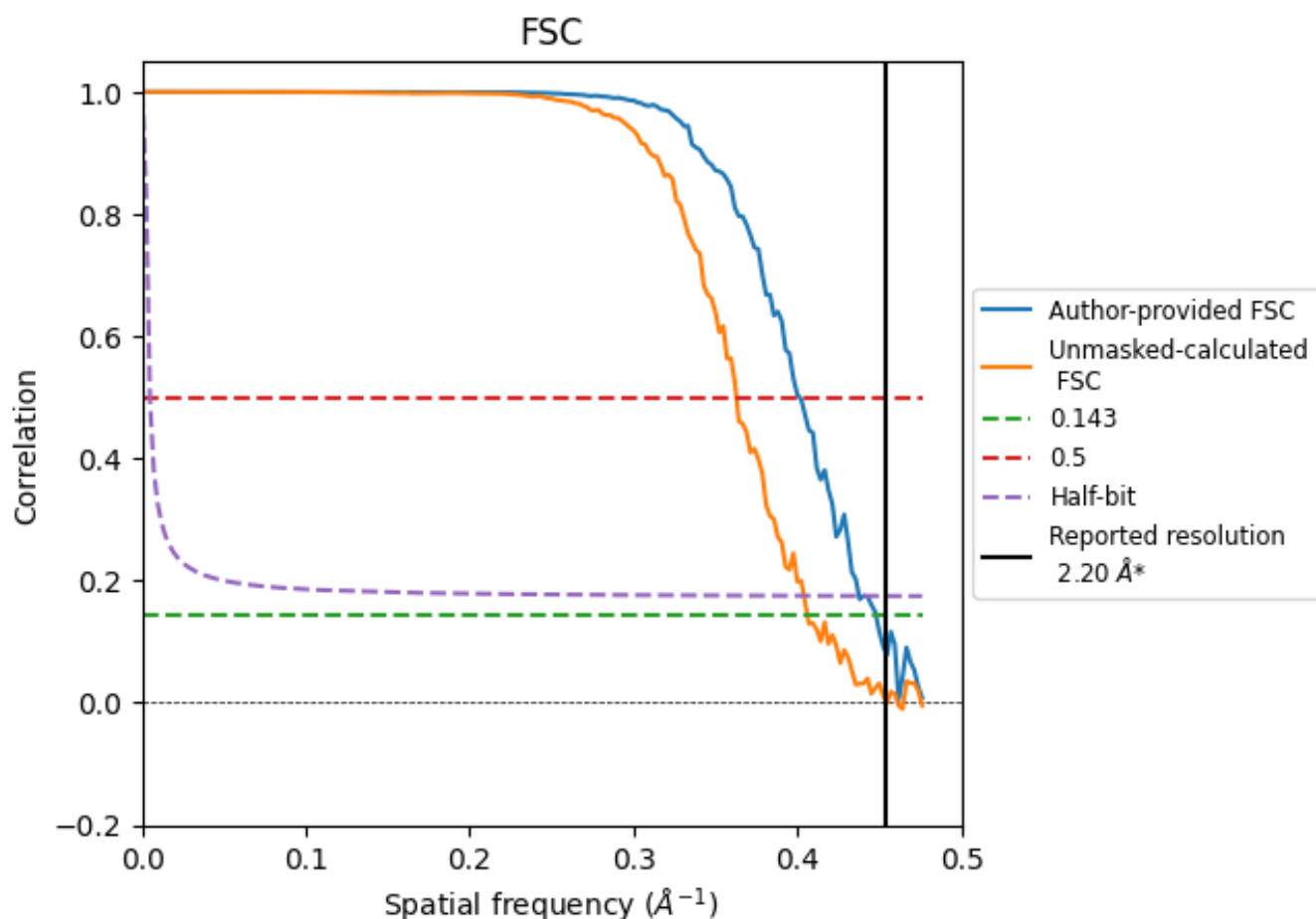


*Reported resolution corresponds to spatial frequency of 0.455 Å⁻¹

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 0.455 Å⁻¹

8.2 Resolution estimates [i](#)

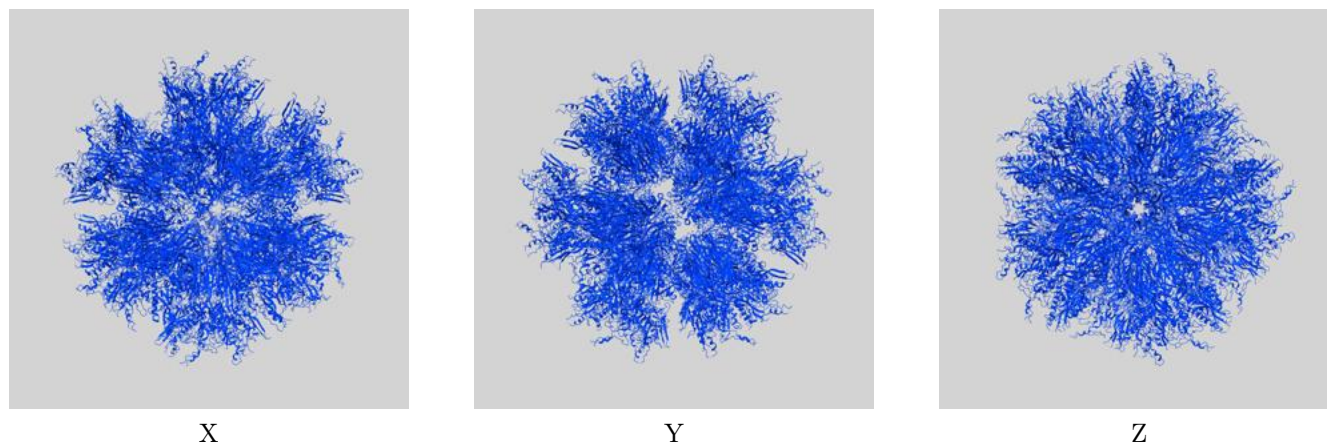
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.20	-	-
Author-provided FSC curve	2.23	2.49	2.28
Unmasked-calculated*	2.46	2.76	2.48

*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 2.46 differs from the reported value 2.2 by more than 10 %

9 Map-model fit [i](#)

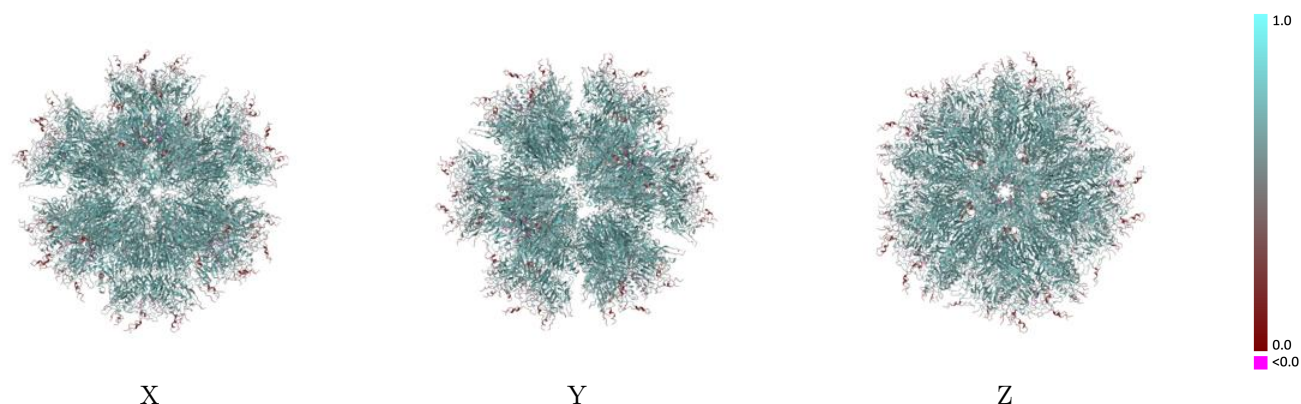
This section contains information regarding the fit between EMDB map EMD-55303 and PDB model 9SWA. Per-residue inclusion information can be found in section [3](#) on page [27](#).

9.1 Map-model overlay [i](#)



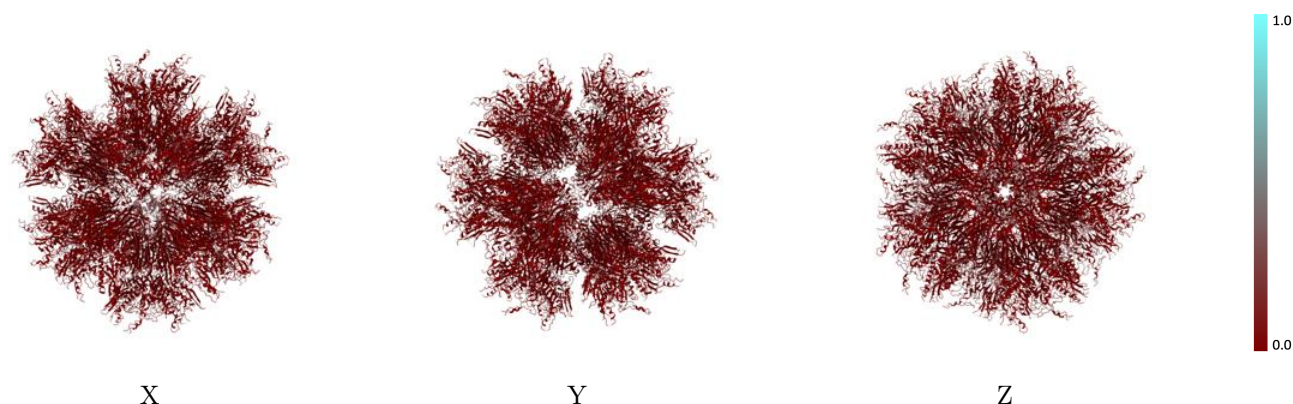
The images above show the 3D surface view of the map at the recommended contour level 0.2 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



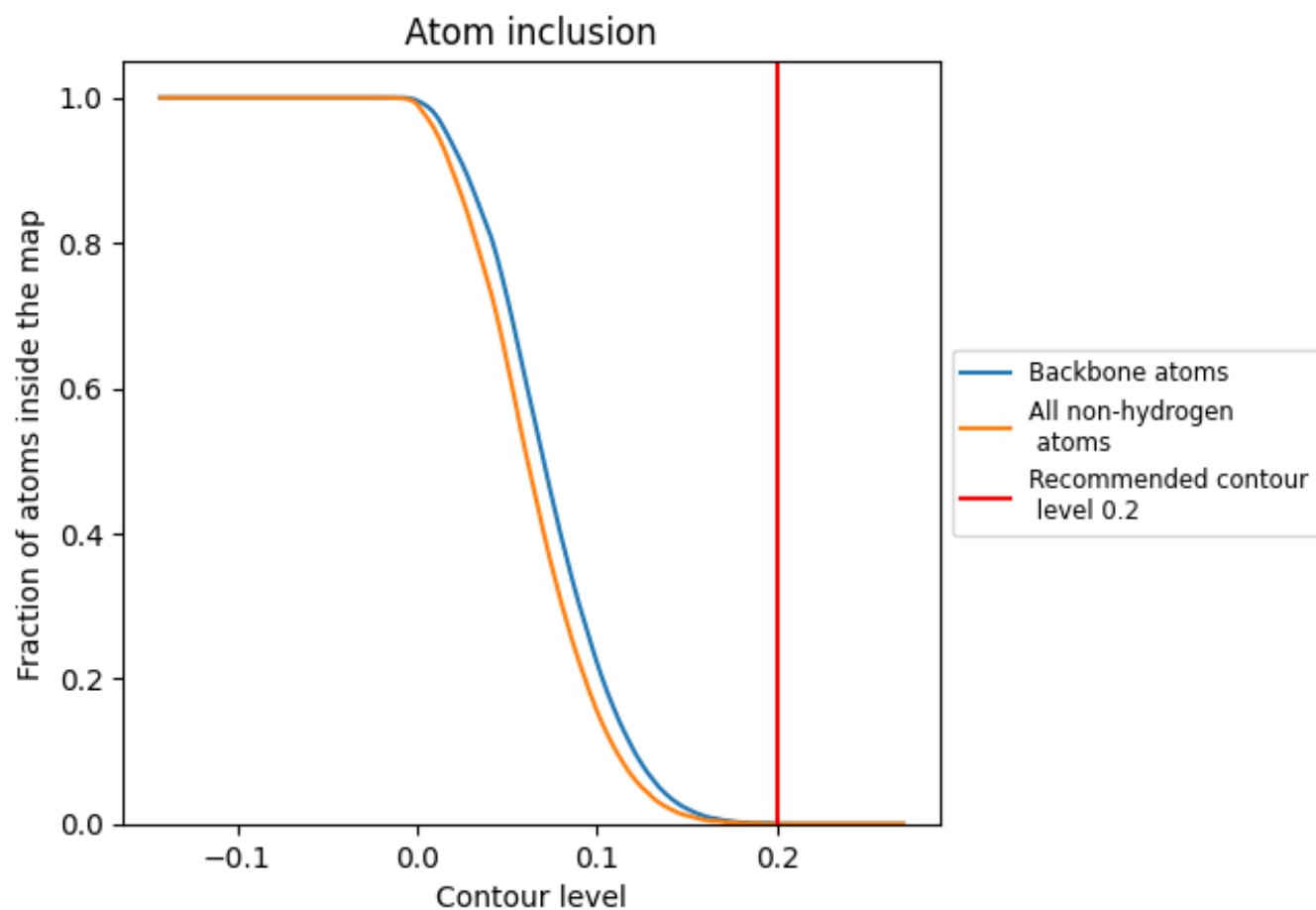
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 0% of all backbone atoms, 0% 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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.0000	 0.6330
1	 0.0000	 0.6350
2	 0.0010	 0.6330
3	 0.0000	 0.6310
4	 0.0000	 0.6310
5	 0.0000	 0.6340
6	 0.0010	 0.6340
7	 0.0000	 0.6330
8	 0.0000	 0.6320
9	 0.0000	 0.6360
A	 0.0000	 0.6300
B	 0.0000	 0.6330
C	 0.0000	 0.6320
D	 0.0000	 0.6330
E	 0.0000	 0.6320
F	 0.0000	 0.6380
G	 0.0000	 0.6340
H	 0.0000	 0.6350
I	 0.0000	 0.6350
J	 0.0010	 0.6320
K	 0.0000	 0.6350
L	 0.0000	 0.6380
M	 0.0000	 0.6290
N	 0.0000	 0.6320
O	 0.0000	 0.6310
P	 0.0000	 0.6360
Q	 0.0000	 0.6310
R	 0.0000	 0.6330
S	 0.0000	 0.6360
T	 0.0000	 0.6330
V	 0.0000	 0.6330
W	 0.0000	 0.6340
X	 0.0000	 0.6310
Y	 0.0000	 0.6330
Z	 0.0000	 0.6330



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Chain	Atom inclusion	Q-score
a	 0.0000	 0.6350
b	 0.0000	 0.6300
c	 0.0000	 0.6360
d	 0.0000	 0.6310
e	 0.0000	 0.6340
f	 0.0000	 0.6310
g	 0.0000	 0.6320
h	 0.0010	 0.6310
i	 0.0000	 0.6330
j	 0.0000	 0.6320
k	 0.0000	 0.6340
l	 0.0000	 0.6320
m	 0.0000	 0.6310
n	 0.0000	 0.6340
o	 0.0000	 0.6310
p	 0.0000	 0.6330
q	 0.0000	 0.6330
r	 0.0000	 0.6370
s	 0.0000	 0.6350
t	 0.0000	 0.6350
u	 0.0000	 0.6310
v	 0.0000	 0.6370
w	 0.0000	 0.6320
x	 0.0000	 0.6340
y	 0.0000	 0.6320
z	 0.0000	 0.6320