Full wwPDB EM Validation Report

Mar 6, 2026 – 08:39 PM UTC

PDB ID	:	7MUA / pdb_00007mua
EMDB ID	:	EMD-24003
Title	:	Structure of the adeno-associated virus 9 capsid at pH pH 5.5 in complex with terminal galactose
Authors	:	Penzes, J.J.; Chipman, P.; Bhattacharya, N.; Zeher, A.; Huang, R.; McKenna, R.; Agbandje-McKenna, M.
Deposited on	:	2021-05-14
Resolution	:	2.68 Å(reported)
Based on initial model	:	3UX1

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:

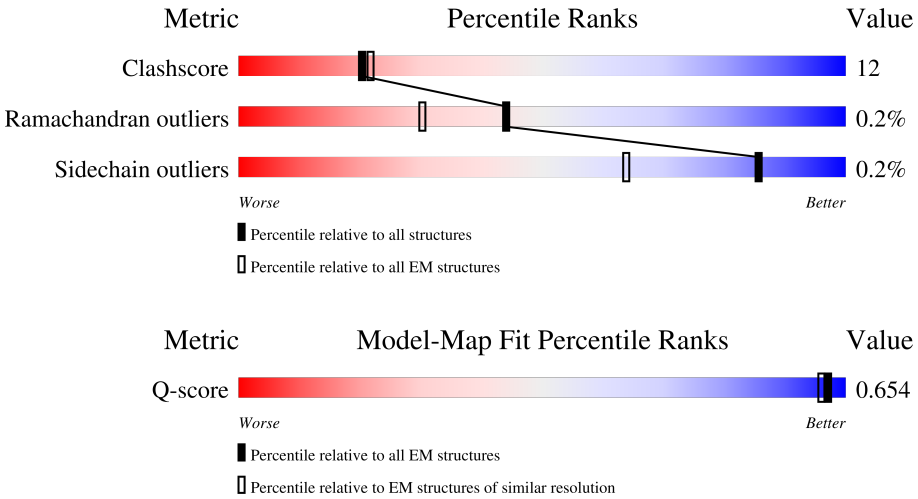
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data 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 2.68 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	9255 (2.18 - 3.18)

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

Mol	Chain	Length	Quality of chain
1	1	518	72% 27%
1	2	518	72% 28%
1	3	518	72% 27%

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Mol	Chain	Length	Quality of chain
1	4	518	72% 28%
1	5	518	73% 27%
1	6	518	72% 28%
1	7	518	73% 27%
1	8	518	72% 27%
1	A	518	72% 27%
1	B	518	72% 27%
1	C	518	73% 27%
1	D	518	72% 28%
1	E	518	72% 28%
1	F	518	73% 27%
1	G	518	72% 28%
1	H	518	73% 27%
1	I	518	73% 27%
1	J	518	72% 27%
1	K	518	73% 27%
1	L	518	72% 28%
1	M	518	72% 27%
1	N	518	73% 27%
1	O	518	72% 27%
1	P	518	72% 28%
1	Q	518	72% 28%
1	R	518	73% 27%
1	S	518	72% 28%
1	T	518	73% 27%

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Mol	Chain	Length	Quality of chain
1	U	518	72% 28%
1	V	518	72% 28%
1	W	518	73% 27%
1	X	518	73% 27%
1	Y	518	73% 27%
1	Z	518	72% 28%
1	a	518	72% 28%
1	b	518	72% 27%
1	c	518	73% 27%
1	d	518	71% 28%
1	e	518	72% 27%
1	f	518	73% 27%
1	g	518	73% 27%
1	h	518	72% 28%
1	i	518	72% 28%
1	j	518	72% 28%
1	k	518	72% 27%
1	l	518	72% 27%
1	m	518	72% 27%
1	n	518	73% 27%
1	o	518	72% 27%
1	p	518	72% 28%
1	q	518	71% 28%
1	r	518	72% 28%
1	s	518	73% 27%

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Mol	Chain	Length	Quality of chain
1	t	518	72% 28%
1	u	518	73% 27%
1	v	518	73% 27%
1	w	518	72% 27%
1	x	518	73% 27%
1	y	518	73% 27%
1	z	518	72% 27%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 248580 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	B	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	C	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	D	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	E	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	F	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	G	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	H	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	I	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	J	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	K	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	L	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	M	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	N	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	O	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	P	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	Q	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	S	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	T	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	U	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	V	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	W	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	X	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Y	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Z	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	1	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	2	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	3	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	4	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	5	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	6	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	a	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	b	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	c	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	d	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	e	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	f	518	Total 4131	C 2608	N 718	O 791	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	h	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	i	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	j	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	k	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	l	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	m	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	n	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	o	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	p	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	q	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	r	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	s	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	t	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	u	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	v	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	w	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	x	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	y	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	z	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	7	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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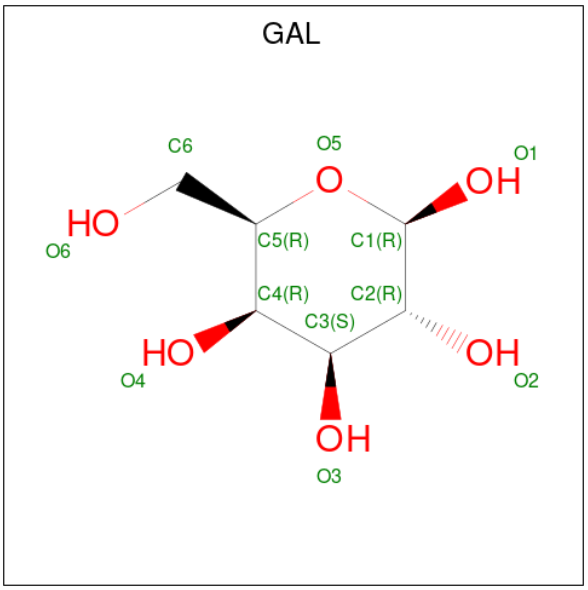
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

- Molecule 2 is beta-D-galactopyranose (CCD ID: GAL) (formula: $C_6H_{12}O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
2	A	1	Total	C	O	0
			12	6	6	
2	B	1	Total	C	O	0
			12	6	6	
2	C	1	Total	C	O	0
			12	6	6	
2	D	1	Total	C	O	0
			12	6	6	
2	E	1	Total	C	O	0
			12	6	6	
2	F	1	Total	C	O	0
			12	6	6	
2	G	1	Total	C	O	0
			12	6	6	
2	H	1	Total	C	O	0
			12	6	6	
2	I	1	Total	C	O	0
			12	6	6	
2	J	1	Total	C	O	0
			12	6	6	

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Mol	Chain	Residues	Atoms			AltConf
2	K	1	Total	C	O	0
			12	6	6	
2	L	1	Total	C	O	0
			12	6	6	
2	M	1	Total	C	O	0
			12	6	6	
2	N	1	Total	C	O	0
			12	6	6	
2	O	1	Total	C	O	0
			12	6	6	
2	P	1	Total	C	O	0
			12	6	6	
2	Q	1	Total	C	O	0
			12	6	6	
2	R	1	Total	C	O	0
			12	6	6	
2	S	1	Total	C	O	0
			12	6	6	
2	T	1	Total	C	O	0
			12	6	6	
2	U	1	Total	C	O	0
			12	6	6	
2	V	1	Total	C	O	0
			12	6	6	
2	W	1	Total	C	O	0
			12	6	6	
2	X	1	Total	C	O	0
			12	6	6	
2	Y	1	Total	C	O	0
			12	6	6	
2	Z	1	Total	C	O	0
			12	6	6	
2	1	1	Total	C	O	0
			12	6	6	
2	2	1	Total	C	O	0
			12	6	6	
2	3	1	Total	C	O	0
			12	6	6	
2	4	1	Total	C	O	0
			12	6	6	
2	5	1	Total	C	O	0
			12	6	6	

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Mol	Chain	Residues	Atoms			AltConf
2	6	1	Total	C	O	0
			12	6	6	
2	a	1	Total	C	O	0
			12	6	6	
2	b	1	Total	C	O	0
			12	6	6	
2	c	1	Total	C	O	0
			12	6	6	
2	d	1	Total	C	O	0
			12	6	6	
2	e	1	Total	C	O	0
			12	6	6	
2	f	1	Total	C	O	0
			12	6	6	
2	g	1	Total	C	O	0
			12	6	6	
2	h	1	Total	C	O	0
			12	6	6	
2	i	1	Total	C	O	0
			12	6	6	
2	j	1	Total	C	O	0
			12	6	6	
2	k	1	Total	C	O	0
			12	6	6	
2	l	1	Total	C	O	0
			12	6	6	
2	m	1	Total	C	O	0
			12	6	6	
2	n	1	Total	C	O	0
			12	6	6	
2	o	1	Total	C	O	0
			12	6	6	
2	p	1	Total	C	O	0
			12	6	6	
2	q	1	Total	C	O	0
			12	6	6	
2	r	1	Total	C	O	0
			12	6	6	
2	s	1	Total	C	O	0
			12	6	6	
2	t	1	Total	C	O	0
			12	6	6	

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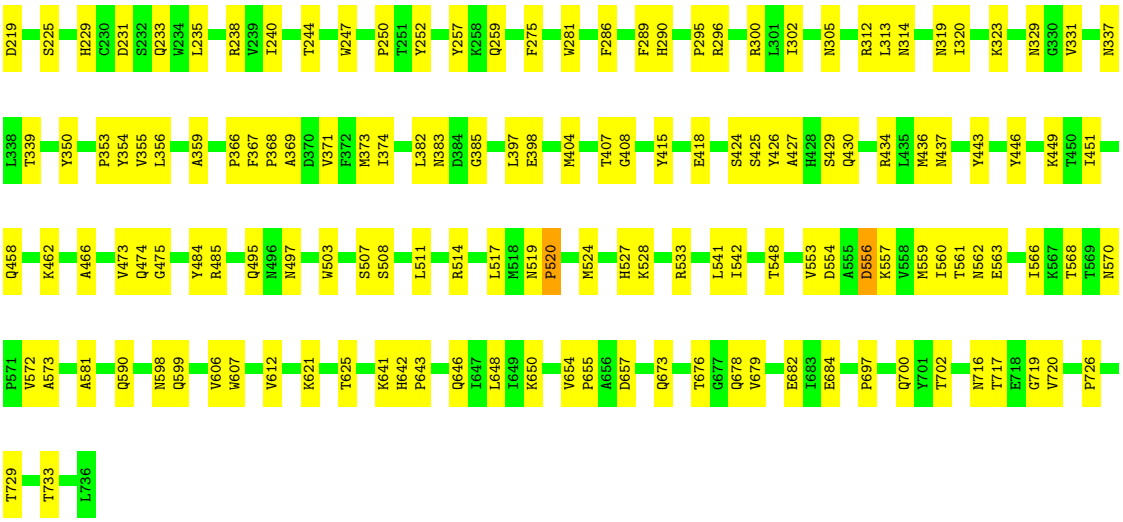
Mol	Chain	Residues	Atoms			AltConf
2	u	1	Total	C	O	0
			12	6	6	
2	v	1	Total	C	O	0
			12	6	6	
2	w	1	Total	C	O	0
			12	6	6	
2	x	1	Total	C	O	0
			12	6	6	
2	y	1	Total	C	O	0
			12	6	6	
2	z	1	Total	C	O	0
			12	6	6	
2	7	1	Total	C	O	0
			12	6	6	
2	8	1	Total	C	O	0
			12	6	6	

3 Residue-property plots (i)

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

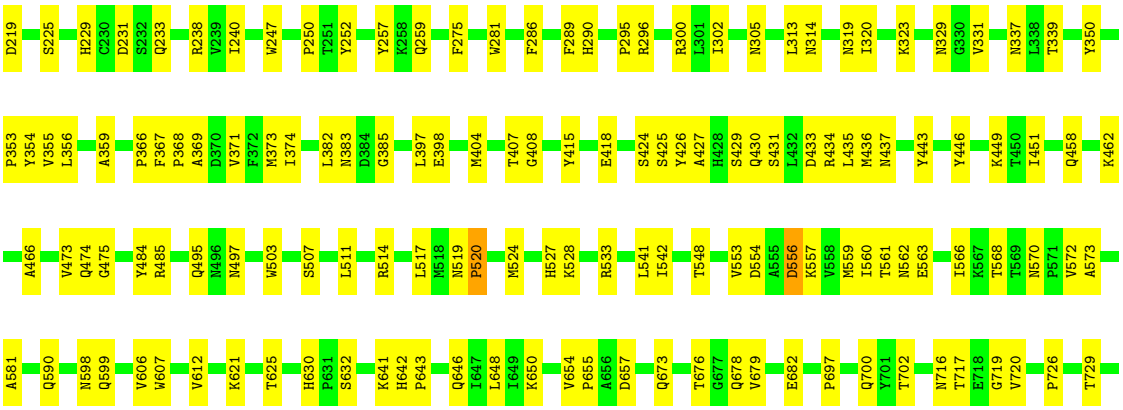
• Molecule 1: Capsid protein VP1

Chain A:



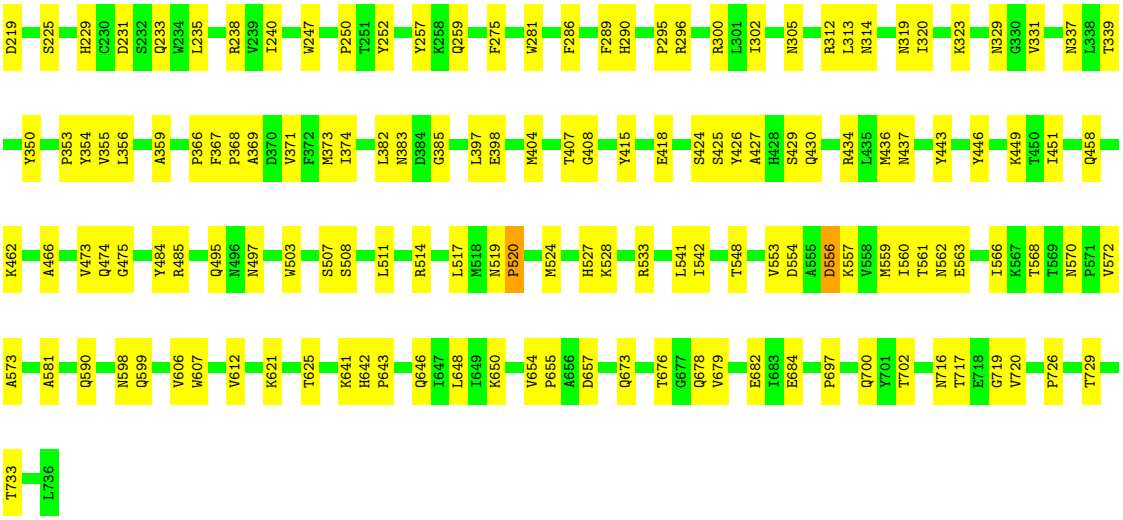
• Molecule 1: Capsid protein VP1

Chain B:



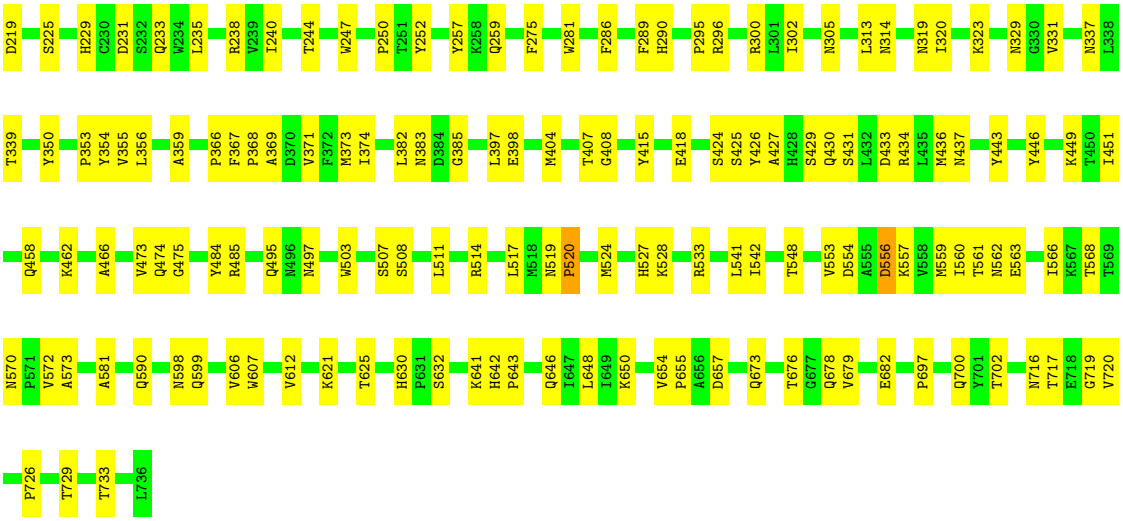
• Molecule 1: Capsid protein VP1

Chain C:



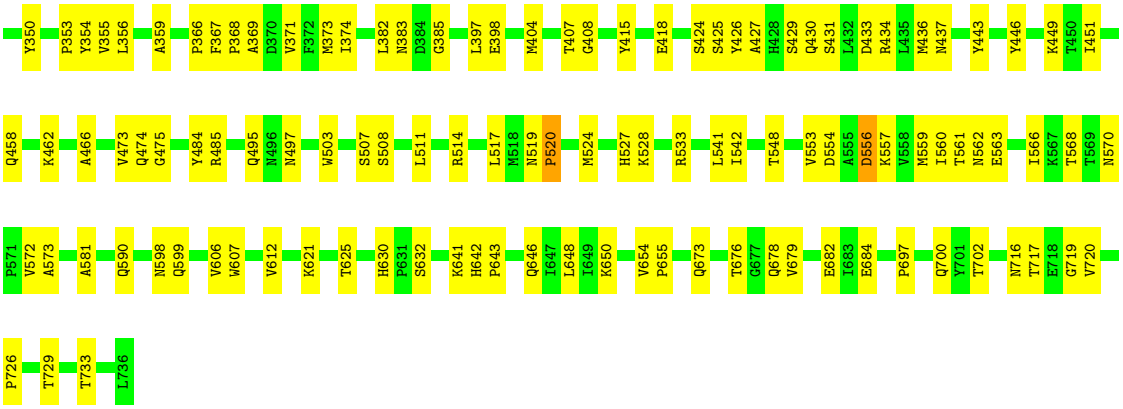
• Molecule 1: Capsid protein VP1

Chain D:



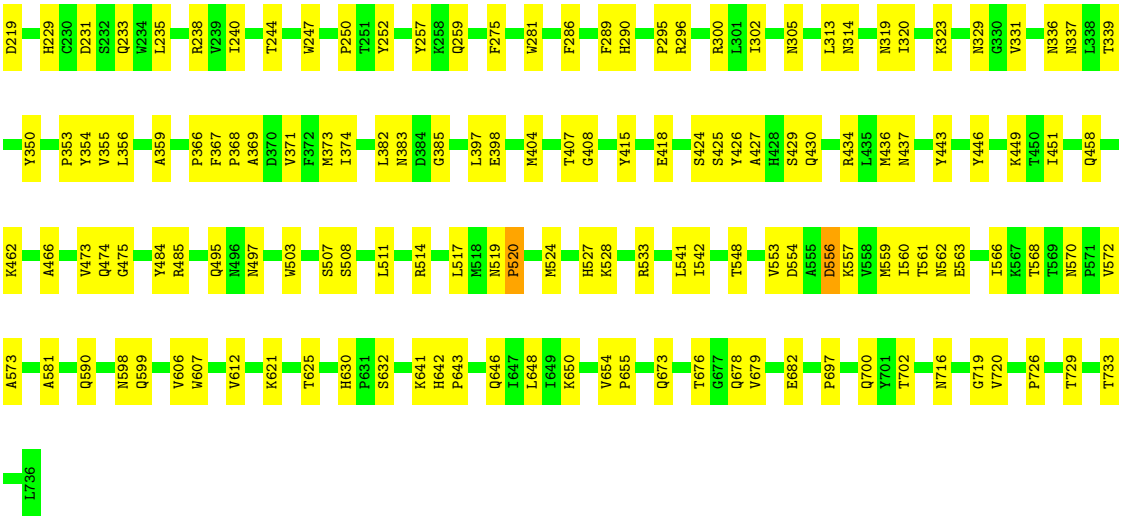
• Molecule 1: Capsid protein VP1

Chain E:



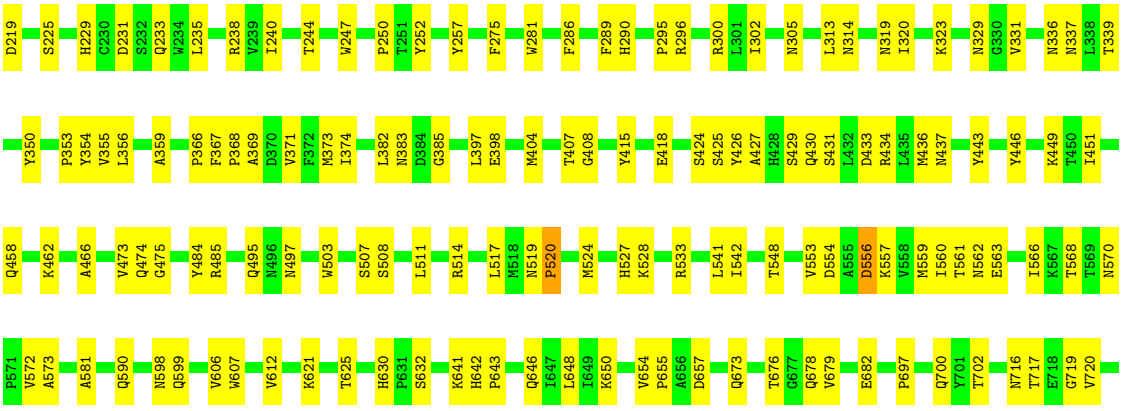
• Molecule 1: Capsid protein VP1

Chain F:



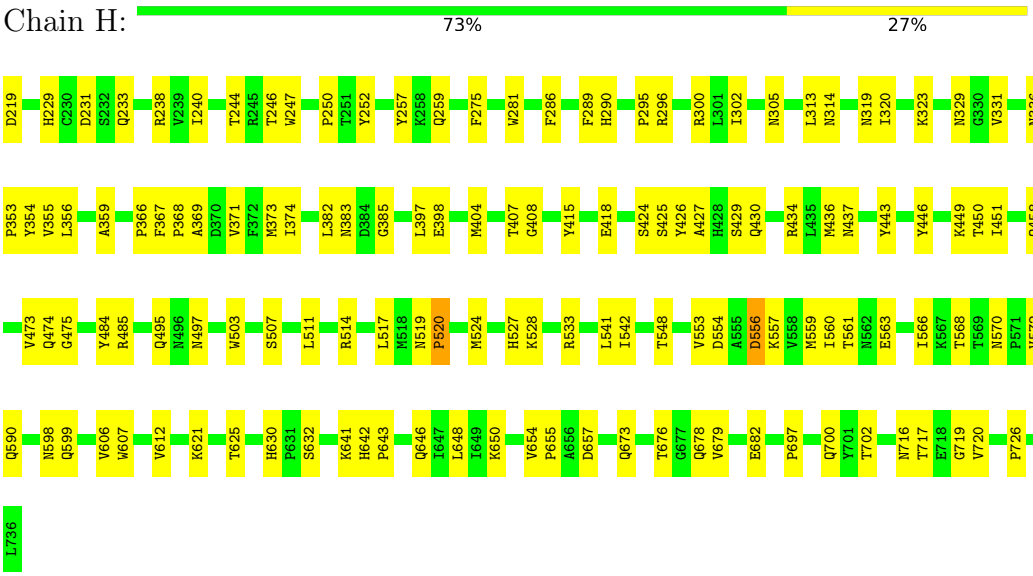
• Molecule 1: Capsid protein VP1

Chain G:



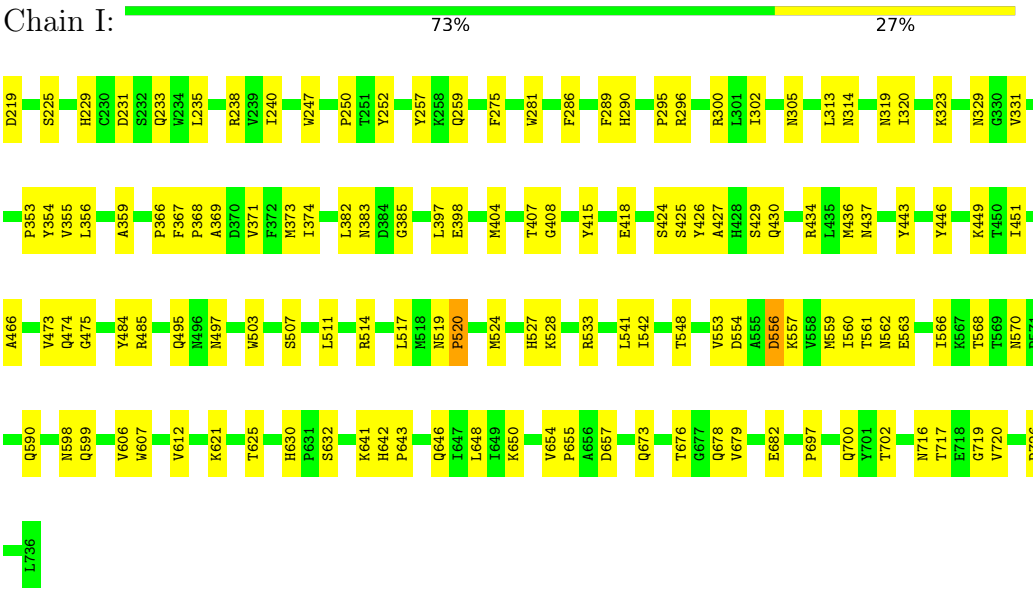
• Molecule 1: Capsid protein VP1

Chain H:



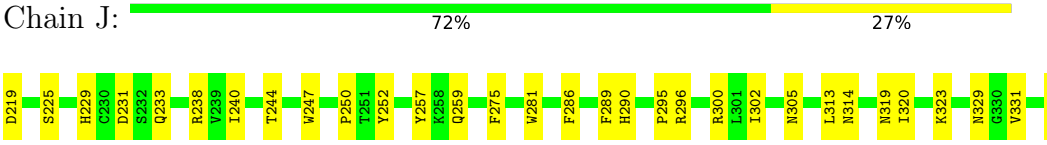
• Molecule 1: Capsid protein VP1

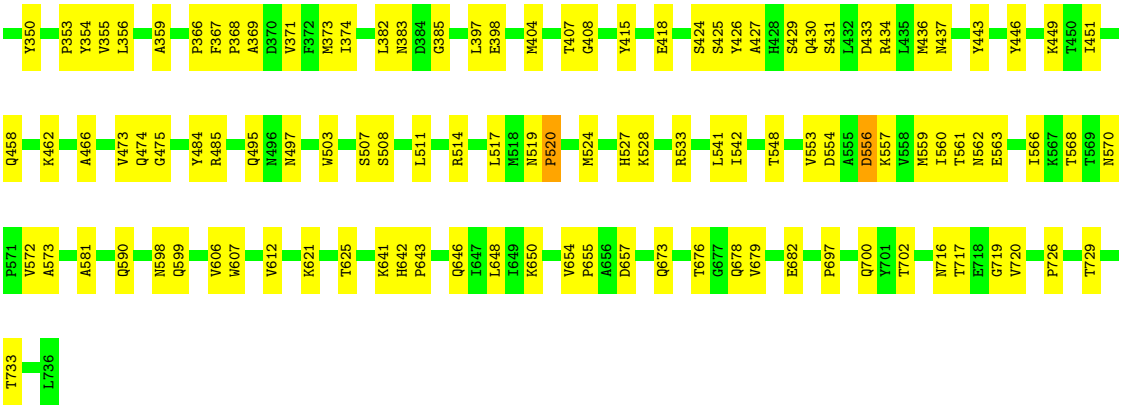
Chain I:



• Molecule 1: Capsid protein VP1

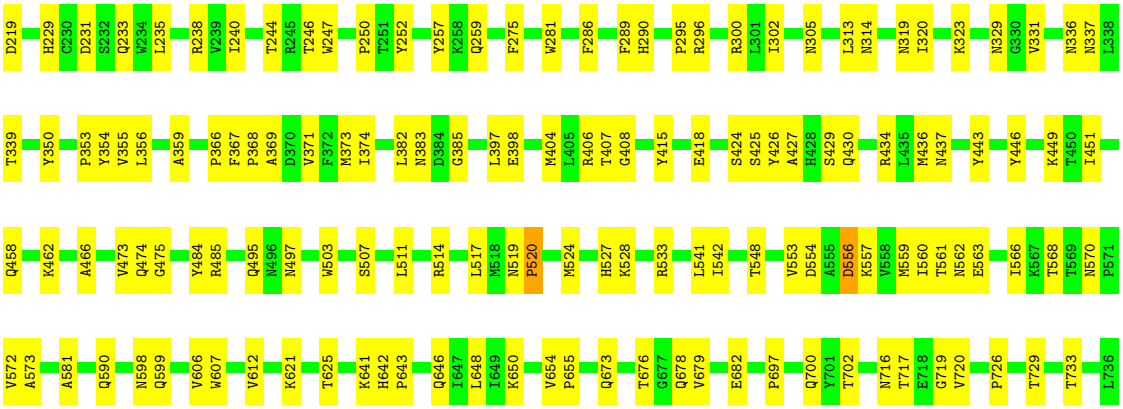
Chain J:





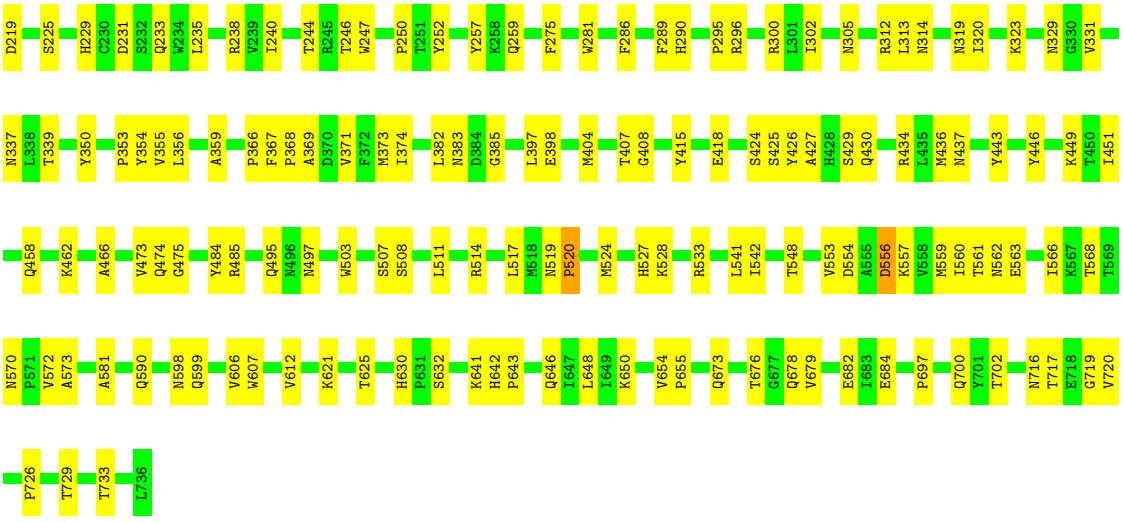
• Molecule 1: Capsid protein VP1

Chain K:



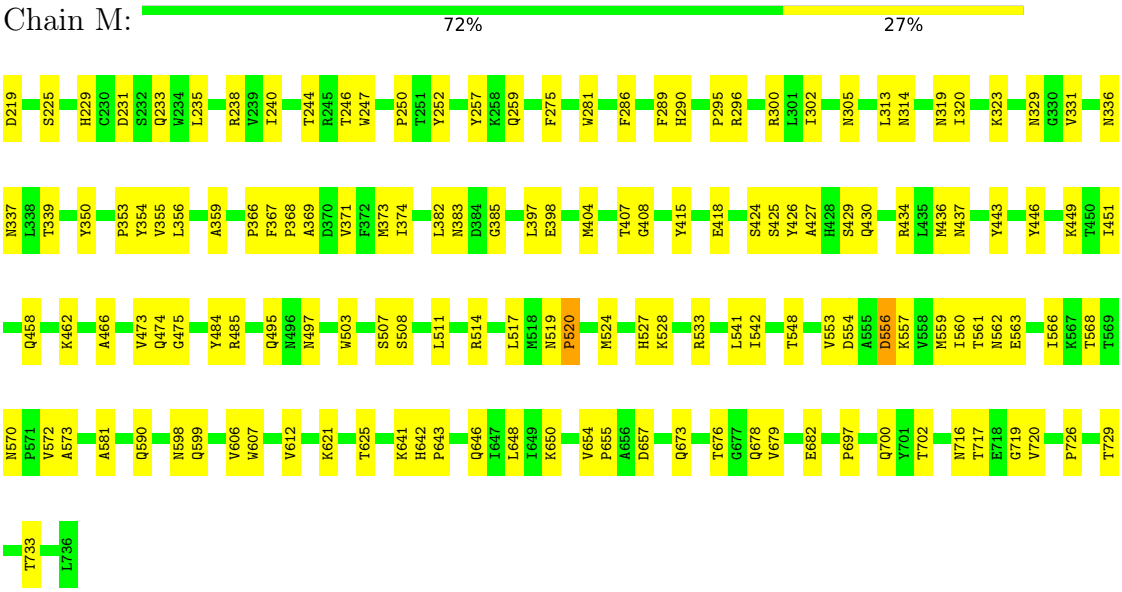
• Molecule 1: Capsid protein VP1

Chain L:



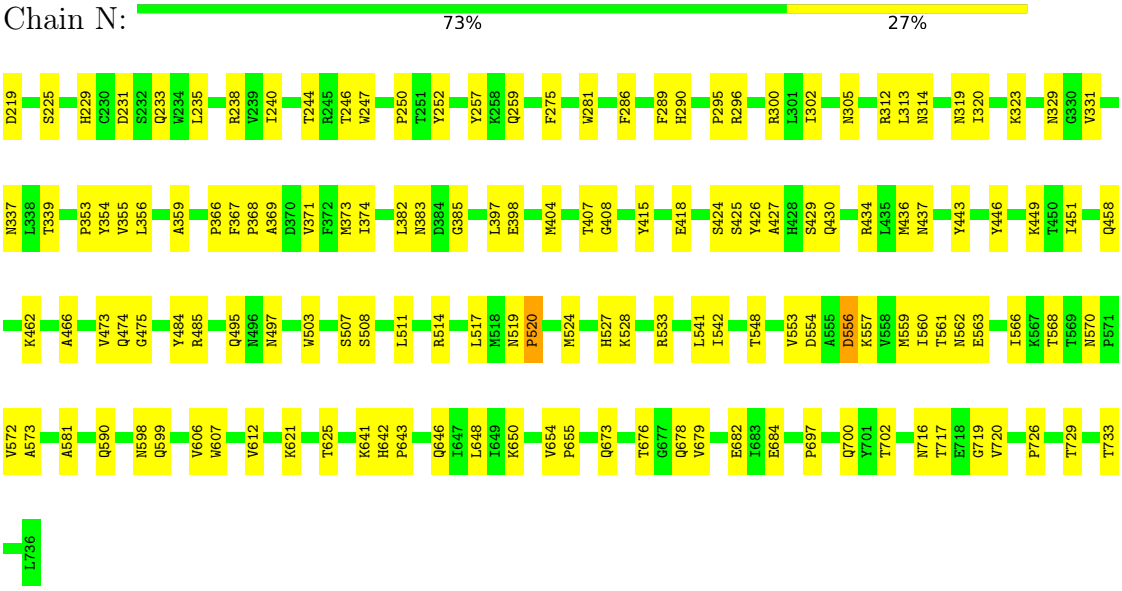
• Molecule 1: Capsid protein VP1

Chain M:



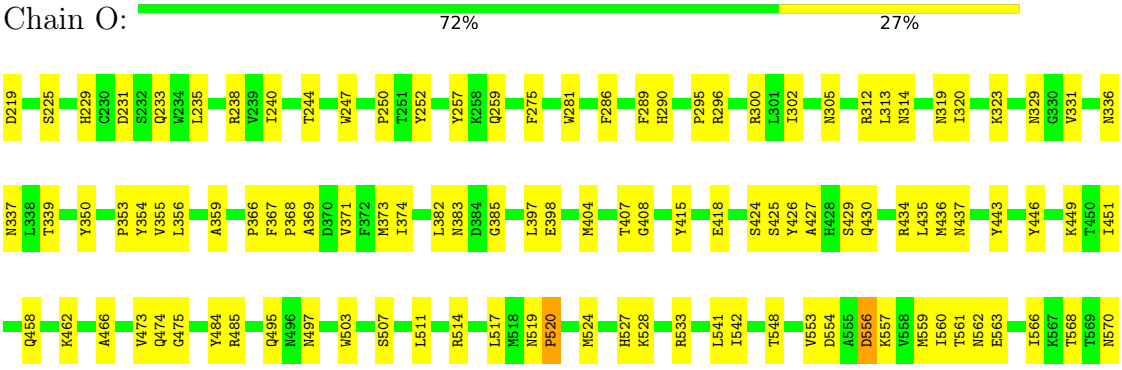
• Molecule 1: Capsid protein VP1

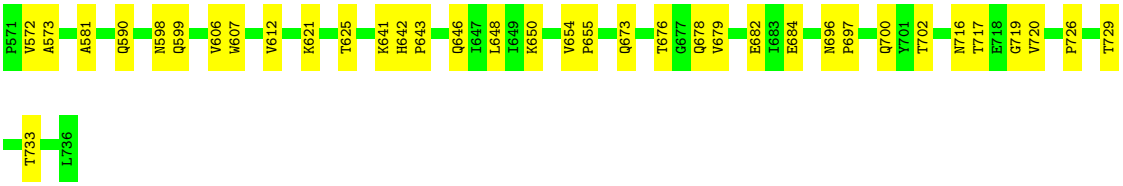
Chain N:



• Molecule 1: Capsid protein VP1

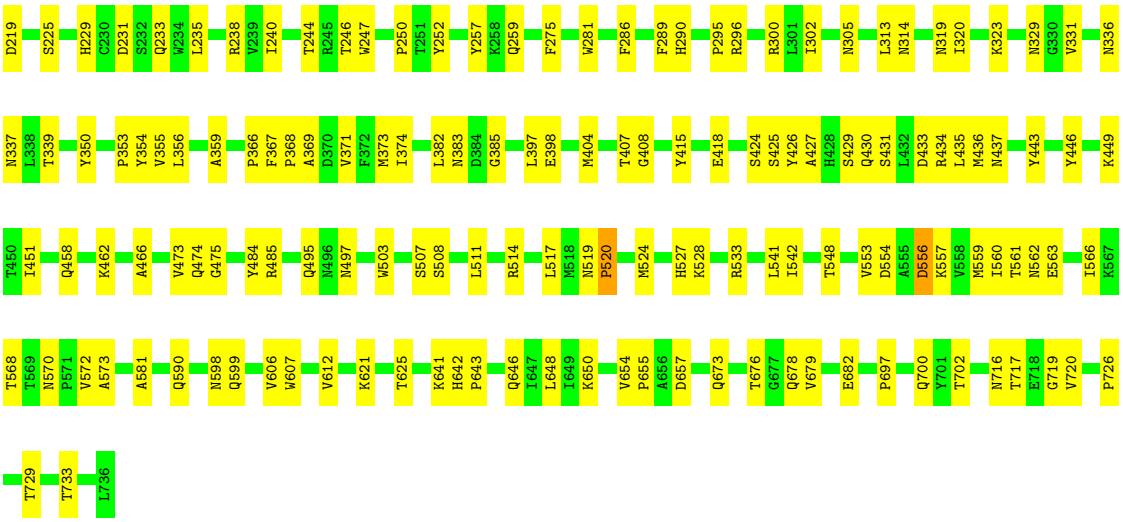
Chain O:





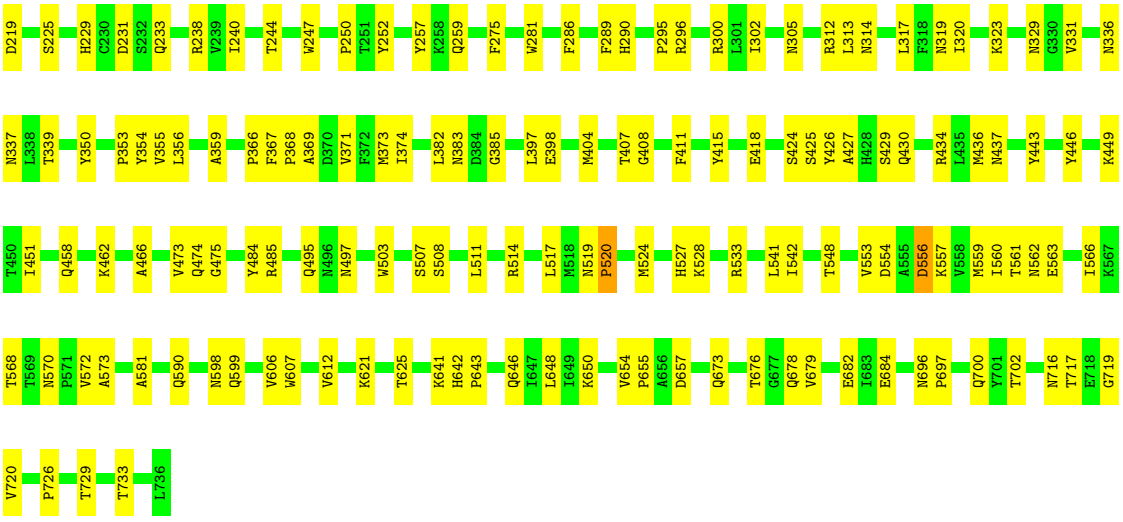
• Molecule 1: Capsid protein VP1

Chain P:



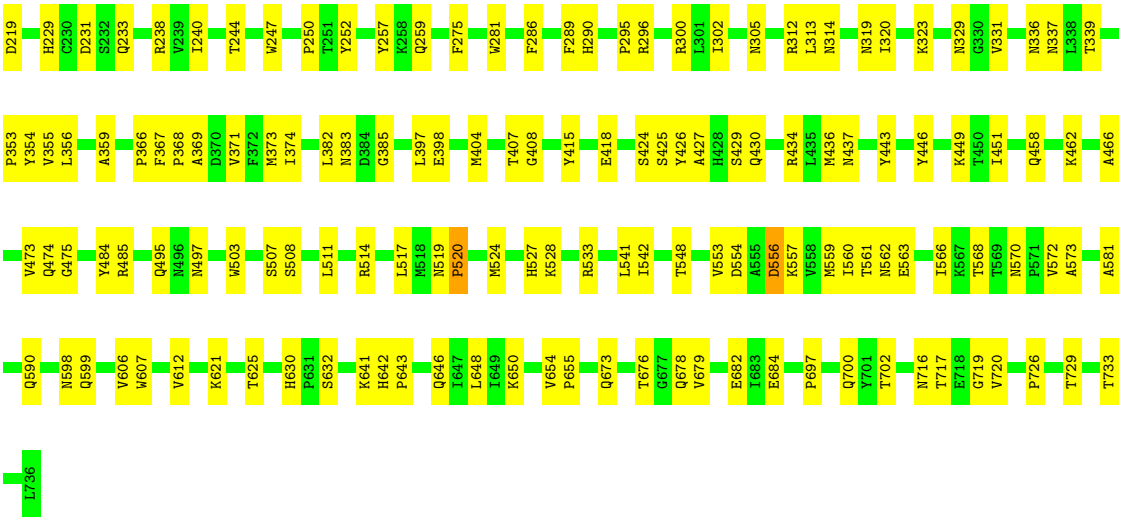
• Molecule 1: Capsid protein VP1

Chain Q:



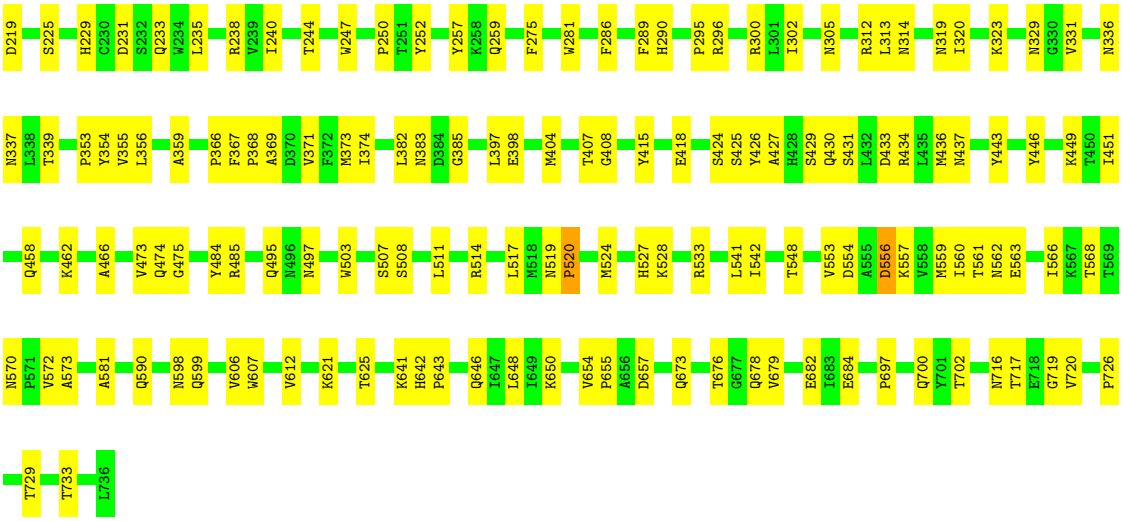
• Molecule 1: Capsid protein VP1

Chain R:



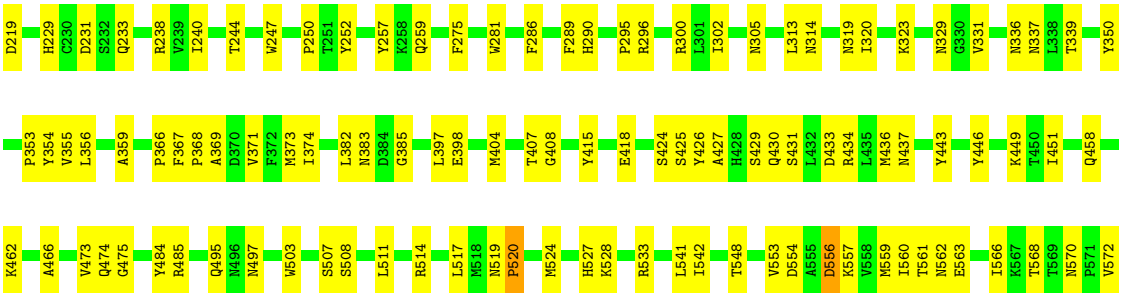
• Molecule 1: Capsid protein VP1

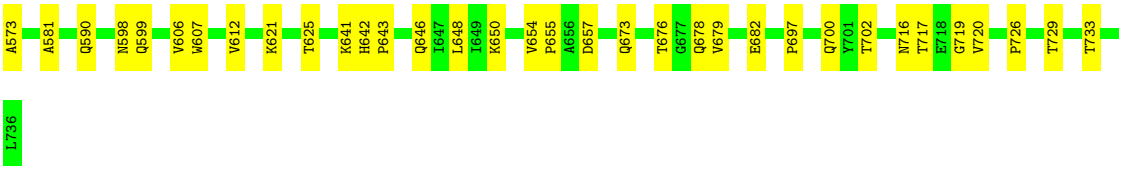
Chain S:



• Molecule 1: Capsid protein VP1

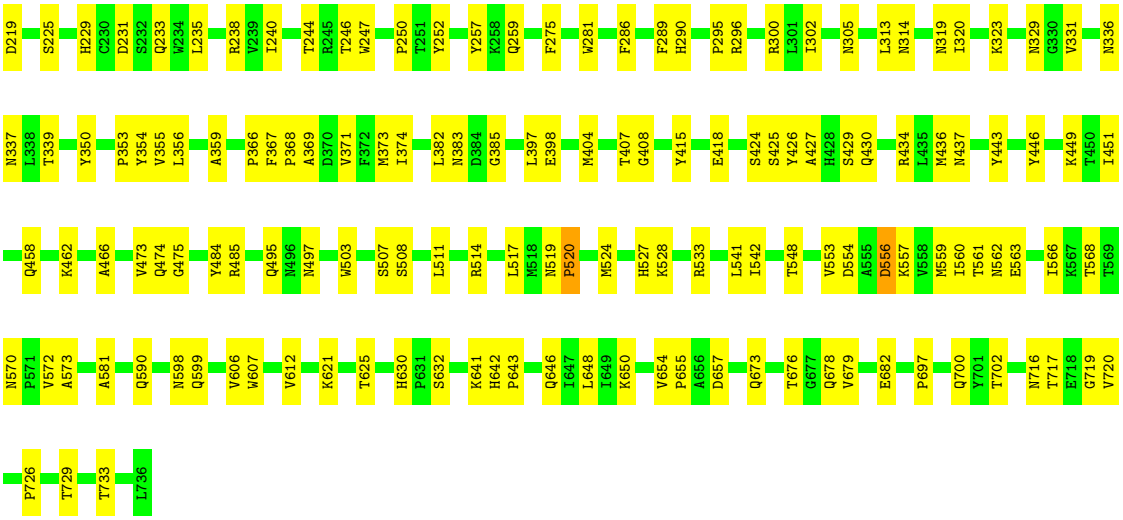
Chain T:





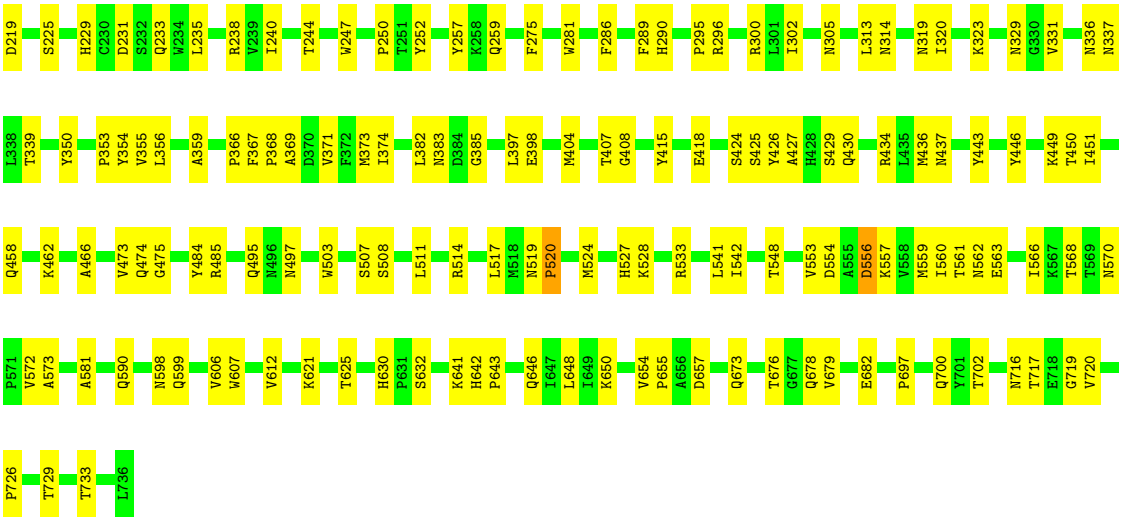
• Molecule 1: Capsid protein VP1

Chain U:



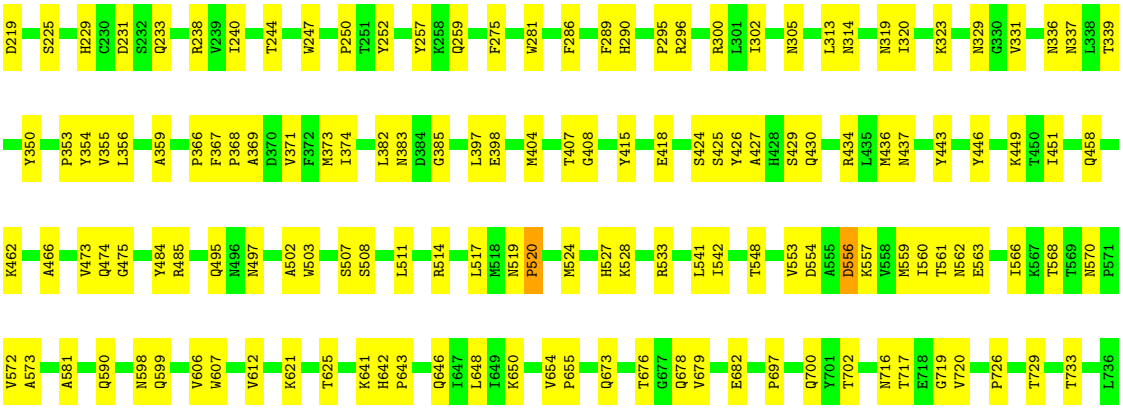
• Molecule 1: Capsid protein VP1

Chain V:



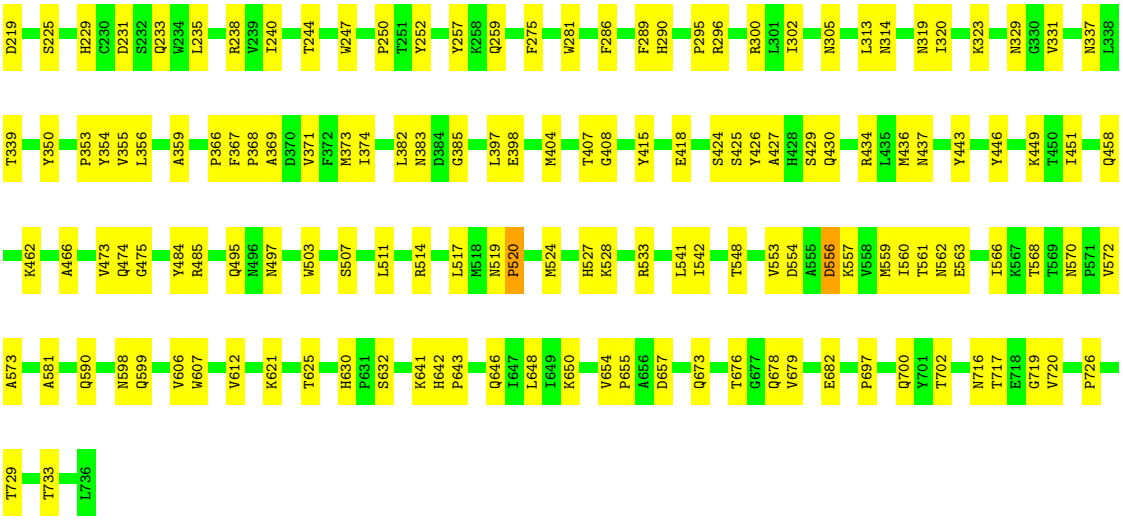
• Molecule 1: Capsid protein VP1

Chain W:



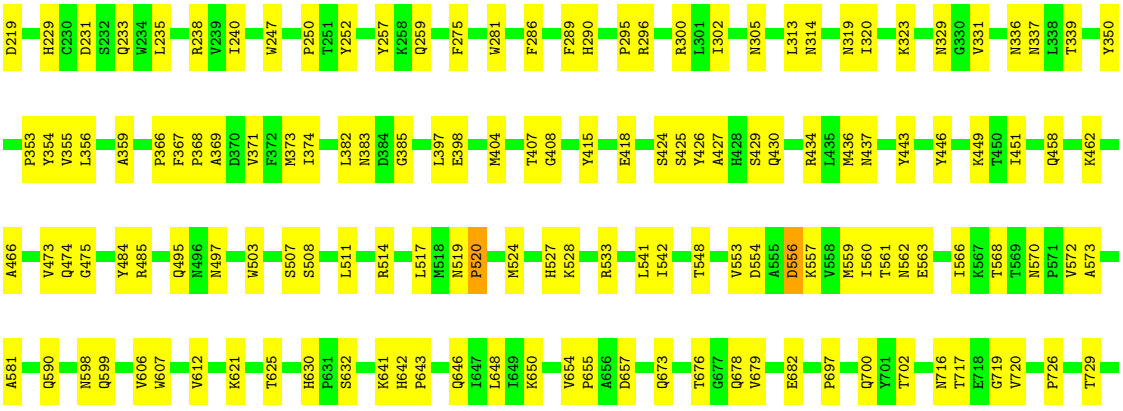
• Molecule 1: Capsid protein VP1

Chain X:



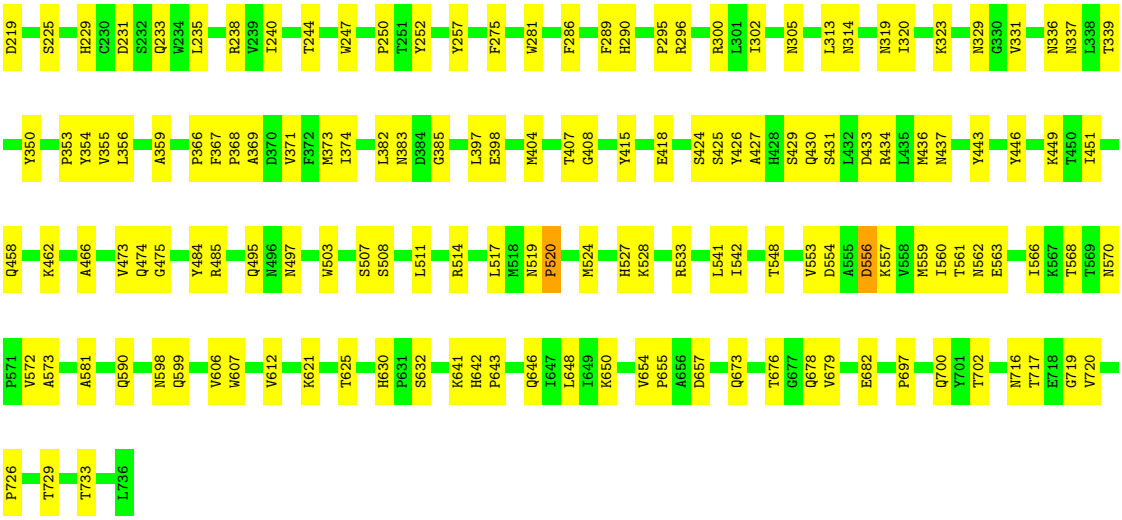
• Molecule 1: Capsid protein VP1

Chain Y:



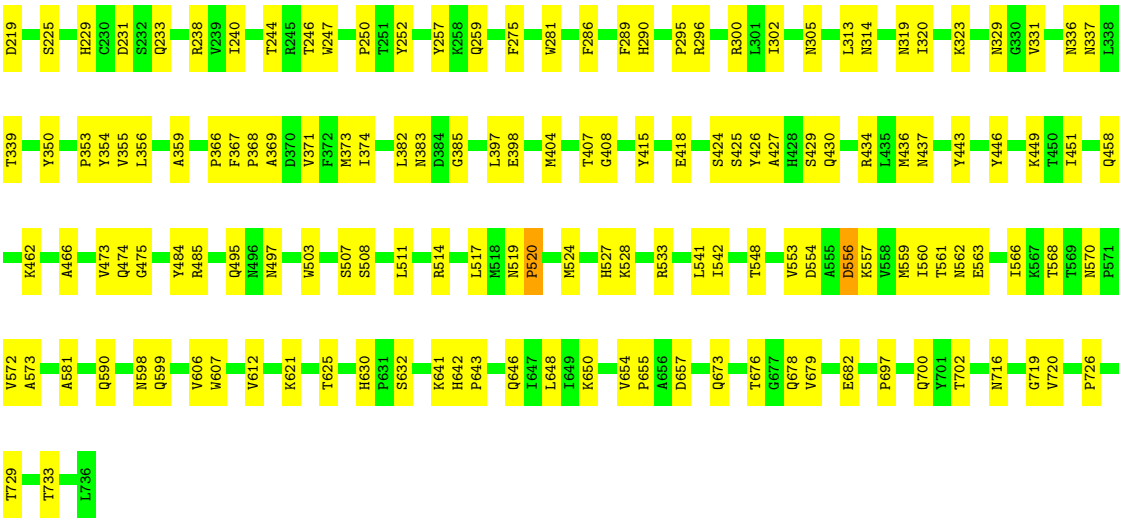
• Molecule 1: Capsid protein VP1

Chain Z:



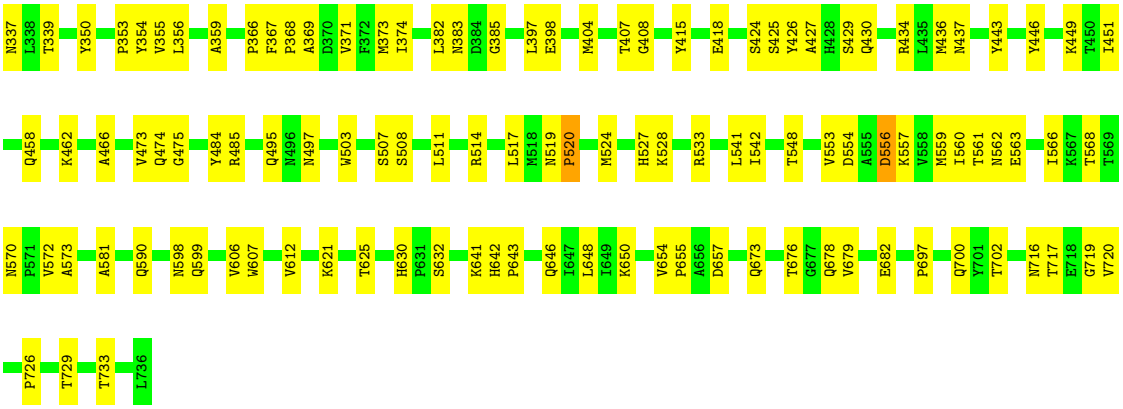
• Molecule 1: Capsid protein VP1

Chain 1:



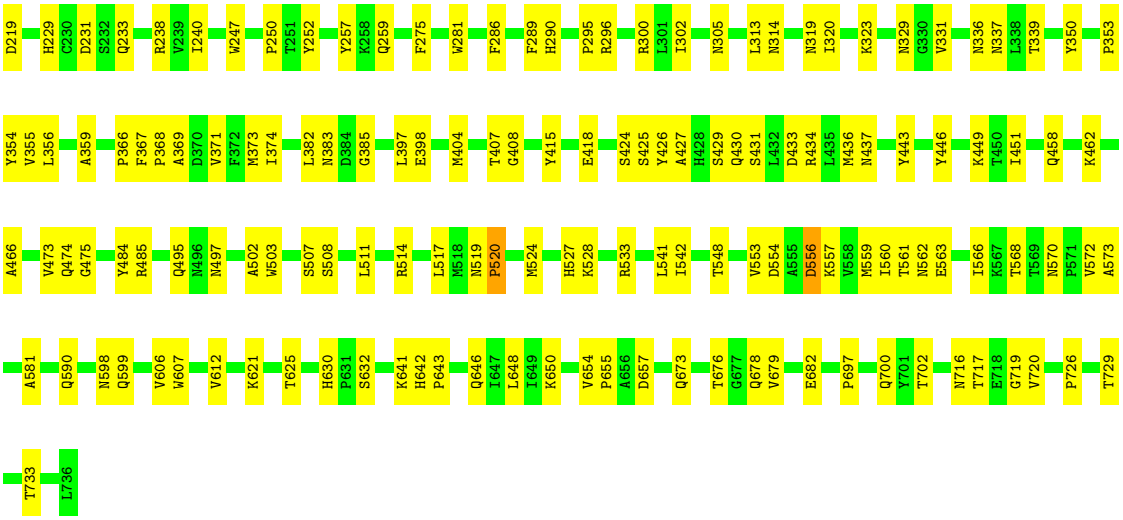
• Molecule 1: Capsid protein VP1

Chain 2:



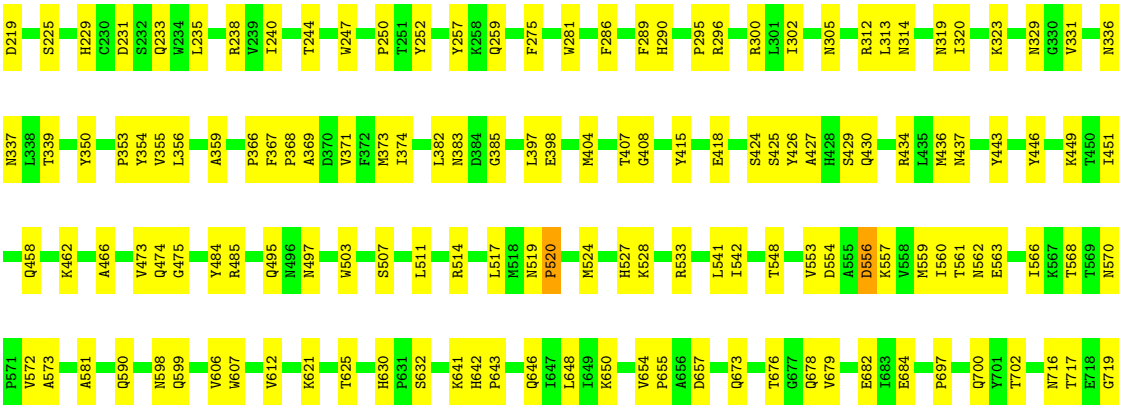
• Molecule 1: Capsid protein VP1

Chain 3:



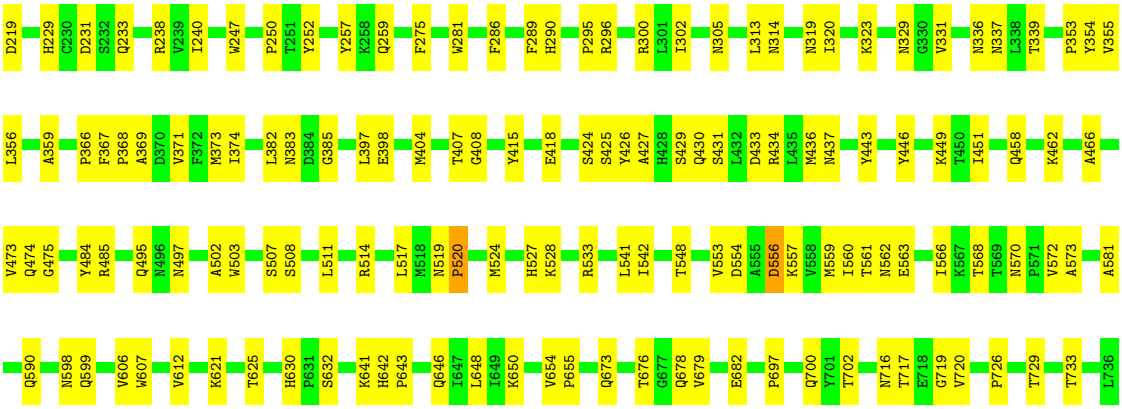
• Molecule 1: Capsid protein VP1

Chain 4:



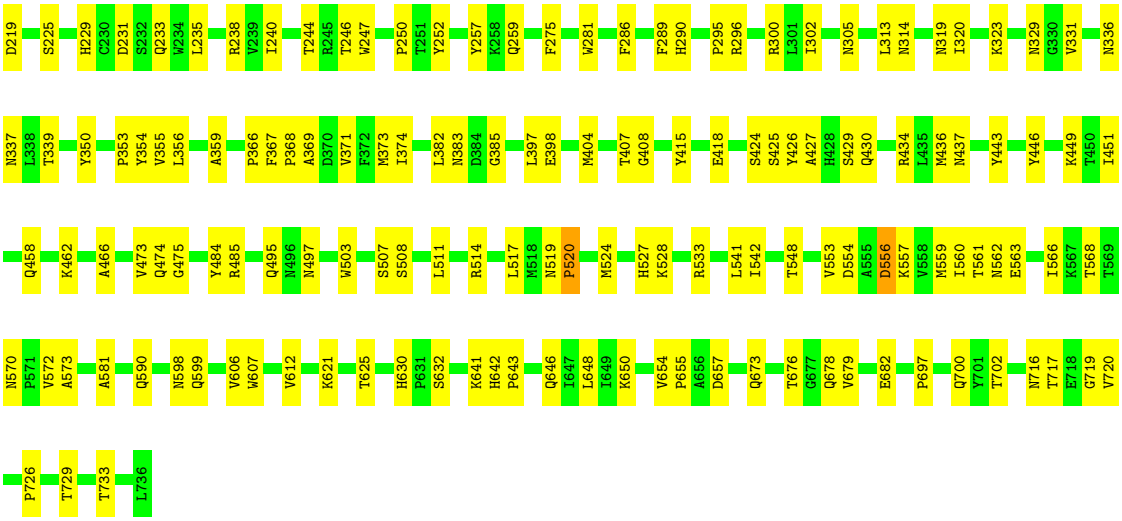
• Molecule 1: Capsid protein VP1

Chain 5:



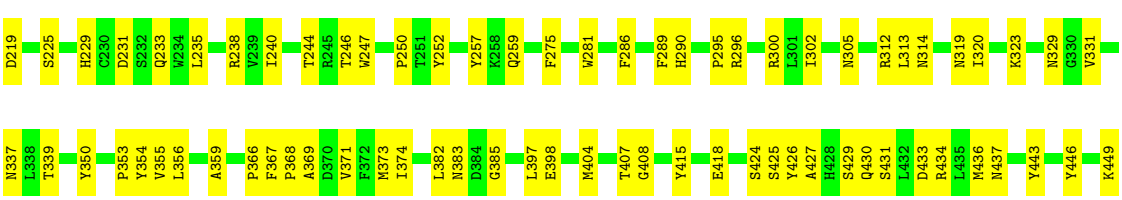
• Molecule 1: Capsid protein VP1

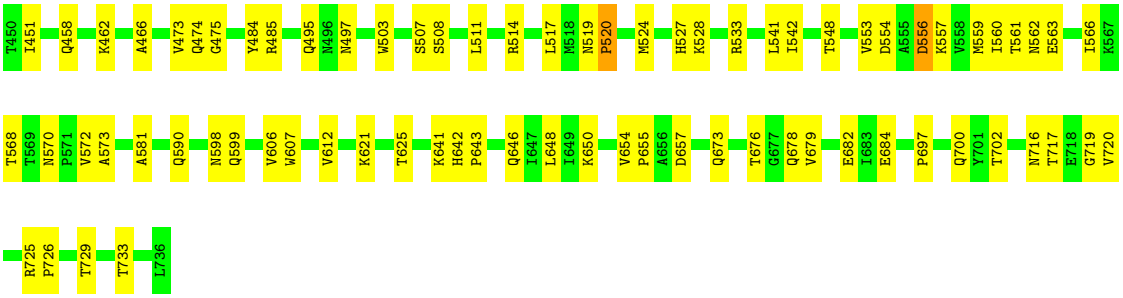
Chain 6:



• Molecule 1: Capsid protein VP1

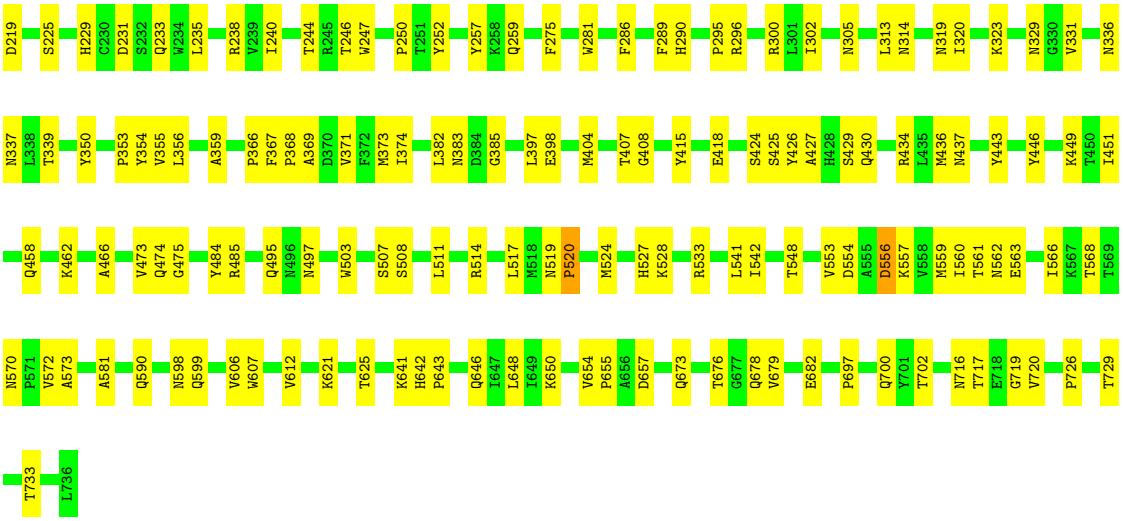
Chain a:





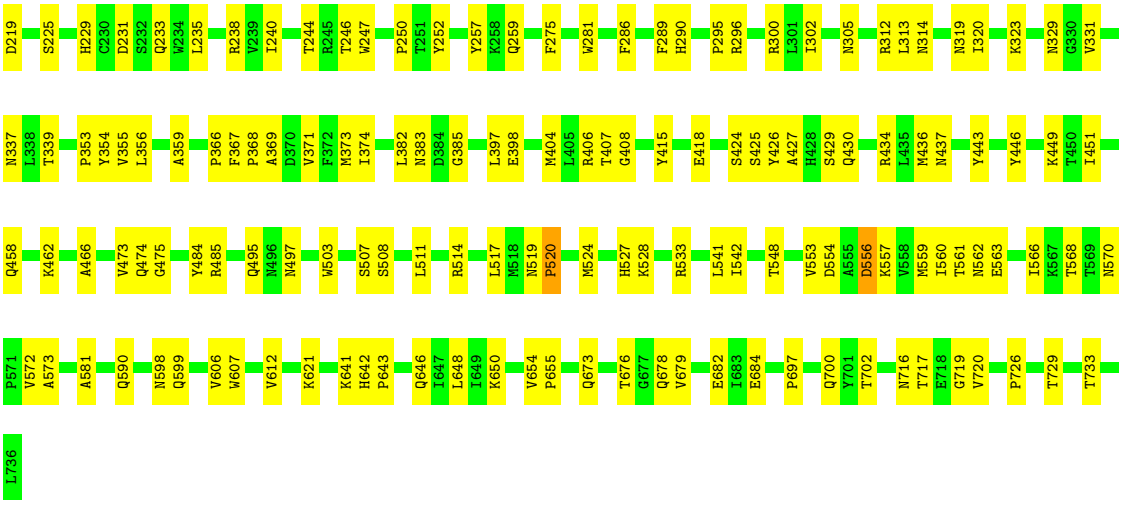
• Molecule 1: Capsid protein VP1

Chain b:



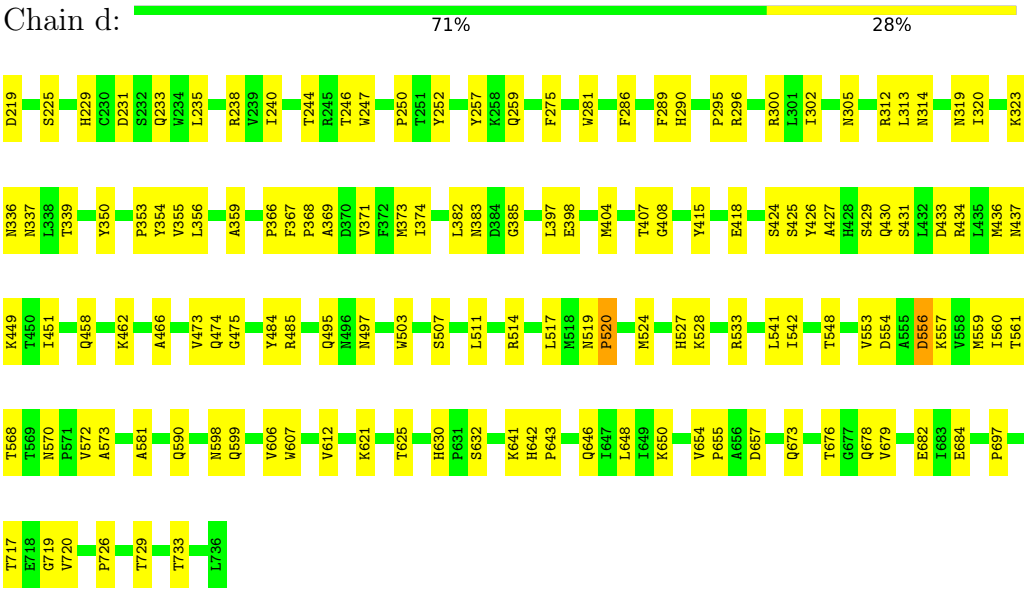
• Molecule 1: Capsid protein VP1

Chain c:



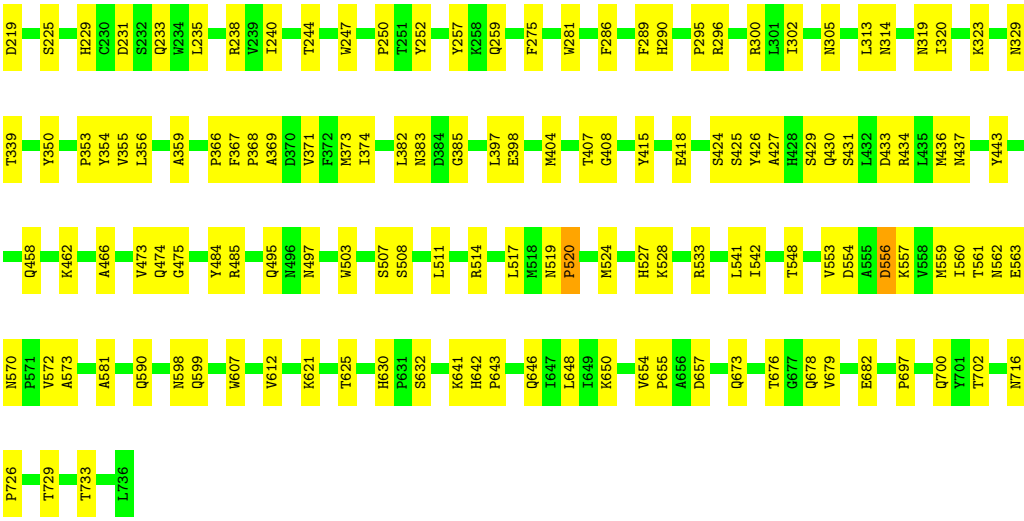
• Molecule 1: Capsid protein VP1

Chain d:



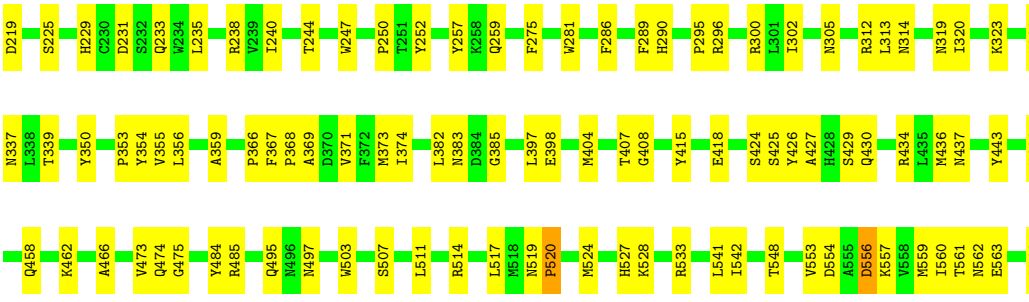
• Molecule 1: Capsid protein VP1

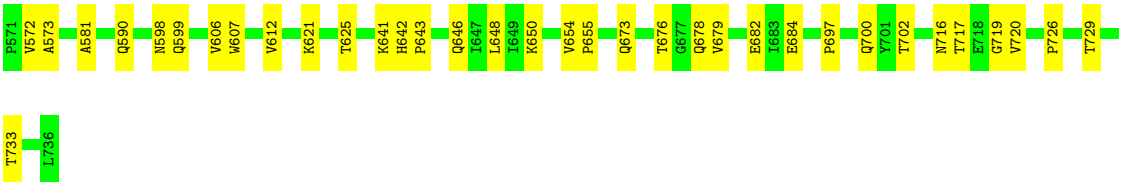
Chain e:



• Molecule 1: Capsid protein VP1

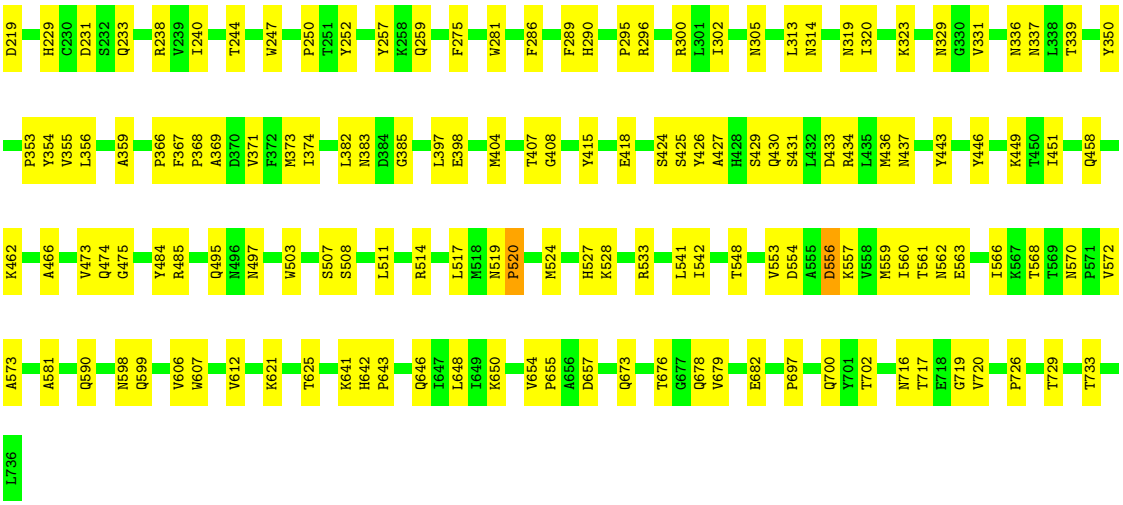
Chain f:





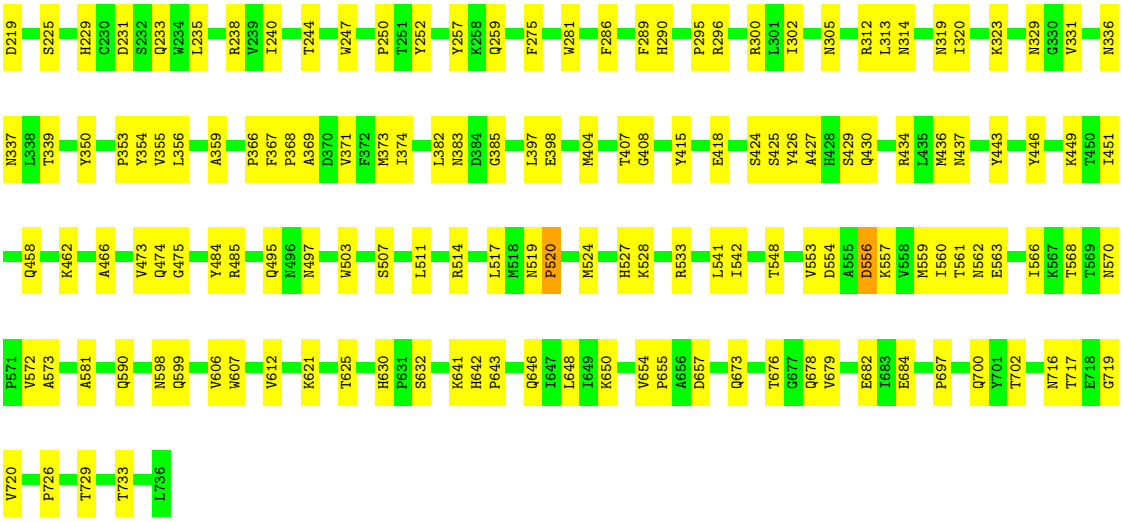
• Molecule 1: Capsid protein VP1

Chain g:



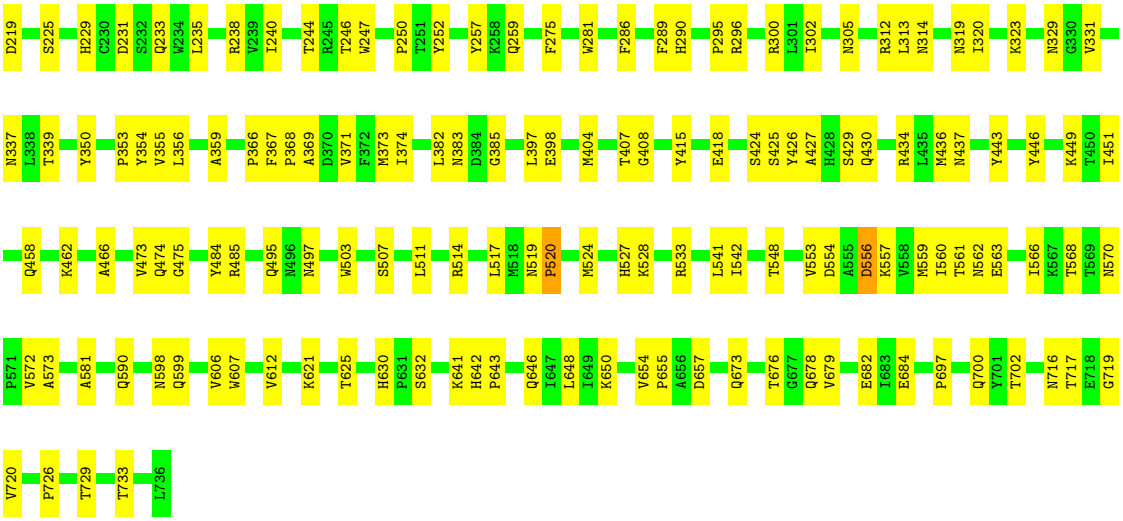
• Molecule 1: Capsid protein VP1

Chain h:



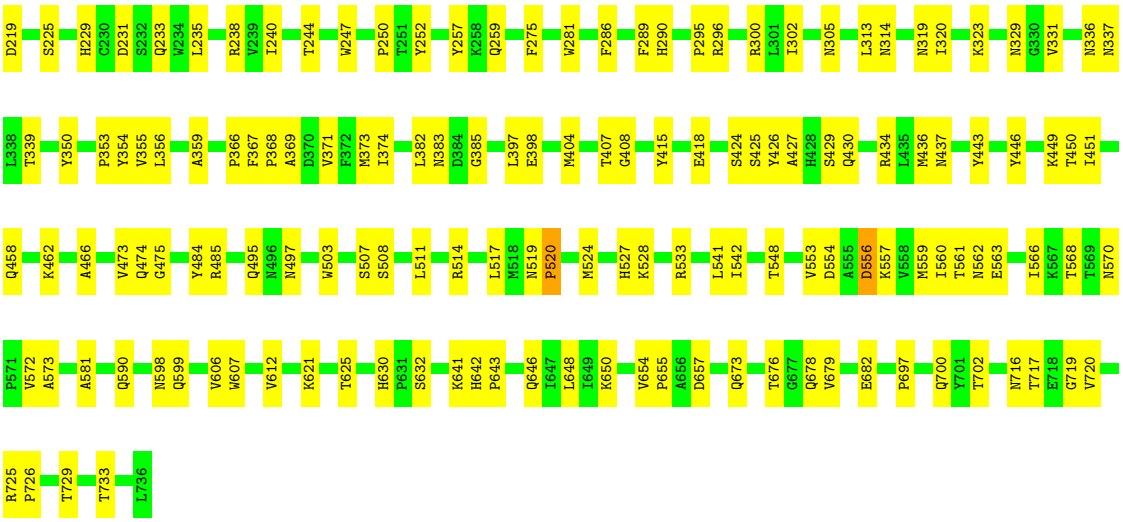
• Molecule 1: Capsid protein VP1

Chain i:



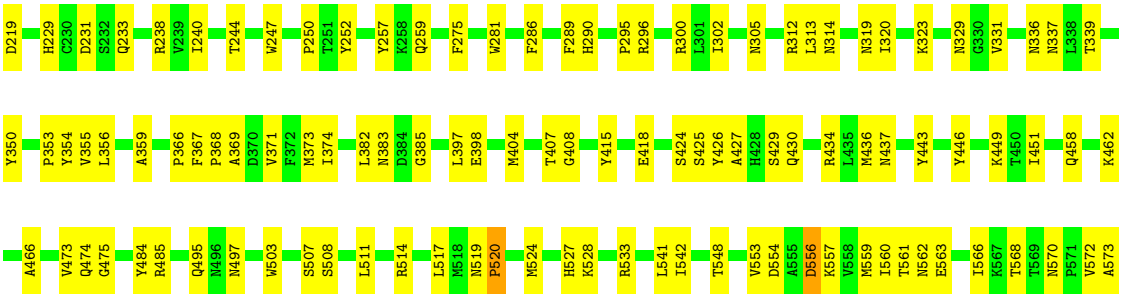
• Molecule 1: Capsid protein VP1

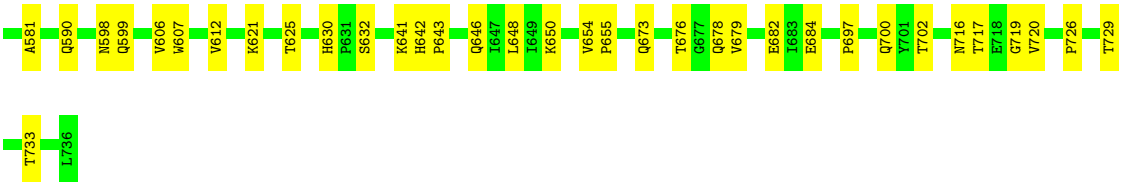
Chain j:



• Molecule 1: Capsid protein VP1

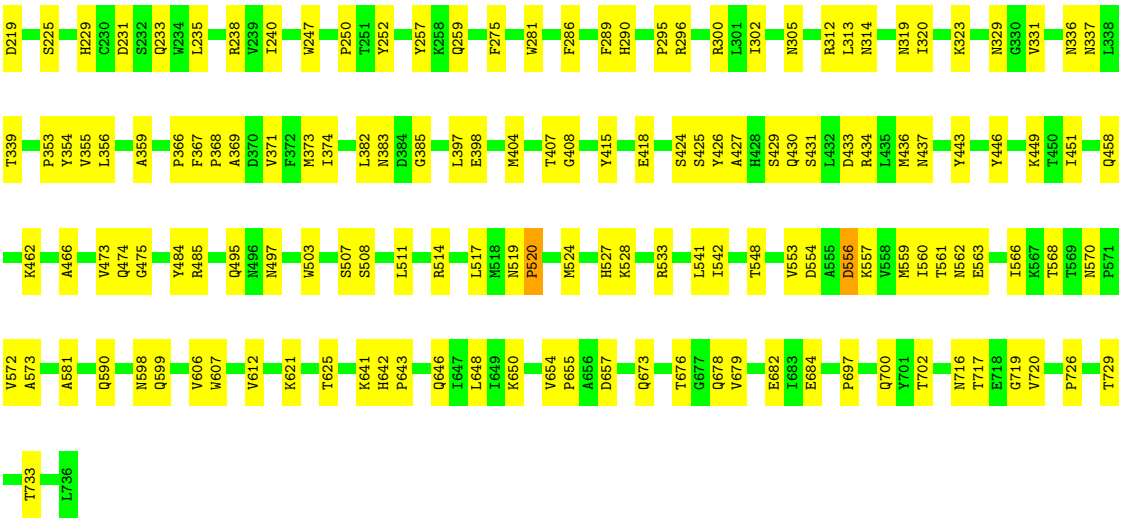
Chain k:





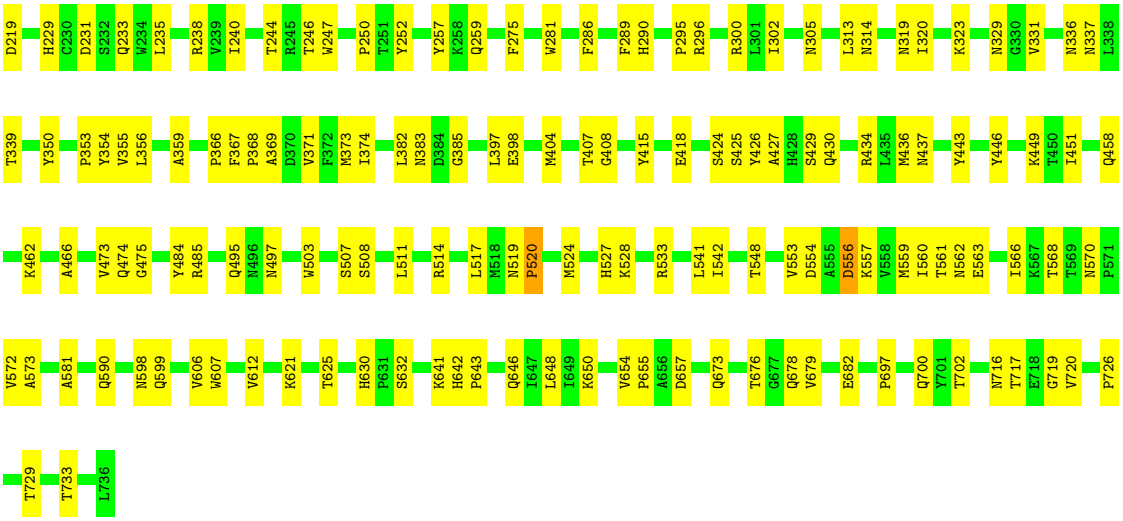
• Molecule 1: Capsid protein VP1

Chain l:



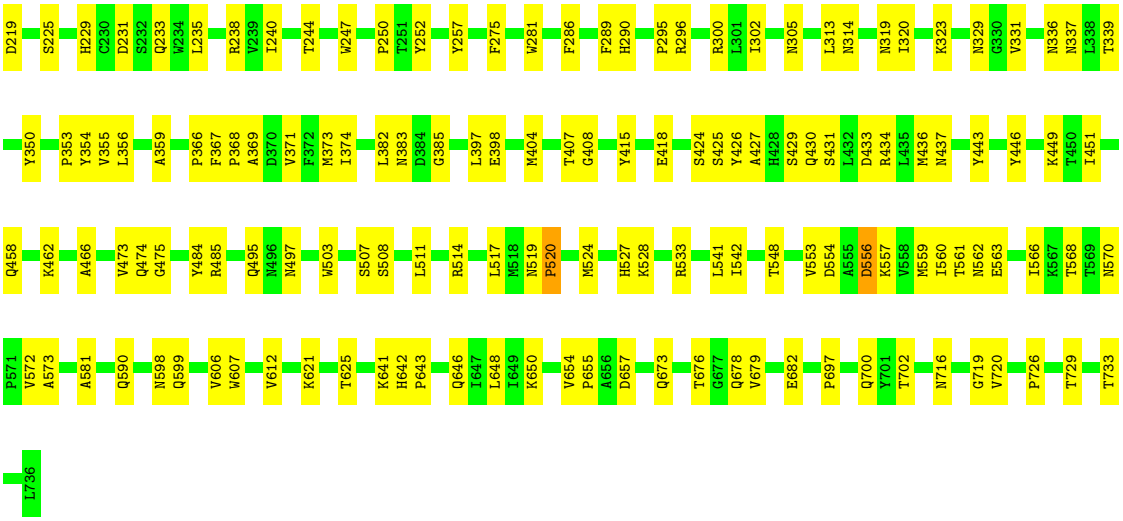
• Molecule 1: Capsid protein VP1

Chain m:



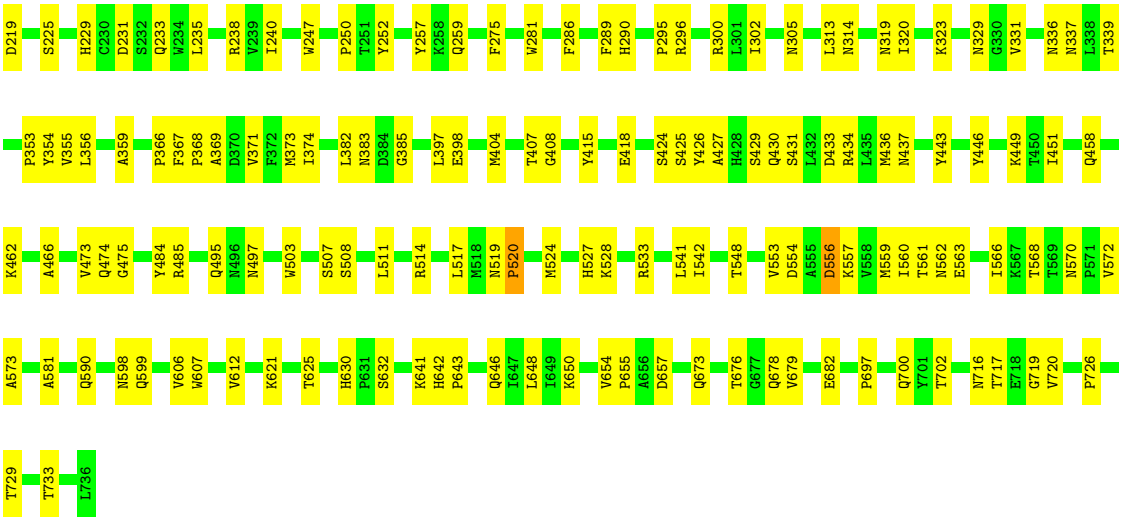
• Molecule 1: Capsid protein VP1

Chain n:



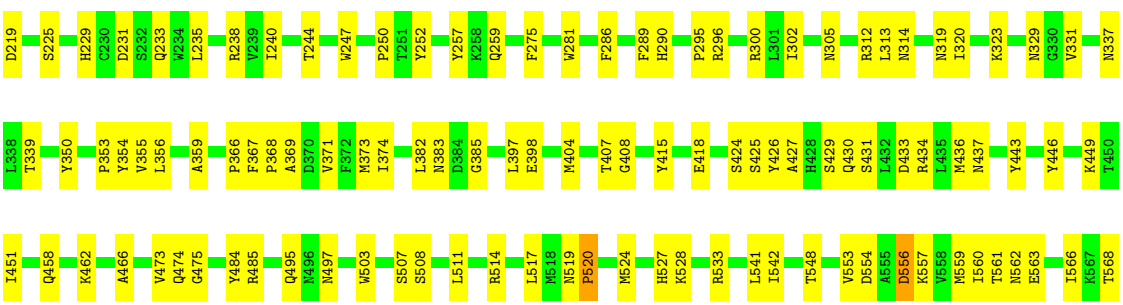
• Molecule 1: Capsid protein VP1

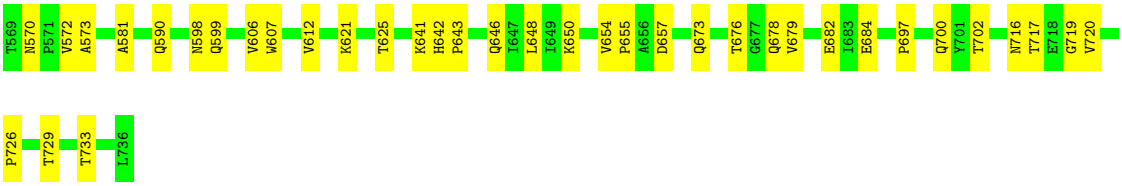
Chain o:



• Molecule 1: Capsid protein VP1

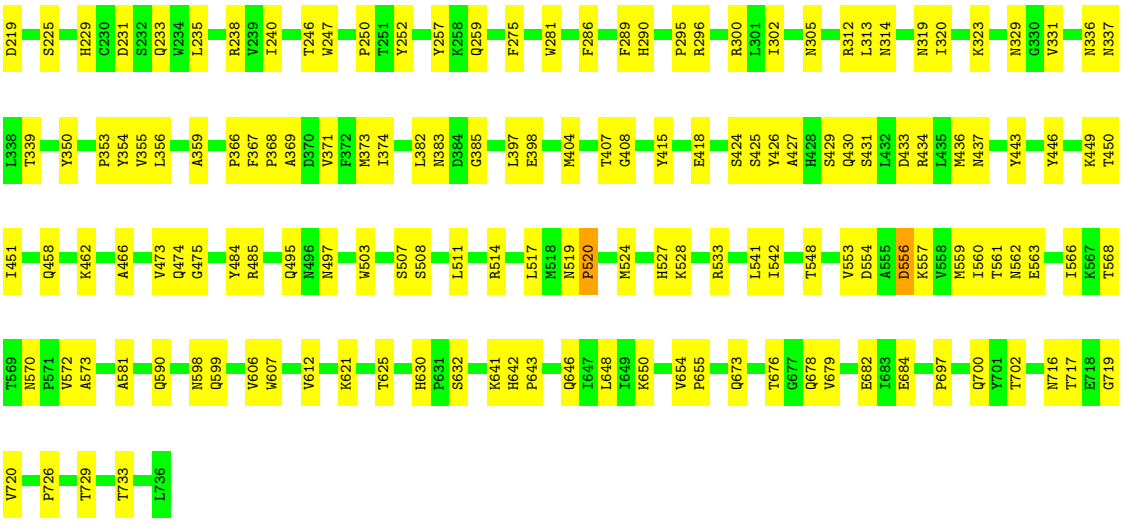
Chain p:





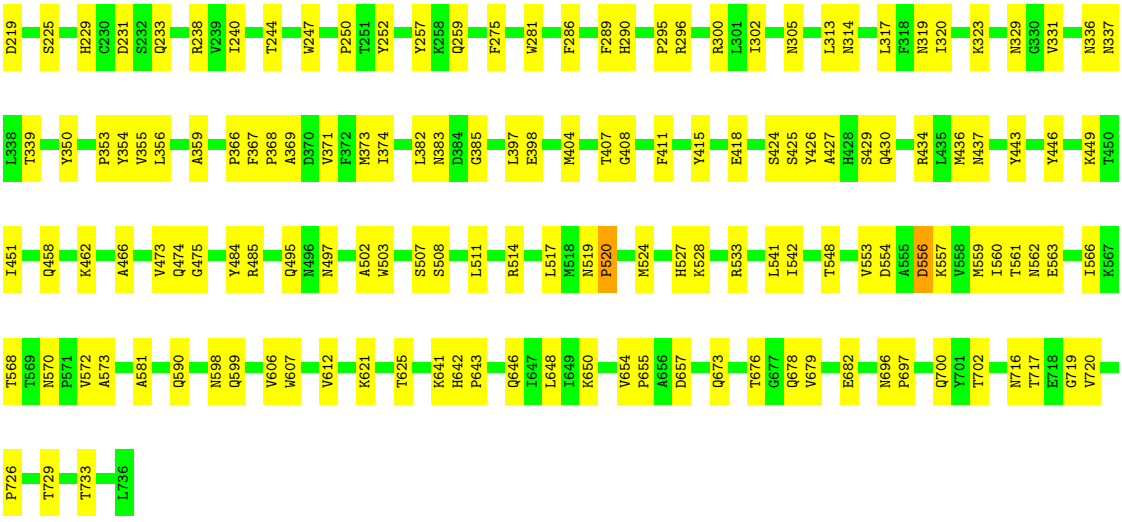
• Molecule 1: Capsid protein VP1

Chain q:



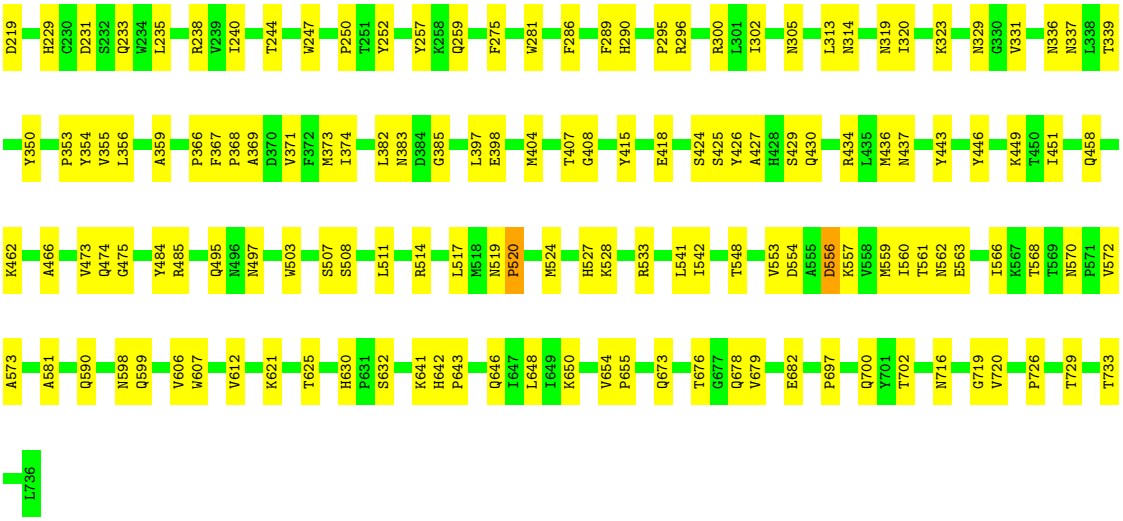
• Molecule 1: Capsid protein VP1

Chain r:



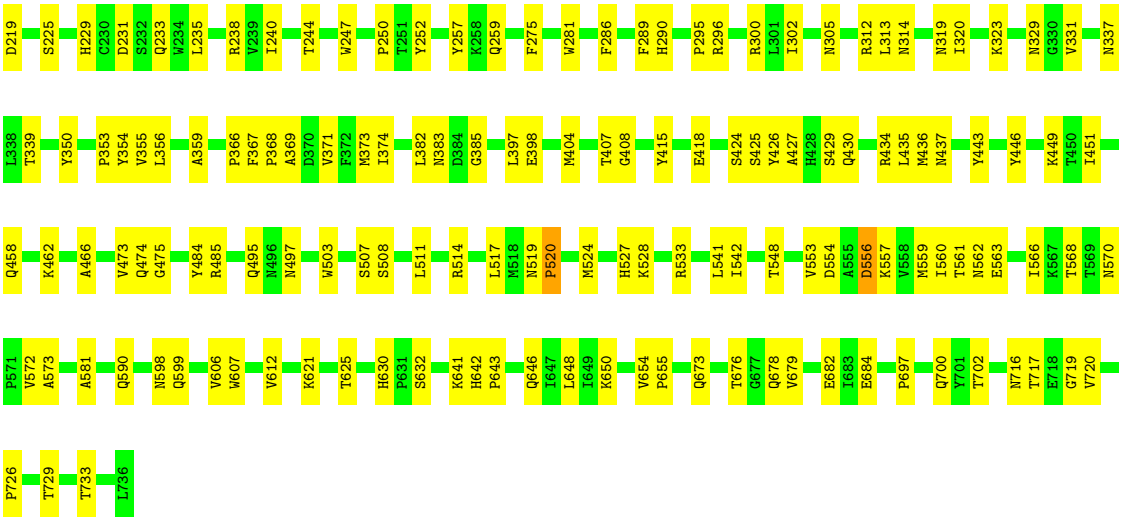
• Molecule 1: Capsid protein VP1

Chain s:



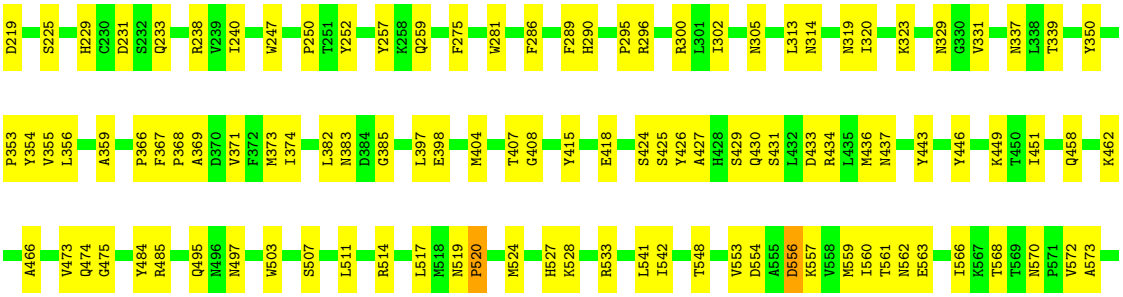
• Molecule 1: Capsid protein VP1

Chain t:



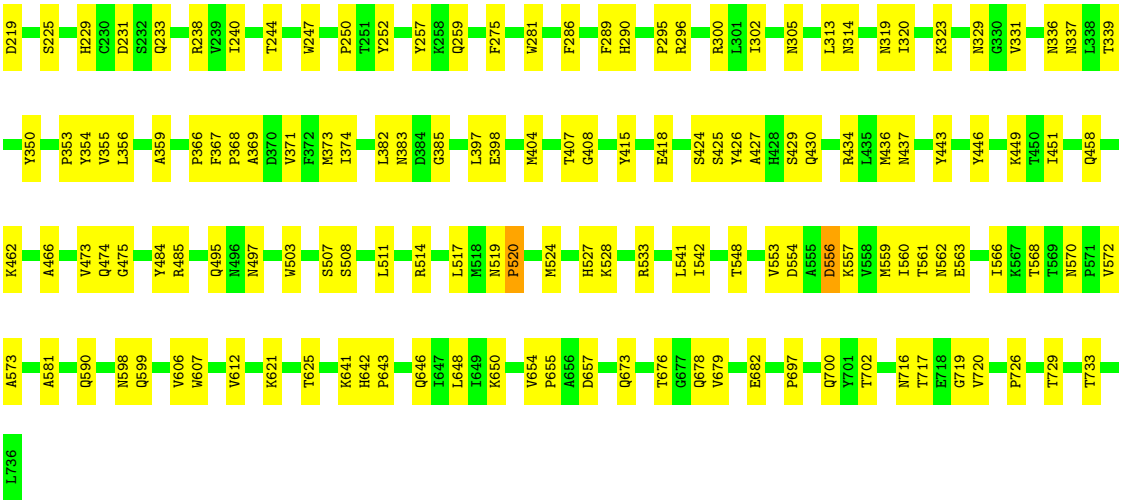
• Molecule 1: Capsid protein VP1

Chain u:



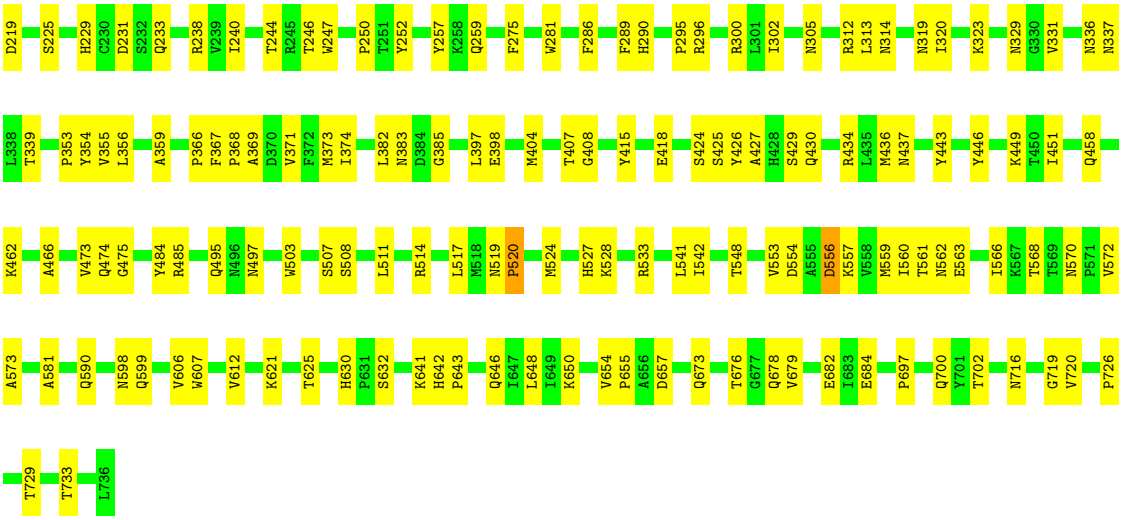
• Molecule 1: Capsid protein VP1

Chain v:



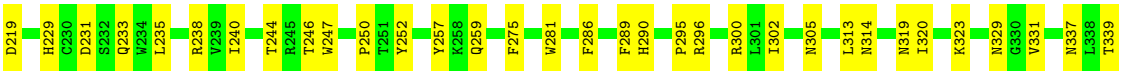
• Molecule 1: Capsid protein VP1

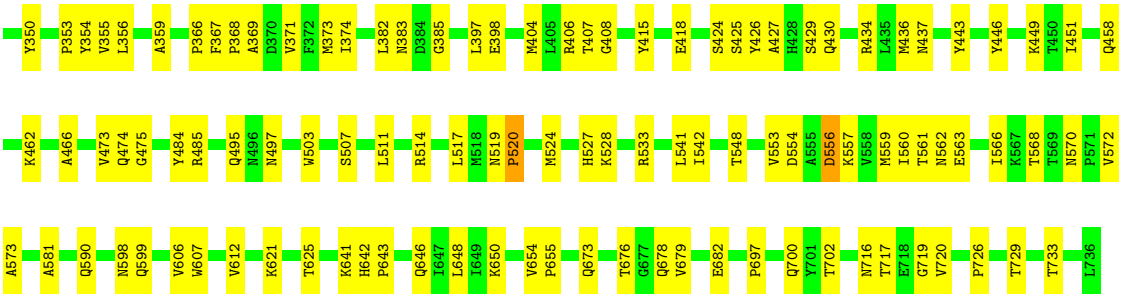
Chain w:



• Molecule 1: Capsid protein VP1

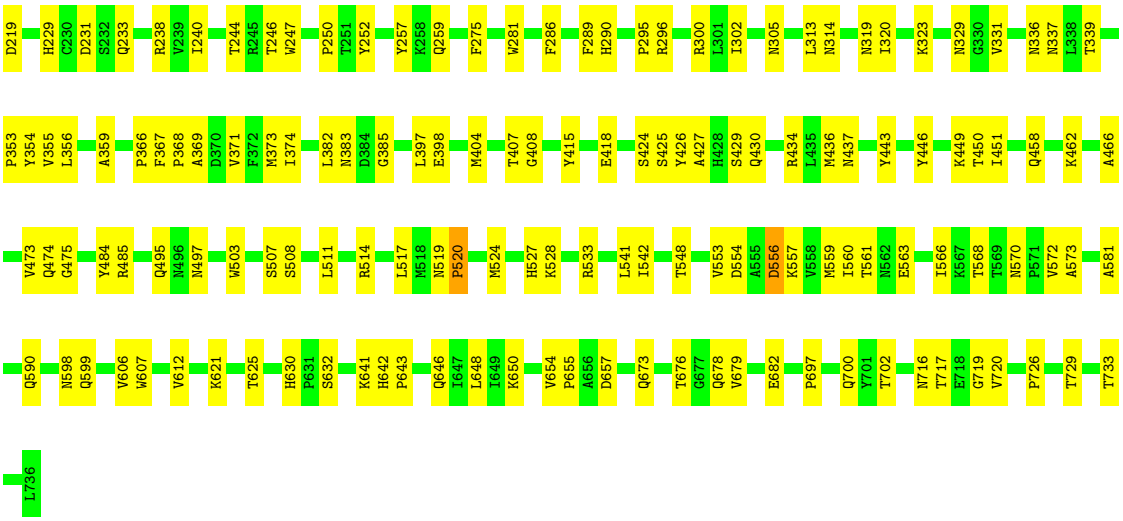
Chain x:





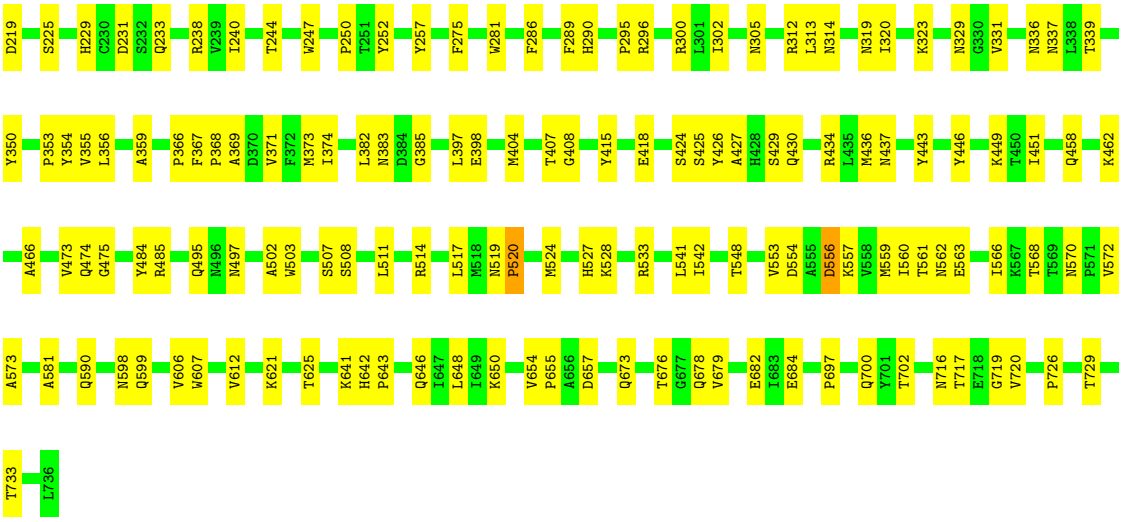
• Molecule 1: Capsid protein VP1

Chain y:



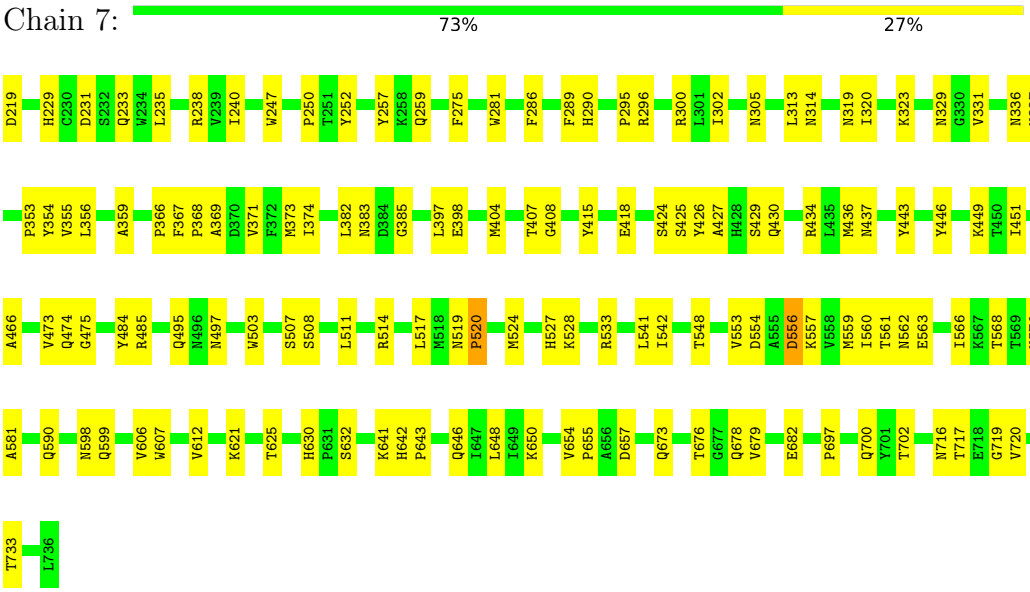
• Molecule 1: Capsid protein VP1

Chain z:



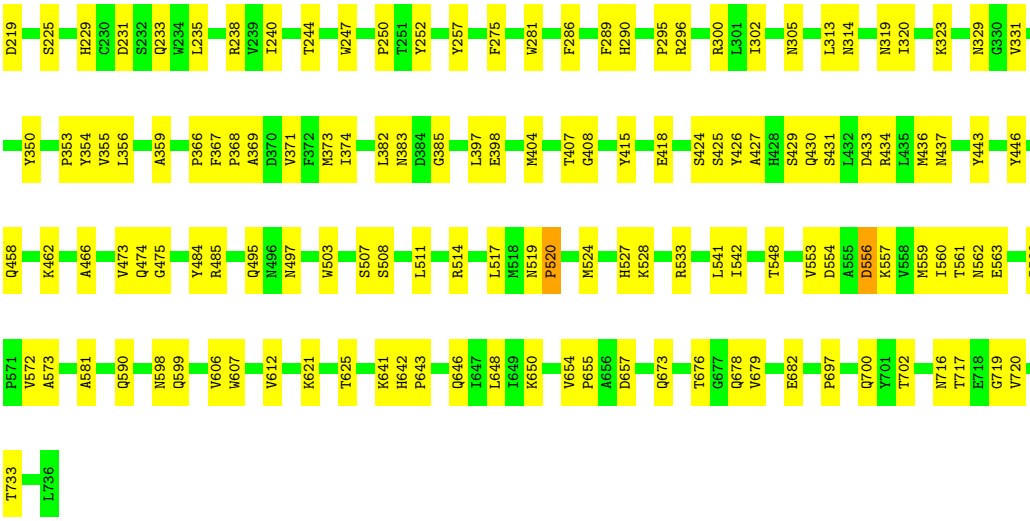
• Molecule 1: Capsid protein VP1

Chain 7:



• Molecule 1: Capsid protein VP1

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	110690	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	63	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	31.632	Depositor
Minimum map value	-14.541	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	603.648, 603.648, 603.648	wwPDB
Map dimensions	576, 576, 576	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.048, 1.048, 1.048	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	0.48	0/4256	0.55	0/5800
1	2	0.48	0/4256	0.55	0/5800
1	3	0.48	0/4256	0.55	0/5800
1	4	0.48	0/4256	0.55	0/5800
1	5	0.48	0/4256	0.55	0/5800
1	6	0.48	0/4256	0.55	0/5800
1	7	0.48	0/4256	0.55	0/5800
1	8	0.48	0/4256	0.55	0/5800
1	A	0.48	0/4256	0.55	0/5800
1	B	0.48	0/4256	0.55	0/5800
1	C	0.48	0/4256	0.55	0/5800
1	D	0.48	0/4256	0.55	0/5800
1	E	0.48	0/4256	0.55	0/5800
1	F	0.48	0/4256	0.55	0/5800
1	G	0.48	0/4256	0.55	0/5800
1	H	0.48	0/4256	0.55	0/5800
1	I	0.48	0/4256	0.55	0/5800
1	J	0.48	0/4256	0.55	0/5800
1	K	0.48	0/4256	0.55	0/5800
1	L	0.48	0/4256	0.55	0/5800
1	M	0.48	0/4256	0.55	0/5800
1	N	0.48	0/4256	0.55	0/5800
1	O	0.48	0/4256	0.55	0/5800
1	P	0.48	0/4256	0.55	0/5800
1	Q	0.48	0/4256	0.55	0/5800
1	R	0.48	0/4256	0.55	0/5800
1	S	0.48	0/4256	0.55	0/5800
1	T	0.48	0/4256	0.55	0/5800
1	U	0.48	0/4256	0.55	0/5800
1	V	0.48	0/4256	0.55	0/5800
1	W	0.48	0/4256	0.55	0/5800
1	X	0.48	0/4256	0.55	0/5800

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	Y	0.48	0/4256	0.55	0/5800
1	Z	0.48	0/4256	0.55	0/5800
1	a	0.48	0/4256	0.55	0/5800
1	b	0.48	0/4256	0.55	0/5800
1	c	0.48	0/4256	0.55	0/5800
1	d	0.48	0/4256	0.55	0/5800
1	e	0.48	0/4256	0.55	0/5800
1	f	0.48	0/4256	0.55	0/5800
1	g	0.48	0/4256	0.55	0/5800
1	h	0.48	0/4256	0.55	0/5800
1	i	0.48	0/4256	0.55	0/5800
1	j	0.48	0/4256	0.55	0/5800
1	k	0.48	0/4256	0.55	0/5800
1	l	0.48	0/4256	0.55	0/5800
1	m	0.48	0/4256	0.55	0/5800
1	n	0.48	0/4256	0.55	0/5800
1	o	0.48	0/4256	0.55	0/5800
1	p	0.48	0/4256	0.55	0/5800
1	q	0.48	0/4256	0.55	0/5800
1	r	0.48	0/4256	0.55	0/5800
1	s	0.48	0/4256	0.55	0/5800
1	t	0.48	0/4256	0.55	0/5800
1	u	0.48	0/4256	0.55	0/5800
1	v	0.48	0/4256	0.55	0/5800
1	w	0.48	0/4256	0.55	0/5800
1	x	0.48	0/4256	0.55	0/5800
1	y	0.48	0/4256	0.55	0/5800
1	z	0.48	0/4256	0.55	0/5800
All	All	0.48	0/255360	0.55	0/348000

There are no bond length outliers.

There are no bond angle outliers.

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	4131	0	3885	122	0
1	2	4131	0	3885	127	0
1	3	4131	0	3885	125	0
1	4	4131	0	3885	126	0
1	5	4131	0	3885	122	0
1	6	4131	0	3885	128	0
1	7	4131	0	3885	126	0
1	8	4131	0	3885	125	0
1	A	4131	0	3885	126	0
1	B	4131	0	3885	124	0
1	C	4131	0	3885	124	0
1	D	4131	0	3885	125	0
1	E	4131	0	3885	126	0
1	F	4131	0	3885	124	0
1	G	4131	0	3885	126	0
1	H	4131	0	3885	122	0
1	I	4131	0	3885	124	0
1	J	4131	0	3885	125	0
1	K	4131	0	3885	123	0
1	L	4131	0	3885	125	0
1	M	4131	0	3885	126	0
1	N	4131	0	3885	124	0
1	O	4131	0	3885	127	0
1	P	4131	0	3885	128	0
1	Q	4131	0	3885	127	0
1	R	4131	0	3885	124	0
1	S	4131	0	3885	126	0
1	T	4131	0	3885	125	0
1	U	4131	0	3885	126	0
1	V	4131	0	3885	127	0
1	W	4131	0	3885	124	0
1	X	4131	0	3885	124	0
1	Y	4131	0	3885	126	0
1	Z	4131	0	3885	127	0
1	a	4131	0	3885	128	0
1	b	4131	0	3885	127	0
1	c	4131	0	3885	122	0
1	d	4131	0	3885	128	0
1	e	4131	0	3885	124	0
1	f	4131	0	3885	124	0
1	g	4131	0	3885	124	0
1	h	4131	0	3885	126	0
1	i	4131	0	3885	126	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4131	0	3885	128	0
1	k	4131	0	3885	125	0
1	l	4131	0	3885	125	0
1	m	4131	0	3885	125	0
1	n	4131	0	3885	125	0
1	o	4131	0	3885	127	0
1	p	4131	0	3885	126	0
1	q	4131	0	3885	128	0
1	r	4131	0	3885	126	0
1	s	4131	0	3885	123	0
1	t	4131	0	3885	125	0
1	u	4131	0	3885	122	0
1	v	4131	0	3885	124	0
1	w	4131	0	3885	121	0
1	x	4131	0	3885	121	0
1	y	4131	0	3885	123	0
1	z	4131	0	3885	125	0
2	1	12	0	11	0	0
2	2	12	0	11	1	0
2	3	12	0	11	1	0
2	4	12	0	11	1	0
2	5	12	0	11	1	0
2	6	12	0	11	1	0
2	7	12	0	11	1	0
2	8	12	0	11	1	0
2	A	12	0	11	1	0
2	B	12	0	11	1	0
2	C	12	0	11	1	0
2	D	12	0	11	1	0
2	E	12	0	11	1	0
2	F	12	0	11	1	0
2	G	12	0	11	1	0
2	H	12	0	11	1	0
2	I	12	0	11	1	0
2	J	12	0	11	1	0
2	K	12	0	11	1	0
2	L	12	0	11	1	0
2	M	12	0	11	1	0
2	N	12	0	11	1	0
2	O	12	0	11	1	0
2	P	12	0	11	1	0
2	Q	12	0	11	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	R	12	0	11	1	0
2	S	12	0	11	1	0
2	T	12	0	11	1	0
2	U	12	0	11	1	0
2	V	12	0	11	1	0
2	W	12	0	11	1	0
2	X	12	0	11	1	0
2	Y	12	0	11	1	0
2	Z	12	0	11	1	0
2	a	12	0	11	1	0
2	b	12	0	11	1	0
2	c	12	0	11	1	0
2	d	12	0	11	1	0
2	e	12	0	11	1	0
2	f	12	0	11	1	0
2	g	12	0	11	1	0
2	h	12	0	11	1	0
2	i	12	0	11	1	0
2	j	12	0	11	1	0
2	k	12	0	11	1	0
2	l	12	0	11	1	0
2	m	12	0	11	1	0
2	n	12	0	11	1	0
2	o	12	0	11	1	0
2	p	12	0	11	1	0
2	q	12	0	11	1	0
2	r	12	0	11	1	0
2	s	12	0	11	1	0
2	t	12	0	11	1	0
2	u	12	0	11	1	0
2	v	12	0	11	1	0
2	w	12	0	11	0	0
2	x	12	0	11	1	0
2	y	12	0	11	1	0
2	z	12	0	11	1	0
All	All	248580	0	233760	5883	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 12.

All (5883) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:519:ASN:HB3	1:G:520:PRO:HD3	1.56	0.87
1:m:519:ASN:HB3	1:m:520:PRO:HD3	1.57	0.87
1:P:519:ASN:HB3	1:P:520:PRO:HD3	1.57	0.87
1:U:519:ASN:HB3	1:U:520:PRO:HD3	1.57	0.87
1:3:519:ASN:HB3	1:3:520:PRO:HD3	1.57	0.87
1:5:519:ASN:HB3	1:5:520:PRO:HD3	1.57	0.87
1:d:519:ASN:HB3	1:d:520:PRO:HD3	1.57	0.87
1:n:519:ASN:HB3	1:n:520:PRO:HD3	1.56	0.87
1:u:519:ASN:HB3	1:u:520:PRO:HD3	1.56	0.87
1:B:519:ASN:HB3	1:B:520:PRO:HD3	1.56	0.87
1:w:519:ASN:HB3	1:w:520:PRO:HD3	1.57	0.87
1:1:519:ASN:HB3	1:1:520:PRO:HD3	1.57	0.87
1:j:519:ASN:HB3	1:j:520:PRO:HD3	1.57	0.87
1:D:519:ASN:HB3	1:D:520:PRO:HD3	1.57	0.87
1:V:519:ASN:HB3	1:V:520:PRO:HD3	1.57	0.87
1:H:519:ASN:HB3	1:H:520:PRO:HD3	1.57	0.87
1:X:519:ASN:HB3	1:X:520:PRO:HD3	1.57	0.87
1:i:519:ASN:HB3	1:i:520:PRO:HD3	1.57	0.87
1:7:519:ASN:HB3	1:7:520:PRO:HD3	1.57	0.87
1:4:519:ASN:HB3	1:4:520:PRO:HD3	1.57	0.87
1:e:519:ASN:HB3	1:e:520:PRO:HD3	1.57	0.87
1:y:519:ASN:HB3	1:y:520:PRO:HD3	1.57	0.87
1:Y:519:ASN:HB3	1:Y:520:PRO:HD3	1.57	0.87
1:Z:519:ASN:HB3	1:Z:520:PRO:HD3	1.56	0.87
1:8:519:ASN:HB3	1:8:520:PRO:HD3	1.56	0.87
1:h:519:ASN:HB3	1:h:520:PRO:HD3	1.57	0.87
1:x:519:ASN:HB3	1:x:520:PRO:HD3	1.57	0.87
1:K:519:ASN:HB3	1:K:520:PRO:HD3	1.57	0.86
1:a:519:ASN:HB3	1:a:520:PRO:HD3	1.57	0.86
1:c:519:ASN:HB3	1:c:520:PRO:HD3	1.56	0.86
1:k:519:ASN:HB3	1:k:520:PRO:HD3	1.56	0.86
1:C:519:ASN:HB3	1:C:520:PRO:HD3	1.57	0.86
1:R:519:ASN:HB3	1:R:520:PRO:HD3	1.56	0.86
1:2:519:ASN:HB3	1:2:520:PRO:HD3	1.57	0.86
1:6:519:ASN:HB3	1:6:520:PRO:HD3	1.57	0.86
1:f:519:ASN:HB3	1:f:520:PRO:HD3	1.56	0.86
1:t:519:ASN:HB3	1:t:520:PRO:HD3	1.57	0.86
1:L:519:ASN:HB3	1:L:520:PRO:HD3	1.57	0.86
1:N:519:ASN:HB3	1:N:520:PRO:HD3	1.57	0.86
1:s:519:ASN:HB3	1:s:520:PRO:HD3	1.56	0.86
1:J:519:ASN:HB3	1:J:520:PRO:HD3	1.57	0.86
1:O:519:ASN:HB3	1:O:520:PRO:HD3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:519:ASN:HB3	1:p:520:PRO:HD3	1.56	0.86
1:v:519:ASN:HB3	1:v:520:PRO:HD3	1.57	0.86
1:F:519:ASN:HB3	1:F:520:PRO:HD3	1.56	0.86
1:A:519:ASN:HB3	1:A:520:PRO:HD3	1.57	0.86
1:I:519:ASN:HB3	1:I:520:PRO:HD3	1.56	0.85
1:M:519:ASN:HB3	1:M:520:PRO:HD3	1.56	0.85
1:o:519:ASN:HB3	1:o:520:PRO:HD3	1.56	0.85
1:E:519:ASN:HB3	1:E:520:PRO:HD3	1.56	0.85
1:S:519:ASN:HB3	1:S:520:PRO:HD3	1.57	0.85
1:b:519:ASN:HB3	1:b:520:PRO:HD3	1.57	0.85
1:q:519:ASN:HB3	1:q:520:PRO:HD3	1.56	0.85
1:l:519:ASN:HB3	1:l:520:PRO:HD3	1.57	0.85
1:g:519:ASN:HB3	1:g:520:PRO:HD3	1.57	0.85
1:T:519:ASN:HB3	1:T:520:PRO:HD3	1.56	0.84
1:r:519:ASN:HB3	1:r:520:PRO:HD3	1.56	0.84
1:Q:519:ASN:HB3	1:Q:520:PRO:HD3	1.56	0.84
1:W:519:ASN:HB3	1:W:520:PRO:HD3	1.57	0.83
1:z:519:ASN:HB3	1:z:520:PRO:HD3	1.57	0.83
1:B:484:TYR:H	1:B:524:MET:HE1	1.47	0.80
1:E:484:TYR:H	1:E:524:MET:HE1	1.47	0.80
1:L:484:TYR:H	1:L:524:MET:HE1	1.47	0.80
1:2:484:TYR:H	1:2:524:MET:HE1	1.47	0.80
1:t:484:TYR:H	1:t:524:MET:HE1	1.47	0.80
1:u:484:TYR:H	1:u:524:MET:HE1	1.47	0.80
1:6:484:TYR:H	1:6:524:MET:HE1	1.47	0.80
1:q:484:TYR:H	1:q:524:MET:HE1	1.47	0.80
1:x:484:TYR:H	1:x:524:MET:HE1	1.47	0.80
1:A:484:TYR:H	1:A:524:MET:HE1	1.47	0.79
1:3:484:TYR:H	1:3:524:MET:HE1	1.47	0.79
1:K:484:TYR:H	1:K:524:MET:HE1	1.47	0.79
1:T:484:TYR:H	1:T:524:MET:HE1	1.47	0.79
1:4:484:TYR:H	1:4:524:MET:HE1	1.47	0.79
1:5:484:TYR:H	1:5:524:MET:HE1	1.47	0.79
1:h:484:TYR:H	1:h:524:MET:HE1	1.47	0.79
1:g:484:TYR:H	1:g:524:MET:HE1	1.47	0.79
1:p:484:TYR:H	1:p:524:MET:HE1	1.47	0.79
1:y:484:TYR:H	1:y:524:MET:HE1	1.47	0.79
1:H:484:TYR:H	1:H:524:MET:HE1	1.47	0.79
1:Y:484:TYR:H	1:Y:524:MET:HE1	1.47	0.79
1:D:484:TYR:H	1:D:524:MET:HE1	1.47	0.79
1:e:484:TYR:H	1:e:524:MET:HE1	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:484:TYR:H	1:7:524:MET:HE1	1.47	0.79
1:J:484:TYR:H	1:J:524:MET:HE1	1.47	0.79
1:W:484:TYR:H	1:W:524:MET:HE1	1.47	0.79
1:C:484:TYR:H	1:C:524:MET:HE1	1.47	0.78
1:k:484:TYR:H	1:k:524:MET:HE1	1.47	0.78
1:z:484:TYR:H	1:z:524:MET:HE1	1.47	0.78
1:Q:484:TYR:H	1:Q:524:MET:HE1	1.47	0.78
1:V:484:TYR:H	1:V:524:MET:HE1	1.47	0.78
1:v:484:TYR:H	1:v:524:MET:HE1	1.47	0.78
1:R:484:TYR:H	1:R:524:MET:HE1	1.47	0.78
1:a:484:TYR:H	1:a:524:MET:HE1	1.47	0.78
1:G:484:TYR:H	1:G:524:MET:HE1	1.47	0.78
1:n:484:TYR:H	1:n:524:MET:HE1	1.47	0.78
1:r:484:TYR:H	1:r:524:MET:HE1	1.47	0.78
1:N:484:TYR:H	1:N:524:MET:HE1	1.47	0.78
1:f:484:TYR:H	1:f:524:MET:HE1	1.47	0.78
1:j:484:TYR:H	1:j:524:MET:HE1	1.47	0.78
1:O:484:TYR:H	1:O:524:MET:HE1	1.47	0.78
1:c:484:TYR:H	1:c:524:MET:HE1	1.47	0.78
1:U:484:TYR:H	1:U:524:MET:HE1	1.47	0.78
1:b:484:TYR:H	1:b:524:MET:HE1	1.47	0.77
1:M:484:TYR:H	1:M:524:MET:HE1	1.47	0.77
1:P:484:TYR:H	1:P:524:MET:HE1	1.47	0.77
1:d:484:TYR:H	1:d:524:MET:HE1	1.47	0.77
1:m:484:TYR:H	1:m:524:MET:HE1	1.47	0.77
1:X:484:TYR:H	1:X:524:MET:HE1	1.47	0.77
1:1:484:TYR:H	1:1:524:MET:HE1	1.47	0.77
1:o:484:TYR:H	1:o:524:MET:HE1	1.47	0.77
1:8:484:TYR:H	1:8:524:MET:HE1	1.47	0.77
1:i:484:TYR:H	1:i:524:MET:HE1	1.47	0.77
1:s:484:TYR:H	1:s:524:MET:HE1	1.47	0.77
1:w:484:TYR:H	1:w:524:MET:HE1	1.47	0.77
1:F:484:TYR:H	1:F:524:MET:HE1	1.47	0.77
1:I:484:TYR:H	1:I:524:MET:HE1	1.47	0.77
1:Z:484:TYR:H	1:Z:524:MET:HE1	1.47	0.77
1:S:484:TYR:H	1:S:524:MET:HE1	1.47	0.77
1:l:484:TYR:H	1:l:524:MET:HE1	1.47	0.76
1:E:355:VAL:H	1:E:646:GLN:NE2	1.85	0.75
1:Q:355:VAL:H	1:Q:646:GLN:NE2	1.85	0.75
1:X:355:VAL:H	1:X:646:GLN:NE2	1.85	0.75
1:i:355:VAL:H	1:i:646:GLN:NE2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:355:VAL:H	1:k:646:GLN:NE2	1.85	0.75
1:q:355:VAL:H	1:q:646:GLN:NE2	1.85	0.75
1:r:355:VAL:H	1:r:646:GLN:NE2	1.85	0.75
1:w:355:VAL:H	1:w:646:GLN:NE2	1.85	0.75
1:A:383:ASN:OD1	1:A:514:ARG:NH1	2.20	0.75
1:B:355:VAL:H	1:B:646:GLN:NE2	1.85	0.75
1:R:355:VAL:H	1:R:646:GLN:NE2	1.85	0.75
1:V:383:ASN:OD1	1:V:514:ARG:NH1	2.20	0.75
1:1:355:VAL:H	1:1:646:GLN:NE2	1.85	0.75
1:4:355:VAL:H	1:4:646:GLN:NE2	1.85	0.75
1:h:355:VAL:H	1:h:646:GLN:NE2	1.85	0.75
1:j:383:ASN:OD1	1:j:514:ARG:NH1	2.20	0.75
1:n:355:VAL:H	1:n:646:GLN:NE2	1.85	0.75
1:p:383:ASN:OD1	1:p:514:ARG:NH1	2.20	0.75
1:u:355:VAL:H	1:u:646:GLN:NE2	1.85	0.75
1:G:355:VAL:H	1:G:646:GLN:NE2	1.85	0.75
1:K:355:VAL:H	1:K:646:GLN:NE2	1.85	0.75
1:Z:383:ASN:OD1	1:Z:514:ARG:NH1	2.20	0.75
1:x:355:VAL:H	1:x:646:GLN:NE2	1.85	0.75
1:8:383:ASN:OD1	1:8:514:ARG:NH1	2.20	0.75
1:E:383:ASN:OD1	1:E:514:ARG:NH1	2.20	0.75
1:P:383:ASN:OD1	1:P:514:ARG:NH1	2.20	0.75
1:S:383:ASN:OD1	1:S:514:ARG:NH1	2.20	0.75
1:U:383:ASN:OD1	1:U:514:ARG:NH1	2.20	0.75
1:d:383:ASN:OD1	1:d:514:ARG:NH1	2.20	0.75
1:l:383:ASN:OD1	1:l:514:ARG:NH1	2.20	0.75
1:n:383:ASN:OD1	1:n:514:ARG:NH1	2.20	0.75
1:G:383:ASN:OD1	1:G:514:ARG:NH1	2.20	0.75
1:T:355:VAL:H	1:T:646:GLN:NE2	1.85	0.75
1:g:355:VAL:H	1:g:646:GLN:NE2	1.85	0.75
1:m:383:ASN:OD1	1:m:514:ARG:NH1	2.20	0.75
1:q:383:ASN:OD1	1:q:514:ARG:NH1	2.20	0.75
1:s:355:VAL:H	1:s:646:GLN:NE2	1.85	0.75
1:F:355:VAL:H	1:F:646:GLN:NE2	1.85	0.74
1:k:383:ASN:OD1	1:k:514:ARG:NH1	2.20	0.74
1:P:355:VAL:H	1:P:646:GLN:NE2	1.85	0.74
1:R:383:ASN:OD1	1:R:514:ARG:NH1	2.20	0.74
1:a:355:VAL:H	1:a:646:GLN:NE2	1.85	0.74
1:d:355:VAL:H	1:d:646:GLN:NE2	1.85	0.74
1:r:383:ASN:OD1	1:r:514:ARG:NH1	2.20	0.74
1:y:355:VAL:H	1:y:646:GLN:NE2	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:VAL:H	1:C:646:GLN:NE2	1.85	0.74
1:H:355:VAL:H	1:H:646:GLN:NE2	1.85	0.74
1:M:355:VAL:H	1:M:646:GLN:NE2	1.85	0.74
1:Q:383:ASN:OD1	1:Q:514:ARG:NH1	2.20	0.74
1:V:355:VAL:H	1:V:646:GLN:NE2	1.85	0.74
1:2:383:ASN:OD1	1:2:514:ARG:NH1	2.20	0.74
1:b:355:VAL:H	1:b:646:GLN:NE2	1.85	0.74
1:f:355:VAL:H	1:f:646:GLN:NE2	1.85	0.74
1:C:383:ASN:OD1	1:C:514:ARG:NH1	2.20	0.74
1:O:355:VAL:H	1:O:646:GLN:NE2	1.85	0.74
1:W:383:ASN:OD1	1:W:514:ARG:NH1	2.20	0.74
1:j:355:VAL:H	1:j:646:GLN:NE2	1.85	0.74
1:z:383:ASN:OD1	1:z:514:ARG:NH1	2.20	0.74
1:L:383:ASN:OD1	1:L:514:ARG:NH1	2.20	0.74
1:6:383:ASN:OD1	1:6:514:ARG:NH1	2.20	0.74
1:a:383:ASN:OD1	1:a:514:ARG:NH1	2.20	0.74
1:c:383:ASN:OD1	1:c:514:ARG:NH1	2.20	0.74
1:i:383:ASN:OD1	1:i:514:ARG:NH1	2.20	0.74
1:t:383:ASN:OD1	1:t:514:ARG:NH1	2.20	0.74
1:z:355:VAL:H	1:z:646:GLN:NE2	1.85	0.74
1:N:383:ASN:OD1	1:N:514:ARG:NH1	2.20	0.74
1:W:355:VAL:H	1:W:646:GLN:NE2	1.85	0.74
1:X:383:ASN:OD1	1:X:514:ARG:NH1	2.20	0.74
1:A:355:VAL:H	1:A:646:GLN:NE2	1.85	0.74
1:S:355:VAL:H	1:S:646:GLN:NE2	1.85	0.74
1:U:355:VAL:H	1:U:646:GLN:NE2	1.85	0.74
1:g:383:ASN:OD1	1:g:514:ARG:NH1	2.20	0.74
1:l:355:VAL:H	1:l:646:GLN:NE2	1.85	0.74
1:m:355:VAL:H	1:m:646:GLN:NE2	1.85	0.74
1:p:355:VAL:H	1:p:646:GLN:NE2	1.85	0.74
1:D:383:ASN:OD1	1:D:514:ARG:NH1	2.20	0.74
1:I:355:VAL:H	1:I:646:GLN:NE2	1.85	0.74
1:M:383:ASN:OD1	1:M:514:ARG:NH1	2.20	0.74
1:c:355:VAL:H	1:c:646:GLN:NE2	1.85	0.74
1:o:355:VAL:H	1:o:646:GLN:NE2	1.85	0.74
1:T:383:ASN:OD1	1:T:514:ARG:NH1	2.20	0.74
1:e:383:ASN:OD1	1:e:514:ARG:NH1	2.20	0.74
1:b:383:ASN:OD1	1:b:514:ARG:NH1	2.20	0.74
1:B:383:ASN:OD1	1:B:514:ARG:NH1	2.20	0.73
1:K:383:ASN:OD1	1:K:514:ARG:NH1	2.20	0.73
1:N:355:VAL:H	1:N:646:GLN:NE2	1.85	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:355:VAL:H	1:Y:646:GLN:NE2	1.85	0.73
1:f:383:ASN:OD1	1:f:514:ARG:NH1	2.20	0.73
1:O:383:ASN:OD1	1:O:514:ARG:NH1	2.20	0.73
1:x:383:ASN:OD1	1:x:514:ARG:NH1	2.20	0.73
1:y:383:ASN:OD1	1:y:514:ARG:NH1	2.20	0.73
1:H:383:ASN:OD1	1:H:514:ARG:NH1	2.20	0.73
1:u:383:ASN:OD1	1:u:514:ARG:NH1	2.20	0.73
1:v:355:VAL:H	1:v:646:GLN:NE2	1.85	0.73
1:7:355:VAL:H	1:7:646:GLN:NE2	1.85	0.73
1:2:355:VAL:H	1:2:646:GLN:NE2	1.85	0.73
1:J:355:VAL:H	1:J:646:GLN:NE2	1.85	0.73
1:L:355:VAL:H	1:L:646:GLN:NE2	1.85	0.73
1:6:355:VAL:H	1:6:646:GLN:NE2	1.85	0.73
1:8:355:VAL:H	1:8:646:GLN:NE2	1.85	0.73
1:I:383:ASN:OD1	1:I:514:ARG:NH1	2.20	0.73
1:Z:355:VAL:H	1:Z:646:GLN:NE2	1.85	0.73
1:3:355:VAL:H	1:3:646:GLN:NE2	1.85	0.73
1:t:355:VAL:H	1:t:646:GLN:NE2	1.85	0.73
1:v:383:ASN:OD1	1:v:514:ARG:NH1	2.20	0.73
1:5:355:VAL:H	1:5:646:GLN:NE2	1.85	0.73
1:e:355:VAL:H	1:e:646:GLN:NE2	1.85	0.73
1:o:383:ASN:OD1	1:o:514:ARG:NH1	2.20	0.73
1:s:383:ASN:OD1	1:s:514:ARG:NH1	2.20	0.73
1:D:355:VAL:H	1:D:646:GLN:NE2	1.85	0.73
1:J:383:ASN:OD1	1:J:514:ARG:NH1	2.20	0.73
1:h:383:ASN:OD1	1:h:514:ARG:NH1	2.20	0.73
1:w:383:ASN:OD1	1:w:514:ARG:NH1	2.20	0.73
1:F:383:ASN:OD1	1:F:514:ARG:NH1	2.20	0.73
1:1:383:ASN:OD1	1:1:514:ARG:NH1	2.20	0.73
1:3:383:ASN:OD1	1:3:514:ARG:NH1	2.20	0.73
1:Y:383:ASN:OD1	1:Y:514:ARG:NH1	2.20	0.72
1:4:383:ASN:OD1	1:4:514:ARG:NH1	2.20	0.72
1:5:383:ASN:OD1	1:5:514:ARG:NH1	2.20	0.72
1:F:554:ASP:OD1	1:Q:462:LYS:NZ	2.22	0.72
1:7:383:ASN:OD1	1:7:514:ARG:NH1	2.20	0.72
1:k:554:ASP:OD1	1:m:462:LYS:NZ	2.22	0.72
1:R:554:ASP:OD1	1:U:462:LYS:NZ	2.22	0.72
1:2:397:LEU:HD13	1:2:648:LEU:HD23	1.73	0.71
1:6:397:LEU:HD13	1:6:648:LEU:HD23	1.73	0.71
1:L:397:LEU:HD13	1:L:648:LEU:HD23	1.73	0.71
1:O:554:ASP:OD1	1:h:462:LYS:NZ	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:397:LEU:HD13	1:X:648:LEU:HD23	1.73	0.71
1:i:397:LEU:HD13	1:i:648:LEU:HD23	1.73	0.71
1:t:397:LEU:HD13	1:t:648:LEU:HD23	1.73	0.71
1:O:397:LEU:HD13	1:O:648:LEU:HD23	1.73	0.71
1:Y:397:LEU:HD13	1:Y:648:LEU:HD23	1.73	0.71
1:g:397:LEU:HD13	1:g:648:LEU:HD23	1.73	0.71
1:7:397:LEU:HD13	1:7:648:LEU:HD23	1.73	0.71
1:C:462:LYS:NZ	1:2:554:ASP:OD1	2.22	0.71
1:T:397:LEU:HD13	1:T:648:LEU:HD23	1.73	0.71
1:U:397:LEU:HD13	1:U:648:LEU:HD23	1.73	0.71
1:6:554:ASP:OD1	1:a:462:LYS:NZ	2.22	0.71
1:f:397:LEU:HD13	1:f:648:LEU:HD23	1.73	0.71
1:j:397:LEU:HD13	1:j:648:LEU:HD23	1.73	0.71
1:I:397:LEU:HD13	1:I:648:LEU:HD23	1.73	0.71
1:R:397:LEU:HD13	1:R:648:LEU:HD23	1.73	0.71
1:V:397:LEU:HD13	1:V:648:LEU:HD23	1.73	0.71
1:k:397:LEU:HD13	1:k:648:LEU:HD23	1.73	0.71
1:m:397:LEU:HD13	1:m:648:LEU:HD23	1.73	0.71
1:y:554:ASP:OD1	1:7:462:LYS:NZ	2.22	0.71
1:D:397:LEU:HD13	1:D:648:LEU:HD23	1.73	0.71
1:G:397:LEU:HD13	1:G:648:LEU:HD23	1.73	0.71
1:c:462:LYS:NZ	1:d:554:ASP:OD1	2.22	0.71
1:e:397:LEU:HD13	1:e:648:LEU:HD23	1.73	0.71
1:o:397:LEU:HD13	1:o:648:LEU:HD23	1.73	0.71
1:H:554:ASP:OD1	1:Y:462:LYS:NZ	2.22	0.71
1:Z:462:LYS:NZ	1:x:554:ASP:OD1	2.22	0.71
1:n:397:LEU:HD13	1:n:648:LEU:HD23	1.73	0.71
1:p:397:LEU:HD13	1:p:648:LEU:HD23	1.73	0.71
1:3:397:LEU:HD13	1:3:648:LEU:HD23	1.73	0.71
1:o:462:LYS:NZ	1:p:554:ASP:OD1	2.22	0.71
1:A:397:LEU:HD13	1:A:648:LEU:HD23	1.73	0.70
1:A:554:ASP:OD1	1:I:462:LYS:NZ	2.22	0.70
1:K:554:ASP:OD1	1:8:462:LYS:NZ	2.22	0.70
1:Z:397:LEU:HD13	1:Z:648:LEU:HD23	1.73	0.70
1:Z:554:ASP:OD1	1:w:462:LYS:NZ	2.22	0.70
1:3:462:LYS:NZ	1:i:554:ASP:OD1	2.22	0.70
1:5:397:LEU:HD13	1:5:648:LEU:HD23	1.73	0.70
1:w:397:LEU:HD13	1:w:648:LEU:HD23	1.73	0.70
1:8:397:LEU:HD13	1:8:648:LEU:HD23	1.73	0.70
1:K:462:LYS:NZ	1:1:554:ASP:OD1	2.22	0.70
1:1:462:LYS:NZ	1:8:554:ASP:OD1	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:462:LYS:NZ	1:P:554:ASP:OD1	2.22	0.70
1:X:554:ASP:OD1	1:5:462:LYS:NZ	2.22	0.70
1:1:397:LEU:HD13	1:1:648:LEU:HD23	1.73	0.70
1:q:462:LYS:NZ	1:r:554:ASP:OD1	2.22	0.70
1:w:554:ASP:OD1	1:x:462:LYS:NZ	2.22	0.70
1:d:397:LEU:HD13	1:d:648:LEU:HD23	1.73	0.70
1:z:462:LYS:NZ	1:7:554:ASP:OD1	2.22	0.70
1:C:397:LEU:HD13	1:C:648:LEU:HD23	1.73	0.70
1:E:462:LYS:NZ	1:Q:554:ASP:OD1	2.22	0.70
1:P:397:LEU:HD13	1:P:648:LEU:HD23	1.73	0.70
1:a:397:LEU:HD13	1:a:648:LEU:HD23	1.73	0.70
1:z:397:LEU:HD13	1:z:648:LEU:HD23	1.73	0.70
1:S:397:LEU:HD13	1:S:648:LEU:HD23	1.73	0.70
1:W:397:LEU:HD13	1:W:648:LEU:HD23	1.73	0.70
1:W:462:LYS:NZ	1:Y:554:ASP:OD1	2.22	0.70
1:B:397:LEU:HD13	1:B:648:LEU:HD23	1.73	0.70
1:O:462:LYS:NZ	1:g:554:ASP:OD1	2.22	0.70
1:l:397:LEU:HD13	1:l:648:LEU:HD23	1.73	0.70
1:u:397:LEU:HD13	1:u:648:LEU:HD23	1.73	0.70
1:T:554:ASP:OD1	1:f:462:LYS:NZ	2.22	0.69
1:b:397:LEU:HD13	1:b:648:LEU:HD23	1.73	0.69
1:v:397:LEU:HD13	1:v:648:LEU:HD23	1.73	0.69
1:M:397:LEU:HD13	1:M:648:LEU:HD23	1.73	0.69
1:Q:397:LEU:HD13	1:Q:648:LEU:HD23	1.73	0.69
1:y:462:LYS:NZ	1:z:554:ASP:OD1	2.22	0.69
1:H:462:LYS:NZ	1:W:554:ASP:OD1	2.22	0.69
1:J:397:LEU:HD13	1:J:648:LEU:HD23	1.73	0.69
1:K:397:LEU:HD13	1:K:648:LEU:HD23	1.73	0.69
1:r:397:LEU:HD13	1:r:648:LEU:HD23	1.73	0.69
1:x:397:LEU:HD13	1:x:648:LEU:HD23	1.73	0.69
1:T:462:LYS:NZ	1:4:554:ASP:OD1	2.22	0.69
1:4:397:LEU:HD13	1:4:648:LEU:HD23	1.73	0.69
1:h:397:LEU:HD13	1:h:648:LEU:HD23	1.73	0.69
1:d:462:LYS:NZ	1:e:554:ASP:OD1	2.22	0.69
1:q:554:ASP:OD1	1:s:462:LYS:NZ	2.22	0.69
1:E:397:LEU:HD13	1:E:648:LEU:HD23	1.73	0.69
1:E:554:ASP:OD1	1:F:462:LYS:NZ	2.22	0.69
1:N:397:LEU:HD13	1:N:648:LEU:HD23	1.73	0.69
1:g:462:LYS:NZ	1:h:554:ASP:OD1	2.22	0.69
1:B:554:ASP:OD1	1:L:462:LYS:NZ	2.22	0.69
1:D:554:ASP:OD1	1:P:462:LYS:NZ	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:397:LEU:HD13	1:F:648:LEU:HD23	1.73	0.69
1:H:397:LEU:HD13	1:H:648:LEU:HD23	1.73	0.69
1:c:397:LEU:HD13	1:c:648:LEU:HD23	1.73	0.69
1:q:397:LEU:HD13	1:q:648:LEU:HD23	1.73	0.69
1:y:397:LEU:HD13	1:y:648:LEU:HD23	1.73	0.69
1:t:462:LYS:NZ	1:u:554:ASP:OD1	2.22	0.69
1:s:397:LEU:HD13	1:s:648:LEU:HD23	1.73	0.69
1:V:554:ASP:OD1	1:X:462:LYS:NZ	2.22	0.68
1:V:462:LYS:NZ	1:5:554:ASP:OD1	2.22	0.68
1:i:462:LYS:NZ	1:j:554:ASP:OD1	2.22	0.68
1:3:554:ASP:OD1	1:j:462:LYS:NZ	2.22	0.68
1:h:247:TRP:CD1	1:h:679:VAL:HG23	2.29	0.68
1:C:247:TRP:CD1	1:C:679:VAL:HG23	2.29	0.68
1:M:247:TRP:CD1	1:M:679:VAL:HG23	2.29	0.68
1:R:247:TRP:CD1	1:R:679:VAL:HG23	2.29	0.68
1:4:247:TRP:CD1	1:4:679:VAL:HG23	2.29	0.68
1:a:247:TRP:CD1	1:a:679:VAL:HG23	2.29	0.68
1:k:247:TRP:CD1	1:k:679:VAL:HG23	2.29	0.68
1:7:233:GLN:HE21	1:7:240:ILE:HD12	1.59	0.68
1:H:233:GLN:HE21	1:H:240:ILE:HD12	1.59	0.68
1:P:247:TRP:CD1	1:P:679:VAL:HG23	2.29	0.68
1:V:233:GLN:HE21	1:V:240:ILE:HD12	1.59	0.68
1:Y:233:GLN:HE21	1:Y:240:ILE:HD12	1.59	0.68
1:1:233:GLN:HE21	1:1:240:ILE:HD12	1.59	0.68
1:2:247:TRP:CD1	1:2:679:VAL:HG23	2.29	0.68
1:b:247:TRP:CD1	1:b:679:VAL:HG23	2.29	0.68
1:d:247:TRP:CD1	1:d:679:VAL:HG23	2.29	0.68
1:j:233:GLN:HE21	1:j:240:ILE:HD12	1.59	0.68
1:p:247:TRP:CD1	1:p:679:VAL:HG23	2.29	0.68
1:w:233:GLN:HE21	1:w:240:ILE:HD12	1.59	0.68
1:A:233:GLN:HE21	1:A:240:ILE:HD12	1.59	0.68
1:A:247:TRP:CD1	1:A:679:VAL:HG23	2.29	0.68
1:E:247:TRP:CD1	1:E:679:VAL:HG23	2.29	0.68
1:I:247:TRP:CD1	1:I:679:VAL:HG23	2.29	0.68
1:O:233:GLN:HE21	1:O:240:ILE:HD12	1.59	0.68
1:T:233:GLN:HE21	1:T:240:ILE:HD12	1.59	0.68
1:T:247:TRP:CD1	1:T:679:VAL:HG23	2.29	0.68
1:6:247:TRP:CD1	1:6:679:VAL:HG23	2.29	0.68
1:g:247:TRP:CD1	1:g:679:VAL:HG23	2.29	0.68
1:o:247:TRP:CD1	1:o:679:VAL:HG23	2.29	0.68
1:q:247:TRP:CD1	1:q:679:VAL:HG23	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:233:GLN:HE21	1:y:240:ILE:HD12	1.59	0.68
1:8:247:TRP:CD1	1:8:679:VAL:HG23	2.29	0.68
1:D:233:GLN:HE21	1:D:240:ILE:HD12	1.59	0.68
1:K:247:TRP:CD1	1:K:679:VAL:HG23	2.29	0.68
1:Z:247:TRP:CD1	1:Z:679:VAL:HG23	2.29	0.68
1:c:247:TRP:CD1	1:c:679:VAL:HG23	2.29	0.68
1:e:233:GLN:HE21	1:e:240:ILE:HD12	1.59	0.68
1:f:233:GLN:HE21	1:f:240:ILE:HD12	1.59	0.68
1:g:233:GLN:HE21	1:g:240:ILE:HD12	1.59	0.68
1:p:233:GLN:HE21	1:p:240:ILE:HD12	1.59	0.68
1:u:247:TRP:CD1	1:u:679:VAL:HG23	2.29	0.68
1:w:247:TRP:CD1	1:w:679:VAL:HG23	2.29	0.68
1:B:247:TRP:CD1	1:B:679:VAL:HG23	2.29	0.67
1:N:247:TRP:CD1	1:N:679:VAL:HG23	2.29	0.67
1:1:247:TRP:CD1	1:1:679:VAL:HG23	2.29	0.67
1:c:554:ASP:OD1	1:e:462:LYS:NZ	2.22	0.67
1:m:233:GLN:HE21	1:m:240:ILE:HD12	1.59	0.67
1:x:247:TRP:CD1	1:x:679:VAL:HG23	2.29	0.67
1:F:233:GLN:HE21	1:F:240:ILE:HD12	1.59	0.67
1:J:247:TRP:CD1	1:J:679:VAL:HG23	2.29	0.67
1:U:233:GLN:HE21	1:U:240:ILE:HD12	1.59	0.67
1:i:247:TRP:CD1	1:i:679:VAL:HG23	2.29	0.67
1:r:233:GLN:HE21	1:r:240:ILE:HD12	1.59	0.67
1:r:247:TRP:CD1	1:r:679:VAL:HG23	2.29	0.67
1:G:247:TRP:CD1	1:G:679:VAL:HG23	2.29	0.67
1:Q:233:GLN:HE21	1:Q:240:ILE:HD12	1.59	0.67
1:Q:247:TRP:CD1	1:Q:679:VAL:HG23	2.29	0.67
1:X:247:TRP:CD1	1:X:679:VAL:HG23	2.29	0.67
1:s:233:GLN:HE21	1:s:240:ILE:HD12	1.59	0.67
1:v:247:TRP:CD1	1:v:679:VAL:HG23	2.29	0.67
1:B:466:ALA:HB1	1:B:474:GLN:HG2	1.77	0.67
1:H:247:TRP:CD1	1:H:679:VAL:HG23	2.29	0.67
1:Y:247:TRP:CD1	1:Y:679:VAL:HG23	2.29	0.67
1:i:233:GLN:HE21	1:i:240:ILE:HD12	1.59	0.67
1:n:247:TRP:CD1	1:n:679:VAL:HG23	2.29	0.67
1:t:247:TRP:CD1	1:t:679:VAL:HG23	2.29	0.67
1:u:233:GLN:HE21	1:u:240:ILE:HD12	1.59	0.67
1:u:466:ALA:HB1	1:u:474:GLN:HG2	1.77	0.67
1:y:466:ALA:HB1	1:y:474:GLN:HG2	1.77	0.67
1:B:233:GLN:HE21	1:B:240:ILE:HD12	1.59	0.67
1:D:462:LYS:NZ	1:N:554:ASP:OD1	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:466:ALA:HB1	1:F:474:GLN:HG2	1.77	0.67
1:H:466:ALA:HB1	1:H:474:GLN:HG2	1.77	0.67
1:L:247:TRP:CD1	1:L:679:VAL:HG23	2.29	0.67
1:X:570:ASN:HD21	1:X:607:TRP:HB2	1.60	0.67
1:i:570:ASN:HD21	1:i:607:TRP:HB2	1.60	0.67
1:s:466:ALA:HB1	1:s:474:GLN:HG2	1.77	0.67
1:y:247:TRP:CD1	1:y:679:VAL:HG23	2.29	0.67
1:7:247:TRP:CD1	1:7:679:VAL:HG23	2.29	0.67
1:E:466:ALA:HB1	1:E:474:GLN:HG2	1.77	0.67
1:I:466:ALA:HB1	1:I:474:GLN:HG2	1.77	0.67
1:N:233:GLN:HE21	1:N:240:ILE:HD12	1.59	0.67
1:P:570:ASN:HD21	1:P:607:TRP:HB2	1.60	0.67
1:R:466:ALA:HB1	1:R:474:GLN:HG2	1.77	0.67
1:S:247:TRP:CD1	1:S:679:VAL:HG23	2.29	0.67
1:X:233:GLN:HE21	1:X:240:ILE:HD12	1.59	0.67
1:5:247:TRP:CD1	1:5:679:VAL:HG23	2.29	0.67
1:h:233:GLN:HE21	1:h:240:ILE:HD12	1.59	0.67
1:o:466:ALA:HB1	1:o:474:GLN:HG2	1.77	0.67
1:q:466:ALA:HB1	1:q:474:GLN:HG2	1.77	0.67
1:x:570:ASN:HD21	1:x:607:TRP:HB2	1.60	0.67
1:7:570:ASN:HD21	1:7:607:TRP:HB2	1.60	0.67
1:K:570:ASN:HD21	1:K:607:TRP:HB2	1.60	0.67
1:O:466:ALA:HB1	1:O:474:GLN:HG2	1.77	0.67
1:Q:466:ALA:HB1	1:Q:474:GLN:HG2	1.77	0.67
1:W:233:GLN:HE21	1:W:240:ILE:HD12	1.59	0.67
1:Y:570:ASN:HD21	1:Y:607:TRP:HB2	1.60	0.67
1:2:233:GLN:HE21	1:2:240:ILE:HD12	1.59	0.67
1:3:247:TRP:CD1	1:3:679:VAL:HG23	2.29	0.67
1:4:233:GLN:HE21	1:4:240:ILE:HD12	1.59	0.67
1:d:570:ASN:HD21	1:d:607:TRP:HB2	1.60	0.67
1:k:466:ALA:HB1	1:k:474:GLN:HG2	1.77	0.67
1:l:570:ASN:HD21	1:l:607:TRP:HB2	1.60	0.67
1:z:233:GLN:HE21	1:z:240:ILE:HD12	1.59	0.67
1:A:466:ALA:HB1	1:A:474:GLN:HG2	1.77	0.67
1:C:233:GLN:HE21	1:C:240:ILE:HD12	1.59	0.67
1:D:466:ALA:HB1	1:D:474:GLN:HG2	1.77	0.67
1:I:233:GLN:HE21	1:I:240:ILE:HD12	1.59	0.67
1:N:570:ASN:HD21	1:N:607:TRP:HB2	1.60	0.67
1:R:233:GLN:HE21	1:R:240:ILE:HD12	1.59	0.67
1:S:233:GLN:HE21	1:S:240:ILE:HD12	1.59	0.67
1:S:570:ASN:HD21	1:S:607:TRP:HB2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:570:ASN:HD21	1:2:607:TRP:HB2	1.60	0.67
1:3:570:ASN:HD21	1:3:607:TRP:HB2	1.60	0.67
1:5:570:ASN:HD21	1:5:607:TRP:HB2	1.60	0.67
1:6:233:GLN:HE21	1:6:240:ILE:HD12	1.59	0.67
1:6:570:ASN:HD21	1:6:607:TRP:HB2	1.60	0.67
1:a:233:GLN:HE21	1:a:240:ILE:HD12	1.59	0.67
1:c:233:GLN:HE21	1:c:240:ILE:HD12	1.59	0.67
1:e:466:ALA:HB1	1:e:474:GLN:HG2	1.77	0.67
1:f:466:ALA:HB1	1:f:474:GLN:HG2	1.77	0.67
1:l:233:GLN:HE21	1:l:240:ILE:HD12	1.59	0.67
1:l:247:TRP:CD1	1:l:679:VAL:HG23	2.29	0.67
1:r:466:ALA:HB1	1:r:474:GLN:HG2	1.77	0.67
1:s:570:ASN:HD21	1:s:607:TRP:HB2	1.60	0.67
1:F:570:ASN:HD21	1:F:607:TRP:HB2	1.60	0.67
1:G:233:GLN:HE21	1:G:240:ILE:HD12	1.59	0.67
1:K:233:GLN:HE21	1:K:240:ILE:HD12	1.59	0.67
1:O:247:TRP:CD1	1:O:679:VAL:HG23	2.29	0.67
1:P:233:GLN:HE21	1:P:240:ILE:HD12	1.59	0.67
1:W:466:ALA:HB1	1:W:474:GLN:HG2	1.77	0.67
1:a:570:ASN:HD21	1:a:607:TRP:HB2	1.60	0.67
1:c:570:ASN:HD21	1:c:607:TRP:HB2	1.60	0.67
1:d:233:GLN:HE21	1:d:240:ILE:HD12	1.59	0.67
1:e:247:TRP:CD1	1:e:679:VAL:HG23	2.29	0.67
1:k:233:GLN:HE21	1:k:240:ILE:HD12	1.59	0.67
1:n:233:GLN:HE21	1:n:240:ILE:HD12	1.59	0.67
1:o:233:GLN:HE21	1:o:240:ILE:HD12	1.59	0.67
1:p:466:ALA:HB1	1:p:474:GLN:HG2	1.77	0.67
1:v:570:ASN:HD21	1:v:607:TRP:HB2	1.60	0.67
1:x:233:GLN:HE21	1:x:240:ILE:HD12	1.59	0.67
1:8:466:ALA:HB1	1:8:474:GLN:HG2	1.77	0.67
1:C:570:ASN:HD21	1:C:607:TRP:HB2	1.60	0.67
1:D:247:TRP:CD1	1:D:679:VAL:HG23	2.29	0.67
1:J:570:ASN:HD21	1:J:607:TRP:HB2	1.60	0.67
1:L:233:GLN:HE21	1:L:240:ILE:HD12	1.59	0.67
1:Q:570:ASN:HD21	1:Q:607:TRP:HB2	1.60	0.67
1:S:466:ALA:HB1	1:S:474:GLN:HG2	1.77	0.67
1:V:466:ALA:HB1	1:V:474:GLN:HG2	1.77	0.67
1:Z:466:ALA:HB1	1:Z:474:GLN:HG2	1.77	0.67
1:j:247:TRP:CD1	1:j:679:VAL:HG23	2.29	0.67
1:j:466:ALA:HB1	1:j:474:GLN:HG2	1.77	0.67
1:z:466:ALA:HB1	1:z:474:GLN:HG2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:233:GLN:HE21	1:Z:240:ILE:HD12	1.59	0.66
1:j:570:ASN:HD21	1:j:607:TRP:HB2	1.60	0.66
1:l:466:ALA:HB1	1:l:474:GLN:HG2	1.77	0.66
1:r:570:ASN:HD21	1:r:607:TRP:HB2	1.60	0.66
1:t:233:GLN:HE21	1:t:240:ILE:HD12	1.59	0.66
1:A:570:ASN:HD21	1:A:607:TRP:HB2	1.60	0.66
1:F:247:TRP:CD1	1:F:679:VAL:HG23	2.29	0.66
1:J:233:GLN:HE21	1:J:240:ILE:HD12	1.59	0.66
1:V:247:TRP:CD1	1:V:679:VAL:HG23	2.29	0.66
1:V:570:ASN:HD21	1:V:607:TRP:HB2	1.60	0.66
1:W:247:TRP:CD1	1:W:679:VAL:HG23	2.29	0.66
1:4:466:ALA:HB1	1:4:474:GLN:HG2	1.77	0.66
1:f:570:ASN:HD21	1:f:607:TRP:HB2	1.60	0.66
1:B:462:LYS:NZ	1:J:554:ASP:OD1	2.22	0.66
1:O:570:ASN:HD21	1:O:607:TRP:HB2	1.60	0.66
1:Y:466:ALA:HB1	1:Y:474:GLN:HG2	1.77	0.66
1:3:233:GLN:HE21	1:3:240:ILE:HD12	1.59	0.66
1:4:570:ASN:HD21	1:4:607:TRP:HB2	1.60	0.66
1:5:233:GLN:HE21	1:5:240:ILE:HD12	1.59	0.66
1:f:247:TRP:CD1	1:f:679:VAL:HG23	2.29	0.66
1:h:466:ALA:HB1	1:h:474:GLN:HG2	1.77	0.66
1:p:570:ASN:HD21	1:p:607:TRP:HB2	1.60	0.66
1:s:247:TRP:CD1	1:s:679:VAL:HG23	2.29	0.66
1:z:247:TRP:CD1	1:z:679:VAL:HG23	2.29	0.66
1:7:466:ALA:HB1	1:7:474:GLN:HG2	1.77	0.66
1:8:233:GLN:HE21	1:8:240:ILE:HD12	1.59	0.66
1:D:570:ASN:HD21	1:D:607:TRP:HB2	1.60	0.66
1:G:570:ASN:HD21	1:G:607:TRP:HB2	1.60	0.66
1:N:466:ALA:HB1	1:N:474:GLN:HG2	1.77	0.66
1:R:462:LYS:NZ	1:S:554:ASP:OD1	2.22	0.66
1:c:466:ALA:HB1	1:c:474:GLN:HG2	1.77	0.66
1:u:462:LYS:NZ	1:v:554:ASP:OD1	2.22	0.66
1:v:233:GLN:HE21	1:v:240:ILE:HD12	1.59	0.66
1:E:233:GLN:HE21	1:E:240:ILE:HD12	1.59	0.66
1:U:466:ALA:HB1	1:U:474:GLN:HG2	1.77	0.66
1:1:466:ALA:HB1	1:1:474:GLN:HG2	1.77	0.66
1:e:570:ASN:HD21	1:e:607:TRP:HB2	1.60	0.66
1:h:570:ASN:HD21	1:h:607:TRP:HB2	1.60	0.66
1:k:462:LYS:NZ	1:l:554:ASP:OD1	2.22	0.66
1:t:554:ASP:OD1	1:v:462:LYS:NZ	2.22	0.66
1:b:570:ASN:HD21	1:b:607:TRP:HB2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:247:TRP:CD1	1:m:679:VAL:HG23	2.29	0.66
1:m:466:ALA:HB1	1:m:474:GLN:HG2	1.77	0.66
1:n:570:ASN:HD21	1:n:607:TRP:HB2	1.60	0.66
1:q:233:GLN:HE21	1:q:240:ILE:HD12	1.59	0.66
1:w:466:ALA:HB1	1:w:474:GLN:HG2	1.77	0.66
1:z:570:ASN:HD21	1:z:607:TRP:HB2	1.60	0.66
1:M:233:GLN:HE21	1:M:240:ILE:HD12	1.59	0.66
1:M:570:ASN:HD21	1:M:607:TRP:HB2	1.60	0.66
1:T:570:ASN:HD21	1:T:607:TRP:HB2	1.60	0.66
1:U:247:TRP:CD1	1:U:679:VAL:HG23	2.29	0.66
1:W:570:ASN:HD21	1:W:607:TRP:HB2	1.60	0.66
1:1:570:ASN:HD21	1:1:607:TRP:HB2	1.60	0.66
1:d:466:ALA:HB1	1:d:474:GLN:HG2	1.77	0.66
1:g:570:ASN:HD21	1:g:607:TRP:HB2	1.60	0.66
1:P:466:ALA:HB1	1:P:474:GLN:HG2	1.77	0.66
1:Z:570:ASN:HD21	1:Z:607:TRP:HB2	1.60	0.66
1:J:462:LYS:NZ	1:L:554:ASP:OD1	2.22	0.66
1:6:462:LYS:NZ	1:b:554:ASP:OD1	2.22	0.66
1:b:233:GLN:HE21	1:b:240:ILE:HD12	1.59	0.66
1:l:462:LYS:NZ	1:m:554:ASP:OD1	2.22	0.66
1:u:570:ASN:HD21	1:u:607:TRP:HB2	1.60	0.66
1:w:570:ASN:HD21	1:w:607:TRP:HB2	1.60	0.66
1:B:570:ASN:HD21	1:B:607:TRP:HB2	1.60	0.66
1:G:466:ALA:HB1	1:G:474:GLN:HG2	1.77	0.66
1:L:466:ALA:HB1	1:L:474:GLN:HG2	1.77	0.66
1:R:570:ASN:HD21	1:R:607:TRP:HB2	1.60	0.66
1:3:466:ALA:HB1	1:3:474:GLN:HG2	1.77	0.66
1:5:466:ALA:HB1	1:5:474:GLN:HG2	1.77	0.66
1:k:570:ASN:HD21	1:k:607:TRP:HB2	1.60	0.66
1:n:466:ALA:HB1	1:n:474:GLN:HG2	1.77	0.66
1:t:466:ALA:HB1	1:t:474:GLN:HG2	1.77	0.66
1:8:570:ASN:HD21	1:8:607:TRP:HB2	1.60	0.66
1:F:250:PRO:HG3	1:F:373:MET:HE3	1.79	0.65
1:X:466:ALA:HB1	1:X:474:GLN:HG2	1.77	0.65
1:2:466:ALA:HB1	1:2:474:GLN:HG2	1.77	0.65
1:6:466:ALA:HB1	1:6:474:GLN:HG2	1.77	0.65
1:a:466:ALA:HB1	1:a:474:GLN:HG2	1.77	0.65
1:i:466:ALA:HB1	1:i:474:GLN:HG2	1.77	0.65
1:r:462:LYS:NZ	1:s:554:ASP:OD1	2.22	0.65
1:s:250:PRO:HG3	1:s:373:MET:HE3	1.79	0.65
1:C:466:ALA:HB1	1:C:474:GLN:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:250:PRO:HG3	1:D:373:MET:HE3	1.79	0.65
1:E:570:ASN:HD21	1:E:607:TRP:HB2	1.60	0.65
1:5:250:PRO:HG3	1:5:373:MET:HE3	1.79	0.65
1:n:554:ASP:OD1	1:p:462:LYS:NZ	2.22	0.65
1:x:466:ALA:HB1	1:x:474:GLN:HG2	1.77	0.65
1:K:466:ALA:HB1	1:K:474:GLN:HG2	1.77	0.65
1:M:554:ASP:OD1	1:2:462:LYS:NZ	2.22	0.65
1:S:462:LYS:NZ	1:U:554:ASP:OD1	2.22	0.65
1:3:250:PRO:HG3	1:3:373:MET:HE3	1.79	0.65
1:q:570:ASN:HD21	1:q:607:TRP:HB2	1.60	0.65
1:C:554:ASP:OD1	1:M:462:LYS:NZ	2.22	0.65
1:M:466:ALA:HB1	1:M:474:GLN:HG2	1.77	0.65
1:U:570:ASN:HD21	1:U:607:TRP:HB2	1.60	0.65
1:e:250:PRO:HG3	1:e:373:MET:HE3	1.79	0.65
1:o:570:ASN:HD21	1:o:607:TRP:HB2	1.60	0.65
1:1:295:PRO:HB2	1:w:697:PRO:HD3	1.79	0.65
1:k:697:PRO:HD3	1:r:295:PRO:HB2	1.79	0.65
1:p:697:PRO:HD3	1:s:295:PRO:HB2	1.79	0.65
1:H:570:ASN:HD21	1:H:607:TRP:HB2	1.60	0.65
1:Q:295:PRO:HB2	1:R:697:PRO:HD3	1.79	0.65
1:1:697:PRO:HD3	1:w:295:PRO:HB2	1.79	0.65
1:2:295:PRO:HB2	1:3:697:PRO:HD3	1.79	0.65
1:5:697:PRO:HD3	1:6:295:PRO:HB2	1.79	0.65
1:y:570:ASN:HD21	1:y:607:TRP:HB2	1.60	0.65
1:A:462:LYS:NZ	1:G:554:ASP:OD1	2.22	0.65
1:A:697:PRO:HD3	1:F:295:PRO:HB2	1.79	0.65
1:I:570:ASN:HD21	1:I:607:TRP:HB2	1.60	0.65
1:J:250:PRO:HG3	1:J:373:MET:HE3	1.79	0.65
1:J:466:ALA:HB1	1:J:474:GLN:HG2	1.77	0.65
1:L:570:ASN:HD21	1:L:607:TRP:HB2	1.60	0.65
1:T:466:ALA:HB1	1:T:474:GLN:HG2	1.77	0.65
1:b:466:ALA:HB1	1:b:474:GLN:HG2	1.77	0.65
1:f:250:PRO:HG3	1:f:373:MET:HE3	1.79	0.65
1:j:295:PRO:HB2	1:m:697:PRO:HD3	1.79	0.65
1:m:250:PRO:HG3	1:m:373:MET:HE3	1.79	0.65
1:m:570:ASN:HD21	1:m:607:TRP:HB2	1.60	0.65
1:n:462:LYS:NZ	1:o:554:ASP:OD1	2.22	0.65
1:O:250:PRO:HG3	1:O:373:MET:HE3	1.79	0.65
1:U:697:PRO:HD3	1:V:295:PRO:HB2	1.79	0.65
1:a:554:ASP:OD1	1:b:462:LYS:NZ	2.22	0.65
1:h:250:PRO:HG3	1:h:373:MET:HE3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:250:PRO:HG3	1:v:373:MET:HE3	1.79	0.65
1:B:295:PRO:HB2	1:I:697:PRO:HD3	1.79	0.65
1:B:697:PRO:HD3	1:I:295:PRO:HB2	1.79	0.65
1:C:250:PRO:HG3	1:C:373:MET:HE3	1.79	0.65
1:U:250:PRO:HG3	1:U:373:MET:HE3	1.79	0.65
1:4:250:PRO:HG3	1:4:373:MET:HE3	1.79	0.65
1:g:466:ALA:HB1	1:g:474:GLN:HG2	1.77	0.65
1:o:295:PRO:HB2	1:u:697:PRO:HD3	1.79	0.65
1:o:697:PRO:HD3	1:u:295:PRO:HB2	1.79	0.65
1:t:570:ASN:HD21	1:t:607:TRP:HB2	1.60	0.65
1:D:697:PRO:HD3	1:M:295:PRO:HB2	1.79	0.64
1:E:250:PRO:HG3	1:E:373:MET:HE3	1.79	0.64
1:E:295:PRO:HB2	1:P:697:PRO:HD3	1.79	0.64
1:G:462:LYS:NZ	1:I:554:ASP:OD1	2.22	0.64
1:H:250:PRO:HG3	1:H:373:MET:HE3	1.79	0.64
1:J:295:PRO:HB2	1:K:697:PRO:HD3	1.79	0.64
1:N:295:PRO:HB2	1:O:697:PRO:HD3	1.80	0.64
1:P:250:PRO:HG3	1:P:373:MET:HE3	1.79	0.64
1:T:250:PRO:HG3	1:T:373:MET:HE3	1.79	0.64
1:a:250:PRO:HG3	1:a:373:MET:HE3	1.79	0.64
1:b:295:PRO:HB2	1:e:697:PRO:HD3	1.79	0.64
1:d:697:PRO:HD3	1:q:295:PRO:HB2	1.79	0.64
1:r:250:PRO:HG3	1:r:373:MET:HE3	1.79	0.64
1:v:466:ALA:HB1	1:v:474:GLN:HG2	1.77	0.64
1:Y:295:PRO:HB2	1:Z:697:PRO:HD3	1.79	0.64
1:d:250:PRO:HG3	1:d:373:MET:HE3	1.79	0.64
1:y:250:PRO:HG3	1:y:373:MET:HE3	1.79	0.64
1:Q:250:PRO:HG3	1:Q:373:MET:HE3	1.79	0.64
1:g:250:PRO:HG3	1:g:373:MET:HE3	1.79	0.64
1:q:250:PRO:HG3	1:q:373:MET:HE3	1.79	0.64
1:v:295:PRO:HB2	1:x:697:PRO:HD3	1.79	0.64
1:7:295:PRO:HB2	1:8:697:PRO:HD3	1.79	0.64
1:A:250:PRO:HG3	1:A:373:MET:HE3	1.79	0.64
1:p:250:PRO:HG3	1:p:373:MET:HE3	1.79	0.64
1:p:295:PRO:HB2	1:s:697:PRO:HD3	1.79	0.64
1:8:250:PRO:HG3	1:8:373:MET:HE3	1.79	0.64
1:Z:250:PRO:HG3	1:Z:373:MET:HE3	1.79	0.64
1:c:250:PRO:HG3	1:c:373:MET:HE3	1.79	0.64
1:j:697:PRO:HD3	1:m:295:PRO:HB2	1.79	0.64
1:A:295:PRO:HB2	1:F:697:PRO:HD3	1.79	0.64
1:M:250:PRO:HG3	1:M:373:MET:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:250:PRO:HG3	1:N:373:MET:HE3	1.79	0.64
1:N:697:PRO:HD3	1:O:295:PRO:HB2	1.79	0.64
1:U:295:PRO:HB2	1:V:697:PRO:HD3	1.79	0.64
1:Y:250:PRO:HG3	1:Y:373:MET:HE3	1.79	0.64
1:2:697:PRO:HD3	1:3:295:PRO:HB2	1.79	0.64
1:n:295:PRO:HB2	1:y:697:PRO:HD3	1.79	0.64
1:u:250:PRO:HG3	1:u:373:MET:HE3	1.79	0.64
1:B:250:PRO:HG3	1:B:373:MET:HE3	1.79	0.64
1:G:295:PRO:HB2	1:H:697:PRO:HD3	1.79	0.64
1:G:697:PRO:HD3	1:H:295:PRO:HB2	1.79	0.64
1:5:295:PRO:HB2	1:6:697:PRO:HD3	1.79	0.64
1:a:295:PRO:HB2	1:t:697:PRO:HD3	1.79	0.64
1:b:250:PRO:HG3	1:b:373:MET:HE3	1.79	0.64
1:C:295:PRO:HB2	1:L:697:PRO:HD3	1.79	0.64
1:C:430:GLN:NE2	1:2:353:PRO:HB3	2.13	0.64
1:6:353:PRO:HB3	1:a:430:GLN:NE2	2.13	0.64
1:x:250:PRO:HG3	1:x:373:MET:HE3	1.79	0.64
1:7:250:PRO:HG3	1:7:373:MET:HE3	1.79	0.64
1:K:250:PRO:HG3	1:K:373:MET:HE3	1.79	0.64
1:2:250:PRO:HG3	1:2:373:MET:HE3	1.79	0.64
1:4:295:PRO:HB2	1:h:697:PRO:HD3	1.79	0.64
1:6:250:PRO:HG3	1:6:373:MET:HE3	1.79	0.64
1:k:250:PRO:HG3	1:k:373:MET:HE3	1.79	0.64
1:n:697:PRO:HD3	1:y:295:PRO:HB2	1.79	0.64
1:r:430:GLN:NE2	1:s:353:PRO:HB3	2.13	0.64
1:7:697:PRO:HD3	1:8:295:PRO:HB2	1.79	0.64
1:F:353:PRO:HB3	1:Q:430:GLN:NE2	2.13	0.64
1:4:697:PRO:HD3	1:h:295:PRO:HB2	1.79	0.64
1:c:295:PRO:HB2	1:f:697:PRO:HD3	1.80	0.64
1:c:697:PRO:HD3	1:f:295:PRO:HB2	1.80	0.64
1:K:430:GLN:NE2	1:1:353:PRO:HB3	2.13	0.63
1:O:353:PRO:HB3	1:h:430:GLN:NE2	2.14	0.63
1:R:250:PRO:HG3	1:R:373:MET:HE3	1.79	0.63
1:Y:697:PRO:HD3	1:Z:295:PRO:HB2	1.79	0.63
1:4:430:GLN:NE2	1:f:353:PRO:HB3	2.14	0.63
1:w:353:PRO:HB3	1:x:430:GLN:NE2	2.13	0.63
1:S:697:PRO:HD3	1:T:295:PRO:HB2	1.79	0.63
1:W:250:PRO:HG3	1:W:373:MET:HE3	1.79	0.63
1:k:295:PRO:HB2	1:r:697:PRO:HD3	1.79	0.63
1:t:250:PRO:HG3	1:t:373:MET:HE3	1.79	0.63
1:w:250:PRO:HG3	1:w:373:MET:HE3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:250:PRO:HG3	1:z:373:MET:HE3	1.79	0.63
1:E:430:GLN:NE2	1:Q:353:PRO:HB3	2.14	0.63
1:H:430:GLN:NE2	1:W:353:PRO:HB3	2.14	0.63
1:Q:697:PRO:HD3	1:R:295:PRO:HB2	1.79	0.63
1:R:430:GLN:NE2	1:S:353:PRO:HB3	2.14	0.63
1:V:250:PRO:HG3	1:V:373:MET:HE3	1.79	0.63
1:g:295:PRO:HB2	1:l:697:PRO:HD3	1.79	0.63
1:j:250:PRO:HG3	1:j:373:MET:HE3	1.79	0.63
1:q:430:GLN:NE2	1:r:353:PRO:HB3	2.14	0.63
1:y:430:GLN:NE2	1:z:353:PRO:HB3	2.14	0.63
1:E:353:PRO:HB3	1:F:430:GLN:NE2	2.14	0.63
1:L:250:PRO:HG3	1:L:373:MET:HE3	1.79	0.63
1:T:430:GLN:NE2	1:4:353:PRO:HB3	2.13	0.63
1:1:250:PRO:HG3	1:1:373:MET:HE3	1.79	0.63
1:k:353:PRO:HB3	1:m:430:GLN:NE2	2.14	0.63
1:k:430:GLN:NE2	1:l:353:PRO:HB3	2.14	0.63
1:R:353:PRO:HB3	1:U:430:GLN:NE2	2.14	0.63
1:W:697:PRO:HD3	1:X:295:PRO:HB2	1.80	0.63
1:g:430:GLN:NE2	1:h:353:PRO:HB3	2.13	0.63
1:q:353:PRO:HB3	1:s:430:GLN:NE2	2.14	0.63
1:t:353:PRO:HB3	1:v:430:GLN:NE2	2.14	0.63
1:z:430:GLN:NE2	1:7:353:PRO:HB3	2.14	0.63
1:B:353:PRO:HB3	1:L:430:GLN:NE2	2.14	0.63
1:G:250:PRO:HG3	1:G:373:MET:HE3	1.79	0.63
1:J:430:GLN:NE2	1:L:353:PRO:HB3	2.14	0.63
1:J:697:PRO:HD3	1:K:295:PRO:HB2	1.79	0.63
1:M:353:PRO:HB3	1:2:430:GLN:NE2	2.14	0.63
1:S:250:PRO:HG3	1:S:373:MET:HE3	1.79	0.63
1:W:430:GLN:NE2	1:Y:353:PRO:HB3	2.14	0.63
1:i:295:PRO:HB2	1:z:697:PRO:HD3	1.80	0.63
1:o:250:PRO:HG3	1:o:373:MET:HE3	1.79	0.63
1:v:697:PRO:HD3	1:x:295:PRO:HB2	1.79	0.63
1:D:295:PRO:HB2	1:M:697:PRO:HD3	1.79	0.63
1:E:252:TYR:OH	1:E:374:ILE:O	2.17	0.63
1:I:250:PRO:HG3	1:I:373:MET:HE3	1.79	0.63
1:K:484:TYR:H	1:K:524:MET:CE	2.12	0.63
1:V:430:GLN:NE2	1:5:353:PRO:HB3	2.13	0.63
1:W:295:PRO:HB2	1:X:697:PRO:HD3	1.79	0.63
1:3:353:PRO:HB3	1:j:430:GLN:NE2	2.13	0.63
1:6:430:GLN:NE2	1:b:353:PRO:HB3	2.14	0.63
1:i:250:PRO:HG3	1:i:373:MET:HE3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:430:GLN:NE2	1:j:353:PRO:HB3	2.14	0.63
1:l:250:PRO:HG3	1:l:373:MET:HE3	1.79	0.63
1:t:430:GLN:NE2	1:u:353:PRO:HB3	2.14	0.63
1:u:430:GLN:NE2	1:v:353:PRO:HB3	2.14	0.63
1:x:484:TYR:H	1:x:524:MET:CE	2.12	0.63
1:B:430:GLN:NE2	1:J:353:PRO:HB3	2.14	0.63
1:V:353:PRO:HB3	1:X:430:GLN:NE2	2.14	0.63
1:3:252:TYR:OH	1:3:374:ILE:O	2.17	0.63
1:6:252:TYR:OH	1:6:374:ILE:O	2.17	0.63
1:n:250:PRO:HG3	1:n:373:MET:HE3	1.79	0.63
1:H:484:TYR:H	1:H:524:MET:CE	2.12	0.63
1:V:252:TYR:OH	1:V:374:ILE:O	2.17	0.63
1:2:252:TYR:OH	1:2:374:ILE:O	2.17	0.63
1:i:697:PRO:HD3	1:z:295:PRO:HB2	1.79	0.63
1:j:252:TYR:OH	1:j:374:ILE:O	2.17	0.63
1:K:353:PRO:HB3	1:8:430:GLN:NE2	2.14	0.62
1:O:430:GLN:NE2	1:g:353:PRO:HB3	2.14	0.62
1:T:353:PRO:HB3	1:f:430:GLN:NE2	2.14	0.62
1:X:250:PRO:HG3	1:X:373:MET:HE3	1.79	0.62
1:X:252:TYR:OH	1:X:374:ILE:O	2.17	0.62
1:4:462:LYS:NZ	1:f:554:ASP:OD1	2.22	0.62
1:b:697:PRO:HD3	1:e:295:PRO:HB2	1.79	0.62
1:y:484:TYR:H	1:y:524:MET:CE	2.12	0.62
1:H:353:PRO:HB3	1:Y:430:GLN:NE2	2.14	0.62
1:J:484:TYR:H	1:J:524:MET:CE	2.12	0.62
1:O:484:TYR:H	1:O:524:MET:CE	2.12	0.62
1:S:430:GLN:NE2	1:U:353:PRO:HB3	2.14	0.62
1:Z:430:GLN:NE2	1:x:353:PRO:HB3	2.14	0.62
1:1:430:GLN:NE2	1:8:353:PRO:HB3	2.14	0.62
1:f:484:TYR:H	1:f:524:MET:CE	2.12	0.62
1:i:252:TYR:OH	1:i:374:ILE:O	2.17	0.62
1:o:430:GLN:NE2	1:p:353:PRO:HB3	2.13	0.62
1:v:484:TYR:H	1:v:524:MET:CE	2.12	0.62
1:7:484:TYR:H	1:7:524:MET:CE	2.12	0.62
1:B:484:TYR:H	1:B:524:MET:CE	2.12	0.62
1:L:484:TYR:H	1:L:524:MET:CE	2.12	0.62
1:S:295:PRO:HB2	1:T:697:PRO:HD3	1.79	0.62
1:Y:484:TYR:H	1:Y:524:MET:CE	2.12	0.62
1:Z:353:PRO:HB3	1:w:430:GLN:NE2	2.14	0.62
1:4:484:TYR:H	1:4:524:MET:CE	2.12	0.62
1:h:484:TYR:H	1:h:524:MET:CE	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:353:PRO:HB3	1:7:430:GLN:NE2	2.14	0.62
1:Q:484:TYR:H	1:Q:524:MET:CE	2.12	0.62
1:Z:484:TYR:H	1:Z:524:MET:CE	2.12	0.62
1:g:484:TYR:H	1:g:524:MET:CE	2.12	0.62
1:g:697:PRO:HD3	1:l:295:PRO:HB2	1.79	0.62
1:l:430:GLN:NE2	1:m:353:PRO:HB3	2.14	0.62
1:l:484:TYR:H	1:l:524:MET:CE	2.12	0.62
1:n:484:TYR:H	1:n:524:MET:CE	2.12	0.62
1:t:484:TYR:H	1:t:524:MET:CE	2.12	0.62
1:u:484:TYR:H	1:u:524:MET:CE	2.12	0.62
1:A:353:PRO:HB3	1:I:430:GLN:NE2	2.14	0.62
1:A:484:TYR:H	1:A:524:MET:CE	2.12	0.62
1:D:252:TYR:OH	1:D:374:ILE:O	2.17	0.62
1:D:353:PRO:HB3	1:P:430:GLN:NE2	2.14	0.62
1:D:430:GLN:NE2	1:N:353:PRO:HB3	2.14	0.62
1:G:484:TYR:H	1:G:524:MET:CE	2.12	0.62
1:T:484:TYR:H	1:T:524:MET:CE	2.12	0.62
1:a:697:PRO:HD3	1:t:295:PRO:HB2	1.79	0.62
1:o:484:TYR:H	1:o:524:MET:CE	2.12	0.62
1:8:484:TYR:H	1:8:524:MET:CE	2.12	0.62
1:C:353:PRO:HB3	1:M:430:GLN:NE2	2.14	0.62
1:I:484:TYR:H	1:I:524:MET:CE	2.12	0.62
1:S:484:TYR:H	1:S:524:MET:CE	2.12	0.62
1:d:430:GLN:NE2	1:e:353:PRO:HB3	2.14	0.62
1:n:430:GLN:NE2	1:o:353:PRO:HB3	2.14	0.62
1:p:484:TYR:H	1:p:524:MET:CE	2.12	0.62
1:C:697:PRO:HD3	1:L:295:PRO:HB2	1.79	0.62
1:N:484:TYR:H	1:N:524:MET:CE	2.12	0.62
1:4:252:TYR:OH	1:4:374:ILE:O	2.17	0.62
1:a:353:PRO:HB3	1:b:430:GLN:NE2	2.14	0.62
1:n:252:TYR:OH	1:n:374:ILE:O	2.17	0.62
1:G:430:GLN:NE2	1:I:353:PRO:HB3	2.14	0.62
1:2:484:TYR:H	1:2:524:MET:CE	2.12	0.62
1:3:430:GLN:NE2	1:i:353:PRO:HB3	2.14	0.62
1:5:484:TYR:H	1:5:524:MET:CE	2.12	0.62
1:e:252:TYR:OH	1:e:374:ILE:O	2.17	0.62
1:h:252:TYR:OH	1:h:374:ILE:O	2.17	0.62
1:F:484:TYR:H	1:F:524:MET:CE	2.12	0.62
1:G:252:TYR:OH	1:G:374:ILE:O	2.17	0.62
1:6:484:TYR:H	1:6:524:MET:CE	2.12	0.62
1:s:484:TYR:H	1:s:524:MET:CE	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:430:GLN:NE2	1:G:353:PRO:HB3	2.14	0.62
1:C:415:TYR:OH	1:C:642:HIS:O	2.18	0.62
1:G:415:TYR:OH	1:G:642:HIS:O	2.18	0.62
1:H:415:TYR:OH	1:H:642:HIS:O	2.18	0.62
1:X:353:PRO:HB3	1:5:430:GLN:NE2	2.14	0.62
1:3:484:TYR:H	1:3:524:MET:CE	2.12	0.62
1:i:484:TYR:H	1:i:524:MET:CE	2.12	0.62
1:n:353:PRO:HB3	1:p:430:GLN:NE2	2.14	0.62
1:y:415:TYR:OH	1:y:642:HIS:O	2.18	0.62
1:X:484:TYR:H	1:X:524:MET:CE	2.12	0.61
1:Y:252:TYR:OH	1:Y:374:ILE:O	2.17	0.61
1:a:415:TYR:OH	1:a:642:HIS:O	2.18	0.61
1:c:353:PRO:HB3	1:e:430:GLN:NE2	2.14	0.61
1:m:252:TYR:OH	1:m:374:ILE:O	2.17	0.61
1:m:415:TYR:OH	1:m:642:HIS:O	2.18	0.61
1:m:484:TYR:H	1:m:524:MET:CE	2.12	0.61
1:n:415:TYR:OH	1:n:642:HIS:O	2.18	0.61
1:x:252:TYR:OH	1:x:374:ILE:O	2.17	0.61
1:7:252:TYR:OH	1:7:374:ILE:O	2.17	0.61
1:M:484:TYR:H	1:M:524:MET:CE	2.12	0.61
1:N:430:GLN:NE2	1:P:353:PRO:HB3	2.14	0.61
1:R:252:TYR:OH	1:R:374:ILE:O	2.17	0.61
1:U:415:TYR:OH	1:U:642:HIS:O	2.18	0.61
1:3:415:TYR:OH	1:3:642:HIS:O	2.18	0.61
1:5:415:TYR:OH	1:5:642:HIS:O	2.18	0.61
1:a:484:TYR:H	1:a:524:MET:CE	2.12	0.61
1:r:415:TYR:OH	1:r:642:HIS:O	2.18	0.61
1:C:484:TYR:H	1:C:524:MET:CE	2.12	0.61
1:O:415:TYR:OH	1:O:642:HIS:O	2.18	0.61
1:Q:252:TYR:OH	1:Q:374:ILE:O	2.17	0.61
1:Q:415:TYR:OH	1:Q:642:HIS:O	2.18	0.61
1:U:252:TYR:OH	1:U:374:ILE:O	2.17	0.61
1:U:484:TYR:H	1:U:524:MET:CE	2.12	0.61
1:6:415:TYR:OH	1:6:642:HIS:O	2.18	0.61
1:b:484:TYR:H	1:b:524:MET:CE	2.12	0.61
1:d:295:PRO:HB2	1:q:697:PRO:HD3	1.79	0.61
1:f:415:TYR:OH	1:f:642:HIS:O	2.18	0.61
1:u:415:TYR:OH	1:u:642:HIS:O	2.18	0.61
1:x:415:TYR:OH	1:x:642:HIS:O	2.18	0.61
1:B:355:VAL:H	1:B:646:GLN:HE22	1.49	0.61
1:B:415:TYR:OH	1:B:642:HIS:O	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:415:TYR:OH	1:K:642:HIS:O	2.18	0.61
1:2:415:TYR:OH	1:2:642:HIS:O	2.18	0.61
1:d:484:TYR:H	1:d:524:MET:CE	2.12	0.61
1:g:415:TYR:OH	1:g:642:HIS:O	2.18	0.61
1:E:697:PRO:HD3	1:P:295:PRO:HB2	1.79	0.61
1:T:415:TYR:OH	1:T:642:HIS:O	2.18	0.61
1:u:355:VAL:H	1:u:646:GLN:HE22	1.49	0.61
1:N:415:TYR:OH	1:N:642:HIS:O	2.18	0.61
1:P:484:TYR:H	1:P:524:MET:CE	2.12	0.61
1:R:355:VAL:H	1:R:646:GLN:HE22	1.49	0.61
1:k:355:VAL:H	1:k:646:GLN:HE22	1.49	0.61
1:l:415:TYR:OH	1:l:642:HIS:O	2.18	0.61
1:q:415:TYR:OH	1:q:642:HIS:O	2.18	0.61
1:E:415:TYR:OH	1:E:642:HIS:O	2.18	0.61
1:S:415:TYR:OH	1:S:642:HIS:O	2.18	0.61
1:3:355:VAL:H	1:3:646:GLN:HE22	1.49	0.61
1:5:355:VAL:H	1:5:646:GLN:HE22	1.49	0.61
1:c:415:TYR:OH	1:c:642:HIS:O	2.18	0.61
1:c:430:GLN:NE2	1:d:353:PRO:HB3	2.14	0.61
1:j:415:TYR:OH	1:j:642:HIS:O	2.18	0.61
1:D:484:TYR:H	1:D:524:MET:CE	2.12	0.61
1:P:415:TYR:OH	1:P:642:HIS:O	2.18	0.61
1:b:415:TYR:OH	1:b:642:HIS:O	2.18	0.61
1:c:484:TYR:H	1:c:524:MET:CE	2.12	0.61
1:d:415:TYR:OH	1:d:642:HIS:O	2.18	0.61
1:e:484:TYR:H	1:e:524:MET:CE	2.12	0.61
1:w:415:TYR:OH	1:w:642:HIS:O	2.18	0.61
1:E:484:TYR:H	1:E:524:MET:CE	2.12	0.61
1:F:355:VAL:H	1:F:646:GLN:HE22	1.49	0.61
1:M:415:TYR:OH	1:M:642:HIS:O	2.18	0.61
1:V:415:TYR:OH	1:V:642:HIS:O	2.18	0.61
1:V:449:LYS:HB2	1:V:462:LYS:HB2	1.83	0.61
1:W:355:VAL:H	1:W:646:GLN:HE22	1.49	0.61
1:1:415:TYR:OH	1:1:642:HIS:O	2.18	0.61
1:j:449:LYS:HB2	1:j:462:LYS:HB2	1.83	0.61
1:j:484:TYR:H	1:j:524:MET:CE	2.12	0.61
1:z:484:TYR:H	1:z:524:MET:CE	2.12	0.61
1:C:252:TYR:OH	1:C:374:ILE:O	2.17	0.61
1:L:415:TYR:OH	1:L:642:HIS:O	2.18	0.61
1:V:355:VAL:H	1:V:646:GLN:HE22	1.49	0.61
1:W:484:TYR:H	1:W:524:MET:CE	2.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:355:VAL:H	1:Z:646:GLN:HE22	1.49	0.61
1:2:449:LYS:HB2	1:2:462:LYS:HB2	1.83	0.61
1:6:449:LYS:HB2	1:6:462:LYS:HB2	1.83	0.61
1:o:252:TYR:OH	1:o:374:ILE:O	2.17	0.61
1:q:484:TYR:H	1:q:524:MET:CE	2.12	0.61
1:s:355:VAL:H	1:s:646:GLN:HE22	1.49	0.61
1:y:449:LYS:HB2	1:y:462:LYS:HB2	1.83	0.61
1:z:355:VAL:H	1:z:646:GLN:HE22	1.49	0.61
1:H:449:LYS:HB2	1:H:462:LYS:HB2	1.83	0.60
1:O:449:LYS:HB2	1:O:462:LYS:HB2	1.83	0.60
1:V:484:TYR:H	1:V:524:MET:CE	2.12	0.60
1:Y:415:TYR:OH	1:Y:642:HIS:O	2.18	0.60
1:Z:415:TYR:OH	1:Z:642:HIS:O	2.18	0.60
1:e:415:TYR:OH	1:e:642:HIS:O	2.18	0.60
1:f:449:LYS:HB2	1:f:462:LYS:HB2	1.83	0.60
1:7:415:TYR:OH	1:7:642:HIS:O	2.18	0.60
1:8:355:VAL:H	1:8:646:GLN:HE22	1.49	0.60
1:D:415:TYR:OH	1:D:642:HIS:O	2.18	0.60
1:E:449:LYS:HB2	1:E:462:LYS:HB2	1.83	0.60
1:I:252:TYR:OH	1:I:374:ILE:O	2.17	0.60
1:K:252:TYR:OH	1:K:374:ILE:O	2.17	0.60
1:a:252:TYR:OH	1:a:374:ILE:O	2.17	0.60
1:i:415:TYR:OH	1:i:642:HIS:O	2.18	0.60
1:j:355:VAL:H	1:j:646:GLN:HE22	1.49	0.60
1:k:252:TYR:OH	1:k:374:ILE:O	2.17	0.60
1:k:415:TYR:OH	1:k:642:HIS:O	2.18	0.60
1:t:415:TYR:OH	1:t:642:HIS:O	2.18	0.60
1:R:415:TYR:OH	1:R:642:HIS:O	2.18	0.60
1:X:355:VAL:H	1:X:646:GLN:HE22	1.49	0.60
1:X:415:TYR:OH	1:X:642:HIS:O	2.18	0.60
1:k:484:TYR:H	1:k:524:MET:CE	2.12	0.60
1:p:415:TYR:OH	1:p:642:HIS:O	2.18	0.60
1:q:449:LYS:HB2	1:q:462:LYS:HB2	1.83	0.60
1:r:252:TYR:OH	1:r:374:ILE:O	2.17	0.60
1:r:355:VAL:H	1:r:646:GLN:HE22	1.49	0.60
1:8:415:TYR:OH	1:8:642:HIS:O	2.18	0.60
1:A:415:TYR:OH	1:A:642:HIS:O	2.18	0.60
1:L:355:VAL:H	1:L:646:GLN:HE22	1.49	0.60
1:P:355:VAL:H	1:P:646:GLN:HE22	1.49	0.60
1:Y:449:LYS:HB2	1:Y:462:LYS:HB2	1.83	0.60
1:s:415:TYR:OH	1:s:642:HIS:O	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:355:VAL:H	1:t:646:GLN:HE22	1.49	0.60
1:I:415:TYR:OH	1:I:642:HIS:O	2.18	0.60
1:Q:355:VAL:H	1:Q:646:GLN:HE22	1.49	0.60
1:o:415:TYR:OH	1:o:642:HIS:O	2.18	0.60
1:t:449:LYS:HB2	1:t:462:LYS:HB2	1.83	0.60
1:v:415:TYR:OH	1:v:642:HIS:O	2.18	0.60
1:7:449:LYS:HB2	1:7:462:LYS:HB2	1.83	0.60
1:F:415:TYR:OH	1:F:642:HIS:O	2.18	0.60
1:J:415:TYR:OH	1:J:642:HIS:O	2.18	0.60
1:K:449:LYS:HB2	1:K:462:LYS:HB2	1.83	0.60
1:L:449:LYS:HB2	1:L:462:LYS:HB2	1.83	0.60
1:M:449:LYS:HB2	1:M:462:LYS:HB2	1.83	0.60
1:R:449:LYS:HB2	1:R:462:LYS:HB2	1.83	0.60
1:R:484:TYR:H	1:R:524:MET:CE	2.12	0.60
1:d:355:VAL:H	1:d:646:GLN:HE22	1.49	0.60
1:i:355:VAL:H	1:i:646:GLN:HE22	1.49	0.60
1:r:484:TYR:H	1:r:524:MET:CE	2.12	0.60
1:Z:449:LYS:HB2	1:Z:462:LYS:HB2	1.83	0.60
1:b:449:LYS:HB2	1:b:462:LYS:HB2	1.83	0.60
1:h:415:TYR:OH	1:h:642:HIS:O	2.18	0.60
1:k:449:LYS:HB2	1:k:462:LYS:HB2	1.83	0.60
1:x:449:LYS:HB2	1:x:462:LYS:HB2	1.83	0.60
1:z:415:TYR:OH	1:z:642:HIS:O	2.18	0.60
1:A:449:LYS:HB2	1:A:462:LYS:HB2	1.83	0.60
1:B:252:TYR:OH	1:B:374:ILE:O	2.17	0.60
1:W:449:LYS:HB2	1:W:462:LYS:HB2	1.83	0.60
1:Y:355:VAL:H	1:Y:646:GLN:HE22	1.49	0.60
1:u:252:TYR:OH	1:u:374:ILE:O	2.17	0.60
1:w:484:TYR:H	1:w:524:MET:CE	2.12	0.60
1:z:449:LYS:HB2	1:z:462:LYS:HB2	1.83	0.60
1:7:355:VAL:H	1:7:646:GLN:HE22	1.49	0.60
1:8:449:LYS:HB2	1:8:462:LYS:HB2	1.83	0.60
1:W:415:TYR:OH	1:W:642:HIS:O	2.18	0.60
1:1:484:TYR:H	1:1:524:MET:CE	2.12	0.60
1:4:415:TYR:OH	1:4:642:HIS:O	2.18	0.60
1:d:449:LYS:HB2	1:d:462:LYS:HB2	1.83	0.60
1:p:449:LYS:HB2	1:p:462:LYS:HB2	1.83	0.60
1:3:449:LYS:HB2	1:3:462:LYS:HB2	1.83	0.60
1:5:449:LYS:HB2	1:5:462:LYS:HB2	1.83	0.60
1:e:449:LYS:HB2	1:e:462:LYS:HB2	1.83	0.60
1:y:355:VAL:H	1:y:646:GLN:HE22	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:449:LYS:HB2	1:D:462:LYS:HB2	1.83	0.59
1:H:355:VAL:H	1:H:646:GLN:HE22	1.49	0.59
1:P:449:LYS:HB2	1:P:462:LYS:HB2	1.83	0.59
1:p:355:VAL:H	1:p:646:GLN:HE22	1.49	0.59
1:w:449:LYS:HB2	1:w:462:LYS:HB2	1.83	0.59
1:J:355:VAL:H	1:J:646:GLN:HE22	1.49	0.59
1:A:355:VAL:H	1:A:646:GLN:HE22	1.49	0.59
1:C:449:LYS:HB2	1:C:462:LYS:HB2	1.83	0.59
1:1:449:LYS:HB2	1:1:462:LYS:HB2	1.83	0.59
1:v:252:TYR:OH	1:v:374:ILE:O	2.17	0.59
1:x:355:VAL:H	1:x:646:GLN:HE22	1.49	0.59
1:K:355:VAL:H	1:K:646:GLN:HE22	1.49	0.59
1:O:252:TYR:OH	1:O:374:ILE:O	2.17	0.59
1:a:449:LYS:HB2	1:a:462:LYS:HB2	1.83	0.59
1:v:355:VAL:H	1:v:646:GLN:HE22	1.49	0.59
1:G:449:LYS:HB2	1:G:462:LYS:HB2	1.83	0.59
1:J:252:TYR:OH	1:J:374:ILE:O	2.17	0.59
1:S:449:LYS:HB2	1:S:462:LYS:HB2	1.83	0.59
1:U:449:LYS:HB2	1:U:462:LYS:HB2	1.83	0.59
1:l:355:VAL:H	1:l:646:GLN:HE22	1.49	0.59
1:l:449:LYS:HB2	1:l:462:LYS:HB2	1.83	0.59
1:n:449:LYS:HB2	1:n:462:LYS:HB2	1.83	0.59
1:F:252:TYR:OH	1:F:374:ILE:O	2.17	0.59
1:I:676:THR:HG21	1:J:655:PRO:HD2	1.85	0.59
1:N:449:LYS:HB2	1:N:462:LYS:HB2	1.83	0.59
1:5:252:TYR:OH	1:5:374:ILE:O	2.17	0.59
1:f:252:TYR:OH	1:f:374:ILE:O	2.17	0.59
1:o:676:THR:HG21	1:v:655:PRO:HD2	1.85	0.59
1:s:252:TYR:OH	1:s:374:ILE:O	2.17	0.59
1:Q:542:ILE:HD12	1:Q:560:ILE:HG12	1.85	0.59
1:S:355:VAL:H	1:S:646:GLN:HE22	1.49	0.59
1:T:449:LYS:HB2	1:T:462:LYS:HB2	1.83	0.59
1:a:355:VAL:H	1:a:646:GLN:HE22	1.49	0.59
1:c:449:LYS:HB2	1:c:462:LYS:HB2	1.83	0.59
1:f:355:VAL:H	1:f:646:GLN:HE22	1.49	0.59
1:h:449:LYS:HB2	1:h:462:LYS:HB2	1.83	0.59
1:m:449:LYS:HB2	1:m:462:LYS:HB2	1.83	0.59
1:r:542:ILE:HD12	1:r:560:ILE:HG12	1.85	0.59
1:C:655:PRO:HD2	1:D:676:THR:HG21	1.85	0.59
1:U:542:ILE:HD12	1:U:560:ILE:HG12	1.85	0.59
1:b:676:THR:HG21	1:c:655:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:449:LYS:HB2	1:g:462:LYS:HB2	1.83	0.59
1:m:542:ILE:HD12	1:m:560:ILE:HG12	1.85	0.59
1:p:676:THR:HG21	1:q:655:PRO:HD2	1.85	0.59
1:A:676:THR:HG21	1:E:655:PRO:HD2	1.85	0.59
1:F:542:ILE:HD12	1:F:560:ILE:HG12	1.85	0.59
1:F:676:THR:HG21	1:G:655:PRO:HD2	1.85	0.59
1:J:676:THR:HG21	1:1:655:PRO:HD2	1.85	0.59
1:4:449:LYS:HB2	1:4:462:LYS:HB2	1.83	0.59
1:a:676:THR:HG21	1:u:655:PRO:HD2	1.85	0.59
1:e:355:VAL:H	1:e:646:GLN:HE22	1.49	0.59
1:o:449:LYS:HB2	1:o:462:LYS:HB2	1.83	0.59
1:s:542:ILE:HD12	1:s:560:ILE:HG12	1.85	0.59
1:v:676:THR:HG21	1:w:655:PRO:HD2	1.85	0.59
1:B:655:PRO:HD2	1:C:676:THR:HG21	1.85	0.59
1:E:542:ILE:HD12	1:E:560:ILE:HG12	1.85	0.59
1:I:449:LYS:HB2	1:I:462:LYS:HB2	1.83	0.59
1:S:702:THR:HG22	1:T:700:GLN:HB2	1.85	0.59
1:T:676:THR:HG21	1:U:655:PRO:HD2	1.85	0.59
1:6:355:VAL:H	1:6:646:GLN:HE22	1.49	0.59
1:a:655:PRO:HD2	1:e:676:THR:HG21	1.85	0.59
1:g:676:THR:HG21	1:m:655:PRO:HD2	1.85	0.59
1:k:676:THR:HG21	1:s:655:PRO:HD2	1.85	0.59
1:n:355:VAL:H	1:n:646:GLN:HE22	1.49	0.59
1:n:655:PRO:HD2	1:s:676:THR:HG21	1.85	0.59
1:q:542:ILE:HD12	1:q:560:ILE:HG12	1.85	0.59
1:v:702:THR:HG22	1:x:700:GLN:HB2	1.85	0.59
1:F:449:LYS:HB2	1:F:462:LYS:HB2	1.83	0.58
1:F:655:PRO:HD2	1:R:676:THR:HG21	1.85	0.58
1:G:355:VAL:H	1:G:646:GLN:HE22	1.49	0.58
1:G:676:THR:HG21	1:W:655:PRO:HD2	1.85	0.58
1:H:676:THR:HG21	1:I:655:PRO:HD2	1.85	0.58
1:M:355:VAL:H	1:M:646:GLN:HE22	1.49	0.58
1:M:542:ILE:HD12	1:M:560:ILE:HG12	1.85	0.58
1:M:655:PRO:HD2	1:3:676:THR:HG21	1.85	0.58
1:O:355:VAL:H	1:O:646:GLN:HE22	1.49	0.58
1:W:252:TYR:OH	1:W:374:ILE:O	2.17	0.58
1:5:676:THR:HG21	1:b:655:PRO:HD2	1.85	0.58
1:b:542:ILE:HD12	1:b:560:ILE:HG12	1.85	0.58
1:j:676:THR:HG21	1:k:655:PRO:HD2	1.85	0.58
1:n:676:THR:HG21	1:z:655:PRO:HD2	1.85	0.58
1:o:655:PRO:HD2	1:y:676:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:449:LYS:HB2	1:v:462:LYS:HB2	1.83	0.58
1:D:355:VAL:H	1:D:646:GLN:HE22	1.49	0.58
1:D:655:PRO:HD2	1:E:676:THR:HG21	1.85	0.58
1:J:449:LYS:HB2	1:J:462:LYS:HB2	1.83	0.58
1:J:702:THR:HG22	1:K:700:GLN:HB2	1.85	0.58
1:N:355:VAL:H	1:N:646:GLN:HE22	1.49	0.58
1:O:655:PRO:HD2	1:4:676:THR:HG21	1.85	0.58
1:R:655:PRO:HD2	1:V:676:THR:HG21	1.85	0.58
1:U:702:THR:HG22	1:V:700:GLN:HB2	1.85	0.58
1:1:542:ILE:HD12	1:1:560:ILE:HG12	1.85	0.58
1:b:252:TYR:OH	1:b:374:ILE:O	2.17	0.58
1:g:700:GLN:HB2	1:l:702:THR:HG22	1.85	0.58
1:j:700:GLN:HB2	1:m:702:THR:HG22	1.85	0.58
1:p:700:GLN:HB2	1:s:702:THR:HG22	1.85	0.58
1:s:449:LYS:HB2	1:s:462:LYS:HB2	1.83	0.58
1:w:542:ILE:HD12	1:w:560:ILE:HG12	1.85	0.58
1:A:700:GLN:HB2	1:F:702:THR:HG22	1.86	0.58
1:D:542:ILE:HD12	1:D:560:ILE:HG12	1.85	0.58
1:E:702:THR:HG22	1:P:700:GLN:HB2	1.86	0.58
1:L:542:ILE:HD12	1:L:560:ILE:HG12	1.85	0.58
1:1:700:GLN:HB2	1:w:702:THR:HG22	1.85	0.58
1:1:702:THR:HG22	1:w:700:GLN:HB2	1.85	0.58
1:2:355:VAL:H	1:2:646:GLN:HE22	1.49	0.58
1:e:542:ILE:HD12	1:e:560:ILE:HG12	1.85	0.58
1:e:655:PRO:HD2	1:q:676:THR:HG21	1.85	0.58
1:f:655:PRO:HD2	1:h:676:THR:HG21	1.85	0.58
1:g:702:THR:HG22	1:l:700:GLN:HB2	1.86	0.58
1:i:702:THR:HG22	1:z:700:GLN:HB2	1.85	0.58
1:t:542:ILE:HD12	1:t:560:ILE:HG12	1.85	0.58
1:B:449:LYS:HB2	1:B:462:LYS:HB2	1.83	0.58
1:C:702:THR:HG22	1:L:700:GLN:HB2	1.86	0.58
1:I:542:ILE:HD12	1:I:560:ILE:HG12	1.85	0.58
1:M:252:TYR:OH	1:M:374:ILE:O	2.17	0.58
1:N:700:GLN:HB2	1:O:702:THR:HG22	1.86	0.58
1:P:676:THR:HG21	1:Q:655:PRO:HD2	1.85	0.58
1:S:700:GLN:HB2	1:T:702:THR:HG22	1.86	0.58
1:W:700:GLN:HB2	1:X:702:THR:HG22	1.85	0.58
1:Y:542:ILE:HD12	1:Y:560:ILE:HG12	1.85	0.58
1:Z:252:TYR:OH	1:Z:374:ILE:O	2.17	0.58
1:2:702:THR:HG22	1:3:700:GLN:HB2	1.85	0.58
1:5:700:GLN:HB2	1:6:702:THR:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:355:VAL:H	1:b:646:GLN:HE22	1.49	0.58
1:o:542:ILE:HD12	1:o:560:ILE:HG12	1.85	0.58
1:r:449:LYS:HB2	1:r:462:LYS:HB2	1.83	0.58
1:z:252:TYR:OH	1:z:374:ILE:O	2.17	0.58
1:7:542:ILE:HD12	1:7:560:ILE:HG12	1.85	0.58
1:8:252:TYR:OH	1:8:374:ILE:O	2.17	0.58
1:D:702:THR:HG22	1:M:700:GLN:HB2	1.85	0.58
1:N:542:ILE:HD12	1:N:560:ILE:HG12	1.85	0.58
1:O:542:ILE:HD12	1:O:560:ILE:HG12	1.85	0.58
1:R:542:ILE:HD12	1:R:560:ILE:HG12	1.85	0.58
1:S:676:THR:HG21	1:4:655:PRO:HD2	1.85	0.58
1:W:542:ILE:HD12	1:W:560:ILE:HG12	1.85	0.58
1:W:702:THR:HG22	1:X:700:GLN:HB2	1.85	0.58
1:Y:702:THR:HG22	1:Z:700:GLN:HB2	1.86	0.58
1:a:702:THR:HG22	1:t:700:GLN:HB2	1.86	0.58
1:b:700:GLN:HB2	1:e:702:THR:HG22	1.85	0.58
1:c:542:ILE:HD12	1:c:560:ILE:HG12	1.85	0.58
1:d:700:GLN:HB2	1:q:702:THR:HG22	1.86	0.58
1:f:542:ILE:HD12	1:f:560:ILE:HG12	1.85	0.58
1:h:655:PRO:HD2	1:l:676:THR:HG21	1.85	0.58
1:i:700:GLN:HB2	1:z:702:THR:HG22	1.85	0.58
1:k:542:ILE:HD12	1:k:560:ILE:HG12	1.85	0.58
1:B:702:THR:HG22	1:I:700:GLN:HB2	1.85	0.58
1:Q:449:LYS:HB2	1:Q:462:LYS:HB2	1.83	0.58
1:4:700:GLN:HB2	1:h:702:THR:HG22	1.85	0.58
1:5:542:ILE:HD12	1:5:560:ILE:HG12	1.85	0.58
1:o:700:GLN:HB2	1:u:702:THR:HG22	1.85	0.58
1:p:542:ILE:HD12	1:p:560:ILE:HG12	1.85	0.58
1:z:542:ILE:HD12	1:z:560:ILE:HG12	1.85	0.58
1:7:702:THR:HG22	1:8:700:GLN:HB2	1.86	0.58
1:T:355:VAL:H	1:T:646:GLN:HE22	1.49	0.58
1:4:702:THR:HG22	1:h:700:GLN:HB2	1.85	0.58
1:c:355:VAL:H	1:c:646:GLN:HE22	1.49	0.58
1:d:655:PRO:HD2	1:f:676:THR:HG21	1.85	0.58
1:d:676:THR:HG21	1:r:655:PRO:HD2	1.85	0.58
1:k:702:THR:HG22	1:r:700:GLN:HB2	1.85	0.58
1:l:252:TYR:OH	1:l:374:ILE:O	2.17	0.58
1:u:449:LYS:HB2	1:u:462:LYS:HB2	1.83	0.58
1:A:542:ILE:HD12	1:A:560:ILE:HG12	1.85	0.58
1:J:542:ILE:HD12	1:J:560:ILE:HG12	1.85	0.58
1:K:542:ILE:HD12	1:K:560:ILE:HG12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:676:THR:HG21	1:N:655:PRO:HD2	1.85	0.58
1:O:676:THR:HG21	1:P:655:PRO:HD2	1.85	0.58
1:Q:700:GLN:HB2	1:R:702:THR:HG22	1.85	0.58
1:T:252:TYR:OH	1:T:374:ILE:O	2.17	0.58
1:X:449:LYS:HB2	1:X:462:LYS:HB2	1.83	0.58
1:3:542:ILE:HD12	1:3:560:ILE:HG12	1.85	0.58
1:g:252:TYR:OH	1:g:374:ILE:O	2.17	0.58
1:i:449:LYS:HB2	1:i:462:LYS:HB2	1.83	0.58
1:t:655:PRO:HD2	1:x:676:THR:HG21	1.85	0.58
1:x:542:ILE:HD12	1:x:560:ILE:HG12	1.85	0.58
1:7:700:GLN:HB2	1:8:702:THR:HG22	1.86	0.58
1:K:676:THR:HG21	1:L:655:PRO:HD2	1.85	0.58
1:Y:700:GLN:HB2	1:Z:702:THR:HG22	1.86	0.58
1:g:355:VAL:H	1:g:646:GLN:HE22	1.49	0.58
1:v:542:ILE:HD12	1:v:560:ILE:HG12	1.85	0.58
1:L:252:TYR:OH	1:L:374:ILE:O	2.17	0.58
1:S:252:TYR:OH	1:S:374:ILE:O	2.17	0.58
1:X:542:ILE:HD12	1:X:560:ILE:HG12	1.85	0.58
1:t:252:TYR:OH	1:t:374:ILE:O	2.17	0.58
1:V:542:ILE:HD12	1:V:560:ILE:HG12	1.85	0.57
1:Z:542:ILE:HD12	1:Z:560:ILE:HG12	1.85	0.57
1:b:702:THR:HG22	1:e:700:GLN:HB2	1.85	0.57
1:i:542:ILE:HD12	1:i:560:ILE:HG12	1.85	0.57
1:p:252:TYR:OH	1:p:374:ILE:O	2.17	0.57
1:A:655:PRO:HD2	1:B:676:THR:HG21	1.85	0.57
1:D:700:GLN:HB2	1:M:702:THR:HG22	1.85	0.57
1:T:542:ILE:HD12	1:T:560:ILE:HG12	1.85	0.57
1:c:700:GLN:HB2	1:f:702:THR:HG22	1.86	0.57
1:d:542:ILE:HD12	1:d:560:ILE:HG12	1.85	0.57
1:g:542:ILE:HD12	1:g:560:ILE:HG12	1.85	0.57
1:j:542:ILE:HD12	1:j:560:ILE:HG12	1.85	0.57
1:B:542:ILE:HD12	1:B:560:ILE:HG12	1.85	0.57
1:C:355:VAL:H	1:C:646:GLN:HE22	1.49	0.57
1:V:655:PRO:HD2	1:W:676:THR:HG21	1.85	0.57
1:2:700:GLN:HB2	1:3:702:THR:HG22	1.85	0.57
1:5:702:THR:HG22	1:6:700:GLN:HB2	1.85	0.57
1:a:700:GLN:HB2	1:t:702:THR:HG22	1.85	0.57
1:j:655:PRO:HD2	1:z:676:THR:HG21	1.85	0.57
1:j:702:THR:HG22	1:m:700:GLN:HB2	1.86	0.57
1:8:542:ILE:HD12	1:8:560:ILE:HG12	1.85	0.57
1:A:252:TYR:OH	1:A:374:ILE:O	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:700:GLN:HB2	1:I:702:THR:HG22	1.86	0.57
1:C:700:GLN:HB2	1:L:702:THR:HG22	1.85	0.57
1:G:542:ILE:HD12	1:G:560:ILE:HG12	1.85	0.57
1:N:676:THR:HG21	1:g:655:PRO:HD2	1.86	0.57
1:P:542:ILE:HD12	1:P:560:ILE:HG12	1.85	0.57
1:Q:676:THR:HG21	1:S:655:PRO:HD2	1.85	0.57
1:U:700:GLN:HB2	1:V:702:THR:HG22	1.86	0.57
1:X:655:PRO:HD2	1:6:676:THR:HG21	1.85	0.57
1:l:655:PRO:HD2	1:r:676:THR:HG21	1.85	0.57
1:n:542:ILE:HD12	1:n:560:ILE:HG12	1.85	0.57
1:o:702:THR:HG22	1:u:700:GLN:HB2	1.86	0.57
1:p:655:PRO:HD2	1:u:676:THR:HG21	1.85	0.57
1:u:542:ILE:HD12	1:u:560:ILE:HG12	1.85	0.57
1:H:655:PRO:HD2	1:Z:676:THR:HG21	1.86	0.57
1:J:700:GLN:HB2	1:K:702:THR:HG22	1.86	0.57
1:K:430:GLN:HE22	1:1:353:PRO:HB3	1.70	0.57
1:S:542:ILE:HD12	1:S:560:ILE:HG12	1.85	0.57
1:U:676:THR:HG21	1:5:655:PRO:HD2	1.85	0.57
1:2:676:THR:HG21	1:i:655:PRO:HD2	1.85	0.57
1:l:542:ILE:HD12	1:l:560:ILE:HG12	1.85	0.57
1:q:355:VAL:H	1:q:646:GLN:HE22	1.49	0.57
1:v:700:GLN:HB2	1:x:702:THR:HG22	1.86	0.57
1:w:355:VAL:H	1:w:646:GLN:HE22	1.49	0.57
1:y:655:PRO:HD2	1:8:676:THR:HG21	1.86	0.57
1:Q:702:THR:HG22	1:R:700:GLN:HB2	1.86	0.57
1:U:355:VAL:H	1:U:646:GLN:HE22	1.49	0.57
1:1:355:VAL:H	1:1:646:GLN:HE22	1.49	0.57
1:2:542:ILE:HD12	1:2:560:ILE:HG12	1.85	0.57
1:3:655:PRO:HD2	1:m:676:THR:HG21	1.85	0.57
1:4:355:VAL:H	1:4:646:GLN:HE22	1.49	0.57
1:c:702:THR:HG22	1:f:700:GLN:HB2	1.85	0.57
1:m:355:VAL:H	1:m:646:GLN:HE22	1.49	0.57
1:C:553:VAL:CG1	1:C:557:LYS:HB2	2.35	0.57
1:E:355:VAL:H	1:E:646:GLN:HE22	1.49	0.57
1:N:702:THR:HG22	1:O:700:GLN:HB2	1.85	0.57
1:a:553:VAL:CG1	1:a:557:LYS:HB2	2.35	0.57
1:k:700:GLN:HB2	1:r:702:THR:HG22	1.86	0.57
1:G:700:GLN:HB2	1:H:702:THR:HG22	1.86	0.57
1:O:553:VAL:CG1	1:O:557:LYS:HB2	2.35	0.57
1:T:655:PRO:HD2	1:c:676:THR:HG21	1.86	0.57
1:X:676:THR:HG21	1:Y:655:PRO:HD2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:542:ILE:HD12	1:4:560:ILE:HG12	1.85	0.57
1:4:553:VAL:CG1	1:4:557:LYS:HB2	2.35	0.57
1:6:542:ILE:HD12	1:6:560:ILE:HG12	1.85	0.57
1:h:542:ILE:HD12	1:h:560:ILE:HG12	1.85	0.57
1:h:553:VAL:CG1	1:h:557:LYS:HB2	2.35	0.57
1:i:676:THR:HG21	1:7:655:PRO:HD2	1.85	0.57
1:n:700:GLN:HB2	1:y:702:THR:HG22	1.86	0.57
1:o:430:GLN:HE22	1:p:353:PRO:HB3	1.70	0.57
1:R:553:VAL:CG1	1:R:557:LYS:HB2	2.35	0.57
1:V:553:VAL:CG1	1:V:557:LYS:HB2	2.35	0.57
1:Y:676:THR:HG21	1:x:655:PRO:HD2	1.85	0.57
1:f:553:VAL:CG1	1:f:557:LYS:HB2	2.35	0.57
1:h:355:VAL:H	1:h:646:GLN:HE22	1.49	0.57
1:k:553:VAL:CG1	1:k:557:LYS:HB2	2.35	0.57
1:p:702:THR:HG22	1:s:700:GLN:HB2	1.85	0.57
1:A:353:PRO:HB3	1:I:430:GLN:HE22	1.70	0.57
1:G:553:VAL:CG1	1:G:557:LYS:HB2	2.35	0.57
1:J:553:VAL:CG1	1:J:557:LYS:HB2	2.35	0.57
1:K:655:PRO:HD2	1:7:676:THR:HG21	1.85	0.57
1:X:553:VAL:CG1	1:X:557:LYS:HB2	2.35	0.57
1:2:553:VAL:CG1	1:2:557:LYS:HB2	2.35	0.57
1:a:542:ILE:HD12	1:a:560:ILE:HG12	1.85	0.57
1:c:553:VAL:CG1	1:c:557:LYS:HB2	2.35	0.57
1:i:553:VAL:CG1	1:i:557:LYS:HB2	2.35	0.57
1:j:553:VAL:CG1	1:j:557:LYS:HB2	2.35	0.57
1:v:553:VAL:CG1	1:v:557:LYS:HB2	2.35	0.57
1:A:702:THR:HG22	1:F:700:GLN:HB2	1.86	0.56
1:C:542:ILE:HD12	1:C:560:ILE:HG12	1.85	0.56
1:F:353:PRO:HB3	1:Q:430:GLN:HE22	1.70	0.56
1:F:553:VAL:CG1	1:F:557:LYS:HB2	2.35	0.56
1:J:716:ASN:HB3	1:J:720:VAL:H	1.71	0.56
1:K:716:ASN:HB3	1:K:720:VAL:H	1.70	0.56
1:N:553:VAL:CG1	1:N:557:LYS:HB2	2.35	0.56
1:V:716:ASN:HB3	1:V:720:VAL:H	1.71	0.56
1:W:553:VAL:CG1	1:W:557:LYS:HB2	2.35	0.56
1:6:553:VAL:CG1	1:6:557:LYS:HB2	2.35	0.56
1:c:252:TYR:OH	1:c:374:ILE:O	2.17	0.56
1:j:716:ASN:HB3	1:j:720:VAL:H	1.71	0.56
1:n:553:VAL:CG1	1:n:557:LYS:HB2	2.35	0.56
1:o:553:VAL:CG1	1:o:557:LYS:HB2	2.35	0.56
1:r:553:VAL:CG1	1:r:557:LYS:HB2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:716:ASN:HB3	1:v:720:VAL:H	1.71	0.56
1:B:430:GLN:HE22	1:J:353:PRO:HB3	1.70	0.56
1:G:430:GLN:HE22	1:I:353:PRO:HB3	1.70	0.56
1:I:553:VAL:CG1	1:I:557:LYS:HB2	2.35	0.56
1:N:252:TYR:OH	1:N:374:ILE:O	2.17	0.56
1:P:716:ASN:HB3	1:P:720:VAL:H	1.70	0.56
1:Q:553:VAL:CG1	1:Q:557:LYS:HB2	2.35	0.56
1:U:553:VAL:CG1	1:U:557:LYS:HB2	2.35	0.56
1:Z:716:ASN:HB3	1:Z:720:VAL:H	1.70	0.56
1:d:702:THR:HG22	1:q:700:GLN:HB2	1.86	0.56
1:d:716:ASN:HB3	1:d:720:VAL:H	1.70	0.56
1:m:553:VAL:CG1	1:m:557:LYS:HB2	2.35	0.56
1:n:430:GLN:HE22	1:o:353:PRO:HB3	1.70	0.56
1:r:430:GLN:HE22	1:s:353:PRO:HB3	1.70	0.56
1:s:553:VAL:CG1	1:s:557:LYS:HB2	2.35	0.56
1:x:716:ASN:HB3	1:x:720:VAL:H	1.70	0.56
1:7:553:VAL:CG1	1:7:557:LYS:HB2	2.35	0.56
1:C:430:GLN:HE22	1:2:353:PRO:HB3	1.70	0.56
1:E:700:GLN:HB2	1:P:702:THR:HG22	1.86	0.56
1:G:702:THR:HG22	1:H:700:GLN:HB2	1.86	0.56
1:H:353:PRO:HB3	1:Y:430:GLN:HE22	1.70	0.56
1:I:716:ASN:HB3	1:I:720:VAL:H	1.71	0.56
1:K:553:VAL:CG1	1:K:557:LYS:HB2	2.35	0.56
1:L:676:THR:HG21	1:2:655:PRO:HD2	1.85	0.56
1:L:716:ASN:HB3	1:L:720:VAL:H	1.71	0.56
1:P:553:VAL:CG1	1:P:557:LYS:HB2	2.35	0.56
1:W:716:ASN:HB3	1:W:720:VAL:H	1.71	0.56
1:Y:553:VAL:CG1	1:Y:557:LYS:HB2	2.35	0.56
1:Z:655:PRO:HD2	1:1:676:THR:HG21	1.85	0.56
1:1:252:TYR:OH	1:1:374:ILE:O	2.17	0.56
1:3:430:GLN:HE22	1:i:353:PRO:HB3	1.70	0.56
1:5:716:ASN:HB3	1:5:720:VAL:H	1.71	0.56
1:6:353:PRO:HB3	1:a:430:GLN:HE22	1.70	0.56
1:6:655:PRO:HD2	1:t:676:THR:HG21	1.85	0.56
1:g:430:GLN:HE22	1:h:353:PRO:HB3	1.70	0.56
1:n:702:THR:HG22	1:y:700:GLN:HB2	1.86	0.56
1:o:716:ASN:HB3	1:o:720:VAL:H	1.71	0.56
1:t:716:ASN:HB3	1:t:720:VAL:H	1.71	0.56
1:u:430:GLN:HE22	1:v:353:PRO:HB3	1.70	0.56
1:x:553:VAL:CG1	1:x:557:LYS:HB2	2.35	0.56
1:y:353:PRO:HB3	1:7:430:GLN:HE22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:553:VAL:CG1	1:z:557:LYS:HB2	2.35	0.56
1:z:716:ASN:HB3	1:z:720:VAL:H	1.71	0.56
1:8:716:ASN:HB3	1:8:720:VAL:H	1.70	0.56
1:H:542:ILE:HD12	1:H:560:ILE:HG12	1.85	0.56
1:X:353:PRO:HB3	1:5:430:GLN:HE22	1.70	0.56
1:3:716:ASN:HB3	1:3:720:VAL:H	1.71	0.56
1:4:716:ASN:HB3	1:4:720:VAL:H	1.71	0.56
1:d:553:VAL:CG1	1:d:557:LYS:HB2	2.35	0.56
1:h:716:ASN:HB3	1:h:720:VAL:H	1.71	0.56
1:w:676:THR:HG21	1:8:655:PRO:HD2	1.85	0.56
1:y:542:ILE:HD12	1:y:560:ILE:HG12	1.85	0.56
1:R:353:PRO:HB3	1:U:430:GLN:HE22	1.70	0.56
1:T:430:GLN:HE22	1:4:353:PRO:HB3	1.70	0.56
1:U:716:ASN:HB3	1:U:720:VAL:H	1.71	0.56
1:e:553:VAL:CG1	1:e:557:LYS:HB2	2.35	0.56
1:o:355:VAL:H	1:o:646:GLN:HE22	1.49	0.56
1:y:716:ASN:HB3	1:y:720:VAL:H	1.70	0.56
1:D:553:VAL:CG1	1:D:557:LYS:HB2	2.35	0.56
1:H:252:TYR:OH	1:H:374:ILE:O	2.17	0.56
1:H:716:ASN:HB3	1:H:720:VAL:H	1.70	0.56
1:S:716:ASN:HB3	1:S:720:VAL:H	1.71	0.56
1:c:716:ASN:HB3	1:c:720:VAL:H	1.70	0.56
1:e:716:ASN:HB3	1:e:720:VAL:H	1.70	0.56
1:g:716:ASN:HB3	1:g:720:VAL:H	1.70	0.56
1:k:353:PRO:HB3	1:m:430:GLN:HE22	1.70	0.56
1:l:716:ASN:HB3	1:l:720:VAL:H	1.71	0.56
1:m:716:ASN:HB3	1:m:720:VAL:H	1.71	0.56
1:w:252:TYR:OH	1:w:374:ILE:O	2.17	0.56
1:y:252:TYR:OH	1:y:374:ILE:O	2.17	0.56
1:y:553:VAL:CG1	1:y:557:LYS:HB2	2.35	0.56
1:A:716:ASN:HB3	1:A:720:VAL:H	1.71	0.56
1:C:353:PRO:HB3	1:M:430:GLN:HE22	1.70	0.56
1:H:553:VAL:CG1	1:H:557:LYS:HB2	2.35	0.56
1:I:355:VAL:H	1:I:646:GLN:HE22	1.49	0.56
1:T:716:ASN:HB3	1:T:720:VAL:H	1.71	0.56
1:1:430:GLN:HE22	1:8:353:PRO:HB3	1.70	0.56
1:a:353:PRO:HB3	1:b:430:GLN:HE22	1.70	0.56
1:p:716:ASN:HB3	1:p:720:VAL:H	1.71	0.56
1:D:716:ASN:HB3	1:D:720:VAL:H	1.71	0.56
1:K:353:PRO:HB3	1:8:430:GLN:HE22	1.70	0.56
1:L:302:ILE:HG22	1:L:729:THR:HG23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:716:ASN:HB3	1:N:720:VAL:H	1.71	0.56
1:Z:430:GLN:HE22	1:x:353:PRO:HB3	1.70	0.56
1:5:553:VAL:CG1	1:5:557:LYS:HB2	2.35	0.56
1:d:430:GLN:HE22	1:e:353:PRO:HB3	1.70	0.56
1:i:716:ASN:HB3	1:i:720:VAL:H	1.70	0.56
1:q:252:TYR:OH	1:q:374:ILE:O	2.17	0.56
1:t:302:ILE:HG22	1:t:729:THR:HG23	1.88	0.56
1:w:553:VAL:CG1	1:w:557:LYS:HB2	2.35	0.56
1:D:353:PRO:HB3	1:P:430:GLN:HE22	1.70	0.56
1:E:553:VAL:CG1	1:E:557:LYS:HB2	2.35	0.56
1:F:302:ILE:HG22	1:F:729:THR:HG23	1.88	0.56
1:G:716:ASN:HB3	1:G:720:VAL:H	1.71	0.56
1:Q:716:ASN:HB3	1:Q:720:VAL:H	1.71	0.56
1:T:553:VAL:CG1	1:T:557:LYS:HB2	2.35	0.56
1:W:430:GLN:HE22	1:Y:353:PRO:HB3	1.71	0.56
1:X:302:ILE:HG22	1:X:729:THR:HG23	1.88	0.56
1:Z:353:PRO:HB3	1:w:430:GLN:HE22	1.70	0.56
1:1:553:VAL:CG1	1:1:557:LYS:HB2	2.35	0.56
1:3:553:VAL:CG1	1:3:557:LYS:HB2	2.35	0.56
1:c:398:GLU:OE2	1:c:650:LYS:HE2	2.06	0.56
1:g:553:VAL:CG1	1:g:557:LYS:HB2	2.35	0.56
1:i:302:ILE:HG22	1:i:729:THR:HG23	1.88	0.56
1:l:553:VAL:CG1	1:l:557:LYS:HB2	2.35	0.56
1:n:716:ASN:HB3	1:n:720:VAL:H	1.71	0.56
1:s:302:ILE:HG22	1:s:729:THR:HG23	1.88	0.56
1:t:553:VAL:CG1	1:t:557:LYS:HB2	2.35	0.56
1:D:485:ARG:HD3	1:P:581:ALA:O	2.06	0.56
1:K:485:ARG:HD3	1:8:581:ALA:O	2.07	0.56
1:L:553:VAL:CG1	1:L:557:LYS:HB2	2.35	0.56
1:N:398:GLU:OE2	1:N:650:LYS:HE2	2.06	0.56
1:R:485:ARG:HD3	1:U:581:ALA:O	2.06	0.56
1:S:553:VAL:CG1	1:S:557:LYS:HB2	2.35	0.56
1:X:716:ASN:HB3	1:X:720:VAL:H	1.70	0.56
1:Z:485:ARG:HD3	1:w:581:ALA:O	2.06	0.56
1:b:553:VAL:CG1	1:b:557:LYS:HB2	2.35	0.56
1:p:302:ILE:HG22	1:p:729:THR:HG23	1.88	0.56
1:q:353:PRO:HB3	1:s:430:GLN:HE22	1.70	0.56
1:q:553:VAL:CG1	1:q:557:LYS:HB2	2.35	0.56
1:r:716:ASN:HB3	1:r:720:VAL:H	1.71	0.56
1:z:430:GLN:HE22	1:7:353:PRO:HB3	1.71	0.56
1:A:302:ILE:HG22	1:A:729:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:VAL:CG1	1:A:557:LYS:HB2	2.35	0.55
1:B:553:VAL:CG1	1:B:557:LYS:HB2	2.35	0.55
1:E:353:PRO:HB3	1:F:430:GLN:HE22	1.70	0.55
1:E:430:GLN:HE22	1:Q:353:PRO:HB3	1.70	0.55
1:M:305:ASN:O	1:M:425:SER:OG	2.24	0.55
1:M:553:VAL:CG1	1:M:557:LYS:HB2	2.35	0.55
1:O:305:ASN:O	1:O:425:SER:OG	2.24	0.55
1:O:353:PRO:HB3	1:h:430:GLN:HE22	1.70	0.55
1:O:398:GLU:OE2	1:O:650:LYS:HE2	2.07	0.55
1:R:339:THR:CG2	1:V:407:THR:HG21	2.37	0.55
1:T:353:PRO:HB3	1:f:430:GLN:HE22	1.70	0.55
1:X:485:ARG:HD3	1:5:581:ALA:O	2.06	0.55
1:Z:581:ALA:O	1:x:485:ARG:HD3	2.07	0.55
1:2:716:ASN:HB3	1:2:720:VAL:H	1.71	0.55
1:3:581:ALA:O	1:i:485:ARG:HD3	2.06	0.55
1:d:581:ALA:O	1:e:485:ARG:HD3	2.07	0.55
1:f:398:GLU:OE2	1:f:650:LYS:HE2	2.06	0.55
1:j:407:THR:HG21	1:k:339:THR:CG2	2.37	0.55
1:k:485:ARG:HD3	1:m:581:ALA:O	2.06	0.55
1:x:302:ILE:HG22	1:x:729:THR:HG23	1.88	0.55
1:8:553:VAL:CG1	1:8:557:LYS:HB2	2.35	0.55
1:F:407:THR:HG21	1:G:339:THR:CG2	2.37	0.55
1:I:305:ASN:O	1:I:425:SER:OG	2.25	0.55
1:K:302:ILE:HG22	1:K:729:THR:HG23	1.88	0.55
1:O:302:ILE:HG22	1:O:729:THR:HG23	1.88	0.55
1:O:430:GLN:HE22	1:g:353:PRO:HB3	1.70	0.55
1:R:716:ASN:HB3	1:R:720:VAL:H	1.70	0.55
1:S:398:GLU:OE2	1:S:650:LYS:HE2	2.06	0.55
1:Z:553:VAL:CG1	1:Z:557:LYS:HB2	2.35	0.55
1:1:581:ALA:O	1:8:485:ARG:HD3	2.06	0.55
1:3:485:ARG:HD3	1:j:581:ALA:O	2.06	0.55
1:4:581:ALA:O	1:f:485:ARG:HD3	2.06	0.55
1:6:716:ASN:HB3	1:6:720:VAL:H	1.71	0.55
1:f:305:ASN:O	1:f:425:SER:OG	2.25	0.55
1:n:339:THR:CG2	1:s:407:THR:HG21	2.37	0.55
1:o:305:ASN:O	1:o:425:SER:OG	2.25	0.55
1:p:305:ASN:O	1:p:425:SER:OG	2.25	0.55
1:q:430:GLN:HE22	1:r:353:PRO:HB3	1.70	0.55
1:s:716:ASN:HB3	1:s:720:VAL:H	1.71	0.55
1:u:553:VAL:CG1	1:u:557:LYS:HB2	2.35	0.55
1:7:302:ILE:HG22	1:7:729:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:581:ALA:O	1:2:485:ARG:HD3	2.06	0.55
1:J:581:ALA:O	1:L:485:ARG:HD3	2.07	0.55
1:K:407:THR:HG21	1:L:339:THR:CG2	2.37	0.55
1:V:485:ARG:HD3	1:X:581:ALA:O	2.07	0.55
1:V:581:ALA:O	1:5:485:ARG:HD3	2.06	0.55
1:W:581:ALA:O	1:Y:485:ARG:HD3	2.07	0.55
1:4:430:GLN:HE22	1:f:353:PRO:HB3	1.70	0.55
1:5:398:GLU:OE2	1:5:650:LYS:HE2	2.07	0.55
1:b:305:ASN:O	1:b:425:SER:OG	2.25	0.55
1:i:581:ALA:O	1:j:485:ARG:HD3	2.07	0.55
1:k:716:ASN:HB3	1:k:720:VAL:H	1.70	0.55
1:l:398:GLU:OE2	1:l:650:LYS:HE2	2.06	0.55
1:n:398:GLU:OE2	1:n:650:LYS:HE2	2.07	0.55
1:p:553:VAL:CG1	1:p:557:LYS:HB2	2.35	0.55
1:t:339:THR:CG2	1:x:407:THR:HG21	2.37	0.55
1:t:485:ARG:HD3	1:v:581:ALA:O	2.07	0.55
1:w:302:ILE:HG22	1:w:729:THR:HG23	1.88	0.55
1:z:398:GLU:OE2	1:z:650:LYS:HE2	2.06	0.55
1:A:219:ASP:N	1:A:408:GLY:O	2.40	0.55
1:B:398:GLU:OE2	1:B:650:LYS:HE2	2.06	0.55
1:C:485:ARG:HD3	1:M:581:ALA:O	2.07	0.55
1:F:716:ASN:HB3	1:F:720:VAL:H	1.71	0.55
1:G:398:GLU:OE2	1:G:650:LYS:HE2	2.07	0.55
1:G:581:ALA:O	1:I:485:ARG:HD3	2.07	0.55
1:I:302:ILE:HG22	1:I:729:THR:HG23	1.88	0.55
1:I:407:THR:HG21	1:J:339:THR:CG2	2.37	0.55
1:J:329:ASN:OD1	1:J:331:VAL:HG12	2.07	0.55
1:M:716:ASN:HB3	1:M:720:VAL:H	1.70	0.55
1:O:219:ASP:N	1:O:408:GLY:O	2.40	0.55
1:O:485:ARG:HD3	1:h:581:ALA:O	2.06	0.55
1:S:219:ASP:N	1:S:408:GLY:O	2.40	0.55
1:V:398:GLU:OE2	1:V:650:LYS:HE2	2.06	0.55
1:W:398:GLU:OE2	1:W:650:LYS:HE2	2.06	0.55
1:Y:302:ILE:HG22	1:Y:729:THR:HG23	1.88	0.55
1:Y:398:GLU:OE2	1:Y:650:LYS:HE2	2.06	0.55
1:Y:716:ASN:HB3	1:Y:720:VAL:H	1.70	0.55
1:1:302:ILE:HG22	1:1:729:THR:HG23	1.88	0.55
1:3:398:GLU:OE2	1:3:650:LYS:HE2	2.07	0.55
1:6:485:ARG:HD3	1:a:581:ALA:O	2.06	0.55
1:6:581:ALA:O	1:b:485:ARG:HD3	2.06	0.55
1:c:581:ALA:O	1:d:485:ARG:HD3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:219:ASP:N	1:f:408:GLY:O	2.40	0.55
1:f:302:ILE:HG22	1:f:729:THR:HG23	1.88	0.55
1:j:398:GLU:OE2	1:j:650:LYS:HE2	2.06	0.55
1:l:219:ASP:N	1:l:408:GLY:O	2.40	0.55
1:o:302:ILE:HG22	1:o:729:THR:HG23	1.88	0.55
1:o:407:THR:HG21	1:v:339:THR:CG2	2.37	0.55
1:p:219:ASP:N	1:p:408:GLY:O	2.40	0.55
1:u:398:GLU:OE2	1:u:650:LYS:HE2	2.06	0.55
1:y:305:ASN:O	1:y:425:SER:OG	2.24	0.55
1:z:581:ALA:O	1:7:485:ARG:HD3	2.07	0.55
1:E:219:ASP:N	1:E:408:GLY:O	2.40	0.55
1:E:485:ARG:HD3	1:F:581:ALA:O	2.06	0.55
1:J:398:GLU:OE2	1:J:650:LYS:HE2	2.06	0.55
1:M:302:ILE:HG22	1:M:729:THR:HG23	1.88	0.55
1:M:329:ASN:OD1	1:M:331:VAL:HG12	2.07	0.55
1:M:485:ARG:HD3	1:2:581:ALA:O	2.06	0.55
1:N:430:GLN:HE22	1:P:353:PRO:HB3	1.70	0.55
1:O:716:ASN:HB3	1:O:720:VAL:H	1.70	0.55
1:P:252:TYR:OH	1:P:374:ILE:O	2.17	0.55
1:Q:302:ILE:HG22	1:Q:729:THR:HG23	1.88	0.55
1:S:430:GLN:HE22	1:U:353:PRO:HB3	1.70	0.55
1:T:302:ILE:HG22	1:T:729:THR:HG23	1.88	0.55
1:V:353:PRO:HB3	1:X:430:GLN:HE22	1.70	0.55
1:1:329:ASN:OD1	1:1:331:VAL:HG12	2.07	0.55
1:1:398:GLU:OE2	1:1:650:LYS:HE2	2.07	0.55
1:a:485:ARG:HD3	1:b:581:ALA:O	2.07	0.55
1:b:302:ILE:HG22	1:b:729:THR:HG23	1.88	0.55
1:b:329:ASN:OD1	1:b:331:VAL:HG12	2.07	0.55
1:g:302:ILE:HG22	1:g:729:THR:HG23	1.88	0.55
1:i:430:GLN:HE22	1:j:353:PRO:HB3	1.70	0.55
1:l:430:GLN:HE22	1:m:353:PRO:HB3	1.70	0.55
1:n:581:ALA:O	1:o:485:ARG:HD3	2.07	0.55
1:q:219:ASP:N	1:q:408:GLY:O	2.40	0.55
1:r:302:ILE:HG22	1:r:729:THR:HG23	1.88	0.55
1:v:329:ASN:OD1	1:v:331:VAL:HG12	2.07	0.55
1:v:398:GLU:OE2	1:v:650:LYS:HE2	2.06	0.55
1:w:398:GLU:OE2	1:w:650:LYS:HE2	2.07	0.55
1:7:398:GLU:OE2	1:7:650:LYS:HE2	2.06	0.55
1:A:407:THR:HG21	1:E:339:THR:CG2	2.36	0.55
1:A:485:ARG:HD3	1:I:581:ALA:O	2.06	0.55
1:F:398:GLU:OE2	1:F:650:LYS:HE2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:407:THR:HG21	1:1:339:THR:CG2	2.37	0.55
1:K:581:ALA:O	1:1:485:ARG:HD3	2.07	0.55
1:N:302:ILE:HG22	1:N:729:THR:HG23	1.88	0.55
1:N:329:ASN:OD1	1:N:331:VAL:HG12	2.07	0.55
1:T:398:GLU:OE2	1:T:650:LYS:HE2	2.06	0.55
1:Z:329:ASN:OD1	1:Z:331:VAL:HG12	2.07	0.55
1:a:398:GLU:OE2	1:a:650:LYS:HE2	2.06	0.55
1:c:329:ASN:OD1	1:c:331:VAL:HG12	2.07	0.55
1:d:398:GLU:OE2	1:d:650:LYS:HE2	2.06	0.55
1:e:302:ILE:HG22	1:e:729:THR:HG23	1.88	0.55
1:f:716:ASN:HB3	1:f:720:VAL:H	1.70	0.55
1:j:302:ILE:HG22	1:j:729:THR:HG23	1.88	0.55
1:p:407:THR:HG21	1:q:339:THR:CG2	2.37	0.55
1:q:485:ARG:HD3	1:s:581:ALA:O	2.06	0.55
1:s:398:GLU:OE2	1:s:650:LYS:HE2	2.07	0.55
1:u:716:ASN:HB3	1:u:720:VAL:H	1.70	0.55
1:v:407:THR:HG21	1:w:339:THR:CG2	2.37	0.55
1:w:329:ASN:OD1	1:w:331:VAL:HG12	2.07	0.55
1:w:716:ASN:HB3	1:w:720:VAL:H	1.71	0.55
1:z:219:ASP:N	1:z:408:GLY:O	2.40	0.55
1:7:716:ASN:HB3	1:7:720:VAL:H	1.70	0.55
1:8:329:ASN:OD1	1:8:331:VAL:HG12	2.07	0.55
1:8:398:GLU:OE2	1:8:650:LYS:HE2	2.06	0.55
1:B:302:ILE:HG22	1:B:729:THR:HG23	1.88	0.55
1:B:485:ARG:HD3	1:L:581:ALA:O	2.06	0.55
1:B:716:ASN:HB3	1:B:720:VAL:H	1.70	0.55
1:C:398:GLU:OE2	1:C:650:LYS:HE2	2.06	0.55
1:D:302:ILE:HG22	1:D:729:THR:HG23	1.88	0.55
1:H:302:ILE:HG22	1:H:729:THR:HG23	1.88	0.55
1:H:398:GLU:OE2	1:H:650:LYS:HE2	2.06	0.55
1:H:581:ALA:O	1:W:485:ARG:HD3	2.06	0.55
1:P:398:GLU:OE2	1:P:650:LYS:HE2	2.06	0.55
1:Q:219:ASP:N	1:Q:408:GLY:O	2.40	0.55
1:S:302:ILE:HG22	1:S:729:THR:HG23	1.88	0.55
1:U:302:ILE:HG22	1:U:729:THR:HG23	1.88	0.55
1:U:305:ASN:O	1:U:425:SER:OG	2.24	0.55
1:V:302:ILE:HG22	1:V:729:THR:HG23	1.88	0.55
1:W:219:ASP:N	1:W:408:GLY:O	2.40	0.55
1:Z:398:GLU:OE2	1:Z:650:LYS:HE2	2.06	0.55
1:a:305:ASN:O	1:a:425:SER:OG	2.24	0.55
1:a:407:THR:HG21	1:u:339:THR:CG2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:716:ASN:HB3	1:b:720:VAL:H	1.71	0.55
1:d:252:TYR:OH	1:d:374:ILE:O	2.17	0.55
1:e:339:THR:CG2	1:q:407:THR:HG21	2.37	0.55
1:g:398:GLU:OE2	1:g:650:LYS:HE2	2.06	0.55
1:k:219:ASP:N	1:k:408:GLY:O	2.40	0.55
1:l:302:ILE:HG22	1:l:729:THR:HG23	1.88	0.55
1:l:339:THR:CG2	1:r:407:THR:HG21	2.37	0.55
1:m:302:ILE:HG22	1:m:729:THR:HG23	1.88	0.55
1:n:219:ASP:N	1:n:408:GLY:O	2.40	0.55
1:q:716:ASN:HB3	1:q:720:VAL:H	1.71	0.55
1:w:485:ARG:HD3	1:x:581:ALA:O	2.07	0.55
1:y:302:ILE:HG22	1:y:729:THR:HG23	1.88	0.55
1:y:329:ASN:OD1	1:y:331:VAL:HG12	2.07	0.55
1:y:581:ALA:O	1:z:485:ARG:HD3	2.06	0.55
1:B:339:THR:CG2	1:C:407:THR:HG21	2.37	0.55
1:C:219:ASP:N	1:C:408:GLY:O	2.40	0.55
1:C:305:ASN:O	1:C:425:SER:OG	2.24	0.55
1:E:716:ASN:HB3	1:E:720:VAL:H	1.71	0.55
1:G:219:ASP:N	1:G:408:GLY:O	2.40	0.55
1:G:407:THR:HG21	1:W:339:THR:CG2	2.37	0.55
1:H:329:ASN:OD1	1:H:331:VAL:HG12	2.07	0.55
1:M:339:THR:CG2	1:3:407:THR:HG21	2.37	0.55
1:O:407:THR:HG21	1:P:339:THR:CG2	2.37	0.55
1:Q:398:GLU:OE2	1:Q:650:LYS:HE2	2.06	0.55
1:Q:407:THR:HG21	1:S:339:THR:CG2	2.37	0.55
1:R:219:ASP:N	1:R:408:GLY:O	2.40	0.55
1:U:398:GLU:OE2	1:U:650:LYS:HE2	2.07	0.55
1:1:716:ASN:HB3	1:1:720:VAL:H	1.71	0.55
1:3:219:ASP:N	1:3:408:GLY:O	2.40	0.55
1:5:219:ASP:N	1:5:408:GLY:O	2.40	0.55
1:5:302:ILE:HG22	1:5:729:THR:HG23	1.88	0.55
1:5:329:ASN:OD1	1:5:331:VAL:HG12	2.07	0.55
1:a:219:ASP:N	1:a:408:GLY:O	2.40	0.55
1:b:398:GLU:OE2	1:b:650:LYS:HE2	2.06	0.55
1:c:219:ASP:N	1:c:408:GLY:O	2.40	0.55
1:c:302:ILE:HG22	1:c:729:THR:HG23	1.88	0.55
1:d:339:THR:CG2	1:f:407:THR:HG21	2.37	0.55
1:f:339:THR:CG2	1:h:407:THR:HG21	2.37	0.55
1:h:305:ASN:O	1:h:425:SER:OG	2.25	0.55
1:k:407:THR:HG21	1:s:339:THR:CG2	2.37	0.55
1:m:305:ASN:O	1:m:425:SER:OG	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:302:ILE:HG22	1:n:729:THR:HG23	1.88	0.55
1:n:407:THR:HG21	1:z:339:THR:CG2	2.37	0.55
1:o:581:ALA:O	1:p:485:ARG:HD3	2.07	0.55
1:r:219:ASP:N	1:r:408:GLY:O	2.40	0.55
1:t:353:PRO:HB3	1:v:430:GLN:HE22	1.70	0.55
1:t:581:ALA:O	1:u:485:ARG:HD3	2.06	0.55
1:u:302:ILE:HG22	1:u:729:THR:HG23	1.88	0.55
1:w:219:ASP:N	1:w:408:GLY:O	2.40	0.55
1:w:353:PRO:HB3	1:x:430:GLN:HE22	1.70	0.55
1:D:339:THR:CG2	1:E:407:THR:HG21	2.37	0.55
1:F:339:THR:CG2	1:R:407:THR:HG21	2.37	0.55
1:H:339:THR:CG2	1:Z:407:THR:HG21	2.37	0.55
1:H:485:ARG:HD3	1:Y:581:ALA:O	2.07	0.55
1:N:219:ASP:N	1:N:408:GLY:O	2.40	0.55
1:O:339:THR:CG2	1:4:407:THR:HG21	2.37	0.55
1:P:329:ASN:OD1	1:P:331:VAL:HG12	2.07	0.55
1:R:398:GLU:OE2	1:R:650:LYS:HE2	2.06	0.55
1:T:581:ALA:O	1:4:485:ARG:HD3	2.07	0.55
1:X:329:ASN:OD1	1:X:331:VAL:HG12	2.07	0.55
1:1:219:ASP:N	1:1:408:GLY:O	2.40	0.55
1:2:302:ILE:HG22	1:2:729:THR:HG23	1.88	0.55
1:3:302:ILE:HG22	1:3:729:THR:HG23	1.88	0.55
1:3:329:ASN:OD1	1:3:331:VAL:HG12	2.07	0.55
1:4:305:ASN:O	1:4:425:SER:OG	2.25	0.55
1:4:329:ASN:OD1	1:4:331:VAL:HG12	2.07	0.55
1:5:407:THR:HG21	1:b:339:THR:CG2	2.37	0.55
1:6:302:ILE:HG22	1:6:729:THR:HG23	1.88	0.55
1:a:329:ASN:OD1	1:a:331:VAL:HG12	2.07	0.55
1:d:329:ASN:OD1	1:d:331:VAL:HG12	2.07	0.55
1:g:581:ALA:O	1:h:485:ARG:HD3	2.07	0.55
1:k:398:GLU:OE2	1:k:650:LYS:HE2	2.06	0.55
1:m:398:GLU:OE2	1:m:650:LYS:HE2	2.07	0.55
1:n:329:ASN:OD1	1:n:331:VAL:HG12	2.07	0.55
1:p:329:ASN:OD1	1:p:331:VAL:HG12	2.07	0.55
1:t:219:ASP:N	1:t:408:GLY:O	2.40	0.55
1:y:398:GLU:OE2	1:y:650:LYS:HE2	2.06	0.55
1:y:485:ARG:HD3	1:7:581:ALA:O	2.07	0.55
1:A:329:ASN:OD1	1:A:331:VAL:HG12	2.07	0.55
1:B:329:ASN:OD1	1:B:331:VAL:HG12	2.07	0.55
1:C:329:ASN:OD1	1:C:331:VAL:HG12	2.07	0.55
1:C:716:ASN:HB3	1:C:720:VAL:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:497:ASN:HD21	1:F:590:GLN:HG2	1.72	0.55
1:F:329:ASN:OD1	1:F:331:VAL:HG12	2.07	0.55
1:G:302:ILE:HG22	1:G:729:THR:HG23	1.88	0.55
1:G:329:ASN:OD1	1:G:331:VAL:HG12	2.07	0.55
1:J:430:GLN:HE22	1:L:353:PRO:HB3	1.70	0.55
1:K:219:ASP:N	1:K:408:GLY:O	2.40	0.55
1:L:219:ASP:N	1:L:408:GLY:O	2.40	0.55
1:L:305:ASN:O	1:L:425:SER:OG	2.24	0.55
1:M:398:GLU:OE2	1:M:650:LYS:HE2	2.06	0.55
1:R:302:ILE:HG22	1:R:729:THR:HG23	1.88	0.55
1:U:219:ASP:N	1:U:408:GLY:O	2.40	0.55
1:X:398:GLU:OE2	1:X:650:LYS:HE2	2.06	0.55
1:4:219:ASP:N	1:4:408:GLY:O	2.40	0.55
1:b:368:PRO:HB2	1:c:398:GLU:HB2	1.89	0.55
1:h:329:ASN:OD1	1:h:331:VAL:HG12	2.07	0.55
1:i:329:ASN:OD1	1:i:331:VAL:HG12	2.07	0.55
1:k:302:ILE:HG22	1:k:729:THR:HG23	1.88	0.55
1:p:398:GLU:OE2	1:p:650:LYS:HE2	2.07	0.55
1:r:398:GLU:OE2	1:r:650:LYS:HE2	2.06	0.55
1:u:581:ALA:O	1:v:485:ARG:HD3	2.07	0.55
1:w:305:ASN:O	1:w:425:SER:OG	2.25	0.55
1:y:339:THR:CG2	1:8:407:THR:HG21	2.37	0.55
1:A:339:THR:CG2	1:B:407:THR:HG21	2.37	0.54
1:A:398:GLU:OE2	1:A:650:LYS:HE2	2.07	0.54
1:B:581:ALA:O	1:J:485:ARG:HD3	2.07	0.54
1:D:430:GLN:HE22	1:N:353:PRO:HB3	1.70	0.54
1:G:305:ASN:O	1:G:425:SER:OG	2.24	0.54
1:M:383:ASN:ND2	1:M:385:GLY:O	2.40	0.54
1:T:407:THR:HG21	1:U:339:THR:CG2	2.37	0.54
1:V:430:GLN:HE22	1:5:353:PRO:HB3	1.70	0.54
1:Y:407:THR:HG21	1:x:339:THR:CG2	2.37	0.54
1:1:305:ASN:O	1:1:425:SER:OG	2.25	0.54
1:6:383:ASN:ND2	1:6:385:GLY:O	2.40	0.54
1:a:716:ASN:HB3	1:a:720:VAL:H	1.70	0.54
1:c:430:GLN:HE22	1:d:353:PRO:HB3	1.71	0.54
1:h:219:ASP:N	1:h:408:GLY:O	2.40	0.54
1:m:219:ASP:N	1:m:408:GLY:O	2.40	0.54
1:o:339:THR:CG2	1:y:407:THR:HG21	2.37	0.54
1:q:497:ASN:HD21	1:s:590:GLN:HG2	1.72	0.54
1:r:581:ALA:O	1:s:485:ARG:HD3	2.07	0.54
1:s:329:ASN:OD1	1:s:331:VAL:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:329:ASN:OD1	1:u:331:VAL:HG12	2.07	0.54
1:x:219:ASP:N	1:x:408:GLY:O	2.40	0.54
1:F:485:ARG:HD3	1:Q:581:ALA:O	2.07	0.54
1:H:407:THR:HG21	1:I:339:THR:CG2	2.37	0.54
1:L:398:GLU:OE2	1:L:650:LYS:HE2	2.07	0.54
1:N:581:ALA:O	1:P:485:ARG:HD3	2.07	0.54
1:S:329:ASN:OD1	1:S:331:VAL:HG12	2.07	0.54
1:S:590:GLN:HG2	1:U:497:ASN:HD21	1.73	0.54
1:V:383:ASN:ND2	1:V:385:GLY:O	2.40	0.54
1:Y:219:ASP:N	1:Y:408:GLY:O	2.40	0.54
1:2:383:ASN:ND2	1:2:385:GLY:O	2.40	0.54
1:2:398:GLU:OE2	1:2:650:LYS:HE2	2.07	0.54
1:2:407:THR:HG21	1:i:339:THR:CG2	2.37	0.54
1:3:305:ASN:O	1:3:425:SER:OG	2.24	0.54
1:3:353:PRO:HB3	1:j:430:GLN:HE22	1.70	0.54
1:5:305:ASN:O	1:5:425:SER:OG	2.24	0.54
1:b:383:ASN:ND2	1:b:385:GLY:O	2.40	0.54
1:e:383:ASN:ND2	1:e:385:GLY:O	2.40	0.54
1:g:407:THR:HG21	1:m:339:THR:CG2	2.37	0.54
1:i:219:ASP:N	1:i:408:GLY:O	2.40	0.54
1:i:398:GLU:OE2	1:i:650:LYS:HE2	2.06	0.54
1:j:339:THR:CG2	1:z:407:THR:HG21	2.37	0.54
1:j:383:ASN:ND2	1:j:385:GLY:O	2.40	0.54
1:k:329:ASN:OD1	1:k:331:VAL:HG12	2.07	0.54
1:l:329:ASN:OD1	1:l:331:VAL:HG12	2.07	0.54
1:l:590:GLN:HG2	1:m:497:ASN:HD21	1.73	0.54
1:n:305:ASN:O	1:n:425:SER:OG	2.24	0.54
1:q:329:ASN:OD1	1:q:331:VAL:HG12	2.07	0.54
1:t:305:ASN:O	1:t:425:SER:OG	2.24	0.54
1:t:398:GLU:OE2	1:t:650:LYS:HE2	2.07	0.54
1:x:398:GLU:OE2	1:x:650:LYS:HE2	2.06	0.54
1:y:219:ASP:N	1:y:408:GLY:O	2.40	0.54
1:A:581:ALA:O	1:G:485:ARG:HD3	2.06	0.54
1:C:339:THR:CG2	1:D:407:THR:HG21	2.37	0.54
1:C:497:ASN:HD21	1:M:590:GLN:HG2	1.73	0.54
1:D:383:ASN:ND2	1:D:385:GLY:O	2.40	0.54
1:H:219:ASP:N	1:H:408:GLY:O	2.40	0.54
1:K:339:THR:CG2	1:7:407:THR:HG21	2.37	0.54
1:L:329:ASN:OD1	1:L:331:VAL:HG12	2.07	0.54
1:O:398:GLU:HB2	1:4:368:PRO:HB2	1.90	0.54
1:O:590:GLN:HG2	1:g:497:ASN:HD21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:329:ASN:OD1	1:R:331:VAL:HG12	2.07	0.54
1:S:581:ALA:O	1:U:485:ARG:HD3	2.07	0.54
1:T:329:ASN:OD1	1:T:331:VAL:HG12	2.07	0.54
1:V:339:THR:CG2	1:W:407:THR:HG21	2.37	0.54
1:W:383:ASN:ND2	1:W:385:GLY:O	2.40	0.54
1:5:383:ASN:ND2	1:5:385:GLY:O	2.40	0.54
1:6:339:THR:CG2	1:t:407:THR:HG21	2.37	0.54
1:6:398:GLU:OE2	1:6:650:LYS:HE2	2.07	0.54
1:a:497:ASN:HD21	1:b:590:GLN:HG2	1.73	0.54
1:d:219:ASP:N	1:d:408:GLY:O	2.40	0.54
1:f:398:GLU:HB2	1:h:368:PRO:HB2	1.90	0.54
1:g:329:ASN:OD1	1:g:331:VAL:HG12	2.07	0.54
1:h:398:GLU:OE2	1:h:650:LYS:HE2	2.06	0.54
1:k:430:GLN:HE22	1:l:353:PRO:HB3	1.70	0.54
1:q:302:ILE:HG22	1:q:729:THR:HG23	1.88	0.54
1:t:329:ASN:OD1	1:t:331:VAL:HG12	2.07	0.54
1:t:430:GLN:HE22	1:u:353:PRO:HB3	1.70	0.54
1:E:302:ILE:HG22	1:E:729:THR:HG23	1.88	0.54
1:E:329:ASN:OD1	1:E:331:VAL:HG12	2.07	0.54
1:F:383:ASN:ND2	1:F:385:GLY:O	2.40	0.54
1:K:398:GLU:OE2	1:K:650:LYS:HE2	2.06	0.54
1:L:407:THR:HG21	1:2:339:THR:CG2	2.37	0.54
1:P:219:ASP:N	1:P:408:GLY:O	2.40	0.54
1:W:302:ILE:HG22	1:W:729:THR:HG23	1.88	0.54
1:X:219:ASP:N	1:X:408:GLY:O	2.40	0.54
1:X:339:THR:CG2	1:6:407:THR:HG21	2.37	0.54
1:3:383:ASN:ND2	1:3:385:GLY:O	2.40	0.54
1:b:219:ASP:N	1:b:408:GLY:O	2.40	0.54
1:f:329:ASN:OD1	1:f:331:VAL:HG12	2.07	0.54
1:h:302:ILE:HG22	1:h:729:THR:HG23	1.88	0.54
1:p:339:THR:CG2	1:u:407:THR:HG21	2.37	0.54
1:s:383:ASN:ND2	1:s:385:GLY:O	2.40	0.54
1:u:219:ASP:N	1:u:408:GLY:O	2.40	0.54
1:x:383:ASN:ND2	1:x:385:GLY:O	2.40	0.54
1:z:302:ILE:HG22	1:z:729:THR:HG23	1.88	0.54
1:z:329:ASN:OD1	1:z:331:VAL:HG12	2.07	0.54
1:z:383:ASN:ND2	1:z:385:GLY:O	2.40	0.54
1:7:219:ASP:N	1:7:408:GLY:O	2.40	0.54
1:B:219:ASP:N	1:B:408:GLY:O	2.40	0.54
1:B:353:PRO:HB3	1:L:430:GLN:HE22	1.70	0.54
1:F:305:ASN:O	1:F:425:SER:OG	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:383:ASN:ND2	1:I:385:GLY:O	2.40	0.54
1:I:398:GLU:OE2	1:I:650:LYS:HE2	2.06	0.54
1:K:383:ASN:ND2	1:K:385:GLY:O	2.40	0.54
1:K:590:GLN:HG2	1:1:497:ASN:HD21	1.72	0.54
1:L:368:PRO:HB2	1:2:398:GLU:HB2	1.90	0.54
1:M:219:ASP:N	1:M:408:GLY:O	2.40	0.54
1:R:430:GLN:HE22	1:S:353:PRO:HB3	1.70	0.54
1:S:305:ASN:O	1:S:425:SER:OG	2.25	0.54
1:T:339:THR:CG2	1:c:407:THR:HG21	2.37	0.54
1:T:368:PRO:HB2	1:U:398:GLU:HB2	1.90	0.54
1:T:497:ASN:HD21	1:f:590:GLN:HG2	1.73	0.54
1:W:329:ASN:OD1	1:W:331:VAL:HG12	2.07	0.54
1:X:398:GLU:HB2	1:6:368:PRO:HB2	1.90	0.54
1:Y:383:ASN:ND2	1:Y:385:GLY:O	2.40	0.54
1:Z:339:THR:CG2	1:1:407:THR:HG21	2.37	0.54
1:4:302:ILE:HG22	1:4:729:THR:HG23	1.88	0.54
1:4:398:GLU:OE2	1:4:650:LYS:HE2	2.07	0.54
1:5:368:PRO:HB2	1:b:398:GLU:HB2	1.90	0.54
1:a:339:THR:CG2	1:e:407:THR:HG21	2.38	0.54
1:d:305:ASN:O	1:d:425:SER:OG	2.24	0.54
1:e:219:ASP:N	1:e:408:GLY:O	2.40	0.54
1:g:368:PRO:HB2	1:m:398:GLU:HB2	1.90	0.54
1:l:581:ALA:O	1:m:485:ARG:HD3	2.07	0.54
1:o:398:GLU:OE2	1:o:650:LYS:HE2	2.06	0.54
1:s:219:ASP:N	1:s:408:GLY:O	2.40	0.54
1:u:590:GLN:HG2	1:v:497:ASN:HD21	1.73	0.54
1:w:497:ASN:HD21	1:x:590:GLN:HG2	1.72	0.54
1:B:590:GLN:HG2	1:J:497:ASN:HD21	1.73	0.54
1:C:302:ILE:HG22	1:C:729:THR:HG23	1.88	0.54
1:D:219:ASP:N	1:D:408:GLY:O	2.40	0.54
1:E:383:ASN:ND2	1:E:385:GLY:O	2.41	0.54
1:E:590:GLN:HG2	1:Q:497:ASN:HD21	1.73	0.54
1:I:219:ASP:N	1:I:408:GLY:O	2.40	0.54
1:K:368:PRO:HB2	1:L:398:GLU:HB2	1.90	0.54
1:M:398:GLU:HB2	1:3:368:PRO:HB2	1.90	0.54
1:O:329:ASN:OD1	1:O:331:VAL:HG12	2.07	0.54
1:P:305:ASN:O	1:P:425:SER:OG	2.25	0.54
1:Q:329:ASN:OD1	1:Q:331:VAL:HG12	2.07	0.54
1:S:407:THR:HG21	1:4:339:THR:CG2	2.37	0.54
1:V:398:GLU:HB2	1:W:368:PRO:HB2	1.90	0.54
1:X:368:PRO:HB2	1:Y:398:GLU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:368:PRO:HB2	1:i:398:GLU:HB2	1.90	0.54
1:6:398:GLU:HB2	1:t:368:PRO:HB2	1.90	0.54
1:c:485:ARG:HD3	1:e:581:ALA:O	2.06	0.54
1:i:368:PRO:HB2	1:7:398:GLU:HB2	1.90	0.54
1:j:219:ASP:N	1:j:408:GLY:O	2.40	0.54
1:j:398:GLU:HB2	1:z:368:PRO:HB2	1.90	0.54
1:n:485:ARG:HD3	1:p:581:ALA:O	2.06	0.54
1:o:383:ASN:ND2	1:o:385:GLY:O	2.40	0.54
1:q:590:GLN:HG2	1:r:497:ASN:HD21	1.73	0.54
1:y:430:GLN:HE22	1:z:353:PRO:HB3	1.70	0.54
1:7:383:ASN:ND2	1:7:385:GLY:O	2.40	0.54
1:B:383:ASN:ND2	1:B:385:GLY:O	2.40	0.54
1:D:329:ASN:OD1	1:D:331:VAL:HG12	2.07	0.54
1:E:305:ASN:O	1:E:425:SER:OG	2.24	0.54
1:F:219:ASP:N	1:F:408:GLY:O	2.40	0.54
1:H:497:ASN:HD21	1:Y:590:GLN:HG2	1.73	0.54
1:M:353:PRO:HB3	1:2:430:GLN:HE22	1.70	0.54
1:M:368:PRO:HB2	1:N:398:GLU:HB2	1.90	0.54
1:N:229:HIS:NE2	1:N:231:ASP:OD1	2.41	0.54
1:O:581:ALA:O	1:g:485:ARG:HD3	2.07	0.54
1:R:581:ALA:O	1:S:485:ARG:HD3	2.07	0.54
1:T:485:ARG:HD3	1:f:581:ALA:O	2.07	0.54
1:U:368:PRO:HB2	1:5:398:GLU:HB2	1.90	0.54
1:U:407:THR:HG21	1:5:339:THR:CG2	2.37	0.54
1:V:305:ASN:O	1:V:425:SER:OG	2.24	0.54
1:3:398:GLU:HB2	1:m:368:PRO:HB2	1.90	0.54
1:6:430:GLN:HE22	1:b:353:PRO:HB3	1.70	0.54
1:a:302:ILE:HG22	1:a:729:THR:HG23	1.88	0.54
1:c:229:HIS:NE2	1:c:231:ASP:OD1	2.41	0.54
1:h:339:THR:CG2	1:l:407:THR:HG21	2.37	0.54
1:i:407:THR:HG21	1:7:339:THR:CG2	2.37	0.54
1:j:305:ASN:O	1:j:425:SER:OG	2.24	0.54
1:k:383:ASN:ND2	1:k:385:GLY:O	2.40	0.54
1:o:219:ASP:N	1:o:408:GLY:O	2.40	0.54
1:q:383:ASN:ND2	1:q:385:GLY:O	2.41	0.54
1:r:329:ASN:OD1	1:r:331:VAL:HG12	2.07	0.54
1:r:383:ASN:ND2	1:r:385:GLY:O	2.40	0.54
1:s:305:ASN:O	1:s:425:SER:OG	2.25	0.54
1:t:398:GLU:HB2	1:x:368:PRO:HB2	1.90	0.54
1:u:383:ASN:ND2	1:u:385:GLY:O	2.40	0.54
1:w:407:THR:HG21	1:8:339:THR:CG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:497:ASN:HD21	1:7:590:GLN:HG2	1.73	0.54
1:A:497:ASN:HD21	1:I:590:GLN:HG2	1.72	0.54
1:H:430:GLN:HE22	1:W:353:PRO:HB3	1.70	0.54
1:P:229:HIS:NE2	1:P:231:ASP:OD1	2.41	0.54
1:Q:383:ASN:ND2	1:Q:385:GLY:O	2.40	0.54
1:R:383:ASN:ND2	1:R:385:GLY:O	2.40	0.54
1:T:229:HIS:NE2	1:T:231:ASP:OD1	2.41	0.54
1:V:219:ASP:N	1:V:408:GLY:O	2.40	0.54
1:V:329:ASN:OD1	1:V:331:VAL:HG12	2.07	0.54
1:X:407:THR:HG21	1:Y:339:THR:CG2	2.37	0.54
1:2:219:ASP:N	1:2:408:GLY:O	2.40	0.54
1:6:219:ASP:N	1:6:408:GLY:O	2.40	0.54
1:a:398:GLU:HB2	1:e:368:PRO:HB2	1.90	0.54
1:c:353:PRO:HB3	1:e:430:GLN:HE22	1.71	0.54
1:g:229:HIS:NE2	1:g:231:ASP:OD1	2.41	0.54
1:l:305:ASN:O	1:l:425:SER:OG	2.25	0.54
1:l:398:GLU:HB2	1:r:368:PRO:HB2	1.90	0.54
1:n:368:PRO:HB2	1:z:398:GLU:HB2	1.90	0.54
1:n:497:ASN:HD21	1:p:590:GLN:HG2	1.72	0.54
1:p:229:HIS:NE2	1:p:231:ASP:OD1	2.41	0.54
1:q:305:ASN:O	1:q:425:SER:OG	2.24	0.54
1:q:581:ALA:O	1:r:485:ARG:HD3	2.07	0.54
1:s:229:HIS:NE2	1:s:231:ASP:OD1	2.41	0.54
1:z:590:GLN:HG2	1:7:497:ASN:HD21	1.73	0.54
1:8:219:ASP:N	1:8:408:GLY:O	2.40	0.54
1:A:229:HIS:NE2	1:A:231:ASP:OD1	2.41	0.54
1:A:371:VAL:HG11	1:E:655:PRO:HG3	1.90	0.54
1:A:590:GLN:HG2	1:G:497:ASN:HD21	1.73	0.54
1:B:398:GLU:HB2	1:C:368:PRO:HB2	1.90	0.54
1:C:398:GLU:HB2	1:D:368:PRO:HB2	1.90	0.54
1:F:229:HIS:NE2	1:F:231:ASP:OD1	2.41	0.54
1:G:368:PRO:HB2	1:W:398:GLU:HB2	1.90	0.54
1:H:229:HIS:NE2	1:H:231:ASP:OD1	2.41	0.54
1:I:229:HIS:NE2	1:I:231:ASP:OD1	2.41	0.54
1:K:329:ASN:OD1	1:K:331:VAL:HG12	2.07	0.54
1:Q:368:PRO:HB2	1:S:398:GLU:HB2	1.90	0.54
1:U:329:ASN:OD1	1:U:331:VAL:HG12	2.07	0.54
1:V:497:ASN:HD21	1:X:590:GLN:HG2	1.73	0.54
1:W:590:GLN:HG2	1:Y:497:ASN:HD21	1.73	0.54
1:X:229:HIS:NE2	1:X:231:ASP:OD1	2.41	0.54
1:Y:329:ASN:OD1	1:Y:331:VAL:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:219:ASP:N	1:Z:408:GLY:O	2.40	0.54
1:3:339:THR:CG2	1:m:407:THR:HG21	2.37	0.54
1:a:368:PRO:HB2	1:u:398:GLU:HB2	1.90	0.54
1:d:229:HIS:NE2	1:d:231:ASP:OD1	2.41	0.54
1:e:329:ASN:OD1	1:e:331:VAL:HG12	2.07	0.54
1:g:219:ASP:N	1:g:408:GLY:O	2.40	0.54
1:k:581:ALA:O	1:l:485:ARG:HD3	2.07	0.54
1:l:383:ASN:ND2	1:l:385:GLY:O	2.40	0.54
1:n:353:PRO:HB3	1:p:430:GLN:HE22	1.70	0.54
1:o:229:HIS:NE2	1:o:231:ASP:OD1	2.41	0.54
1:o:590:GLN:HG2	1:p:497:ASN:HD21	1.72	0.54
1:t:497:ASN:HD21	1:v:590:GLN:HG2	1.73	0.54
1:v:219:ASP:N	1:v:408:GLY:O	2.40	0.54
1:y:229:HIS:NE2	1:y:231:ASP:OD1	2.41	0.54
1:8:229:HIS:NE2	1:8:231:ASP:OD1	2.41	0.54
1:E:398:GLU:OE2	1:E:650:LYS:HE2	2.07	0.54
1:E:581:ALA:O	1:Q:485:ARG:HD3	2.07	0.54
1:J:219:ASP:N	1:J:408:GLY:O	2.40	0.54
1:N:407:THR:HG21	1:g:339:THR:CG2	2.37	0.54
1:P:383:ASN:ND2	1:P:385:GLY:O	2.40	0.54
1:S:383:ASN:ND2	1:S:385:GLY:O	2.40	0.54
1:Z:229:HIS:NE2	1:Z:231:ASP:OD1	2.41	0.54
1:Z:302:ILE:HG22	1:Z:729:THR:HG23	1.88	0.54
1:Z:398:GLU:HB2	1:1:368:PRO:HB2	1.90	0.54
1:2:329:ASN:OD1	1:2:331:VAL:HG12	2.07	0.54
1:b:407:THR:HG21	1:c:339:THR:CG2	2.37	0.54
1:d:383:ASN:ND2	1:d:385:GLY:O	2.40	0.54
1:e:229:HIS:NE2	1:e:231:ASP:OD1	2.41	0.54
1:i:229:HIS:NE2	1:i:231:ASP:OD1	2.41	0.54
1:j:329:ASN:OD1	1:j:331:VAL:HG12	2.07	0.54
1:m:329:ASN:OD1	1:m:331:VAL:HG12	2.07	0.54
1:w:368:PRO:HB2	1:8:398:GLU:HB2	1.90	0.54
1:8:302:ILE:HG22	1:8:729:THR:HG23	1.88	0.54
1:A:430:GLN:HE22	1:G:353:PRO:HB3	1.70	0.53
1:D:229:HIS:NE2	1:D:231:ASP:OD1	2.41	0.53
1:J:590:GLN:HG2	1:L:497:ASN:HD21	1.73	0.53
1:T:219:ASP:N	1:T:408:GLY:O	2.40	0.53
1:1:229:HIS:NE2	1:1:231:ASP:OD1	2.41	0.53
1:6:329:ASN:OD1	1:6:331:VAL:HG12	2.07	0.53
1:d:407:THR:HG21	1:r:339:THR:CG2	2.37	0.53
1:i:590:GLN:HG2	1:j:497:ASN:HD21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:398:GLU:HB2	1:y:368:PRO:HB2	1.90	0.53
1:q:398:GLU:OE2	1:q:650:LYS:HE2	2.07	0.53
1:t:590:GLN:HG2	1:u:497:ASN:HD21	1.73	0.53
1:w:229:HIS:NE2	1:w:231:ASP:OD1	2.41	0.53
1:x:229:HIS:NE2	1:x:231:ASP:OD1	2.41	0.53
1:x:329:ASN:OD1	1:x:331:VAL:HG12	2.07	0.53
1:y:398:GLU:HB2	1:8:368:PRO:HB2	1.90	0.53
1:7:329:ASN:OD1	1:7:331:VAL:HG12	2.07	0.53
1:D:398:GLU:OE2	1:D:650:LYS:HE2	2.06	0.53
1:D:581:ALA:O	1:N:485:ARG:HD3	2.07	0.53
1:H:368:PRO:HB2	1:I:398:GLU:HB2	1.90	0.53
1:K:229:HIS:NE2	1:K:231:ASP:OD1	2.41	0.53
1:P:407:THR:HG21	1:Q:339:THR:CG2	2.37	0.53
1:R:655:PRO:HG3	1:V:371:VAL:HG11	1.91	0.53
1:1:383:ASN:ND2	1:1:385:GLY:O	2.40	0.53
1:4:383:ASN:ND2	1:4:385:GLY:O	2.40	0.53
1:6:497:ASN:HD21	1:a:590:GLN:HG2	1.72	0.53
1:d:302:ILE:HG22	1:d:729:THR:HG23	1.88	0.53
1:h:229:HIS:NE2	1:h:231:ASP:OD1	2.41	0.53
1:j:371:VAL:HG11	1:k:655:PRO:HG3	1.91	0.53
1:p:371:VAL:HG11	1:q:655:PRO:HG3	1.90	0.53
1:A:398:GLU:HB2	1:B:368:PRO:HB2	1.90	0.53
1:B:497:ASN:HD21	1:L:590:GLN:HG2	1.73	0.53
1:E:229:HIS:NE2	1:E:231:ASP:OD1	2.41	0.53
1:G:229:HIS:NE2	1:G:231:ASP:OD1	2.41	0.53
1:H:398:GLU:HB2	1:Z:368:PRO:HB2	1.90	0.53
1:K:497:ASN:HD21	1:8:590:GLN:HG2	1.73	0.53
1:M:407:THR:HG21	1:N:339:THR:CG2	2.37	0.53
1:T:383:ASN:ND2	1:T:385:GLY:O	2.40	0.53
1:T:655:PRO:HG3	1:c:371:VAL:HG11	1.90	0.53
1:3:229:HIS:NE2	1:3:231:ASP:OD1	2.41	0.53
1:4:229:HIS:NE2	1:4:231:ASP:OD1	2.41	0.53
1:c:497:ASN:HD21	1:e:590:GLN:HG2	1.73	0.53
1:d:655:PRO:HG3	1:f:371:VAL:HG11	1.90	0.53
1:e:398:GLU:OE2	1:e:650:LYS:HE2	2.06	0.53
1:g:383:ASN:ND2	1:g:385:GLY:O	2.40	0.53
1:h:383:ASN:ND2	1:h:385:GLY:O	2.40	0.53
1:m:229:HIS:NE2	1:m:231:ASP:OD1	2.41	0.53
1:n:229:HIS:NE2	1:n:231:ASP:OD1	2.41	0.53
1:q:229:HIS:NE2	1:q:231:ASP:OD1	2.41	0.53
1:w:383:ASN:ND2	1:w:385:GLY:O	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:229:HIS:NE2	1:7:231:ASP:OD1	2.41	0.53
1:C:590:GLN:HG2	1:2:497:ASN:HD21	1.72	0.53
1:D:497:ASN:HD21	1:P:590:GLN:HG2	1.73	0.53
1:H:383:ASN:ND2	1:H:385:GLY:O	2.40	0.53
1:J:302:ILE:HG22	1:J:729:THR:HG23	1.88	0.53
1:N:590:GLN:HG2	1:P:497:ASN:HD21	1.73	0.53
1:P:302:ILE:HG22	1:P:729:THR:HG23	1.88	0.53
1:Y:229:HIS:NE2	1:Y:231:ASP:OD1	2.41	0.53
1:Y:368:PRO:HB2	1:x:398:GLU:HB2	1.90	0.53
1:Z:590:GLN:HG2	1:x:497:ASN:HD21	1.73	0.53
1:5:229:HIS:NE2	1:5:231:ASP:OD1	2.41	0.53
1:d:590:GLN:HG2	1:e:497:ASN:HD21	1.73	0.53
1:g:590:GLN:HG2	1:h:497:ASN:HD21	1.72	0.53
1:i:383:ASN:ND2	1:i:385:GLY:O	2.40	0.53
1:l:229:HIS:NE2	1:l:231:ASP:OD1	2.41	0.53
1:v:302:ILE:HG22	1:v:729:THR:HG23	1.88	0.53
1:y:383:ASN:ND2	1:y:385:GLY:O	2.40	0.53
1:8:383:ASN:ND2	1:8:385:GLY:O	2.41	0.53
1:B:437:ASN:HB2	1:J:355:VAL:HG13	1.91	0.53
1:D:590:GLN:HG2	1:N:497:ASN:HD21	1.73	0.53
1:F:497:ASN:HD21	1:Q:590:GLN:HG2	1.72	0.53
1:K:398:GLU:HB2	1:7:368:PRO:HB2	1.90	0.53
1:M:497:ASN:HD21	1:2:590:GLN:HG2	1.73	0.53
1:O:371:VAL:HG11	1:P:655:PRO:HG3	1.91	0.53
1:T:371:VAL:HG11	1:U:655:PRO:HG3	1.91	0.53
1:U:229:HIS:NE2	1:U:231:ASP:OD1	2.41	0.53
1:Z:383:ASN:ND2	1:Z:385:GLY:O	2.41	0.53
1:3:497:ASN:HD21	1:j:590:GLN:HG2	1.72	0.53
1:6:590:GLN:HG2	1:b:497:ASN:HD21	1.73	0.53
1:n:398:GLU:HB2	1:s:368:PRO:HB2	1.90	0.53
1:o:329:ASN:OD1	1:o:331:VAL:HG12	2.07	0.53
1:p:398:GLU:HB2	1:u:368:PRO:HB2	1.90	0.53
1:r:590:GLN:HG2	1:s:497:ASN:HD21	1.72	0.53
1:u:437:ASN:HB2	1:v:355:VAL:HG13	1.91	0.53
1:F:368:PRO:HB2	1:G:398:GLU:HB2	1.90	0.53
1:J:383:ASN:ND2	1:J:385:GLY:O	2.40	0.53
1:N:383:ASN:ND2	1:N:385:GLY:O	2.40	0.53
1:O:229:HIS:NE2	1:O:231:ASP:OD1	2.41	0.53
1:S:229:HIS:NE2	1:S:231:ASP:OD1	2.41	0.53
1:T:590:GLN:HG2	1:4:497:ASN:HD21	1.72	0.53
1:X:383:ASN:ND2	1:X:385:GLY:O	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:655:PRO:HG3	1:1:371:VAL:HG11	1.91	0.53
1:c:355:VAL:HG13	1:e:437:ASN:HB2	1.91	0.53
1:e:398:GLU:HB2	1:q:368:PRO:HB2	1.90	0.53
1:g:371:VAL:HG11	1:m:655:PRO:HG3	1.91	0.53
1:k:497:ASN:HD21	1:m:590:GLN:HG2	1.73	0.53
1:n:383:ASN:ND2	1:n:385:GLY:O	2.41	0.53
1:G:383:ASN:ND2	1:G:385:GLY:O	2.41	0.53
1:I:329:ASN:OD1	1:I:331:VAL:HG12	2.07	0.53
1:K:305:ASN:O	1:K:425:SER:OG	2.24	0.53
1:V:437:ASN:HB2	1:5:355:VAL:HG13	1.91	0.53
1:V:590:GLN:HG2	1:5:497:ASN:HD21	1.72	0.53
1:3:355:VAL:HG13	1:j:437:ASN:HB2	1.91	0.53
1:t:383:ASN:ND2	1:t:385:GLY:O	2.40	0.53
1:v:383:ASN:ND2	1:v:385:GLY:O	2.40	0.53
1:w:371:VAL:HG11	1:8:655:PRO:HG3	1.91	0.53
1:F:355:VAL:HG13	1:Q:437:ASN:HB2	1.91	0.53
1:L:383:ASN:ND2	1:L:385:GLY:O	2.40	0.53
1:N:371:VAL:HG11	1:g:655:PRO:HG3	1.91	0.53
1:Q:371:VAL:HG11	1:S:655:PRO:HG3	1.91	0.53
1:R:497:ASN:HD21	1:U:590:GLN:HG2	1.73	0.53
1:T:398:GLU:HB2	1:c:368:PRO:HB2	1.90	0.53
1:Z:355:VAL:HG13	1:w:437:ASN:HB2	1.91	0.53
1:1:437:ASN:HB2	1:8:355:VAL:HG13	1.91	0.53
1:1:590:GLN:HG2	1:8:497:ASN:HD21	1.72	0.53
1:a:229:HIS:NE2	1:a:231:ASP:OD1	2.41	0.53
1:c:383:ASN:ND2	1:c:385:GLY:O	2.40	0.53
1:d:398:GLU:HB2	1:f:368:PRO:HB2	1.90	0.53
1:e:655:PRO:HG3	1:q:371:VAL:HG11	1.91	0.53
1:f:229:HIS:NE2	1:f:231:ASP:OD1	2.41	0.53
1:l:655:PRO:HG3	1:r:371:VAL:HG11	1.91	0.53
1:B:229:HIS:NE2	1:B:231:ASP:OD1	2.41	0.53
1:D:398:GLU:HB2	1:E:368:PRO:HB2	1.90	0.53
1:D:655:PRO:HG3	1:E:371:VAL:HG11	1.91	0.53
1:G:590:GLN:HG2	1:I:497:ASN:HD21	1.73	0.53
1:N:368:PRO:HB2	1:g:398:GLU:HB2	1.90	0.53
1:O:368:PRO:HB2	1:P:398:GLU:HB2	1.90	0.53
1:O:383:ASN:ND2	1:O:385:GLY:O	2.41	0.53
1:O:655:PRO:HG3	1:4:371:VAL:HG11	1.91	0.53
1:R:229:HIS:NE2	1:R:231:ASP:OD1	2.41	0.53
1:R:398:GLU:HB2	1:V:368:PRO:HB2	1.90	0.53
1:W:229:HIS:NE2	1:W:231:ASP:OD1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:590:GLN:HG2	1:f:497:ASN:HD21	1.72	0.53
1:a:371:VAL:HG11	1:u:655:PRO:HG3	1.91	0.53
1:d:354:TYR:CZ	1:d:356:LEU:HB2	2.44	0.53
1:f:383:ASN:ND2	1:f:385:GLY:O	2.40	0.53
1:m:383:ASN:ND2	1:m:385:GLY:O	2.40	0.53
1:r:229:HIS:NE2	1:r:231:ASP:OD1	2.41	0.53
1:r:437:ASN:HB2	1:s:355:VAL:HG13	1.91	0.53
1:u:229:HIS:NE2	1:u:231:ASP:OD1	2.41	0.53
1:v:371:VAL:HG11	1:w:655:PRO:HG3	1.91	0.53
1:x:305:ASN:O	1:x:425:SER:OG	2.24	0.53
1:z:229:HIS:NE2	1:z:231:ASP:OD1	2.41	0.53
1:A:355:VAL:HG13	1:I:437:ASN:HB2	1.91	0.53
1:B:354:TYR:CZ	1:B:356:LEU:HB2	2.44	0.53
1:B:655:PRO:HG3	1:C:371:VAL:HG11	1.91	0.53
1:C:229:HIS:NE2	1:C:231:ASP:OD1	2.41	0.53
1:D:437:ASN:HB2	1:N:355:VAL:HG13	1.91	0.53
1:J:229:HIS:NE2	1:J:231:ASP:OD1	2.41	0.53
1:J:371:VAL:HG11	1:1:655:PRO:HG3	1.91	0.53
1:M:371:VAL:HG11	1:N:655:PRO:HG3	1.91	0.53
1:N:354:TYR:CZ	1:N:356:LEU:HB2	2.44	0.53
1:P:354:TYR:CZ	1:P:356:LEU:HB2	2.44	0.53
1:Q:229:HIS:NE2	1:Q:231:ASP:OD1	2.41	0.53
1:S:368:PRO:HB2	1:4:398:GLU:HB2	1.90	0.53
1:V:355:VAL:HG13	1:X:437:ASN:HB2	1.91	0.53
1:W:305:ASN:O	1:W:425:SER:OG	2.25	0.53
1:6:229:HIS:NE2	1:6:231:ASP:OD1	2.41	0.53
1:6:355:VAL:HG13	1:a:437:ASN:HB2	1.91	0.53
1:a:655:PRO:HG3	1:e:371:VAL:HG11	1.91	0.53
1:c:354:TYR:CZ	1:c:356:LEU:HB2	2.44	0.53
1:c:437:ASN:HB2	1:d:355:VAL:HG13	1.90	0.53
1:f:655:PRO:HG3	1:h:371:VAL:HG11	1.91	0.53
1:h:655:PRO:HG3	1:l:371:VAL:HG11	1.91	0.53
1:j:368:PRO:HB2	1:k:398:GLU:HB2	1.90	0.53
1:k:229:HIS:NE2	1:k:231:ASP:OD1	2.41	0.53
1:q:437:ASN:HB2	1:r:355:VAL:HG13	1.91	0.53
1:u:354:TYR:CZ	1:u:356:LEU:HB2	2.44	0.53
1:v:229:HIS:NE2	1:v:231:ASP:OD1	2.41	0.53
1:A:383:ASN:ND2	1:A:385:GLY:O	2.40	0.52
1:C:383:ASN:ND2	1:C:385:GLY:O	2.40	0.52
1:C:437:ASN:HB2	1:2:355:VAL:HG13	1.91	0.52
1:C:563:GLU:O	1:C:566:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:655:PRO:HG3	1:D:371:VAL:HG11	1.91	0.52
1:E:355:VAL:HG13	1:F:437:ASN:HB2	1.91	0.52
1:E:437:ASN:HB2	1:Q:355:VAL:HG13	1.91	0.52
1:E:443:TYR:CZ	1:Q:359:ALA:HB1	2.45	0.52
1:G:437:ASN:HB2	1:I:355:VAL:HG13	1.91	0.52
1:H:437:ASN:HB2	1:W:355:VAL:HG13	1.91	0.52
1:H:443:TYR:CZ	1:W:359:ALA:HB1	2.45	0.52
1:I:368:PRO:HB2	1:J:398:GLU:HB2	1.90	0.52
1:J:368:PRO:HB2	1:1:398:GLU:HB2	1.90	0.52
1:K:563:GLU:O	1:K:566:ILE:HG12	2.09	0.52
1:O:354:TYR:CZ	1:O:356:LEU:HB2	2.44	0.52
1:O:563:GLU:O	1:O:566:ILE:HG12	2.10	0.52
1:S:371:VAL:HG11	1:4:655:PRO:HG3	1.91	0.52
1:T:354:TYR:CZ	1:T:356:LEU:HB2	2.45	0.52
1:U:383:ASN:ND2	1:U:385:GLY:O	2.40	0.52
1:U:563:GLU:O	1:U:566:ILE:HG12	2.10	0.52
1:V:229:HIS:NE2	1:V:231:ASP:OD1	2.41	0.52
1:X:563:GLU:O	1:X:566:ILE:HG12	2.10	0.52
1:Y:354:TYR:CZ	1:Y:356:LEU:HB2	2.44	0.52
1:Z:497:ASN:HD21	1:w:590:GLN:HG2	1.72	0.52
1:1:563:GLU:O	1:1:566:ILE:HG12	2.10	0.52
1:2:229:HIS:NE2	1:2:231:ASP:OD1	2.41	0.52
1:4:437:ASN:HB2	1:f:355:VAL:HG13	1.91	0.52
1:a:563:GLU:O	1:a:566:ILE:HG12	2.10	0.52
1:b:563:GLU:O	1:b:566:ILE:HG12	2.10	0.52
1:f:354:TYR:CZ	1:f:356:LEU:HB2	2.44	0.52
1:g:354:TYR:CZ	1:g:356:LEU:HB2	2.45	0.52
1:h:398:GLU:HB2	1:l:368:PRO:HB2	1.90	0.52
1:i:437:ASN:HB2	1:j:355:VAL:HG13	1.91	0.52
1:i:563:GLU:O	1:i:566:ILE:HG12	2.10	0.52
1:j:229:HIS:NE2	1:j:231:ASP:OD1	2.41	0.52
1:k:437:ASN:HB2	1:l:355:VAL:HG13	1.91	0.52
1:m:563:GLU:O	1:m:566:ILE:HG12	2.10	0.52
1:n:437:ASN:HB2	1:o:355:VAL:HG13	1.91	0.52
1:n:590:GLN:HG2	1:o:497:ASN:HD21	1.73	0.52
1:p:383:ASN:ND2	1:p:385:GLY:O	2.40	0.52
1:q:355:VAL:HG13	1:s:437:ASN:HB2	1.91	0.52
1:q:443:TYR:CZ	1:r:359:ALA:HB1	2.45	0.52
1:x:563:GLU:O	1:x:566:ILE:HG12	2.09	0.52
1:y:437:ASN:HB2	1:z:355:VAL:HG13	1.91	0.52
1:y:443:TYR:CZ	1:z:359:ALA:HB1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:354:TYR:CZ	1:7:356:LEU:HB2	2.44	0.52
1:B:443:TYR:CZ	1:J:359:ALA:HB1	2.45	0.52
1:C:355:VAL:HG13	1:M:437:ASN:HB2	1.91	0.52
1:F:354:TYR:CZ	1:F:356:LEU:HB2	2.45	0.52
1:G:563:GLU:O	1:G:566:ILE:HG12	2.10	0.52
1:H:354:TYR:CZ	1:H:356:LEU:HB2	2.44	0.52
1:I:354:TYR:CZ	1:I:356:LEU:HB2	2.45	0.52
1:M:563:GLU:O	1:M:566:ILE:HG12	2.10	0.52
1:O:355:VAL:HG13	1:h:437:ASN:HB2	1.91	0.52
1:O:497:ASN:HD21	1:h:590:GLN:HG2	1.72	0.52
1:R:437:ASN:HB2	1:S:355:VAL:HG13	1.91	0.52
1:S:354:TYR:CZ	1:S:356:LEU:HB2	2.44	0.52
1:Z:354:TYR:CZ	1:Z:356:LEU:HB2	2.44	0.52
1:a:355:VAL:HG13	1:b:437:ASN:HB2	1.91	0.52
1:a:359:ALA:HB1	1:b:443:TYR:CZ	2.45	0.52
1:a:383:ASN:ND2	1:a:385:GLY:O	2.40	0.52
1:c:590:GLN:HG2	1:d:497:ASN:HD21	1.74	0.52
1:f:563:GLU:O	1:f:566:ILE:HG12	2.10	0.52
1:k:443:TYR:CZ	1:l:359:ALA:HB1	2.45	0.52
1:l:354:TYR:CZ	1:l:356:LEU:HB2	2.44	0.52
1:n:563:GLU:O	1:n:566:ILE:HG12	2.10	0.52
1:o:354:TYR:CZ	1:o:356:LEU:HB2	2.45	0.52
1:o:368:PRO:HB2	1:v:398:GLU:HB2	1.90	0.52
1:o:437:ASN:HB2	1:p:355:VAL:HG13	1.91	0.52
1:q:354:TYR:CZ	1:q:356:LEU:HB2	2.44	0.52
1:r:563:GLU:O	1:r:566:ILE:HG12	2.10	0.52
1:s:354:TYR:CZ	1:s:356:LEU:HB2	2.45	0.52
1:t:229:HIS:NE2	1:t:231:ASP:OD1	2.41	0.52
1:t:355:VAL:HG13	1:v:437:ASN:HB2	1.91	0.52
1:u:443:TYR:CZ	1:v:359:ALA:HB1	2.45	0.52
1:w:563:GLU:O	1:w:566:ILE:HG12	2.10	0.52
1:y:354:TYR:CZ	1:y:356:LEU:HB2	2.44	0.52
1:z:305:ASN:O	1:z:425:SER:OG	2.25	0.52
1:8:354:TYR:CZ	1:8:356:LEU:HB2	2.44	0.52
1:A:655:PRO:HG3	1:B:371:VAL:HG11	1.91	0.52
1:C:359:ALA:HB1	1:M:443:TYR:CZ	2.45	0.52
1:E:354:TYR:CZ	1:E:356:LEU:HB2	2.44	0.52
1:J:437:ASN:HB2	1:L:355:VAL:HG13	1.91	0.52
1:M:354:TYR:CZ	1:M:356:LEU:HB2	2.44	0.52
1:Q:563:GLU:O	1:Q:566:ILE:HG12	2.10	0.52
1:R:443:TYR:CZ	1:S:359:ALA:HB1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:443:TYR:CZ	1:5:359:ALA:HB1	2.45	0.52
1:V:563:GLU:O	1:V:566:ILE:HG12	2.10	0.52
1:W:437:ASN:HB2	1:Y:355:VAL:HG13	1.91	0.52
1:X:305:ASN:O	1:X:425:SER:OG	2.24	0.52
1:2:354:TYR:CZ	1:2:356:LEU:HB2	2.45	0.52
1:3:359:ALA:HB1	1:j:443:TYR:CZ	2.45	0.52
1:b:371:VAL:HG11	1:c:655:PRO:HG3	1.91	0.52
1:c:443:TYR:CZ	1:d:359:ALA:HB1	2.44	0.52
1:c:598:ASN:ND2	1:e:599:GLN:OE1	2.36	0.52
1:i:305:ASN:O	1:i:425:SER:OG	2.24	0.52
1:j:563:GLU:O	1:j:566:ILE:HG12	2.10	0.52
1:t:437:ASN:HB2	1:u:355:VAL:HG13	1.91	0.52
1:v:368:PRO:HB2	1:w:398:GLU:HB2	1.90	0.52
1:z:354:TYR:CZ	1:z:356:LEU:HB2	2.44	0.52
1:z:437:ASN:HB2	1:7:355:VAL:HG13	1.91	0.52
1:A:359:ALA:HB1	1:I:443:TYR:CZ	2.45	0.52
1:A:368:PRO:HB2	1:E:398:GLU:HB2	1.90	0.52
1:A:437:ASN:HB2	1:G:355:VAL:HG13	1.91	0.52
1:B:355:VAL:HG13	1:L:437:ASN:HB2	1.91	0.52
1:D:359:ALA:HB1	1:P:443:TYR:CZ	2.45	0.52
1:F:563:GLU:O	1:F:566:ILE:HG12	2.10	0.52
1:H:371:VAL:HG11	1:I:655:PRO:HG3	1.91	0.52
1:L:229:HIS:NE2	1:L:231:ASP:OD1	2.41	0.52
1:L:541:LEU:O	1:L:561:THR:HG22	2.10	0.52
1:R:590:GLN:HG2	1:S:497:ASN:HD21	1.73	0.52
1:W:354:TYR:CZ	1:W:356:LEU:HB2	2.44	0.52
1:X:497:ASN:HD21	1:5:590:GLN:HG2	1.73	0.52
1:Y:371:VAL:HG11	1:x:655:PRO:HG3	1.91	0.52
1:Z:541:LEU:O	1:Z:561:THR:HG22	2.10	0.52
1:3:590:GLN:HG2	1:i:497:ASN:HD21	1.73	0.52
1:6:354:TYR:CZ	1:6:356:LEU:HB2	2.45	0.52
1:b:229:HIS:NE2	1:b:231:ASP:OD1	2.41	0.52
1:d:443:TYR:CZ	1:e:359:ALA:HB1	2.45	0.52
1:k:590:GLN:HG2	1:l:497:ASN:HD21	1.73	0.52
1:o:443:TYR:CZ	1:p:359:ALA:HB1	2.45	0.52
1:p:354:TYR:CZ	1:p:356:LEU:HB2	2.45	0.52
1:t:541:LEU:O	1:t:561:THR:HG22	2.10	0.52
1:8:541:LEU:O	1:8:561:THR:HG22	2.10	0.52
1:A:354:TYR:CZ	1:A:356:LEU:HB2	2.45	0.52
1:E:359:ALA:HB1	1:F:443:TYR:CZ	2.45	0.52
1:F:371:VAL:HG11	1:G:655:PRO:HG3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:371:VAL:HG11	1:W:655:PRO:HG3	1.91	0.52
1:J:541:LEU:O	1:J:561:THR:HG22	2.10	0.52
1:K:355:VAL:HG13	1:8:437:ASN:HB2	1.91	0.52
1:K:655:PRO:HG3	1:7:371:VAL:HG11	1.91	0.52
1:M:229:HIS:NE2	1:M:231:ASP:OD1	2.41	0.52
1:Q:305:ASN:O	1:Q:425:SER:OG	2.25	0.52
1:Q:354:TYR:CZ	1:Q:356:LEU:HB2	2.45	0.52
1:R:563:GLU:O	1:R:566:ILE:HG12	2.10	0.52
1:T:563:GLU:O	1:T:566:ILE:HG12	2.10	0.52
1:V:359:ALA:HB1	1:X:443:TYR:CZ	2.45	0.52
1:3:541:LEU:O	1:3:561:THR:HG22	2.10	0.52
1:b:354:TYR:CZ	1:b:356:LEU:HB2	2.45	0.52
1:e:354:TYR:CZ	1:e:356:LEU:HB2	2.44	0.52
1:g:563:GLU:O	1:g:566:ILE:HG12	2.09	0.52
1:i:443:TYR:CZ	1:j:359:ALA:HB1	2.45	0.52
1:j:655:PRO:HG3	1:z:371:VAL:HG11	1.91	0.52
1:o:655:PRO:HG3	1:y:371:VAL:HG11	1.91	0.52
1:p:368:PRO:HB2	1:q:398:GLU:HB2	1.90	0.52
1:s:563:GLU:O	1:s:566:ILE:HG12	2.10	0.52
1:w:541:LEU:O	1:w:561:THR:HG22	2.10	0.52
1:B:563:GLU:O	1:B:566:ILE:HG12	2.10	0.52
1:D:354:TYR:CZ	1:D:356:LEU:HB2	2.44	0.52
1:J:443:TYR:CZ	1:L:359:ALA:HB1	2.45	0.52
1:M:541:LEU:O	1:M:561:THR:HG22	2.10	0.52
1:N:443:TYR:CZ	1:P:359:ALA:HB1	2.45	0.52
1:P:541:LEU:O	1:P:561:THR:HG22	2.10	0.52
1:P:563:GLU:O	1:P:566:ILE:HG12	2.10	0.52
1:V:655:PRO:HG3	1:W:371:VAL:HG11	1.91	0.52
1:W:563:GLU:O	1:W:566:ILE:HG12	2.10	0.52
1:Z:563:GLU:O	1:Z:566:ILE:HG12	2.10	0.52
1:1:541:LEU:O	1:1:561:THR:HG22	2.10	0.52
1:5:541:LEU:O	1:5:561:THR:HG22	2.10	0.52
1:5:563:GLU:O	1:5:566:ILE:HG12	2.10	0.52
1:6:541:LEU:O	1:6:561:THR:HG22	2.10	0.52
1:c:541:LEU:O	1:c:561:THR:HG22	2.10	0.52
1:d:541:LEU:O	1:d:561:THR:HG22	2.10	0.52
1:g:541:LEU:O	1:g:561:THR:HG22	2.10	0.52
1:k:368:PRO:HB2	1:s:398:GLU:HB2	1.90	0.52
1:k:563:GLU:O	1:k:566:ILE:HG12	2.10	0.52
1:n:355:VAL:HG13	1:p:437:ASN:HB2	1.91	0.52
1:n:655:PRO:HG3	1:s:371:VAL:HG11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:371:VAL:HG11	1:v:655:PRO:HG3	1.91	0.52
1:p:655:PRO:HG3	1:u:371:VAL:HG11	1.91	0.52
1:q:359:ALA:HB1	1:s:443:TYR:CZ	2.45	0.52
1:r:354:TYR:CZ	1:r:356:LEU:HB2	2.45	0.52
1:u:305:ASN:O	1:u:425:SER:OG	2.25	0.52
1:u:563:GLU:O	1:u:566:ILE:HG12	2.10	0.52
1:v:354:TYR:CZ	1:v:356:LEU:HB2	2.44	0.52
1:v:541:LEU:O	1:v:561:THR:HG22	2.10	0.52
1:v:563:GLU:O	1:v:566:ILE:HG12	2.10	0.52
1:F:541:LEU:O	1:F:561:THR:HG22	2.10	0.52
1:G:443:TYR:CZ	1:I:359:ALA:HB1	2.45	0.52
1:H:359:ALA:HB1	1:Y:443:TYR:CZ	2.45	0.52
1:I:371:VAL:HG11	1:J:655:PRO:HG3	1.91	0.52
1:K:443:TYR:CZ	1:1:359:ALA:HB1	2.45	0.52
1:N:541:LEU:O	1:N:561:THR:HG22	2.10	0.52
1:O:443:TYR:CZ	1:g:359:ALA:HB1	2.45	0.52
1:R:359:ALA:HB1	1:U:443:TYR:CZ	2.45	0.52
1:T:541:LEU:O	1:T:561:THR:HG22	2.10	0.52
1:V:541:LEU:O	1:V:561:THR:HG22	2.10	0.52
1:W:541:LEU:O	1:W:561:THR:HG22	2.10	0.52
1:X:371:VAL:HG11	1:Y:655:PRO:HG3	1.91	0.52
1:Z:437:ASN:HB2	1:x:355:VAL:HG13	1.91	0.52
1:2:541:LEU:O	1:2:561:THR:HG22	2.10	0.52
1:3:563:GLU:O	1:3:566:ILE:HG12	2.10	0.52
1:b:541:LEU:O	1:b:561:THR:HG22	2.10	0.52
1:n:371:VAL:HG11	1:z:655:PRO:HG3	1.91	0.52
1:n:443:TYR:CZ	1:o:359:ALA:HB1	2.45	0.52
1:r:305:ASN:O	1:r:425:SER:OG	2.25	0.52
1:t:359:ALA:HB1	1:v:443:TYR:CZ	2.45	0.52
1:w:359:ALA:HB1	1:x:443:TYR:CZ	2.45	0.52
1:y:359:ALA:HB1	1:7:443:TYR:CZ	2.45	0.52
1:y:655:PRO:HG3	1:8:371:VAL:HG11	1.91	0.52
1:z:541:LEU:O	1:z:561:THR:HG22	2.10	0.52
1:B:305:ASN:O	1:B:425:SER:OG	2.25	0.52
1:D:443:TYR:CZ	1:N:359:ALA:HB1	2.45	0.52
1:F:398:GLU:HB2	1:R:368:PRO:HB2	1.90	0.52
1:H:655:PRO:HG3	1:Z:371:VAL:HG11	1.91	0.52
1:J:354:TYR:CZ	1:J:356:LEU:HB2	2.44	0.52
1:J:563:GLU:O	1:J:566:ILE:HG12	2.10	0.52
1:K:354:TYR:CZ	1:K:356:LEU:HB2	2.45	0.52
1:K:371:VAL:HG11	1:L:655:PRO:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:563:GLU:O	1:N:566:ILE:HG12	2.10	0.52
1:O:541:LEU:O	1:O:561:THR:HG22	2.10	0.52
1:T:359:ALA:HB1	1:f:443:TYR:CZ	2.45	0.52
1:U:371:VAL:HG11	1:5:655:PRO:HG3	1.91	0.52
1:3:655:PRO:HG3	1:m:371:VAL:HG11	1.91	0.52
1:5:354:TYR:CZ	1:5:356:LEU:HB2	2.45	0.52
1:d:563:GLU:O	1:d:566:ILE:HG12	2.10	0.52
1:f:541:LEU:O	1:f:561:THR:HG22	2.10	0.52
1:j:541:LEU:O	1:j:561:THR:HG22	2.10	0.52
1:k:359:ALA:HB1	1:m:443:TYR:CZ	2.45	0.52
1:n:541:LEU:O	1:n:561:THR:HG22	2.10	0.52
1:s:541:LEU:O	1:s:561:THR:HG22	2.10	0.52
1:t:354:TYR:CZ	1:t:356:LEU:HB2	2.44	0.52
1:z:563:GLU:O	1:z:566:ILE:HG12	2.10	0.52
1:8:563:GLU:O	1:8:566:ILE:HG12	2.10	0.52
1:A:563:GLU:O	1:A:566:ILE:HG12	2.10	0.52
1:G:354:TYR:CZ	1:G:356:LEU:HB2	2.44	0.52
1:G:541:LEU:O	1:G:561:THR:HG22	2.10	0.52
1:H:563:GLU:O	1:H:566:ILE:HG12	2.10	0.52
1:L:354:TYR:CZ	1:L:356:LEU:HB2	2.44	0.52
1:S:541:LEU:O	1:S:561:THR:HG22	2.10	0.52
1:S:563:GLU:O	1:S:566:ILE:HG12	2.10	0.52
1:2:371:VAL:HG11	1:i:655:PRO:HG3	1.91	0.52
1:2:563:GLU:O	1:2:566:ILE:HG12	2.10	0.52
1:3:354:TYR:CZ	1:3:356:LEU:HB2	2.45	0.52
1:4:563:GLU:O	1:4:566:ILE:HG12	2.10	0.52
1:6:563:GLU:O	1:6:566:ILE:HG12	2.10	0.52
1:c:563:GLU:O	1:c:566:ILE:HG12	2.10	0.52
1:d:368:PRO:HB2	1:r:398:GLU:HB2	1.90	0.52
1:i:371:VAL:HG11	1:7:655:PRO:HG3	1.91	0.52
1:k:541:LEU:O	1:k:561:THR:HG22	2.10	0.52
1:n:354:TYR:CZ	1:n:356:LEU:HB2	2.44	0.52
1:t:655:PRO:HG3	1:x:371:VAL:HG11	1.91	0.52
1:w:354:TYR:CZ	1:w:356:LEU:HB2	2.45	0.52
1:x:354:TYR:CZ	1:x:356:LEU:HB2	2.45	0.52
1:y:563:GLU:O	1:y:566:ILE:HG12	2.10	0.52
1:z:443:TYR:CZ	1:7:359:ALA:HB1	2.45	0.52
1:E:599:GLN:OE1	1:Q:598:ASN:ND2	2.37	0.52
1:K:541:LEU:O	1:K:561:THR:HG22	2.10	0.52
1:O:359:ALA:HB1	1:h:443:TYR:CZ	2.45	0.52
1:R:354:TYR:CZ	1:R:356:LEU:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:541:LEU:O	1:R:561:THR:HG22	2.10	0.52
1:X:655:PRO:HG3	1:6:371:VAL:HG11	1.91	0.52
1:Y:541:LEU:O	1:Y:561:THR:HG22	2.10	0.52
1:1:354:TYR:CZ	1:1:356:LEU:HB2	2.45	0.52
1:2:305:ASN:O	1:2:425:SER:OG	2.24	0.52
1:4:354:TYR:CZ	1:4:356:LEU:HB2	2.45	0.52
1:c:359:ALA:HB1	1:e:443:TYR:CZ	2.45	0.52
1:g:443:TYR:CZ	1:h:359:ALA:HB1	2.45	0.52
1:h:563:GLU:O	1:h:566:ILE:HG12	2.10	0.52
1:l:541:LEU:O	1:l:561:THR:HG22	2.10	0.52
1:l:563:GLU:O	1:l:566:ILE:HG12	2.10	0.52
1:p:563:GLU:O	1:p:566:ILE:HG12	2.10	0.52
1:7:305:ASN:O	1:7:425:SER:OG	2.24	0.52
1:7:541:LEU:O	1:7:561:THR:HG22	2.10	0.52
1:D:563:GLU:O	1:D:566:ILE:HG12	2.10	0.51
1:M:655:PRO:HG3	1:3:371:VAL:HG11	1.91	0.51
1:N:437:ASN:HB2	1:P:355:VAL:HG13	1.91	0.51
1:S:443:TYR:CZ	1:U:359:ALA:HB1	2.45	0.51
1:T:355:VAL:HG13	1:f:437:ASN:HB2	1.91	0.51
1:T:443:TYR:CZ	1:4:359:ALA:HB1	2.45	0.51
1:W:443:TYR:CZ	1:Y:359:ALA:HB1	2.45	0.51
1:W:599:GLN:OE1	1:Y:598:ASN:ND2	2.37	0.51
1:Y:305:ASN:O	1:Y:425:SER:OG	2.24	0.51
1:4:443:TYR:CZ	1:f:359:ALA:HB1	2.45	0.51
1:6:655:PRO:HG3	1:t:371:VAL:HG11	1.91	0.51
1:e:563:GLU:O	1:e:566:ILE:HG12	2.10	0.51
1:h:354:TYR:CZ	1:h:356:LEU:HB2	2.45	0.51
1:q:563:GLU:O	1:q:566:ILE:HG12	2.10	0.51
1:x:541:LEU:O	1:x:561:THR:HG22	2.10	0.51
1:A:443:TYR:CZ	1:G:359:ALA:HB1	2.45	0.51
1:C:443:TYR:CZ	1:2:359:ALA:HB1	2.45	0.51
1:D:599:GLN:OE1	1:N:598:ASN:ND2	2.37	0.51
1:E:541:LEU:O	1:E:561:THR:HG22	2.10	0.51
1:E:563:GLU:O	1:E:566:ILE:HG12	2.10	0.51
1:F:359:ALA:HB1	1:Q:443:TYR:CZ	2.45	0.51
1:H:541:LEU:O	1:H:561:THR:HG22	2.10	0.51
1:H:590:GLN:HG2	1:W:497:ASN:HD21	1.73	0.51
1:O:437:ASN:HB2	1:g:355:VAL:HG13	1.91	0.51
1:P:368:PRO:HB2	1:Q:398:GLU:HB2	1.90	0.51
1:Y:247:TRP:HD1	1:Y:679:VAL:HG23	1.76	0.51
1:4:541:LEU:O	1:4:561:THR:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:371:VAL:HG11	1:b:655:PRO:HG3	1.91	0.51
1:6:305:ASN:O	1:6:425:SER:OG	2.24	0.51
1:6:359:ALA:HB1	1:a:443:TYR:CZ	2.45	0.51
1:h:541:LEU:O	1:h:561:THR:HG22	2.10	0.51
1:k:354:TYR:CZ	1:k:356:LEU:HB2	2.44	0.51
1:k:371:VAL:HG11	1:s:655:PRO:HG3	1.91	0.51
1:l:443:TYR:CZ	1:m:359:ALA:HB1	2.45	0.51
1:o:563:GLU:O	1:o:566:ILE:HG12	2.10	0.51
1:q:541:LEU:O	1:q:561:THR:HG22	2.10	0.51
1:t:443:TYR:CZ	1:u:359:ALA:HB1	2.45	0.51
1:z:599:GLN:OE1	1:7:598:ASN:ND2	2.37	0.51
1:7:247:TRP:HD1	1:7:679:VAL:HG23	1.76	0.51
1:B:359:ALA:HB1	1:L:443:TYR:CZ	2.45	0.51
1:C:541:LEU:O	1:C:561:THR:HG22	2.10	0.51
1:I:563:GLU:O	1:I:566:ILE:HG12	2.10	0.51
1:L:371:VAL:HG11	1:2:655:PRO:HG3	1.91	0.51
1:P:247:TRP:HD1	1:P:679:VAL:HG23	1.76	0.51
1:Z:359:ALA:HB1	1:w:443:TYR:CZ	2.45	0.51
1:l:437:ASN:HB2	1:m:355:VAL:HG13	1.91	0.51
1:m:354:TYR:CZ	1:m:356:LEU:HB2	2.44	0.51
1:n:359:ALA:HB1	1:p:443:TYR:CZ	2.45	0.51
1:r:443:TYR:CZ	1:s:359:ALA:HB1	2.45	0.51
1:r:541:LEU:O	1:r:561:THR:HG22	2.10	0.51
1:Q:541:LEU:O	1:Q:561:THR:HG22	2.10	0.51
1:S:437:ASN:HB2	1:U:355:VAL:HG13	1.91	0.51
1:U:354:TYR:CZ	1:U:356:LEU:HB2	2.44	0.51
1:Y:563:GLU:O	1:Y:566:ILE:HG12	2.10	0.51
1:Z:305:ASN:O	1:Z:425:SER:OG	2.25	0.51
1:1:443:TYR:CZ	1:8:359:ALA:HB1	2.45	0.51
1:6:437:ASN:HB2	1:b:355:VAL:HG13	1.91	0.51
1:a:541:LEU:O	1:a:561:THR:HG22	2.10	0.51
1:d:247:TRP:HD1	1:d:679:VAL:HG23	1.76	0.51
1:i:354:TYR:CZ	1:i:356:LEU:HB2	2.44	0.51
1:k:355:VAL:HG13	1:m:437:ASN:HB2	1.91	0.51
1:y:541:LEU:O	1:y:561:THR:HG22	2.10	0.51
1:y:590:GLN:HG2	1:z:497:ASN:HD21	1.73	0.51
1:F:655:PRO:HG3	1:R:371:VAL:HG11	1.91	0.51
1:R:355:VAL:HG13	1:U:437:ASN:HB2	1.91	0.51
1:T:437:ASN:HB2	1:4:355:VAL:HG13	1.91	0.51
1:Z:443:TYR:CZ	1:x:359:ALA:HB1	2.45	0.51
1:i:247:TRP:HD1	1:i:679:VAL:HG23	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:599:GLN:OE1	1:l:598:ASN:ND2	2.37	0.51
1:u:541:LEU:O	1:u:561:THR:HG22	2.10	0.51
1:8:305:ASN:O	1:8:425:SER:OG	2.25	0.51
1:B:541:LEU:O	1:B:561:THR:HG22	2.10	0.51
1:D:541:LEU:O	1:D:561:THR:HG22	2.10	0.51
1:K:359:ALA:HB1	1:8:443:TYR:CZ	2.45	0.51
1:K:437:ASN:HB2	1:1:355:VAL:HG13	1.91	0.51
1:L:563:GLU:O	1:L:566:ILE:HG12	2.10	0.51
1:M:355:VAL:HG13	1:2:437:ASN:HB2	1.91	0.51
1:V:354:TYR:CZ	1:V:356:LEU:HB2	2.45	0.51
1:X:247:TRP:HD1	1:X:679:VAL:HG23	1.76	0.51
1:X:354:TYR:CZ	1:X:356:LEU:HB2	2.45	0.51
1:X:355:VAL:HG13	1:5:437:ASN:HB2	1.91	0.51
1:d:371:VAL:HG11	1:r:655:PRO:HG3	1.91	0.51
1:d:599:GLN:OE1	1:e:598:ASN:ND2	2.37	0.51
1:e:541:LEU:O	1:e:561:THR:HG22	2.10	0.51
1:j:247:TRP:HD1	1:j:679:VAL:HG23	1.76	0.51
1:t:563:GLU:O	1:t:566:ILE:HG12	2.10	0.51
1:w:355:VAL:HG13	1:x:437:ASN:HB2	1.91	0.51
1:y:599:GLN:OE1	1:z:598:ASN:ND2	2.37	0.51
1:7:563:GLU:O	1:7:566:ILE:HG12	2.10	0.51
1:C:247:TRP:HD1	1:C:679:VAL:HG23	1.76	0.51
1:P:371:VAL:HG11	1:Q:655:PRO:HG3	1.91	0.51
1:R:305:ASN:O	1:R:425:SER:OG	2.25	0.51
1:V:247:TRP:HD1	1:V:679:VAL:HG23	1.76	0.51
1:g:437:ASN:HB2	1:h:355:VAL:HG13	1.91	0.51
1:j:354:TYR:CZ	1:j:356:LEU:HB2	2.45	0.51
1:C:354:TYR:CZ	1:C:356:LEU:HB2	2.45	0.51
1:H:305:ASN:O	1:H:425:SER:OG	2.24	0.51
1:H:355:VAL:HG13	1:Y:437:ASN:HB2	1.91	0.51
1:X:359:ALA:HB1	1:5:443:TYR:CZ	2.45	0.51
1:X:541:LEU:O	1:X:561:THR:HG22	2.10	0.51
1:3:437:ASN:HB2	1:i:355:VAL:HG13	1.91	0.51
1:a:354:TYR:CZ	1:a:356:LEU:HB2	2.45	0.51
1:g:599:GLN:OE1	1:h:598:ASN:ND2	2.37	0.51
1:m:541:LEU:O	1:m:561:THR:HG22	2.10	0.51
1:p:541:LEU:O	1:p:561:THR:HG22	2.10	0.51
1:D:598:ASN:ND2	1:P:599:GLN:OE1	2.37	0.51
1:R:599:GLN:OE1	1:S:598:ASN:ND2	2.37	0.51
1:U:541:LEU:O	1:U:561:THR:HG22	2.10	0.51
1:a:247:TRP:HD1	1:a:679:VAL:HG23	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:LEU:O	1:A:561:THR:HG22	2.10	0.51
1:H:599:GLN:OE1	1:W:598:ASN:ND2	2.37	0.51
1:M:359:ALA:HB1	1:2:443:TYR:CZ	2.45	0.51
1:3:443:TYR:CZ	1:i:359:ALA:HB1	2.45	0.51
1:6:443:TYR:CZ	1:b:359:ALA:HB1	2.45	0.51
1:b:319:ASN:ND2	1:c:404:MET:SD	2.84	0.51
1:i:541:LEU:O	1:i:561:THR:HG22	2.10	0.51
1:y:355:VAL:HG13	1:7:437:ASN:HB2	1.91	0.51
1:Q:319:ASN:ND2	1:S:404:MET:SD	2.85	0.50
1:T:305:ASN:O	1:T:425:SER:OG	2.24	0.50
1:3:598:ASN:ND2	1:j:599:GLN:OE1	2.38	0.50
1:k:305:ASN:O	1:k:425:SER:OG	2.25	0.50
1:l:404:MET:SD	1:r:319:ASN:ND2	2.85	0.50
1:A:305:ASN:O	1:A:425:SER:OG	2.25	0.50
1:D:355:VAL:HG13	1:P:437:ASN:HB2	1.91	0.50
1:J:247:TRP:HD1	1:J:679:VAL:HG23	1.76	0.50
1:N:305:ASN:O	1:N:425:SER:OG	2.25	0.50
1:O:404:MET:SD	1:4:319:ASN:ND2	2.85	0.50
1:T:599:GLN:OE1	1:4:598:ASN:ND2	2.37	0.50
1:f:350:TYR:OH	1:f:643:PRO:O	2.25	0.50
1:f:404:MET:SD	1:h:319:ASN:ND2	2.85	0.50
1:v:247:TRP:HD1	1:v:679:VAL:HG23	1.76	0.50
1:v:305:ASN:O	1:v:425:SER:OG	2.25	0.50
1:D:275:PHE:HB3	1:D:383:ASN:HB3	1.94	0.50
1:M:257:TYR:O	1:3:719:GLY:HA2	2.12	0.50
1:O:275:PHE:HB3	1:O:383:ASN:HB3	1.94	0.50
1:T:319:ASN:ND2	1:U:404:MET:SD	2.85	0.50
1:V:599:GLN:OE1	1:5:598:ASN:ND2	2.38	0.50
1:1:275:PHE:HB3	1:1:383:ASN:HB3	1.94	0.50
1:j:257:TYR:O	1:z:719:GLY:HA2	2.12	0.50
1:k:719:GLY:HA2	1:s:257:TYR:O	2.11	0.50
1:o:719:GLY:HA2	1:v:257:TYR:O	2.12	0.50
1:w:275:PHE:HB3	1:w:383:ASN:HB3	1.94	0.50
1:B:275:PHE:HB3	1:B:383:ASN:HB3	1.94	0.50
1:B:404:MET:SD	1:C:319:ASN:ND2	2.85	0.50
1:F:257:TYR:O	1:R:719:GLY:HA2	2.11	0.50
1:G:275:PHE:HB3	1:G:383:ASN:HB3	1.94	0.50
1:I:719:GLY:HA2	1:J:257:TYR:O	2.12	0.50
1:R:275:PHE:HB3	1:R:383:ASN:HB3	1.94	0.50
1:V:257:TYR:O	1:W:719:GLY:HA2	2.12	0.50
1:X:404:MET:SD	1:6:319:ASN:ND2	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:319:ASN:ND2	1:i:404:MET:SD	2.85	0.50
1:5:719:GLY:HA2	1:b:257:TYR:O	2.12	0.50
1:a:275:PHE:HB3	1:a:383:ASN:HB3	1.94	0.50
1:b:719:GLY:HA2	1:c:257:TYR:O	2.11	0.50
1:f:275:PHE:HB3	1:f:383:ASN:HB3	1.94	0.50
1:g:305:ASN:O	1:g:425:SER:OG	2.24	0.50
1:g:319:ASN:ND2	1:m:404:MET:SD	2.85	0.50
1:j:319:ASN:ND2	1:k:404:MET:SD	2.85	0.50
1:k:275:PHE:HB3	1:k:383:ASN:HB3	1.94	0.50
1:n:275:PHE:HB3	1:n:383:ASN:HB3	1.94	0.50
1:p:275:PHE:HB3	1:p:383:ASN:HB3	1.94	0.50
1:u:275:PHE:HB3	1:u:383:ASN:HB3	1.94	0.50
1:A:275:PHE:HB3	1:A:383:ASN:HB3	1.94	0.50
1:C:275:PHE:HB3	1:C:383:ASN:HB3	1.94	0.50
1:J:305:ASN:O	1:J:425:SER:OG	2.25	0.50
1:K:257:TYR:O	1:7:719:GLY:HA2	2.12	0.50
1:R:404:MET:SD	1:V:319:ASN:ND2	2.85	0.50
1:S:320:ILE:O	1:S:407:THR:HG23	2.12	0.50
1:U:719:GLY:HA2	1:5:257:TYR:O	2.12	0.50
1:W:275:PHE:HB3	1:W:383:ASN:HB3	1.94	0.50
1:Y:719:GLY:HA2	1:x:257:TYR:O	2.12	0.50
1:3:257:TYR:O	1:m:719:GLY:HA2	2.12	0.50
1:4:320:ILE:O	1:4:407:THR:HG23	2.12	0.50
1:a:319:ASN:ND2	1:u:404:MET:SD	2.85	0.50
1:c:305:ASN:O	1:c:425:SER:OG	2.24	0.50
1:d:437:ASN:HB2	1:e:355:VAL:HG13	1.91	0.50
1:e:275:PHE:HB3	1:e:383:ASN:HB3	1.94	0.50
1:h:320:ILE:O	1:h:407:THR:HG23	2.12	0.50
1:B:247:TRP:HD1	1:B:679:VAL:HG23	1.76	0.50
1:D:404:MET:SD	1:E:319:ASN:ND2	2.85	0.50
1:I:541:LEU:O	1:I:561:THR:HG22	2.10	0.50
1:M:320:ILE:O	1:M:407:THR:HG23	2.12	0.50
1:N:319:ASN:ND2	1:g:404:MET:SD	2.85	0.50
1:S:719:GLY:HA2	1:4:257:TYR:O	2.12	0.50
1:T:257:TYR:O	1:c:719:GLY:HA2	2.12	0.50
1:1:495:GLN:HE22	1:1:533:ARG:NH1	2.10	0.50
1:2:719:GLY:HA2	1:i:257:TYR:O	2.12	0.50
1:b:320:ILE:O	1:b:407:THR:HG23	2.12	0.50
1:d:404:MET:SD	1:f:319:ASN:ND2	2.85	0.50
1:g:320:ILE:O	1:g:407:THR:HG23	2.12	0.50
1:l:320:ILE:O	1:l:407:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:404:MET:SD	1:y:319:ASN:ND2	2.85	0.50
1:o:541:LEU:O	1:o:561:THR:HG22	2.10	0.50
1:t:320:ILE:O	1:t:407:THR:HG23	2.12	0.50
1:w:495:GLN:HE22	1:w:533:ARG:NH1	2.10	0.50
1:z:275:PHE:HB3	1:z:383:ASN:HB3	1.94	0.50
1:A:404:MET:SD	1:B:319:ASN:ND2	2.85	0.50
1:B:320:ILE:O	1:B:407:THR:HG23	2.12	0.50
1:C:257:TYR:O	1:D:719:GLY:HA2	2.12	0.50
1:E:275:PHE:HB3	1:E:383:ASN:HB3	1.94	0.50
1:F:319:ASN:ND2	1:G:404:MET:SD	2.85	0.50
1:H:319:ASN:ND2	1:I:404:MET:SD	2.85	0.50
1:H:320:ILE:O	1:H:407:THR:HG23	2.12	0.50
1:I:275:PHE:HB3	1:I:383:ASN:HB3	1.94	0.50
1:K:319:ASN:ND2	1:L:404:MET:SD	2.85	0.50
1:L:320:ILE:O	1:L:407:THR:HG23	2.12	0.50
1:O:319:ASN:ND2	1:P:404:MET:SD	2.85	0.50
1:S:319:ASN:ND2	1:4:404:MET:SD	2.85	0.50
1:T:320:ILE:O	1:T:407:THR:HG23	2.12	0.50
1:U:319:ASN:ND2	1:5:404:MET:SD	2.85	0.50
1:X:257:TYR:O	1:6:719:GLY:HA2	2.12	0.50
1:g:247:TRP:HD1	1:g:679:VAL:HG23	1.76	0.50
1:h:257:TYR:O	1:l:719:GLY:HA2	2.12	0.50
1:h:404:MET:SD	1:l:319:ASN:ND2	2.85	0.50
1:j:404:MET:SD	1:z:319:ASN:ND2	2.85	0.50
1:n:404:MET:SD	1:s:319:ASN:ND2	2.85	0.50
1:o:275:PHE:HB3	1:o:383:ASN:HB3	1.94	0.50
1:q:275:PHE:HB3	1:q:383:ASN:HB3	1.94	0.50
1:t:404:MET:SD	1:x:319:ASN:ND2	2.85	0.50
1:u:247:TRP:HD1	1:u:679:VAL:HG23	1.76	0.50
1:u:320:ILE:O	1:u:407:THR:HG23	2.12	0.50
1:C:404:MET:SD	1:D:319:ASN:ND2	2.85	0.50
1:D:305:ASN:O	1:D:425:SER:OG	2.25	0.50
1:D:495:GLN:HE22	1:D:533:ARG:NH1	2.10	0.50
1:I:319:ASN:ND2	1:J:404:MET:SD	2.85	0.50
1:I:320:ILE:O	1:I:407:THR:HG23	2.12	0.50
1:M:404:MET:SD	1:3:319:ASN:ND2	2.85	0.50
1:N:719:GLY:HA2	1:g:257:TYR:O	2.12	0.50
1:O:257:TYR:O	1:4:719:GLY:HA2	2.12	0.50
1:P:719:GLY:HA2	1:Q:257:TYR:O	2.12	0.50
1:T:247:TRP:HD1	1:T:679:VAL:HG23	1.76	0.50
1:V:404:MET:SD	1:W:319:ASN:ND2	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:275:PHE:HB3	1:Z:383:ASN:HB3	1.94	0.50
1:1:320:ILE:O	1:1:407:THR:HG23	2.12	0.50
1:3:404:MET:SD	1:m:319:ASN:ND2	2.85	0.50
1:3:495:GLN:HE22	1:3:533:ARG:NH1	2.10	0.50
1:5:247:TRP:HD1	1:5:679:VAL:HG23	1.76	0.50
1:5:319:ASN:ND2	1:b:404:MET:SD	2.85	0.50
1:d:719:GLY:HA2	1:r:257:TYR:O	2.12	0.50
1:e:305:ASN:O	1:e:425:SER:OG	2.24	0.50
1:e:404:MET:SD	1:q:319:ASN:ND2	2.85	0.50
1:e:495:GLN:HE22	1:e:533:ARG:NH1	2.10	0.50
1:o:319:ASN:ND2	1:v:404:MET:SD	2.85	0.50
1:u:495:GLN:HE22	1:u:533:ARG:NH1	2.10	0.50
1:v:719:GLY:HA2	1:w:257:TYR:O	2.12	0.50
1:w:320:ILE:O	1:w:407:THR:HG23	2.12	0.50
1:y:320:ILE:O	1:y:407:THR:HG23	2.12	0.50
1:8:275:PHE:HB3	1:8:383:ASN:HB3	1.94	0.50
1:B:495:GLN:HE22	1:B:533:ARG:NH1	2.10	0.50
1:F:275:PHE:HB3	1:F:383:ASN:HB3	1.94	0.50
1:F:719:GLY:HA2	1:G:257:TYR:O	2.12	0.50
1:J:719:GLY:HA2	1:1:257:TYR:O	2.12	0.50
1:M:319:ASN:ND2	1:N:404:MET:SD	2.85	0.50
1:P:320:ILE:O	1:P:407:THR:HG23	2.12	0.50
1:T:495:GLN:HE22	1:T:533:ARG:NH1	2.10	0.50
1:V:495:GLN:HE22	1:V:533:ARG:NH1	2.10	0.50
1:W:247:TRP:HD1	1:W:679:VAL:HG23	1.76	0.50
1:3:247:TRP:HD1	1:3:679:VAL:HG23	1.76	0.50
1:5:495:GLN:HE22	1:5:533:ARG:NH1	2.10	0.50
1:a:257:TYR:O	1:e:719:GLY:HA2	2.12	0.50
1:a:404:MET:SD	1:e:319:ASN:ND2	2.85	0.50
1:d:320:ILE:O	1:d:407:THR:HG23	2.12	0.50
1:f:257:TYR:O	1:h:719:GLY:HA2	2.12	0.50
1:g:495:GLN:HE22	1:g:533:ARG:NH1	2.10	0.50
1:n:257:TYR:O	1:s:719:GLY:HA2	2.12	0.50
1:o:320:ILE:O	1:o:407:THR:HG23	2.12	0.50
1:p:404:MET:SD	1:u:319:ASN:ND2	2.85	0.50
1:w:247:TRP:HD1	1:w:679:VAL:HG23	1.76	0.50
1:8:247:TRP:HD1	1:8:679:VAL:HG23	1.76	0.50
1:A:495:GLN:HE22	1:A:533:ARG:NH1	2.10	0.49
1:K:320:ILE:O	1:K:407:THR:HG23	2.12	0.49
1:K:719:GLY:HA2	1:L:257:TYR:O	2.12	0.49
1:L:495:GLN:HE22	1:L:533:ARG:NH1	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:319:ASN:ND2	1:Q:404:MET:SD	2.85	0.49
1:Y:495:GLN:HE22	1:Y:533:ARG:NH1	2.10	0.49
1:Z:247:TRP:HD1	1:Z:679:VAL:HG23	1.76	0.49
1:4:247:TRP:HD1	1:4:679:VAL:HG23	1.76	0.49
1:4:495:GLN:HE22	1:4:533:ARG:NH1	2.10	0.49
1:d:319:ASN:ND2	1:r:404:MET:SD	2.85	0.49
1:i:719:GLY:HA2	1:7:257:TYR:O	2.12	0.49
1:j:495:GLN:HE22	1:j:533:ARG:NH1	2.10	0.49
1:p:319:ASN:ND2	1:q:404:MET:SD	2.85	0.49
1:s:275:PHE:HB3	1:s:383:ASN:HB3	1.94	0.49
1:t:257:TYR:O	1:x:719:GLY:HA2	2.12	0.49
1:x:320:ILE:O	1:x:407:THR:HG23	2.12	0.49
1:7:495:GLN:HE22	1:7:533:ARG:NH1	2.10	0.49
1:A:257:TYR:O	1:B:719:GLY:HA2	2.11	0.49
1:A:319:ASN:ND2	1:E:404:MET:SD	2.85	0.49
1:G:495:GLN:HE22	1:G:533:ARG:NH1	2.10	0.49
1:I:495:GLN:HE22	1:I:533:ARG:NH1	2.10	0.49
1:M:275:PHE:HB3	1:M:383:ASN:HB3	1.94	0.49
1:Q:275:PHE:HB3	1:Q:383:ASN:HB3	1.94	0.49
1:Z:320:ILE:O	1:Z:407:THR:HG23	2.12	0.49
1:1:247:TRP:HD1	1:1:679:VAL:HG23	1.76	0.49
1:6:247:TRP:HD1	1:6:679:VAL:HG23	1.76	0.49
1:6:257:TYR:O	1:t:719:GLY:HA2	2.12	0.49
1:g:275:PHE:HB3	1:g:383:ASN:HB3	1.94	0.49
1:g:719:GLY:HA2	1:m:257:TYR:O	2.12	0.49
1:h:495:GLN:HE22	1:h:533:ARG:NH1	2.10	0.49
1:n:495:GLN:HE22	1:n:533:ARG:NH1	2.10	0.49
1:p:495:GLN:HE22	1:p:533:ARG:NH1	2.10	0.49
1:t:495:GLN:HE22	1:t:533:ARG:NH1	2.10	0.49
1:z:247:TRP:HD1	1:z:679:VAL:HG23	1.76	0.49
1:H:495:GLN:HE22	1:H:533:ARG:NH1	2.10	0.49
1:L:719:GLY:HA2	1:2:257:TYR:O	2.12	0.49
1:M:719:GLY:HA2	1:N:257:TYR:O	2.12	0.49
1:O:320:ILE:O	1:O:407:THR:HG23	2.12	0.49
1:T:275:PHE:HB3	1:T:383:ASN:HB3	1.94	0.49
1:T:719:GLY:HA2	1:U:257:TYR:O	2.12	0.49
1:U:247:TRP:HD1	1:U:679:VAL:HG23	1.76	0.49
1:U:275:PHE:HB3	1:U:383:ASN:HB3	1.94	0.49
1:W:495:GLN:HE22	1:W:533:ARG:NH1	2.10	0.49
1:X:319:ASN:ND2	1:Y:404:MET:SD	2.85	0.49
1:X:719:GLY:HA2	1:Y:257:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:257:TYR:O	1:1:719:GLY:HA2	2.12	0.49
1:3:275:PHE:HB3	1:3:383:ASN:HB3	1.94	0.49
1:5:320:ILE:O	1:5:407:THR:HG23	2.12	0.49
1:b:275:PHE:HB3	1:b:383:ASN:HB3	1.94	0.49
1:b:495:GLN:HE22	1:b:533:ARG:NH1	2.10	0.49
1:e:247:TRP:HD1	1:e:679:VAL:HG23	1.76	0.49
1:f:320:ILE:O	1:f:407:THR:HG23	2.12	0.49
1:h:247:TRP:HD1	1:h:679:VAL:HG23	1.76	0.49
1:j:719:GLY:HA2	1:k:257:TYR:O	2.12	0.49
1:l:257:TYR:O	1:r:719:GLY:HA2	2.12	0.49
1:l:495:GLN:HE22	1:l:533:ARG:NH1	2.10	0.49
1:o:495:GLN:HE22	1:o:533:ARG:NH1	2.10	0.49
1:o:599:GLN:OE1	1:p:598:ASN:ND2	2.37	0.49
1:w:319:ASN:ND2	1:8:404:MET:SD	2.85	0.49
1:y:247:TRP:HD1	1:y:679:VAL:HG23	1.76	0.49
1:y:275:PHE:HB3	1:y:383:ASN:HB3	1.94	0.49
1:y:495:GLN:HE22	1:y:533:ARG:NH1	2.10	0.49
1:8:320:ILE:O	1:8:407:THR:HG23	2.12	0.49
1:A:598:ASN:ND2	1:I:599:GLN:OE1	2.37	0.49
1:E:495:GLN:HE22	1:E:533:ARG:NH1	2.10	0.49
1:G:319:ASN:ND2	1:W:404:MET:SD	2.85	0.49
1:H:275:PHE:HB3	1:H:383:ASN:HB3	1.94	0.49
1:M:495:GLN:HE22	1:M:533:ARG:NH1	2.10	0.49
1:O:599:GLN:OE1	1:g:598:ASN:ND2	2.37	0.49
1:Q:719:GLY:HA2	1:S:257:TYR:O	2.12	0.49
1:R:257:TYR:O	1:V:719:GLY:HA2	2.12	0.49
1:S:495:GLN:HE22	1:S:533:ARG:NH1	2.10	0.49
1:T:404:MET:SD	1:c:319:ASN:ND2	2.86	0.49
1:T:598:ASN:ND2	1:f:599:GLN:OE1	2.37	0.49
1:Z:404:MET:SD	1:1:319:ASN:ND2	2.85	0.49
1:5:275:PHE:HB3	1:5:383:ASN:HB3	1.94	0.49
1:d:257:TYR:O	1:f:719:GLY:HA2	2.12	0.49
1:i:599:GLN:OE1	1:j:598:ASN:ND2	2.37	0.49
1:m:275:PHE:HB3	1:m:383:ASN:HB3	1.94	0.49
1:n:319:ASN:ND2	1:z:404:MET:SD	2.85	0.49
1:p:257:TYR:O	1:u:719:GLY:HA2	2.11	0.49
1:q:320:ILE:O	1:q:407:THR:HG23	2.12	0.49
1:q:495:GLN:HE22	1:q:533:ARG:NH1	2.10	0.49
1:r:275:PHE:HB3	1:r:383:ASN:HB3	1.94	0.49
1:r:599:GLN:OE1	1:s:598:ASN:ND2	2.37	0.49
1:w:719:GLY:HA2	1:8:257:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:495:GLN:HE22	1:z:533:ARG:NH1	2.10	0.49
1:D:247:TRP:HD1	1:D:679:VAL:HG23	1.76	0.49
1:E:320:ILE:O	1:E:407:THR:HG23	2.12	0.49
1:H:247:TRP:HD1	1:H:679:VAL:HG23	1.76	0.49
1:J:320:ILE:O	1:J:407:THR:HG23	2.12	0.49
1:K:598:ASN:ND2	1:8:599:GLN:OE1	2.37	0.49
1:M:247:TRP:HD1	1:M:679:VAL:HG23	1.76	0.49
1:O:719:GLY:HA2	1:P:257:TYR:O	2.12	0.49
1:X:495:GLN:HE22	1:X:533:ARG:NH1	2.10	0.49
1:2:247:TRP:HD1	1:2:679:VAL:HG23	1.76	0.49
1:2:320:ILE:O	1:2:407:THR:HG23	2.12	0.49
1:3:320:ILE:O	1:3:407:THR:HG23	2.12	0.49
1:6:320:ILE:O	1:6:407:THR:HG23	2.12	0.49
1:i:319:ASN:ND2	1:7:404:MET:SD	2.85	0.49
1:m:247:TRP:HD1	1:m:679:VAL:HG23	1.76	0.49
1:o:247:TRP:HD1	1:o:679:VAL:HG23	1.76	0.49
1:t:247:TRP:HD1	1:t:679:VAL:HG23	1.76	0.49
1:F:598:ASN:ND2	1:Q:599:GLN:OE1	2.37	0.49
1:H:719:GLY:HA2	1:I:257:TYR:O	2.12	0.49
1:I:247:TRP:HD1	1:I:679:VAL:HG23	1.76	0.49
1:V:320:ILE:O	1:V:407:THR:HG23	2.12	0.49
1:i:495:GLN:HE22	1:i:533:ARG:NH1	2.10	0.49
1:n:719:GLY:HA2	1:z:257:TYR:O	2.12	0.49
1:o:257:TYR:O	1:y:719:GLY:HA2	2.12	0.49
1:r:495:GLN:HE22	1:r:533:ARG:NH1	2.10	0.49
1:v:320:ILE:O	1:v:407:THR:HG23	2.12	0.49
1:H:404:MET:SD	1:Z:319:ASN:ND2	2.85	0.49
1:K:495:GLN:HE22	1:K:533:ARG:NH1	2.10	0.49
1:L:319:ASN:ND2	1:2:404:MET:SD	2.85	0.49
1:Q:495:GLN:HE22	1:Q:533:ARG:NH1	2.10	0.49
1:R:320:ILE:O	1:R:407:THR:HG23	2.12	0.49
1:Y:320:ILE:O	1:Y:407:THR:HG23	2.12	0.49
1:4:275:PHE:HB3	1:4:383:ASN:HB3	1.94	0.49
1:6:404:MET:SD	1:t:319:ASN:ND2	2.85	0.49
1:b:247:TRP:HD1	1:b:679:VAL:HG23	1.76	0.49
1:d:275:PHE:HB3	1:d:383:ASN:HB3	1.94	0.49
1:j:320:ILE:O	1:j:407:THR:HG23	2.12	0.49
1:k:319:ASN:ND2	1:s:404:MET:SD	2.85	0.49
1:s:320:ILE:O	1:s:407:THR:HG23	2.12	0.49
1:x:495:GLN:HE22	1:x:533:ARG:NH1	2.10	0.49
1:y:404:MET:SD	1:8:319:ASN:ND2	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:429:SER:C	1:z:382:LEU:HD13	2.38	0.49
1:E:382:LEU:HD13	1:F:429:SER:C	2.38	0.49
1:F:320:ILE:O	1:F:407:THR:HG23	2.12	0.49
1:F:404:MET:SD	1:R:319:ASN:ND2	2.85	0.49
1:G:719:GLY:HA2	1:W:257:TYR:O	2.12	0.49
1:H:429:SER:C	1:W:382:LEU:HD13	2.38	0.49
1:L:247:TRP:HD1	1:L:679:VAL:HG23	1.76	0.49
1:N:275:PHE:HB3	1:N:383:ASN:HB3	1.94	0.49
1:P:275:PHE:HB3	1:P:383:ASN:HB3	1.94	0.49
1:X:320:ILE:O	1:X:407:THR:HG23	2.12	0.49
1:a:320:ILE:O	1:a:407:THR:HG23	2.12	0.49
1:a:719:GLY:HA2	1:u:257:TYR:O	2.12	0.49
1:d:495:GLN:HE22	1:d:533:ARG:NH1	2.10	0.49
1:h:275:PHE:HB3	1:h:383:ASN:HB3	1.94	0.49
1:k:320:ILE:O	1:k:407:THR:HG23	2.12	0.49
1:p:247:TRP:HD1	1:p:679:VAL:HG23	1.76	0.49
1:7:320:ILE:O	1:7:407:THR:HG23	2.12	0.49
1:A:320:ILE:O	1:A:407:THR:HG23	2.12	0.49
1:B:257:TYR:O	1:C:719:GLY:HA2	2.12	0.49
1:C:320:ILE:O	1:C:407:THR:HG23	2.12	0.49
1:F:286:PHE:CE1	1:F:313:LEU:HD11	2.48	0.49
1:J:275:PHE:HB3	1:J:383:ASN:HB3	1.94	0.49
1:J:319:ASN:ND2	1:1:404:MET:SD	2.85	0.49
1:J:429:SER:C	1:L:382:LEU:HD13	2.38	0.49
1:O:247:TRP:HD1	1:O:679:VAL:HG23	1.76	0.49
1:P:495:GLN:HE22	1:P:533:ARG:NH1	2.10	0.49
1:V:598:ASN:ND2	1:X:599:GLN:OE1	2.37	0.49
1:Y:319:ASN:ND2	1:x:404:MET:SD	2.85	0.49
1:Z:599:GLN:OE1	1:x:598:ASN:ND2	2.37	0.49
1:2:286:PHE:CE1	1:2:313:LEU:HD11	2.48	0.49
1:2:495:GLN:HE22	1:2:533:ARG:NH1	2.10	0.49
1:a:425:SER:HB2	1:a:729:THR:HG22	1.95	0.49
1:c:275:PHE:HB3	1:c:383:ASN:HB3	1.94	0.49
1:c:286:PHE:CE1	1:c:313:LEU:HD11	2.48	0.49
1:i:320:ILE:O	1:i:407:THR:HG23	2.12	0.49
1:m:320:ILE:O	1:m:407:THR:HG23	2.12	0.49
1:p:320:ILE:O	1:p:407:THR:HG23	2.12	0.49
1:q:382:LEU:HD13	1:s:429:SER:C	2.38	0.49
1:q:598:ASN:ND2	1:s:599:GLN:OE1	2.37	0.49
1:r:320:ILE:O	1:r:407:THR:HG23	2.12	0.49
1:s:286:PHE:CE1	1:s:313:LEU:HD11	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:257:TYR:O	1:8:719:GLY:HA2	2.12	0.49
1:A:719:GLY:HA2	1:E:257:TYR:O	2.12	0.49
1:B:598:ASN:ND2	1:L:599:GLN:OE1	2.37	0.49
1:C:286:PHE:CE1	1:C:313:LEU:HD11	2.48	0.49
1:C:425:SER:HB2	1:C:729:THR:HG22	1.95	0.49
1:D:286:PHE:CE1	1:D:313:LEU:HD11	2.48	0.49
1:E:286:PHE:CE1	1:E:313:LEU:HD11	2.48	0.49
1:J:425:SER:HB2	1:J:729:THR:HG22	1.95	0.49
1:J:599:GLN:OE1	1:L:598:ASN:ND2	2.37	0.49
1:M:598:ASN:ND2	1:2:599:GLN:OE1	2.37	0.49
1:N:286:PHE:CE1	1:N:313:LEU:HD11	2.48	0.49
1:O:429:SER:C	1:g:382:LEU:HD13	2.38	0.49
1:Q:320:ILE:O	1:Q:407:THR:HG23	2.12	0.49
1:V:429:SER:C	1:5:382:LEU:HD13	2.38	0.49
1:X:382:LEU:HD13	1:5:429:SER:C	2.38	0.49
1:3:382:LEU:HD13	1:j:429:SER:C	2.38	0.49
1:6:286:PHE:CE1	1:6:313:LEU:HD11	2.48	0.49
1:6:495:GLN:HE22	1:6:533:ARG:NH1	2.10	0.49
1:e:286:PHE:CE1	1:e:313:LEU:HD11	2.48	0.49
1:q:286:PHE:CE1	1:q:313:LEU:HD11	2.48	0.49
1:t:382:LEU:HD13	1:v:429:SER:C	2.38	0.49
1:t:599:GLN:OE1	1:u:598:ASN:ND2	2.37	0.49
1:v:319:ASN:ND2	1:w:404:MET:SD	2.85	0.49
1:v:425:SER:HB2	1:v:729:THR:HG22	1.95	0.49
1:z:320:ILE:O	1:z:407:THR:HG23	2.12	0.49
1:A:247:TRP:HD1	1:A:679:VAL:HG23	1.76	0.48
1:D:320:ILE:O	1:D:407:THR:HG23	2.12	0.48
1:G:320:ILE:O	1:G:407:THR:HG23	2.12	0.48
1:H:257:TYR:O	1:Z:719:GLY:HA2	2.12	0.48
1:H:382:LEU:HD13	1:Y:429:SER:C	2.38	0.48
1:H:425:SER:HB2	1:H:729:THR:HG22	1.95	0.48
1:K:286:PHE:CE1	1:K:313:LEU:HD11	2.48	0.48
1:K:382:LEU:HD13	1:8:429:SER:C	2.38	0.48
1:K:404:MET:SD	1:7:319:ASN:ND2	2.85	0.48
1:U:320:ILE:O	1:U:407:THR:HG23	2.12	0.48
1:W:320:ILE:O	1:W:407:THR:HG23	2.12	0.48
1:3:429:SER:C	1:i:382:LEU:HD13	2.38	0.48
1:6:275:PHE:HB3	1:6:383:ASN:HB3	1.94	0.48
1:a:286:PHE:CE1	1:a:313:LEU:HD11	2.48	0.48
1:c:382:LEU:HD13	1:e:429:SER:C	2.38	0.48
1:i:286:PHE:CE1	1:i:313:LEU:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:429:SER:C	1:j:382:LEU:HD13	2.38	0.48
1:q:425:SER:HB2	1:q:729:THR:HG22	1.95	0.48
1:s:495:GLN:HE22	1:s:533:ARG:NH1	2.10	0.48
1:u:425:SER:HB2	1:u:729:THR:HG22	1.95	0.48
1:v:275:PHE:HB3	1:v:383:ASN:HB3	1.94	0.48
1:x:286:PHE:CE1	1:x:313:LEU:HD11	2.48	0.48
1:y:425:SER:HB2	1:y:729:THR:HG22	1.95	0.48
1:z:286:PHE:CE1	1:z:313:LEU:HD11	2.48	0.48
1:7:275:PHE:HB3	1:7:383:ASN:HB3	1.94	0.48
1:B:425:SER:HB2	1:B:729:THR:HG22	1.95	0.48
1:D:429:SER:C	1:N:382:LEU:HD13	2.38	0.48
1:E:425:SER:HB2	1:E:729:THR:HG22	1.95	0.48
1:E:429:SER:C	1:Q:382:LEU:HD13	2.38	0.48
1:E:598:ASN:ND2	1:F:599:GLN:OE1	2.37	0.48
1:I:286:PHE:CE1	1:I:313:LEU:HD11	2.48	0.48
1:K:425:SER:HB2	1:K:729:THR:HG22	1.95	0.48
1:N:320:ILE:O	1:N:407:THR:HG23	2.12	0.48
1:T:382:LEU:HD13	1:f:429:SER:C	2.38	0.48
1:W:286:PHE:CE1	1:W:313:LEU:HD11	2.48	0.48
1:X:286:PHE:CE1	1:X:313:LEU:HD11	2.48	0.48
1:Y:275:PHE:HB3	1:Y:383:ASN:HB3	1.94	0.48
1:Z:495:GLN:HE22	1:Z:533:ARG:NH1	2.10	0.48
1:2:275:PHE:HB3	1:2:383:ASN:HB3	1.94	0.48
1:3:286:PHE:CE1	1:3:313:LEU:HD11	2.48	0.48
1:3:425:SER:HB2	1:3:729:THR:HG22	1.95	0.48
1:5:286:PHE:CE1	1:5:313:LEU:HD11	2.48	0.48
1:c:320:ILE:O	1:c:407:THR:HG23	2.12	0.48
1:d:425:SER:HB2	1:d:729:THR:HG22	1.95	0.48
1:e:320:ILE:O	1:e:407:THR:HG23	2.12	0.48
1:j:275:PHE:HB3	1:j:383:ASN:HB3	1.94	0.48
1:n:320:ILE:O	1:n:407:THR:HG23	2.12	0.48
1:p:719:GLY:HA2	1:q:257:TYR:O	2.12	0.48
1:q:429:SER:C	1:r:382:LEU:HD13	2.38	0.48
1:t:275:PHE:HB3	1:t:383:ASN:HB3	1.94	0.48
1:x:275:PHE:HB3	1:x:383:ASN:HB3	1.94	0.48
1:x:425:SER:HB2	1:x:729:THR:HG22	1.95	0.48
1:y:382:LEU:HD13	1:7:429:SER:C	2.38	0.48
1:8:495:GLN:HE22	1:8:533:ARG:NH1	2.10	0.48
1:A:425:SER:HB2	1:A:729:THR:HG22	1.95	0.48
1:D:257:TYR:O	1:E:719:GLY:HA2	2.12	0.48
1:F:495:GLN:HE22	1:F:533:ARG:NH1	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:275:PHE:HB3	1:K:383:ASN:HB3	1.94	0.48
1:L:275:PHE:HB3	1:L:383:ASN:HB3	1.94	0.48
1:O:425:SER:HB2	1:O:729:THR:HG22	1.95	0.48
1:P:286:PHE:CE1	1:P:313:LEU:HD11	2.48	0.48
1:P:425:SER:HB2	1:P:729:THR:HG22	1.95	0.48
1:S:286:PHE:CE1	1:S:313:LEU:HD11	2.48	0.48
1:U:286:PHE:CE1	1:U:313:LEU:HD11	2.48	0.48
1:V:275:PHE:HB3	1:V:383:ASN:HB3	1.94	0.48
1:V:382:LEU:HD13	1:X:429:SER:C	2.38	0.48
1:V:437:ASN:HB2	1:5:355:VAL:CG1	2.43	0.48
1:W:425:SER:HB2	1:W:729:THR:HG22	1.95	0.48
1:Y:425:SER:HB2	1:Y:729:THR:HG22	1.95	0.48
1:Z:286:PHE:CE1	1:Z:313:LEU:HD11	2.48	0.48
1:Z:425:SER:HB2	1:Z:729:THR:HG22	1.96	0.48
1:Z:429:SER:C	1:x:382:LEU:HD13	2.38	0.48
1:3:355:VAL:CG1	1:j:437:ASN:HB2	2.43	0.48
1:5:425:SER:HB2	1:5:729:THR:HG22	1.95	0.48
1:c:437:ASN:HB2	1:d:355:VAL:CG1	2.43	0.48
1:c:495:GLN:HE22	1:c:533:ARG:NH1	2.10	0.48
1:f:247:TRP:HD1	1:f:679:VAL:HG23	1.76	0.48
1:k:247:TRP:HD1	1:k:679:VAL:HG23	1.76	0.48
1:m:286:PHE:CE1	1:m:313:LEU:HD11	2.48	0.48
1:o:286:PHE:CE1	1:o:313:LEU:HD11	2.48	0.48
1:p:425:SER:HB2	1:p:729:THR:HG22	1.95	0.48
1:u:350:TYR:OH	1:u:643:PRO:O	2.25	0.48
1:u:429:SER:C	1:v:382:LEU:HD13	2.38	0.48
1:w:286:PHE:CE1	1:w:313:LEU:HD11	2.48	0.48
1:z:425:SER:HB2	1:z:729:THR:HG22	1.95	0.48
1:8:425:SER:HB2	1:8:729:THR:HG22	1.96	0.48
1:B:429:SER:C	1:J:382:LEU:HD13	2.38	0.48
1:J:495:GLN:HE22	1:J:533:ARG:NH1	2.10	0.48
1:N:495:GLN:HE22	1:N:533:ARG:NH1	2.10	0.48
1:S:275:PHE:HB3	1:S:383:ASN:HB3	1.94	0.48
1:T:429:SER:C	1:4:382:LEU:HD13	2.38	0.48
1:X:275:PHE:HB3	1:X:383:ASN:HB3	1.94	0.48
1:1:286:PHE:CE1	1:1:313:LEU:HD11	2.48	0.48
1:2:425:SER:HB2	1:2:729:THR:HG22	1.95	0.48
1:4:425:SER:HB2	1:4:729:THR:HG22	1.95	0.48
1:6:425:SER:HB2	1:6:729:THR:HG22	1.95	0.48
1:6:599:GLN:OE1	1:b:598:ASN:ND2	2.37	0.48
1:c:247:TRP:HD1	1:c:679:VAL:HG23	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:519:ASN:HB3	1:e:475:GLY:HA2	1.95	0.48
1:d:286:PHE:CE1	1:d:313:LEU:HD11	2.48	0.48
1:e:257:TYR:O	1:q:719:GLY:HA2	2.12	0.48
1:f:425:SER:HB2	1:f:729:THR:HG22	1.96	0.48
1:h:425:SER:HB2	1:h:729:THR:HG22	1.95	0.48
1:i:275:PHE:HB3	1:i:383:ASN:HB3	1.94	0.48
1:l:286:PHE:CE1	1:l:313:LEU:HD11	2.48	0.48
1:u:437:ASN:HB2	1:v:355:VAL:CG1	2.44	0.48
1:v:495:GLN:HE22	1:v:533:ARG:NH1	2.10	0.48
1:w:382:LEU:HD13	1:x:429:SER:C	2.38	0.48
1:7:425:SER:HB2	1:7:729:THR:HG22	1.95	0.48
1:8:286:PHE:CE1	1:8:313:LEU:HD11	2.48	0.48
1:A:437:ASN:HB2	1:G:355:VAL:CG1	2.44	0.48
1:B:382:LEU:HD13	1:L:429:SER:C	2.38	0.48
1:B:437:ASN:HB2	1:J:355:VAL:CG1	2.44	0.48
1:C:495:GLN:HE22	1:C:533:ARG:NH1	2.10	0.48
1:G:429:SER:C	1:I:382:LEU:HD13	2.38	0.48
1:K:429:SER:C	1:1:382:LEU:HD13	2.38	0.48
1:O:286:PHE:CE1	1:O:313:LEU:HD11	2.48	0.48
1:O:437:ASN:HB2	1:g:355:VAL:CG1	2.44	0.48
1:O:495:GLN:HE22	1:O:533:ARG:NH1	2.10	0.48
1:R:495:GLN:HE22	1:R:533:ARG:NH1	2.10	0.48
1:T:437:ASN:HB2	1:4:355:VAL:CG1	2.43	0.48
1:V:286:PHE:CE1	1:V:313:LEU:HD11	2.48	0.48
1:Z:355:VAL:CG1	1:w:437:ASN:HB2	2.44	0.48
1:4:286:PHE:CE1	1:4:313:LEU:HD11	2.48	0.48
1:4:437:ASN:HB2	1:f:355:VAL:CG1	2.44	0.48
1:f:286:PHE:CE1	1:f:313:LEU:HD11	2.48	0.48
1:f:495:GLN:HE22	1:f:533:ARG:NH1	2.10	0.48
1:g:429:SER:C	1:h:382:LEU:HD13	2.38	0.48
1:g:437:ASN:HB2	1:h:355:VAL:CG1	2.44	0.48
1:h:286:PHE:CE1	1:h:313:LEU:HD11	2.48	0.48
1:n:599:GLN:OE1	1:o:598:ASN:ND2	2.37	0.48
1:t:598:ASN:ND2	1:v:599:GLN:OE1	2.37	0.48
1:u:599:GLN:OE1	1:v:598:ASN:ND2	2.37	0.48
1:y:286:PHE:CE1	1:y:313:LEU:HD11	2.48	0.48
1:B:434:ARG:HA	1:B:436:MET:HE3	1.96	0.48
1:C:429:SER:C	1:2:382:LEU:HD13	2.38	0.48
1:D:382:LEU:HD13	1:P:429:SER:C	2.38	0.48
1:E:437:ASN:HB2	1:Q:355:VAL:CG1	2.44	0.48
1:H:286:PHE:CE1	1:H:313:LEU:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:355:VAL:CG1	1:h:437:ASN:HB2	2.44	0.48
1:R:247:TRP:HD1	1:R:679:VAL:HG23	1.76	0.48
1:S:429:SER:C	1:U:382:LEU:HD13	2.38	0.48
1:T:355:VAL:CG1	1:f:437:ASN:HB2	2.44	0.48
1:1:437:ASN:HB2	1:8:355:VAL:CG1	2.44	0.48
1:a:495:GLN:HE22	1:a:533:ARG:NH1	2.10	0.48
1:c:599:GLN:OE1	1:d:598:ASN:ND2	2.37	0.48
1:d:429:SER:C	1:e:382:LEU:HD13	2.38	0.48
1:j:286:PHE:CE1	1:j:313:LEU:HD11	2.48	0.48
1:j:425:SER:HB2	1:j:729:THR:HG22	1.95	0.48
1:k:495:GLN:HE22	1:k:533:ARG:NH1	2.10	0.48
1:l:275:PHE:HB3	1:l:383:ASN:HB3	1.94	0.48
1:n:355:VAL:CG1	1:p:437:ASN:HB2	2.44	0.48
1:p:286:PHE:CE1	1:p:313:LEU:HD11	2.48	0.48
1:t:437:ASN:HB2	1:u:355:VAL:CG1	2.44	0.48
1:u:434:ARG:HA	1:u:436:MET:HE3	1.96	0.48
1:A:286:PHE:CE1	1:A:313:LEU:HD11	2.48	0.48
1:A:429:SER:C	1:G:382:LEU:HD13	2.38	0.48
1:B:355:VAL:CG1	1:L:437:ASN:HB2	2.44	0.48
1:C:437:ASN:HB2	1:2:355:VAL:CG1	2.43	0.48
1:F:355:VAL:CG1	1:Q:437:ASN:HB2	2.44	0.48
1:F:434:ARG:HA	1:F:436:MET:HE3	1.96	0.48
1:H:434:ARG:HA	1:H:436:MET:HE3	1.96	0.48
1:L:286:PHE:CE1	1:L:313:LEU:HD11	2.48	0.48
1:R:382:LEU:HD13	1:U:429:SER:C	2.38	0.48
1:S:425:SER:HB2	1:S:729:THR:HG22	1.95	0.48
1:U:434:ARG:HA	1:U:436:MET:HE3	1.96	0.48
1:U:495:GLN:HE22	1:U:533:ARG:NH1	2.10	0.48
1:V:425:SER:HB2	1:V:729:THR:HG22	1.95	0.48
1:W:429:SER:C	1:Y:382:LEU:HD13	2.38	0.48
1:6:355:VAL:CG1	1:a:437:ASN:HB2	2.43	0.48
1:6:382:LEU:HD13	1:a:429:SER:C	2.38	0.48
1:b:425:SER:HB2	1:b:729:THR:HG22	1.95	0.48
1:j:350:TYR:OH	1:j:643:PRO:O	2.25	0.48
1:l:247:TRP:HD1	1:l:679:VAL:HG23	1.76	0.48
1:m:434:ARG:HA	1:m:436:MET:HE3	1.96	0.48
1:m:495:GLN:HE22	1:m:533:ARG:NH1	2.10	0.48
1:n:429:SER:C	1:o:382:LEU:HD13	2.38	0.48
1:q:437:ASN:HB2	1:r:355:VAL:CG1	2.44	0.48
1:r:425:SER:HB2	1:r:729:THR:HG22	1.95	0.48
1:s:434:ARG:HA	1:s:436:MET:HE3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:286:PHE:CE1	1:t:313:LEU:HD11	2.48	0.48
1:t:429:SER:C	1:u:382:LEU:HD13	2.38	0.48
1:y:434:ARG:HA	1:y:436:MET:HE3	1.96	0.48
1:z:429:SER:C	1:7:382:LEU:HD13	2.38	0.48
1:C:355:VAL:CG1	1:M:437:ASN:HB2	2.44	0.48
1:C:434:ARG:HA	1:C:436:MET:HE3	1.96	0.48
1:E:355:VAL:CG1	1:F:437:ASN:HB2	2.44	0.48
1:E:519:ASN:HB3	1:F:475:GLY:HA2	1.96	0.48
1:J:286:PHE:CE1	1:J:313:LEU:HD11	2.48	0.48
1:J:437:ASN:HB2	1:L:355:VAL:CG1	2.44	0.48
1:M:425:SER:HB2	1:M:729:THR:HG22	1.95	0.48
1:N:247:TRP:HD1	1:N:679:VAL:HG23	1.76	0.48
1:Q:425:SER:HB2	1:Q:729:THR:HG22	1.95	0.48
1:R:355:VAL:CG1	1:U:437:ASN:HB2	2.44	0.48
1:R:434:ARG:HA	1:R:436:MET:HE3	1.96	0.48
1:S:475:GLY:HA2	1:U:519:ASN:HB3	1.96	0.48
1:Y:286:PHE:CE1	1:Y:313:LEU:HD11	2.48	0.48
1:3:437:ASN:HB2	1:i:355:VAL:CG1	2.44	0.48
1:a:355:VAL:CG1	1:b:437:ASN:HB2	2.44	0.48
1:a:434:ARG:HA	1:a:436:MET:HE3	1.96	0.48
1:k:355:VAL:CG1	1:m:437:ASN:HB2	2.44	0.48
1:k:382:LEU:HD13	1:m:429:SER:C	2.38	0.48
1:k:434:ARG:HA	1:k:436:MET:HE3	1.96	0.48
1:l:425:SER:HB2	1:l:729:THR:HG22	1.95	0.48
1:l:429:SER:C	1:m:382:LEU:HD13	2.38	0.48
1:q:355:VAL:CG1	1:s:437:ASN:HB2	2.44	0.48
1:q:519:ASN:HB3	1:s:475:GLY:HA2	1.96	0.48
1:r:437:ASN:HB2	1:s:355:VAL:CG1	2.44	0.48
1:7:286:PHE:CE1	1:7:313:LEU:HD11	2.48	0.48
1:A:355:VAL:CG1	1:I:437:ASN:HB2	2.44	0.48
1:A:382:LEU:HD13	1:I:429:SER:C	2.38	0.48
1:A:497:ASN:ND2	1:I:590:GLN:HG2	2.29	0.48
1:K:519:ASN:HB3	1:K:520:PRO:CD	2.39	0.48
1:N:599:GLN:OE1	1:P:598:ASN:ND2	2.37	0.48
1:S:437:ASN:HB2	1:U:355:VAL:CG1	2.44	0.48
1:V:355:VAL:CG1	1:X:437:ASN:HB2	2.44	0.48
1:X:355:VAL:CG1	1:5:437:ASN:HB2	2.44	0.48
1:i:437:ASN:HB2	1:j:355:VAL:CG1	2.44	0.48
1:k:429:SER:C	1:l:382:LEU:HD13	2.38	0.48
1:l:437:ASN:HB2	1:m:355:VAL:CG1	2.44	0.48
1:l:475:GLY:HA2	1:m:519:ASN:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:286:PHE:CE1	1:n:313:LEU:HD11	2.48	0.48
1:t:425:SER:HB2	1:t:729:THR:HG22	1.95	0.48
1:v:286:PHE:CE1	1:v:313:LEU:HD11	2.48	0.48
1:w:238:ARG:HH21	1:w:240:ILE:HD11	1.79	0.48
1:x:434:ARG:HA	1:x:436:MET:HE3	1.96	0.48
1:y:519:ASN:HB3	1:7:475:GLY:HA2	1.96	0.48
1:B:599:GLN:OE1	1:J:598:ASN:ND2	2.37	0.48
1:C:599:GLN:OE1	1:2:598:ASN:ND2	2.38	0.48
1:G:286:PHE:CE1	1:G:313:LEU:HD11	2.48	0.48
1:G:599:GLN:OE1	1:I:598:ASN:ND2	2.37	0.48
1:K:434:ARG:HA	1:K:436:MET:HE3	1.96	0.48
1:L:425:SER:HB2	1:L:729:THR:HG22	1.95	0.48
1:M:519:ASN:HB3	1:2:475:GLY:HA2	1.96	0.48
1:N:434:ARG:HA	1:N:436:MET:HE3	1.96	0.48
1:S:247:TRP:HD1	1:S:679:VAL:HG23	1.76	0.48
1:W:437:ASN:HB2	1:Y:355:VAL:CG1	2.44	0.48
1:1:238:ARG:HH21	1:1:240:ILE:HD11	1.79	0.48
1:6:429:SER:C	1:b:382:LEU:HD13	2.38	0.48
1:6:475:GLY:HA2	1:b:519:ASN:HB3	1.96	0.48
1:6:598:ASN:ND2	1:a:599:GLN:OE1	2.38	0.48
1:c:434:ARG:HA	1:c:436:MET:HE3	1.96	0.48
1:h:238:ARG:HH21	1:h:240:ILE:HD11	1.79	0.48
1:o:429:SER:C	1:p:382:LEU:HD13	2.38	0.48
1:o:437:ASN:HB2	1:p:355:VAL:CG1	2.44	0.48
1:o:590:GLN:HG2	1:p:497:ASN:ND2	2.29	0.48
1:t:238:ARG:HH21	1:t:240:ILE:HD11	1.79	0.48
1:t:355:VAL:CG1	1:v:437:ASN:HB2	2.44	0.48
1:u:286:PHE:CE1	1:u:313:LEU:HD11	2.48	0.48
1:y:437:ASN:HB2	1:z:355:VAL:CG1	2.44	0.48
1:D:355:VAL:CG1	1:P:437:ASN:HB2	2.44	0.47
1:G:425:SER:HB2	1:G:729:THR:HG22	1.95	0.47
1:H:437:ASN:HB2	1:W:355:VAL:CG1	2.44	0.47
1:H:519:ASN:HB3	1:Y:475:GLY:HA2	1.96	0.47
1:I:434:ARG:HA	1:I:436:MET:HE3	1.96	0.47
1:L:238:ARG:HH21	1:L:240:ILE:HD11	1.79	0.47
1:M:286:PHE:CE1	1:M:313:LEU:HD11	2.48	0.47
1:N:437:ASN:HB2	1:P:355:VAL:CG1	2.44	0.47
1:R:429:SER:C	1:S:382:LEU:HD13	2.38	0.47
1:T:286:PHE:CE1	1:T:313:LEU:HD11	2.48	0.47
1:V:350:TYR:OH	1:V:643:PRO:O	2.25	0.47
1:X:519:ASN:HB3	1:5:475:GLY:HA2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:519:ASN:HB3	1:w:475:GLY:HA2	1.96	0.47
1:2:434:ARG:HA	1:2:436:MET:HE3	1.96	0.47
1:3:350:TYR:OH	1:3:643:PRO:O	2.25	0.47
1:3:475:GLY:HA2	1:i:519:ASN:HB3	1.96	0.47
1:4:238:ARG:HH21	1:4:240:ILE:HD11	1.79	0.47
1:4:590:GLN:HG2	1:f:497:ASN:ND2	2.29	0.47
1:c:425:SER:HB2	1:c:729:THR:HG22	1.95	0.47
1:h:434:ARG:HA	1:h:436:MET:HE3	1.96	0.47
1:k:475:GLY:HA2	1:l:519:ASN:HB3	1.96	0.47
1:n:382:LEU:HD13	1:p:429:SER:C	2.38	0.47
1:o:425:SER:HB2	1:o:729:THR:HG22	1.95	0.47
1:o:434:ARG:HA	1:o:436:MET:HE3	1.96	0.47
1:r:286:PHE:CE1	1:r:313:LEU:HD11	2.48	0.47
1:A:424:SER:HB2	1:A:426:TYR:CE2	2.50	0.47
1:B:286:PHE:CE1	1:B:313:LEU:HD11	2.48	0.47
1:C:519:ASN:HB3	1:M:475:GLY:HA2	1.96	0.47
1:C:590:GLN:HG2	1:2:497:ASN:ND2	2.29	0.47
1:G:434:ARG:HA	1:G:436:MET:HE3	1.96	0.47
1:I:323:LYS:HE3	1:J:654:VAL:HG11	1.96	0.47
1:I:424:SER:HB2	1:I:426:TYR:CE2	2.50	0.47
1:I:425:SER:HB2	1:I:729:THR:HG22	1.95	0.47
1:M:382:LEU:HD13	1:2:429:SER:C	2.38	0.47
1:N:425:SER:HB2	1:N:729:THR:HG22	1.95	0.47
1:N:519:ASN:HB3	1:N:520:PRO:CD	2.39	0.47
1:O:497:ASN:ND2	1:h:590:GLN:HG2	2.30	0.47
1:P:238:ARG:HH21	1:P:240:ILE:HD11	1.79	0.47
1:R:286:PHE:CE1	1:R:313:LEU:HD11	2.48	0.47
1:R:475:GLY:HA2	1:S:519:ASN:HB3	1.96	0.47
1:4:429:SER:C	1:f:382:LEU:HD13	2.38	0.47
1:4:434:ARG:HA	1:4:436:MET:HE3	1.96	0.47
1:6:434:ARG:HA	1:6:436:MET:HE3	1.96	0.47
1:6:497:ASN:ND2	1:a:590:GLN:HG2	2.29	0.47
1:b:286:PHE:CE1	1:b:313:LEU:HD11	2.48	0.47
1:c:519:ASN:HB3	1:c:520:PRO:CD	2.39	0.47
1:d:437:ASN:HB2	1:e:355:VAL:CG1	2.44	0.47
1:e:238:ARG:HH21	1:e:240:ILE:HD11	1.79	0.47
1:j:654:VAL:HG11	1:z:323:LYS:HE3	1.97	0.47
1:k:598:ASN:ND2	1:m:599:GLN:OE1	2.37	0.47
1:m:424:SER:HB2	1:m:426:TYR:CE2	2.49	0.47
1:n:425:SER:HB2	1:n:729:THR:HG22	1.95	0.47
1:n:434:ARG:HA	1:n:436:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:323:LYS:HE3	1:v:654:VAL:HG11	1.96	0.47
1:o:424:SER:HB2	1:o:426:TYR:CE2	2.50	0.47
1:r:424:SER:HB2	1:r:426:TYR:CE2	2.50	0.47
1:w:425:SER:HB2	1:w:729:THR:HG22	1.95	0.47
1:y:475:GLY:HA2	1:z:519:ASN:HB3	1.96	0.47
1:z:437:ASN:HB2	1:7:355:VAL:CG1	2.44	0.47
1:7:238:ARG:HH21	1:7:240:ILE:HD11	1.79	0.47
1:A:475:GLY:HA2	1:G:519:ASN:HB3	1.96	0.47
1:D:238:ARG:HH21	1:D:240:ILE:HD11	1.79	0.47
1:D:437:ASN:HB2	1:N:355:VAL:CG1	2.44	0.47
1:D:475:GLY:HA2	1:N:519:ASN:HB3	1.96	0.47
1:F:382:LEU:HD13	1:Q:429:SER:C	2.38	0.47
1:H:475:GLY:HA2	1:W:519:ASN:HB3	1.96	0.47
1:K:355:VAL:CG1	1:8:437:ASN:HB2	2.44	0.47
1:O:382:LEU:HD13	1:h:429:SER:C	2.38	0.47
1:Q:286:PHE:CE1	1:Q:313:LEU:HD11	2.48	0.47
1:Q:424:SER:HB2	1:Q:426:TYR:CE2	2.50	0.47
1:R:598:ASN:ND2	1:U:599:GLN:OE1	2.37	0.47
1:S:590:GLN:HG2	1:U:497:ASN:ND2	2.30	0.47
1:U:424:SER:HB2	1:U:426:TYR:CE2	2.49	0.47
1:V:654:VAL:HG11	1:W:323:LYS:HE3	1.97	0.47
1:Z:598:ASN:ND2	1:w:599:GLN:OE1	2.37	0.47
1:1:425:SER:HB2	1:1:729:THR:HG22	1.95	0.47
1:1:475:GLY:HA2	1:8:519:ASN:HB3	1.96	0.47
1:b:323:LYS:HE3	1:c:654:VAL:HG11	1.96	0.47
1:c:355:VAL:CG1	1:e:437:ASN:HB2	2.44	0.47
1:c:475:GLY:HA2	1:d:519:ASN:HB3	1.96	0.47
1:d:238:ARG:HH21	1:d:240:ILE:HD11	1.79	0.47
1:g:286:PHE:CE1	1:g:313:LEU:HD11	2.48	0.47
1:g:590:GLN:HG2	1:h:497:ASN:ND2	2.29	0.47
1:j:323:LYS:HE3	1:k:654:VAL:HG11	1.96	0.47
1:k:286:PHE:CE1	1:k:313:LEU:HD11	2.48	0.47
1:l:590:GLN:HG2	1:m:497:ASN:ND2	2.30	0.47
1:n:437:ASN:HB2	1:o:355:VAL:CG1	2.44	0.47
1:p:424:SER:HB2	1:p:426:TYR:CE2	2.50	0.47
1:q:247:TRP:HD1	1:q:679:VAL:HG23	1.76	0.47
1:F:238:ARG:HH21	1:F:240:ILE:HD11	1.79	0.47
1:H:355:VAL:CG1	1:Y:437:ASN:HB2	2.44	0.47
1:K:238:ARG:HH21	1:K:240:ILE:HD11	1.79	0.47
1:K:424:SER:HB2	1:K:426:TYR:CE2	2.50	0.47
1:K:475:GLY:HA2	1:1:519:ASN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:429:SER:C	1:P:382:LEU:HD13	2.38	0.47
1:P:424:SER:HB2	1:P:426:TYR:CE2	2.49	0.47
1:P:434:ARG:HA	1:P:436:MET:HE3	1.96	0.47
1:R:654:VAL:HG11	1:V:323:LYS:HE3	1.96	0.47
1:S:238:ARG:HH21	1:S:240:ILE:HD11	1.79	0.47
1:S:434:ARG:HA	1:S:436:MET:HE3	1.96	0.47
1:T:590:GLN:HG2	1:4:497:ASN:ND2	2.29	0.47
1:W:424:SER:HB2	1:W:426:TYR:CE2	2.49	0.47
1:Y:238:ARG:HH21	1:Y:240:ILE:HD11	1.79	0.47
1:1:424:SER:HB2	1:1:426:TYR:CE2	2.50	0.47
1:1:599:GLN:OE1	1:8:598:ASN:ND2	2.37	0.47
1:2:424:SER:HB2	1:2:426:TYR:CE2	2.49	0.47
1:6:424:SER:HB2	1:6:426:TYR:CE2	2.49	0.47
1:a:382:LEU:HD13	1:b:429:SER:C	2.38	0.47
1:a:519:ASN:HB3	1:b:475:GLY:HA2	1.96	0.47
1:c:238:ARG:HH21	1:c:240:ILE:HD11	1.79	0.47
1:d:424:SER:HB2	1:d:426:TYR:CE2	2.49	0.47
1:f:424:SER:HB2	1:f:426:TYR:CE2	2.49	0.47
1:h:424:SER:HB2	1:h:426:TYR:CE2	2.50	0.47
1:j:238:ARG:HH21	1:j:240:ILE:HD11	1.79	0.47
1:k:437:ASN:HB2	1:l:355:VAL:CG1	2.44	0.47
1:l:238:ARG:HH21	1:l:240:ILE:HD11	1.79	0.47
1:l:434:ARG:HA	1:l:436:MET:HE3	1.96	0.47
1:n:519:ASN:HB3	1:p:475:GLY:HA2	1.96	0.47
1:r:429:SER:C	1:s:382:LEU:HD13	2.38	0.47
1:w:424:SER:HB2	1:w:426:TYR:CE2	2.50	0.47
1:x:238:ARG:HH21	1:x:240:ILE:HD11	1.79	0.47
1:x:424:SER:HB2	1:x:426:TYR:CE2	2.49	0.47
1:y:355:VAL:CG1	1:7:437:ASN:HB2	2.44	0.47
1:C:382:LEU:HD13	1:M:429:SER:C	2.38	0.47
1:D:434:ARG:HA	1:D:436:MET:HE3	1.96	0.47
1:E:247:TRP:HD1	1:E:679:VAL:HG23	1.76	0.47
1:E:497:ASN:ND2	1:F:590:GLN:HG2	2.29	0.47
1:F:425:SER:HB2	1:F:729:THR:HG22	1.95	0.47
1:G:437:ASN:HB2	1:I:355:VAL:CG1	2.44	0.47
1:H:323:LYS:HE3	1:I:654:VAL:HG11	1.97	0.47
1:I:238:ARG:HH21	1:I:240:ILE:HD11	1.79	0.47
1:M:355:VAL:CG1	1:2:437:ASN:HB2	2.44	0.47
1:N:238:ARG:HH21	1:N:240:ILE:HD11	1.79	0.47
1:O:424:SER:HB2	1:O:426:TYR:CE2	2.50	0.47
1:R:437:ASN:HB2	1:S:355:VAL:CG1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:424:SER:HB2	1:T:426:TYR:CE2	2.49	0.47
1:V:238:ARG:HH21	1:V:240:ILE:HD11	1.79	0.47
1:Z:437:ASN:HB2	1:x:355:VAL:CG1	2.44	0.47
1:Z:497:ASN:ND2	1:w:590:GLN:HG2	2.29	0.47
1:1:590:GLN:HG2	1:8:497:ASN:ND2	2.29	0.47
1:4:424:SER:HB2	1:4:426:TYR:CE2	2.50	0.47
1:5:434:ARG:HA	1:5:436:MET:HE3	1.96	0.47
1:6:238:ARG:HH21	1:6:240:ILE:HD11	1.79	0.47
1:b:678:GLN:HG2	1:c:404:MET:HE1	1.97	0.47
1:c:429:SER:C	1:d:382:LEU:HD13	2.38	0.47
1:d:434:ARG:HA	1:d:436:MET:HE3	1.96	0.47
1:d:475:GLY:HA2	1:e:519:ASN:HB3	1.96	0.47
1:e:434:ARG:HA	1:e:436:MET:HE3	1.96	0.47
1:k:238:ARG:HH21	1:k:240:ILE:HD11	1.79	0.47
1:m:238:ARG:HH21	1:m:240:ILE:HD11	1.79	0.47
1:m:425:SER:HB2	1:m:729:THR:HG22	1.95	0.47
1:o:238:ARG:HH21	1:o:240:ILE:HD11	1.79	0.47
1:o:654:VAL:HG11	1:y:323:LYS:HE3	1.97	0.47
1:s:238:ARG:HH21	1:s:240:ILE:HD11	1.79	0.47
1:u:424:SER:HB2	1:u:426:TYR:CE2	2.49	0.47
1:w:519:ASN:HB3	1:x:475:GLY:HA2	1.97	0.47
1:B:424:SER:HB2	1:B:426:TYR:CE2	2.49	0.47
1:D:424:SER:HB2	1:D:426:TYR:CE2	2.49	0.47
1:D:519:ASN:HB3	1:P:475:GLY:HA2	1.96	0.47
1:G:238:ARG:HH21	1:G:240:ILE:HD11	1.79	0.47
1:J:475:GLY:HA2	1:L:519:ASN:HB3	1.96	0.47
1:K:497:ASN:ND2	1:8:590:GLN:HG2	2.30	0.47
1:O:434:ARG:HA	1:O:436:MET:HE3	1.96	0.47
1:R:238:ARG:HH21	1:R:240:ILE:HD11	1.79	0.47
1:S:424:SER:HB2	1:S:426:TYR:CE2	2.49	0.47
1:U:425:SER:HB2	1:U:729:THR:HG22	1.95	0.47
1:Z:590:GLN:HG2	1:x:497:ASN:ND2	2.30	0.47
1:3:238:ARG:HH21	1:3:240:ILE:HD11	1.79	0.47
1:3:434:ARG:HA	1:3:436:MET:HE3	1.96	0.47
1:4:599:GLN:OE1	1:f:598:ASN:ND2	2.37	0.47
1:6:437:ASN:HB2	1:b:355:VAL:CG1	2.44	0.47
1:e:425:SER:HB2	1:e:729:THR:HG22	1.95	0.47
1:g:424:SER:HB2	1:g:426:TYR:CE2	2.49	0.47
1:i:590:GLN:HG2	1:j:497:ASN:ND2	2.30	0.47
1:l:424:SER:HB2	1:l:426:TYR:CE2	2.49	0.47
1:q:497:ASN:ND2	1:s:590:GLN:HG2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:425:SER:HB2	1:s:729:THR:HG22	1.95	0.47
1:v:238:ARG:HH21	1:v:240:ILE:HD11	1.79	0.47
1:y:654:VAL:HG11	1:8:323:LYS:HE3	1.97	0.47
1:z:424:SER:HB2	1:z:426:TYR:CE2	2.49	0.47
1:A:519:ASN:HB3	1:I:475:GLY:HA2	1.96	0.47
1:D:425:SER:HB2	1:D:729:THR:HG22	1.95	0.47
1:F:519:ASN:HB3	1:Q:475:GLY:HA2	1.97	0.47
1:G:424:SER:HB2	1:G:426:TYR:CE2	2.50	0.47
1:H:424:SER:HB2	1:H:426:TYR:CE2	2.49	0.47
1:H:654:VAL:HG11	1:Z:323:LYS:HE3	1.97	0.47
1:J:238:ARG:HH21	1:J:240:ILE:HD11	1.79	0.47
1:J:424:SER:HB2	1:J:426:TYR:CE2	2.49	0.47
1:L:323:LYS:HE3	1:2:654:VAL:HG11	1.97	0.47
1:P:323:LYS:HE3	1:Q:654:VAL:HG11	1.97	0.47
1:R:425:SER:HB2	1:R:729:THR:HG22	1.95	0.47
1:T:238:ARG:HH21	1:T:240:ILE:HD11	1.79	0.47
1:T:434:ARG:HA	1:T:436:MET:HE3	1.96	0.47
1:U:238:ARG:HH21	1:U:240:ILE:HD11	1.79	0.47
1:V:497:ASN:ND2	1:X:590:GLN:HG2	2.30	0.47
1:W:475:GLY:HA2	1:Y:519:ASN:HB3	1.96	0.47
1:Y:323:LYS:HE3	1:x:654:VAL:HG11	1.97	0.47
1:Y:434:ARG:HA	1:Y:436:MET:HE3	1.96	0.47
1:Z:475:GLY:HA2	1:x:519:ASN:HB3	1.96	0.47
1:Z:654:VAL:HG11	1:1:323:LYS:HE3	1.97	0.47
1:1:429:SER:C	1:8:382:LEU:HD13	2.38	0.47
1:1:434:ARG:HA	1:1:436:MET:HE3	1.96	0.47
1:2:238:ARG:HH21	1:2:240:ILE:HD11	1.79	0.47
1:5:238:ARG:HH21	1:5:240:ILE:HD11	1.79	0.47
1:5:323:LYS:HE3	1:b:654:VAL:HG11	1.97	0.47
1:6:654:VAL:HG11	1:t:323:LYS:HE3	1.97	0.47
1:a:323:LYS:HE3	1:u:654:VAL:HG11	1.96	0.47
1:d:323:LYS:HE3	1:r:654:VAL:HG11	1.97	0.47
1:e:424:SER:HB2	1:e:426:TYR:CE2	2.49	0.47
1:f:434:ARG:HA	1:f:436:MET:HE3	1.96	0.47
1:g:238:ARG:HH21	1:g:240:ILE:HD11	1.79	0.47
1:g:434:ARG:HA	1:g:436:MET:HE3	1.96	0.47
1:k:425:SER:HB2	1:k:729:THR:HG22	1.95	0.47
1:n:238:ARG:HH21	1:n:240:ILE:HD11	1.79	0.47
1:n:424:SER:HB2	1:n:426:TYR:CE2	2.50	0.47
1:n:590:GLN:HG2	1:o:497:ASN:ND2	2.30	0.47
1:r:475:GLY:HA2	1:s:519:ASN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:247:TRP:HD1	1:s:679:VAL:HG23	1.76	0.47
1:t:424:SER:HB2	1:t:426:TYR:CE2	2.49	0.47
1:t:434:ARG:HA	1:t:436:MET:HE3	1.96	0.47
1:t:519:ASN:HB3	1:v:475:GLY:HA2	1.96	0.47
1:u:238:ARG:HH21	1:u:240:ILE:HD11	1.79	0.47
1:v:424:SER:HB2	1:v:426:TYR:CE2	2.49	0.47
1:w:323:LYS:HE3	1:8:654:VAL:HG11	1.97	0.47
1:w:434:ARG:HA	1:w:436:MET:HE3	1.96	0.47
1:y:424:SER:HB2	1:y:426:TYR:CE2	2.49	0.47
1:7:434:ARG:HA	1:7:436:MET:HE3	1.96	0.47
1:8:238:ARG:HH21	1:8:240:ILE:HD11	1.79	0.47
1:B:238:ARG:HH21	1:B:240:ILE:HD11	1.79	0.47
1:B:654:VAL:HG11	1:C:323:LYS:HE3	1.96	0.47
1:G:590:GLN:HG2	1:I:497:ASN:ND2	2.30	0.47
1:H:497:ASN:ND2	1:Y:590:GLN:HG2	2.30	0.47
1:K:519:ASN:HB3	1:8:475:GLY:HA2	1.96	0.47
1:K:654:VAL:HG11	1:7:323:LYS:HE3	1.97	0.47
1:L:424:SER:HB2	1:L:426:TYR:CE2	2.49	0.47
1:L:434:ARG:HA	1:L:436:MET:HE3	1.96	0.47
1:M:424:SER:HB2	1:M:426:TYR:CE2	2.49	0.47
1:M:654:VAL:HG11	1:3:323:LYS:HE3	1.97	0.47
1:O:598:ASN:ND2	1:h:599:GLN:OE1	2.37	0.47
1:T:425:SER:HB2	1:T:729:THR:HG22	1.95	0.47
1:V:519:ASN:HB3	1:X:475:GLY:HA2	1.96	0.47
1:W:590:GLN:HG2	1:Y:497:ASN:ND2	2.30	0.47
1:Z:238:ARG:HH21	1:Z:240:ILE:HD11	1.79	0.47
1:Z:382:LEU:HD13	1:w:429:SER:C	2.38	0.47
1:3:497:ASN:ND2	1:j:590:GLN:HG2	2.29	0.47
1:b:424:SER:HB2	1:b:426:TYR:CE2	2.50	0.47
1:j:434:ARG:HA	1:j:436:MET:HE3	1.96	0.47
1:o:475:GLY:HA2	1:p:519:ASN:HB3	1.97	0.47
1:u:475:GLY:HA2	1:v:519:ASN:HB3	1.96	0.47
1:w:355:VAL:CG1	1:x:437:ASN:HB2	2.44	0.47
1:z:475:GLY:HA2	1:7:519:ASN:HB3	1.96	0.47
1:z:590:GLN:HG2	1:7:497:ASN:ND2	2.30	0.47
1:A:434:ARG:HA	1:A:436:MET:HE3	1.96	0.47
1:B:475:GLY:HA2	1:J:519:ASN:HB3	1.96	0.47
1:E:475:GLY:HA2	1:Q:519:ASN:HB3	1.96	0.47
1:F:247:TRP:HD1	1:F:679:VAL:HG23	1.76	0.47
1:F:497:ASN:ND2	1:Q:590:GLN:HG2	2.29	0.47
1:K:590:GLN:HG2	1:1:497:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:434:ARG:HA	1:M:436:MET:HE3	1.96	0.47
1:Q:434:ARG:HA	1:Q:436:MET:HE3	1.96	0.47
1:V:424:SER:HB2	1:V:426:TYR:CE2	2.49	0.47
1:V:434:ARG:HA	1:V:436:MET:HE3	1.96	0.47
1:V:590:GLN:HG2	1:5:497:ASN:ND2	2.29	0.47
1:Z:434:ARG:HA	1:Z:436:MET:HE3	1.96	0.47
1:2:323:LYS:HE3	1:i:654:VAL:HG11	1.97	0.47
1:3:590:GLN:HG2	1:i:497:ASN:ND2	2.30	0.47
1:f:238:ARG:HH21	1:f:240:ILE:HD11	1.79	0.47
1:g:425:SER:HB2	1:g:729:THR:HG22	1.95	0.47
1:i:475:GLY:HA2	1:j:519:ASN:HB3	1.96	0.47
1:n:654:VAL:HG11	1:s:323:LYS:HE3	1.97	0.47
1:p:434:ARG:HA	1:p:436:MET:HE3	1.96	0.47
1:r:434:ARG:HA	1:r:436:MET:HE3	1.96	0.47
1:y:497:ASN:ND2	1:7:590:GLN:HG2	2.30	0.47
1:C:404:MET:HE1	1:D:678:GLN:HG2	1.97	0.47
1:D:497:ASN:ND2	1:P:590:GLN:HG2	2.30	0.47
1:G:475:GLY:HA2	1:I:519:ASN:HB3	1.96	0.47
1:K:437:ASN:HB2	1:1:355:VAL:CG1	2.44	0.47
1:L:678:GLN:HG2	1:2:404:MET:HE1	1.97	0.47
1:M:323:LYS:HE3	1:N:654:VAL:HG11	1.97	0.47
1:O:323:LYS:HE3	1:P:654:VAL:HG11	1.97	0.47
1:T:323:LYS:HE3	1:U:654:VAL:HG11	1.96	0.47
1:T:475:GLY:HA2	1:4:519:ASN:HB3	1.97	0.47
1:X:424:SER:HB2	1:X:426:TYR:CE2	2.50	0.47
1:X:497:ASN:ND2	1:5:590:GLN:HG2	2.30	0.47
1:X:654:VAL:HG11	1:6:323:LYS:HE3	1.97	0.47
1:1:350:TYR:OH	1:1:643:PRO:O	2.25	0.47
1:6:404:MET:HE1	1:t:678:GLN:HG2	1.97	0.47
1:a:497:ASN:ND2	1:b:590:GLN:HG2	2.30	0.47
1:b:434:ARG:HA	1:b:436:MET:HE3	1.96	0.47
1:d:590:GLN:HG2	1:e:497:ASN:ND2	2.30	0.47
1:d:654:VAL:HG11	1:f:323:LYS:HE3	1.97	0.47
1:i:425:SER:HB2	1:i:729:THR:HG22	1.95	0.47
1:j:404:MET:HE1	1:z:678:GLN:HG2	1.97	0.47
1:j:424:SER:HB2	1:j:426:TYR:CE2	2.49	0.47
1:n:404:MET:HE1	1:s:678:GLN:HG2	1.97	0.47
1:q:424:SER:HB2	1:q:426:TYR:CE2	2.50	0.47
1:t:590:GLN:HG2	1:u:497:ASN:ND2	2.30	0.47
1:7:424:SER:HB2	1:7:426:TYR:CE2	2.49	0.47
1:A:678:GLN:HG2	1:E:404:MET:HE1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:404:MET:HE1	1:C:678:GLN:HG2	1.97	0.46
1:B:497:ASN:ND2	1:L:590:GLN:HG2	2.30	0.46
1:C:497:ASN:ND2	1:M:590:GLN:HG2	2.30	0.46
1:C:524:MET:SD	1:C:573:ALA:HA	2.56	0.46
1:E:424:SER:HB2	1:E:426:TYR:CE2	2.50	0.46
1:F:323:LYS:HE3	1:G:654:VAL:HG11	1.97	0.46
1:F:678:GLN:HG2	1:G:404:MET:HE1	1.97	0.46
1:M:404:MET:HE1	1:3:678:GLN:HG2	1.97	0.46
1:M:497:ASN:ND2	1:2:590:GLN:HG2	2.30	0.46
1:N:424:SER:HB2	1:N:426:TYR:CE2	2.49	0.46
1:N:475:GLY:HA2	1:P:519:ASN:HB3	1.96	0.46
1:O:238:ARG:HH21	1:O:240:ILE:HD11	1.79	0.46
1:O:475:GLY:HA2	1:g:519:ASN:HB3	1.96	0.46
1:Q:238:ARG:HH21	1:Q:240:ILE:HD11	1.79	0.46
1:Q:678:GLN:HG2	1:S:404:MET:HE1	1.97	0.46
1:U:323:LYS:HE3	1:5:654:VAL:HG11	1.97	0.46
1:U:678:GLN:HG2	1:5:404:MET:HE1	1.97	0.46
1:V:404:MET:HE1	1:W:678:GLN:HG2	1.97	0.46
1:3:654:VAL:HG11	1:m:323:LYS:HE3	1.97	0.46
1:5:678:GLN:HG2	1:b:404:MET:HE1	1.97	0.46
1:a:404:MET:HE1	1:e:678:GLN:HG2	1.97	0.46
1:a:524:MET:SD	1:a:573:ALA:HA	2.56	0.46
1:a:678:GLN:HG2	1:u:404:MET:HE1	1.97	0.46
1:g:323:LYS:HE3	1:m:654:VAL:HG11	1.96	0.46
1:i:238:ARG:HH21	1:i:240:ILE:HD11	1.79	0.46
1:i:424:SER:HB2	1:i:426:TYR:CE2	2.50	0.46
1:l:404:MET:HE1	1:r:678:GLN:HG2	1.97	0.46
1:n:475:GLY:HA2	1:o:519:ASN:HB3	1.96	0.46
1:q:475:GLY:HA2	1:r:519:ASN:HB3	1.96	0.46
1:r:590:GLN:HG2	1:s:497:ASN:ND2	2.29	0.46
1:w:497:ASN:ND2	1:x:590:GLN:HG2	2.29	0.46
1:8:434:ARG:HA	1:8:436:MET:HE3	1.96	0.46
1:A:404:MET:HE1	1:B:678:GLN:HG2	1.97	0.46
1:C:424:SER:HB2	1:C:426:TYR:CE2	2.49	0.46
1:Q:350:TYR:OH	1:Q:643:PRO:O	2.25	0.46
1:V:519:ASN:HB3	1:V:520:PRO:CD	2.39	0.46
1:X:238:ARG:HH21	1:X:240:ILE:HD11	1.79	0.46
1:X:425:SER:HB2	1:X:729:THR:HG22	1.95	0.46
1:Y:424:SER:HB2	1:Y:426:TYR:CE2	2.49	0.46
1:3:404:MET:HE1	1:m:678:GLN:HG2	1.97	0.46
1:6:590:GLN:HG2	1:b:497:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:524:MET:SD	1:b:573:ALA:HA	2.56	0.46
1:c:424:SER:HB2	1:c:426:TYR:CE2	2.49	0.46
1:g:475:GLY:HA2	1:h:519:ASN:HB3	1.96	0.46
1:p:404:MET:HE1	1:u:678:GLN:HG2	1.97	0.46
1:p:678:GLN:HG2	1:q:404:MET:HE1	1.97	0.46
1:r:350:TYR:OH	1:r:643:PRO:O	2.25	0.46
1:y:590:GLN:HG2	1:z:497:ASN:ND2	2.30	0.46
1:A:654:VAL:HG11	1:B:323:LYS:HE3	1.97	0.46
1:F:424:SER:HB2	1:F:426:TYR:CE2	2.50	0.46
1:G:678:GLN:HG2	1:W:404:MET:HE1	1.98	0.46
1:H:590:GLN:HG2	1:W:497:ASN:ND2	2.30	0.46
1:J:590:GLN:HG2	1:L:497:ASN:ND2	2.30	0.46
1:J:678:GLN:HG2	1:1:404:MET:HE1	1.97	0.46
1:K:323:LYS:HE3	1:L:654:VAL:HG11	1.96	0.46
1:M:524:MET:SD	1:M:573:ALA:HA	2.56	0.46
1:N:323:LYS:HE3	1:g:654:VAL:HG11	1.97	0.46
1:O:519:ASN:HB3	1:O:520:PRO:CD	2.39	0.46
1:O:519:ASN:HB3	1:h:475:GLY:HA2	1.96	0.46
1:T:404:MET:HE1	1:c:678:GLN:HG2	1.97	0.46
1:T:519:ASN:HB3	1:f:475:GLY:HA2	1.96	0.46
1:W:434:ARG:HA	1:W:436:MET:HE3	1.96	0.46
1:X:323:LYS:HE3	1:Y:654:VAL:HG11	1.97	0.46
1:Z:524:MET:SD	1:Z:573:ALA:HA	2.56	0.46
1:4:475:GLY:HA2	1:f:519:ASN:HB3	1.96	0.46
1:4:524:MET:SD	1:4:573:ALA:HA	2.56	0.46
1:d:524:MET:SD	1:d:573:ALA:HA	2.56	0.46
1:h:524:MET:SD	1:h:573:ALA:HA	2.56	0.46
1:l:654:VAL:HG11	1:r:323:LYS:HE3	1.96	0.46
1:n:678:GLN:HG2	1:z:404:MET:HE1	1.98	0.46
1:q:434:ARG:HA	1:q:436:MET:HE3	1.96	0.46
1:r:238:ARG:HH21	1:r:240:ILE:HD11	1.79	0.46
1:s:424:SER:HB2	1:s:426:TYR:CE2	2.50	0.46
1:v:323:LYS:HE3	1:w:654:VAL:HG11	1.97	0.46
1:v:678:GLN:HG2	1:w:404:MET:HE1	1.97	0.46
1:z:434:ARG:HA	1:z:436:MET:HE3	1.96	0.46
1:C:238:ARG:HH21	1:C:240:ILE:HD11	1.79	0.46
1:E:434:ARG:HA	1:E:436:MET:HE3	1.96	0.46
1:E:590:GLN:HG2	1:Q:497:ASN:ND2	2.30	0.46
1:H:238:ARG:HH21	1:H:240:ILE:HD11	1.79	0.46
1:J:323:LYS:HE3	1:1:654:VAL:HG11	1.97	0.46
1:M:678:GLN:HG2	1:N:404:MET:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:590:GLN:HG2	1:P:497:ASN:ND2	2.30	0.46
1:N:678:GLN:HG2	1:g:404:MET:HE1	1.98	0.46
1:O:654:VAL:HG11	1:4:323:LYS:HE3	1.97	0.46
1:P:524:MET:SD	1:P:573:ALA:HA	2.56	0.46
1:Q:323:LYS:HE3	1:S:654:VAL:HG11	1.96	0.46
1:R:497:ASN:ND2	1:U:590:GLN:HG2	2.30	0.46
1:W:238:ARG:HH21	1:W:240:ILE:HD11	1.79	0.46
1:Z:424:SER:HB2	1:Z:426:TYR:CE2	2.49	0.46
1:3:424:SER:HB2	1:3:426:TYR:CE2	2.49	0.46
1:a:424:SER:HB2	1:a:426:TYR:CE2	2.49	0.46
1:f:524:MET:SD	1:f:573:ALA:HA	2.56	0.46
1:f:654:VAL:HG11	1:h:323:LYS:HE3	1.97	0.46
1:g:524:MET:SD	1:g:573:ALA:HA	2.56	0.46
1:k:424:SER:HB2	1:k:426:TYR:CE2	2.49	0.46
1:k:524:MET:SD	1:k:573:ALA:HA	2.56	0.46
1:n:247:TRP:HD1	1:n:679:VAL:HG23	1.76	0.46
1:n:497:ASN:ND2	1:p:590:GLN:HG2	2.29	0.46
1:n:598:ASN:ND2	1:p:599:GLN:OE1	2.37	0.46
1:p:654:VAL:HG11	1:u:323:LYS:HE3	1.97	0.46
1:q:590:GLN:HG2	1:r:497:ASN:ND2	2.30	0.46
1:r:247:TRP:HD1	1:r:679:VAL:HG23	1.76	0.46
1:z:238:ARG:HH21	1:z:240:ILE:HD11	1.79	0.46
1:8:524:MET:SD	1:8:573:ALA:HA	2.56	0.46
1:A:590:GLN:HG2	1:G:497:ASN:ND2	2.30	0.46
1:E:238:ARG:HH21	1:E:240:ILE:HD11	1.79	0.46
1:I:524:MET:SD	1:I:573:ALA:HA	2.56	0.46
1:O:524:MET:SD	1:O:573:ALA:HA	2.56	0.46
1:O:590:GLN:HG2	1:g:497:ASN:ND2	2.30	0.46
1:P:678:GLN:HG2	1:Q:404:MET:HE1	1.97	0.46
1:R:424:SER:HB2	1:R:426:TYR:CE2	2.49	0.46
1:R:524:MET:SD	1:R:573:ALA:HA	2.56	0.46
1:S:323:LYS:HE3	1:4:654:VAL:HG11	1.97	0.46
1:T:497:ASN:ND2	1:f:590:GLN:HG2	2.30	0.46
1:T:524:MET:SD	1:T:573:ALA:HA	2.56	0.46
1:Y:524:MET:SD	1:Y:573:ALA:HA	2.56	0.46
1:2:524:MET:SD	1:2:573:ALA:HA	2.56	0.46
1:3:519:ASN:HB3	1:j:475:GLY:HA2	1.97	0.46
1:5:424:SER:HB2	1:5:426:TYR:CE2	2.49	0.46
1:6:524:MET:SD	1:6:573:ALA:HA	2.56	0.46
1:i:323:LYS:HE3	1:7:654:VAL:HG11	1.97	0.46
1:i:434:ARG:HA	1:i:436:MET:HE3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:497:ASN:ND2	1:m:590:GLN:HG2	2.30	0.46
1:m:350:TYR:OH	1:m:643:PRO:O	2.25	0.46
1:o:524:MET:SD	1:o:573:ALA:HA	2.56	0.46
1:q:238:ARG:HH21	1:q:240:ILE:HD11	1.79	0.46
1:t:497:ASN:ND2	1:v:590:GLN:HG2	2.30	0.46
1:t:654:VAL:HG11	1:x:323:LYS:HE3	1.96	0.46
1:u:524:MET:SD	1:u:573:ALA:HA	2.56	0.46
1:y:238:ARG:HH21	1:y:240:ILE:HD11	1.79	0.46
1:7:524:MET:SD	1:7:573:ALA:HA	2.56	0.46
1:8:424:SER:HB2	1:8:426:TYR:CE2	2.49	0.46
1:B:519:ASN:HB3	1:L:475:GLY:HA2	1.96	0.46
1:M:238:ARG:HH21	1:M:240:ILE:HD11	1.79	0.46
1:V:524:MET:SD	1:V:573:ALA:HA	2.56	0.46
1:3:524:MET:SD	1:3:573:ALA:HA	2.56	0.46
1:a:238:ARG:HH21	1:a:240:ILE:HD11	1.79	0.46
1:b:238:ARG:HH21	1:b:240:ILE:HD11	1.79	0.46
1:d:678:GLN:HG2	1:r:404:MET:HE1	1.98	0.46
1:f:404:MET:HE1	1:h:678:GLN:HG2	1.97	0.46
1:h:654:VAL:HG11	1:l:323:LYS:HE3	1.97	0.46
1:i:524:MET:SD	1:i:573:ALA:HA	2.56	0.46
1:j:524:MET:SD	1:j:573:ALA:HA	2.56	0.46
1:p:238:ARG:HH21	1:p:240:ILE:HD11	1.79	0.46
1:t:475:GLY:HA2	1:u:519:ASN:HB3	1.96	0.46
1:B:524:MET:SD	1:B:573:ALA:HA	2.56	0.46
1:D:524:MET:SD	1:D:573:ALA:HA	2.56	0.46
1:O:404:MET:HE1	1:4:678:GLN:HG2	1.97	0.46
1:S:519:ASN:HB3	1:S:520:PRO:CD	2.39	0.46
1:U:350:TYR:OH	1:U:643:PRO:O	2.25	0.46
1:V:475:GLY:HA2	1:5:519:ASN:HB3	1.97	0.46
1:X:434:ARG:HA	1:X:436:MET:HE3	1.96	0.46
1:X:524:MET:SD	1:X:573:ALA:HA	2.56	0.46
1:1:524:MET:SD	1:1:573:ALA:HA	2.56	0.46
1:5:524:MET:SD	1:5:573:ALA:HA	2.56	0.46
1:e:524:MET:SD	1:e:573:ALA:HA	2.56	0.46
1:e:654:VAL:HG11	1:q:323:LYS:HE3	1.97	0.46
1:k:323:LYS:HE3	1:s:654:VAL:HG11	1.97	0.46
1:t:524:MET:SD	1:t:573:ALA:HA	2.56	0.46
1:u:590:GLN:HG2	1:v:497:ASN:ND2	2.30	0.46
1:w:524:MET:SD	1:w:573:ALA:HA	2.56	0.46
1:A:238:ARG:HH21	1:A:240:ILE:HD11	1.79	0.46
1:A:519:ASN:HB3	1:A:520:PRO:CD	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:590:GLN:HG2	1:J:497:ASN:ND2	2.30	0.46
1:D:654:VAL:HG11	1:E:323:LYS:HE3	1.97	0.46
1:F:654:VAL:HG11	1:R:323:LYS:HE3	1.97	0.46
1:L:524:MET:SD	1:L:573:ALA:HA	2.56	0.46
1:Q:247:TRP:HD1	1:Q:679:VAL:HG23	1.76	0.46
1:U:524:MET:SD	1:U:573:ALA:HA	2.56	0.46
1:Z:404:MET:HE1	1:1:678:GLN:HG2	1.97	0.46
1:4:556:ASP:OD1	1:4:557:LYS:HG2	2.16	0.46
1:l:524:MET:SD	1:l:573:ALA:HA	2.56	0.46
1:m:524:MET:SD	1:m:573:ALA:HA	2.56	0.46
1:n:524:MET:SD	1:n:573:ALA:HA	2.56	0.46
1:p:519:ASN:HB3	1:p:520:PRO:CD	2.39	0.46
1:w:678:GLN:HG2	1:8:404:MET:HE1	1.97	0.46
1:A:599:GLN:OE1	1:G:598:ASN:ND2	2.37	0.46
1:B:548:THR:HG23	1:B:553:VAL:HG11	1.98	0.46
1:H:404:MET:HE1	1:Z:678:GLN:HG2	1.98	0.46
1:H:524:MET:SD	1:H:573:ALA:HA	2.56	0.46
1:I:678:GLN:HG2	1:J:404:MET:HE1	1.97	0.46
1:K:548:THR:HG23	1:K:553:VAL:HG11	1.98	0.46
1:P:548:THR:HG23	1:P:553:VAL:HG11	1.98	0.46
1:R:519:ASN:HB3	1:U:475:GLY:HA2	1.96	0.46
1:R:590:GLN:HG2	1:S:497:ASN:ND2	2.30	0.46
1:S:524:MET:SD	1:S:573:ALA:HA	2.56	0.46
1:T:678:GLN:HG2	1:U:404:MET:HE1	1.98	0.46
1:V:281:TRP:NE1	1:V:397:LEU:HB2	2.31	0.46
1:g:678:GLN:HG2	1:m:404:MET:HE1	1.98	0.46
1:h:556:ASP:OD1	1:h:557:LYS:HG2	2.16	0.46
1:j:281:TRP:NE1	1:j:397:LEU:HB2	2.31	0.46
1:k:519:ASN:HB3	1:m:475:GLY:HA2	1.96	0.46
1:k:548:THR:HG23	1:k:553:VAL:HG11	1.98	0.46
1:o:678:GLN:HG2	1:v:404:MET:HE1	1.97	0.46
1:r:556:ASP:OD1	1:r:557:LYS:HG2	2.16	0.46
1:u:548:THR:HG23	1:u:553:VAL:HG11	1.98	0.46
1:y:404:MET:HE1	1:8:678:GLN:HG2	1.98	0.46
1:y:524:MET:SD	1:y:573:ALA:HA	2.56	0.46
1:A:548:THR:HG23	1:A:553:VAL:HG11	1.98	0.46
1:A:556:ASP:OD1	1:A:557:LYS:HG2	2.16	0.46
1:C:654:VAL:HG11	1:D:323:LYS:HE3	1.97	0.46
1:F:524:MET:SD	1:F:573:ALA:HA	2.56	0.46
1:F:556:ASP:OD1	1:F:557:LYS:HG2	2.16	0.46
1:J:431:SER:OG	1:J:433:ASP:OD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:434:ARG:HA	1:J:436:MET:HE3	1.96	0.46
1:N:548:THR:HG23	1:N:553:VAL:HG11	1.98	0.46
1:Q:524:MET:SD	1:Q:573:ALA:HA	2.56	0.46
1:Q:556:ASP:OD1	1:Q:557:LYS:HG2	2.16	0.46
1:R:548:THR:HG23	1:R:553:VAL:HG11	1.98	0.46
1:S:678:GLN:HG2	1:4:404:MET:HE1	1.97	0.46
1:T:548:THR:HG23	1:T:553:VAL:HG11	1.98	0.46
1:T:654:VAL:HG11	1:c:323:LYS:HE3	1.97	0.46
1:a:559:MET:SD	1:a:726:PRO:HD3	2.56	0.46
1:c:497:ASN:ND2	1:e:590:GLN:HG2	2.30	0.46
1:c:548:THR:HG23	1:c:553:VAL:HG11	1.98	0.46
1:d:548:THR:HG23	1:d:553:VAL:HG11	1.98	0.46
1:g:548:THR:HG23	1:g:553:VAL:HG11	1.98	0.46
1:k:590:GLN:HG2	1:l:497:ASN:ND2	2.30	0.46
1:l:519:ASN:HB3	1:l:520:PRO:CD	2.39	0.46
1:q:225:SER:HG	1:q:319:ASN:H	1.64	0.46
1:r:524:MET:SD	1:r:573:ALA:HA	2.56	0.46
1:x:247:TRP:HD1	1:x:679:VAL:HG23	1.76	0.46
1:x:548:THR:HG23	1:x:553:VAL:HG11	1.98	0.46
1:z:559:MET:SD	1:z:726:PRO:HD3	2.56	0.46
1:7:559:MET:SD	1:7:726:PRO:HD3	2.56	0.46
1:A:524:MET:SD	1:A:573:ALA:HA	2.56	0.45
1:C:559:MET:SD	1:C:726:PRO:HD3	2.56	0.45
1:D:590:GLN:HG2	1:N:497:ASN:ND2	2.30	0.45
1:F:559:MET:SD	1:F:726:PRO:HD3	2.56	0.45
1:G:524:MET:SD	1:G:573:ALA:HA	2.56	0.45
1:H:556:ASP:OD1	1:H:557:LYS:HG2	2.16	0.45
1:I:548:THR:HG23	1:I:553:VAL:HG11	1.98	0.45
1:I:559:MET:SD	1:I:726:PRO:HD3	2.56	0.45
1:K:247:TRP:HD1	1:K:679:VAL:HG23	1.76	0.45
1:K:281:TRP:NE1	1:K:397:LEU:HB2	2.31	0.45
1:K:524:MET:SD	1:K:573:ALA:HA	2.56	0.45
1:L:225:SER:HG	1:L:319:ASN:H	1.64	0.45
1:O:281:TRP:NE1	1:O:397:LEU:HB2	2.31	0.45
1:P:503:TRP:HZ3	1:P:517:LEU:HB2	1.82	0.45
1:R:281:TRP:NE1	1:R:397:LEU:HB2	2.31	0.45
1:S:225:SER:HG	1:S:319:ASN:H	1.64	0.45
1:U:556:ASP:OD1	1:U:557:LYS:HG2	2.16	0.45
1:W:559:MET:SD	1:W:726:PRO:HD3	2.56	0.45
1:Y:559:MET:SD	1:Y:726:PRO:HD3	2.56	0.45
1:Z:548:THR:HG23	1:Z:553:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:590:GLN:HG2	1:d:497:ASN:ND2	2.30	0.45
1:d:503:TRP:HZ3	1:d:517:LEU:HB2	1.82	0.45
1:e:404:MET:HE1	1:q:678:GLN:HG2	1.98	0.45
1:f:281:TRP:NE1	1:f:397:LEU:HB2	2.31	0.45
1:h:404:MET:HE1	1:l:678:GLN:HG2	1.97	0.45
1:l:225:SER:HG	1:l:319:ASN:H	1.64	0.45
1:m:556:ASP:OD1	1:m:557:LYS:HG2	2.16	0.45
1:p:524:MET:SD	1:p:573:ALA:HA	2.56	0.45
1:p:548:THR:HG23	1:p:553:VAL:HG11	1.98	0.45
1:p:556:ASP:OD1	1:p:557:LYS:HG2	2.16	0.45
1:s:524:MET:SD	1:s:573:ALA:HA	2.56	0.45
1:s:548:THR:HG23	1:s:553:VAL:HG11	1.98	0.45
1:s:556:ASP:OD1	1:s:557:LYS:HG2	2.16	0.45
1:s:559:MET:SD	1:s:726:PRO:HD3	2.56	0.45
1:t:225:SER:HG	1:t:319:ASN:H	1.64	0.45
1:x:281:TRP:NE1	1:x:397:LEU:HB2	2.31	0.45
1:x:524:MET:SD	1:x:573:ALA:HA	2.56	0.45
1:y:556:ASP:OD1	1:y:557:LYS:HG2	2.16	0.45
1:8:548:THR:HG23	1:8:553:VAL:HG11	1.98	0.45
1:B:503:TRP:HZ3	1:B:517:LEU:HB2	1.82	0.45
1:D:404:MET:HE1	1:E:678:GLN:HG2	1.98	0.45
1:D:503:TRP:HZ3	1:D:517:LEU:HB2	1.82	0.45
1:F:548:THR:HG23	1:F:553:VAL:HG11	1.98	0.45
1:G:503:TRP:HZ3	1:G:517:LEU:HB2	1.82	0.45
1:G:548:THR:HG23	1:G:553:VAL:HG11	1.98	0.45
1:J:524:MET:SD	1:J:573:ALA:HA	2.56	0.45
1:K:556:ASP:OD1	1:K:557:LYS:HG2	2.16	0.45
1:K:559:MET:SD	1:K:726:PRO:HD3	2.56	0.45
1:O:556:ASP:OD1	1:O:557:LYS:HG2	2.16	0.45
1:O:678:GLN:HG2	1:P:404:MET:HE1	1.98	0.45
1:R:404:MET:HE1	1:V:678:GLN:HG2	1.97	0.45
1:R:503:TRP:HZ3	1:R:517:LEU:HB2	1.82	0.45
1:T:281:TRP:NE1	1:T:397:LEU:HB2	2.31	0.45
1:V:503:TRP:HZ3	1:V:517:LEU:HB2	1.82	0.45
1:V:548:THR:HG23	1:V:553:VAL:HG11	1.98	0.45
1:X:559:MET:SD	1:X:726:PRO:HD3	2.56	0.45
1:Y:548:THR:HG23	1:Y:553:VAL:HG11	1.98	0.45
1:1:281:TRP:NE1	1:1:397:LEU:HB2	2.31	0.45
1:1:559:MET:SD	1:1:726:PRO:HD3	2.56	0.45
1:3:559:MET:SD	1:3:726:PRO:HD3	2.56	0.45
1:5:559:MET:SD	1:5:726:PRO:HD3	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:654:VAL:HG11	1:e:323:LYS:HE3	1.97	0.45
1:d:300:ARG:HE	1:d:300:ARG:HB2	1.62	0.45
1:d:404:MET:HE1	1:f:678:GLN:HG2	1.98	0.45
1:e:431:SER:OG	1:e:433:ASP:OD1	2.33	0.45
1:f:548:THR:HG23	1:f:553:VAL:HG11	1.98	0.45
1:f:556:ASP:OD1	1:f:557:LYS:HG2	2.16	0.45
1:g:519:ASN:HB3	1:g:520:PRO:CD	2.39	0.45
1:i:548:THR:HG23	1:i:553:VAL:HG11	1.98	0.45
1:i:559:MET:SD	1:i:726:PRO:HD3	2.56	0.45
1:j:503:TRP:HZ3	1:j:517:LEU:HB2	1.82	0.45
1:j:678:GLN:HG2	1:k:404:MET:HE1	1.97	0.45
1:k:281:TRP:NE1	1:k:397:LEU:HB2	2.31	0.45
1:k:503:TRP:HZ3	1:k:517:LEU:HB2	1.82	0.45
1:n:323:LYS:HE3	1:z:654:VAL:HG11	1.97	0.45
1:n:548:THR:HG23	1:n:553:VAL:HG11	1.98	0.45
1:o:548:THR:HG23	1:o:553:VAL:HG11	1.98	0.45
1:p:225:SER:HG	1:p:319:ASN:H	1.64	0.45
1:u:503:TRP:HZ3	1:u:517:LEU:HB2	1.82	0.45
1:v:434:ARG:HA	1:v:436:MET:HE3	1.96	0.45
1:v:524:MET:SD	1:v:573:ALA:HA	2.56	0.45
1:w:559:MET:SD	1:w:726:PRO:HD3	2.56	0.45
1:x:556:ASP:OD1	1:x:557:LYS:HG2	2.16	0.45
1:x:559:MET:SD	1:x:726:PRO:HD3	2.56	0.45
1:y:281:TRP:NE1	1:y:397:LEU:HB2	2.31	0.45
1:7:548:THR:HG23	1:7:553:VAL:HG11	1.98	0.45
1:A:225:SER:HG	1:A:319:ASN:H	1.64	0.45
1:C:314:ASN:HB3	1:C:682:GLU:HB3	1.99	0.45
1:E:314:ASN:HB3	1:E:682:GLU:HB3	1.99	0.45
1:F:503:TRP:HZ3	1:F:517:LEU:HB2	1.82	0.45
1:G:323:LYS:HE3	1:W:654:VAL:HG11	1.97	0.45
1:G:559:MET:SD	1:G:726:PRO:HD3	2.56	0.45
1:H:281:TRP:NE1	1:H:397:LEU:HB2	2.31	0.45
1:H:503:TRP:HZ3	1:H:517:LEU:HB2	1.82	0.45
1:K:678:GLN:HG2	1:L:404:MET:HE1	1.98	0.45
1:N:300:ARG:HE	1:N:300:ARG:HB2	1.62	0.45
1:N:524:MET:SD	1:N:573:ALA:HA	2.56	0.45
1:O:548:THR:HG23	1:O:553:VAL:HG11	1.98	0.45
1:V:630:HIS:O	1:V:632:SER:N	2.46	0.45
1:W:524:MET:SD	1:W:573:ALA:HA	2.56	0.45
1:X:503:TRP:HZ3	1:X:517:LEU:HB2	1.82	0.45
1:X:548:THR:HG23	1:X:553:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:678:GLN:HG2	1:x:404:MET:HE1	1.97	0.45
1:Z:350:TYR:OH	1:Z:643:PRO:O	2.25	0.45
1:Z:559:MET:SD	1:Z:726:PRO:HD3	2.56	0.45
1:2:503:TRP:HZ3	1:2:517:LEU:HB2	1.82	0.45
1:2:678:GLN:HG2	1:i:404:MET:HE1	1.97	0.45
1:5:314:ASN:HB3	1:5:682:GLU:HB3	1.99	0.45
1:c:524:MET:SD	1:c:573:ALA:HA	2.56	0.45
1:e:300:ARG:HE	1:e:300:ARG:HB2	1.62	0.45
1:e:503:TRP:HZ3	1:e:517:LEU:HB2	1.82	0.45
1:g:281:TRP:NE1	1:g:397:LEU:HB2	2.31	0.45
1:h:314:ASN:HB3	1:h:682:GLU:HB3	1.99	0.45
1:j:548:THR:HG23	1:j:553:VAL:HG11	1.98	0.45
1:n:503:TRP:HZ3	1:n:517:LEU:HB2	1.82	0.45
1:n:559:MET:SD	1:n:726:PRO:HD3	2.56	0.45
1:o:559:MET:SD	1:o:726:PRO:HD3	2.56	0.45
1:q:314:ASN:HB3	1:q:682:GLU:HB3	1.99	0.45
1:q:599:GLN:OE1	1:r:598:ASN:ND2	2.37	0.45
1:s:503:TRP:HZ3	1:s:517:LEU:HB2	1.82	0.45
1:t:281:TRP:NE1	1:t:397:LEU:HB2	2.31	0.45
1:t:404:MET:HE1	1:x:678:GLN:HG2	1.98	0.45
1:w:281:TRP:NE1	1:w:397:LEU:HB2	2.31	0.45
1:A:281:TRP:NE1	1:A:397:LEU:HB2	2.31	0.45
1:B:281:TRP:NE1	1:B:397:LEU:HB2	2.31	0.45
1:E:281:TRP:NE1	1:E:397:LEU:HB2	2.31	0.45
1:K:404:MET:HE1	1:7:678:GLN:HG2	1.98	0.45
1:L:281:TRP:NE1	1:L:397:LEU:HB2	2.31	0.45
1:M:350:TYR:OH	1:M:643:PRO:O	2.25	0.45
1:N:559:MET:SD	1:N:726:PRO:HD3	2.56	0.45
1:P:281:TRP:NE1	1:P:397:LEU:HB2	2.31	0.45
1:Q:281:TRP:NE1	1:Q:397:LEU:HB2	2.31	0.45
1:T:350:TYR:OH	1:T:643:PRO:O	2.25	0.45
1:T:503:TRP:HZ3	1:T:517:LEU:HB2	1.82	0.45
1:X:404:MET:HE1	1:6:678:GLN:HG2	1.97	0.45
1:1:556:ASP:OD1	1:1:557:LYS:HG2	2.16	0.45
1:2:556:ASP:OD1	1:2:557:LYS:HG2	2.16	0.45
1:3:314:ASN:HB3	1:3:682:GLU:HB3	1.99	0.45
1:4:314:ASN:HB3	1:4:682:GLU:HB3	1.99	0.45
1:6:503:TRP:HZ3	1:6:517:LEU:HB2	1.82	0.45
1:a:314:ASN:HB3	1:a:682:GLU:HB3	1.99	0.45
1:c:281:TRP:NE1	1:c:397:LEU:HB2	2.31	0.45
1:c:559:MET:SD	1:c:726:PRO:HD3	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:559:MET:SD	1:d:726:PRO:HD3	2.56	0.45
1:d:630:HIS:O	1:d:632:SER:N	2.46	0.45
1:i:503:TRP:HZ3	1:i:517:LEU:HB2	1.82	0.45
1:k:678:GLN:HG2	1:s:404:MET:HE1	1.97	0.45
1:u:281:TRP:NE1	1:u:397:LEU:HB2	2.31	0.45
1:v:548:THR:HG23	1:v:553:VAL:HG11	1.98	0.45
1:y:503:TRP:HZ3	1:y:517:LEU:HB2	1.82	0.45
1:z:350:TYR:OH	1:z:643:PRO:O	2.25	0.45
1:z:524:MET:SD	1:z:573:ALA:HA	2.56	0.45
1:7:350:TYR:OH	1:7:643:PRO:O	2.25	0.45
1:8:350:TYR:OH	1:8:643:PRO:O	2.25	0.45
1:B:556:ASP:OD1	1:B:557:LYS:HG2	2.16	0.45
1:C:556:ASP:OD1	1:C:557:LYS:HG2	2.16	0.45
1:D:431:SER:OG	1:D:433:ASP:OD1	2.34	0.45
1:F:404:MET:HE1	1:R:678:GLN:HG2	1.97	0.45
1:F:427:ALA:O	1:F:733:THR:HA	2.17	0.45
1:H:314:ASN:HB3	1:H:682:GLU:HB3	1.99	0.45
1:I:503:TRP:HZ3	1:I:517:LEU:HB2	1.82	0.45
1:J:314:ASN:HB3	1:J:682:GLU:HB3	1.99	0.45
1:J:548:THR:HG23	1:J:553:VAL:HG11	1.98	0.45
1:K:503:TRP:HZ3	1:K:517:LEU:HB2	1.82	0.45
1:L:314:ASN:HB3	1:L:682:GLU:HB3	1.99	0.45
1:L:556:ASP:OD1	1:L:557:LYS:HG2	2.16	0.45
1:N:281:TRP:NE1	1:N:397:LEU:HB2	2.31	0.45
1:P:559:MET:SD	1:P:726:PRO:HD3	2.56	0.45
1:T:519:ASN:HB3	1:T:520:PRO:CD	2.39	0.45
1:V:314:ASN:HB3	1:V:682:GLU:HB3	1.99	0.45
1:Y:350:TYR:OH	1:Y:643:PRO:O	2.25	0.45
1:2:281:TRP:NE1	1:2:397:LEU:HB2	2.31	0.45
1:4:503:TRP:HZ3	1:4:517:LEU:HB2	1.82	0.45
1:5:503:TRP:HZ3	1:5:517:LEU:HB2	1.82	0.45
1:6:556:ASP:OD1	1:6:557:LYS:HG2	2.16	0.45
1:a:350:TYR:OH	1:a:643:PRO:O	2.25	0.45
1:b:548:THR:HG23	1:b:553:VAL:HG11	1.98	0.45
1:d:281:TRP:NE1	1:d:397:LEU:HB2	2.31	0.45
1:l:281:TRP:NE1	1:l:397:LEU:HB2	2.31	0.45
1:l:427:ALA:O	1:l:733:THR:HA	2.17	0.45
1:o:503:TRP:HZ3	1:o:517:LEU:HB2	1.82	0.45
1:p:323:LYS:HE3	1:q:654:VAL:HG11	1.97	0.45
1:q:281:TRP:NE1	1:q:397:LEU:HB2	2.31	0.45
1:q:559:MET:SD	1:q:726:PRO:HD3	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:281:TRP:NE1	1:r:397:LEU:HB2	2.31	0.45
1:s:427:ALA:O	1:s:733:THR:HA	2.17	0.45
1:u:556:ASP:OD1	1:u:557:LYS:HG2	2.16	0.45
1:w:556:ASP:OD1	1:w:557:LYS:HG2	2.16	0.45
1:y:314:ASN:HB3	1:y:682:GLU:HB3	1.99	0.45
1:z:281:TRP:NE1	1:z:397:LEU:HB2	2.31	0.45
1:8:559:MET:SD	1:8:726:PRO:HD3	2.56	0.45
1:A:323:LYS:HE3	1:E:654:VAL:HG11	1.97	0.45
1:C:475:GLY:HA2	1:2:519:ASN:HB3	1.97	0.45
1:E:524:MET:SD	1:E:573:ALA:HA	2.56	0.45
1:G:314:ASN:HB3	1:G:682:GLU:HB3	1.99	0.45
1:H:678:GLN:HG2	1:I:404:MET:HE1	1.97	0.45
1:M:548:THR:HG23	1:M:553:VAL:HG11	1.98	0.45
1:N:427:ALA:O	1:N:733:THR:HA	2.17	0.45
1:P:556:ASP:OD1	1:P:557:LYS:HG2	2.16	0.45
1:Q:427:ALA:O	1:Q:733:THR:HA	2.17	0.45
1:Q:559:MET:SD	1:Q:726:PRO:HD3	2.56	0.45
1:R:559:MET:SD	1:R:726:PRO:HD3	2.56	0.45
1:S:427:ALA:O	1:S:733:THR:HA	2.17	0.45
1:S:548:THR:HG23	1:S:553:VAL:HG11	1.98	0.45
1:S:559:MET:SD	1:S:726:PRO:HD3	2.56	0.45
1:W:281:TRP:NE1	1:W:397:LEU:HB2	2.31	0.45
1:W:300:ARG:HE	1:W:300:ARG:HB2	1.62	0.45
1:Y:556:ASP:OD1	1:Y:557:LYS:HG2	2.16	0.45
1:3:503:TRP:HZ3	1:3:517:LEU:HB2	1.82	0.45
1:6:281:TRP:NE1	1:6:397:LEU:HB2	2.31	0.45
1:c:427:ALA:O	1:c:733:THR:HA	2.17	0.45
1:e:350:TYR:OH	1:e:643:PRO:O	2.25	0.45
1:g:350:TYR:OH	1:g:643:PRO:O	2.25	0.45
1:g:503:TRP:HZ3	1:g:517:LEU:HB2	1.82	0.45
1:h:503:TRP:HZ3	1:h:517:LEU:HB2	1.82	0.45
1:j:314:ASN:HB3	1:j:682:GLU:HB3	1.99	0.45
1:j:630:HIS:O	1:j:632:SER:N	2.46	0.45
1:n:314:ASN:HB3	1:n:682:GLU:HB3	1.99	0.45
1:p:281:TRP:NE1	1:p:397:LEU:HB2	2.31	0.45
1:r:427:ALA:O	1:r:733:THR:HA	2.17	0.45
1:t:314:ASN:HB3	1:t:682:GLU:HB3	1.99	0.45
1:v:314:ASN:HB3	1:v:682:GLU:HB3	1.99	0.45
1:v:559:MET:SD	1:v:726:PRO:HD3	2.56	0.45
1:w:503:TRP:HZ3	1:w:517:LEU:HB2	1.82	0.45
1:x:503:TRP:HZ3	1:x:517:LEU:HB2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:427:ALA:O	1:z:733:THR:HA	2.17	0.45
1:7:556:ASP:OD1	1:7:557:LYS:HG2	2.17	0.45
1:8:281:TRP:NE1	1:8:397:LEU:HB2	2.31	0.45
1:A:427:ALA:O	1:A:733:THR:HA	2.17	0.45
1:D:314:ASN:HB3	1:D:682:GLU:HB3	1.99	0.45
1:D:559:MET:SD	1:D:726:PRO:HD3	2.56	0.45
1:E:559:MET:SD	1:E:726:PRO:HD3	2.56	0.45
1:F:281:TRP:NE1	1:F:397:LEU:HB2	2.31	0.45
1:G:225:SER:HG	1:G:319:ASN:H	1.64	0.45
1:I:281:TRP:NE1	1:I:397:LEU:HB2	2.31	0.45
1:I:427:ALA:O	1:I:733:THR:HA	2.17	0.45
1:O:559:MET:SD	1:O:726:PRO:HD3	2.56	0.45
1:P:314:ASN:HB3	1:P:682:GLU:HB3	1.99	0.45
1:Q:503:TRP:HZ3	1:Q:517:LEU:HB2	1.82	0.45
1:S:281:TRP:NE1	1:S:397:LEU:HB2	2.31	0.45
1:U:559:MET:SD	1:U:726:PRO:HD3	2.56	0.45
1:W:427:ALA:O	1:W:733:THR:HA	2.17	0.45
1:X:281:TRP:NE1	1:X:397:LEU:HB2	2.31	0.45
1:Y:427:ALA:O	1:Y:733:THR:HA	2.17	0.45
1:Z:281:TRP:NE1	1:Z:397:LEU:HB2	2.31	0.45
1:1:503:TRP:HZ3	1:1:517:LEU:HB2	1.82	0.45
1:2:427:ALA:O	1:2:733:THR:HA	2.17	0.45
1:6:427:ALA:O	1:6:733:THR:HA	2.17	0.45
1:a:503:TRP:HZ3	1:a:517:LEU:HB2	1.82	0.45
1:a:556:ASP:OD1	1:a:557:LYS:HG2	2.16	0.45
1:b:350:TYR:OH	1:b:643:PRO:O	2.25	0.45
1:d:556:ASP:OD1	1:d:557:LYS:HG2	2.16	0.45
1:e:314:ASN:HB3	1:e:682:GLU:HB3	1.99	0.45
1:f:427:ALA:O	1:f:733:THR:HA	2.17	0.45
1:f:559:MET:SD	1:f:726:PRO:HD3	2.56	0.45
1:g:556:ASP:OD1	1:g:557:LYS:HG2	2.16	0.45
1:h:427:ALA:O	1:h:733:THR:HA	2.17	0.45
1:i:678:GLN:HG2	1:7:404:MET:HE1	1.98	0.45
1:k:559:MET:SD	1:k:726:PRO:HD3	2.56	0.45
1:l:548:THR:HG23	1:l:553:VAL:HG11	1.98	0.45
1:l:559:MET:SD	1:l:726:PRO:HD3	2.56	0.45
1:o:281:TRP:NE1	1:o:397:LEU:HB2	2.31	0.45
1:o:404:MET:HE1	1:y:678:GLN:HG2	1.97	0.45
1:o:427:ALA:O	1:o:733:THR:HA	2.17	0.45
1:o:556:ASP:OD1	1:o:557:LYS:HG2	2.16	0.45
1:r:503:TRP:HZ3	1:r:517:LEU:HB2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:281:TRP:NE1	1:s:397:LEU:HB2	2.31	0.45
1:t:556:ASP:OD1	1:t:557:LYS:HG2	2.16	0.45
1:w:548:THR:HG23	1:w:553:VAL:HG11	1.98	0.45
1:w:598:ASN:ND2	1:x:599:GLN:OE1	2.37	0.45
1:8:503:TRP:HZ3	1:8:517:LEU:HB2	1.82	0.45
1:C:503:TRP:HZ3	1:C:517:LEU:HB2	1.82	0.45
1:D:281:TRP:NE1	1:D:397:LEU:HB2	2.31	0.45
1:G:427:ALA:O	1:G:733:THR:HA	2.17	0.45
1:L:559:MET:SD	1:L:726:PRO:HD3	2.56	0.45
1:M:519:ASN:HB3	1:M:520:PRO:CD	2.39	0.45
1:O:427:ALA:O	1:O:733:THR:HA	2.17	0.45
1:Q:314:ASN:HB3	1:Q:682:GLU:HB3	1.99	0.45
1:R:556:ASP:OD1	1:R:557:LYS:HG2	2.16	0.45
1:T:556:ASP:OD1	1:T:557:LYS:HG2	2.16	0.45
1:U:281:TRP:NE1	1:U:397:LEU:HB2	2.31	0.45
1:X:678:GLN:HG2	1:Y:404:MET:HE1	1.98	0.45
1:Z:503:TRP:HZ3	1:Z:517:LEU:HB2	1.82	0.45
1:1:548:THR:HG23	1:1:553:VAL:HG11	1.98	0.45
1:2:323:LYS:NZ	1:2:336:ASN:OD1	2.46	0.45
1:3:281:TRP:NE1	1:3:397:LEU:HB2	2.31	0.45
1:4:427:ALA:O	1:4:733:THR:HA	2.17	0.45
1:5:281:TRP:NE1	1:5:397:LEU:HB2	2.31	0.45
1:6:350:TYR:OH	1:6:643:PRO:O	2.25	0.45
1:6:519:ASN:HB3	1:a:475:GLY:HA2	1.97	0.45
1:6:559:MET:SD	1:6:726:PRO:HD3	2.56	0.45
1:d:314:ASN:HB3	1:d:682:GLU:HB3	1.99	0.45
1:e:559:MET:SD	1:e:726:PRO:HD3	2.56	0.45
1:f:503:TRP:HZ3	1:f:517:LEU:HB2	1.82	0.45
1:h:559:MET:SD	1:h:726:PRO:HD3	2.56	0.45
1:i:281:TRP:NE1	1:i:397:LEU:HB2	2.31	0.45
1:m:281:TRP:NE1	1:m:397:LEU:HB2	2.31	0.45
1:n:225:SER:HG	1:n:319:ASN:H	1.64	0.45
1:p:427:ALA:O	1:p:733:THR:HA	2.17	0.45
1:v:446:TYR:CD1	1:v:473:VAL:HG11	2.52	0.45
1:7:427:ALA:O	1:7:733:THR:HA	2.17	0.45
1:7:503:TRP:HZ3	1:7:517:LEU:HB2	1.82	0.45
1:8:314:ASN:HB3	1:8:682:GLU:HB3	1.99	0.45
1:A:559:MET:SD	1:A:726:PRO:HD3	2.56	0.45
1:C:350:TYR:OH	1:C:643:PRO:O	2.25	0.45
1:C:519:ASN:HB3	1:C:520:PRO:CD	2.39	0.45
1:E:556:ASP:OD1	1:E:557:LYS:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:556:ASP:OD1	1:I:557:LYS:HG2	2.16	0.45
1:J:446:TYR:CD1	1:J:473:VAL:HG11	2.52	0.45
1:J:556:ASP:OD1	1:J:557:LYS:HG2	2.16	0.45
1:J:559:MET:SD	1:J:726:PRO:HD3	2.56	0.45
1:M:314:ASN:HB3	1:M:682:GLU:HB3	1.99	0.45
1:M:503:TRP:HZ3	1:M:517:LEU:HB2	1.82	0.45
1:N:503:TRP:HZ3	1:N:517:LEU:HB2	1.82	0.45
1:O:503:TRP:HZ3	1:O:517:LEU:HB2	1.82	0.45
1:P:300:ARG:HE	1:P:300:ARG:HB2	1.62	0.45
1:S:556:ASP:OD1	1:S:557:LYS:HG2	2.16	0.45
1:U:503:TRP:HZ3	1:U:517:LEU:HB2	1.82	0.45
1:V:427:ALA:O	1:V:733:THR:HA	2.17	0.45
1:W:350:TYR:OH	1:W:643:PRO:O	2.25	0.45
1:W:446:TYR:CD1	1:W:473:VAL:HG11	2.52	0.45
1:X:225:SER:HG	1:X:319:ASN:H	1.64	0.45
1:X:598:ASN:ND2	1:5:599:GLN:OE1	2.37	0.45
1:Y:503:TRP:HZ3	1:Y:517:LEU:HB2	1.82	0.45
1:Z:314:ASN:HB3	1:Z:682:GLU:HB3	1.99	0.45
1:1:225:SER:HG	1:1:319:ASN:H	1.64	0.45
1:1:314:ASN:HB3	1:1:682:GLU:HB3	1.99	0.45
1:2:350:TYR:OH	1:2:643:PRO:O	2.25	0.45
1:2:519:ASN:HB3	1:2:520:PRO:CD	2.39	0.45
1:2:559:MET:SD	1:2:726:PRO:HD3	2.56	0.45
1:2:630:HIS:O	1:2:632:SER:N	2.46	0.45
1:3:556:ASP:OD1	1:3:557:LYS:HG2	2.16	0.45
1:4:559:MET:SD	1:4:726:PRO:HD3	2.56	0.45
1:a:427:ALA:O	1:a:733:THR:HA	2.17	0.45
1:b:225:SER:HG	1:b:319:ASN:H	1.64	0.45
1:b:519:ASN:HB3	1:b:520:PRO:CD	2.39	0.45
1:e:225:SER:HG	1:e:319:ASN:H	1.64	0.45
1:e:281:TRP:NE1	1:e:397:LEU:HB2	2.31	0.45
1:i:556:ASP:OD1	1:i:557:LYS:HG2	2.16	0.45
1:k:556:ASP:OD1	1:k:557:LYS:HG2	2.16	0.45
1:l:314:ASN:HB3	1:l:682:GLU:HB3	1.99	0.45
1:l:556:ASP:OD1	1:l:557:LYS:HG2	2.16	0.45
1:n:427:ALA:O	1:n:733:THR:HA	2.17	0.45
1:p:559:MET:SD	1:p:726:PRO:HD3	2.56	0.45
1:r:314:ASN:HB3	1:r:682:GLU:HB3	1.99	0.45
1:r:559:MET:SD	1:r:726:PRO:HD3	2.56	0.45
1:t:503:TRP:HZ3	1:t:517:LEU:HB2	1.82	0.45
1:t:559:MET:SD	1:t:726:PRO:HD3	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:427:ALA:O	1:v:733:THR:HA	2.17	0.45
1:w:314:ASN:HB3	1:w:682:GLU:HB3	1.99	0.45
1:A:503:TRP:HZ3	1:A:517:LEU:HB2	1.82	0.45
1:B:427:ALA:O	1:B:733:THR:HA	2.17	0.45
1:C:427:ALA:O	1:C:733:THR:HA	2.17	0.45
1:D:225:SER:HG	1:D:319:ASN:H	1.64	0.45
1:D:350:TYR:OH	1:D:643:PRO:O	2.25	0.45
1:F:300:ARG:HE	1:F:300:ARG:HB2	1.62	0.45
1:J:427:ALA:O	1:J:733:THR:HA	2.17	0.45
1:L:503:TRP:HZ3	1:L:517:LEU:HB2	1.82	0.45
1:L:548:THR:HG23	1:L:553:VAL:HG11	1.98	0.45
1:M:559:MET:SD	1:M:726:PRO:HD3	2.56	0.45
1:S:314:ASN:HB3	1:S:682:GLU:HB3	1.99	0.45
1:T:559:MET:SD	1:T:726:PRO:HD3	2.56	0.45
1:U:225:SER:HG	1:U:319:ASN:H	1.64	0.45
1:X:446:TYR:CD1	1:X:473:VAL:HG11	2.52	0.45
1:X:556:ASP:OD1	1:X:557:LYS:HG2	2.16	0.45
1:3:599:GLN:OE1	1:i:598:ASN:ND2	2.37	0.45
1:5:556:ASP:OD1	1:5:557:LYS:HG2	2.16	0.45
1:6:630:HIS:O	1:6:632:SER:N	2.46	0.45
1:a:225:SER:HG	1:a:319:ASN:H	1.64	0.45
1:a:281:TRP:NE1	1:a:397:LEU:HB2	2.31	0.45
1:b:314:ASN:HB3	1:b:682:GLU:HB3	1.99	0.45
1:b:503:TRP:HZ3	1:b:517:LEU:HB2	1.82	0.45
1:b:559:MET:SD	1:b:726:PRO:HD3	2.56	0.45
1:c:503:TRP:HZ3	1:c:517:LEU:HB2	1.82	0.45
1:i:446:TYR:CD1	1:i:473:VAL:HG11	2.52	0.45
1:j:427:ALA:O	1:j:733:THR:HA	2.17	0.45
1:m:559:MET:SD	1:m:726:PRO:HD3	2.56	0.45
1:q:524:MET:SD	1:q:573:ALA:HA	2.56	0.45
1:q:556:ASP:OD1	1:q:557:LYS:HG2	2.16	0.45
1:s:314:ASN:HB3	1:s:682:GLU:HB3	1.99	0.45
1:t:548:THR:HG23	1:t:553:VAL:HG11	1.98	0.45
1:u:314:ASN:HB3	1:u:682:GLU:HB3	1.99	0.45
1:u:427:ALA:O	1:u:733:THR:HA	2.17	0.45
1:v:281:TRP:NE1	1:v:397:LEU:HB2	2.31	0.45
1:v:556:ASP:OD1	1:v:557:LYS:HG2	2.16	0.45
1:z:446:TYR:CD1	1:z:473:VAL:HG11	2.52	0.45
1:A:407:THR:HG21	1:E:339:THR:HG22	2.00	0.44
1:C:281:TRP:NE1	1:C:397:LEU:HB2	2.31	0.44
1:D:427:ALA:O	1:D:733:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:314:ASN:HB3	1:F:682:GLU:HB3	1.99	0.44
1:F:446:TYR:CD1	1:F:473:VAL:HG11	2.52	0.44
1:G:281:TRP:NE1	1:G:397:LEU:HB2	2.31	0.44
1:G:556:ASP:OD1	1:G:557:LYS:HG2	2.16	0.44
1:H:559:MET:SD	1:H:726:PRO:HD3	2.56	0.44
1:J:281:TRP:NE1	1:J:397:LEU:HB2	2.31	0.44
1:K:599:GLN:OE1	1:1:598:ASN:ND2	2.37	0.44
1:S:503:TRP:HZ3	1:S:517:LEU:HB2	1.82	0.44
1:U:446:TYR:CD1	1:U:473:VAL:HG11	2.52	0.44
1:V:446:TYR:CD1	1:V:473:VAL:HG11	2.52	0.44
1:V:559:MET:SD	1:V:726:PRO:HD3	2.56	0.44
1:b:281:TRP:NE1	1:b:397:LEU:HB2	2.31	0.44
1:c:225:SER:HG	1:c:319:ASN:H	1.64	0.44
1:e:556:ASP:OD1	1:e:557:LYS:HG2	2.16	0.44
1:g:559:MET:SD	1:g:726:PRO:HD3	2.56	0.44
1:i:225:SER:HG	1:i:319:ASN:H	1.64	0.44
1:l:503:TRP:HZ3	1:l:517:LEU:HB2	1.82	0.44
1:m:427:ALA:O	1:m:733:THR:HA	2.17	0.44
1:m:446:TYR:CD1	1:m:473:VAL:HG11	2.52	0.44
1:m:503:TRP:HZ3	1:m:517:LEU:HB2	1.82	0.44
1:n:281:TRP:NE1	1:n:397:LEU:HB2	2.31	0.44
1:n:556:ASP:OD1	1:n:557:LYS:HG2	2.16	0.44
1:q:427:ALA:O	1:q:733:THR:HA	2.17	0.44
1:r:548:THR:HG23	1:r:553:VAL:HG11	1.98	0.44
1:s:446:TYR:CD1	1:s:473:VAL:HG11	2.52	0.44
1:y:559:MET:SD	1:y:726:PRO:HD3	2.56	0.44
1:z:300:ARG:HE	1:z:300:ARG:HB2	1.62	0.44
1:A:446:TYR:CD1	1:A:473:VAL:HG11	2.52	0.44
1:B:314:ASN:HB3	1:B:682:GLU:HB3	1.99	0.44
1:D:548:THR:HG23	1:D:553:VAL:HG11	1.98	0.44
1:D:556:ASP:OD1	1:D:557:LYS:HG2	2.17	0.44
1:E:427:ALA:O	1:E:733:THR:HA	2.17	0.44
1:E:503:TRP:HZ3	1:E:517:LEU:HB2	1.82	0.44
1:I:407:THR:HG21	1:J:339:THR:HG22	2.00	0.44
1:J:503:TRP:HZ3	1:J:517:LEU:HB2	1.82	0.44
1:K:427:ALA:O	1:K:733:THR:HA	2.17	0.44
1:M:281:TRP:NE1	1:M:397:LEU:HB2	2.31	0.44
1:S:599:GLN:OE1	1:U:598:ASN:ND2	2.37	0.44
1:T:314:ASN:HB3	1:T:682:GLU:HB3	1.99	0.44
1:U:427:ALA:O	1:U:733:THR:HA	2.17	0.44
1:W:484:TYR:HE2	1:W:507:SER:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:556:ASP:OD1	1:Z:557:LYS:HG2	2.16	0.44
1:4:281:TRP:NE1	1:4:397:LEU:HB2	2.31	0.44
1:a:446:TYR:CD1	1:a:473:VAL:HG11	2.52	0.44
1:a:598:ASN:ND2	1:b:599:GLN:OE1	2.37	0.44
1:h:281:TRP:NE1	1:h:397:LEU:HB2	2.31	0.44
1:j:446:TYR:CD1	1:j:473:VAL:HG11	2.52	0.44
1:l:446:TYR:CD1	1:l:473:VAL:HG11	2.52	0.44
1:m:548:THR:HG23	1:m:553:VAL:HG11	1.98	0.44
1:p:407:THR:HG21	1:q:339:THR:HG22	2.00	0.44
1:p:503:TRP:HZ3	1:p:517:LEU:HB2	1.82	0.44
1:s:350:TYR:OH	1:s:643:PRO:O	2.25	0.44
1:w:225:SER:HG	1:w:319:ASN:H	1.64	0.44
1:z:314:ASN:HB3	1:z:682:GLU:HB3	1.99	0.44
1:z:484:TYR:HE2	1:z:507:SER:HB3	1.83	0.44
1:z:556:ASP:OD1	1:z:557:LYS:HG2	2.16	0.44
1:8:427:ALA:O	1:8:733:THR:HA	2.17	0.44
1:B:559:MET:SD	1:B:726:PRO:HD3	2.56	0.44
1:C:446:TYR:CD1	1:C:473:VAL:HG11	2.52	0.44
1:C:484:TYR:HE2	1:C:507:SER:HB3	1.83	0.44
1:H:548:THR:HG23	1:H:553:VAL:HG11	1.98	0.44
1:I:484:TYR:HE2	1:I:507:SER:HB3	1.83	0.44
1:I:630:HIS:O	1:I:632:SER:N	2.46	0.44
1:L:630:HIS:O	1:L:632:SER:N	2.46	0.44
1:N:225:SER:HG	1:N:319:ASN:H	1.64	0.44
1:P:484:TYR:HE2	1:P:507:SER:HB3	1.83	0.44
1:Q:225:SER:HG	1:Q:319:ASN:H	1.64	0.44
1:Q:548:THR:HG23	1:Q:553:VAL:HG11	1.98	0.44
1:S:446:TYR:CD1	1:S:473:VAL:HG11	2.52	0.44
1:U:548:THR:HG23	1:U:553:VAL:HG11	1.98	0.44
1:W:314:ASN:HB3	1:W:682:GLU:HB3	1.99	0.44
1:W:323:LYS:NZ	1:W:336:ASN:OD1	2.46	0.44
1:W:556:ASP:OD1	1:W:557:LYS:HG2	2.16	0.44
1:Y:281:TRP:NE1	1:Y:397:LEU:HB2	2.31	0.44
1:1:446:TYR:CD1	1:1:473:VAL:HG11	2.52	0.44
1:4:225:SER:HG	1:4:319:ASN:H	1.64	0.44
1:4:484:TYR:HE2	1:4:507:SER:HB3	1.83	0.44
1:6:446:TYR:CD1	1:6:473:VAL:HG11	2.52	0.44
1:6:519:ASN:HB3	1:6:520:PRO:CD	2.39	0.44
1:a:484:TYR:HE2	1:a:507:SER:HB3	1.83	0.44
1:b:556:ASP:OD1	1:b:557:LYS:HG2	2.16	0.44
1:d:427:ALA:O	1:d:733:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:427:ALA:O	1:e:733:THR:HA	2.17	0.44
1:e:548:THR:HG23	1:e:553:VAL:HG11	1.98	0.44
1:g:427:ALA:O	1:g:733:THR:HA	2.17	0.44
1:g:446:TYR:CD1	1:g:473:VAL:HG11	2.52	0.44
1:h:225:SER:HG	1:h:319:ASN:H	1.64	0.44
1:h:484:TYR:HE2	1:h:507:SER:HB3	1.83	0.44
1:o:407:THR:HG21	1:v:339:THR:HG22	2.00	0.44
1:o:431:SER:OG	1:o:433:ASP:OD1	2.33	0.44
1:o:484:TYR:HE2	1:o:507:SER:HB3	1.83	0.44
1:p:446:TYR:CD1	1:p:473:VAL:HG11	2.52	0.44
1:q:503:TRP:HZ3	1:q:517:LEU:HB2	1.82	0.44
1:u:559:MET:SD	1:u:726:PRO:HD3	2.56	0.44
1:y:548:THR:HG23	1:y:553:VAL:HG11	1.98	0.44
1:A:484:TYR:HE2	1:A:507:SER:HB3	1.83	0.44
1:C:511:LEU:HD21	1:M:568:THR:O	2.18	0.44
1:E:548:THR:HG23	1:E:553:VAL:HG11	1.98	0.44
1:K:350:TYR:OH	1:K:643:PRO:O	2.25	0.44
1:K:511:LEU:HD21	1:8:568:THR:O	2.18	0.44
1:M:446:TYR:CD1	1:M:473:VAL:HG11	2.52	0.44
1:M:511:LEU:HD21	1:2:568:THR:O	2.18	0.44
1:N:314:ASN:HB3	1:N:682:GLU:HB3	1.99	0.44
1:N:556:ASP:OD1	1:N:557:LYS:HG2	2.16	0.44
1:P:427:ALA:O	1:P:733:THR:HA	2.17	0.44
1:R:484:TYR:HE2	1:R:507:SER:HB3	1.83	0.44
1:T:339:THR:HG22	1:c:407:THR:HG21	2.00	0.44
1:T:446:TYR:CD1	1:T:473:VAL:HG11	2.52	0.44
1:V:511:LEU:HD21	1:X:568:THR:O	2.18	0.44
1:X:511:LEU:HD21	1:5:568:THR:O	2.18	0.44
1:Z:427:ALA:O	1:Z:733:THR:HA	2.17	0.44
1:Z:484:TYR:HE2	1:Z:507:SER:HB3	1.83	0.44
1:2:446:TYR:CD1	1:2:473:VAL:HG11	2.52	0.44
1:3:568:THR:O	1:i:511:LEU:HD21	2.18	0.44
1:6:568:THR:O	1:b:511:LEU:HD21	2.18	0.44
1:a:511:LEU:HD21	1:b:568:THR:O	2.18	0.44
1:c:556:ASP:OD1	1:c:557:LYS:HG2	2.17	0.44
1:d:484:TYR:HE2	1:d:507:SER:HB3	1.83	0.44
1:f:446:TYR:CD1	1:f:473:VAL:HG11	2.52	0.44
1:g:314:ASN:HB3	1:g:682:GLU:HB3	1.99	0.44
1:j:559:MET:SD	1:j:726:PRO:HD3	2.56	0.44
1:q:548:THR:HG23	1:q:553:VAL:HG11	1.98	0.44
1:r:225:SER:HG	1:r:319:ASN:H	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:503:TRP:HZ3	1:v:517:LEU:HB2	1.82	0.44
1:w:446:TYR:CD1	1:w:473:VAL:HG11	2.52	0.44
1:x:314:ASN:HB3	1:x:682:GLU:HB3	1.99	0.44
1:x:427:ALA:O	1:x:733:THR:HA	2.17	0.44
1:8:484:TYR:HE2	1:8:507:SER:HB3	1.83	0.44
1:8:556:ASP:OD1	1:8:557:LYS:HG2	2.16	0.44
1:B:568:THR:O	1:J:511:LEU:HD21	2.18	0.44
1:E:446:TYR:CD1	1:E:473:VAL:HG11	2.52	0.44
1:E:511:LEU:HD21	1:F:568:THR:O	2.18	0.44
1:F:337:ASN:HD22	1:F:673:GLN:HE21	1.66	0.44
1:L:427:ALA:O	1:L:733:THR:HA	2.17	0.44
1:M:556:ASP:OD1	1:M:557:LYS:HG2	2.16	0.44
1:N:484:TYR:HE2	1:N:507:SER:HB3	1.83	0.44
1:O:446:TYR:CD1	1:O:473:VAL:HG11	2.52	0.44
1:O:568:THR:O	1:g:511:LEU:HD21	2.18	0.44
1:T:407:THR:HG21	1:U:339:THR:HG22	2.00	0.44
1:T:511:LEU:HD21	1:f:568:THR:O	2.18	0.44
1:V:556:ASP:OD1	1:V:557:LYS:HG2	2.16	0.44
1:X:427:ALA:O	1:X:733:THR:HA	2.17	0.44
1:Z:337:ASN:HD22	1:Z:673:GLN:HE21	1.66	0.44
1:Z:568:THR:O	1:x:511:LEU:HD21	2.18	0.44
1:2:225:SER:HG	1:2:319:ASN:H	1.64	0.44
1:5:548:THR:HG23	1:5:553:VAL:HG11	1.98	0.44
1:b:407:THR:HG21	1:c:339:THR:HG22	1.99	0.44
1:c:314:ASN:HB3	1:c:682:GLU:HB3	1.99	0.44
1:c:484:TYR:HE2	1:c:507:SER:HB3	1.83	0.44
1:f:339:THR:HG22	1:h:407:THR:HG21	2.00	0.44
1:i:314:ASN:HB3	1:i:682:GLU:HB3	1.99	0.44
1:i:568:THR:O	1:j:511:LEU:HD21	2.18	0.44
1:k:484:TYR:HE2	1:k:507:SER:HB3	1.83	0.44
1:n:350:TYR:OH	1:n:643:PRO:O	2.25	0.44
1:n:511:LEU:HD21	1:p:568:THR:O	2.18	0.44
1:p:484:TYR:HE2	1:p:507:SER:HB3	1.83	0.44
1:q:511:LEU:HD21	1:s:568:THR:O	2.18	0.44
1:s:337:ASN:HD22	1:s:673:GLN:HE21	1.66	0.44
1:t:427:ALA:O	1:t:733:THR:HA	2.17	0.44
1:u:568:THR:O	1:v:511:LEU:HD21	2.18	0.44
1:v:337:ASN:HD22	1:v:673:GLN:HE21	1.66	0.44
1:7:281:TRP:NE1	1:7:397:LEU:HB2	2.31	0.44
1:8:446:TYR:CD1	1:8:473:VAL:HG11	2.52	0.44
1:A:568:THR:O	1:G:511:LEU:HD21	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:TYR:CD1	1:B:473:VAL:HG11	2.52	0.44
1:C:598:ASN:ND2	1:M:599:GLN:OE1	2.37	0.44
1:F:339:THR:HG22	1:R:407:THR:HG21	2.00	0.44
1:F:350:TYR:OH	1:F:643:PRO:O	2.25	0.44
1:G:568:THR:O	1:I:511:LEU:HD21	2.18	0.44
1:H:427:ALA:O	1:H:733:THR:HA	2.17	0.44
1:J:337:ASN:HD22	1:J:673:GLN:HE21	1.66	0.44
1:K:314:ASN:HB3	1:K:682:GLU:HB3	1.99	0.44
1:K:484:TYR:HE2	1:K:507:SER:HB3	1.83	0.44
1:O:339:THR:HG22	1:4:407:THR:HG21	2.00	0.44
1:R:314:ASN:HB3	1:R:682:GLU:HB3	1.99	0.44
1:S:484:TYR:HE2	1:S:507:SER:HB3	1.83	0.44
1:T:427:ALA:O	1:T:733:THR:HA	2.17	0.44
1:Y:446:TYR:CD1	1:Y:473:VAL:HG11	2.52	0.44
1:Z:446:TYR:CD1	1:Z:473:VAL:HG11	2.52	0.44
1:2:337:ASN:HD22	1:2:673:GLN:HE21	1.66	0.44
1:4:300:ARG:HE	1:4:300:ARG:HB2	1.62	0.44
1:4:548:THR:HG23	1:4:553:VAL:HG11	1.98	0.44
1:5:446:TYR:CD1	1:5:473:VAL:HG11	2.52	0.44
1:b:446:TYR:CD1	1:b:473:VAL:HG11	2.52	0.44
1:e:446:TYR:CD1	1:e:473:VAL:HG11	2.52	0.44
1:f:314:ASN:HB3	1:f:682:GLU:HB3	1.99	0.44
1:g:407:THR:HG21	1:m:339:THR:HG22	2.00	0.44
1:j:556:ASP:OD1	1:j:557:LYS:HG2	2.16	0.44
1:k:407:THR:HG21	1:s:339:THR:HG22	2.00	0.44
1:l:484:TYR:HE2	1:l:507:SER:HB3	1.83	0.44
1:m:323:LYS:NZ	1:m:336:ASN:OD1	2.46	0.44
1:n:568:THR:O	1:o:511:LEU:HD21	2.18	0.44
1:o:630:HIS:O	1:o:632:SER:N	2.46	0.44
1:q:446:TYR:CD1	1:q:473:VAL:HG11	2.52	0.44
1:t:630:HIS:O	1:t:632:SER:N	2.46	0.44
1:z:323:LYS:NZ	1:z:336:ASN:OD1	2.46	0.44
1:8:337:ASN:HD22	1:8:673:GLN:HE21	1.66	0.44
1:A:314:ASN:HB3	1:A:682:GLU:HB3	1.99	0.44
1:C:225:SER:HG	1:C:319:ASN:H	1.65	0.44
1:D:446:TYR:CD1	1:D:473:VAL:HG11	2.52	0.44
1:D:511:LEU:HD21	1:P:568:THR:O	2.18	0.44
1:E:568:THR:O	1:Q:511:LEU:HD21	2.18	0.44
1:H:407:THR:HG21	1:I:339:THR:HG22	2.00	0.44
1:K:323:LYS:NZ	1:K:336:ASN:OD1	2.46	0.44
1:M:427:ALA:O	1:M:733:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:407:THR:HG21	1:g:339:THR:HG22	2.00	0.44
1:U:323:LYS:NZ	1:U:336:ASN:OD1	2.46	0.44
1:W:519:ASN:HB3	1:W:520:PRO:CD	2.39	0.44
1:X:314:ASN:HB3	1:X:682:GLU:HB3	1.99	0.44
1:1:337:ASN:HD22	1:1:673:GLN:HE21	1.66	0.44
1:3:446:TYR:CD1	1:3:473:VAL:HG11	2.52	0.44
1:3:548:THR:HG23	1:3:553:VAL:HG11	1.98	0.44
1:6:337:ASN:HD22	1:6:673:GLN:HE21	1.66	0.44
1:6:548:THR:HG23	1:6:553:VAL:HG11	1.98	0.44
1:b:427:ALA:O	1:b:733:THR:HA	2.17	0.44
1:c:446:TYR:CD1	1:c:473:VAL:HG11	2.52	0.44
1:d:568:THR:O	1:e:511:LEU:HD21	2.18	0.44
1:i:427:ALA:O	1:i:733:THR:HA	2.17	0.44
1:k:427:ALA:O	1:k:733:THR:HA	2.17	0.44
1:k:446:TYR:CD1	1:k:473:VAL:HG11	2.52	0.44
1:l:599:GLN:OE1	1:m:598:ASN:ND2	2.37	0.44
1:o:339:THR:HG22	1:y:407:THR:HG21	2.00	0.44
1:o:446:TYR:CD1	1:o:473:VAL:HG11	2.52	0.44
1:q:568:THR:O	1:r:511:LEU:HD21	2.18	0.44
1:t:568:THR:O	1:u:511:LEU:HD21	2.18	0.44
1:u:446:TYR:CD1	1:u:473:VAL:HG11	2.52	0.44
1:w:337:ASN:HD22	1:w:673:GLN:HE21	1.66	0.44
1:x:484:TYR:HE2	1:x:507:SER:HB3	1.83	0.44
1:y:427:ALA:O	1:y:733:THR:HA	2.17	0.44
1:7:446:TYR:CD1	1:7:473:VAL:HG11	2.52	0.44
1:8:431:SER:OG	1:8:433:ASP:OD1	2.33	0.44
1:B:511:LEU:HD21	1:L:568:THR:O	2.18	0.44
1:C:337:ASN:HD22	1:C:673:GLN:HE21	1.66	0.44
1:C:367:PHE:CE2	1:C:369:ALA:HB3	2.53	0.44
1:E:367:PHE:CE2	1:E:369:ALA:HB3	2.53	0.44
1:E:484:TYR:HE2	1:E:507:SER:HB3	1.83	0.44
1:G:350:TYR:OH	1:G:643:PRO:O	2.25	0.44
1:I:446:TYR:CD1	1:I:473:VAL:HG11	2.52	0.44
1:N:446:TYR:CD1	1:N:473:VAL:HG11	2.52	0.44
1:O:314:ASN:HB3	1:O:682:GLU:HB3	1.99	0.44
1:R:367:PHE:CE2	1:R:369:ALA:HB3	2.53	0.44
1:R:427:ALA:O	1:R:733:THR:HA	2.17	0.44
1:R:446:TYR:CD1	1:R:473:VAL:HG11	2.52	0.44
1:W:337:ASN:HD22	1:W:673:GLN:HE21	1.66	0.44
1:X:337:ASN:HD22	1:X:673:GLN:HE21	1.66	0.44
1:2:548:THR:HG23	1:2:553:VAL:HG11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:314:ASN:HB3	1:6:682:GLU:HB3	1.99	0.44
1:a:367:PHE:CE2	1:a:369:ALA:HB3	2.53	0.44
1:d:446:TYR:CD1	1:d:473:VAL:HG11	2.52	0.44
1:d:519:ASN:HB3	1:d:520:PRO:CD	2.39	0.44
1:h:548:THR:HG23	1:h:553:VAL:HG11	1.98	0.44
1:k:314:ASN:HB3	1:k:682:GLU:HB3	1.99	0.44
1:k:367:PHE:CE2	1:k:369:ALA:HB3	2.53	0.44
1:m:337:ASN:HD22	1:m:673:GLN:HE21	1.66	0.44
1:p:314:ASN:HB3	1:p:682:GLU:HB3	1.99	0.44
1:q:367:PHE:CE2	1:q:369:ALA:HB3	2.53	0.44
1:z:503:TRP:HZ3	1:z:517:LEU:HB2	1.82	0.44
1:8:519:ASN:HB3	1:8:520:PRO:CD	2.39	0.44
1:B:289:PHE:CE2	1:B:612:VAL:HG13	2.53	0.44
1:C:548:THR:HG23	1:C:553:VAL:HG11	1.98	0.44
1:H:367:PHE:CE2	1:H:369:ALA:HB3	2.53	0.44
1:J:484:TYR:HE2	1:J:507:SER:HB3	1.83	0.44
1:K:568:THR:O	1:1:511:LEU:HD21	2.18	0.44
1:M:339:THR:HG22	1:3:407:THR:HG21	2.00	0.44
1:M:407:THR:HG21	1:N:339:THR:HG22	2.00	0.44
1:N:367:PHE:CE2	1:N:369:ALA:HB3	2.53	0.44
1:P:367:PHE:CE2	1:P:369:ALA:HB3	2.53	0.44
1:Q:519:ASN:HB3	1:Q:520:PRO:CD	2.39	0.44
1:U:337:ASN:HD22	1:U:673:GLN:HE21	1.66	0.44
1:X:407:THR:HG21	1:Y:339:THR:HG22	2.00	0.44
1:Y:314:ASN:HB3	1:Y:682:GLU:HB3	1.99	0.44
1:Y:484:TYR:HE2	1:Y:507:SER:HB3	1.83	0.44
1:2:314:ASN:HB3	1:2:682:GLU:HB3	1.99	0.44
1:3:367:PHE:CE2	1:3:369:ALA:HB3	2.53	0.44
1:5:367:PHE:CE2	1:5:369:ALA:HB3	2.53	0.44
1:a:337:ASN:HD22	1:a:673:GLN:HE21	1.66	0.44
1:b:367:PHE:CE2	1:b:369:ALA:HB3	2.53	0.44
1:c:367:PHE:CE2	1:c:369:ALA:HB3	2.53	0.44
1:d:367:PHE:CE2	1:d:369:ALA:HB3	2.53	0.44
1:i:337:ASN:HD22	1:i:673:GLN:HE21	1.66	0.44
1:l:339:THR:HG22	1:r:407:THR:HG21	2.00	0.44
1:n:337:ASN:HD22	1:n:673:GLN:HE21	1.66	0.44
1:q:484:TYR:HE2	1:q:507:SER:HB3	1.83	0.44
1:r:519:ASN:HB3	1:r:520:PRO:CD	2.39	0.44
1:u:289:PHE:CE2	1:u:612:VAL:HG13	2.53	0.44
1:v:484:TYR:HE2	1:v:507:SER:HB3	1.83	0.44
1:w:484:TYR:HE2	1:w:507:SER:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:350:TYR:OH	1:x:643:PRO:O	2.25	0.44
1:y:367:PHE:CE2	1:y:369:ALA:HB3	2.53	0.44
1:z:337:ASN:HD22	1:z:673:GLN:HE21	1.66	0.44
1:z:548:THR:HG23	1:z:553:VAL:HG11	1.98	0.44
1:7:314:ASN:HB3	1:7:682:GLU:HB3	1.99	0.44
1:B:339:THR:HG22	1:C:407:THR:HG21	2.00	0.43
1:D:289:PHE:CE2	1:D:612:VAL:HG13	2.53	0.43
1:E:451:ILE:HG22	1:E:458:GLN:O	2.18	0.43
1:G:337:ASN:HD22	1:G:673:GLN:HE21	1.66	0.43
1:G:367:PHE:CE2	1:G:369:ALA:HB3	2.53	0.43
1:H:337:ASN:HD22	1:H:673:GLN:HE21	1.66	0.43
1:J:519:ASN:HB3	1:J:520:PRO:CD	2.39	0.43
1:L:289:PHE:CE2	1:L:612:VAL:HG13	2.53	0.43
1:L:337:ASN:HD22	1:L:673:GLN:HE21	1.66	0.43
1:L:367:PHE:CE2	1:L:369:ALA:HB3	2.53	0.43
1:M:367:PHE:CE2	1:M:369:ALA:HB3	2.53	0.43
1:O:337:ASN:HD22	1:O:673:GLN:HE21	1.66	0.43
1:O:484:TYR:HE2	1:O:507:SER:HB3	1.83	0.43
1:P:446:TYR:CD1	1:P:473:VAL:HG11	2.52	0.43
1:P:519:ASN:HB3	1:P:520:PRO:CD	2.39	0.43
1:Q:407:THR:HG21	1:S:339:THR:HG22	2.00	0.43
1:R:289:PHE:CE2	1:R:612:VAL:HG13	2.53	0.43
1:R:339:THR:HG22	1:V:407:THR:HG21	2.00	0.43
1:W:503:TRP:HZ3	1:W:517:LEU:HB2	1.82	0.43
1:W:548:THR:HG23	1:W:553:VAL:HG11	1.98	0.43
1:X:339:THR:HG22	1:6:407:THR:HG21	2.00	0.43
1:Y:289:PHE:CE2	1:Y:612:VAL:HG13	2.53	0.43
1:Z:431:SER:OG	1:Z:433:ASP:OD1	2.33	0.43
1:1:451:ILE:HG22	1:1:458:GLN:O	2.18	0.43
1:1:484:TYR:HE2	1:1:507:SER:HB3	1.83	0.43
1:5:407:THR:HG21	1:b:339:THR:HG22	2.00	0.43
1:6:225:SER:HG	1:6:319:ASN:H	1.64	0.43
1:a:407:THR:HG21	1:u:339:THR:HG22	2.00	0.43
1:g:367:PHE:CE2	1:g:369:ALA:HB3	2.53	0.43
1:i:407:THR:HG21	1:7:339:THR:HG22	2.00	0.43
1:j:407:THR:HG21	1:k:339:THR:HG22	2.00	0.43
1:k:289:PHE:CE2	1:k:612:VAL:HG13	2.53	0.43
1:m:484:TYR:HE2	1:m:507:SER:HB3	1.83	0.43
1:n:407:THR:HG21	1:z:339:THR:HG22	2.00	0.43
1:n:446:TYR:CD1	1:n:473:VAL:HG11	2.52	0.43
1:n:484:TYR:HE2	1:n:507:SER:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:451:ILE:HG22	1:p:458:GLN:O	2.18	0.43
1:t:289:PHE:CE2	1:t:612:VAL:HG13	2.53	0.43
1:t:367:PHE:CE2	1:t:369:ALA:HB3	2.53	0.43
1:w:427:ALA:O	1:w:733:THR:HA	2.17	0.43
1:w:451:ILE:HG22	1:w:458:GLN:O	2.18	0.43
1:w:511:LEU:HD21	1:x:568:THR:O	2.18	0.43
1:7:484:TYR:HE2	1:7:507:SER:HB3	1.83	0.43
1:A:339:THR:HG22	1:B:407:THR:HG21	2.00	0.43
1:A:451:ILE:HG22	1:A:458:GLN:O	2.18	0.43
1:D:367:PHE:CE2	1:D:369:ALA:HB3	2.53	0.43
1:G:407:THR:HG21	1:W:339:THR:HG22	2.00	0.43
1:G:446:TYR:CD1	1:G:473:VAL:HG11	2.52	0.43
1:G:484:TYR:HE2	1:G:507:SER:HB3	1.83	0.43
1:H:339:THR:HG22	1:Z:407:THR:HG21	2.00	0.43
1:H:511:LEU:HD21	1:Y:568:THR:O	2.18	0.43
1:I:367:PHE:CE2	1:I:369:ALA:HB3	2.53	0.43
1:J:367:PHE:CE2	1:J:369:ALA:HB3	2.53	0.43
1:K:446:TYR:CD1	1:K:473:VAL:HG11	2.52	0.43
1:L:407:THR:HG21	1:2:339:THR:HG22	2.00	0.43
1:L:484:TYR:HE2	1:L:507:SER:HB3	1.83	0.43
1:M:484:TYR:HE2	1:M:507:SER:HB3	1.83	0.43
1:T:367:PHE:CE2	1:T:369:ALA:HB3	2.53	0.43
1:U:367:PHE:CE2	1:U:369:ALA:HB3	2.53	0.43
1:W:367:PHE:CE2	1:W:369:ALA:HB3	2.53	0.43
1:W:451:ILE:HG22	1:W:458:GLN:O	2.18	0.43
1:W:568:THR:O	1:Y:511:LEU:HD21	2.18	0.43
1:Y:451:ILE:HG22	1:Y:458:GLN:O	2.18	0.43
1:Y:519:ASN:HB3	1:Y:520:PRO:CD	2.39	0.43
1:1:367:PHE:CE2	1:1:369:ALA:HB3	2.53	0.43
1:1:427:ALA:O	1:1:733:THR:HA	2.17	0.43
1:2:407:THR:HG21	1:i:339:THR:HG22	2.00	0.43
1:5:484:TYR:HE2	1:5:507:SER:HB3	1.83	0.43
1:a:548:THR:HG23	1:a:553:VAL:HG11	1.98	0.43
1:b:484:TYR:HE2	1:b:507:SER:HB3	1.83	0.43
1:e:289:PHE:CE2	1:e:612:VAL:HG13	2.54	0.43
1:j:484:TYR:HE2	1:j:507:SER:HB3	1.83	0.43
1:k:451:ILE:HG22	1:k:458:GLN:O	2.19	0.43
1:n:367:PHE:CE2	1:n:369:ALA:HB3	2.53	0.43
1:o:289:PHE:CE2	1:o:612:VAL:HG13	2.53	0.43
1:o:367:PHE:CE2	1:o:369:ALA:HB3	2.53	0.43
1:o:451:ILE:HG22	1:o:458:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:451:ILE:HG22	1:q:458:GLN:O	2.18	0.43
1:r:300:ARG:HE	1:r:300:ARG:HB2	1.62	0.43
1:r:446:TYR:CD1	1:r:473:VAL:HG11	2.52	0.43
1:t:337:ASN:HD22	1:t:673:GLN:HE21	1.66	0.43
1:t:484:TYR:HE2	1:t:507:SER:HB3	1.83	0.43
1:w:367:PHE:CE2	1:w:369:ALA:HB3	2.53	0.43
1:x:446:TYR:CD1	1:x:473:VAL:HG11	2.52	0.43
1:z:367:PHE:CE2	1:z:369:ALA:HB3	2.53	0.43
1:z:519:ASN:HB3	1:z:520:PRO:CD	2.39	0.43
1:A:367:PHE:CE2	1:A:369:ALA:HB3	2.53	0.43
1:A:511:LEU:HD21	1:I:568:THR:O	2.18	0.43
1:C:289:PHE:CE2	1:C:612:VAL:HG13	2.53	0.43
1:D:337:ASN:HD22	1:D:673:GLN:HE21	1.66	0.43
1:F:367:PHE:CE2	1:F:369:ALA:HB3	2.53	0.43
1:G:289:PHE:CE2	1:G:612:VAL:HG13	2.54	0.43
1:H:446:TYR:CD1	1:H:473:VAL:HG11	2.52	0.43
1:H:528:LYS:HG2	1:H:572:VAL:HG21	2.01	0.43
1:I:289:PHE:CE2	1:I:612:VAL:HG13	2.53	0.43
1:I:337:ASN:HD22	1:I:673:GLN:HE21	1.66	0.43
1:I:451:ILE:HG22	1:I:458:GLN:O	2.18	0.43
1:J:300:ARG:HE	1:J:300:ARG:HB2	1.62	0.43
1:K:339:THR:HG22	1:7:407:THR:HG21	2.00	0.43
1:O:511:LEU:HD21	1:h:568:THR:O	2.18	0.43
1:Q:528:LYS:HG2	1:Q:572:VAL:HG21	2.01	0.43
1:R:451:ILE:HG22	1:R:458:GLN:O	2.19	0.43
1:S:367:PHE:CE2	1:S:369:ALA:HB3	2.53	0.43
1:U:484:TYR:HE2	1:U:507:SER:HB3	1.83	0.43
1:X:350:TYR:OH	1:X:643:PRO:O	2.25	0.43
1:Y:630:HIS:O	1:Y:632:SER:N	2.46	0.43
1:Z:367:PHE:CE2	1:Z:369:ALA:HB3	2.53	0.43
1:Z:511:LEU:HD21	1:w:568:THR:O	2.18	0.43
1:Z:519:ASN:HB3	1:Z:520:PRO:CD	2.39	0.43
1:2:289:PHE:CE2	1:2:612:VAL:HG13	2.53	0.43
1:3:451:ILE:HG22	1:3:458:GLN:O	2.18	0.43
1:3:630:HIS:O	1:3:632:SER:N	2.46	0.43
1:5:451:ILE:HG22	1:5:458:GLN:O	2.18	0.43
1:5:630:HIS:O	1:5:632:SER:N	2.46	0.43
1:6:289:PHE:CE2	1:6:612:VAL:HG13	2.53	0.43
1:a:289:PHE:CE2	1:a:612:VAL:HG13	2.53	0.43
1:a:519:ASN:HB3	1:a:520:PRO:CD	2.39	0.43
1:d:339:THR:HG22	1:f:407:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:367:PHE:CE2	1:e:369:ALA:HB3	2.53	0.43
1:f:337:ASN:HD22	1:f:673:GLN:HE21	1.66	0.43
1:f:484:TYR:HE2	1:f:507:SER:HB3	1.83	0.43
1:h:300:ARG:HE	1:h:300:ARG:HB2	1.62	0.43
1:h:367:PHE:CE2	1:h:369:ALA:HB3	2.53	0.43
1:l:367:PHE:CE2	1:l:369:ALA:HB3	2.53	0.43
1:m:367:PHE:CE2	1:m:369:ALA:HB3	2.53	0.43
1:n:289:PHE:CE2	1:n:612:VAL:HG13	2.54	0.43
1:o:337:ASN:HD22	1:o:673:GLN:HE21	1.66	0.43
1:p:339:THR:HG22	1:u:407:THR:HG21	2.00	0.43
1:p:367:PHE:CE2	1:p:369:ALA:HB3	2.53	0.43
1:s:289:PHE:CE2	1:s:612:VAL:HG13	2.53	0.43
1:u:225:SER:HG	1:u:319:ASN:H	1.64	0.43
1:v:367:PHE:CE2	1:v:369:ALA:HB3	2.53	0.43
1:y:337:ASN:HD22	1:y:673:GLN:HE21	1.66	0.43
1:y:339:THR:HG22	1:8:407:THR:HG21	2.00	0.43
1:y:511:LEU:HD21	1:7:568:THR:O	2.18	0.43
1:y:528:LYS:HG2	1:y:572:VAL:HG21	2.01	0.43
1:z:451:ILE:HG22	1:z:458:GLN:O	2.18	0.43
1:z:568:THR:O	1:7:511:LEU:HD21	2.18	0.43
1:7:289:PHE:CE2	1:7:612:VAL:HG13	2.53	0.43
1:7:367:PHE:CE2	1:7:369:ALA:HB3	2.53	0.43
1:7:451:ILE:HG22	1:7:458:GLN:O	2.18	0.43
1:A:289:PHE:CE2	1:A:612:VAL:HG13	2.53	0.43
1:A:528:LYS:HG2	1:A:572:VAL:HG21	2.01	0.43
1:C:621:LYS:HB2	1:C:643:PRO:HG3	2.01	0.43
1:E:630:HIS:O	1:E:632:SER:N	2.46	0.43
1:F:289:PHE:CE2	1:F:612:VAL:HG13	2.53	0.43
1:H:568:THR:O	1:W:511:LEU:HD21	2.18	0.43
1:I:225:SER:HG	1:I:319:ASN:H	1.64	0.43
1:K:289:PHE:CE2	1:K:612:VAL:HG13	2.53	0.43
1:O:407:THR:HG21	1:P:339:THR:HG22	2.00	0.43
1:P:431:SER:OG	1:P:433:ASP:OD1	2.33	0.43
1:P:451:ILE:HG22	1:P:458:GLN:O	2.18	0.43
1:Q:446:TYR:CD1	1:Q:473:VAL:HG11	2.52	0.43
1:V:289:PHE:CE2	1:V:612:VAL:HG13	2.53	0.43
1:V:484:TYR:HE2	1:V:507:SER:HB3	1.83	0.43
1:V:568:THR:O	1:5:511:LEU:HD21	2.18	0.43
1:X:289:PHE:CE2	1:X:612:VAL:HG13	2.54	0.43
1:Y:367:PHE:CE2	1:Y:369:ALA:HB3	2.53	0.43
1:Y:407:THR:HG21	1:x:339:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:289:PHE:CE2	1:Z:612:VAL:HG13	2.53	0.43
1:1:568:THR:O	1:8:511:LEU:HD21	2.18	0.43
1:3:484:TYR:HE2	1:3:507:SER:HB3	1.83	0.43
1:4:367:PHE:CE2	1:4:369:ALA:HB3	2.53	0.43
1:4:451:ILE:HG22	1:4:458:GLN:O	2.18	0.43
1:5:427:ALA:O	1:5:733:THR:HA	2.17	0.43
1:6:339:THR:HG22	1:t:407:THR:HG21	2.00	0.43
1:a:621:LYS:HB2	1:a:643:PRO:HG3	2.01	0.43
1:d:289:PHE:CE2	1:d:612:VAL:HG13	2.53	0.43
1:e:337:ASN:HD22	1:e:673:GLN:HE21	1.66	0.43
1:f:289:PHE:CE2	1:f:612:VAL:HG13	2.53	0.43
1:g:568:THR:O	1:h:511:LEU:HD21	2.18	0.43
1:h:446:TYR:CD1	1:h:473:VAL:HG11	2.52	0.43
1:i:289:PHE:CE2	1:i:612:VAL:HG13	2.54	0.43
1:k:568:THR:O	1:l:511:LEU:HD21	2.18	0.43
1:m:314:ASN:HB3	1:m:682:GLU:HB3	1.99	0.43
1:m:451:ILE:HG22	1:m:458:GLN:O	2.19	0.43
1:o:568:THR:O	1:p:511:LEU:HD21	2.18	0.43
1:p:528:LYS:HG2	1:p:572:VAL:HG21	2.01	0.43
1:r:289:PHE:CE2	1:r:612:VAL:HG13	2.53	0.43
1:s:367:PHE:CE2	1:s:369:ALA:HB3	2.53	0.43
1:t:511:LEU:HD21	1:v:568:THR:O	2.18	0.43
1:v:451:ILE:HG22	1:v:458:GLN:O	2.18	0.43
1:x:289:PHE:CE2	1:x:612:VAL:HG13	2.53	0.43
1:7:519:ASN:HB3	1:7:520:PRO:CD	2.39	0.43
1:7:630:HIS:O	1:7:632:SER:N	2.46	0.43
1:8:367:PHE:CE2	1:8:369:ALA:HB3	2.53	0.43
1:D:484:TYR:HE2	1:D:507:SER:HB3	1.83	0.43
1:F:451:ILE:HG22	1:F:458:GLN:O	2.18	0.43
1:J:451:ILE:HG22	1:J:458:GLN:O	2.18	0.43
1:M:289:PHE:CE2	1:M:612:VAL:HG13	2.54	0.43
1:M:418:GLU:OE2	1:M:641:LYS:N	2.52	0.43
1:O:289:PHE:CE2	1:O:612:VAL:HG13	2.53	0.43
1:P:289:PHE:CE2	1:P:612:VAL:HG13	2.53	0.43
1:P:337:ASN:HD22	1:P:673:GLN:HE21	1.66	0.43
1:Q:289:PHE:CE2	1:Q:612:VAL:HG13	2.53	0.43
1:Q:300:ARG:HE	1:Q:300:ARG:HB2	1.62	0.43
1:Q:367:PHE:CE2	1:Q:369:ALA:HB3	2.53	0.43
1:Q:621:LYS:HB2	1:Q:643:PRO:HG3	2.01	0.43
1:R:568:THR:O	1:S:511:LEU:HD21	2.18	0.43
1:T:337:ASN:HD22	1:T:673:GLN:HE21	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:568:THR:O	1:4:511:LEU:HD21	2.18	0.43
1:U:314:ASN:HB3	1:U:682:GLU:HB3	1.99	0.43
1:U:451:ILE:HG22	1:U:458:GLN:O	2.19	0.43
1:V:367:PHE:CE2	1:V:369:ALA:HB3	2.53	0.43
1:Z:339:THR:HG22	1:1:407:THR:HG21	2.00	0.43
1:Z:451:ILE:HG22	1:Z:458:GLN:O	2.19	0.43
1:3:427:ALA:O	1:3:733:THR:HA	2.17	0.43
1:3:511:LEU:HD21	1:j:568:THR:O	2.18	0.43
1:4:446:TYR:CD1	1:4:473:VAL:HG11	2.52	0.43
1:4:528:LYS:HG2	1:4:572:VAL:HG21	2.01	0.43
1:6:511:LEU:HD21	1:a:568:THR:O	2.18	0.43
1:c:451:ILE:HG22	1:c:458:GLN:O	2.19	0.43
1:d:451:ILE:HG22	1:d:458:GLN:O	2.19	0.43
1:e:484:TYR:HE2	1:e:507:SER:HB3	1.83	0.43
1:f:418:GLU:OE2	1:f:641:LYS:N	2.52	0.43
1:g:337:ASN:HD22	1:g:673:GLN:HE21	1.66	0.43
1:h:451:ILE:HG22	1:h:458:GLN:O	2.18	0.43
1:h:528:LYS:HG2	1:h:572:VAL:HG21	2.01	0.43
1:j:289:PHE:CE2	1:j:612:VAL:HG13	2.53	0.43
1:j:528:LYS:HG2	1:j:572:VAL:HG21	2.01	0.43
1:p:289:PHE:CE2	1:p:612:VAL:HG13	2.53	0.43
1:r:528:LYS:HG2	1:r:572:VAL:HG21	2.01	0.43
1:r:621:LYS:HB2	1:r:643:PRO:HG3	2.01	0.43
1:s:451:ILE:HG22	1:s:458:GLN:O	2.18	0.43
1:t:528:LYS:HG2	1:t:572:VAL:HG21	2.01	0.43
1:y:446:TYR:CD1	1:y:473:VAL:HG11	2.52	0.43
1:8:289:PHE:CE2	1:8:612:VAL:HG13	2.53	0.43
1:A:337:ASN:HD22	1:A:673:GLN:HE21	1.66	0.43
1:B:621:LYS:HB2	1:B:643:PRO:HG3	2.01	0.43
1:C:568:THR:O	1:2:511:LEU:HD21	2.18	0.43
1:D:451:ILE:HG22	1:D:458:GLN:O	2.18	0.43
1:F:323:LYS:NZ	1:F:336:ASN:OD1	2.46	0.43
1:G:247:TRP:HD1	1:G:679:VAL:HG23	1.76	0.43
1:H:289:PHE:CE2	1:H:612:VAL:HG13	2.53	0.43
1:I:314:ASN:HB3	1:I:682:GLU:HB3	1.99	0.43
1:J:568:THR:O	1:L:511:LEU:HD21	2.18	0.43
1:L:451:ILE:HG22	1:L:458:GLN:O	2.19	0.43
1:L:528:LYS:HG2	1:L:572:VAL:HG21	2.01	0.43
1:N:451:ILE:HG22	1:N:458:GLN:O	2.19	0.43
1:O:296:ARG:HG3	1:O:300:ARG:HH11	1.84	0.43
1:O:418:GLU:OE2	1:O:641:LYS:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:323:LYS:NZ	1:Q:336:ASN:OD1	2.46	0.43
1:V:528:LYS:HG2	1:V:572:VAL:HG21	2.01	0.43
1:Y:296:ARG:HG3	1:Y:300:ARG:HH11	1.84	0.43
1:4:568:THR:O	1:f:511:LEU:HD21	2.18	0.43
1:b:289:PHE:CE2	1:b:612:VAL:HG13	2.54	0.43
1:b:451:ILE:HG22	1:b:458:GLN:O	2.19	0.43
1:h:289:PHE:CE2	1:h:612:VAL:HG13	2.54	0.43
1:h:418:GLU:OE2	1:h:641:LYS:N	2.52	0.43
1:k:621:LYS:HB2	1:k:643:PRO:HG3	2.01	0.43
1:o:225:SER:HG	1:o:319:ASN:H	1.64	0.43
1:q:630:HIS:O	1:q:632:SER:N	2.46	0.43
1:r:367:PHE:CE2	1:r:369:ALA:HB3	2.53	0.43
1:r:451:ILE:HG22	1:r:458:GLN:O	2.18	0.43
1:r:568:THR:O	1:s:511:LEU:HD21	2.18	0.43
1:t:446:TYR:CD1	1:t:473:VAL:HG11	2.52	0.43
1:t:451:ILE:HG22	1:t:458:GLN:O	2.19	0.43
1:u:451:ILE:HG22	1:u:458:GLN:O	2.19	0.43
1:u:621:LYS:HB2	1:u:643:PRO:HG3	2.01	0.43
1:v:407:THR:HG21	1:w:339:THR:HG22	2.00	0.43
1:v:519:ASN:HB3	1:v:520:PRO:CD	2.39	0.43
1:y:289:PHE:CE2	1:y:612:VAL:HG13	2.53	0.43
1:y:296:ARG:HG3	1:y:300:ARG:HH11	1.84	0.43
1:y:568:THR:O	1:z:511:LEU:HD21	2.18	0.43
1:7:296:ARG:HG3	1:7:300:ARG:HH11	1.84	0.43
1:8:451:ILE:HG22	1:8:458:GLN:O	2.19	0.43
1:B:451:ILE:HG22	1:B:458:GLN:O	2.19	0.43
1:C:528:LYS:HG2	1:C:572:VAL:HG21	2.01	0.43
1:F:511:LEU:HD21	1:Q:568:THR:O	2.18	0.43
1:G:323:LYS:NZ	1:G:336:ASN:OD1	2.45	0.43
1:H:484:TYR:HE2	1:H:507:SER:HB3	1.83	0.43
1:J:407:THR:HG21	1:1:339:THR:HG22	2.00	0.43
1:M:451:ILE:HG22	1:M:458:GLN:O	2.19	0.43
1:P:418:GLU:OE2	1:P:641:LYS:N	2.52	0.43
1:Q:418:GLU:OE2	1:Q:641:LYS:N	2.52	0.43
1:Q:451:ILE:HG22	1:Q:458:GLN:O	2.18	0.43
1:R:621:LYS:HB2	1:R:643:PRO:HG3	2.01	0.43
1:V:418:GLU:OE2	1:V:641:LYS:N	2.52	0.43
1:V:621:LYS:HB2	1:V:643:PRO:HG3	2.01	0.43
1:W:528:LYS:HG2	1:W:572:VAL:HG21	2.01	0.43
1:X:367:PHE:HA	1:X:368:PRO:HD3	1.92	0.43
1:X:451:ILE:HG22	1:X:458:GLN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:484:TYR:HE2	1:2:507:SER:HB3	1.83	0.43
1:4:289:PHE:CE2	1:4:612:VAL:HG13	2.54	0.43
1:4:418:GLU:OE2	1:4:641:LYS:N	2.52	0.43
1:a:528:LYS:HG2	1:a:572:VAL:HG21	2.01	0.43
1:b:337:ASN:HD22	1:b:673:GLN:HE21	1.66	0.43
1:b:418:GLU:OE2	1:b:641:LYS:N	2.52	0.43
1:d:337:ASN:HD22	1:d:673:GLN:HE21	1.66	0.43
1:d:418:GLU:OE2	1:d:641:LYS:N	2.52	0.43
1:d:431:SER:OG	1:d:433:ASP:OD1	2.33	0.43
1:e:418:GLU:OE2	1:e:641:LYS:N	2.52	0.43
1:f:296:ARG:HG3	1:f:300:ARG:HH11	1.84	0.43
1:i:300:ARG:HE	1:i:300:ARG:HB2	1.62	0.43
1:j:367:PHE:CE2	1:j:369:ALA:HB3	2.53	0.43
1:j:621:LYS:HB2	1:j:643:PRO:HG3	2.01	0.43
1:o:314:ASN:HB3	1:o:682:GLU:HB3	1.99	0.43
1:p:337:ASN:HD22	1:p:673:GLN:HE21	1.66	0.43
1:p:350:TYR:OH	1:p:643:PRO:O	2.25	0.43
1:u:528:LYS:HG2	1:u:572:VAL:HG21	2.01	0.43
1:B:225:SER:HG	1:B:319:ASN:H	1.64	0.43
1:B:484:TYR:HE2	1:B:507:SER:HB3	1.83	0.43
1:B:528:LYS:HG2	1:B:572:VAL:HG21	2.01	0.43
1:D:418:GLU:OE2	1:D:641:LYS:N	2.52	0.43
1:E:519:ASN:HB3	1:E:520:PRO:CD	2.39	0.43
1:H:296:ARG:HG3	1:H:300:ARG:HH11	1.84	0.43
1:J:289:PHE:CE2	1:J:612:VAL:HG13	2.53	0.43
1:K:337:ASN:HD22	1:K:673:GLN:HE21	1.66	0.43
1:L:446:TYR:CD1	1:L:473:VAL:HG11	2.52	0.43
1:M:337:ASN:HD22	1:M:673:GLN:HE21	1.66	0.43
1:N:568:THR:O	1:P:511:LEU:HD21	2.18	0.43
1:O:367:PHE:CE2	1:O:369:ALA:HB3	2.53	0.43
1:P:621:LYS:HB2	1:P:643:PRO:HG3	2.01	0.43
1:T:289:PHE:CE2	1:T:612:VAL:HG13	2.53	0.43
1:V:323:LYS:NZ	1:V:336:ASN:OD1	2.46	0.43
1:1:289:PHE:CE2	1:1:612:VAL:HG13	2.54	0.43
1:1:418:GLU:OE2	1:1:641:LYS:N	2.52	0.43
1:1:528:LYS:HG2	1:1:572:VAL:HG21	2.01	0.43
1:4:519:ASN:HB3	1:4:520:PRO:CD	2.39	0.43
1:c:511:LEU:HD21	1:e:568:THR:O	2.17	0.43
1:i:350:TYR:OH	1:i:643:PRO:O	2.25	0.43
1:i:451:ILE:HG22	1:i:458:GLN:O	2.19	0.43
1:j:418:GLU:OE2	1:j:641:LYS:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:451:ILE:HG22	1:j:458:GLN:O	2.18	0.43
1:n:528:LYS:HG2	1:n:572:VAL:HG21	2.01	0.43
1:r:323:LYS:NZ	1:r:336:ASN:OD1	2.46	0.43
1:r:418:GLU:OE2	1:r:641:LYS:N	2.52	0.43
1:r:484:TYR:HE2	1:r:507:SER:HB3	1.83	0.43
1:s:323:LYS:NZ	1:s:336:ASN:OD1	2.46	0.43
1:s:418:GLU:OE2	1:s:641:LYS:N	2.52	0.43
1:u:418:GLU:OE2	1:u:641:LYS:N	2.52	0.43
1:w:418:GLU:OE2	1:w:641:LYS:N	2.52	0.43
1:w:528:LYS:HG2	1:w:572:VAL:HG21	2.01	0.43
1:y:484:TYR:HE2	1:y:507:SER:HB3	1.83	0.43
1:z:289:PHE:CE2	1:z:612:VAL:HG13	2.53	0.43
1:B:367:PHE:CE2	1:B:369:ALA:HB3	2.53	0.43
1:B:418:GLU:OE2	1:B:641:LYS:N	2.52	0.43
1:C:451:ILE:HG22	1:C:458:GLN:O	2.18	0.43
1:D:630:HIS:O	1:D:632:SER:N	2.46	0.43
1:F:418:GLU:OE2	1:F:641:LYS:N	2.52	0.43
1:G:528:LYS:HG2	1:G:572:VAL:HG21	2.01	0.43
1:I:418:GLU:OE2	1:I:641:LYS:N	2.52	0.43
1:J:621:LYS:HB2	1:J:643:PRO:HG3	2.01	0.43
1:K:528:LYS:HG2	1:K:572:VAL:HG21	2.01	0.43
1:L:519:ASN:HB3	1:L:520:PRO:CD	2.39	0.43
1:P:484:TYR:OH	1:P:508:SER:O	2.37	0.43
1:R:296:ARG:HG3	1:R:300:ARG:HH11	1.84	0.43
1:R:337:ASN:HD22	1:R:673:GLN:HE21	1.66	0.43
1:S:484:TYR:OH	1:S:508:SER:O	2.37	0.43
1:T:451:ILE:HG22	1:T:458:GLN:O	2.19	0.43
1:T:528:LYS:HG2	1:T:572:VAL:HG21	2.01	0.43
1:V:451:ILE:HG22	1:V:458:GLN:O	2.19	0.43
1:W:289:PHE:CE2	1:W:612:VAL:HG13	2.53	0.43
1:W:418:GLU:OE2	1:W:641:LYS:N	2.52	0.43
1:X:418:GLU:OE2	1:X:641:LYS:N	2.52	0.43
1:Y:337:ASN:HD22	1:Y:673:GLN:HE21	1.66	0.43
1:2:451:ILE:HG22	1:2:458:GLN:O	2.18	0.43
1:5:418:GLU:OE2	1:5:641:LYS:N	2.52	0.43
1:6:451:ILE:HG22	1:6:458:GLN:O	2.18	0.43
1:6:484:TYR:HE2	1:6:507:SER:HB3	1.83	0.43
1:b:717:THR:HA	1:c:259:GLN:HB3	2.01	0.43
1:c:418:GLU:OE2	1:c:641:LYS:N	2.52	0.43
1:d:621:LYS:HB2	1:d:643:PRO:HG3	2.01	0.43
1:e:451:ILE:HG22	1:e:458:GLN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:290:HIS:CG	1:f:366:PRO:HB3	2.54	0.43
1:f:367:PHE:CE2	1:f:369:ALA:HB3	2.53	0.43
1:g:451:ILE:HG22	1:g:458:GLN:O	2.19	0.43
1:g:528:LYS:HG2	1:g:572:VAL:HG21	2.01	0.43
1:i:367:PHE:HA	1:i:368:PRO:HD3	1.92	0.43
1:i:418:GLU:OE2	1:i:641:LYS:N	2.52	0.43
1:k:296:ARG:HG3	1:k:300:ARG:HH11	1.84	0.43
1:l:418:GLU:OE2	1:l:641:LYS:N	2.52	0.43
1:l:484:TYR:OH	1:l:508:SER:O	2.37	0.43
1:n:296:ARG:HG3	1:n:300:ARG:HH11	1.84	0.43
1:o:290:HIS:CG	1:o:366:PRO:HB3	2.54	0.43
1:v:289:PHE:CE2	1:v:612:VAL:HG13	2.53	0.43
1:v:300:ARG:HE	1:v:300:ARG:HB2	1.62	0.43
1:v:621:LYS:HB2	1:v:643:PRO:HG3	2.01	0.43
1:w:289:PHE:CE2	1:w:612:VAL:HG13	2.54	0.43
1:x:528:LYS:HG2	1:x:572:VAL:HG21	2.01	0.43
1:z:418:GLU:OE2	1:z:641:LYS:N	2.52	0.43
1:A:367:PHE:HA	1:A:368:PRO:HD3	1.92	0.43
1:A:621:LYS:HB2	1:A:643:PRO:HG3	2.01	0.43
1:C:418:GLU:OE2	1:C:641:LYS:N	2.52	0.43
1:E:290:HIS:CG	1:E:366:PRO:HB3	2.54	0.43
1:E:484:TYR:OH	1:E:508:SER:O	2.37	0.43
1:F:407:THR:HG21	1:G:339:THR:HG22	2.00	0.43
1:G:296:ARG:HG3	1:G:300:ARG:HH11	1.84	0.43
1:I:290:HIS:CG	1:I:366:PRO:HB3	2.54	0.43
1:J:296:ARG:HG3	1:J:300:ARG:HH11	1.84	0.43
1:K:290:HIS:CG	1:K:366:PRO:HB3	2.54	0.43
1:K:451:ILE:HG22	1:K:458:GLN:O	2.19	0.43
1:L:484:TYR:OH	1:L:508:SER:O	2.37	0.43
1:M:225:SER:HG	1:M:319:ASN:H	1.64	0.43
1:N:290:HIS:CG	1:N:366:PRO:HB3	2.54	0.43
1:N:418:GLU:OE2	1:N:641:LYS:N	2.52	0.43
1:O:290:HIS:CG	1:O:366:PRO:HB3	2.54	0.43
1:Q:484:TYR:HE2	1:Q:507:SER:HB3	1.83	0.43
1:S:418:GLU:OE2	1:S:641:LYS:N	2.52	0.43
1:S:451:ILE:HG22	1:S:458:GLN:O	2.18	0.43
1:S:568:THR:O	1:U:511:LEU:HD21	2.18	0.43
1:U:289:PHE:CE2	1:U:612:VAL:HG13	2.53	0.43
1:U:700:GLN:H	1:V:702:THR:HG22	1.84	0.43
1:V:337:ASN:HD22	1:V:673:GLN:HE21	1.66	0.43
1:W:296:ARG:HG3	1:W:300:ARG:HH11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:296:ARG:HG3	1:Z:300:ARG:HH11	1.84	0.43
1:Z:418:GLU:OE2	1:Z:641:LYS:N	2.52	0.43
1:3:418:GLU:OE2	1:3:641:LYS:N	2.52	0.43
1:3:431:SER:OG	1:3:433:ASP:OD1	2.33	0.43
1:5:337:ASN:HD22	1:5:673:GLN:HE21	1.66	0.43
1:a:418:GLU:OE2	1:a:641:LYS:N	2.52	0.43
1:a:451:ILE:HG22	1:a:458:GLN:O	2.18	0.43
1:b:621:LYS:HB2	1:b:643:PRO:HG3	2.01	0.43
1:c:290:HIS:CG	1:c:366:PRO:HB3	2.54	0.43
1:c:296:ARG:HG3	1:c:300:ARG:HH11	1.84	0.43
1:d:225:SER:HG	1:d:319:ASN:H	1.64	0.43
1:g:289:PHE:CE2	1:g:612:VAL:HG13	2.53	0.43
1:j:323:LYS:NZ	1:j:336:ASN:OD1	2.46	0.43
1:j:702:THR:HG22	1:m:700:GLN:H	1.84	0.43
1:k:337:ASN:HD22	1:k:673:GLN:HE21	1.66	0.43
1:l:289:PHE:CE2	1:l:612:VAL:HG13	2.53	0.43
1:l:451:ILE:HG22	1:l:458:GLN:O	2.18	0.43
1:n:431:SER:OG	1:n:433:ASP:OD1	2.33	0.43
1:o:418:GLU:OE2	1:o:641:LYS:N	2.52	0.43
1:q:290:HIS:CG	1:q:366:PRO:HB3	2.54	0.43
1:q:350:TYR:OH	1:q:643:PRO:O	2.24	0.43
1:q:484:TYR:OH	1:q:508:SER:O	2.37	0.43
1:t:484:TYR:OH	1:t:508:SER:O	2.37	0.43
1:t:519:ASN:HB3	1:t:520:PRO:CD	2.39	0.43
1:u:367:PHE:CE2	1:u:369:ALA:HB3	2.53	0.43
1:v:296:ARG:HG3	1:v:300:ARG:HH11	1.84	0.43
1:w:290:HIS:CG	1:w:366:PRO:HB3	2.54	0.43
1:x:290:HIS:CG	1:x:366:PRO:HB3	2.54	0.43
1:x:337:ASN:HD22	1:x:673:GLN:HE21	1.66	0.43
1:x:451:ILE:HG22	1:x:458:GLN:O	2.19	0.43
1:z:296:ARG:HG3	1:z:300:ARG:HH11	1.84	0.43
1:z:528:LYS:HG2	1:z:572:VAL:HG21	2.01	0.43
1:7:300:ARG:HE	1:7:300:ARG:HB2	1.62	0.43
1:7:337:ASN:HD22	1:7:673:GLN:HE21	1.66	0.43
1:A:296:ARG:HG3	1:A:300:ARG:HH11	1.84	0.42
1:A:700:GLN:H	1:F:702:THR:HG22	1.84	0.42
1:B:290:HIS:CG	1:B:366:PRO:HB3	2.54	0.42
1:C:700:GLN:H	1:L:702:THR:HG22	1.84	0.42
1:D:527:HIS:HE1	1:D:562:ASN:HD22	1.67	0.42
1:D:528:LYS:HG2	1:D:572:VAL:HG21	2.01	0.42
1:D:621:LYS:HB2	1:D:643:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:TYR:OH	1:E:643:PRO:O	2.24	0.42
1:E:418:GLU:OE2	1:E:641:LYS:N	2.52	0.42
1:E:702:THR:HG22	1:P:700:GLN:H	1.85	0.42
1:G:290:HIS:CG	1:G:366:PRO:HB3	2.54	0.42
1:G:451:ILE:HG22	1:G:458:GLN:O	2.18	0.42
1:G:702:THR:HG22	1:H:700:GLN:H	1.85	0.42
1:H:418:GLU:OE2	1:H:641:LYS:N	2.52	0.42
1:L:296:ARG:HG3	1:L:300:ARG:HH11	1.84	0.42
1:M:621:LYS:HB2	1:M:643:PRO:HG3	2.01	0.42
1:N:296:ARG:HG3	1:N:300:ARG:HH11	1.84	0.42
1:P:296:ARG:HG3	1:P:300:ARG:HH11	1.84	0.42
1:R:511:LEU:HD21	1:U:568:THR:O	2.18	0.42
1:S:289:PHE:CE2	1:S:612:VAL:HG13	2.53	0.42
1:S:527:HIS:HE1	1:S:562:ASN:HD22	1.67	0.42
1:T:418:GLU:OE2	1:T:641:LYS:N	2.52	0.42
1:V:296:ARG:HG3	1:V:300:ARG:HH11	1.84	0.42
1:Y:290:HIS:CG	1:Y:366:PRO:HB3	2.54	0.42
1:1:290:HIS:CG	1:1:366:PRO:HB3	2.54	0.42
1:1:296:ARG:HG3	1:1:300:ARG:HH11	1.84	0.42
1:1:484:TYR:OH	1:1:508:SER:O	2.37	0.42
1:1:621:LYS:HB2	1:1:643:PRO:HG3	2.01	0.42
1:2:418:GLU:OE2	1:2:641:LYS:N	2.52	0.42
1:3:337:ASN:HD22	1:3:673:GLN:HE21	1.66	0.42
1:4:296:ARG:HG3	1:4:300:ARG:HH11	1.84	0.42
1:5:431:SER:OG	1:5:433:ASP:OD1	2.33	0.42
1:c:568:THR:O	1:d:511:LEU:HD21	2.18	0.42
1:d:528:LYS:HG2	1:d:572:VAL:HG21	2.01	0.42
1:d:700:GLN:H	1:q:702:THR:HG22	1.85	0.42
1:e:528:LYS:HG2	1:e:572:VAL:HG21	2.01	0.42
1:e:621:LYS:HB2	1:e:643:PRO:HG3	2.01	0.42
1:e:630:HIS:O	1:e:632:SER:N	2.46	0.42
1:g:418:GLU:OE2	1:g:641:LYS:N	2.52	0.42
1:i:484:TYR:HE2	1:i:507:SER:HB3	1.83	0.42
1:j:296:ARG:HG3	1:j:300:ARG:HH11	1.84	0.42
1:j:337:ASN:HD22	1:j:673:GLN:HE21	1.66	0.42
1:l:527:HIS:HE1	1:l:562:ASN:HD22	1.67	0.42
1:m:289:PHE:CE2	1:m:612:VAL:HG13	2.53	0.42
1:n:290:HIS:CG	1:n:366:PRO:HB3	2.54	0.42
1:n:323:LYS:NZ	1:n:336:ASN:OD1	2.45	0.42
1:n:702:THR:HG22	1:y:700:GLN:H	1.85	0.42
1:p:296:ARG:HG3	1:p:300:ARG:HH11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:621:LYS:HB2	1:p:643:PRO:HG3	2.01	0.42
1:p:700:GLN:H	1:s:702:THR:HG22	1.84	0.42
1:q:418:GLU:OE2	1:q:641:LYS:N	2.52	0.42
1:q:519:ASN:HB3	1:q:520:PRO:CD	2.39	0.42
1:t:418:GLU:OE2	1:t:641:LYS:N	2.52	0.42
1:u:484:TYR:HE2	1:u:507:SER:HB3	1.83	0.42
1:w:296:ARG:HG3	1:w:300:ARG:HH11	1.84	0.42
1:w:407:THR:HG21	1:8:339:THR:HG22	2.00	0.42
1:w:484:TYR:OH	1:w:508:SER:O	2.37	0.42
1:w:621:LYS:HB2	1:w:643:PRO:HG3	2.01	0.42
1:y:323:LYS:NZ	1:y:336:ASN:OD1	2.46	0.42
1:y:418:GLU:OE2	1:y:641:LYS:N	2.52	0.42
1:7:290:HIS:CG	1:7:366:PRO:HB3	2.54	0.42
1:7:418:GLU:OE2	1:7:641:LYS:N	2.52	0.42
1:8:296:ARG:HG3	1:8:300:ARG:HH11	1.84	0.42
1:8:418:GLU:OE2	1:8:641:LYS:N	2.52	0.42
1:A:350:TYR:OH	1:A:643:PRO:O	2.25	0.42
1:A:702:THR:HG22	1:F:700:GLN:H	1.84	0.42
1:D:568:THR:O	1:N:511:LEU:HD21	2.18	0.42
1:F:290:HIS:CG	1:F:366:PRO:HB3	2.54	0.42
1:F:528:LYS:HG2	1:F:572:VAL:HG21	2.01	0.42
1:G:418:GLU:OE2	1:G:641:LYS:N	2.52	0.42
1:G:484:TYR:OH	1:G:508:SER:O	2.37	0.42
1:H:290:HIS:CG	1:H:366:PRO:HB3	2.54	0.42
1:I:296:ARG:HG3	1:I:300:ARG:HH11	1.84	0.42
1:K:367:PHE:CE2	1:K:369:ALA:HB3	2.53	0.42
1:L:418:GLU:OE2	1:L:641:LYS:N	2.52	0.42
1:M:527:HIS:HE1	1:M:562:ASN:HD22	1.67	0.42
1:P:528:LYS:HG2	1:P:572:VAL:HG21	2.01	0.42
1:U:528:LYS:HG2	1:U:572:VAL:HG21	2.01	0.42
1:V:290:HIS:CG	1:V:366:PRO:HB3	2.54	0.42
1:W:290:HIS:CG	1:W:366:PRO:HB3	2.54	0.42
1:W:527:HIS:HE1	1:W:562:ASN:HD22	1.67	0.42
1:Y:300:ARG:HE	1:Y:300:ARG:HB2	1.62	0.42
1:Y:418:GLU:OE2	1:Y:641:LYS:N	2.52	0.42
1:4:337:ASN:HD22	1:4:673:GLN:HE21	1.66	0.42
1:5:296:ARG:HG3	1:5:300:ARG:HH11	1.84	0.42
1:6:418:GLU:OE2	1:6:641:LYS:N	2.52	0.42
1:a:431:SER:OG	1:a:433:ASP:OD1	2.33	0.42
1:a:700:GLN:H	1:t:702:THR:HG22	1.84	0.42
1:b:300:ARG:HE	1:b:300:ARG:HB2	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:296:ARG:HG3	1:d:300:ARG:HH11	1.84	0.42
1:e:527:HIS:HE1	1:e:562:ASN:HD22	1.67	0.42
1:f:225:SER:HG	1:f:319:ASN:H	1.64	0.42
1:g:484:TYR:HE2	1:g:507:SER:HB3	1.83	0.42
1:h:296:ARG:HG3	1:h:300:ARG:HH11	1.84	0.42
1:h:519:ASN:HB3	1:h:520:PRO:CD	2.39	0.42
1:i:367:PHE:CE2	1:i:369:ALA:HB3	2.53	0.42
1:k:350:TYR:OH	1:k:643:PRO:O	2.25	0.42
1:l:568:THR:O	1:m:511:LEU:HD21	2.18	0.42
1:m:418:GLU:OE2	1:m:641:LYS:N	2.52	0.42
1:m:528:LYS:HG2	1:m:572:VAL:HG21	2.01	0.42
1:n:339:THR:HG22	1:s:407:THR:HG21	2.00	0.42
1:n:451:ILE:HG22	1:n:458:GLN:O	2.18	0.42
1:n:484:TYR:OH	1:n:508:SER:O	2.37	0.42
1:o:519:ASN:HB3	1:o:520:PRO:CD	2.39	0.42
1:p:418:GLU:OE2	1:p:641:LYS:N	2.52	0.42
1:q:289:PHE:CE2	1:q:612:VAL:HG13	2.54	0.42
1:s:528:LYS:HG2	1:s:572:VAL:HG21	2.01	0.42
1:t:296:ARG:HG3	1:t:300:ARG:HH11	1.84	0.42
1:u:290:HIS:CG	1:u:366:PRO:HB3	2.54	0.42
1:v:418:GLU:OE2	1:v:641:LYS:N	2.52	0.42
1:y:290:HIS:CG	1:y:366:PRO:HB3	2.54	0.42
1:B:702:THR:HG22	1:I:700:GLN:H	1.84	0.42
1:E:289:PHE:CE2	1:E:612:VAL:HG13	2.54	0.42
1:E:337:ASN:HD22	1:E:673:GLN:HE21	1.66	0.42
1:G:431:SER:OG	1:G:433:ASP:OD1	2.33	0.42
1:I:519:ASN:HB3	1:I:520:PRO:CD	2.39	0.42
1:J:418:GLU:OE2	1:J:641:LYS:N	2.52	0.42
1:L:350:TYR:OH	1:L:643:PRO:O	2.25	0.42
1:M:528:LYS:HG2	1:M:572:VAL:HG21	2.01	0.42
1:P:407:THR:HG21	1:Q:339:THR:HG22	2.00	0.42
1:S:700:GLN:H	1:T:702:THR:HG22	1.84	0.42
1:T:484:TYR:HE2	1:T:507:SER:HB3	1.83	0.42
1:U:407:THR:HG21	1:5:339:THR:HG22	2.00	0.42
1:U:418:GLU:OE2	1:U:641:LYS:N	2.52	0.42
1:X:367:PHE:CE2	1:X:369:ALA:HB3	2.53	0.42
1:X:484:TYR:HE2	1:X:507:SER:HB3	1.83	0.42
1:2:367:PHE:CE2	1:2:369:ALA:HB3	2.53	0.42
1:3:296:ARG:HG3	1:3:300:ARG:HH11	1.84	0.42
1:5:289:PHE:CE2	1:5:612:VAL:HG13	2.53	0.42
1:5:527:HIS:HE1	1:5:562:ASN:HD22	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:527:HIS:HE1	1:b:562:ASN:HD22	1.67	0.42
1:d:407:THR:HG21	1:r:339:THR:HG22	2.00	0.42
1:f:519:ASN:HB3	1:f:520:PRO:CD	2.39	0.42
1:h:337:ASN:HD22	1:h:673:GLN:HE21	1.66	0.42
1:j:259:GLN:HB3	1:z:717:THR:HA	2.02	0.42
1:j:290:HIS:CG	1:j:366:PRO:HB3	2.54	0.42
1:j:339:THR:HG22	1:z:407:THR:HG21	2.00	0.42
1:k:511:LEU:HD21	1:m:568:THR:O	2.18	0.42
1:o:296:ARG:HG3	1:o:300:ARG:HH11	1.84	0.42
1:o:700:GLN:H	1:u:702:THR:HG22	1.84	0.42
1:p:431:SER:OG	1:p:433:ASP:OD1	2.33	0.42
1:p:702:THR:HG22	1:s:700:GLN:H	1.84	0.42
1:q:528:LYS:HG2	1:q:572:VAL:HG21	2.01	0.42
1:r:296:ARG:HG3	1:r:300:ARG:HH11	1.84	0.42
1:s:290:HIS:CG	1:s:366:PRO:HB3	2.54	0.42
1:s:484:TYR:HE2	1:s:507:SER:HB3	1.83	0.42
1:x:367:PHE:CE2	1:x:369:ALA:HB3	2.53	0.42
1:x:621:LYS:HB2	1:x:643:PRO:HG3	2.01	0.42
1:z:290:HIS:CG	1:z:366:PRO:HB3	2.54	0.42
1:z:527:HIS:HE1	1:z:562:ASN:HD22	1.67	0.42
1:A:418:GLU:OE2	1:A:641:LYS:N	2.52	0.42
1:A:527:HIS:HE1	1:A:562:ASN:HD22	1.67	0.42
1:E:700:GLN:H	1:P:702:THR:HG22	1.84	0.42
1:F:621:LYS:HB2	1:F:643:PRO:HG3	2.01	0.42
1:H:527:HIS:HD2	1:H:528:LYS:O	2.03	0.42
1:J:700:GLN:H	1:K:702:THR:HG22	1.84	0.42
1:K:527:HIS:HD2	1:K:528:LYS:O	2.03	0.42
1:K:621:LYS:HB2	1:K:643:PRO:HG3	2.01	0.42
1:L:290:HIS:CG	1:L:366:PRO:HB3	2.54	0.42
1:M:290:HIS:CG	1:M:366:PRO:HB3	2.54	0.42
1:M:296:ARG:HG3	1:M:300:ARG:HH11	1.84	0.42
1:N:289:PHE:CE2	1:N:612:VAL:HG13	2.53	0.42
1:O:527:HIS:HD2	1:O:528:LYS:O	2.03	0.42
1:Q:337:ASN:HD22	1:Q:673:GLN:HE21	1.66	0.42
1:R:290:HIS:CG	1:R:366:PRO:HB3	2.54	0.42
1:S:290:HIS:CG	1:S:366:PRO:HB3	2.54	0.42
1:S:337:ASN:HD22	1:S:673:GLN:HE21	1.66	0.42
1:S:527:HIS:HD2	1:S:528:LYS:O	2.03	0.42
1:V:259:GLN:HB3	1:W:717:THR:HA	2.02	0.42
1:W:527:HIS:HD2	1:W:528:LYS:O	2.03	0.42
1:X:290:HIS:CG	1:X:366:PRO:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:300:ARG:HE	1:X:300:ARG:HB2	1.62	0.42
1:Y:527:HIS:HD2	1:Y:528:LYS:O	2.03	0.42
1:Y:621:LYS:HB2	1:Y:643:PRO:HG3	2.01	0.42
1:1:527:HIS:HD2	1:1:528:LYS:O	2.03	0.42
1:3:289:PHE:CE2	1:3:612:VAL:HG13	2.53	0.42
1:3:339:THR:HG22	1:m:407:THR:HG21	2.00	0.42
1:3:527:HIS:HE1	1:3:562:ASN:HD22	1.67	0.42
1:6:367:PHE:CE2	1:6:369:ALA:HB3	2.53	0.42
1:a:290:HIS:CG	1:a:366:PRO:HB3	2.54	0.42
1:a:296:ARG:HG3	1:a:300:ARG:HH11	1.84	0.42
1:a:527:HIS:HE1	1:a:562:ASN:HD22	1.68	0.42
1:b:290:HIS:CG	1:b:366:PRO:HB3	2.54	0.42
1:b:528:LYS:HG2	1:b:572:VAL:HG21	2.01	0.42
1:d:702:THR:HG22	1:q:700:GLN:H	1.85	0.42
1:g:702:THR:HG22	1:l:700:GLN:H	1.84	0.42
1:j:700:GLN:H	1:m:702:THR:HG22	1.84	0.42
1:l:323:LYS:NZ	1:l:336:ASN:OD1	2.46	0.42
1:l:337:ASN:HD22	1:l:673:GLN:HE21	1.66	0.42
1:l:527:HIS:HD2	1:l:528:LYS:O	2.03	0.42
1:n:418:GLU:OE2	1:n:641:LYS:N	2.52	0.42
1:p:290:HIS:CG	1:p:366:PRO:HB3	2.54	0.42
1:q:337:ASN:HD22	1:q:673:GLN:HE21	1.66	0.42
1:s:621:LYS:HB2	1:s:643:PRO:HG3	2.01	0.42
1:v:702:THR:HG22	1:x:700:GLN:H	1.84	0.42
1:v:717:THR:HA	1:w:259:GLN:HB3	2.02	0.42
1:w:527:HIS:HD2	1:w:528:LYS:O	2.03	0.42
1:x:527:HIS:HD2	1:x:528:LYS:O	2.03	0.42
1:y:527:HIS:HD2	1:y:528:LYS:O	2.03	0.42
1:z:225:SER:HG	1:z:319:ASN:H	1.64	0.42
1:z:527:HIS:HD2	1:z:528:LYS:O	2.03	0.42
1:7:367:PHE:HA	1:7:368:PRO:HD3	1.92	0.42
1:7:527:HIS:HD2	1:7:528:LYS:O	2.03	0.42
1:A:290:HIS:CG	1:A:366:PRO:HB3	2.54	0.42
1:A:527:HIS:HD2	1:A:528:LYS:O	2.03	0.42
1:B:296:ARG:HG3	1:B:300:ARG:HH11	1.84	0.42
1:B:527:HIS:HE1	1:B:562:ASN:HD22	1.67	0.42
1:C:296:ARG:HG3	1:C:300:ARG:HH11	1.84	0.42
1:C:527:HIS:HE1	1:C:562:ASN:HD22	1.68	0.42
1:E:528:LYS:HG2	1:E:572:VAL:HG21	2.01	0.42
1:F:484:TYR:HE2	1:F:507:SER:HB3	1.83	0.42
1:H:323:LYS:NZ	1:H:336:ASN:OD1	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:702:THR:HG22	1:K:700:GLN:H	1.84	0.42
1:J:717:THR:HA	1:1:259:GLN:HB3	2.02	0.42
1:M:717:THR:HA	1:N:259:GLN:HB3	2.02	0.42
1:O:451:ILE:HG22	1:O:458:GLN:O	2.19	0.42
1:P:225:SER:HG	1:P:319:ASN:H	1.64	0.42
1:P:717:THR:HA	1:Q:259:GLN:HB3	2.02	0.42
1:Q:296:ARG:HG3	1:Q:300:ARG:HH11	1.84	0.42
1:S:281:TRP:CD1	1:S:397:LEU:HD12	2.55	0.42
1:U:630:HIS:O	1:U:632:SER:N	2.46	0.42
1:V:339:THR:HG22	1:W:407:THR:HG21	2.00	0.42
1:X:621:LYS:HB2	1:X:643:PRO:HG3	2.01	0.42
1:b:296:ARG:HG3	1:b:300:ARG:HH11	1.84	0.42
1:b:702:THR:HG22	1:e:700:GLN:H	1.85	0.42
1:c:289:PHE:CE2	1:c:612:VAL:HG13	2.53	0.42
1:d:350:TYR:OH	1:d:643:PRO:O	2.25	0.42
1:f:527:HIS:HD2	1:f:528:LYS:O	2.03	0.42
1:g:700:GLN:H	1:l:702:THR:HG22	1.84	0.42
1:i:290:HIS:CG	1:i:366:PRO:HB3	2.54	0.42
1:i:621:LYS:HB2	1:i:643:PRO:HG3	2.01	0.42
1:j:717:THR:HA	1:k:259:GLN:HB3	2.02	0.42
1:k:290:HIS:CG	1:k:366:PRO:HB3	2.54	0.42
1:k:418:GLU:OE2	1:k:641:LYS:N	2.52	0.42
1:l:281:TRP:CD1	1:l:397:LEU:HD12	2.55	0.42
1:l:290:HIS:CG	1:l:366:PRO:HB3	2.54	0.42
1:p:367:PHE:HA	1:p:368:PRO:HD3	1.92	0.42
1:p:527:HIS:HD2	1:p:528:LYS:O	2.03	0.42
1:q:621:LYS:HB2	1:q:643:PRO:HG3	2.01	0.42
1:t:290:HIS:CG	1:t:366:PRO:HB3	2.54	0.42
1:v:350:TYR:OH	1:v:643:PRO:O	2.25	0.42
1:v:700:GLN:H	1:x:702:THR:HG22	1.84	0.42
1:7:621:LYS:HB2	1:7:643:PRO:HG3	2.01	0.42
1:C:290:HIS:CG	1:C:366:PRO:HB3	2.54	0.42
1:C:527:HIS:HD2	1:C:528:LYS:O	2.03	0.42
1:C:702:THR:HG22	1:L:700:GLN:H	1.84	0.42
1:D:527:HIS:HD2	1:D:528:LYS:O	2.03	0.42
1:D:700:GLN:H	1:M:702:THR:HG22	1.85	0.42
1:E:621:LYS:HB2	1:E:643:PRO:HG3	2.01	0.42
1:F:527:HIS:HE1	1:F:562:ASN:HD22	1.67	0.42
1:K:418:GLU:OE2	1:K:641:LYS:N	2.52	0.42
1:K:527:HIS:HE1	1:K:562:ASN:HD22	1.67	0.42
1:K:606:VAL:CG1	1:1:625:THR:HG21	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:621:LYS:HB2	1:N:643:PRO:HG3	2.01	0.42
1:P:350:TYR:OH	1:P:643:PRO:O	2.25	0.42
1:Q:717:THR:HA	1:S:259:GLN:HB3	2.02	0.42
1:R:418:GLU:OE2	1:R:641:LYS:N	2.52	0.42
1:T:717:THR:HA	1:U:259:GLN:HB3	2.02	0.42
1:U:702:THR:HG22	1:V:700:GLN:H	1.84	0.42
1:Y:323:LYS:NZ	1:Y:336:ASN:OD1	2.45	0.42
1:Z:527:HIS:HE1	1:Z:562:ASN:HD22	1.67	0.42
1:2:281:TRP:CD1	1:2:397:LEU:HD12	2.55	0.42
1:3:281:TRP:CD1	1:3:397:LEU:HD12	2.55	0.42
1:4:702:THR:HG22	1:h:700:GLN:H	1.84	0.42
1:6:281:TRP:CD1	1:6:397:LEU:HD12	2.55	0.42
1:a:527:HIS:HD2	1:a:528:LYS:O	2.03	0.42
1:a:702:THR:HG22	1:t:700:GLN:H	1.84	0.42
1:b:281:TRP:CD1	1:b:397:LEU:HD12	2.55	0.42
1:c:527:HIS:HD2	1:c:528:LYS:O	2.03	0.42
1:d:717:THR:HA	1:r:259:GLN:HB3	2.02	0.42
1:f:451:ILE:HG22	1:f:458:GLN:O	2.18	0.42
1:g:290:HIS:CG	1:g:366:PRO:HB3	2.54	0.42
1:g:650:LYS:HB3	1:g:650:LYS:HE3	1.89	0.42
1:g:717:THR:HA	1:m:259:GLN:HB3	2.02	0.42
1:l:259:GLN:HB3	1:r:717:THR:HA	2.02	0.42
1:l:431:SER:OG	1:l:433:ASP:OD1	2.33	0.42
1:l:528:LYS:HG2	1:l:572:VAL:HG21	2.01	0.42
1:n:700:GLN:H	1:y:702:THR:HG22	1.85	0.42
1:p:527:HIS:HE1	1:p:562:ASN:HD22	1.67	0.42
1:r:337:ASN:HD22	1:r:673:GLN:HE21	1.66	0.42
1:s:527:HIS:HE1	1:s:562:ASN:HD22	1.67	0.42
1:t:527:HIS:HE1	1:t:562:ASN:HD22	1.67	0.42
1:u:296:ARG:HG3	1:u:300:ARG:HH11	1.84	0.42
1:w:625:THR:HG21	1:x:606:VAL:CG1	2.50	0.42
1:z:484:TYR:OH	1:z:508:SER:O	2.37	0.42
1:8:527:HIS:HE1	1:8:562:ASN:HD22	1.67	0.42
1:B:259:GLN:HB3	1:C:717:THR:HA	2.02	0.42
1:B:281:TRP:CD1	1:B:397:LEU:HD12	2.55	0.42
1:B:337:ASN:HD22	1:B:673:GLN:HE21	1.66	0.42
1:D:625:THR:HG21	1:P:606:VAL:CG1	2.50	0.42
1:E:296:ARG:HG3	1:E:300:ARG:HH11	1.84	0.42
1:F:625:THR:HG21	1:Q:606:VAL:CG1	2.50	0.42
1:G:700:GLN:H	1:H:702:THR:HG22	1.85	0.42
1:L:527:HIS:HE1	1:L:562:ASN:HD22	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:281:TRP:CD1	1:M:397:LEU:HD12	2.55	0.42
1:N:527:HIS:HD2	1:N:528:LYS:O	2.03	0.42
1:O:225:SER:HG	1:O:319:ASN:H	1.64	0.42
1:Q:290:HIS:CG	1:Q:366:PRO:HB3	2.54	0.42
1:R:259:GLN:HB3	1:V:717:THR:HA	2.02	0.42
1:S:702:THR:HG22	1:T:700:GLN:H	1.84	0.42
1:T:431:SER:OG	1:T:433:ASP:OD1	2.33	0.42
1:T:650:LYS:HB3	1:T:650:LYS:HE3	1.89	0.42
1:U:281:TRP:CD1	1:U:397:LEU:HD12	2.55	0.42
1:W:484:TYR:OH	1:W:508:SER:O	2.37	0.42
1:Z:650:LYS:HB3	1:Z:650:LYS:HE3	1.89	0.42
1:4:323:LYS:NZ	1:4:336:ASN:OD1	2.46	0.42
1:4:621:LYS:HB2	1:4:643:PRO:HG3	2.01	0.42
1:4:700:GLN:H	1:h:702:THR:HG22	1.84	0.42
1:5:281:TRP:CD1	1:5:397:LEU:HD12	2.55	0.42
1:5:528:LYS:HG2	1:5:572:VAL:HG21	2.01	0.42
1:c:621:LYS:HB2	1:c:643:PRO:HG3	2.01	0.42
1:e:527:HIS:HD2	1:e:528:LYS:O	2.03	0.42
1:g:527:HIS:HD2	1:g:528:LYS:O	2.03	0.42
1:h:339:THR:HG22	1:l:407:THR:HG21	2.00	0.42
1:i:528:LYS:HG2	1:i:572:VAL:HG21	2.01	0.42
1:m:630:HIS:O	1:m:632:SER:N	2.46	0.42
1:q:296:ARG:HG3	1:q:300:ARG:HH11	1.84	0.42
1:r:606:VAL:CG1	1:s:625:THR:HG21	2.50	0.42
1:s:484:TYR:OH	1:s:508:SER:O	2.37	0.42
1:t:527:HIS:HD2	1:t:528:LYS:O	2.03	0.42
1:u:519:ASN:HB3	1:u:520:PRO:CD	2.39	0.42
1:u:527:HIS:HE1	1:u:562:ASN:HD22	1.67	0.42
1:v:528:LYS:HG2	1:v:572:VAL:HG21	2.01	0.42
1:x:418:GLU:OE2	1:x:641:LYS:N	2.52	0.42
1:B:350:TYR:OH	1:B:643:PRO:O	2.25	0.42
1:F:296:ARG:HG3	1:F:300:ARG:HH11	1.84	0.42
1:F:484:TYR:OH	1:F:508:SER:O	2.37	0.42
1:G:281:TRP:CD1	1:G:397:LEU:HD12	2.55	0.42
1:H:717:THR:HA	1:I:259:GLN:HB3	2.02	0.42
1:I:527:HIS:HD2	1:I:528:LYS:O	2.03	0.42
1:L:527:HIS:HD2	1:L:528:LYS:O	2.03	0.42
1:M:300:ARG:HE	1:M:300:ARG:HB2	1.62	0.42
1:N:702:THR:HG22	1:O:700:GLN:H	1.85	0.42
1:N:717:THR:HA	1:g:259:GLN:HB3	2.02	0.42
1:O:621:LYS:HB2	1:O:643:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:527:HIS:HD2	1:Q:528:LYS:O	2.03	0.42
1:R:528:LYS:HG2	1:R:572:VAL:HG21	2.01	0.42
1:R:630:HIS:O	1:R:632:SER:N	2.46	0.42
1:S:407:THR:HG21	1:4:339:THR:HG22	2.00	0.42
1:S:431:SER:OG	1:S:433:ASP:OD1	2.33	0.42
1:S:528:LYS:HG2	1:S:572:VAL:HG21	2.01	0.42
1:T:290:HIS:CG	1:T:366:PRO:HB3	2.54	0.42
1:T:527:HIS:HD2	1:T:528:LYS:O	2.03	0.42
1:W:225:SER:HG	1:W:319:ASN:H	1.65	0.42
1:X:281:TRP:CD1	1:X:397:LEU:HD12	2.55	0.42
1:X:528:LYS:HG2	1:X:572:VAL:HG21	2.01	0.42
1:Z:225:SER:HG	1:Z:319:ASN:H	1.65	0.42
1:Z:621:LYS:HB2	1:Z:643:PRO:HG3	2.01	0.42
1:5:621:LYS:HB2	1:5:643:PRO:HG3	2.01	0.42
1:6:621:LYS:HB2	1:6:643:PRO:HG3	2.01	0.42
1:a:717:THR:HA	1:u:259:GLN:HB3	2.02	0.42
1:d:323:LYS:NZ	1:d:336:ASN:OD1	2.46	0.42
1:d:527:HIS:HE1	1:d:562:ASN:HD22	1.67	0.42
1:d:606:VAL:CG1	1:e:625:THR:HG21	2.50	0.42
1:f:621:LYS:HB2	1:f:643:PRO:HG3	2.01	0.42
1:h:281:TRP:CD1	1:h:397:LEU:HD12	2.55	0.42
1:h:621:LYS:HB2	1:h:643:PRO:HG3	2.01	0.42
1:l:296:ARG:HG3	1:l:300:ARG:HH11	1.84	0.42
1:m:281:TRP:CD1	1:m:397:LEU:HD12	2.55	0.42
1:n:281:TRP:CD1	1:n:397:LEU:HD12	2.55	0.42
1:o:259:GLN:HB3	1:y:717:THR:HA	2.02	0.42
1:o:527:HIS:HD2	1:o:528:LYS:O	2.03	0.42
1:p:484:TYR:OH	1:p:508:SER:O	2.37	0.42
1:q:431:SER:OG	1:q:433:ASP:OD1	2.33	0.42
1:r:281:TRP:CD1	1:r:397:LEU:HD12	2.55	0.42
1:r:290:HIS:CG	1:r:366:PRO:HB3	2.54	0.42
1:s:296:ARG:HG3	1:s:300:ARG:HH11	1.84	0.42
1:t:350:TYR:OH	1:t:643:PRO:O	2.25	0.42
1:u:281:TRP:CD1	1:u:397:LEU:HD12	2.55	0.42
1:u:337:ASN:HD22	1:u:673:GLN:HE21	1.66	0.42
1:u:527:HIS:HD2	1:u:528:LYS:O	2.03	0.42
1:8:621:LYS:HB2	1:8:643:PRO:HG3	2.01	0.42
1:A:484:TYR:OH	1:A:508:SER:O	2.37	0.42
1:B:313:LEU:HB3	1:B:415:TYR:HB3	2.02	0.42
1:B:527:HIS:HD2	1:B:528:LYS:O	2.03	0.42
1:B:606:VAL:CG1	1:J:625:THR:HG21	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:700:GLN:H	1:I:702:THR:HG22	1.84	0.42
1:D:290:HIS:CG	1:D:366:PRO:HB3	2.54	0.42
1:D:339:THR:HG22	1:E:407:THR:HG21	2.00	0.42
1:E:431:SER:OG	1:E:433:ASP:OD1	2.33	0.42
1:F:259:GLN:HB3	1:R:717:THR:HA	2.02	0.42
1:F:281:TRP:CD1	1:F:397:LEU:HD12	2.55	0.42
1:H:451:ILE:HG22	1:H:458:GLN:O	2.19	0.42
1:H:606:VAL:CG1	1:W:625:THR:HG21	2.50	0.42
1:J:350:TYR:OH	1:J:643:PRO:O	2.25	0.42
1:J:528:LYS:HG2	1:J:572:VAL:HG21	2.01	0.42
1:Q:281:TRP:CD1	1:Q:397:LEU:HD12	2.55	0.42
1:S:296:ARG:HG3	1:S:300:ARG:HH11	1.84	0.42
1:U:296:ARG:HG3	1:U:300:ARG:HH11	1.84	0.42
1:W:621:LYS:HB2	1:W:643:PRO:HG3	2.01	0.42
1:X:259:GLN:HB3	1:6:717:THR:HA	2.02	0.42
1:Y:367:PHE:HA	1:Y:368:PRO:HD3	1.92	0.42
1:Y:528:LYS:HG2	1:Y:572:VAL:HG21	2.01	0.42
1:Y:700:GLN:H	1:Z:702:THR:HG22	1.85	0.42
1:Z:528:LYS:HG2	1:Z:572:VAL:HG21	2.01	0.42
1:3:528:LYS:HG2	1:3:572:VAL:HG21	2.01	0.42
1:4:281:TRP:CD1	1:4:397:LEU:HD12	2.55	0.42
1:4:290:HIS:CG	1:4:366:PRO:HB3	2.54	0.42
1:4:630:HIS:O	1:4:632:SER:N	2.46	0.42
1:5:300:ARG:HE	1:5:300:ARG:HB2	1.62	0.42
1:b:484:TYR:OH	1:b:508:SER:O	2.37	0.42
1:e:339:THR:HG22	1:q:407:THR:HG21	2.00	0.42
1:g:300:ARG:HE	1:g:300:ARG:HB2	1.62	0.42
1:g:606:VAL:CG1	1:h:625:THR:HG21	2.50	0.42
1:i:281:TRP:CD1	1:i:397:LEU:HD12	2.55	0.42
1:k:300:ARG:HE	1:k:300:ARG:HB2	1.62	0.42
1:k:717:THR:HA	1:s:259:GLN:HB3	2.02	0.42
1:n:367:PHE:HA	1:n:368:PRO:HD3	1.92	0.42
1:n:527:HIS:HE1	1:n:562:ASN:HD22	1.67	0.42
1:r:527:HIS:HD2	1:r:528:LYS:O	2.03	0.42
1:u:313:LEU:HB3	1:u:415:TYR:HB3	2.02	0.42
1:x:527:HIS:HE1	1:x:562:ASN:HD22	1.68	0.42
1:y:606:VAL:CG1	1:z:625:THR:HG21	2.50	0.42
1:7:323:LYS:NZ	1:7:336:ASN:OD1	2.45	0.42
1:7:528:LYS:HG2	1:7:572:VAL:HG21	2.01	0.42
1:8:290:HIS:CG	1:8:366:PRO:HB3	2.54	0.42
1:A:606:VAL:CG1	1:G:625:THR:HG21	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:339:THR:HG22	1:D:407:THR:HG21	2.00	0.42
1:D:259:GLN:HB3	1:E:717:THR:HA	2.02	0.42
1:D:542:ILE:HD12	1:D:542:ILE:HG23	1.85	0.42
1:F:367:PHE:HA	1:F:368:PRO:HD3	1.92	0.42
1:G:527:HIS:HE1	1:G:562:ASN:HD22	1.67	0.42
1:H:625:THR:HG21	1:Y:606:VAL:CG1	2.50	0.42
1:K:313:LEU:HB3	1:K:415:TYR:HB3	2.02	0.42
1:M:313:LEU:HB3	1:M:415:TYR:HB3	2.02	0.42
1:M:484:TYR:OH	1:M:508:SER:O	2.37	0.42
1:P:527:HIS:HE1	1:P:562:ASN:HD22	1.67	0.42
1:Q:313:LEU:HB3	1:Q:415:TYR:HB3	2.02	0.42
1:R:625:THR:HG21	1:U:606:VAL:CG1	2.50	0.42
1:T:281:TRP:CD1	1:T:397:LEU:HD12	2.55	0.42
1:T:625:THR:HG21	1:f:606:VAL:CG1	2.50	0.42
1:V:281:TRP:CD1	1:V:397:LEU:HD12	2.55	0.42
1:V:606:VAL:CG1	1:5:625:THR:HG21	2.50	0.42
1:X:313:LEU:HB3	1:X:415:TYR:HB3	2.02	0.42
1:Y:702:THR:HG22	1:Z:700:GLN:H	1.85	0.42
1:Y:717:THR:HA	1:x:259:GLN:HB3	2.02	0.42
1:Z:606:VAL:CG1	1:x:625:THR:HG21	2.50	0.42
1:2:313:LEU:HB3	1:2:415:TYR:HB3	2.02	0.42
1:2:527:HIS:HE1	1:2:562:ASN:HD22	1.67	0.42
1:2:621:LYS:HB2	1:2:643:PRO:HG3	2.01	0.42
1:2:700:GLN:H	1:3:702:THR:HG22	1.84	0.42
1:2:717:THR:HA	1:i:259:GLN:HB3	2.02	0.42
1:3:621:LYS:HB2	1:3:643:PRO:HG3	2.01	0.42
1:3:625:THR:HG21	1:j:606:VAL:CG1	2.50	0.42
1:5:527:HIS:HD2	1:5:528:LYS:O	2.03	0.42
1:6:259:GLN:HB3	1:t:717:THR:HA	2.02	0.42
1:6:313:LEU:HB3	1:6:415:TYR:HB3	2.02	0.42
1:6:527:HIS:HE1	1:6:562:ASN:HD22	1.67	0.42
1:e:259:GLN:HB3	1:q:717:THR:HA	2.02	0.42
1:e:290:HIS:CG	1:e:366:PRO:HB3	2.54	0.42
1:f:259:GLN:HB3	1:h:717:THR:HA	2.02	0.42
1:g:296:ARG:HG3	1:g:300:ARG:HH11	1.84	0.42
1:g:431:SER:OG	1:g:433:ASP:OD1	2.33	0.42
1:h:290:HIS:CG	1:h:366:PRO:HB3	2.54	0.42
1:h:350:TYR:OH	1:h:643:PRO:O	2.25	0.42
1:i:313:LEU:HB3	1:i:415:TYR:HB3	2.02	0.42
1:k:484:TYR:OH	1:k:508:SER:O	2.37	0.42
1:k:528:LYS:HG2	1:k:572:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:296:ARG:HG3	1:m:300:ARG:HH11	1.84	0.42
1:m:313:LEU:HB3	1:m:415:TYR:HB3	2.02	0.42
1:m:484:TYR:OH	1:m:508:SER:O	2.37	0.42
1:m:621:LYS:HB2	1:m:643:PRO:HG3	2.01	0.42
1:o:702:THR:HG22	1:u:700:GLN:H	1.84	0.42
1:s:281:TRP:CD1	1:s:397:LEU:HD12	2.55	0.42
1:u:606:VAL:CG1	1:v:625:THR:HG21	2.50	0.42
1:x:313:LEU:HB3	1:x:415:TYR:HB3	2.02	0.42
1:y:451:ILE:HG22	1:y:458:GLN:O	2.19	0.42
1:y:625:THR:HG21	1:7:606:VAL:CG1	2.50	0.42
1:z:621:LYS:HB2	1:z:643:PRO:HG3	2.01	0.42
1:7:700:GLN:H	1:8:702:THR:HG22	1.85	0.42
1:7:702:THR:HG22	1:8:700:GLN:H	1.85	0.42
1:8:528:LYS:HG2	1:8:572:VAL:HG21	2.01	0.42
1:A:281:TRP:CD1	1:A:397:LEU:HD12	2.55	0.41
1:B:519:ASN:HB3	1:B:520:PRO:CD	2.39	0.41
1:D:296:ARG:HG3	1:D:300:ARG:HH11	1.84	0.41
1:E:281:TRP:CD1	1:E:397:LEU:HD12	2.55	0.41
1:H:630:HIS:O	1:H:632:SER:N	2.46	0.41
1:I:528:LYS:HG2	1:I:572:VAL:HG21	2.01	0.41
1:I:621:LYS:HB2	1:I:643:PRO:HG3	2.01	0.41
1:J:290:HIS:CG	1:J:366:PRO:HB3	2.54	0.41
1:K:259:GLN:HB3	1:7:717:THR:HA	2.02	0.41
1:K:625:THR:HG21	1:8:606:VAL:CG1	2.50	0.41
1:L:717:THR:HA	1:2:259:GLN:HB3	2.02	0.41
1:M:625:THR:HG21	1:2:606:VAL:CG1	2.50	0.41
1:N:281:TRP:CD1	1:N:397:LEU:HD12	2.55	0.41
1:N:313:LEU:HB3	1:N:415:TYR:HB3	2.02	0.41
1:N:528:LYS:HG2	1:N:572:VAL:HG21	2.01	0.41
1:O:259:GLN:HB3	1:4:717:THR:HA	2.02	0.41
1:O:606:VAL:CG1	1:g:625:THR:HG21	2.50	0.41
1:P:323:LYS:NZ	1:P:336:ASN:OD1	2.46	0.41
1:R:484:TYR:OH	1:R:508:SER:O	2.37	0.41
1:S:323:LYS:NZ	1:S:336:ASN:OD1	2.46	0.41
1:S:717:THR:HA	1:4:259:GLN:HB3	2.02	0.41
1:T:296:ARG:HG3	1:T:300:ARG:HH11	1.84	0.41
1:T:606:VAL:CG1	1:4:625:THR:HG21	2.50	0.41
1:T:621:LYS:HB2	1:T:643:PRO:HG3	2.01	0.41
1:U:313:LEU:HB3	1:U:415:TYR:HB3	2.02	0.41
1:U:484:TYR:OH	1:U:508:SER:O	2.37	0.41
1:U:621:LYS:HB2	1:U:643:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:527:HIS:HE1	1:X:562:ASN:HD22	1.67	0.41
1:Z:290:HIS:CG	1:Z:366:PRO:HB3	2.54	0.41
1:3:290:HIS:CG	1:3:366:PRO:HB3	2.54	0.41
1:3:527:HIS:HD2	1:3:528:LYS:O	2.03	0.41
1:4:606:VAL:CG1	1:f:625:THR:HG21	2.50	0.41
1:5:290:HIS:CG	1:5:366:PRO:HB3	2.54	0.41
1:6:606:VAL:CG1	1:b:625:THR:HG21	2.50	0.41
1:a:313:LEU:HB3	1:a:415:TYR:HB3	2.02	0.41
1:a:339:THR:HG22	1:e:407:THR:HG21	2.01	0.41
1:b:313:LEU:HB3	1:b:415:TYR:HB3	2.02	0.41
1:c:313:LEU:HB3	1:c:415:TYR:HB3	2.02	0.41
1:c:528:LYS:HG2	1:c:572:VAL:HG21	2.01	0.41
1:f:323:LYS:NZ	1:f:336:ASN:OD1	2.46	0.41
1:g:621:LYS:HB2	1:g:643:PRO:HG3	2.01	0.41
1:h:323:LYS:NZ	1:h:336:ASN:OD1	2.46	0.41
1:i:527:HIS:HE1	1:i:562:ASN:HD22	1.67	0.41
1:j:281:TRP:CD1	1:j:397:LEU:HD12	2.55	0.41
1:k:625:THR:HG21	1:m:606:VAL:CG1	2.50	0.41
1:k:630:HIS:O	1:k:632:SER:N	2.46	0.41
1:k:650:LYS:HB3	1:k:650:LYS:HE3	1.88	0.41
1:l:367:PHE:HA	1:l:368:PRO:HD3	1.92	0.41
1:l:621:LYS:HB2	1:l:643:PRO:HG3	2.01	0.41
1:o:528:LYS:HG2	1:o:572:VAL:HG21	2.01	0.41
1:o:621:LYS:HB2	1:o:643:PRO:HG3	2.01	0.41
1:q:281:TRP:CD1	1:q:397:LEU:HD12	2.55	0.41
1:r:313:LEU:HB3	1:r:415:TYR:HB3	2.02	0.41
1:t:435:LEU:HD23	1:t:435:LEU:HA	1.89	0.41
1:t:621:LYS:HB2	1:t:643:PRO:HG3	2.01	0.41
1:y:621:LYS:HB2	1:y:643:PRO:HG3	2.01	0.41
1:z:503:TRP:CD2	2:z:801:GAL:H2	2.56	0.41
1:7:527:HIS:HE1	1:7:562:ASN:HD22	1.67	0.41
1:8:225:SER:HG	1:8:319:ASN:H	1.64	0.41
1:A:542:ILE:HD12	1:A:542:ILE:HG23	1.85	0.41
1:C:313:LEU:HB3	1:C:415:TYR:HB3	2.02	0.41
1:C:625:THR:HG21	1:M:606:VAL:CG1	2.50	0.41
1:E:650:LYS:HB3	1:E:650:LYS:HE3	1.89	0.41
1:H:503:TRP:CD2	2:H:801:GAL:H2	2.56	0.41
1:H:621:LYS:HB2	1:H:643:PRO:HG3	2.01	0.41
1:L:281:TRP:CD1	1:L:397:LEU:HD12	2.55	0.41
1:M:527:HIS:HD2	1:M:528:LYS:O	2.03	0.41
1:O:350:TYR:OH	1:O:643:PRO:O	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:625:THR:HG21	1:h:606:VAL:CG1	2.50	0.41
1:R:300:ARG:HE	1:R:300:ARG:HB2	1.62	0.41
1:R:650:LYS:HB3	1:R:650:LYS:HE3	1.88	0.41
1:T:259:GLN:HB3	1:c:717:THR:HA	2.02	0.41
1:W:503:TRP:CD2	2:W:801:GAL:H2	2.56	0.41
1:X:296:ARG:HG3	1:X:300:ARG:HH11	1.84	0.41
1:Y:527:HIS:HE1	1:Y:562:ASN:HD22	1.67	0.41
1:2:702:THR:HG22	1:3:700:GLN:H	1.84	0.41
1:5:702:THR:HG22	1:6:700:GLN:H	1.84	0.41
1:a:625:THR:HG21	1:b:606:VAL:CG1	2.50	0.41
1:b:527:HIS:HD2	1:b:528:LYS:O	2.03	0.41
1:c:702:THR:HG22	1:f:700:GLN:H	1.85	0.41
1:g:281:TRP:CD1	1:g:397:LEU:HD12	2.55	0.41
1:h:259:GLN:HB3	1:l:717:THR:HA	2.02	0.41
1:h:503:TRP:CD2	2:h:801:GAL:H2	2.55	0.41
1:h:630:HIS:O	1:h:632:SER:N	2.46	0.41
1:i:630:HIS:O	1:i:632:SER:N	2.46	0.41
1:j:313:LEU:HB3	1:j:415:TYR:HB3	2.02	0.41
1:n:621:LYS:HB2	1:n:643:PRO:HG3	2.01	0.41
1:n:625:THR:HG21	1:p:606:VAL:CG1	2.50	0.41
1:p:281:TRP:CD1	1:p:397:LEU:HD12	2.55	0.41
1:v:290:HIS:CG	1:v:366:PRO:HB3	2.54	0.41
1:y:519:ASN:HB3	1:y:520:PRO:CD	2.39	0.41
1:y:630:HIS:O	1:y:632:SER:N	2.46	0.41
1:8:527:HIS:HD2	1:8:528:LYS:O	2.03	0.41
1:A:503:TRP:CD2	2:A:801:GAL:H2	2.56	0.41
1:D:519:ASN:HB3	1:D:520:PRO:CD	2.39	0.41
1:F:519:ASN:HB3	1:F:520:PRO:CD	2.39	0.41
1:G:313:LEU:HB3	1:G:415:TYR:HB3	2.02	0.41
1:G:527:HIS:HD2	1:G:528:LYS:O	2.03	0.41
1:J:527:HIS:HE1	1:J:562:ASN:HD22	1.67	0.41
1:K:281:TRP:CD1	1:K:397:LEU:HD12	2.55	0.41
1:L:621:LYS:HB2	1:L:643:PRO:HG3	2.01	0.41
1:N:527:HIS:HE1	1:N:562:ASN:HD22	1.68	0.41
1:O:281:TRP:CD1	1:O:397:LEU:HD12	2.55	0.41
1:O:313:LEU:HB3	1:O:415:TYR:HB3	2.02	0.41
1:O:717:THR:HA	1:P:259:GLN:HB3	2.02	0.41
1:R:281:TRP:CD1	1:R:397:LEU:HD12	2.55	0.41
1:R:527:HIS:HD2	1:R:528:LYS:O	2.03	0.41
1:R:527:HIS:HE1	1:R:562:ASN:HD22	1.67	0.41
1:S:367:PHE:HA	1:S:368:PRO:HD3	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:621:LYS:HB2	1:S:643:PRO:HG3	2.01	0.41
1:U:290:HIS:CG	1:U:366:PRO:HB3	2.54	0.41
1:U:527:HIS:HD2	1:U:528:LYS:O	2.03	0.41
1:V:313:LEU:HB3	1:V:415:TYR:HB3	2.02	0.41
1:V:503:TRP:CD2	2:V:801:GAL:H2	2.56	0.41
1:X:630:HIS:O	1:X:632:SER:N	2.46	0.41
1:Z:367:PHE:HA	1:Z:368:PRO:HD3	1.92	0.41
1:1:630:HIS:O	1:1:632:SER:N	2.46	0.41
1:2:290:HIS:CG	1:2:366:PRO:HB3	2.54	0.41
1:2:503:TRP:CD2	2:2:801:GAL:H2	2.56	0.41
1:4:503:TRP:CD2	2:4:801:GAL:H2	2.56	0.41
1:6:503:TRP:CD2	2:6:801:GAL:H2	2.56	0.41
1:c:281:TRP:CD1	1:c:397:LEU:HD12	2.55	0.41
1:c:337:ASN:HD22	1:c:673:GLN:HE21	1.66	0.41
1:d:281:TRP:CD1	1:d:397:LEU:HD12	2.55	0.41
1:f:281:TRP:CD1	1:f:397:LEU:HD12	2.55	0.41
1:f:313:LEU:HB3	1:f:415:TYR:HB3	2.02	0.41
1:j:484:TYR:OH	1:j:508:SER:O	2.37	0.41
1:j:503:TRP:CD2	2:j:801:GAL:H2	2.56	0.41
1:k:281:TRP:CD1	1:k:397:LEU:HD12	2.55	0.41
1:m:290:HIS:CG	1:m:366:PRO:HB3	2.54	0.41
1:n:313:LEU:HB3	1:n:415:TYR:HB3	2.02	0.41
1:o:281:TRP:CD1	1:o:397:LEU:HD12	2.55	0.41
1:p:503:TRP:CD2	2:p:801:GAL:H2	2.56	0.41
1:s:367:PHE:HA	1:s:368:PRO:HD3	1.92	0.41
1:s:519:ASN:HB3	1:s:520:PRO:CD	2.39	0.41
1:t:281:TRP:CD1	1:t:397:LEU:HD12	2.55	0.41
1:t:339:THR:HG22	1:x:407:THR:HG21	2.00	0.41
1:t:625:THR:HG21	1:v:606:VAL:CG1	2.50	0.41
1:v:527:HIS:HE1	1:v:562:ASN:HD22	1.67	0.41
1:y:281:TRP:CD1	1:y:397:LEU:HD12	2.55	0.41
1:y:503:TRP:CD2	2:y:801:GAL:H2	2.56	0.41
1:8:281:TRP:CD1	1:8:397:LEU:HD12	2.55	0.41
1:A:259:GLN:HB3	1:B:717:THR:HA	2.02	0.41
1:C:259:GLN:HB3	1:D:717:THR:HA	2.02	0.41
1:E:527:HIS:HE1	1:E:562:ASN:HD22	1.67	0.41
1:F:630:HIS:O	1:F:632:SER:N	2.46	0.41
1:H:259:GLN:HB3	1:Z:717:THR:HA	2.02	0.41
1:H:281:TRP:CD1	1:H:397:LEU:HD12	2.55	0.41
1:I:281:TRP:CD1	1:I:397:LEU:HD12	2.55	0.41
1:I:323:LYS:NZ	1:I:336:ASN:OD1	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:473:VAL:O	1:I:473:VAL:HG12	2.21	0.41
1:I:503:TRP:CD2	2:I:801:GAL:H2	2.56	0.41
1:J:606:VAL:CG1	1:L:625:THR:HG21	2.50	0.41
1:K:473:VAL:HG12	1:K:473:VAL:O	2.21	0.41
1:M:259:GLN:HB3	1:3:717:THR:HA	2.02	0.41
1:N:503:TRP:CD2	2:N:801:GAL:H2	2.56	0.41
1:N:606:VAL:CG1	1:P:625:THR:HG21	2.50	0.41
1:O:367:PHE:HA	1:O:368:PRO:HD3	1.92	0.41
1:O:528:LYS:HG2	1:O:572:VAL:HG21	2.01	0.41
1:P:281:TRP:CD1	1:P:397:LEU:HD12	2.55	0.41
1:Q:527:HIS:HE1	1:Q:562:ASN:HD22	1.68	0.41
1:R:606:VAL:CG1	1:S:625:THR:HG21	2.50	0.41
1:T:503:TRP:CD2	2:T:801:GAL:H2	2.56	0.41
1:U:244:THR:HA	1:U:679:VAL:O	2.21	0.41
1:V:484:TYR:OH	1:V:508:SER:O	2.37	0.41
1:Z:281:TRP:CD1	1:Z:397:LEU:HD12	2.55	0.41
1:Z:527:HIS:HD2	1:Z:528:LYS:O	2.03	0.41
1:2:296:ARG:HG3	1:2:300:ARG:HH11	1.84	0.41
1:3:606:VAL:CG1	1:i:625:THR:HG21	2.50	0.41
1:5:313:LEU:HB3	1:5:415:TYR:HB3	2.02	0.41
1:5:700:GLN:H	1:6:702:THR:HG22	1.84	0.41
1:6:290:HIS:CG	1:6:366:PRO:HB3	2.54	0.41
1:6:296:ARG:HG3	1:6:300:ARG:HH11	1.84	0.41
1:d:259:GLN:HB3	1:f:717:THR:HA	2.02	0.41
1:e:296:ARG:HG3	1:e:300:ARG:HH11	1.84	0.41
1:e:503:TRP:CD2	2:e:801:GAL:H2	2.56	0.41
1:i:296:ARG:HG3	1:i:300:ARG:HH11	1.84	0.41
1:i:606:VAL:CG1	1:j:625:THR:HG21	2.50	0.41
1:k:519:ASN:HB3	1:k:520:PRO:CD	2.39	0.41
1:k:527:HIS:HE1	1:k:562:ASN:HD22	1.67	0.41
1:k:700:GLN:H	1:r:702:THR:HG22	1.84	0.41
1:m:244:THR:HA	1:m:679:VAL:O	2.21	0.41
1:n:606:VAL:CG1	1:o:625:THR:HG21	2.50	0.41
1:o:503:TRP:CD2	2:o:801:GAL:H2	2.56	0.41
1:t:313:LEU:HB3	1:t:415:TYR:HB3	2.02	0.41
1:x:281:TRP:CD1	1:x:397:LEU:HD12	2.55	0.41
1:x:473:VAL:HG12	1:x:473:VAL:O	2.21	0.41
1:z:657:ASP:OD1	1:z:657:ASP:N	2.54	0.41
1:C:300:ARG:HE	1:C:300:ARG:HB2	1.62	0.41
1:C:606:VAL:CG1	1:2:625:THR:HG21	2.50	0.41
1:G:606:VAL:CG1	1:I:625:THR:HG21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:621:LYS:HB2	1:G:643:PRO:HG3	2.01	0.41
1:H:519:ASN:HB3	1:H:520:PRO:CD	2.39	0.41
1:K:407:THR:HG21	1:L:339:THR:HG22	2.00	0.41
1:L:313:LEU:HB3	1:L:415:TYR:HB3	2.02	0.41
1:N:337:ASN:HD22	1:N:673:GLN:HE21	1.66	0.41
1:N:473:VAL:O	1:N:473:VAL:HG12	2.21	0.41
1:O:323:LYS:NZ	1:O:336:ASN:OD1	2.46	0.41
1:P:503:TRP:CD2	2:P:801:GAL:H2	2.56	0.41
1:R:244:THR:HA	1:R:679:VAL:O	2.21	0.41
1:S:503:TRP:CD2	2:S:801:GAL:H2	2.56	0.41
1:U:503:TRP:CD2	2:U:801:GAL:H2	2.56	0.41
1:U:717:THR:HA	1:5:259:GLN:HB3	2.02	0.41
1:V:625:THR:HG21	1:X:606:VAL:CG1	2.50	0.41
1:W:702:THR:HG22	1:X:700:GLN:H	1.85	0.41
1:X:527:HIS:HD2	1:X:528:LYS:O	2.03	0.41
1:X:625:THR:HG21	1:5:606:VAL:CG1	2.50	0.41
1:Y:484:TYR:OH	1:Y:508:SER:O	2.37	0.41
1:Z:657:ASP:OD1	1:Z:657:ASP:N	2.54	0.41
1:1:702:THR:HG22	1:w:700:GLN:H	1.84	0.41
1:2:657:ASP:OD1	1:2:657:ASP:N	2.54	0.41
1:3:259:GLN:HB3	1:m:717:THR:HA	2.02	0.41
1:3:300:ARG:HE	1:3:300:ARG:HB2	1.62	0.41
1:3:313:LEU:HB3	1:3:415:TYR:HB3	2.02	0.41
1:3:503:TRP:CD2	2:3:801:GAL:H2	2.56	0.41
1:4:350:TYR:OH	1:4:643:PRO:O	2.25	0.41
1:5:717:THR:HA	1:b:259:GLN:HB3	2.02	0.41
1:6:323:LYS:NZ	1:6:336:ASN:OD1	2.46	0.41
1:6:625:THR:HG21	1:a:606:VAL:CG1	2.50	0.41
1:6:657:ASP:OD1	1:6:657:ASP:N	2.54	0.41
1:c:473:VAL:O	1:c:473:VAL:HG12	2.21	0.41
1:c:527:HIS:HE1	1:c:562:ASN:HD22	1.67	0.41
1:d:503:TRP:CD2	2:d:801:GAL:H2	2.56	0.41
1:g:323:LYS:NZ	1:g:336:ASN:OD1	2.46	0.41
1:g:484:TYR:OH	1:g:508:SER:O	2.37	0.41
1:g:503:TRP:CD2	2:g:801:GAL:H2	2.56	0.41
1:i:527:HIS:HD2	1:i:528:LYS:O	2.03	0.41
1:i:700:GLN:H	1:z:702:THR:HG22	1.85	0.41
1:k:244:THR:HA	1:k:679:VAL:O	2.21	0.41
1:k:527:HIS:HD2	1:k:528:LYS:O	2.03	0.41
1:k:606:VAL:CG1	1:l:625:THR:HG21	2.50	0.41
1:k:702:THR:HG22	1:r:700:GLN:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:503:TRP:CD2	2:l:801:GAL:H2	2.56	0.41
1:m:503:TRP:CD2	2:m:801:GAL:H2	2.56	0.41
1:m:527:HIS:HD2	1:m:528:LYS:O	2.03	0.41
1:n:527:HIS:HD2	1:n:528:LYS:O	2.03	0.41
1:o:473:VAL:HG12	1:o:473:VAL:O	2.21	0.41
1:o:484:TYR:OH	1:o:508:SER:O	2.37	0.41
1:q:527:HIS:HE1	1:q:562:ASN:HD22	1.67	0.41
1:q:650:LYS:HB3	1:q:650:LYS:HE3	1.89	0.41
1:r:527:HIS:HE1	1:r:562:ASN:HD22	1.68	0.41
1:t:259:GLN:HB3	1:x:717:THR:HA	2.02	0.41
1:u:503:TRP:CD2	2:u:801:GAL:H2	2.56	0.41
1:7:313:LEU:HB3	1:7:415:TYR:HB3	2.02	0.41
1:8:657:ASP:OD1	1:8:657:ASP:N	2.54	0.41
1:A:657:ASP:N	1:A:657:ASP:OD1	2.54	0.41
1:B:503:TRP:CD2	2:B:801:GAL:H2	2.56	0.41
1:C:503:TRP:CD2	2:C:801:GAL:H2	2.56	0.41
1:D:503:TRP:CD2	2:D:801:GAL:H2	2.56	0.41
1:E:473:VAL:O	1:E:473:VAL:HG12	2.21	0.41
1:E:503:TRP:CD2	2:E:801:GAL:H2	2.56	0.41
1:E:625:THR:HG21	1:F:606:VAL:CG1	2.50	0.41
1:I:717:THR:HA	1:J:259:GLN:HB3	2.02	0.41
1:J:323:LYS:NZ	1:J:336:ASN:OD1	2.46	0.41
1:J:527:HIS:HD2	1:J:528:LYS:O	2.03	0.41
1:K:717:THR:HA	1:L:259:GLN:HB3	2.02	0.41
1:P:290:HIS:CG	1:P:366:PRO:HB3	2.54	0.41
1:P:313:LEU:HB3	1:P:415:TYR:HB3	2.02	0.41
1:Q:244:THR:HA	1:Q:679:VAL:O	2.21	0.41
1:Q:503:TRP:CD2	2:Q:801:GAL:H2	2.56	0.41
1:Q:702:THR:HG22	1:R:700:GLN:H	1.84	0.41
1:T:300:ARG:HE	1:T:300:ARG:HB2	1.62	0.41
1:Y:235:LEU:HB2	1:Y:238:ARG:HG3	2.03	0.41
1:Y:313:LEU:HB3	1:Y:415:TYR:HB3	2.02	0.41
1:4:235:LEU:HB2	1:4:238:ARG:HG3	2.03	0.41
1:5:503:TRP:CD2	2:5:801:GAL:H2	2.56	0.41
1:6:484:TYR:OH	1:6:508:SER:O	2.37	0.41
1:6:570:ASN:HD21	1:6:607:TRP:CB	2.32	0.41
1:a:259:GLN:HB3	1:e:717:THR:HA	2.02	0.41
1:a:503:TRP:CD2	2:a:801:GAL:H2	2.56	0.41
1:d:290:HIS:CG	1:d:366:PRO:HB3	2.54	0.41
1:d:313:LEU:HB3	1:d:415:TYR:HB3	2.02	0.41
1:g:527:HIS:HE1	1:g:562:ASN:HD22	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:503:TRP:CD2	2:i:801:GAL:H2	2.56	0.41
1:j:527:HIS:HE1	1:j:562:ASN:HD22	1.68	0.41
1:n:657:ASP:N	1:n:657:ASP:OD1	2.54	0.41
1:o:650:LYS:HE3	1:o:650:LYS:HB3	1.89	0.41
1:o:717:THR:HA	1:v:259:GLN:HB3	2.02	0.41
1:p:259:GLN:HB3	1:u:717:THR:HA	2.02	0.41
1:p:717:THR:HA	1:q:259:GLN:HB3	2.02	0.41
1:r:244:THR:HA	1:r:679:VAL:O	2.21	0.41
1:t:606:VAL:CG1	1:u:625:THR:HG21	2.50	0.41
1:y:259:GLN:HB3	1:8:717:THR:HA	2.02	0.41
1:z:281:TRP:CD1	1:z:397:LEU:HD12	2.55	0.41
1:7:235:LEU:HB2	1:7:238:ARG:HG3	2.03	0.41
1:8:484:TYR:OH	1:8:508:SER:O	2.37	0.41
1:B:625:THR:HG21	1:L:606:VAL:CG1	2.50	0.41
1:C:484:TYR:OH	1:C:508:SER:O	2.37	0.41
1:D:484:TYR:OH	1:D:508:SER:O	2.37	0.41
1:G:657:ASP:N	1:G:657:ASP:OD1	2.54	0.41
1:I:657:ASP:OD1	1:I:657:ASP:N	2.54	0.41
1:J:225:SER:HG	1:J:319:ASN:H	1.65	0.41
1:J:503:TRP:CD2	2:J:801:GAL:H2	2.56	0.41
1:K:296:ARG:HG3	1:K:300:ARG:HH11	1.84	0.41
1:L:473:VAL:O	1:L:473:VAL:HG12	2.21	0.41
1:M:473:VAL:O	1:M:473:VAL:HG12	2.21	0.41
1:O:235:LEU:HB2	1:O:238:ARG:HG3	2.03	0.41
1:P:570:ASN:HD21	1:P:607:TRP:CB	2.32	0.41
1:Q:700:GLN:H	1:R:702:THR:HG22	1.84	0.41
1:R:503:TRP:CD2	2:R:801:GAL:H2	2.56	0.41
1:R:519:ASN:HB3	1:R:520:PRO:CD	2.39	0.41
1:S:657:ASP:N	1:S:657:ASP:OD1	2.54	0.41
1:T:484:TYR:OH	1:T:508:SER:O	2.37	0.41
1:T:527:HIS:HE1	1:T:562:ASN:HD22	1.68	0.41
1:T:657:ASP:OD1	1:T:657:ASP:N	2.54	0.41
1:V:473:VAL:O	1:V:473:VAL:HG12	2.21	0.41
1:V:527:HIS:HE1	1:V:562:ASN:HD22	1.68	0.41
1:W:281:TRP:CD1	1:W:397:LEU:HD12	2.55	0.41
1:X:473:VAL:O	1:X:473:VAL:HG12	2.21	0.41
1:X:503:TRP:CD2	2:X:801:GAL:H2	2.56	0.41
1:Z:473:VAL:O	1:Z:473:VAL:HG12	2.21	0.41
1:Z:484:TYR:OH	1:Z:508:SER:O	2.37	0.41
1:1:313:LEU:HB3	1:1:415:TYR:HB3	2.02	0.41
1:1:700:GLN:H	1:w:702:THR:HG22	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:484:TYR:OH	1:2:508:SER:O	2.37	0.41
1:5:484:TYR:OH	1:5:508:SER:O	2.37	0.41
1:6:528:LYS:HG2	1:6:572:VAL:HG21	2.01	0.41
1:a:484:TYR:OH	1:a:508:SER:O	2.37	0.41
1:b:323:LYS:NZ	1:b:336:ASN:OD1	2.46	0.41
1:b:473:VAL:O	1:b:473:VAL:HG12	2.21	0.41
1:b:700:GLN:H	1:e:702:THR:HG22	1.85	0.41
1:c:503:TRP:CD2	2:c:801:GAL:H2	2.56	0.41
1:c:606:VAL:CG1	1:d:625:THR:HG21	2.50	0.41
1:d:527:HIS:HD2	1:d:528:LYS:O	2.03	0.41
1:e:484:TYR:OH	1:e:508:SER:O	2.37	0.41
1:f:235:LEU:HB2	1:f:238:ARG:HG3	2.03	0.41
1:f:528:LYS:HG2	1:f:572:VAL:HG21	2.01	0.41
1:g:657:ASP:OD1	1:g:657:ASP:N	2.54	0.41
1:h:235:LEU:HB2	1:h:238:ARG:HG3	2.03	0.41
1:i:235:LEU:HB2	1:i:238:ARG:HG3	2.03	0.41
1:i:473:VAL:HG12	1:i:473:VAL:O	2.21	0.41
1:i:702:THR:HG22	1:z:700:GLN:H	1.85	0.41
1:i:717:THR:HA	1:7:259:GLN:HB3	2.02	0.41
1:j:225:SER:HG	1:j:319:ASN:H	1.65	0.41
1:j:473:VAL:O	1:j:473:VAL:HG12	2.21	0.41
1:k:503:TRP:CD2	2:k:801:GAL:H2	2.56	0.41
1:l:657:ASP:N	1:l:657:ASP:OD1	2.54	0.41
1:m:300:ARG:HE	1:m:300:ARG:HB2	1.62	0.41
1:m:527:HIS:HE1	1:m:562:ASN:HD22	1.67	0.41
1:n:235:LEU:HB2	1:n:238:ARG:HG3	2.03	0.41
1:o:323:LYS:NZ	1:o:336:ASN:OD1	2.46	0.41
1:o:657:ASP:OD1	1:o:657:ASP:N	2.54	0.41
1:p:313:LEU:HB3	1:p:415:TYR:HB3	2.02	0.41
1:p:657:ASP:N	1:p:657:ASP:OD1	2.54	0.41
1:q:473:VAL:O	1:q:473:VAL:HG12	2.21	0.41
1:q:503:TRP:CD2	2:q:801:GAL:H2	2.56	0.41
1:q:625:THR:HG21	1:s:606:VAL:CG1	2.50	0.41
1:r:503:TRP:CD2	2:r:801:GAL:H2	2.56	0.41
1:s:630:HIS:O	1:s:632:SER:N	2.46	0.41
1:t:473:VAL:O	1:t:473:VAL:HG12	2.21	0.41
1:v:225:SER:HG	1:v:319:ASN:H	1.65	0.41
1:v:503:TRP:CD2	2:v:801:GAL:H2	2.56	0.41
1:v:527:HIS:HD2	1:v:528:LYS:O	2.03	0.41
1:w:313:LEU:HB3	1:w:415:TYR:HB3	2.02	0.41
1:w:630:HIS:O	1:w:632:SER:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:484:TYR:OH	1:7:508:SER:O	2.37	0.41
1:8:367:PHE:HA	1:8:368:PRO:HD3	1.92	0.41
1:8:473:VAL:O	1:8:473:VAL:HG12	2.21	0.41
1:A:235:LEU:HB2	1:A:238:ARG:HG3	2.03	0.41
1:A:244:THR:HA	1:A:679:VAL:O	2.21	0.41
1:A:313:LEU:HB3	1:A:415:TYR:HB3	2.02	0.41
1:B:473:VAL:O	1:B:473:VAL:HG12	2.21	0.41
1:C:473:VAL:O	1:C:473:VAL:HG12	2.21	0.41
1:E:527:HIS:HD2	1:E:528:LYS:O	2.03	0.41
1:F:503:TRP:CD2	2:F:801:GAL:H2	2.56	0.41
1:G:235:LEU:HB2	1:G:238:ARG:HG3	2.03	0.41
1:G:519:ASN:HB3	1:G:520:PRO:CD	2.39	0.41
1:I:313:LEU:HB3	1:I:415:TYR:HB3	2.02	0.41
1:K:246:THR:HB	1:K:371:VAL:HG22	2.03	0.41
1:M:246:THR:HB	1:M:371:VAL:HG22	2.03	0.41
1:P:657:ASP:OD1	1:P:657:ASP:N	2.54	0.41
1:Q:657:ASP:OD1	1:Q:657:ASP:N	2.54	0.41
1:T:323:LYS:NZ	1:T:336:ASN:OD1	2.45	0.41
1:U:473:VAL:HG12	1:U:473:VAL:O	2.21	0.41
1:V:225:SER:HG	1:V:319:ASN:H	1.65	0.41
1:W:244:THR:HA	1:W:679:VAL:O	2.21	0.41
1:W:700:GLN:H	1:X:702:THR:HG22	1.85	0.41
1:X:235:LEU:HB2	1:X:238:ARG:HG3	2.03	0.41
1:X:717:THR:HA	1:Y:259:GLN:HB3	2.02	0.41
1:Z:503:TRP:CD2	2:Z:801:GAL:H2	2.56	0.41
1:1:527:HIS:HE1	1:1:562:ASN:HD22	1.67	0.41
1:2:527:HIS:HD2	1:2:528:LYS:O	2.03	0.41
1:2:528:LYS:HG2	1:2:572:VAL:HG21	2.01	0.41
1:4:473:VAL:O	1:4:473:VAL:HG12	2.21	0.41
1:5:323:LYS:NZ	1:5:336:ASN:OD1	2.46	0.41
1:a:473:VAL:O	1:a:473:VAL:HG12	2.21	0.41
1:b:246:THR:HB	1:b:371:VAL:HG22	2.03	0.41
1:c:484:TYR:OH	1:c:508:SER:O	2.37	0.41
1:e:519:ASN:HB3	1:e:520:PRO:CD	2.39	0.41
1:f:367:PHE:HA	1:f:368:PRO:HD3	1.92	0.41
1:h:313:LEU:HB3	1:h:415:TYR:HB3	2.02	0.41
1:h:473:VAL:O	1:h:473:VAL:HG12	2.21	0.41
1:h:527:HIS:HE1	1:h:562:ASN:HD22	1.67	0.41
1:k:473:VAL:O	1:k:473:VAL:HG12	2.21	0.41
1:l:313:LEU:HB3	1:l:415:TYR:HB3	2.02	0.41
1:l:606:VAL:CG1	1:m:625:THR:HG21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:235:LEU:HB2	1:m:238:ARG:HG3	2.03	0.41
1:o:313:LEU:HB3	1:o:415:TYR:HB3	2.02	0.41
1:o:606:VAL:CG1	1:p:625:THR:HG21	2.50	0.41
1:q:527:HIS:HD2	1:q:528:LYS:O	2.03	0.41
1:r:484:TYR:OH	1:r:508:SER:O	2.37	0.41
1:t:235:LEU:HB2	1:t:238:ARG:HG3	2.03	0.41
1:w:527:HIS:HE1	1:w:562:ASN:HD22	1.67	0.41
1:x:246:THR:HB	1:x:371:VAL:HG22	2.03	0.41
1:x:296:ARG:HG3	1:x:300:ARG:HH11	1.84	0.41
1:7:281:TRP:CD1	1:7:397:LEU:HD12	2.55	0.41
1:7:473:VAL:O	1:7:473:VAL:HG12	2.21	0.41
1:8:503:TRP:CD2	2:8:801:GAL:H2	2.56	0.41
1:A:717:THR:HA	1:E:259:GLN:HB3	2.02	0.41
1:B:431:SER:OG	1:B:433:ASP:OD1	2.33	0.41
1:B:657:ASP:N	1:B:657:ASP:OD1	2.54	0.41
1:C:281:TRP:CD1	1:C:397:LEU:HD12	2.55	0.41
1:D:235:LEU:HB2	1:D:238:ARG:HG3	2.03	0.41
1:D:281:TRP:CD1	1:D:397:LEU:HD12	2.55	0.41
1:D:473:VAL:HG12	1:D:473:VAL:O	2.21	0.41
1:D:702:THR:HG22	1:M:700:GLN:H	1.85	0.41
1:E:323:LYS:NZ	1:E:336:ASN:OD1	2.45	0.41
1:E:606:VAL:CG1	1:Q:625:THR:HG21	2.50	0.41
1:G:244:THR:HA	1:G:679:VAL:O	2.21	0.41
1:G:473:VAL:O	1:G:473:VAL:HG12	2.21	0.41
1:G:503:TRP:CD2	2:G:801:GAL:H2	2.56	0.41
1:G:650:LYS:HB3	1:G:650:LYS:HE3	1.89	0.41
1:H:244:THR:HA	1:H:679:VAL:O	2.21	0.41
1:H:473:VAL:O	1:H:473:VAL:HG12	2.21	0.41
1:I:650:LYS:HE3	1:I:650:LYS:HB3	1.89	0.41
1:J:244:THR:HA	1:J:679:VAL:O	2.21	0.41
1:J:281:TRP:CD1	1:J:397:LEU:HD12	2.55	0.41
1:K:503:TRP:CD2	2:K:801:GAL:H2	2.56	0.41
1:L:235:LEU:HB2	1:L:238:ARG:HG3	2.03	0.41
1:M:657:ASP:OD1	1:M:657:ASP:N	2.54	0.41
1:N:244:THR:HA	1:N:679:VAL:O	2.21	0.41
1:N:484:TYR:OH	1:N:508:SER:O	2.37	0.41
1:N:700:GLN:H	1:O:702:THR:HG22	1.85	0.41
1:O:244:THR:HA	1:O:679:VAL:O	2.21	0.41
1:O:473:VAL:HG12	1:O:473:VAL:O	2.21	0.41
1:O:527:HIS:HE1	1:O:562:ASN:HD22	1.67	0.41
1:P:244:THR:HA	1:P:679:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:246:THR:HB	1:P:371:VAL:HG22	2.03	0.41
1:P:435:LEU:HD23	1:P:435:LEU:HA	1.89	0.41
1:P:527:HIS:HD2	1:P:528:LYS:O	2.03	0.41
1:Q:484:TYR:OH	1:Q:508:SER:O	2.37	0.41
1:R:323:LYS:NZ	1:R:336:ASN:OD1	2.45	0.41
1:R:473:VAL:HG12	1:R:473:VAL:O	2.21	0.41
1:S:313:LEU:HB3	1:S:415:TYR:HB3	2.02	0.41
1:S:606:VAL:CG1	1:U:625:THR:HG21	2.50	0.41
1:U:235:LEU:HB2	1:U:238:ARG:HG3	2.03	0.41
1:U:527:HIS:HE1	1:U:562:ASN:HD22	1.67	0.41
1:U:657:ASP:OD1	1:U:657:ASP:N	2.54	0.41
1:V:527:HIS:HD2	1:V:528:LYS:O	2.03	0.41
1:Y:281:TRP:CD1	1:Y:397:LEU:HD12	2.55	0.41
1:Y:473:VAL:O	1:Y:473:VAL:HG12	2.21	0.41
1:Z:235:LEU:HB2	1:Z:238:ARG:HG3	2.03	0.41
1:Z:625:THR:HG21	1:w:606:VAL:CG1	2.50	0.41
1:1:606:VAL:CG1	1:8:625:THR:HG21	2.50	0.41
1:2:235:LEU:HB2	1:2:238:ARG:HG3	2.03	0.41
1:2:300:ARG:HE	1:2:300:ARG:HB2	1.62	0.41
1:3:473:VAL:O	1:3:473:VAL:HG12	2.21	0.41
1:3:484:TYR:OH	1:3:508:SER:O	2.37	0.41
1:4:313:LEU:HB3	1:4:415:TYR:HB3	2.02	0.41
1:4:527:HIS:HD2	1:4:528:LYS:O	2.03	0.41
1:4:527:HIS:HE1	1:4:562:ASN:HD22	1.67	0.41
1:6:235:LEU:HB2	1:6:238:ARG:HG3	2.03	0.41
1:6:527:HIS:HD2	1:6:528:LYS:O	2.03	0.41
1:a:300:ARG:HE	1:a:300:ARG:HB2	1.62	0.41
1:b:235:LEU:HB2	1:b:238:ARG:HG3	2.03	0.41
1:b:503:TRP:CD2	2:b:801:GAL:H2	2.56	0.41
1:c:244:THR:HA	1:c:679:VAL:O	2.21	0.41
1:d:235:LEU:HB2	1:d:238:ARG:HG3	2.03	0.41
1:d:244:THR:HA	1:d:679:VAL:O	2.21	0.41
1:d:246:THR:HB	1:d:371:VAL:HG22	2.03	0.41
1:d:570:ASN:HD21	1:d:607:TRP:CB	2.32	0.41
1:d:657:ASP:N	1:d:657:ASP:OD1	2.54	0.41
1:e:235:LEU:HB2	1:e:238:ARG:HG3	2.03	0.41
1:e:281:TRP:CD1	1:e:397:LEU:HD12	2.55	0.41
1:f:473:VAL:HG12	1:f:473:VAL:O	2.21	0.41
1:f:527:HIS:HE1	1:f:562:ASN:HD22	1.67	0.41
1:h:244:THR:HA	1:h:679:VAL:O	2.21	0.41
1:h:527:HIS:HD2	1:h:528:LYS:O	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:235:LEU:HB2	1:j:238:ARG:HG3	2.03	0.41
1:k:323:LYS:NZ	1:k:336:ASN:OD1	2.45	0.41
1:l:235:LEU:HB2	1:l:238:ARG:HG3	2.03	0.41
1:m:473:VAL:HG12	1:m:473:VAL:O	2.21	0.41
1:m:657:ASP:OD1	1:m:657:ASP:N	2.54	0.41
1:n:244:THR:HA	1:n:679:VAL:O	2.21	0.41
1:n:473:VAL:O	1:n:473:VAL:HG12	2.21	0.41
1:n:503:TRP:CD2	2:n:801:GAL:H2	2.56	0.41
1:o:300:ARG:HE	1:o:300:ARG:HB2	1.62	0.41
1:p:235:LEU:HB2	1:p:238:ARG:HG3	2.03	0.41
1:p:244:THR:HA	1:p:679:VAL:O	2.21	0.41
1:r:657:ASP:OD1	1:r:657:ASP:N	2.54	0.41
1:s:503:TRP:CD2	2:s:801:GAL:H2	2.56	0.41
1:u:473:VAL:O	1:u:473:VAL:HG12	2.21	0.41
1:u:657:ASP:N	1:u:657:ASP:OD1	2.54	0.41
1:v:281:TRP:CD1	1:v:397:LEU:HD12	2.55	0.41
1:v:323:LYS:NZ	1:v:336:ASN:OD1	2.46	0.41
1:y:244:THR:HA	1:y:679:VAL:O	2.21	0.41
1:y:473:VAL:O	1:y:473:VAL:HG12	2.21	0.41
1:z:244:THR:HA	1:z:679:VAL:O	2.21	0.41
1:8:235:LEU:HB2	1:8:238:ARG:HG3	2.03	0.41
1:8:313:LEU:HB3	1:8:415:TYR:HB3	2.02	0.41
1:A:625:THR:HG21	1:I:606:VAL:CG1	2.50	0.41
1:F:244:THR:HA	1:F:679:VAL:O	2.21	0.41
1:H:246:THR:HB	1:H:371:VAL:HG22	2.03	0.41
1:J:650:LYS:HB3	1:J:650:LYS:HE3	1.88	0.41
1:K:244:THR:HA	1:K:679:VAL:O	2.21	0.41
1:L:503:TRP:CD2	2:L:801:GAL:H2	2.56	0.41
1:M:235:LEU:HB2	1:M:238:ARG:HG3	2.03	0.41
1:M:323:LYS:NZ	1:M:336:ASN:OD1	2.46	0.41
1:M:503:TRP:CD2	2:M:801:GAL:H2	2.56	0.41
1:N:235:LEU:HB2	1:N:238:ARG:HG3	2.03	0.41
1:S:235:LEU:HB2	1:S:238:ARG:HG3	2.03	0.41
1:V:235:LEU:HB2	1:V:238:ARG:HG3	2.03	0.41
1:Z:313:LEU:HB3	1:Z:415:TYR:HB3	2.02	0.41
1:2:244:THR:HA	1:2:679:VAL:O	2.21	0.41
1:2:473:VAL:O	1:2:473:VAL:HG12	2.21	0.41
1:4:244:THR:HA	1:4:679:VAL:O	2.21	0.41
1:5:473:VAL:O	1:5:473:VAL:HG12	2.21	0.41
1:6:246:THR:HB	1:6:371:VAL:HG22	2.03	0.41
1:6:473:VAL:O	1:6:473:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:657:ASP:OD1	1:a:657:ASP:N	2.54	0.41
1:f:244:THR:HA	1:f:679:VAL:O	2.21	0.41
1:j:527:HIS:HD2	1:j:528:LYS:O	2.03	0.41
1:n:519:ASN:HB3	1:n:520:PRO:CD	2.39	0.41
1:q:606:VAL:CG1	1:r:625:THR:HG21	2.50	0.41
1:s:244:THR:HA	1:s:679:VAL:O	2.21	0.41
1:u:431:SER:OG	1:u:433:ASP:OD1	2.33	0.41
1:v:244:THR:HA	1:v:679:VAL:O	2.21	0.41
1:w:281:TRP:CD1	1:w:397:LEU:HD12	2.55	0.41
1:x:503:TRP:CD2	2:x:801:GAL:H2	2.56	0.41
1:C:657:ASP:OD1	1:C:657:ASP:N	2.54	0.40
1:D:606:VAL:CG1	1:N:625:THR:HG21	2.50	0.40
1:F:527:HIS:HD2	1:F:528:LYS:O	2.03	0.40
1:K:235:LEU:HB2	1:K:238:ARG:HG3	2.03	0.40
1:P:235:LEU:HB2	1:P:238:ARG:HG3	2.03	0.40
1:S:312:ARG:NH2	1:S:684:GLU:OE1	2.55	0.40
1:U:246:THR:HB	1:U:371:VAL:HG22	2.03	0.40
1:V:244:THR:HA	1:V:679:VAL:O	2.21	0.40
1:V:570:ASN:HD21	1:V:607:TRP:CB	2.32	0.40
1:1:281:TRP:CD1	1:1:397:LEU:HD12	2.55	0.40
1:2:246:THR:HB	1:2:371:VAL:HG22	2.03	0.40
1:3:323:LYS:NZ	1:3:336:ASN:OD1	2.46	0.40
1:6:244:THR:HA	1:6:679:VAL:O	2.21	0.40
1:a:281:TRP:CD1	1:a:397:LEU:HD12	2.55	0.40
1:b:657:ASP:OD1	1:b:657:ASP:N	2.54	0.40
1:e:473:VAL:O	1:e:473:VAL:HG12	2.21	0.40
1:g:244:THR:HA	1:g:679:VAL:O	2.21	0.40
1:g:313:LEU:HB3	1:g:415:TYR:HB3	2.02	0.40
1:h:657:ASP:OD1	1:h:657:ASP:N	2.54	0.40
1:l:312:ARG:NH2	1:l:684:GLU:OE1	2.55	0.40
1:m:246:THR:HB	1:m:371:VAL:HG22	2.03	0.40
1:t:503:TRP:CD2	2:t:801:GAL:H2	2.56	0.40
1:x:235:LEU:HB2	1:x:238:ARG:HG3	2.03	0.40
1:x:244:THR:HA	1:x:679:VAL:O	2.21	0.40
1:y:246:THR:HB	1:y:371:VAL:HG22	2.03	0.40
1:A:312:ARG:NH2	1:A:684:GLU:OE1	2.55	0.40
1:C:312:ARG:NH2	1:C:684:GLU:OE1	2.55	0.40
1:F:313:LEU:HB3	1:F:415:TYR:HB3	2.02	0.40
1:I:235:LEU:HB2	1:I:238:ARG:HG3	2.03	0.40
1:J:657:ASP:N	1:J:657:ASP:OD1	2.54	0.40
1:T:313:LEU:HB3	1:T:415:TYR:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:313:LEU:HB3	1:W:415:TYR:HB3	2.02	0.40
1:Y:657:ASP:N	1:Y:657:ASP:OD1	2.54	0.40
1:6:300:ARG:HE	1:6:300:ARG:HB2	1.62	0.40
1:a:312:ARG:NH2	1:a:684:GLU:OE1	2.55	0.40
1:b:407:THR:HG22	1:c:406:ARG:HH12	1.86	0.40
1:c:235:LEU:HB2	1:c:238:ARG:HG3	2.03	0.40
1:c:312:ARG:NH2	1:c:684:GLU:OE1	2.54	0.40
1:f:503:TRP:CD2	2:f:801:GAL:H2	2.56	0.40
1:f:570:ASN:HD21	1:f:607:TRP:CB	2.32	0.40
1:j:244:THR:HA	1:j:679:VAL:O	2.21	0.40
1:j:570:ASN:HD21	1:j:607:TRP:CB	2.32	0.40
1:j:650:LYS:HE3	1:j:650:LYS:HB3	1.89	0.40
1:l:473:VAL:O	1:l:473:VAL:HG12	2.21	0.40
1:p:312:ARG:NH2	1:p:684:GLU:OE1	2.55	0.40
1:q:323:LYS:NZ	1:q:336:ASN:OD1	2.45	0.40
1:s:313:LEU:HB3	1:s:415:TYR:HB3	2.02	0.40
1:s:527:HIS:HD2	1:s:528:LYS:O	2.03	0.40
1:u:300:ARG:HE	1:u:300:ARG:HB2	1.62	0.40
1:v:473:VAL:HG12	1:v:473:VAL:O	2.21	0.40
1:v:484:TYR:OH	1:v:508:SER:O	2.37	0.40
1:y:484:TYR:OH	1:y:508:SER:O	2.37	0.40
1:z:313:LEU:HB3	1:z:415:TYR:HB3	2.02	0.40
1:7:657:ASP:N	1:7:657:ASP:OD1	2.54	0.40
1:8:323:LYS:NZ	1:8:336:ASN:OD1	2.46	0.40
1:B:435:LEU:HD23	1:B:435:LEU:HA	1.89	0.40
1:C:235:LEU:HB2	1:C:238:ARG:HG3	2.03	0.40
1:E:235:LEU:HB2	1:E:238:ARG:HG3	2.03	0.40
1:H:313:LEU:HB3	1:H:415:TYR:HB3	2.02	0.40
1:H:598:ASN:ND2	1:Y:599:GLN:OE1	2.37	0.40
1:H:657:ASP:N	1:H:657:ASP:OD1	2.54	0.40
1:J:473:VAL:HG12	1:J:473:VAL:O	2.21	0.40
1:M:244:THR:HA	1:M:679:VAL:O	2.21	0.40
1:N:312:ARG:NH2	1:N:684:GLU:OE1	2.55	0.40
1:O:503:TRP:CD2	2:O:801:GAL:H2	2.56	0.40
1:Q:650:LYS:HB3	1:Q:650:LYS:HE3	1.89	0.40
1:S:473:VAL:O	1:S:473:VAL:HG12	2.21	0.40
1:U:300:ARG:HE	1:U:300:ARG:HB2	1.62	0.40
1:V:450:THR:HG23	1:5:502:ALA:HB2	2.03	0.40
1:V:657:ASP:OD1	1:V:657:ASP:N	2.54	0.40
1:W:606:VAL:CG1	1:Y:625:THR:HG21	2.50	0.40
1:Y:407:THR:HG22	1:x:406:ARG:HH12	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:323:LYS:NZ	1:Z:336:ASN:OD1	2.46	0.40
1:1:323:LYS:NZ	1:1:336:ASN:OD1	2.46	0.40
1:3:657:ASP:OD1	1:3:657:ASP:N	2.54	0.40
1:4:657:ASP:N	1:4:657:ASP:OD1	2.54	0.40
1:e:244:THR:HA	1:e:679:VAL:O	2.21	0.40
1:i:657:ASP:OD1	1:i:657:ASP:N	2.54	0.40
1:j:657:ASP:OD1	1:j:657:ASP:N	2.54	0.40
1:n:650:LYS:HB3	1:n:650:LYS:HE3	1.89	0.40
1:o:235:LEU:HB2	1:o:238:ARG:HG3	2.03	0.40
1:q:235:LEU:HB2	1:q:238:ARG:HG3	2.03	0.40
1:v:650:LYS:HB3	1:v:650:LYS:HE3	1.88	0.40
1:v:657:ASP:OD1	1:v:657:ASP:N	2.54	0.40
1:w:244:THR:HA	1:w:679:VAL:O	2.21	0.40
1:y:313:LEU:HB3	1:y:415:TYR:HB3	2.02	0.40
1:z:473:VAL:O	1:z:473:VAL:HG12	2.21	0.40
1:A:570:ASN:HD21	1:A:607:TRP:CB	2.32	0.40
1:B:300:ARG:HE	1:B:300:ARG:HB2	1.62	0.40
1:D:244:THR:HA	1:D:679:VAL:O	2.21	0.40
1:D:657:ASP:OD1	1:D:657:ASP:N	2.54	0.40
1:E:313:LEU:HB3	1:E:415:TYR:HB3	2.02	0.40
1:F:235:LEU:HB2	1:F:238:ARG:HG3	2.03	0.40
1:G:717:THR:HA	1:W:259:GLN:HB3	2.02	0.40
1:H:450:THR:HG23	1:W:502:ALA:HB2	2.04	0.40
1:J:484:TYR:OH	1:J:508:SER:O	2.37	0.40
1:K:406:ARG:HH12	1:7:407:THR:HG22	1.87	0.40
1:L:244:THR:HA	1:L:679:VAL:O	2.21	0.40
1:O:312:ARG:NH2	1:O:684:GLU:OE1	2.54	0.40
1:O:435:LEU:HD23	1:O:435:LEU:HA	1.89	0.40
1:O:570:ASN:HD21	1:O:607:TRP:CB	2.32	0.40
1:Q:317:LEU:HB2	1:Q:411:PHE:HB3	2.04	0.40
1:R:312:ARG:NH2	1:R:684:GLU:OE1	2.55	0.40
1:R:313:LEU:HB3	1:R:415:TYR:HB3	2.02	0.40
1:T:244:THR:HA	1:T:679:VAL:O	2.21	0.40
1:X:657:ASP:OD1	1:X:657:ASP:N	2.54	0.40
1:Y:503:TRP:CD2	2:Y:801:GAL:H2	2.56	0.40
1:Z:244:THR:HA	1:Z:679:VAL:O	2.21	0.40
1:1:244:THR:HA	1:1:679:VAL:O	2.21	0.40
1:1:246:THR:HB	1:1:371:VAL:HG22	2.03	0.40
1:1:657:ASP:N	1:1:657:ASP:OD1	2.54	0.40
1:3:502:ALA:HB2	1:j:450:THR:HG23	2.03	0.40
1:3:650:LYS:HE3	1:3:650:LYS:HB3	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:312:ARG:NH2	1:4:684:GLU:OE1	2.54	0.40
1:a:235:LEU:HB2	1:a:238:ARG:HG3	2.03	0.40
1:b:244:THR:HA	1:b:679:VAL:O	2.21	0.40
1:e:657:ASP:OD1	1:e:657:ASP:N	2.54	0.40
1:f:312:ARG:NH2	1:f:684:GLU:OE1	2.55	0.40
1:h:312:ARG:NH2	1:h:684:GLU:OE1	2.54	0.40
1:i:244:THR:HA	1:i:679:VAL:O	2.21	0.40
1:k:312:ARG:NH2	1:k:684:GLU:OE1	2.55	0.40
1:k:313:LEU:HB3	1:k:415:TYR:HB3	2.02	0.40
1:p:300:ARG:HE	1:p:300:ARG:HB2	1.62	0.40
1:q:312:ARG:NH2	1:q:684:GLU:OE1	2.55	0.40
1:r:317:LEU:HB2	1:r:411:PHE:HB3	2.04	0.40
1:s:473:VAL:HG12	1:s:473:VAL:O	2.21	0.40
1:w:246:THR:HB	1:w:371:VAL:HG22	2.03	0.40
1:w:323:LYS:NZ	1:w:336:ASN:OD1	2.46	0.40
1:w:657:ASP:N	1:w:657:ASP:OD1	2.54	0.40
1:y:598:ASN:ND2	1:7:599:GLN:OE1	2.37	0.40
1:y:657:ASP:N	1:y:657:ASP:OD1	2.54	0.40
1:z:606:VAL:CG1	1:7:625:THR:HG21	2.50	0.40
1:B:630:HIS:O	1:B:632:SER:N	2.46	0.40
1:E:246:THR:HB	1:E:371:VAL:HG22	2.03	0.40
1:E:312:ARG:NH2	1:E:684:GLU:OE1	2.55	0.40
1:F:473:VAL:HG12	1:F:473:VAL:O	2.21	0.40
1:G:630:HIS:O	1:G:632:SER:N	2.46	0.40
1:I:300:ARG:HE	1:I:300:ARG:HB2	1.62	0.40
1:I:527:HIS:HE1	1:I:562:ASN:HD22	1.68	0.40
1:L:246:THR:HB	1:L:371:VAL:HG22	2.03	0.40
1:L:312:ARG:NH2	1:L:684:GLU:OE1	2.55	0.40
1:N:246:THR:HB	1:N:371:VAL:HG22	2.03	0.40
1:O:696:ASN:OD1	1:O:696:ASN:N	2.55	0.40
1:Q:312:ARG:NH2	1:Q:684:GLU:OE1	2.55	0.40
1:Q:696:ASN:OD1	1:Q:696:ASN:N	2.55	0.40
1:S:244:THR:HA	1:S:679:VAL:O	2.21	0.40
1:T:473:VAL:O	1:T:473:VAL:HG12	2.21	0.40
1:W:473:VAL:O	1:W:473:VAL:HG12	2.21	0.40
1:X:244:THR:HA	1:X:679:VAL:O	2.21	0.40
1:Z:630:HIS:O	1:Z:632:SER:N	2.46	0.40
1:1:473:VAL:O	1:1:473:VAL:HG12	2.21	0.40
1:a:244:THR:HA	1:a:679:VAL:O	2.21	0.40
1:a:246:THR:HB	1:a:371:VAL:HG22	2.03	0.40
1:a:559:MET:SD	1:a:725:ARG:HA	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:246:THR:HB	1:c:371:VAL:HG22	2.03	0.40
1:d:312:ARG:NH2	1:d:684:GLU:OE1	2.55	0.40
1:i:246:THR:HB	1:i:371:VAL:HG22	2.03	0.40
1:i:312:ARG:NH2	1:i:684:GLU:OE1	2.55	0.40
1:j:559:MET:SD	1:j:725:ARG:HA	2.62	0.40
1:o:527:HIS:HE1	1:o:562:ASN:HD22	1.68	0.40
1:o:542:ILE:HD12	1:o:542:ILE:HG23	1.85	0.40
1:q:246:THR:HB	1:q:371:VAL:HG22	2.03	0.40
1:q:313:LEU:HB3	1:q:415:TYR:HB3	2.02	0.40
1:q:450:THR:HG23	1:r:502:ALA:HB2	2.04	0.40
1:r:696:ASN:OD1	1:r:696:ASN:N	2.55	0.40
1:s:235:LEU:HB2	1:s:238:ARG:HG3	2.03	0.40
1:t:244:THR:HA	1:t:679:VAL:O	2.21	0.40
1:t:312:ARG:NH2	1:t:684:GLU:OE1	2.55	0.40
1:w:312:ARG:NH2	1:w:684:GLU:OE1	2.54	0.40
1:y:450:THR:HG23	1:z:502:ALA:HB2	2.04	0.40
1:z:312:ARG:NH2	1:z:684:GLU:OE1	2.54	0.40
1:7:503:TRP:CD2	2:7:801:GAL:H2	2.56	0.40
1:8:244:THR:HA	1:8:679:VAL:O	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	2	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	3	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	4	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	5	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	6	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	7	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	8	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	A	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	B	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	C	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	D	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	E	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	F	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	G	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	H	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	I	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	J	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	K	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	L	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	M	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	N	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	O	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	P	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	Q	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	R	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	S	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	T	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	U	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	V	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	W	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	X	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	Y	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	Z	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	a	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	b	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	d	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	e	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	f	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	g	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	h	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	i	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	j	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	k	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	l	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	m	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	n	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	o	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	p	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	q	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	r	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	s	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	t	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	u	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	v	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	w	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	x	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	y	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
1	z	516/518 (100%)	505 (98%)	10 (2%)	1 (0%)	43	65
All	All	30960/31080 (100%)	30300 (98%)	600 (2%)	60 (0%)	44	65

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	520	PRO
1	B	520	PRO
1	C	520	PRO
1	D	520	PRO
1	E	520	PRO

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Mol	Chain	Res	Type
1	F	520	PRO
1	G	520	PRO
1	H	520	PRO
1	I	520	PRO
1	J	520	PRO
1	K	520	PRO
1	L	520	PRO
1	M	520	PRO
1	N	520	PRO
1	O	520	PRO
1	P	520	PRO
1	Q	520	PRO
1	R	520	PRO
1	S	520	PRO
1	T	520	PRO
1	U	520	PRO
1	V	520	PRO
1	X	520	PRO
1	Y	520	PRO
1	Z	520	PRO
1	1	520	PRO
1	2	520	PRO
1	3	520	PRO
1	4	520	PRO
1	5	520	PRO
1	6	520	PRO
1	a	520	PRO
1	b	520	PRO
1	c	520	PRO
1	d	520	PRO
1	e	520	PRO
1	f	520	PRO
1	g	520	PRO
1	h	520	PRO
1	i	520	PRO
1	j	520	PRO
1	k	520	PRO
1	l	520	PRO
1	m	520	PRO
1	n	520	PRO
1	o	520	PRO
1	p	520	PRO

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Mol	Chain	Res	Type
1	q	520	PRO
1	r	520	PRO
1	s	520	PRO
1	t	520	PRO
1	u	520	PRO
1	v	520	PRO
1	w	520	PRO
1	x	520	PRO
1	y	520	PRO
1	z	520	PRO
1	7	520	PRO
1	8	520	PRO
1	W	520	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	2	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	3	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	4	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	5	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	6	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	7	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	8	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	A	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	B	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	C	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	D	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	E	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	F	453/453 (100%)	452 (100%)	1 (0%)	87	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	H	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	I	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	J	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	K	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	L	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	M	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	N	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	O	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	P	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	Q	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	R	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	S	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	T	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	U	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	V	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	W	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	X	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	Y	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	Z	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	a	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	b	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	c	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	d	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	e	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	f	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	g	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	h	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	i	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	j	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	k	453/453 (100%)	452 (100%)	1 (0%)	87	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	l	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	m	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	n	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	o	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	p	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	q	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	r	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	s	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	t	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	u	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	v	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	w	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	x	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	y	453/453 (100%)	452 (100%)	1 (0%)	87	95
1	z	453/453 (100%)	452 (100%)	1 (0%)	87	95
All	All	27180/27180 (100%)	27120 (100%)	60 (0%)	85	95

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	556	ASP
1	B	556	ASP
1	C	556	ASP
1	D	556	ASP
1	E	556	ASP
1	F	556	ASP
1	G	556	ASP
1	H	556	ASP
1	I	556	ASP
1	J	556	ASP
1	K	556	ASP
1	L	556	ASP
1	M	556	ASP
1	N	556	ASP
1	O	556	ASP
1	P	556	ASP
1	Q	556	ASP

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Mol	Chain	Res	Type
1	R	556	ASP
1	S	556	ASP
1	T	556	ASP
1	U	556	ASP
1	V	556	ASP
1	W	556	ASP
1	X	556	ASP
1	Y	556	ASP
1	Z	556	ASP
1	1	556	ASP
1	2	556	ASP
1	3	556	ASP
1	4	556	ASP
1	5	556	ASP
1	6	556	ASP
1	a	556	ASP
1	b	556	ASP
1	c	556	ASP
1	d	556	ASP
1	e	556	ASP
1	f	556	ASP
1	g	556	ASP
1	h	556	ASP
1	i	556	ASP
1	j	556	ASP
1	k	556	ASP
1	l	556	ASP
1	m	556	ASP
1	n	556	ASP
1	o	556	ASP
1	p	556	ASP
1	q	556	ASP
1	r	556	ASP
1	s	556	ASP
1	t	556	ASP
1	u	556	ASP
1	v	556	ASP
1	w	556	ASP
1	x	556	ASP
1	y	556	ASP
1	z	556	ASP
1	7	556	ASP

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Mol	Chain	Res	Type
1	8	556	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (760) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	233	GLN
1	A	304	ASN
1	A	428	HIS
1	A	495	GLN
1	A	497	ASN
1	A	527	HIS
1	A	546	GLN
1	A	584	HIS
1	A	585	GLN
1	A	624	HIS
1	A	646	GLN
1	A	673	GLN
1	A	710	ASN
1	B	233	GLN
1	B	304	ASN
1	B	428	HIS
1	B	495	GLN
1	B	497	ASN
1	B	527	HIS
1	B	546	GLN
1	B	584	HIS
1	B	585	GLN
1	B	624	HIS
1	B	646	GLN
1	B	673	GLN
1	B	710	ASN
1	C	233	GLN
1	C	304	ASN
1	C	428	HIS
1	C	495	GLN
1	C	497	ASN
1	C	527	HIS
1	C	546	GLN
1	C	584	HIS
1	C	585	GLN
1	C	624	HIS
1	C	646	GLN

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Mol	Chain	Res	Type
1	C	673	GLN
1	C	710	ASN
1	D	233	GLN
1	D	304	ASN
1	D	428	HIS
1	D	495	GLN
1	D	497	ASN
1	D	527	HIS
1	D	546	GLN
1	D	584	HIS
1	D	585	GLN
1	D	624	HIS
1	D	646	GLN
1	D	673	GLN
1	D	710	ASN
1	E	233	GLN
1	E	304	ASN
1	E	428	HIS
1	E	495	GLN
1	E	497	ASN
1	E	527	HIS
1	E	546	GLN
1	E	584	HIS
1	E	585	GLN
1	E	624	HIS
1	E	646	GLN
1	E	673	GLN
1	F	233	GLN
1	F	304	ASN
1	F	428	HIS
1	F	495	GLN
1	F	497	ASN
1	F	527	HIS
1	F	546	GLN
1	F	584	HIS
1	F	585	GLN
1	F	624	HIS
1	F	646	GLN
1	F	673	GLN
1	F	710	ASN
1	G	233	GLN
1	G	304	ASN

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Mol	Chain	Res	Type
1	G	428	HIS
1	G	495	GLN
1	G	497	ASN
1	G	527	HIS
1	G	546	GLN
1	G	584	HIS
1	G	585	GLN
1	G	624	HIS
1	G	646	GLN
1	G	673	GLN
1	G	710	ASN
1	H	233	GLN
1	H	304	ASN
1	H	428	HIS
1	H	495	GLN
1	H	497	ASN
1	H	527	HIS
1	H	546	GLN
1	H	585	GLN
1	H	624	HIS
1	H	646	GLN
1	H	673	GLN
1	H	710	ASN
1	I	233	GLN
1	I	304	ASN
1	I	428	HIS
1	I	495	GLN
1	I	497	ASN
1	I	527	HIS
1	I	546	GLN
1	I	584	HIS
1	I	585	GLN
1	I	624	HIS
1	I	646	GLN
1	I	673	GLN
1	J	233	GLN
1	J	304	ASN
1	J	428	HIS
1	J	495	GLN
1	J	497	ASN
1	J	527	HIS
1	J	546	GLN

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Mol	Chain	Res	Type
1	J	584	HIS
1	J	585	GLN
1	J	624	HIS
1	J	646	GLN
1	J	673	GLN
1	J	710	ASN
1	K	233	GLN
1	K	304	ASN
1	K	428	HIS
1	K	495	GLN
1	K	497	ASN
1	K	527	HIS
1	K	546	GLN
1	K	584	HIS
1	K	585	GLN
1	K	624	HIS
1	K	646	GLN
1	K	673	GLN
1	K	710	ASN
1	L	233	GLN
1	L	304	ASN
1	L	428	HIS
1	L	495	GLN
1	L	497	ASN
1	L	527	HIS
1	L	546	GLN
1	L	584	HIS
1	L	585	GLN
1	L	624	HIS
1	L	646	GLN
1	L	673	GLN
1	L	710	ASN
1	M	233	GLN
1	M	304	ASN
1	M	428	HIS
1	M	495	GLN
1	M	497	ASN
1	M	527	HIS
1	M	546	GLN
1	M	584	HIS
1	M	585	GLN
1	M	624	HIS

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Mol	Chain	Res	Type
1	M	646	GLN
1	M	673	GLN
1	N	233	GLN
1	N	304	ASN
1	N	428	HIS
1	N	495	GLN
1	N	497	ASN
1	N	527	HIS
1	N	546	GLN
1	N	584	HIS
1	N	585	GLN
1	N	624	HIS
1	N	646	GLN
1	N	673	GLN
1	N	710	ASN
1	O	233	GLN
1	O	304	ASN
1	O	428	HIS
1	O	495	GLN
1	O	497	ASN
1	O	527	HIS
1	O	546	GLN
1	O	584	HIS
1	O	585	GLN
1	O	624	HIS
1	O	646	GLN
1	O	673	GLN
1	O	710	ASN
1	P	233	GLN
1	P	304	ASN
1	P	428	HIS
1	P	495	GLN
1	P	497	ASN
1	P	527	HIS
1	P	546	GLN
1	P	584	HIS
1	P	585	GLN
1	P	624	HIS
1	P	646	GLN
1	P	673	GLN
1	P	710	ASN
1	Q	233	GLN

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Mol	Chain	Res	Type
1	Q	304	ASN
1	Q	428	HIS
1	Q	495	GLN
1	Q	497	ASN
1	Q	527	HIS
1	Q	546	GLN
1	Q	585	GLN
1	Q	624	HIS
1	Q	646	GLN
1	Q	673	GLN
1	R	233	GLN
1	R	304	ASN
1	R	428	HIS
1	R	495	GLN
1	R	497	ASN
1	R	527	HIS
1	R	546	GLN
1	R	584	HIS
1	R	585	GLN
1	R	624	HIS
1	R	646	GLN
1	R	673	GLN
1	R	710	ASN
1	S	233	GLN
1	S	304	ASN
1	S	428	HIS
1	S	495	GLN
1	S	497	ASN
1	S	527	HIS
1	S	546	GLN
1	S	584	HIS
1	S	585	GLN
1	S	624	HIS
1	S	646	GLN
1	S	673	GLN
1	S	710	ASN
1	T	233	GLN
1	T	304	ASN
1	T	428	HIS
1	T	495	GLN
1	T	497	ASN
1	T	527	HIS

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Mol	Chain	Res	Type
1	T	546	GLN
1	T	584	HIS
1	T	585	GLN
1	T	624	HIS
1	T	646	GLN
1	T	673	GLN
1	U	233	GLN
1	U	304	ASN
1	U	428	HIS
1	U	495	GLN
1	U	497	ASN
1	U	527	HIS
1	U	546	GLN
1	U	584	HIS
1	U	585	GLN
1	U	624	HIS
1	U	646	GLN
1	U	673	GLN
1	U	710	ASN
1	V	233	GLN
1	V	304	ASN
1	V	428	HIS
1	V	495	GLN
1	V	497	ASN
1	V	527	HIS
1	V	546	GLN
1	V	584	HIS
1	V	585	GLN
1	V	624	HIS
1	V	646	GLN
1	V	673	GLN
1	V	710	ASN
1	W	233	GLN
1	W	304	ASN
1	W	428	HIS
1	W	495	GLN
1	W	497	ASN
1	W	527	HIS
1	W	546	GLN
1	W	584	HIS
1	W	585	GLN
1	W	624	HIS

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Mol	Chain	Res	Type
1	W	646	GLN
1	W	673	GLN
1	W	710	ASN
1	X	233	GLN
1	X	304	ASN
1	X	428	HIS
1	X	495	GLN
1	X	497	ASN
1	X	527	HIS
1	X	546	GLN
1	X	584	HIS
1	X	585	GLN
1	X	624	HIS
1	X	646	GLN
1	X	673	GLN
1	Y	233	GLN
1	Y	304	ASN
1	Y	428	HIS
1	Y	495	GLN
1	Y	497	ASN
1	Y	527	HIS
1	Y	546	GLN
1	Y	584	HIS
1	Y	585	GLN
1	Y	624	HIS
1	Y	646	GLN
1	Y	673	GLN
1	Y	710	ASN
1	Z	233	GLN
1	Z	304	ASN
1	Z	428	HIS
1	Z	495	GLN
1	Z	497	ASN
1	Z	527	HIS
1	Z	546	GLN
1	Z	584	HIS
1	Z	585	GLN
1	Z	624	HIS
1	Z	646	GLN
1	Z	673	GLN
1	Z	710	ASN
1	1	233	GLN

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Mol	Chain	Res	Type
1	1	304	ASN
1	1	428	HIS
1	1	495	GLN
1	1	497	ASN
1	1	527	HIS
1	1	546	GLN
1	1	584	HIS
1	1	585	GLN
1	1	624	HIS
1	1	646	GLN
1	1	673	GLN
1	1	710	ASN
1	2	233	GLN
1	2	304	ASN
1	2	428	HIS
1	2	495	GLN
1	2	497	ASN
1	2	527	HIS
1	2	546	GLN
1	2	584	HIS
1	2	585	GLN
1	2	624	HIS
1	2	646	GLN
1	2	673	GLN
1	2	710	ASN
1	3	233	GLN
1	3	304	ASN
1	3	428	HIS
1	3	495	GLN
1	3	497	ASN
1	3	527	HIS
1	3	546	GLN
1	3	584	HIS
1	3	585	GLN
1	3	624	HIS
1	3	646	GLN
1	3	673	GLN
1	3	710	ASN
1	4	233	GLN
1	4	304	ASN
1	4	428	HIS
1	4	495	GLN

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Mol	Chain	Res	Type
1	4	497	ASN
1	4	527	HIS
1	4	546	GLN
1	4	585	GLN
1	4	624	HIS
1	4	646	GLN
1	4	673	GLN
1	4	710	ASN
1	5	233	GLN
1	5	304	ASN
1	5	428	HIS
1	5	495	GLN
1	5	497	ASN
1	5	527	HIS
1	5	546	GLN
1	5	584	HIS
1	5	585	GLN
1	5	624	HIS
1	5	646	GLN
1	5	673	GLN
1	5	710	ASN
1	6	233	GLN
1	6	304	ASN
1	6	428	HIS
1	6	495	GLN
1	6	497	ASN
1	6	527	HIS
1	6	546	GLN
1	6	584	HIS
1	6	585	GLN
1	6	624	HIS
1	6	646	GLN
1	6	673	GLN
1	6	710	ASN
1	a	233	GLN
1	a	304	ASN
1	a	428	HIS
1	a	495	GLN
1	a	497	ASN
1	a	527	HIS
1	a	546	GLN
1	a	584	HIS

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Mol	Chain	Res	Type
1	a	585	GLN
1	a	624	HIS
1	a	646	GLN
1	a	673	GLN
1	a	710	ASN
1	b	233	GLN
1	b	304	ASN
1	b	428	HIS
1	b	495	GLN
1	b	497	ASN
1	b	527	HIS
1	b	546	GLN
1	b	584	HIS
1	b	585	GLN
1	b	624	HIS
1	b	646	GLN
1	b	673	GLN
1	b	710	ASN
1	c	233	GLN
1	c	304	ASN
1	c	428	HIS
1	c	495	GLN
1	c	497	ASN
1	c	527	HIS
1	c	546	GLN
1	c	585	GLN
1	c	624	HIS
1	c	646	GLN
1	c	673	GLN
1	c	710	ASN
1	d	233	GLN
1	d	304	ASN
1	d	428	HIS
1	d	495	GLN
1	d	497	ASN
1	d	527	HIS
1	d	546	GLN
1	d	584	HIS
1	d	585	GLN
1	d	624	HIS
1	d	646	GLN
1	d	673	GLN

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Mol	Chain	Res	Type
1	d	710	ASN
1	e	233	GLN
1	e	304	ASN
1	e	428	HIS
1	e	495	GLN
1	e	497	ASN
1	e	527	HIS
1	e	546	GLN
1	e	585	GLN
1	e	624	HIS
1	e	646	GLN
1	e	673	GLN
1	e	710	ASN
1	f	233	GLN
1	f	304	ASN
1	f	428	HIS
1	f	495	GLN
1	f	497	ASN
1	f	527	HIS
1	f	546	GLN
1	f	584	HIS
1	f	585	GLN
1	f	624	HIS
1	f	646	GLN
1	f	673	GLN
1	f	710	ASN
1	g	233	GLN
1	g	304	ASN
1	g	428	HIS
1	g	495	GLN
1	g	497	ASN
1	g	527	HIS
1	g	546	GLN
1	g	584	HIS
1	g	585	GLN
1	g	624	HIS
1	g	646	GLN
1	g	673	GLN
1	h	233	GLN
1	h	304	ASN
1	h	428	HIS
1	h	495	GLN

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Mol	Chain	Res	Type
1	h	497	ASN
1	h	527	HIS
1	h	546	GLN
1	h	585	GLN
1	h	624	HIS
1	h	646	GLN
1	h	673	GLN
1	h	710	ASN
1	i	233	GLN
1	i	304	ASN
1	i	428	HIS
1	i	495	GLN
1	i	497	ASN
1	i	527	HIS
1	i	546	GLN
1	i	584	HIS
1	i	585	GLN
1	i	624	HIS
1	i	646	GLN
1	i	673	GLN
1	j	233	GLN
1	j	304	ASN
1	j	428	HIS
1	j	495	GLN
1	j	497	ASN
1	j	527	HIS
1	j	546	GLN
1	j	584	HIS
1	j	585	GLN
1	j	624	HIS
1	j	646	GLN
1	j	673	GLN
1	j	710	ASN
1	k	233	GLN
1	k	304	ASN
1	k	428	HIS
1	k	495	GLN
1	k	497	ASN
1	k	527	HIS
1	k	546	GLN
1	k	584	HIS
1	k	585	GLN

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Mol	Chain	Res	Type
1	k	624	HIS
1	k	646	GLN
1	k	673	GLN
1	k	710	ASN
1	l	233	GLN
1	l	304	ASN
1	l	428	HIS
1	l	495	GLN
1	l	497	ASN
1	l	527	HIS
1	l	546	GLN
1	l	584	HIS
1	l	585	GLN
1	l	624	HIS
1	l	646	GLN
1	l	673	GLN
1	l	710	ASN
1	m	233	GLN
1	m	304	ASN
1	m	428	HIS
1	m	495	GLN
1	m	497	ASN
1	m	527	HIS
1	m	546	GLN
1	m	584	HIS
1	m	585	GLN
1	m	624	HIS
1	m	646	GLN
1	m	673	GLN
1	m	710	ASN
1	n	233	GLN
1	n	304	ASN
1	n	428	HIS
1	n	495	GLN
1	n	497	ASN
1	n	527	HIS
1	n	546	GLN
1	n	584	HIS
1	n	585	GLN
1	n	624	HIS
1	n	646	GLN
1	n	673	GLN

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Mol	Chain	Res	Type
1	n	710	ASN
1	o	233	GLN
1	o	304	ASN
1	o	428	HIS
1	o	495	GLN
1	o	497	ASN
1	o	527	HIS
1	o	546	GLN
1	o	584	HIS
1	o	585	GLN
1	o	624	HIS
1	o	646	GLN
1	o	673	GLN
1	o	710	ASN
1	p	233	GLN
1	p	304	ASN
1	p	428	HIS
1	p	495	GLN
1	p	497	ASN
1	p	527	HIS
1	p	546	GLN
1	p	584	HIS
1	p	585	GLN
1	p	624	HIS
1	p	646	GLN
1	p	673	GLN
1	q	233	GLN
1	q	304	ASN
1	q	428	HIS
1	q	495	GLN
1	q	497	ASN
1	q	527	HIS
1	q	546	GLN
1	q	584	HIS
1	q	585	GLN
1	q	624	HIS
1	q	646	GLN
1	q	673	GLN
1	r	233	GLN
1	r	304	ASN
1	r	428	HIS
1	r	495	GLN

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Mol	Chain	Res	Type
1	r	497	ASN
1	r	527	HIS
1	r	546	GLN
1	r	585	GLN
1	r	624	HIS
1	r	646	GLN
1	r	673	GLN
1	s	233	GLN
1	s	304	ASN
1	s	428	HIS
1	s	495	GLN
1	s	497	ASN
1	s	527	HIS
1	s	546	GLN
1	s	584	HIS
1	s	585	GLN
1	s	624	HIS
1	s	646	GLN
1	s	673	GLN
1	s	710	ASN
1	t	233	GLN
1	t	304	ASN
1	t	428	HIS
1	t	495	GLN
1	t	497	ASN
1	t	527	HIS
1	t	546	GLN
1	t	584	HIS
1	t	585	GLN
1	t	624	HIS
1	t	646	GLN
1	t	673	GLN
1	t	710	ASN
1	u	233	GLN
1	u	304	ASN
1	u	428	HIS
1	u	495	GLN
1	u	497	ASN
1	u	527	HIS
1	u	546	GLN
1	u	584	HIS
1	u	585	GLN

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Mol	Chain	Res	Type
1	u	624	HIS
1	u	646	GLN
1	u	673	GLN
1	u	710	ASN
1	v	233	GLN
1	v	304	ASN
1	v	428	HIS
1	v	495	GLN
1	v	497	ASN
1	v	527	HIS
1	v	546	GLN
1	v	584	HIS
1	v	585	GLN
1	v	624	HIS
1	v	646	GLN
1	v	673	GLN
1	v	710	ASN
1	w	233	GLN
1	w	304	ASN
1	w	428	HIS
1	w	495	GLN
1	w	497	ASN
1	w	527	HIS
1	w	546	GLN
1	w	584	HIS
1	w	585	GLN
1	w	624	HIS
1	w	646	GLN
1	w	673	GLN
1	x	233	GLN
1	x	304	ASN
1	x	428	HIS
1	x	495	GLN
1	x	497	ASN
1	x	527	HIS
1	x	546	GLN
1	x	584	HIS
1	x	585	GLN
1	x	624	HIS
1	x	646	GLN
1	x	673	GLN
1	x	710	ASN

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Mol	Chain	Res	Type
1	y	233	GLN
1	y	304	ASN
1	y	428	HIS
1	y	495	GLN
1	y	497	ASN
1	y	527	HIS
1	y	546	GLN
1	y	585	GLN
1	y	624	HIS
1	y	646	GLN
1	y	673	GLN
1	y	710	ASN
1	z	233	GLN
1	z	304	ASN
1	z	428	HIS
1	z	495	GLN
1	z	497	ASN
1	z	527	HIS
1	z	546	GLN
1	z	584	HIS
1	z	585	GLN
1	z	624	HIS
1	z	646	GLN
1	z	673	GLN
1	z	710	ASN
1	7	233	GLN
1	7	304	ASN
1	7	428	HIS
1	7	495	GLN
1	7	497	ASN
1	7	527	HIS
1	7	546	GLN
1	7	584	HIS
1	7	585	GLN
1	7	624	HIS
1	7	646	GLN
1	7	673	GLN
1	7	710	ASN
1	8	233	GLN
1	8	304	ASN
1	8	428	HIS
1	8	495	GLN

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Mol	Chain	Res	Type
1	8	497	ASN
1	8	527	HIS
1	8	546	GLN
1	8	584	HIS
1	8	585	GLN
1	8	624	HIS
1	8	646	GLN
1	8	673	GLN
1	8	710	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

60 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	GAL	5	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	g	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	w	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	c	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	W	801	-	12,12,12	0.49	0	17,17,17	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	GAL	d	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	R	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	L	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	a	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	7	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	K	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	Q	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	u	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	E	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	2	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	P	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	X	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	4	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	o	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	j	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	D	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	z	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	U	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	J	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	Z	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	b	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	l	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	T	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	3	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	M	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	V	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	N	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	h	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	m	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	r	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	C	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	G	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	1	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	B	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	k	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	t	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	F	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	v	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	6	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	q	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	s	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	y	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	e	801	-	12,12,12	0.49	0	17,17,17	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	GAL	x	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	f	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	i	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	p	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	I	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	n	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	Y	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	8	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	A	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	H	801	-	12,12,12	0.49	0	17,17,17	0.85	0
2	GAL	S	801	-	12,12,12	0.50	0	17,17,17	0.85	0
2	GAL	O	801	-	12,12,12	0.50	0	17,17,17	0.85	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GAL	5	801	-	-	1/2/22/22	0/1/1/1
2	GAL	g	801	-	-	1/2/22/22	0/1/1/1
2	GAL	w	801	-	-	1/2/22/22	0/1/1/1
2	GAL	c	801	-	-	1/2/22/22	0/1/1/1
2	GAL	W	801	-	-	1/2/22/22	0/1/1/1
2	GAL	d	801	-	-	1/2/22/22	0/1/1/1
2	GAL	R	801	-	-	1/2/22/22	0/1/1/1
2	GAL	L	801	-	-	1/2/22/22	0/1/1/1
2	GAL	a	801	-	-	1/2/22/22	0/1/1/1
2	GAL	7	801	-	-	1/2/22/22	0/1/1/1
2	GAL	K	801	-	-	1/2/22/22	0/1/1/1
2	GAL	Q	801	-	-	1/2/22/22	0/1/1/1
2	GAL	u	801	-	-	1/2/22/22	0/1/1/1
2	GAL	E	801	-	-	1/2/22/22	0/1/1/1
2	GAL	2	801	-	-	1/2/22/22	0/1/1/1
2	GAL	P	801	-	-	1/2/22/22	0/1/1/1
2	GAL	X	801	-	-	1/2/22/22	0/1/1/1
2	GAL	4	801	-	-	1/2/22/22	0/1/1/1
2	GAL	o	801	-	-	1/2/22/22	0/1/1/1
2	GAL	j	801	-	-	1/2/22/22	0/1/1/1
2	GAL	D	801	-	-	1/2/22/22	0/1/1/1
2	GAL	z	801	-	-	1/2/22/22	0/1/1/1
2	GAL	U	801	-	-	1/2/22/22	0/1/1/1
2	GAL	J	801	-	-	1/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GAL	Z	801	-	-	1/2/22/22	0/1/1/1
2	GAL	b	801	-	-	1/2/22/22	0/1/1/1
2	GAL	l	801	-	-	1/2/22/22	0/1/1/1
2	GAL	T	801	-	-	1/2/22/22	0/1/1/1
2	GAL	3	801	-	-	1/2/22/22	0/1/1/1
2	GAL	M	801	-	-	1/2/22/22	0/1/1/1
2	GAL	V	801	-	-	1/2/22/22	0/1/1/1
2	GAL	N	801	-	-	1/2/22/22	0/1/1/1
2	GAL	h	801	-	-	1/2/22/22	0/1/1/1
2	GAL	m	801	-	-	1/2/22/22	0/1/1/1
2	GAL	r	801	-	-	1/2/22/22	0/1/1/1
2	GAL	C	801	-	-	1/2/22/22	0/1/1/1
2	GAL	G	801	-	-	1/2/22/22	0/1/1/1
2	GAL	1	801	-	-	1/2/22/22	0/1/1/1
2	GAL	B	801	-	-	1/2/22/22	0/1/1/1
2	GAL	k	801	-	-	1/2/22/22	0/1/1/1
2	GAL	t	801	-	-	1/2/22/22	0/1/1/1
2	GAL	F	801	-	-	1/2/22/22	0/1/1/1
2	GAL	v	801	-	-	1/2/22/22	0/1/1/1
2	GAL	6	801	-	-	1/2/22/22	0/1/1/1
2	GAL	q	801	-	-	1/2/22/22	0/1/1/1
2	GAL	s	801	-	-	1/2/22/22	0/1/1/1
2	GAL	y	801	-	-	1/2/22/22	0/1/1/1
2	GAL	e	801	-	-	1/2/22/22	0/1/1/1
2	GAL	x	801	-	-	1/2/22/22	0/1/1/1
2	GAL	f	801	-	-	1/2/22/22	0/1/1/1
2	GAL	i	801	-	-	1/2/22/22	0/1/1/1
2	GAL	p	801	-	-	1/2/22/22	0/1/1/1
2	GAL	I	801	-	-	1/2/22/22	0/1/1/1
2	GAL	n	801	-	-	1/2/22/22	0/1/1/1
2	GAL	Y	801	-	-	1/2/22/22	0/1/1/1
2	GAL	8	801	-	-	1/2/22/22	0/1/1/1
2	GAL	A	801	-	-	1/2/22/22	0/1/1/1
2	GAL	H	801	-	-	1/2/22/22	0/1/1/1
2	GAL	S	801	-	-	1/2/22/22	0/1/1/1
2	GAL	O	801	-	-	1/2/22/22	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (60) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	GAL	O5-C5-C6-O6
2	B	801	GAL	O5-C5-C6-O6
2	D	801	GAL	O5-C5-C6-O6
2	E	801	GAL	O5-C5-C6-O6
2	F	801	GAL	O5-C5-C6-O6
2	G	801	GAL	O5-C5-C6-O6
2	H	801	GAL	O5-C5-C6-O6
2	I	801	GAL	O5-C5-C6-O6
2	J	801	GAL	O5-C5-C6-O6
2	K	801	GAL	O5-C5-C6-O6
2	L	801	GAL	O5-C5-C6-O6
2	M	801	GAL	O5-C5-C6-O6
2	N	801	GAL	O5-C5-C6-O6
2	P	801	GAL	O5-C5-C6-O6
2	Q	801	GAL	O5-C5-C6-O6
2	R	801	GAL	O5-C5-C6-O6
2	S	801	GAL	O5-C5-C6-O6
2	T	801	GAL	O5-C5-C6-O6
2	U	801	GAL	O5-C5-C6-O6
2	X	801	GAL	O5-C5-C6-O6
2	Y	801	GAL	O5-C5-C6-O6
2	Z	801	GAL	O5-C5-C6-O6
2	1	801	GAL	O5-C5-C6-O6
2	2	801	GAL	O5-C5-C6-O6
2	3	801	GAL	O5-C5-C6-O6
2	4	801	GAL	O5-C5-C6-O6
2	5	801	GAL	O5-C5-C6-O6
2	6	801	GAL	O5-C5-C6-O6
2	b	801	GAL	O5-C5-C6-O6
2	c	801	GAL	O5-C5-C6-O6
2	d	801	GAL	O5-C5-C6-O6
2	e	801	GAL	O5-C5-C6-O6
2	f	801	GAL	O5-C5-C6-O6
2	g	801	GAL	O5-C5-C6-O6
2	h	801	GAL	O5-C5-C6-O6
2	i	801	GAL	O5-C5-C6-O6
2	k	801	GAL	O5-C5-C6-O6
2	l	801	GAL	O5-C5-C6-O6
2	m	801	GAL	O5-C5-C6-O6
2	n	801	GAL	O5-C5-C6-O6
2	o	801	GAL	O5-C5-C6-O6
2	p	801	GAL	O5-C5-C6-O6
2	q	801	GAL	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	r	801	GAL	O5-C5-C6-O6
2	s	801	GAL	O5-C5-C6-O6
2	t	801	GAL	O5-C5-C6-O6
2	u	801	GAL	O5-C5-C6-O6
2	v	801	GAL	O5-C5-C6-O6
2	w	801	GAL	O5-C5-C6-O6
2	x	801	GAL	O5-C5-C6-O6
2	y	801	GAL	O5-C5-C6-O6
2	7	801	GAL	O5-C5-C6-O6
2	8	801	GAL	O5-C5-C6-O6
2	C	801	GAL	O5-C5-C6-O6
2	O	801	GAL	O5-C5-C6-O6
2	V	801	GAL	O5-C5-C6-O6
2	W	801	GAL	O5-C5-C6-O6
2	a	801	GAL	O5-C5-C6-O6
2	j	801	GAL	O5-C5-C6-O6
2	z	801	GAL	O5-C5-C6-O6

There are no ring outliers.

58 monomers are involved in 58 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	5	801	GAL	1	0
2	g	801	GAL	1	0
2	c	801	GAL	1	0
2	W	801	GAL	1	0
2	d	801	GAL	1	0
2	R	801	GAL	1	0
2	L	801	GAL	1	0
2	a	801	GAL	1	0
2	7	801	GAL	1	0
2	K	801	GAL	1	0
2	Q	801	GAL	1	0
2	u	801	GAL	1	0
2	E	801	GAL	1	0
2	2	801	GAL	1	0
2	P	801	GAL	1	0
2	X	801	GAL	1	0
2	4	801	GAL	1	0
2	o	801	GAL	1	0
2	j	801	GAL	1	0
2	D	801	GAL	1	0

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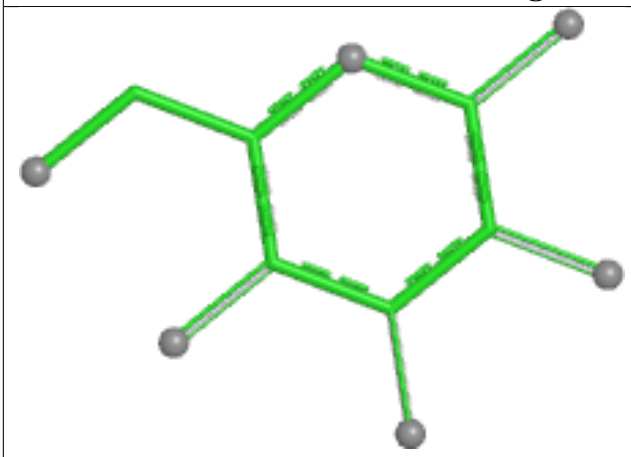
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	z	801	GAL	1	0
2	U	801	GAL	1	0
2	J	801	GAL	1	0
2	Z	801	GAL	1	0
2	b	801	GAL	1	0
2	l	801	GAL	1	0
2	T	801	GAL	1	0
2	3	801	GAL	1	0
2	M	801	GAL	1	0
2	V	801	GAL	1	0
2	N	801	GAL	1	0
2	h	801	GAL	1	0
2	m	801	GAL	1	0
2	r	801	GAL	1	0
2	C	801	GAL	1	0
2	G	801	GAL	1	0
2	B	801	GAL	1	0
2	k	801	GAL	1	0
2	t	801	GAL	1	0
2	F	801	GAL	1	0
2	v	801	GAL	1	0
2	6	801	GAL	1	0
2	q	801	GAL	1	0
2	s	801	GAL	1	0
2	y	801	GAL	1	0
2	e	801	GAL	1	0
2	x	801	GAL	1	0
2	f	801	GAL	1	0
2	i	801	GAL	1	0
2	p	801	GAL	1	0
2	I	801	GAL	1	0
2	n	801	GAL	1	0
2	Y	801	GAL	1	0
2	8	801	GAL	1	0
2	A	801	GAL	1	0
2	H	801	GAL	1	0
2	S	801	GAL	1	0
2	O	801	GAL	1	0

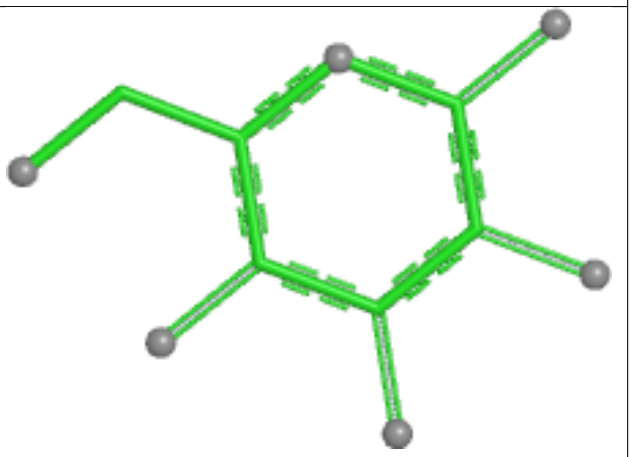
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is

within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

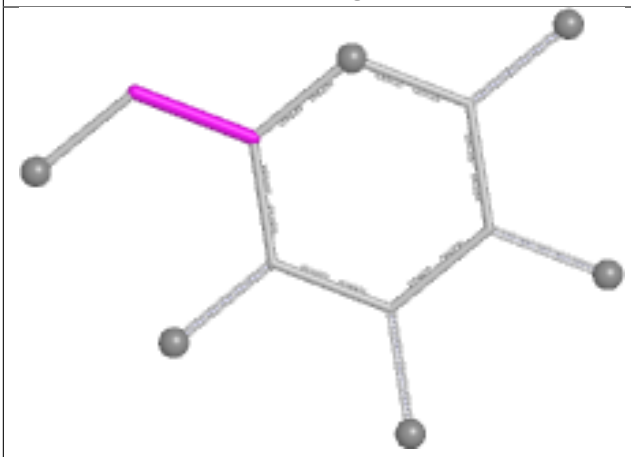
Ligand GAL 5 801



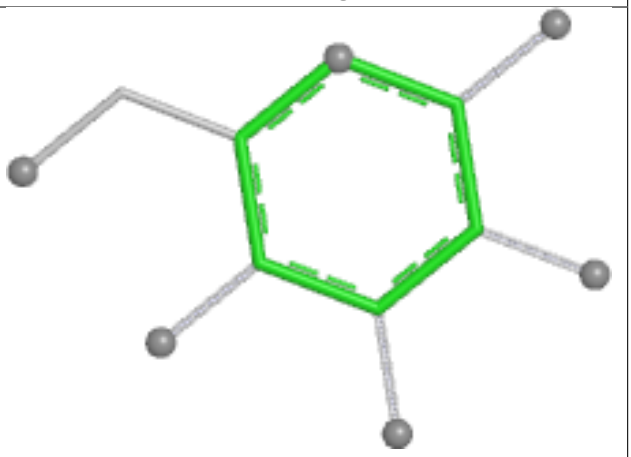
Bond lengths



Bond angles

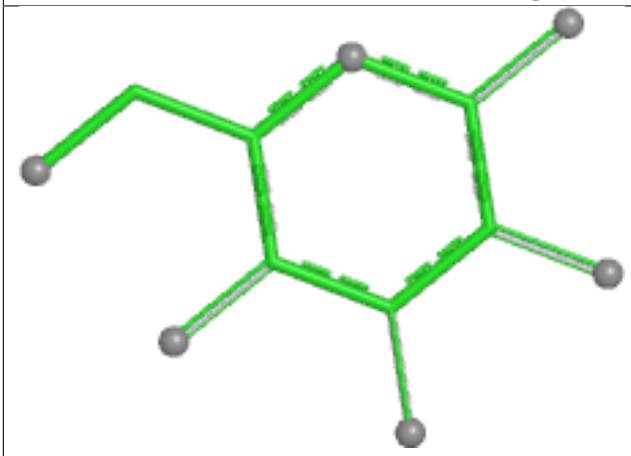


Torsions



Rings

Ligand GAL g 801



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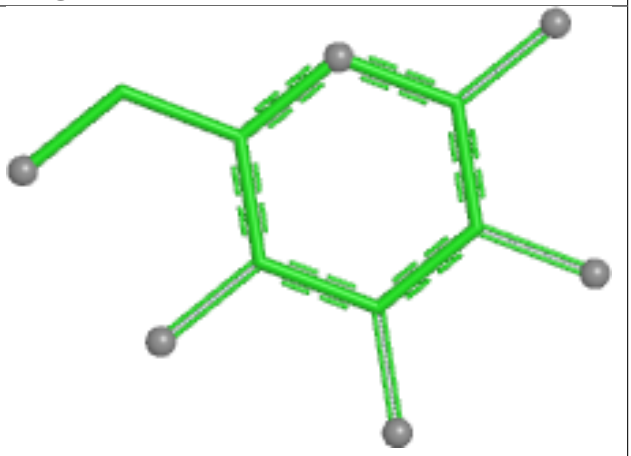

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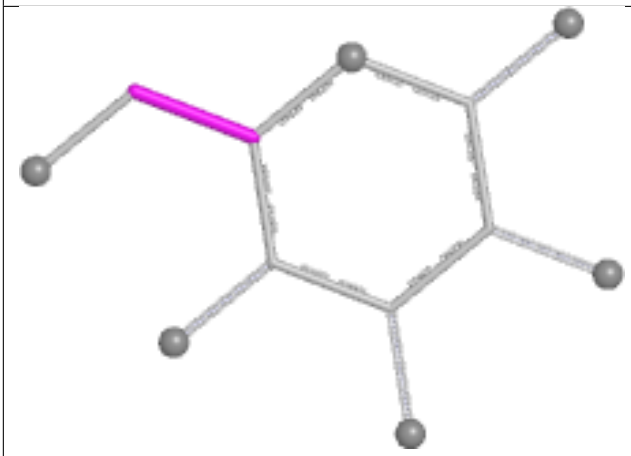

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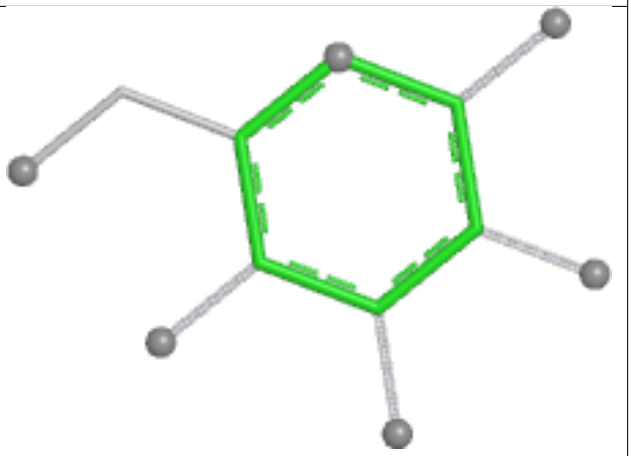
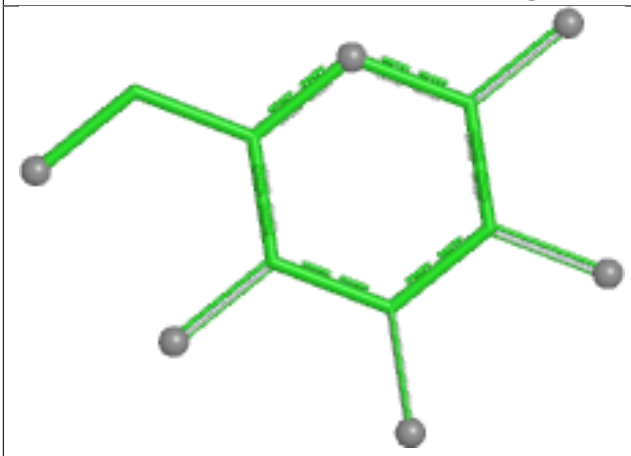


Rings

Ligand GAL w 801



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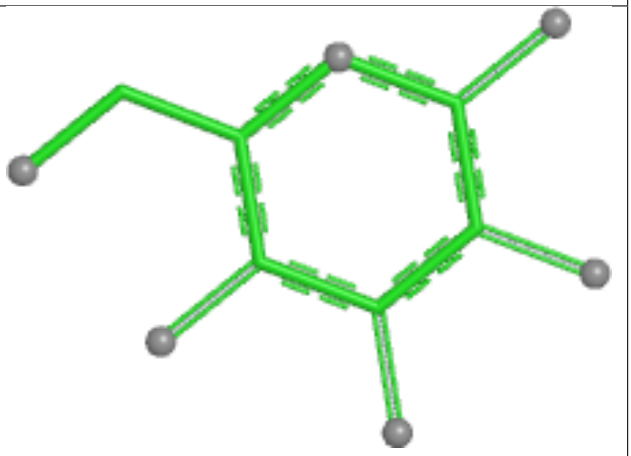

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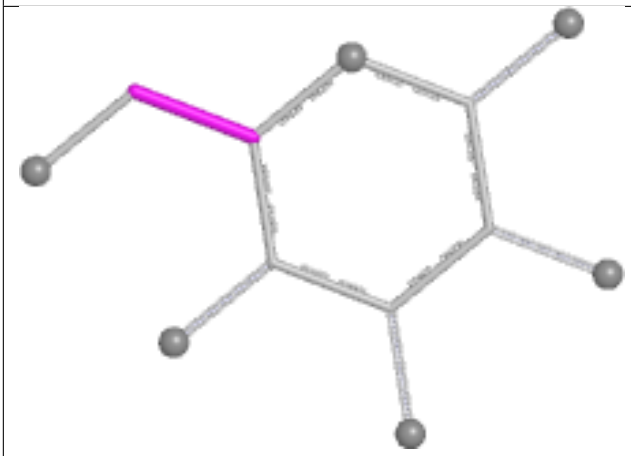

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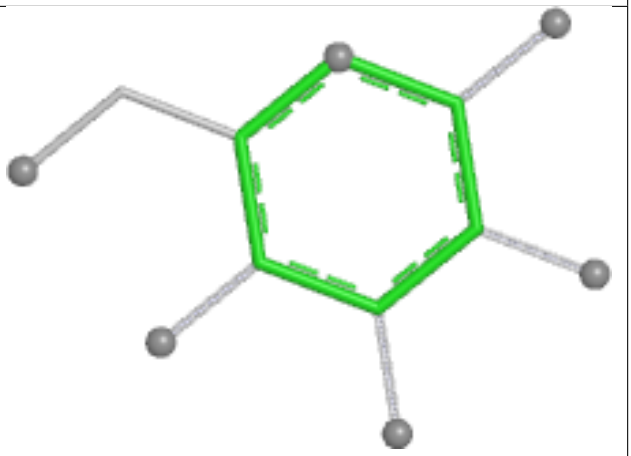

Rings

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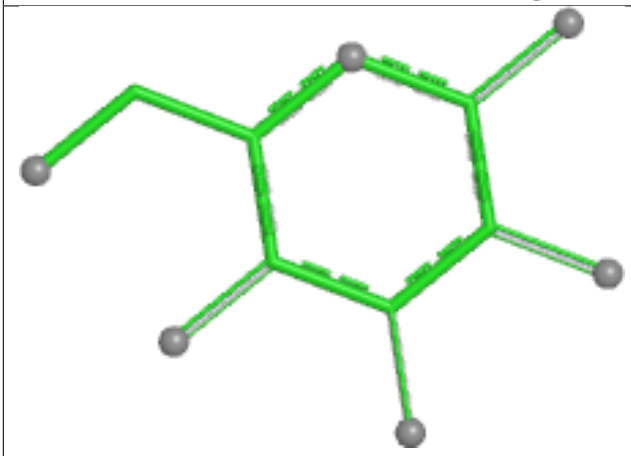

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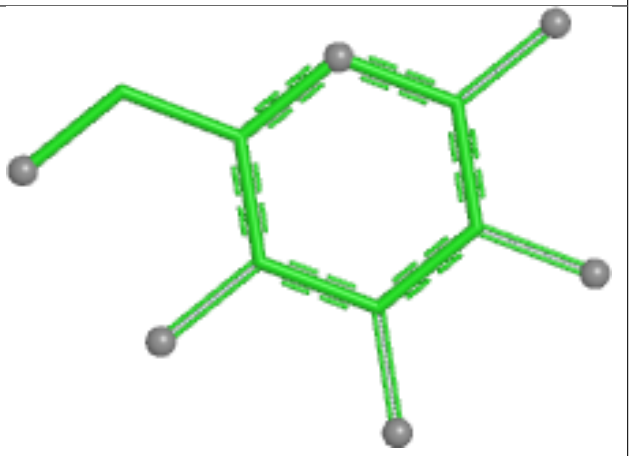

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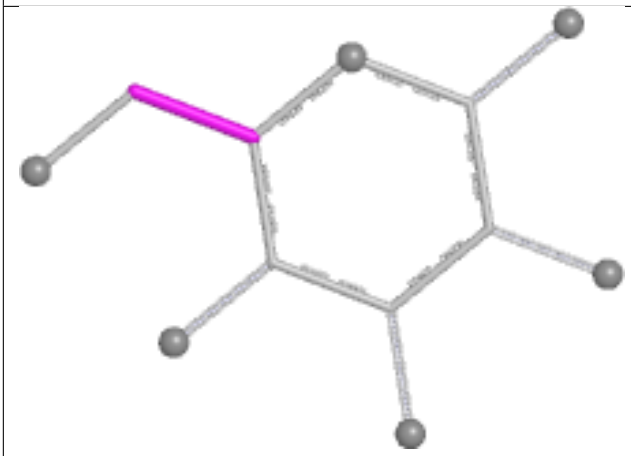

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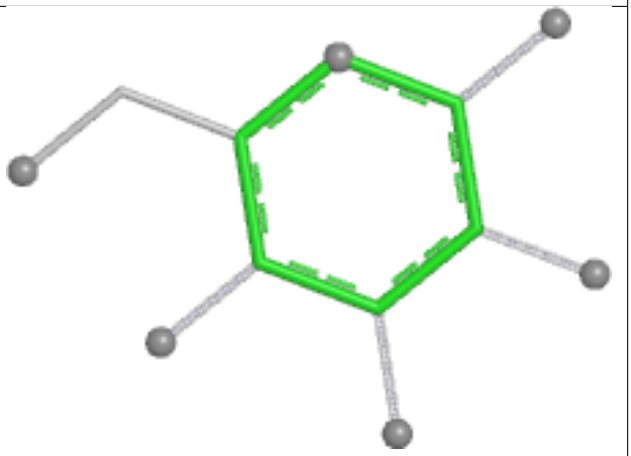

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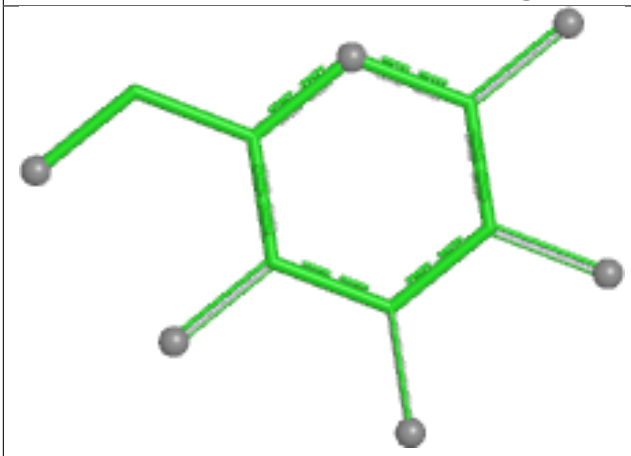

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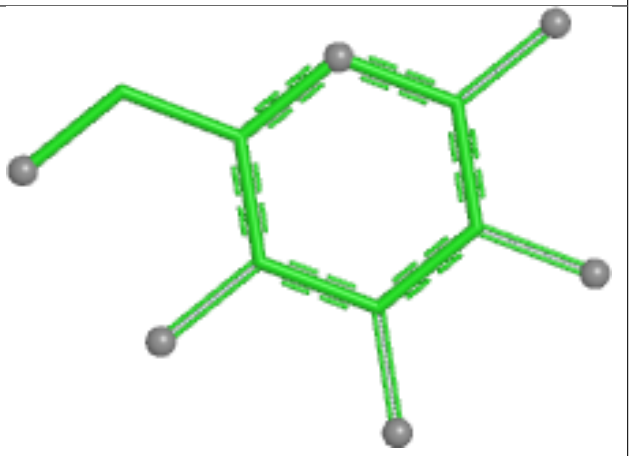

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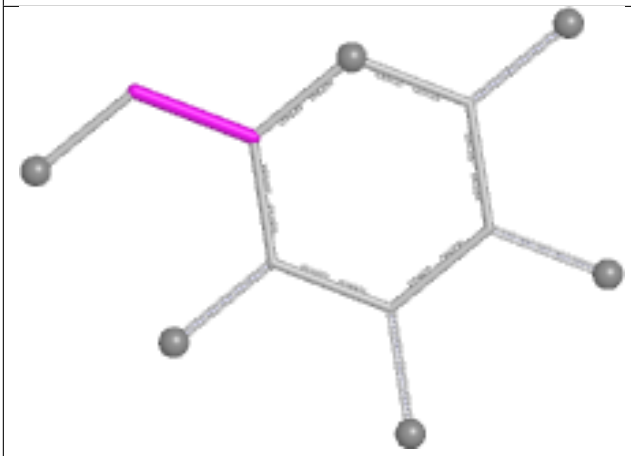

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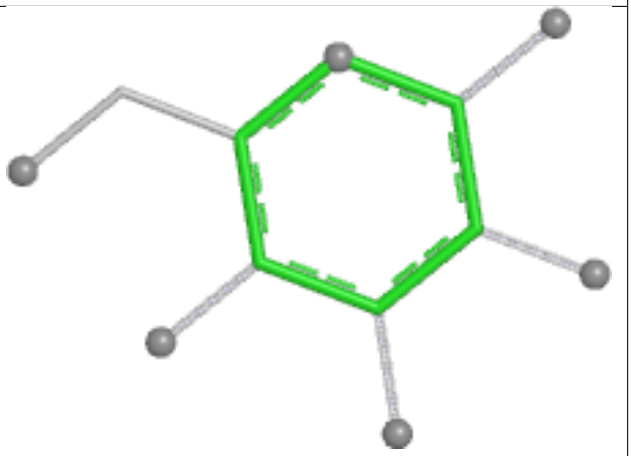

Rings

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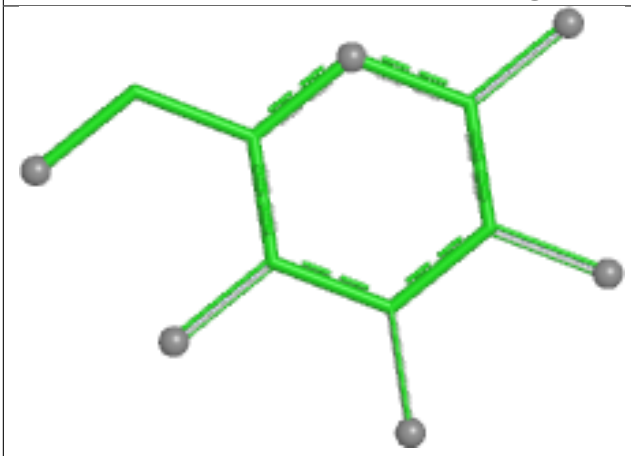

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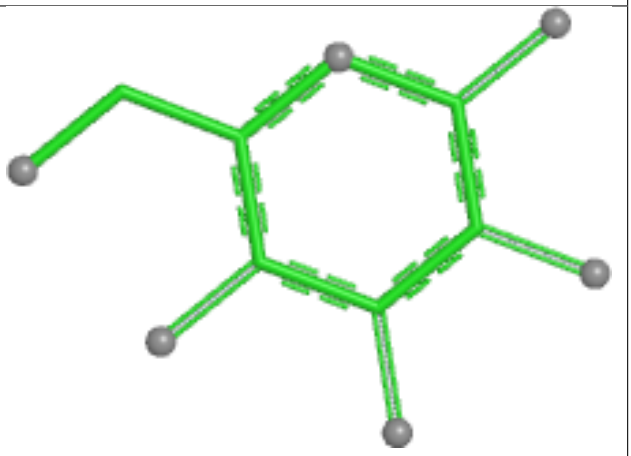

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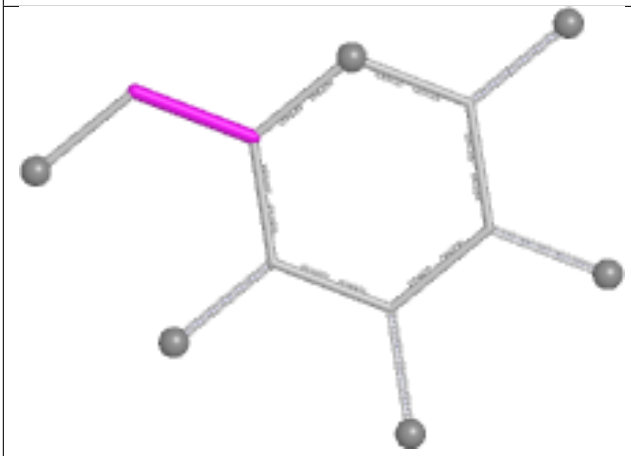

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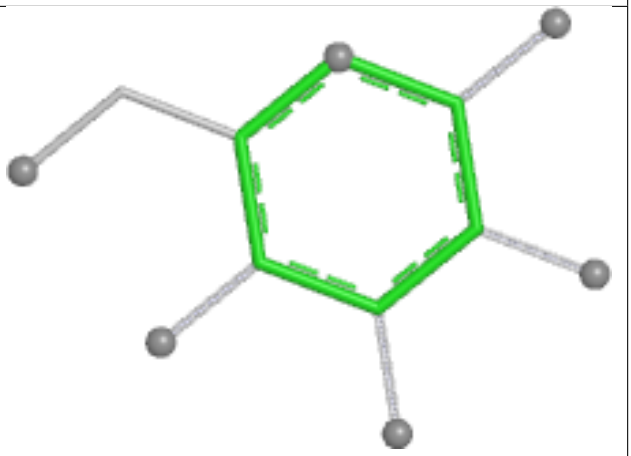

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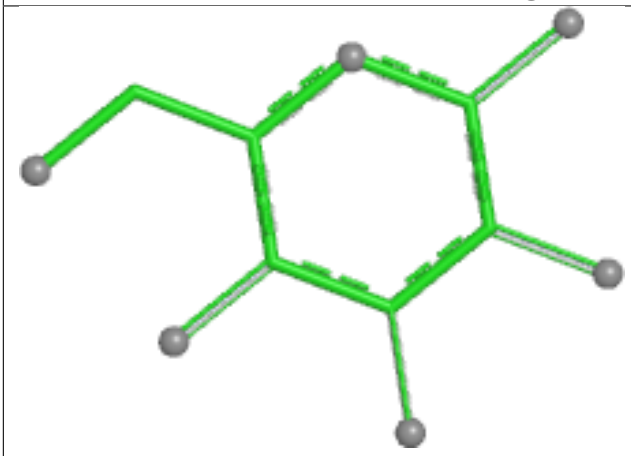

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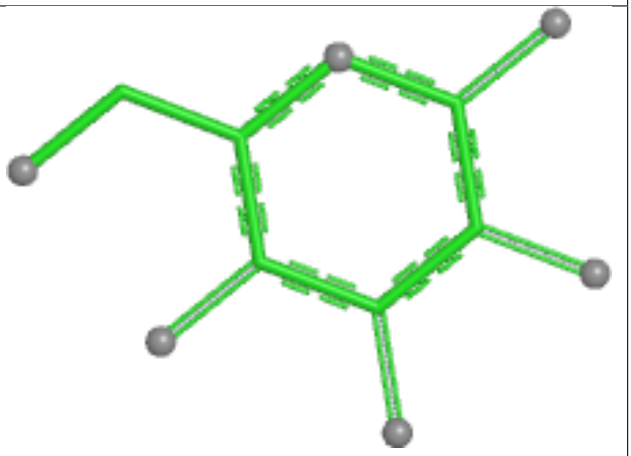

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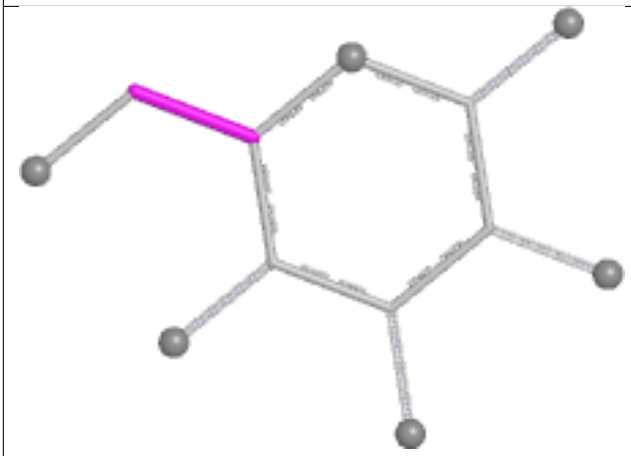

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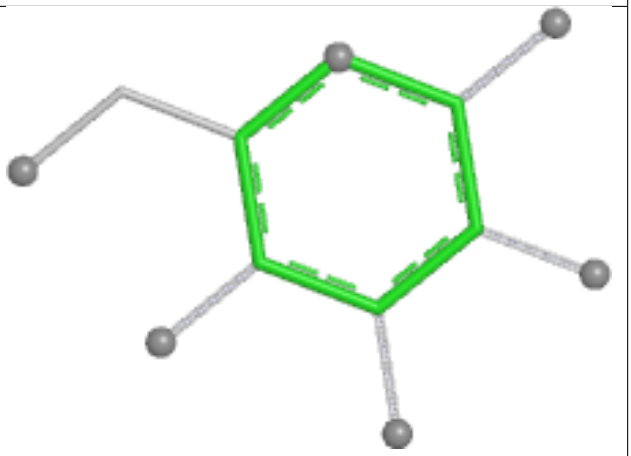

Rings

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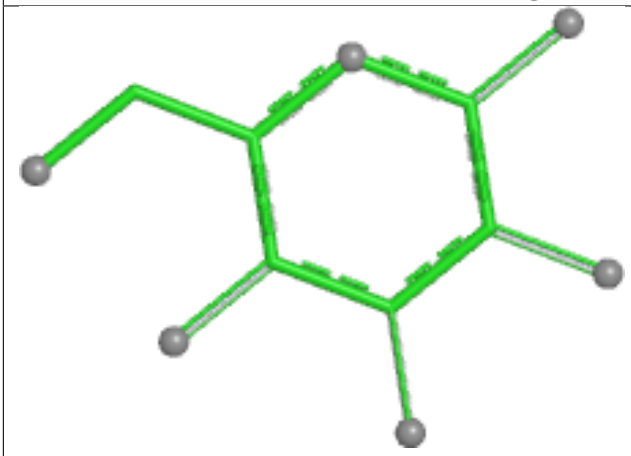

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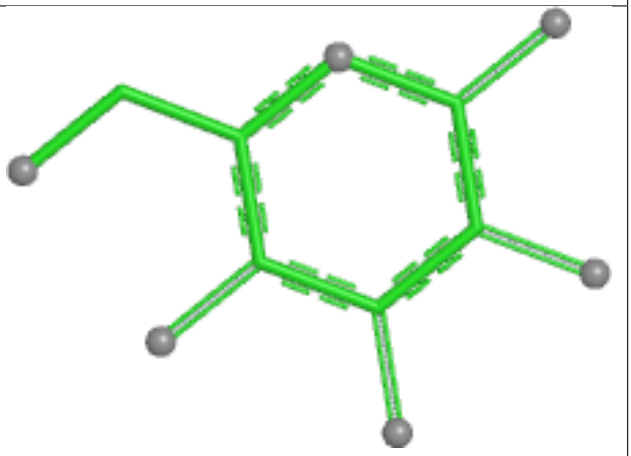

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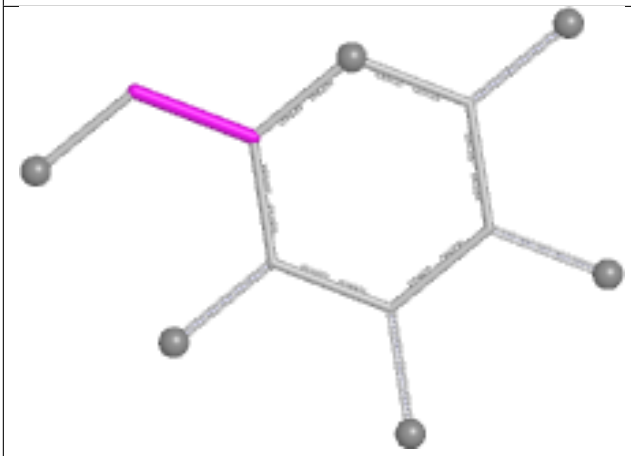

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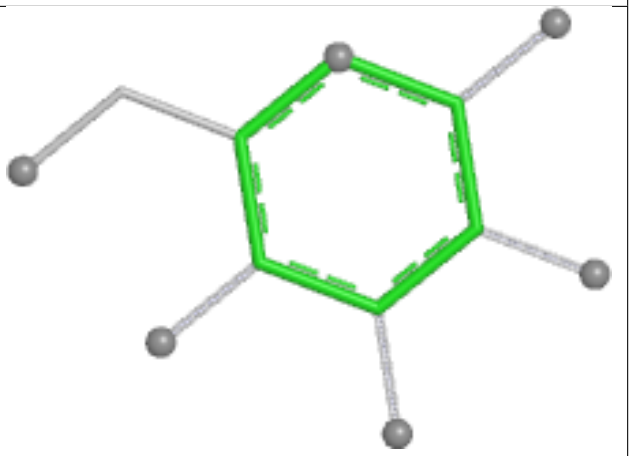

Rings

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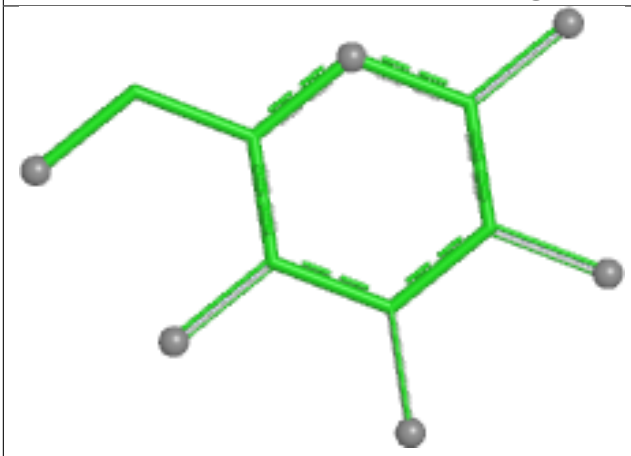

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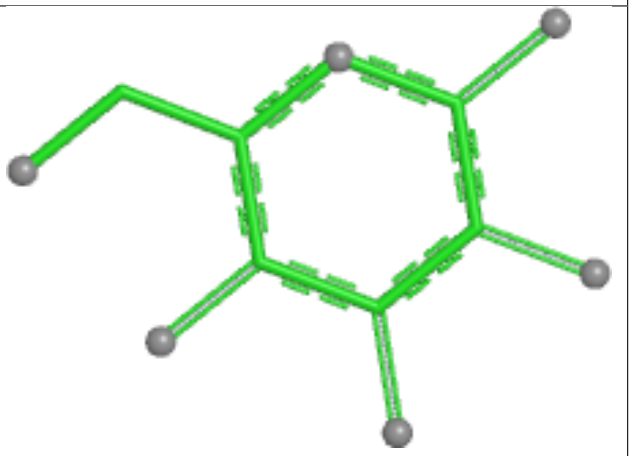

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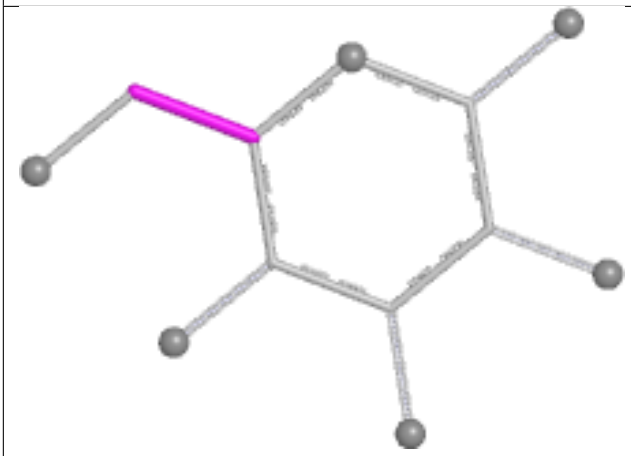

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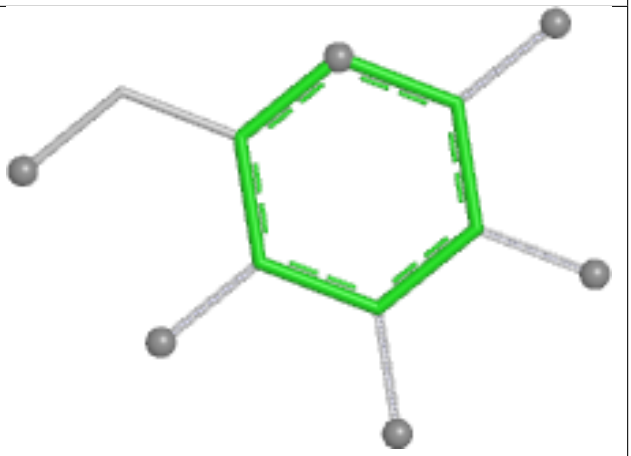

Rings

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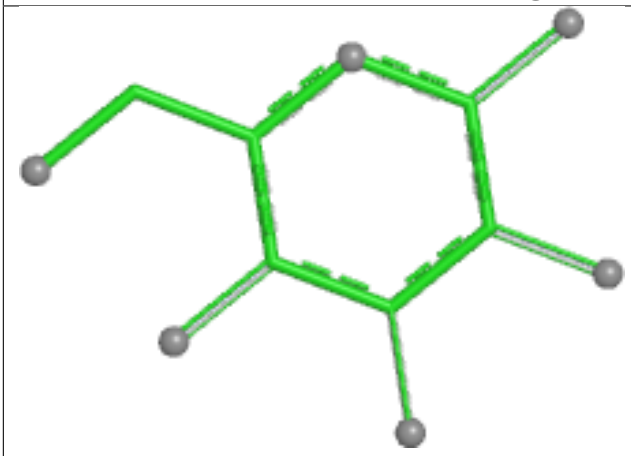

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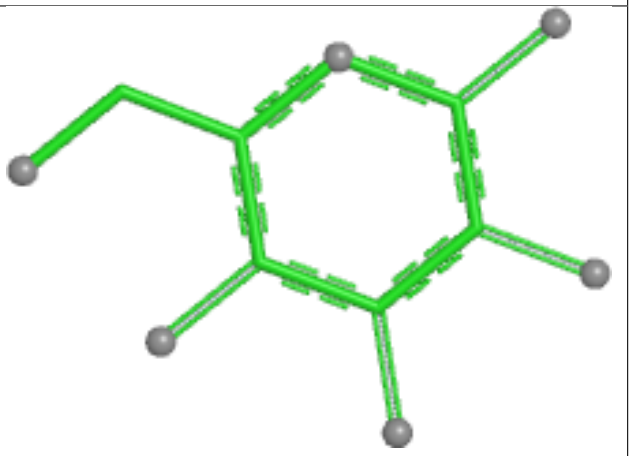

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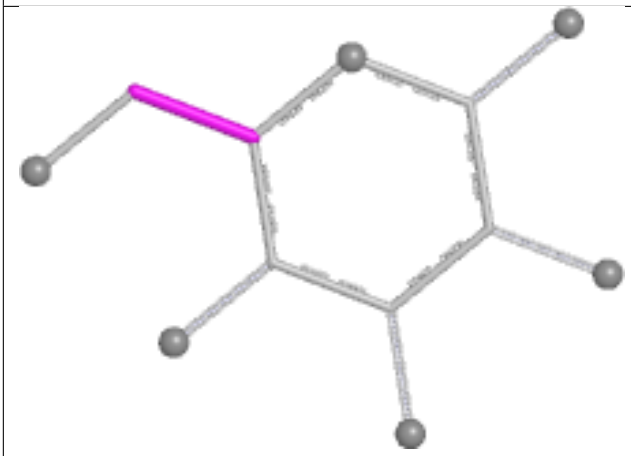

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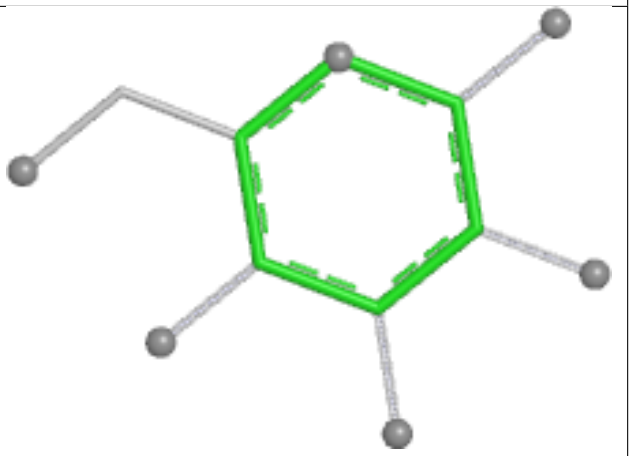

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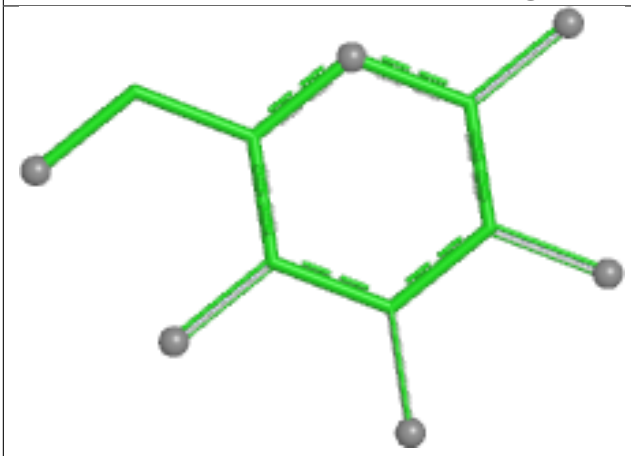

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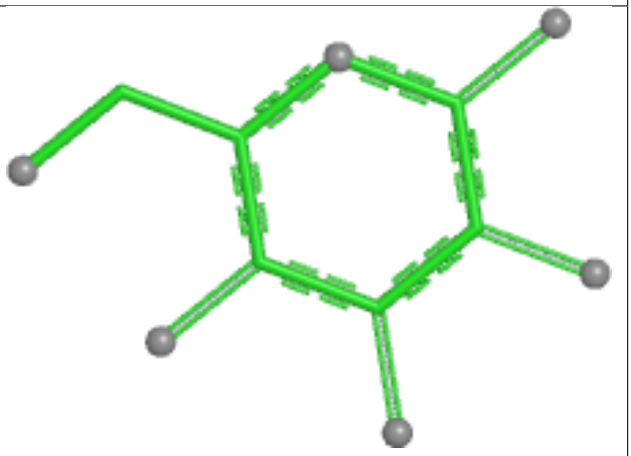

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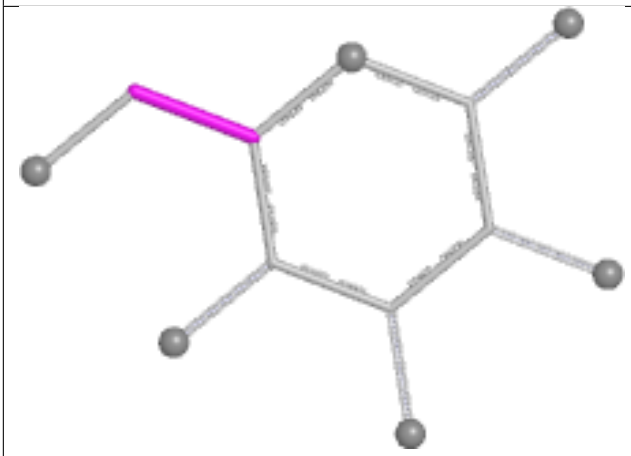

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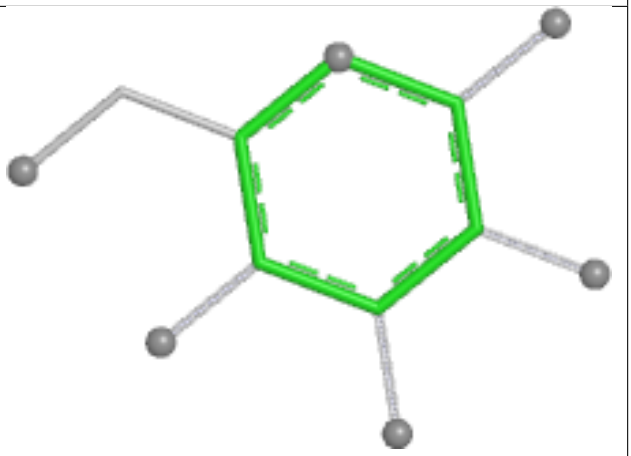

Rings

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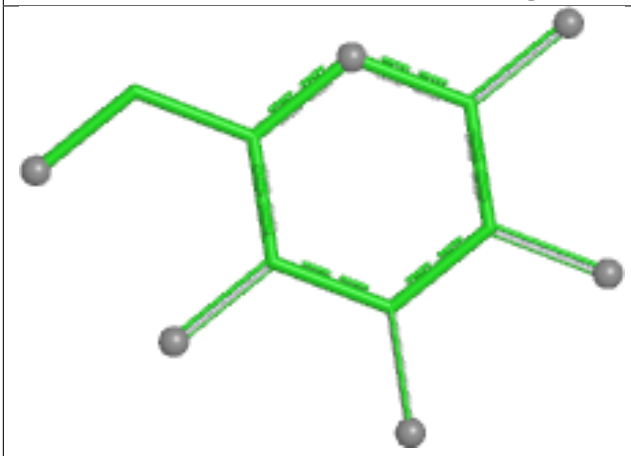

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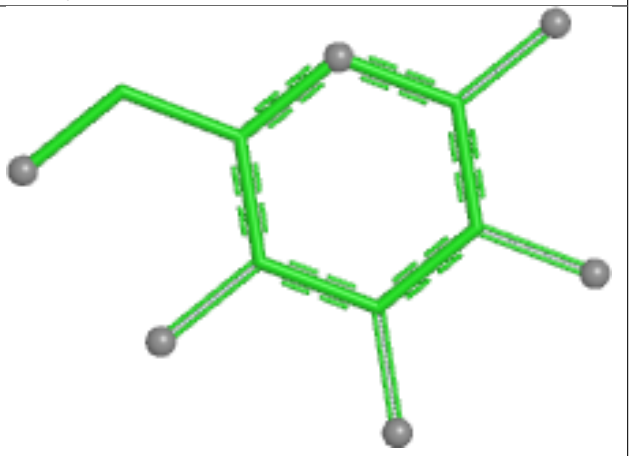

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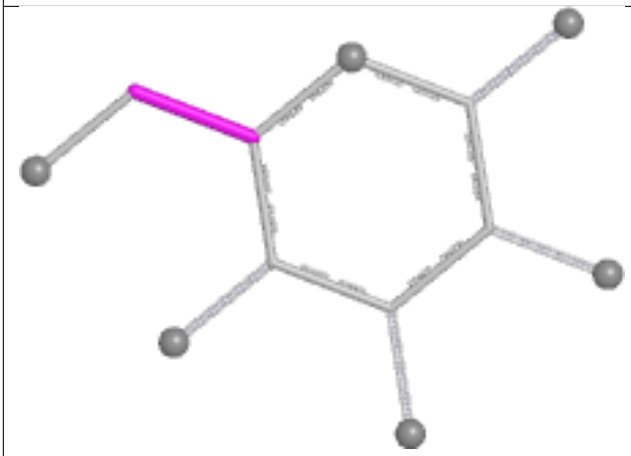

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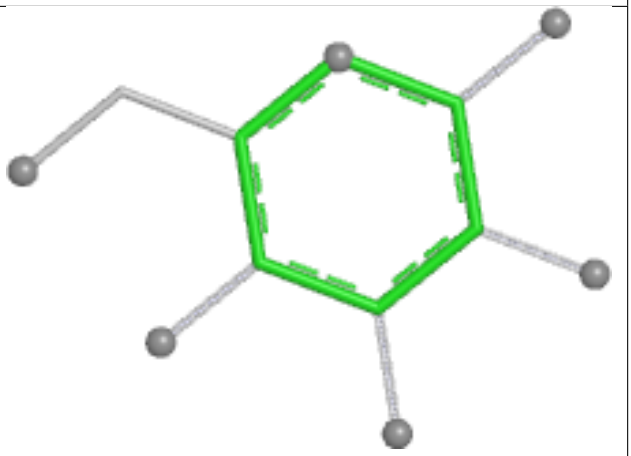

Rings

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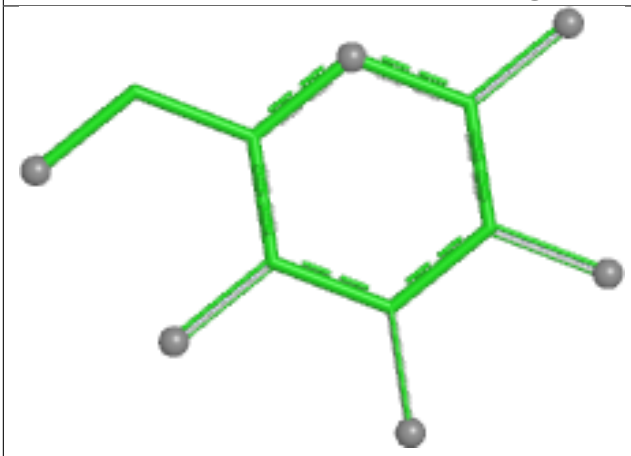

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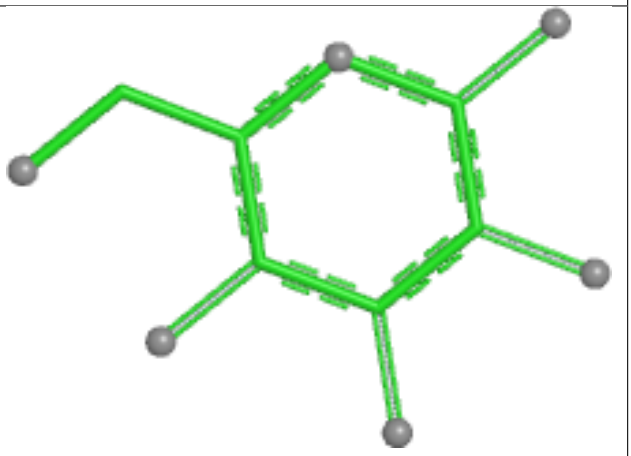

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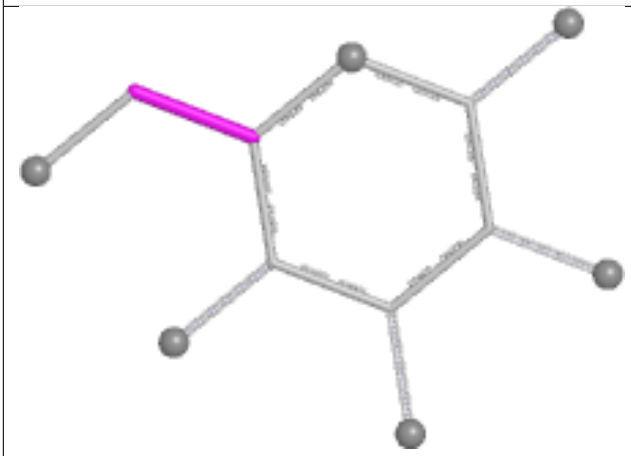

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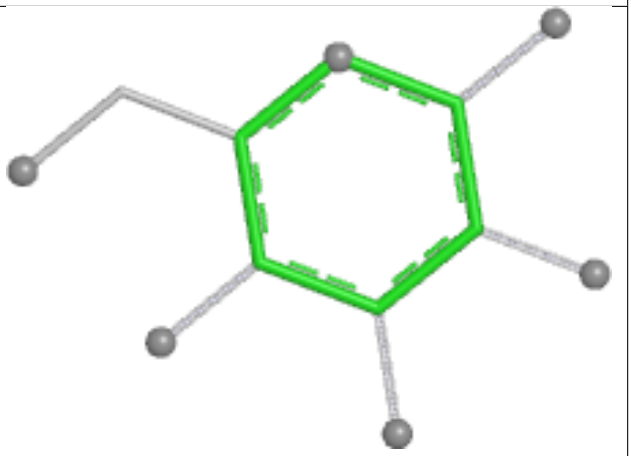

Rings

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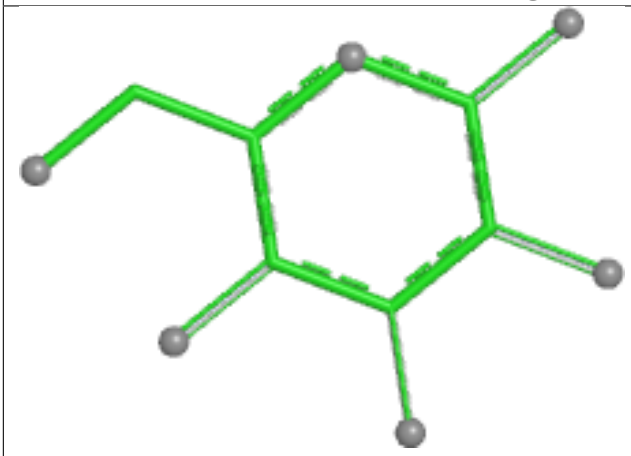

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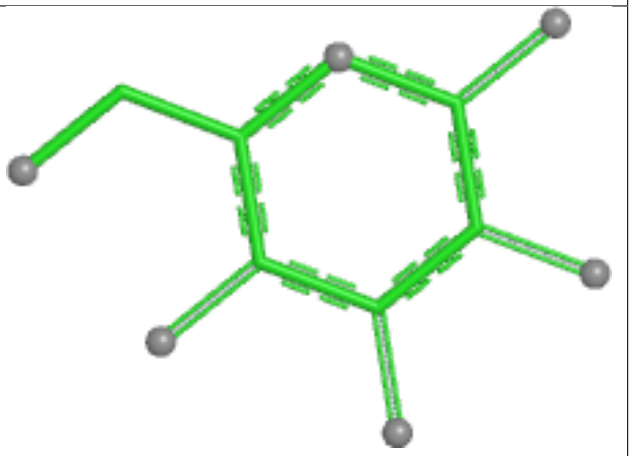

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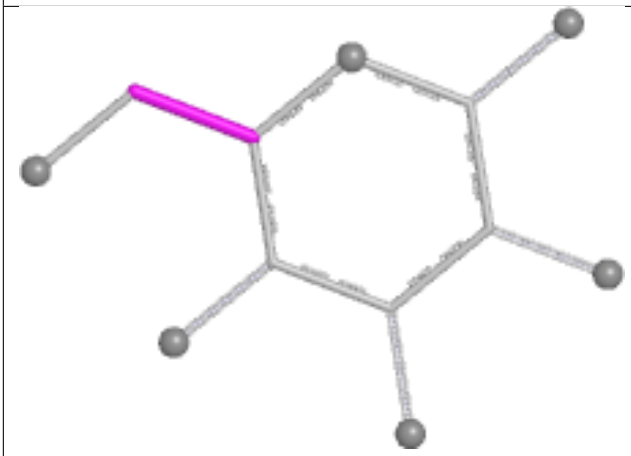

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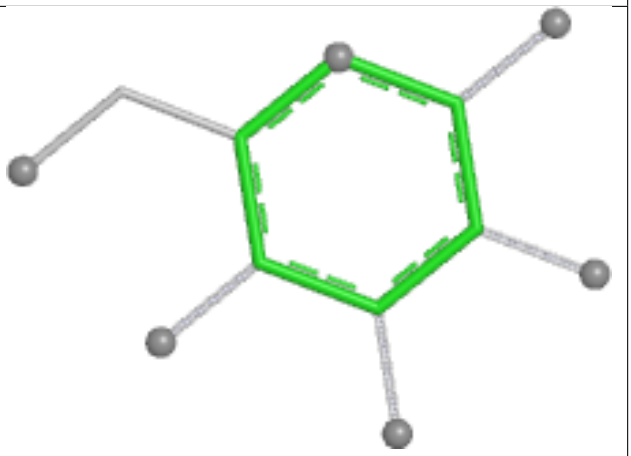

Rings

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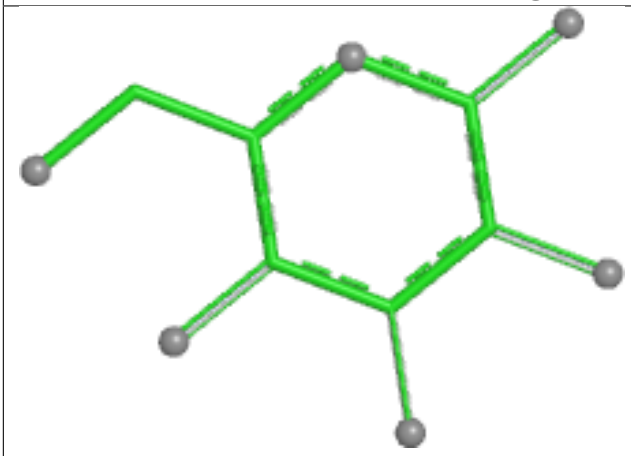

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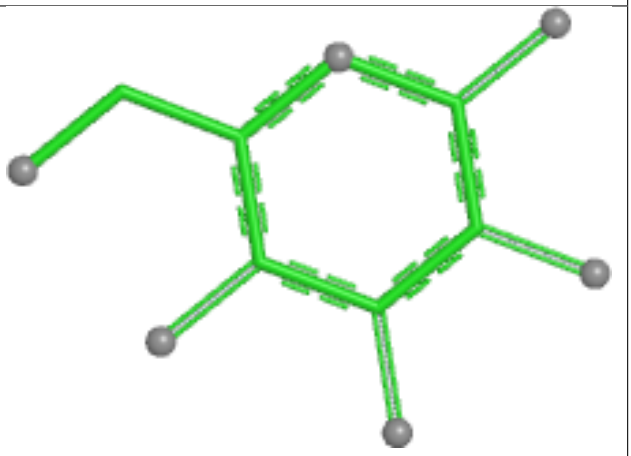

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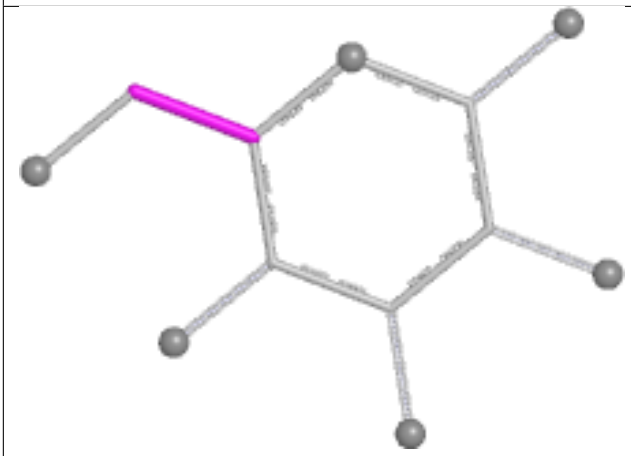
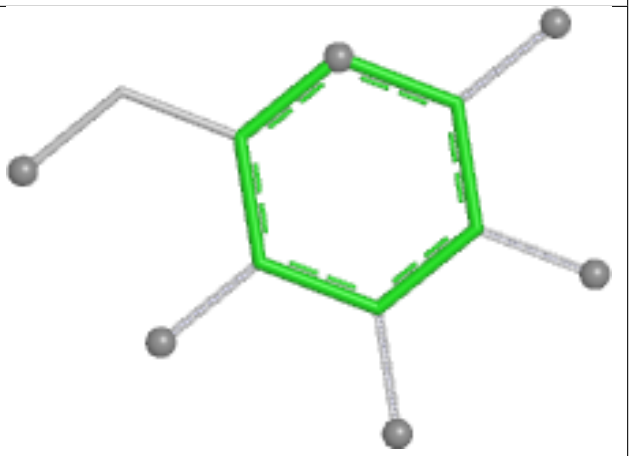
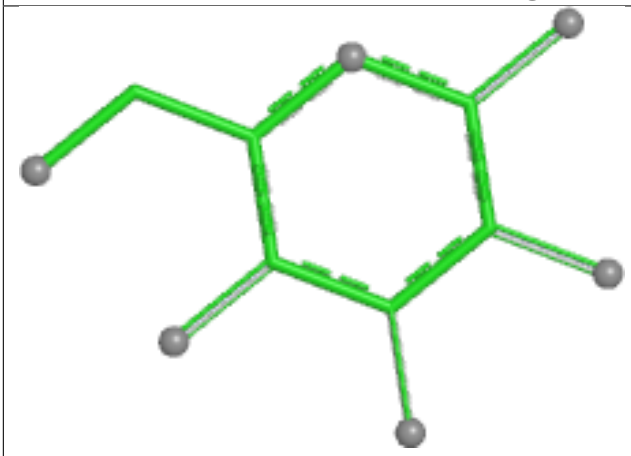


Torsions



Rings

Ligand GAL P 801



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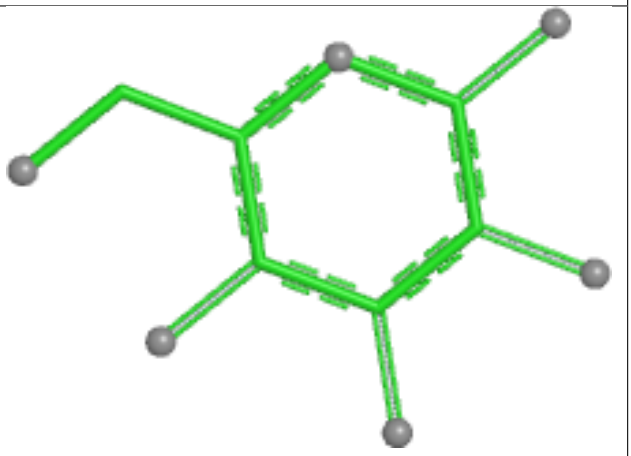

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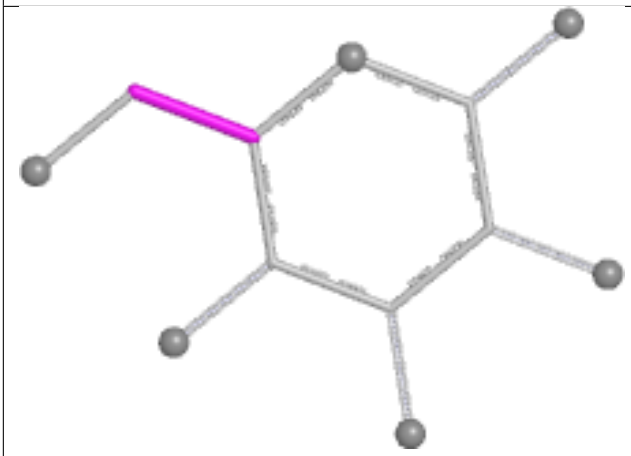

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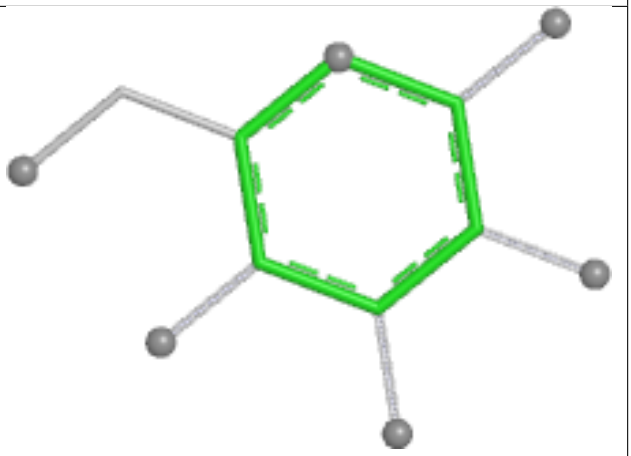

Rings

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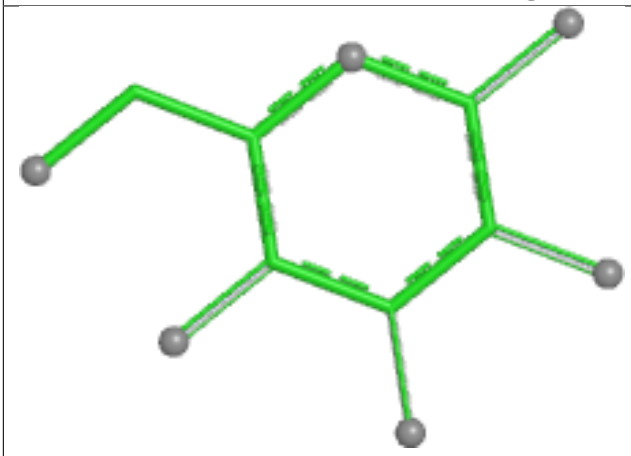

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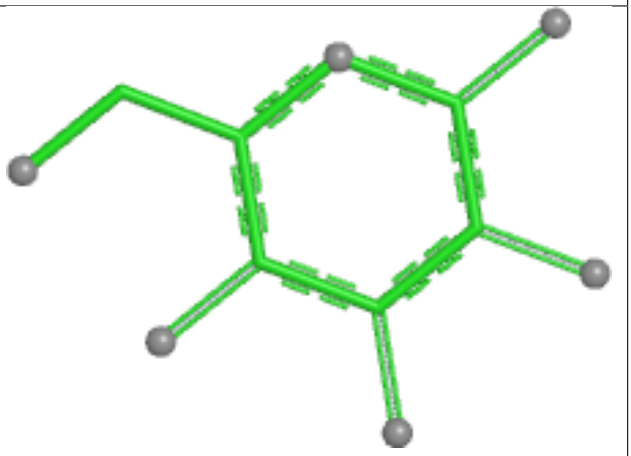

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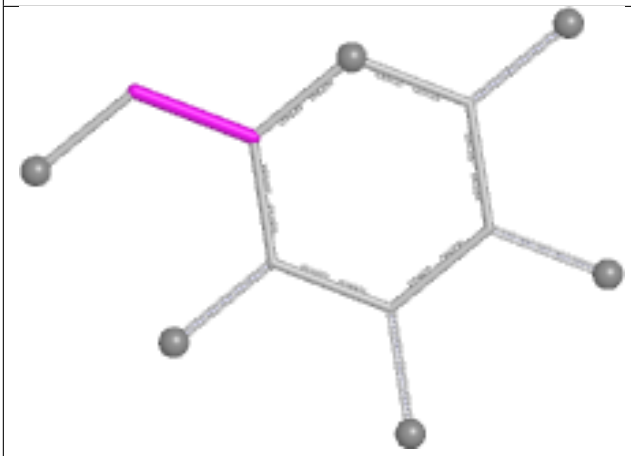

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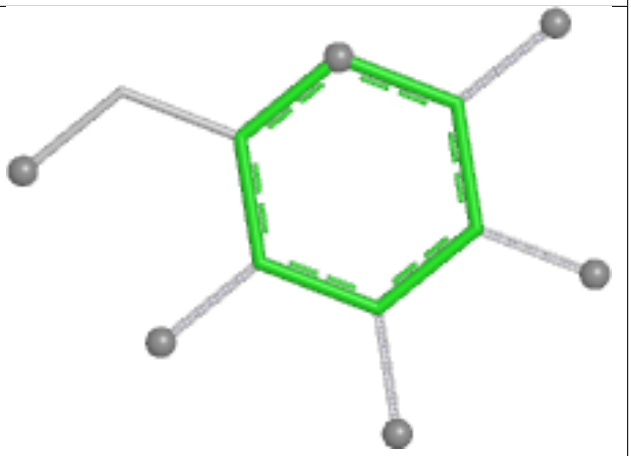

Rings

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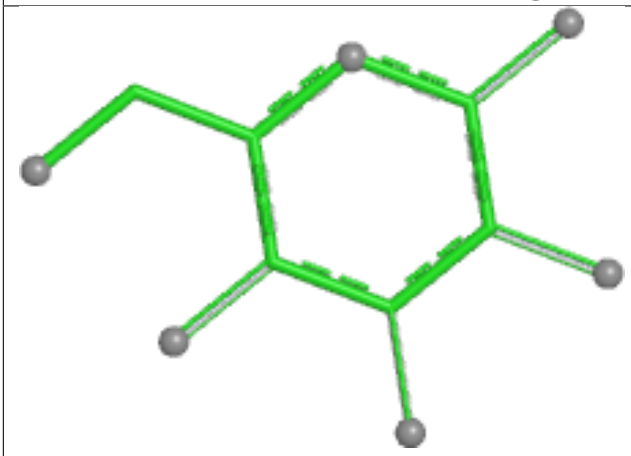

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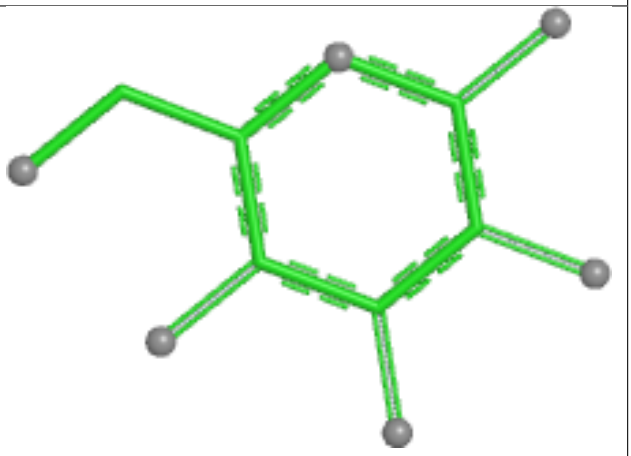

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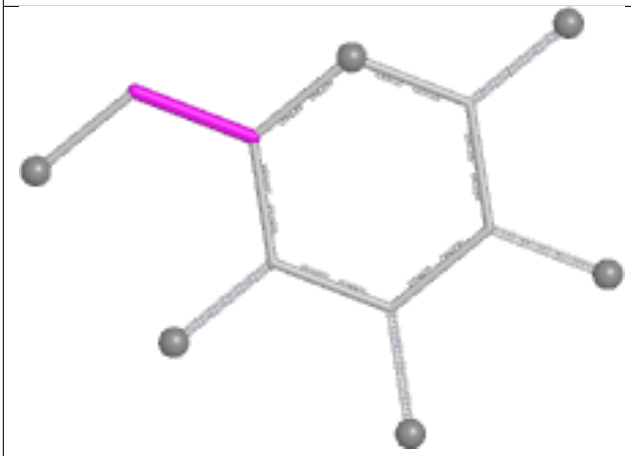

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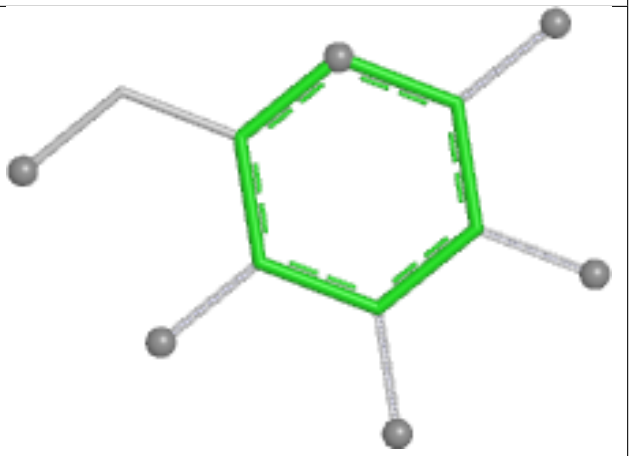

Rings

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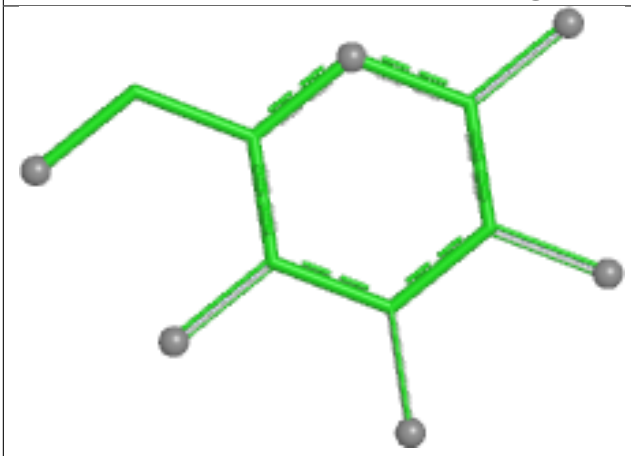

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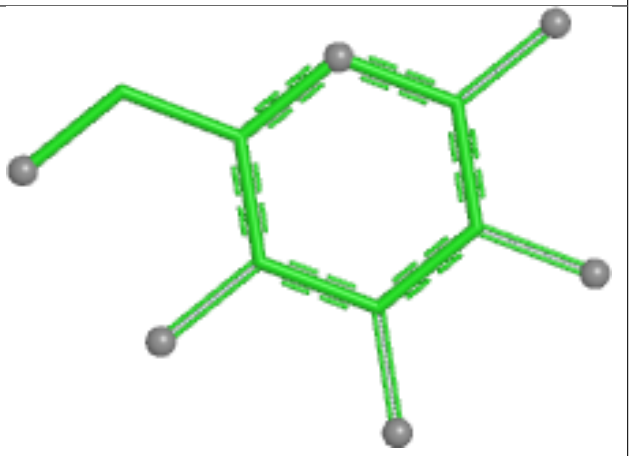

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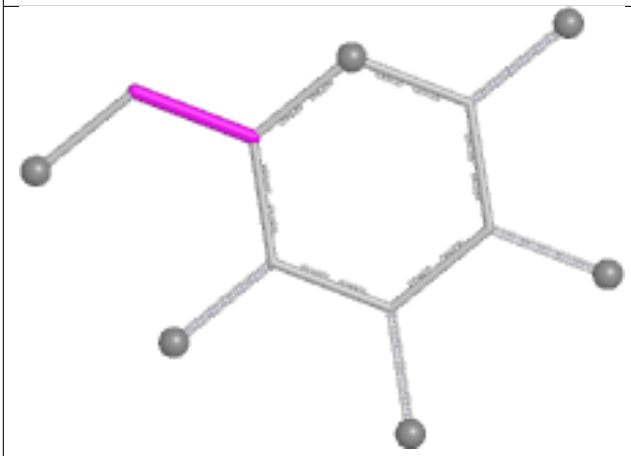

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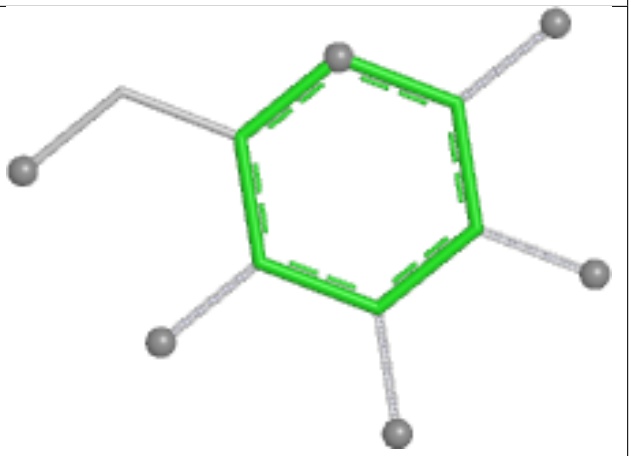

Rings

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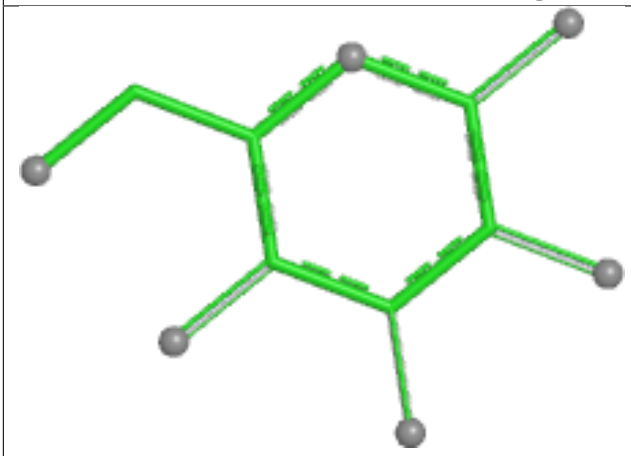

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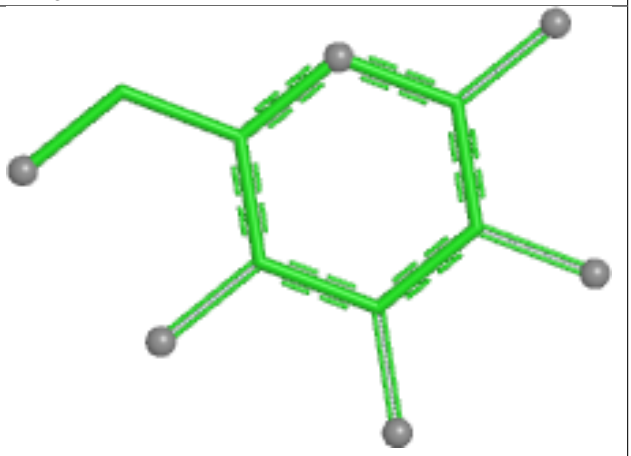

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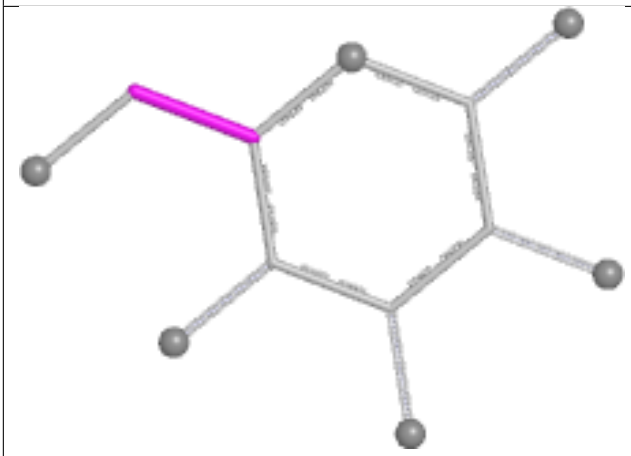

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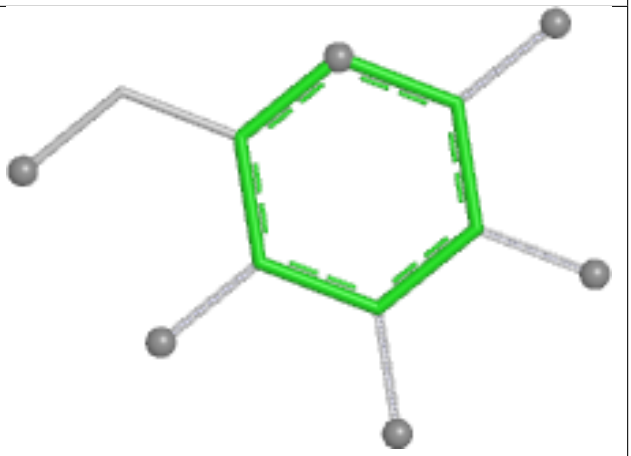

Rings

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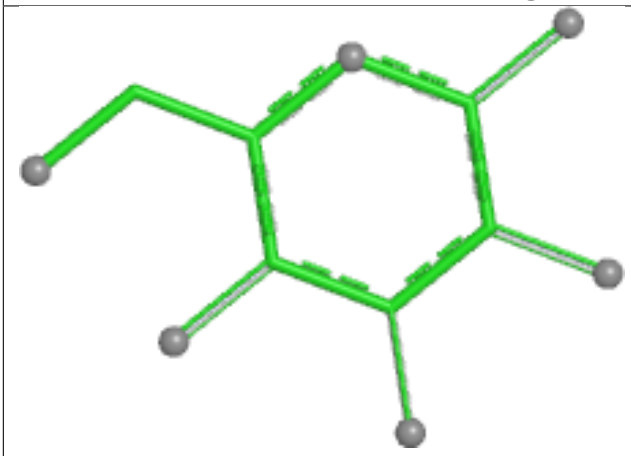

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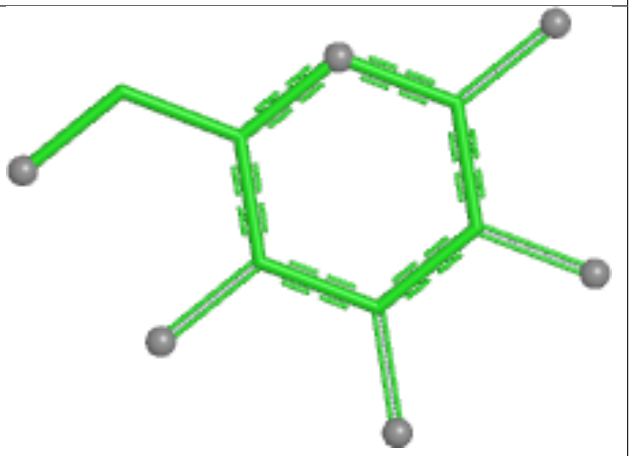

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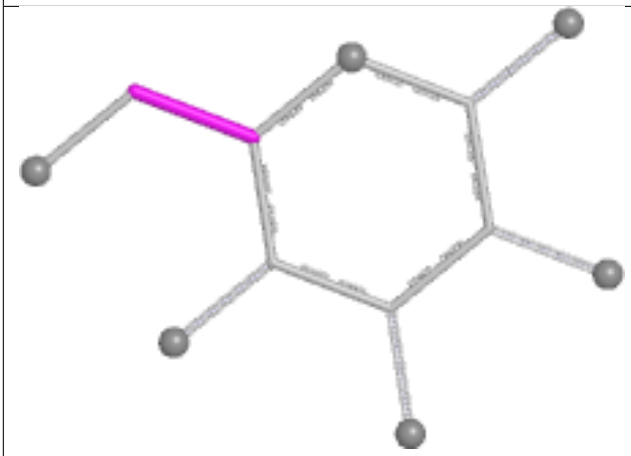

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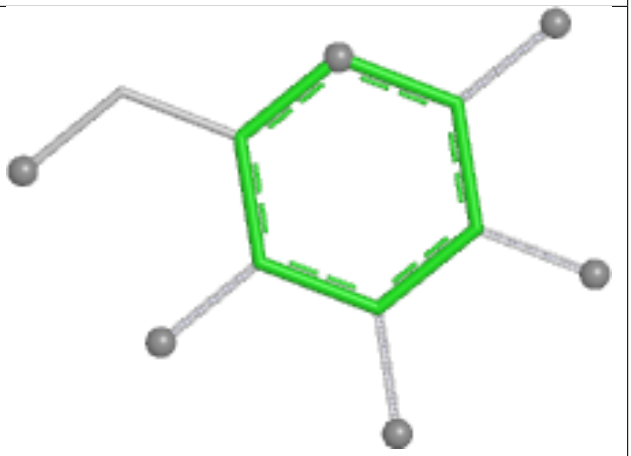

Rings

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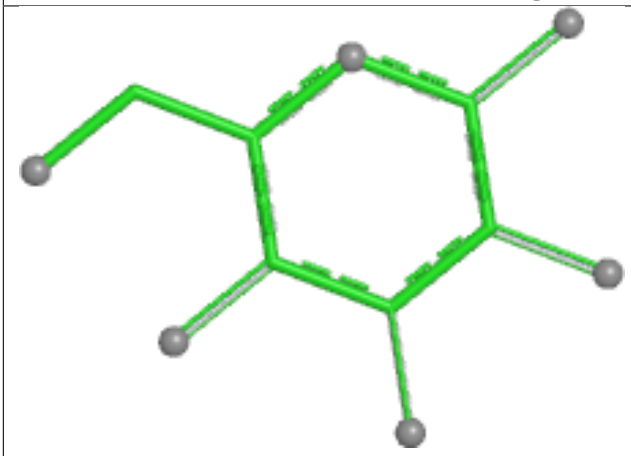

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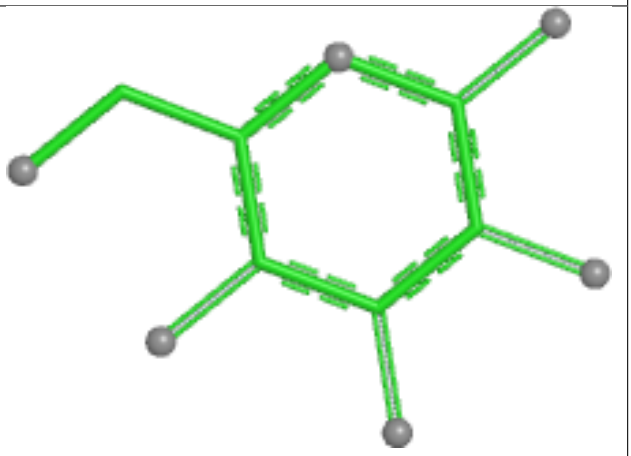

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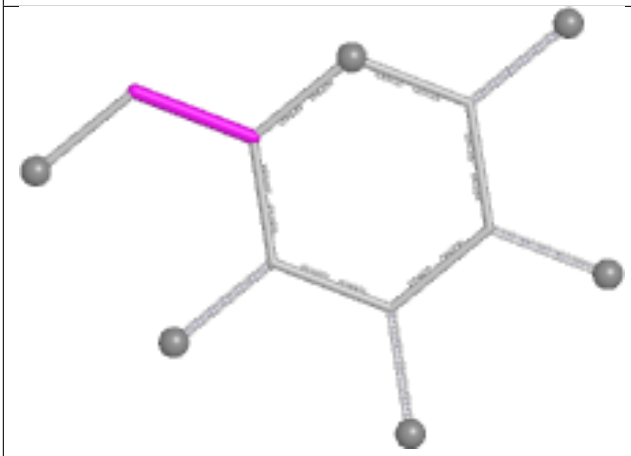

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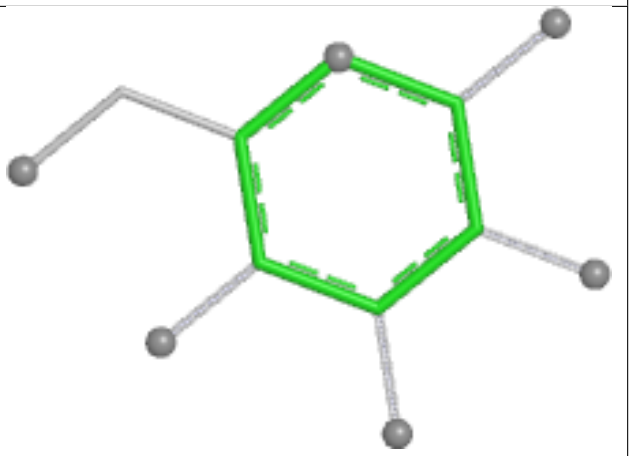

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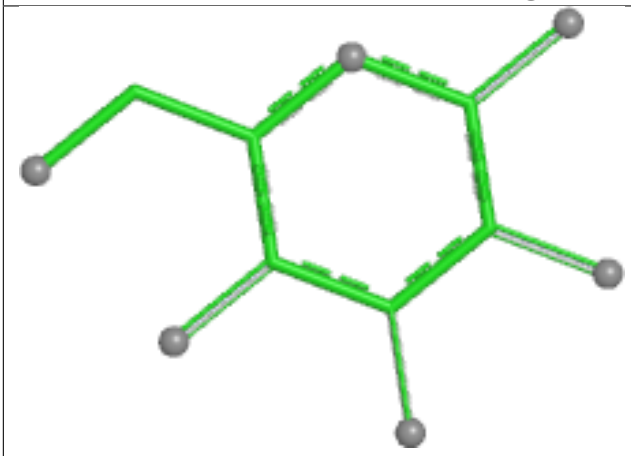

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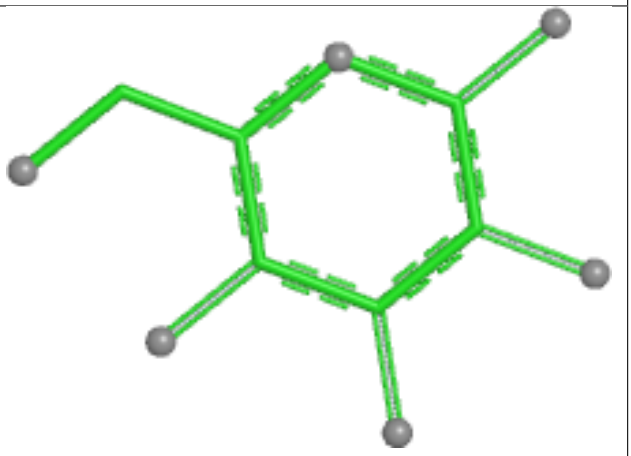

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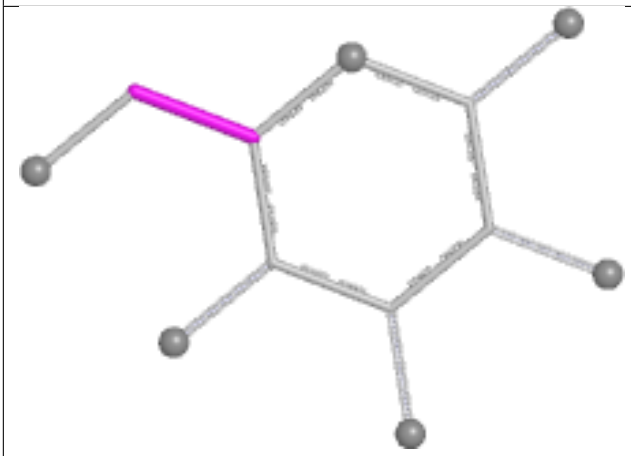

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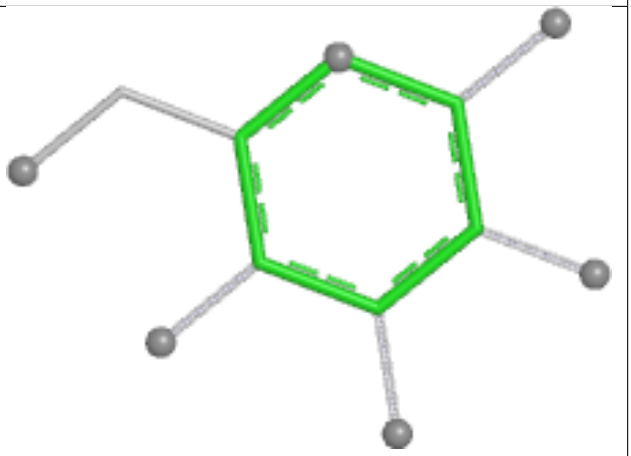

Rings

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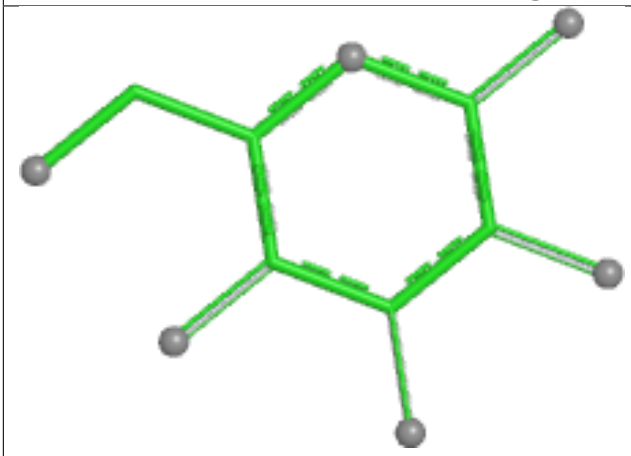

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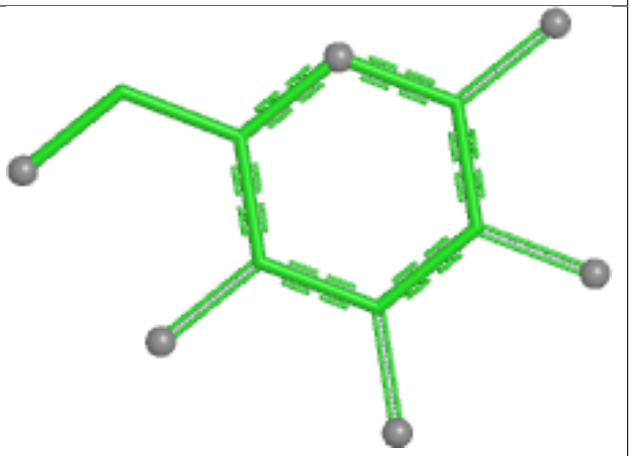

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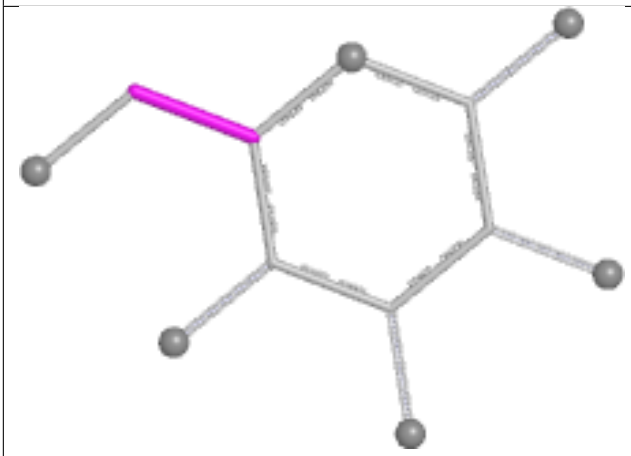

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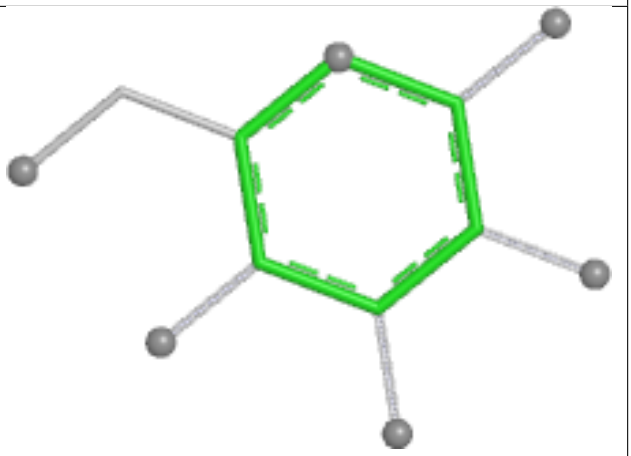

Rings

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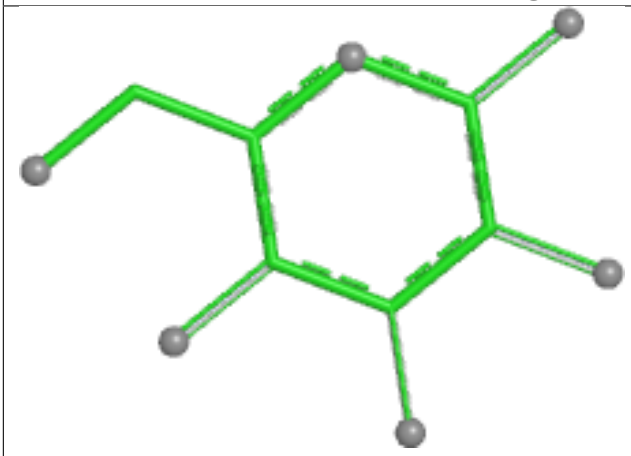

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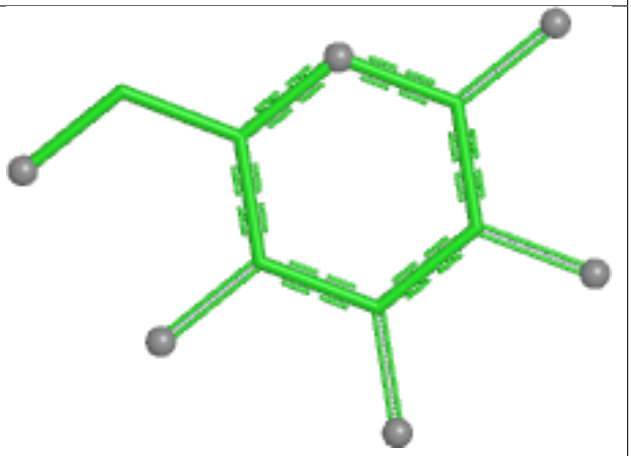

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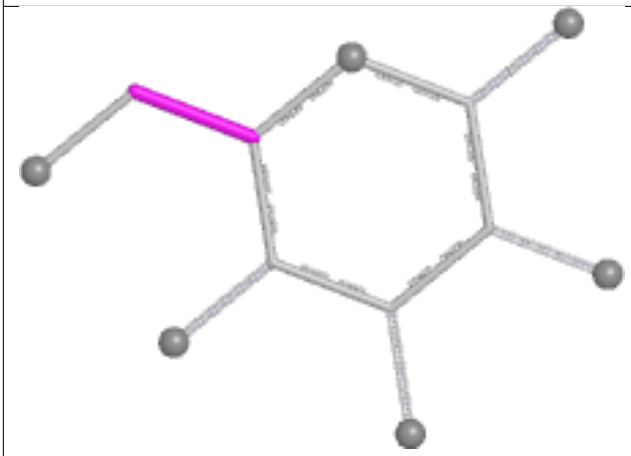

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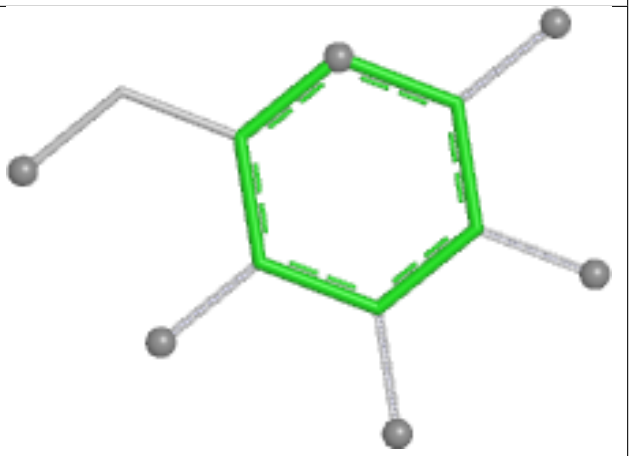

Rings

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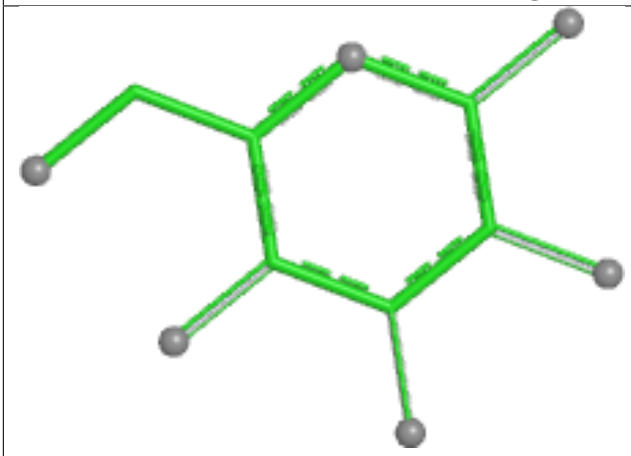

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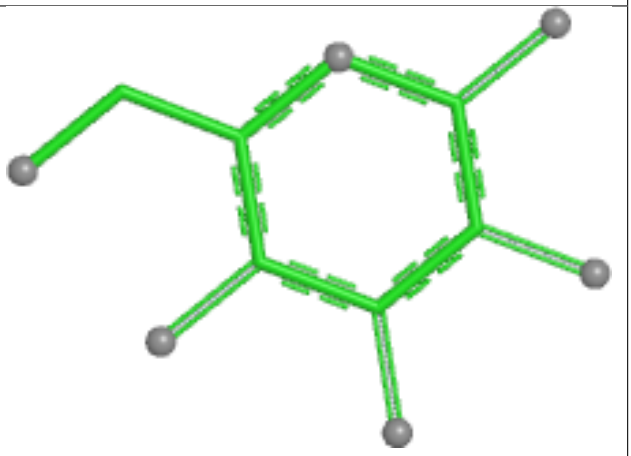

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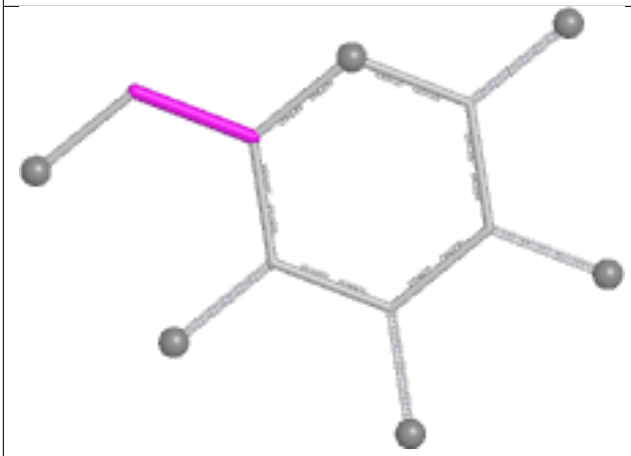

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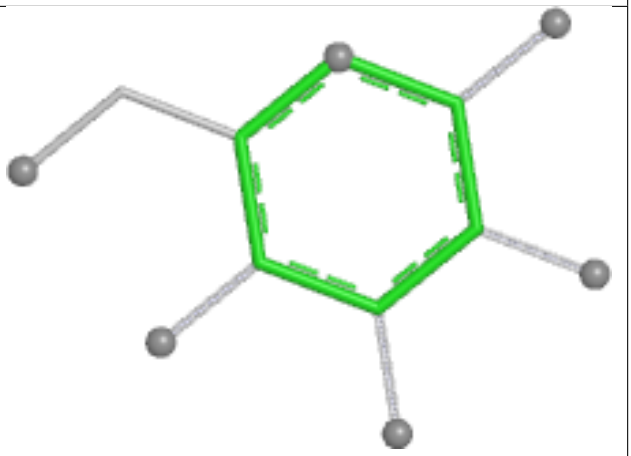

Rings

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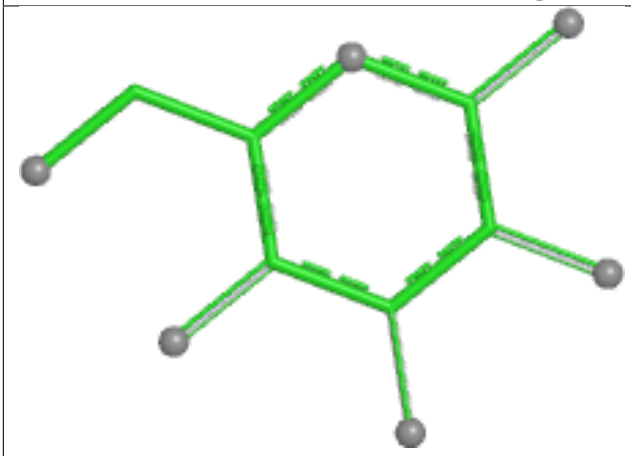

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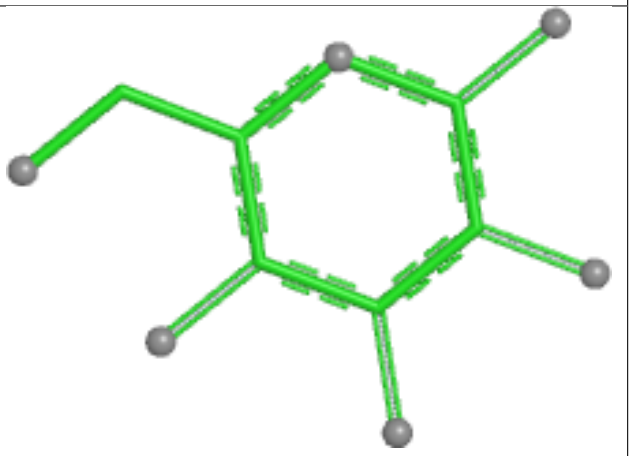

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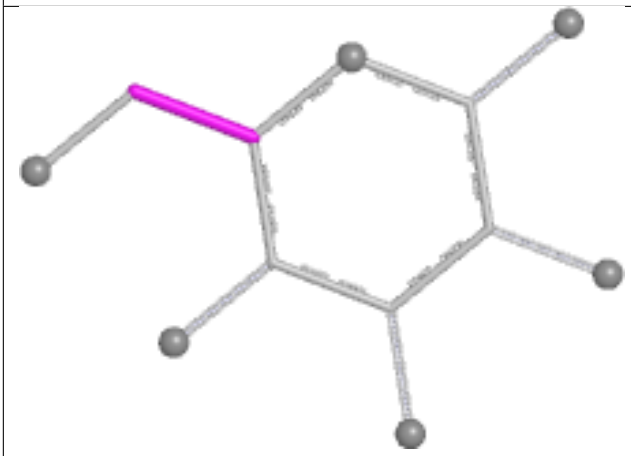

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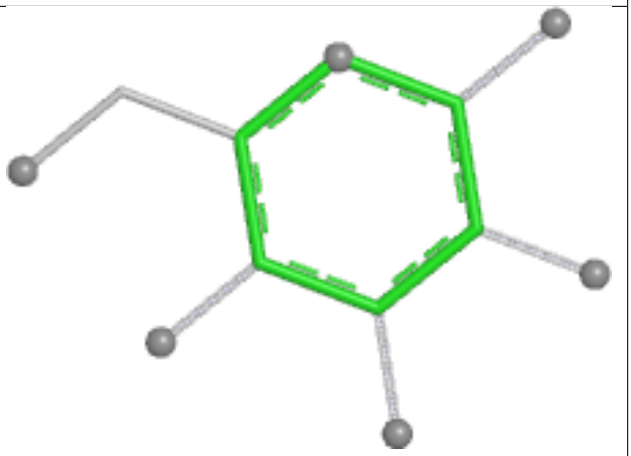

Rings

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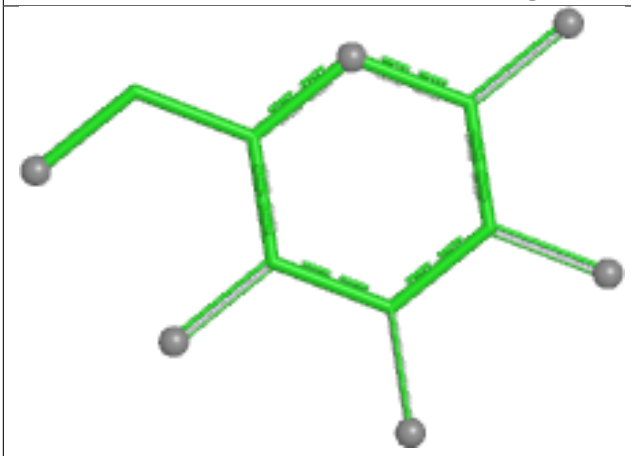

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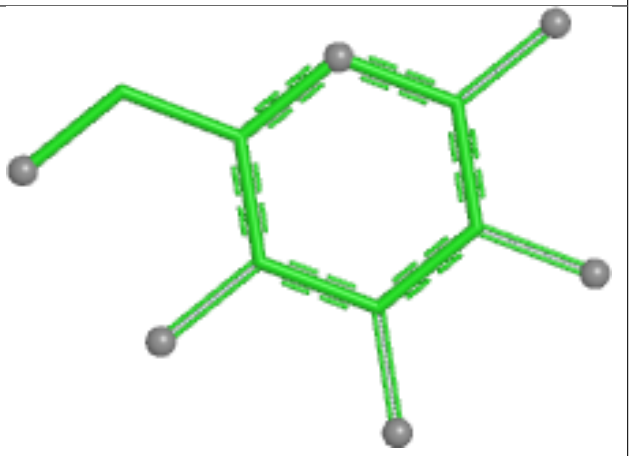

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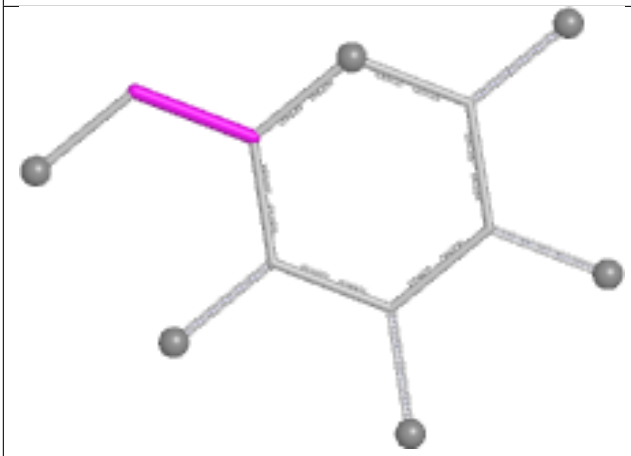

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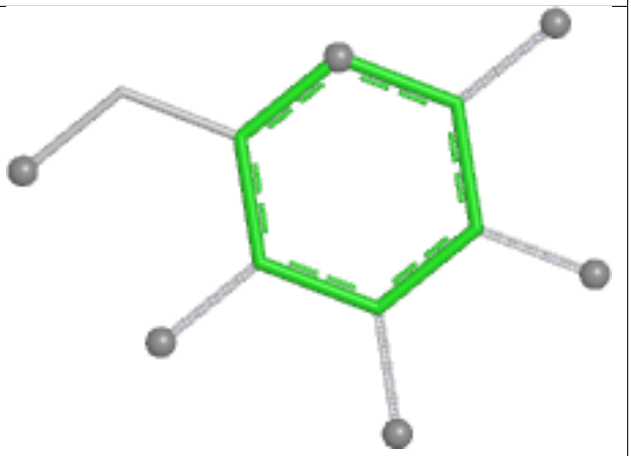

Rings

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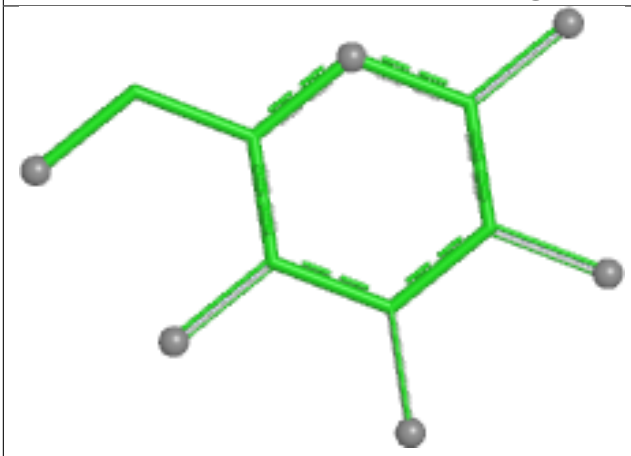

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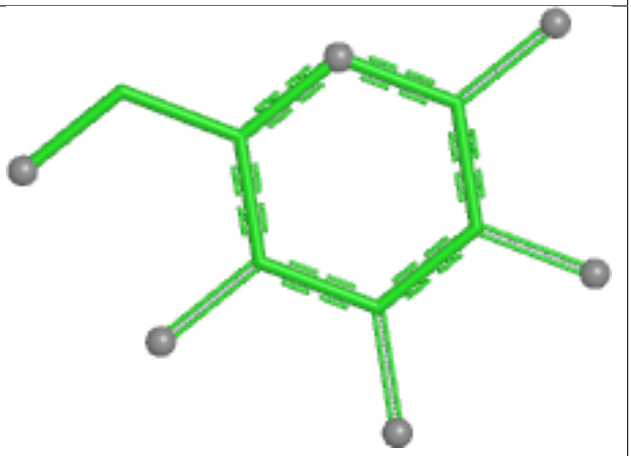

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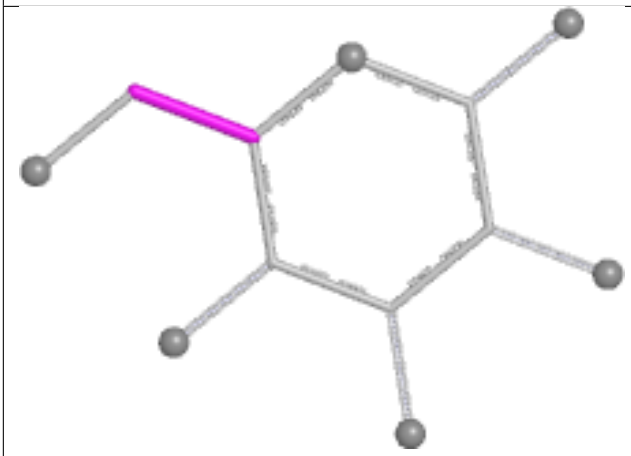

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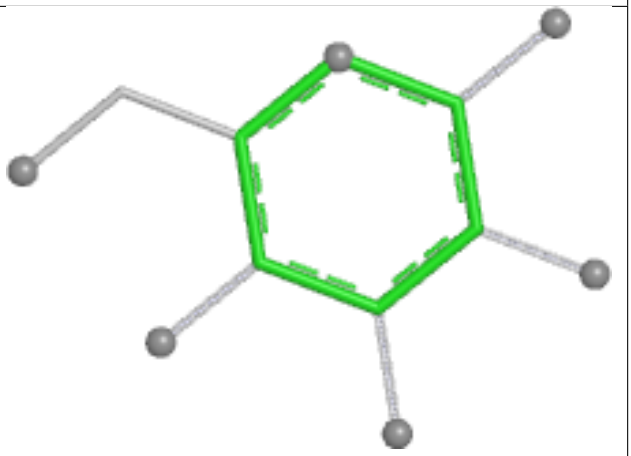

Rings

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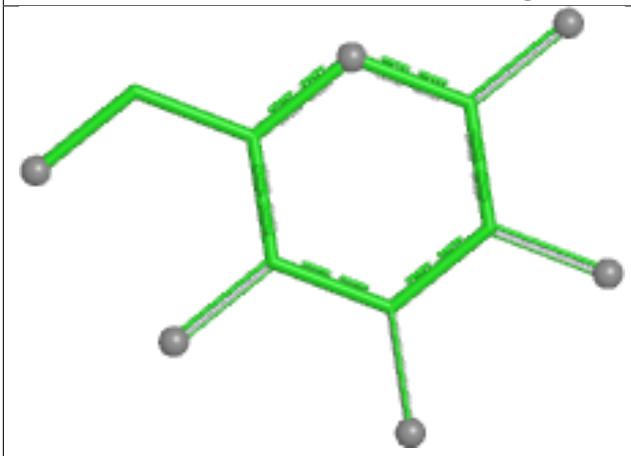

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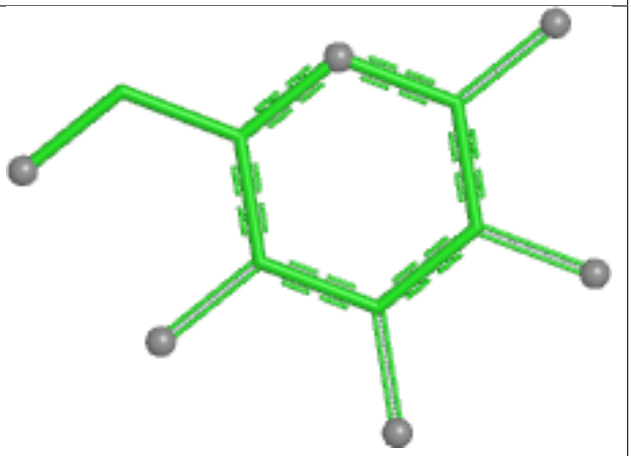

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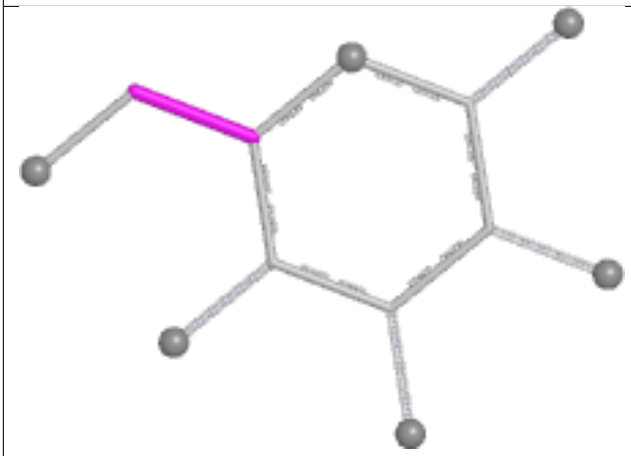

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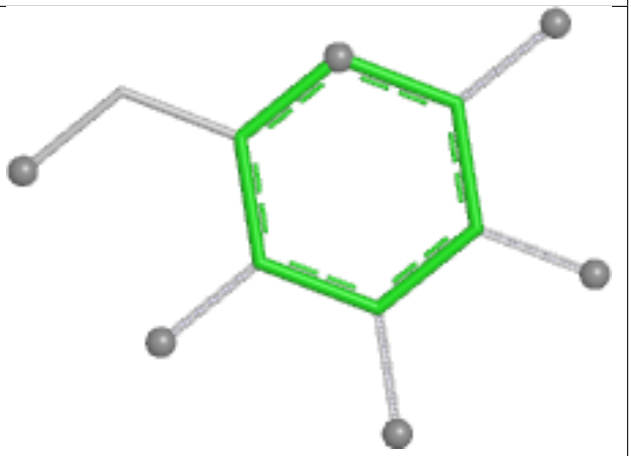

Rings

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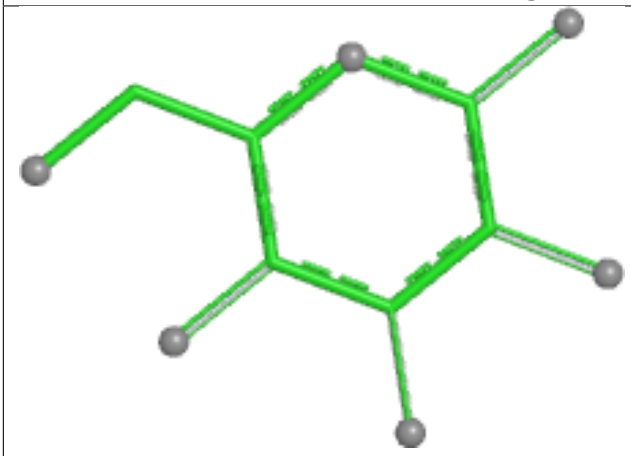

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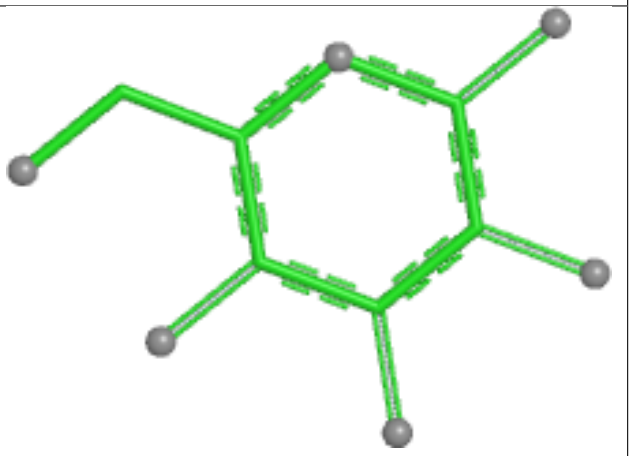

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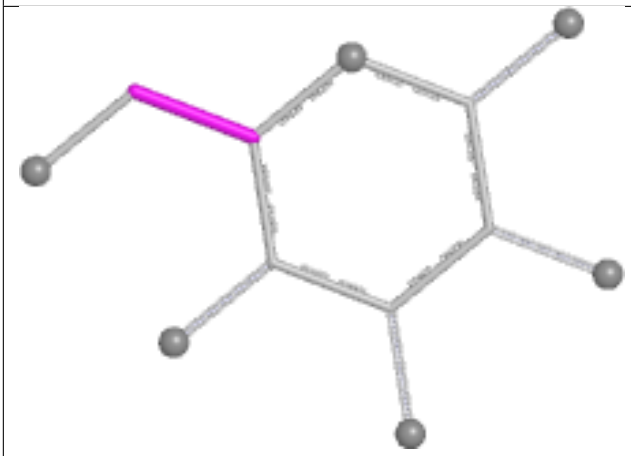

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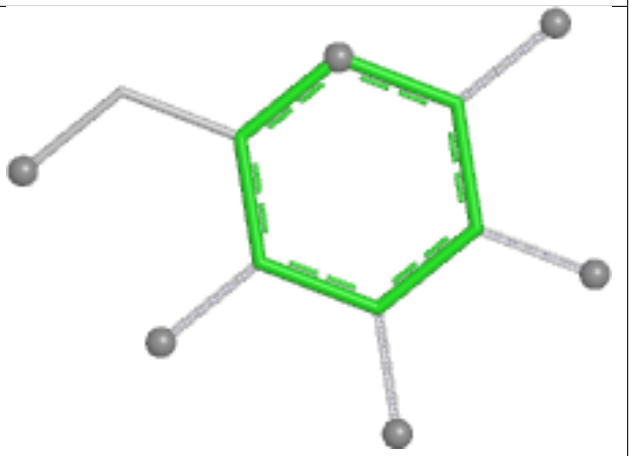

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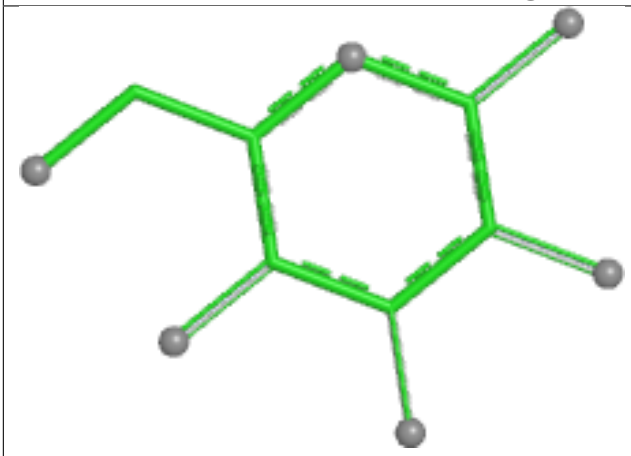

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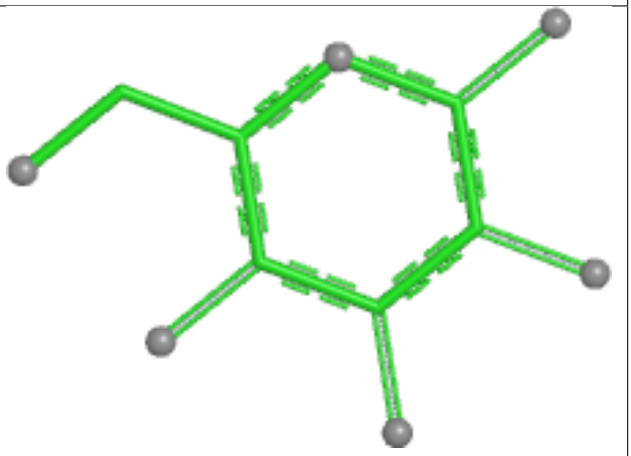

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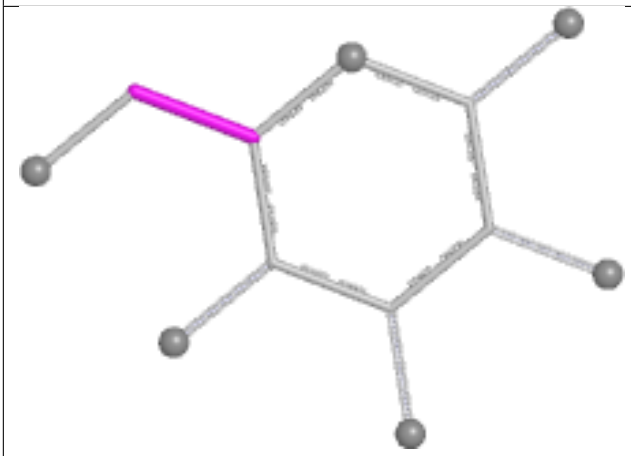

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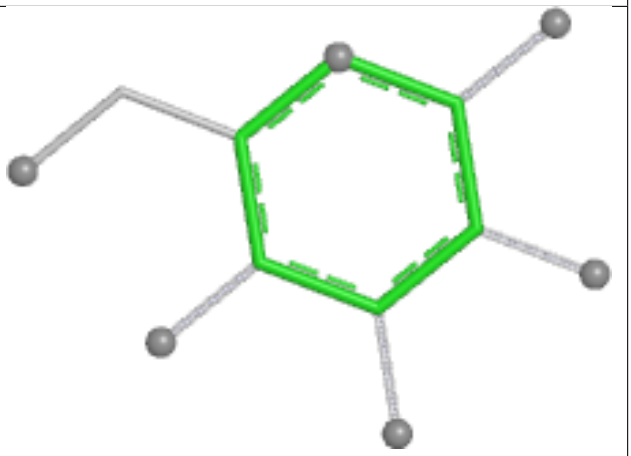

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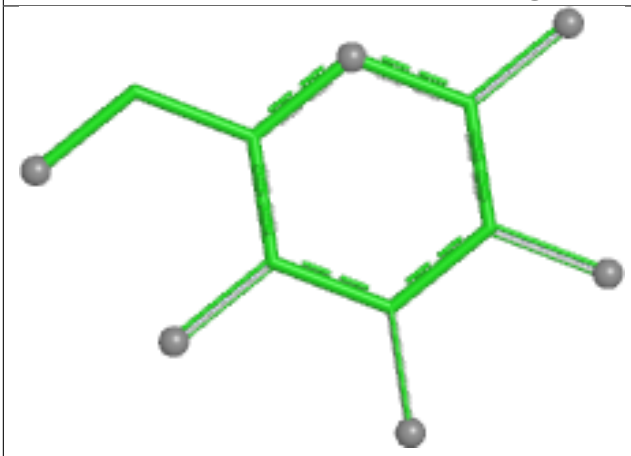

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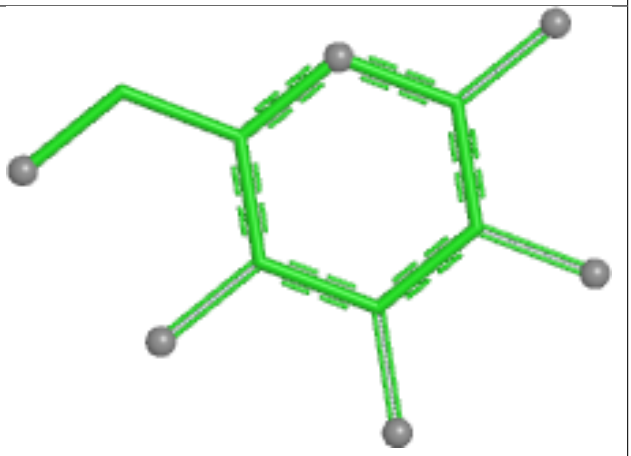

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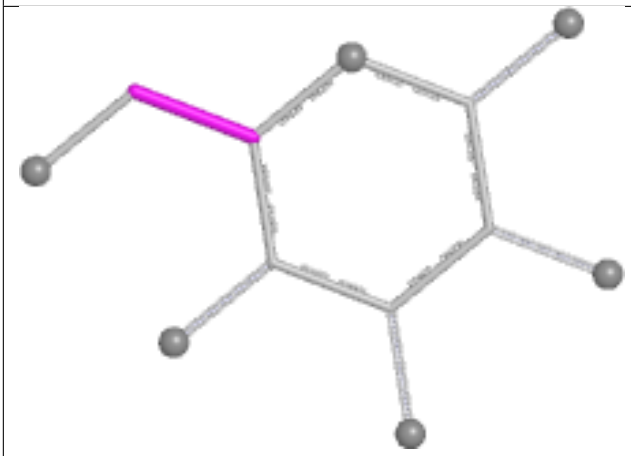

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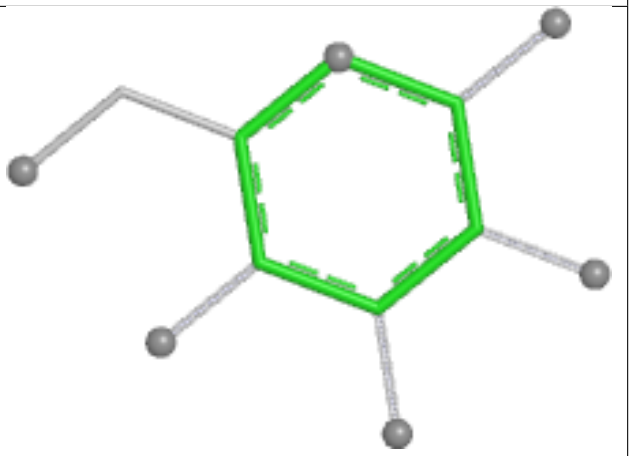

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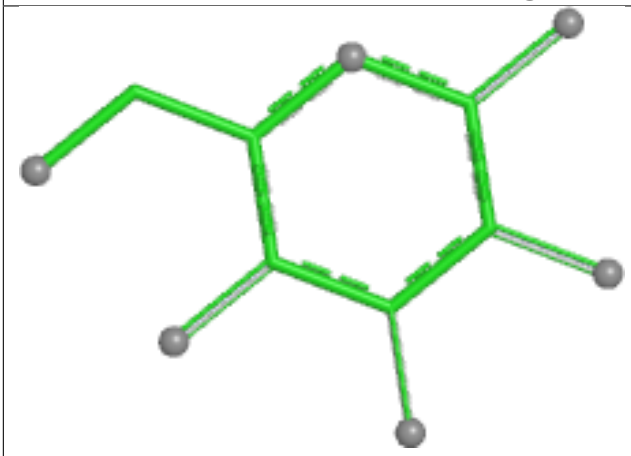

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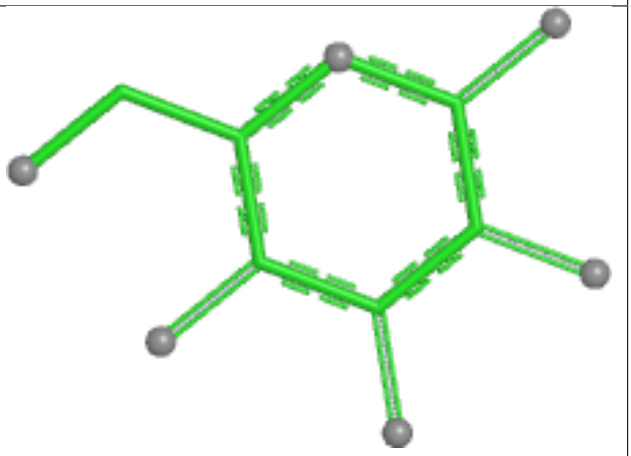

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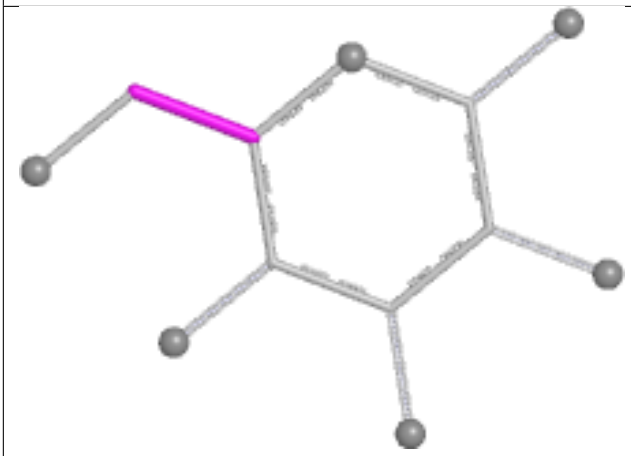

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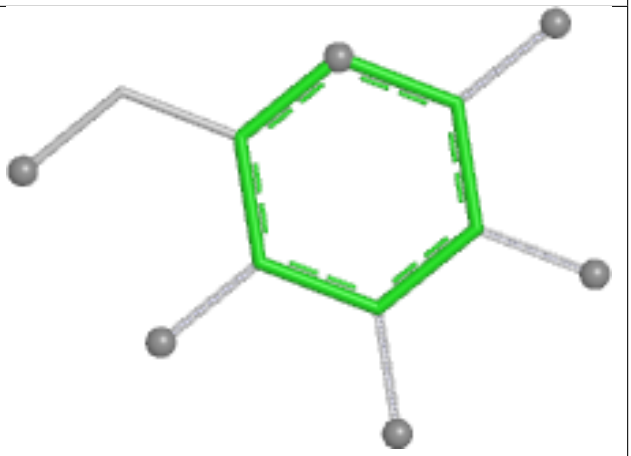

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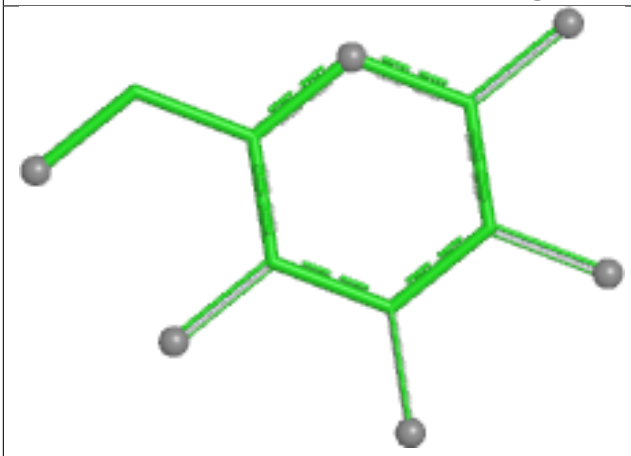

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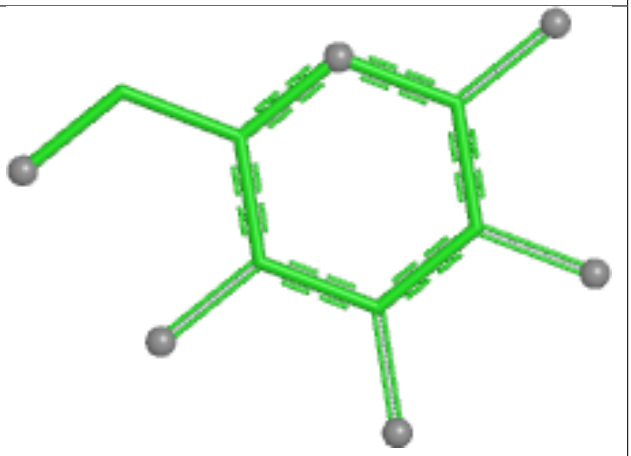

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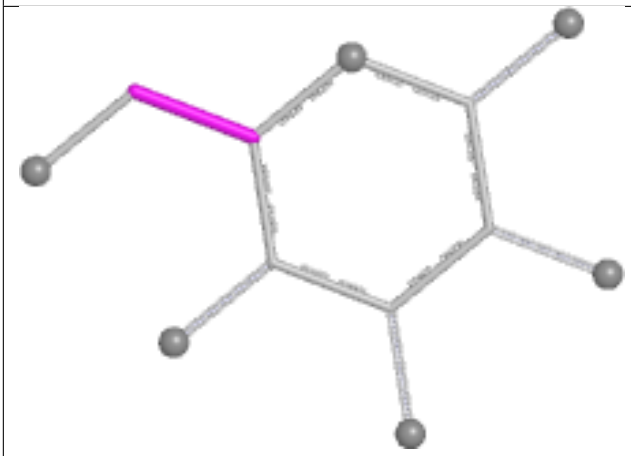

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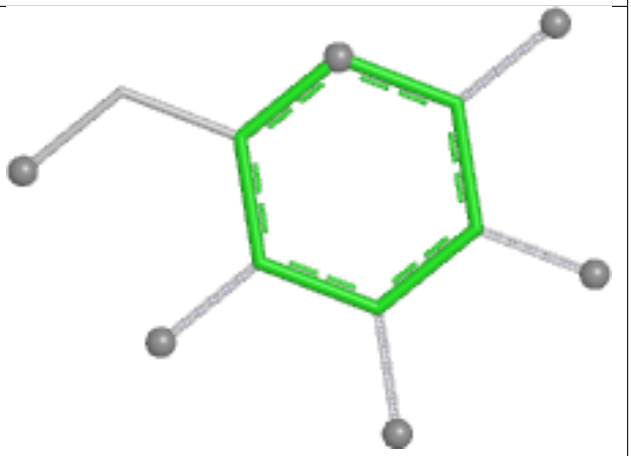

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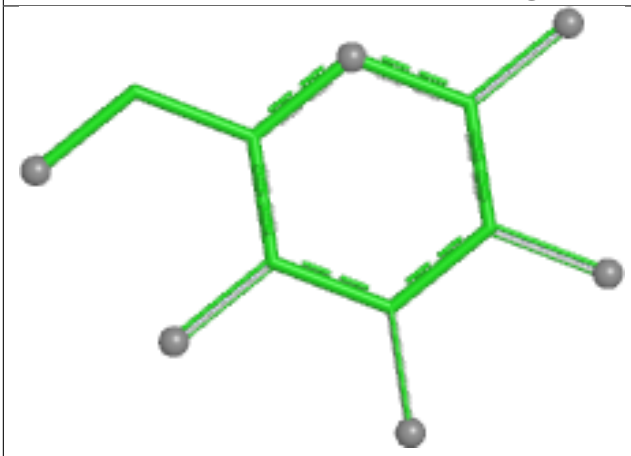

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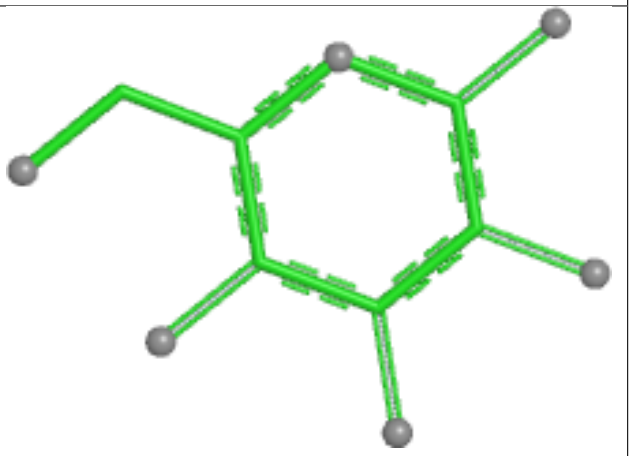

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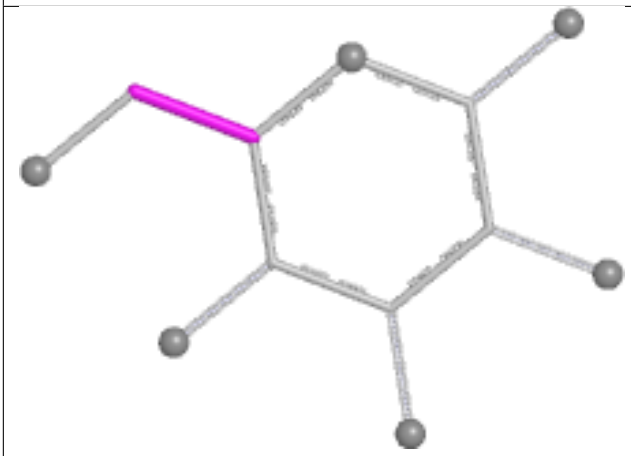

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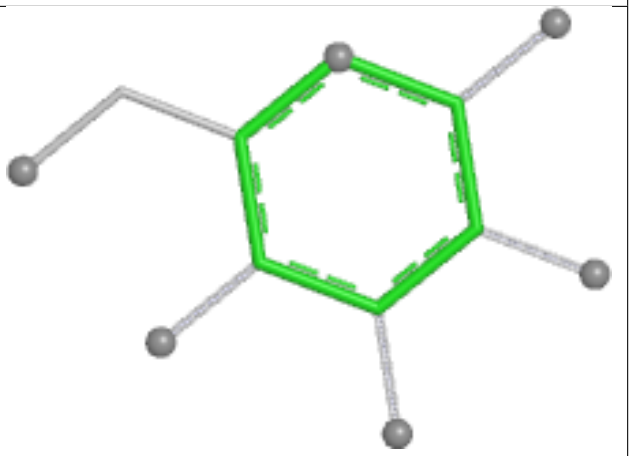

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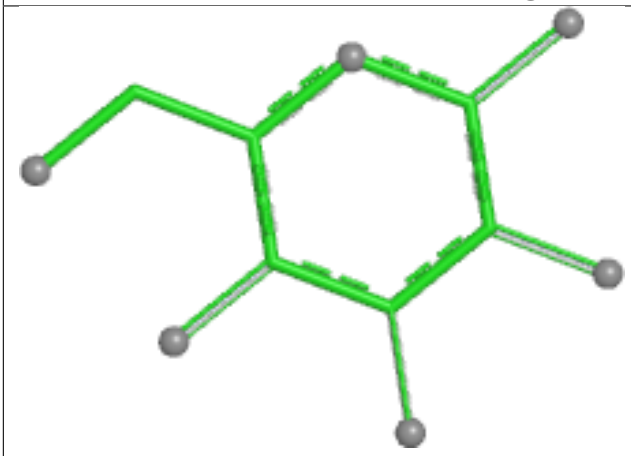

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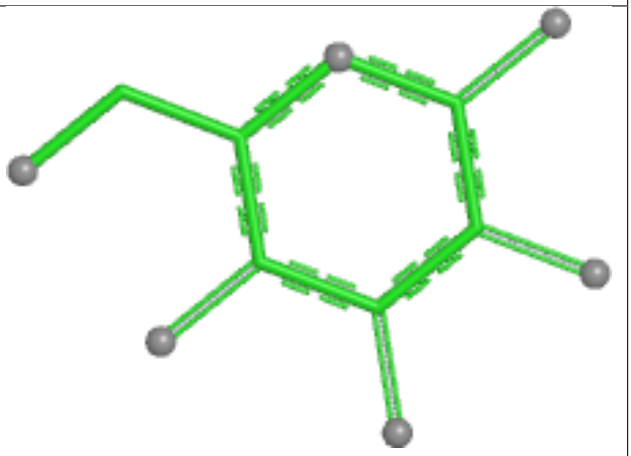

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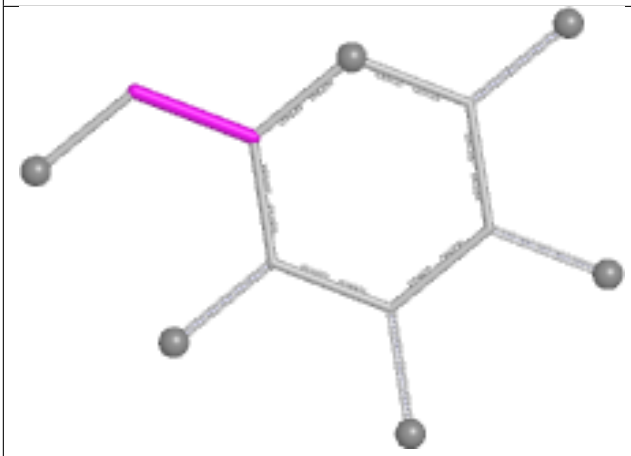

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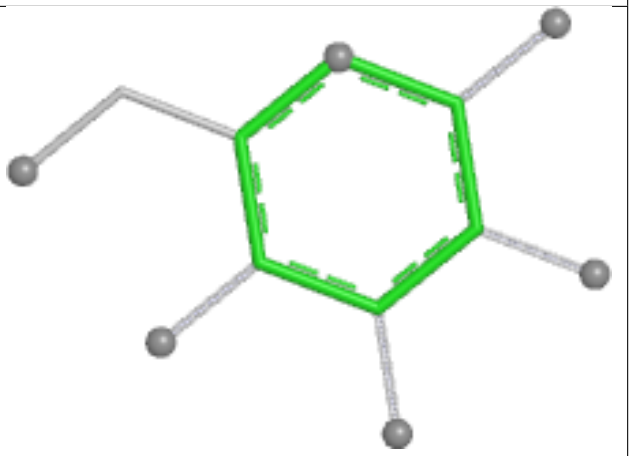

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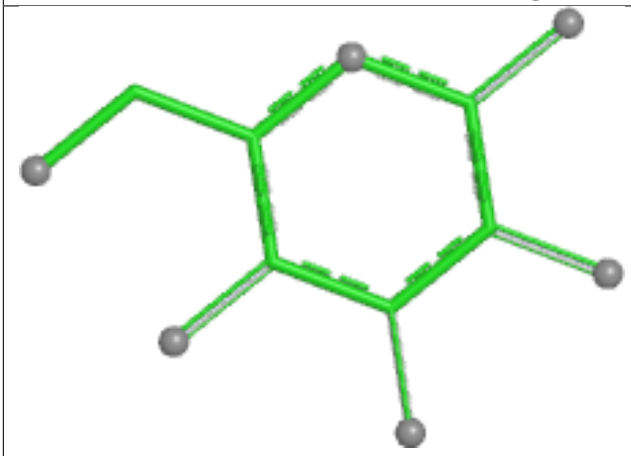

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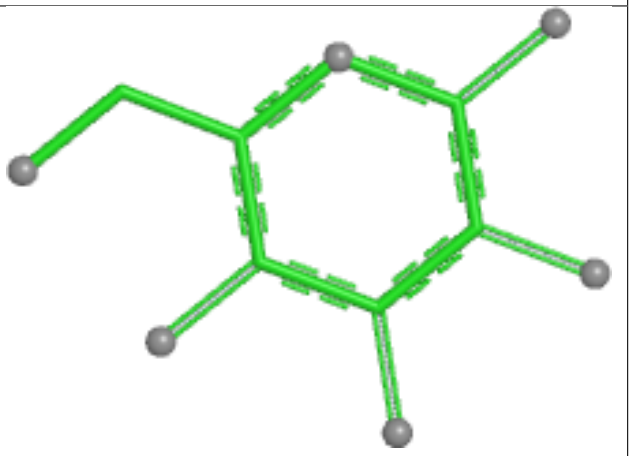

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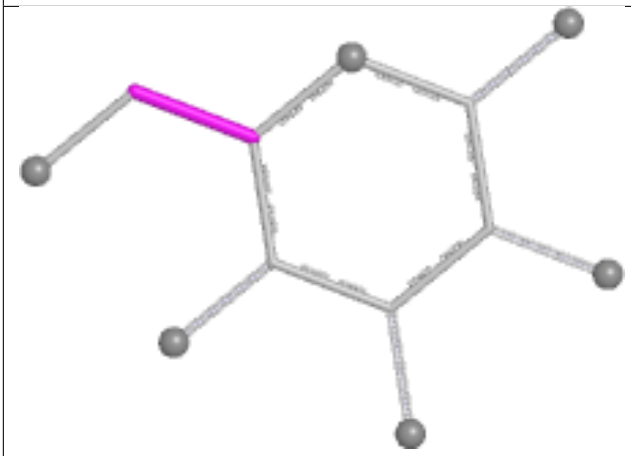

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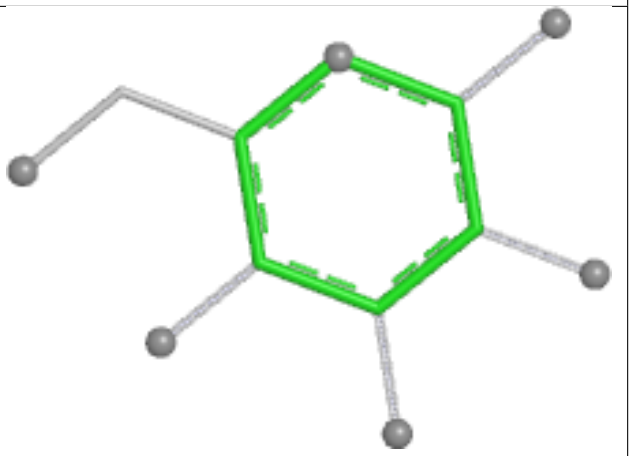

Rings

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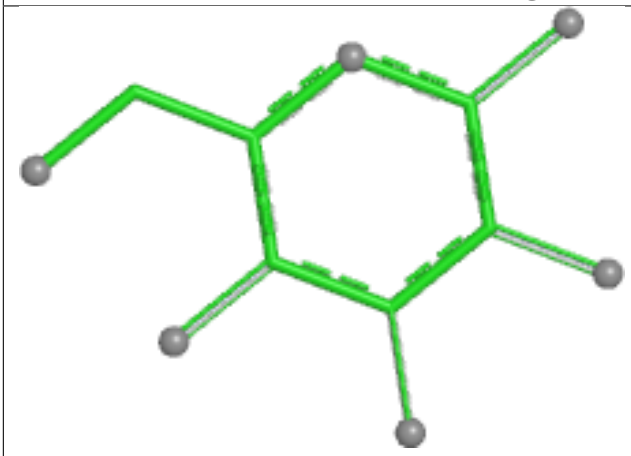

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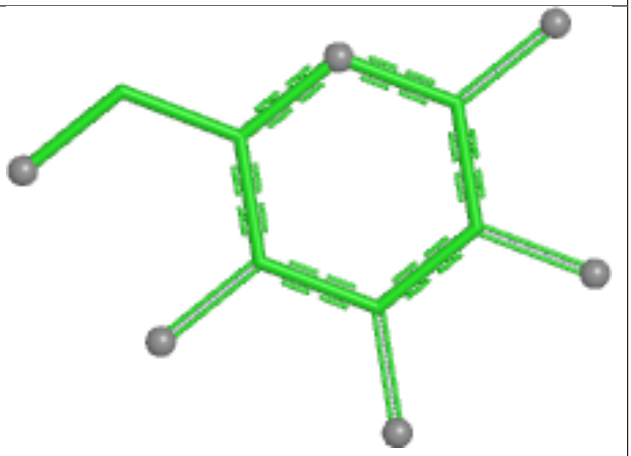

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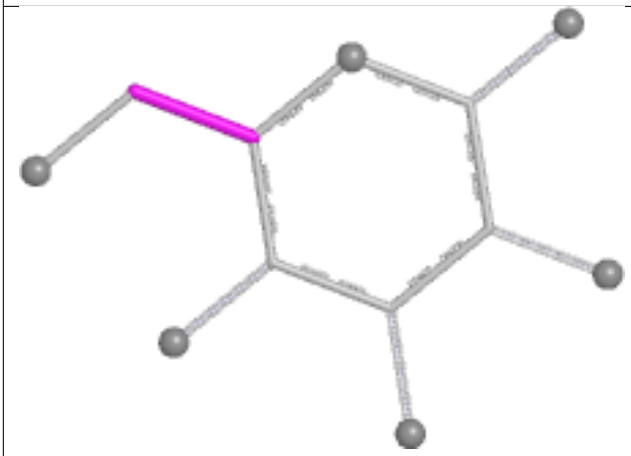

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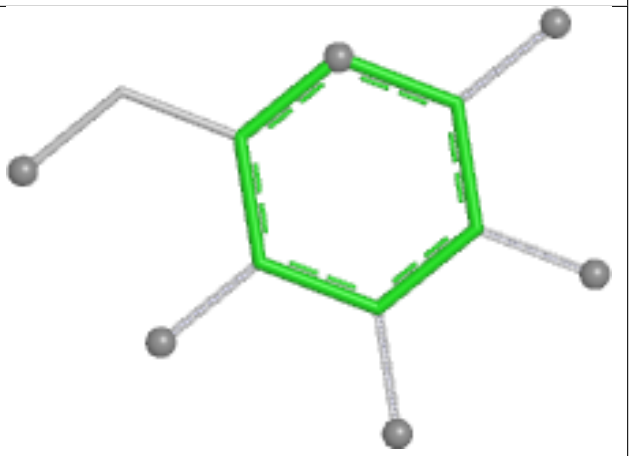

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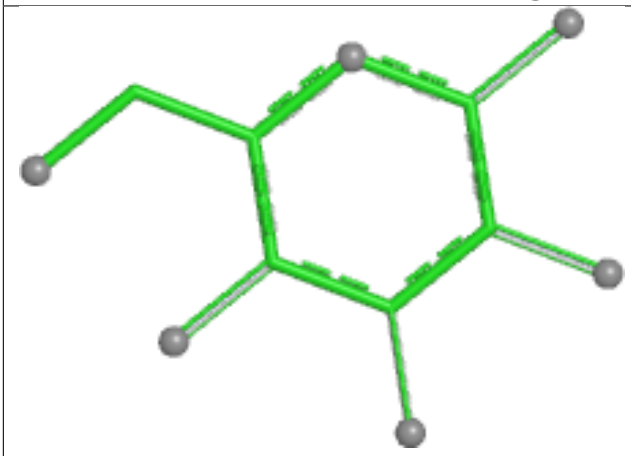

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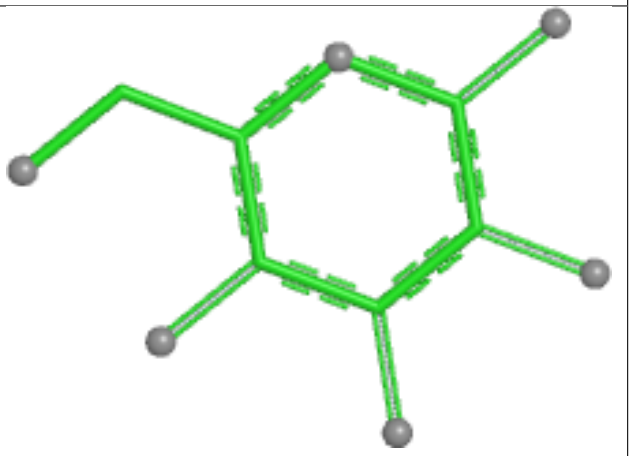

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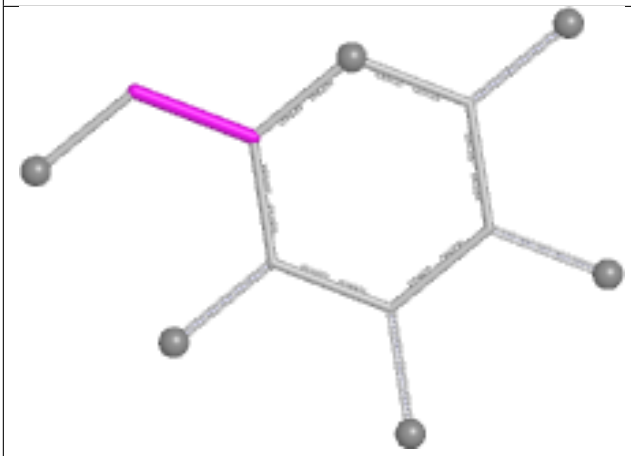

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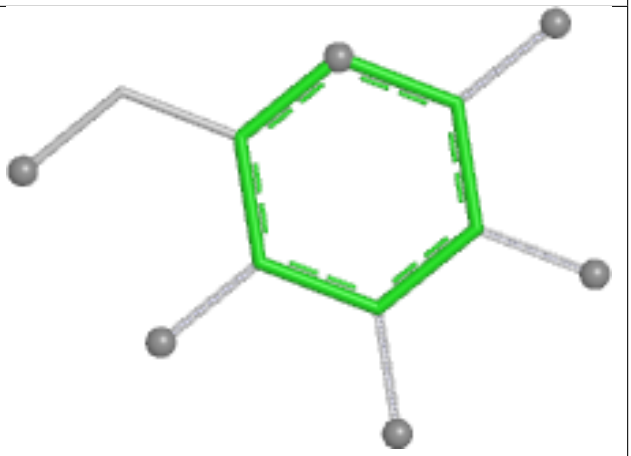

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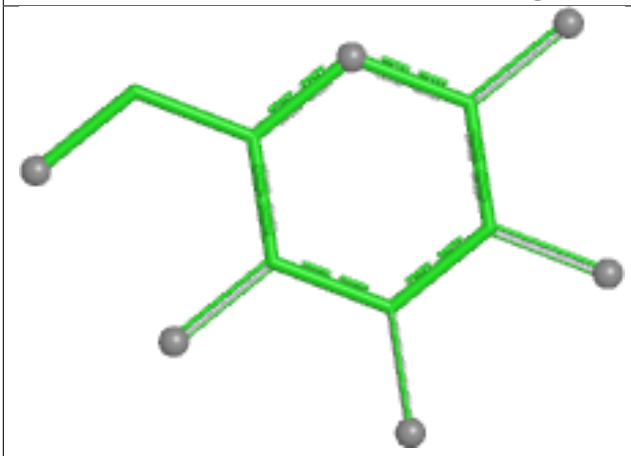

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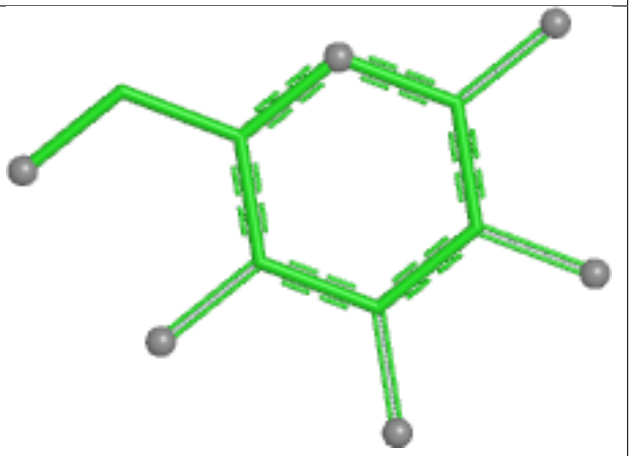

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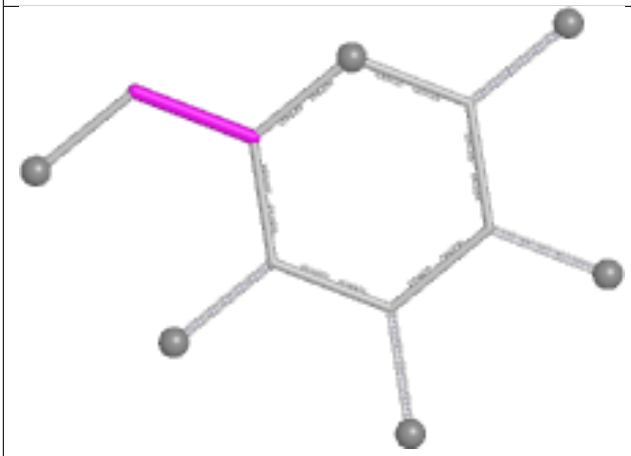

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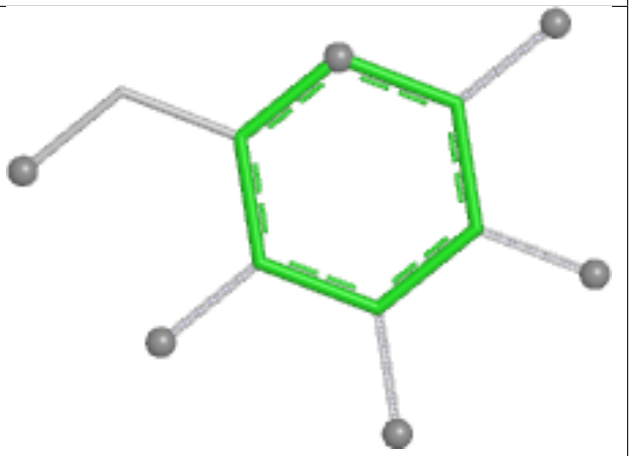

Rings

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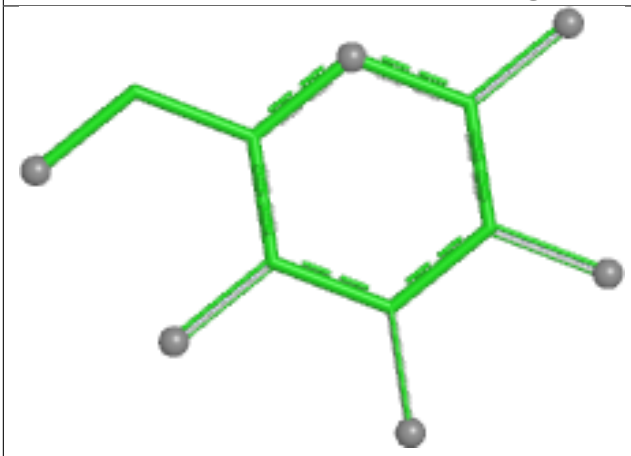

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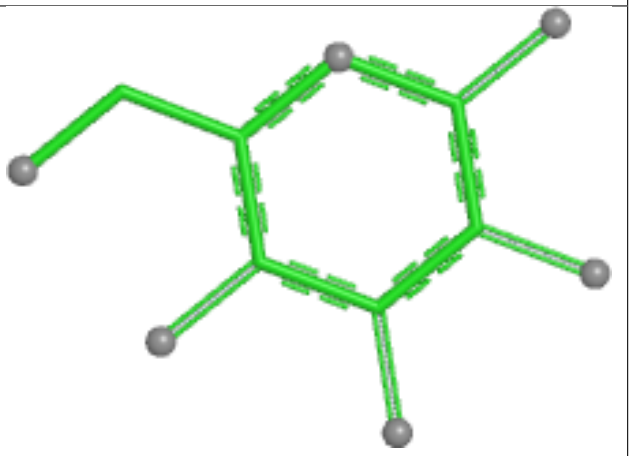

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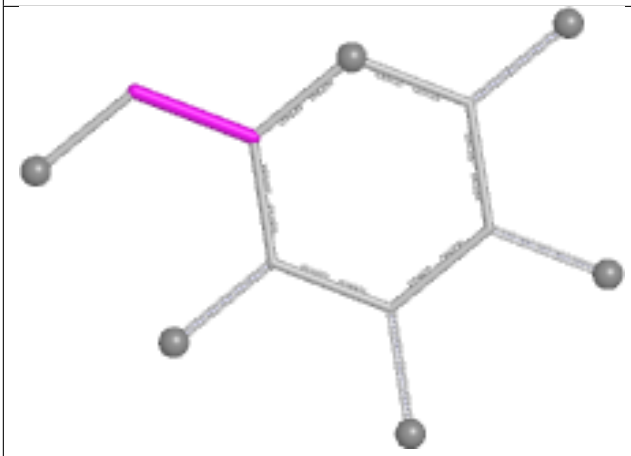
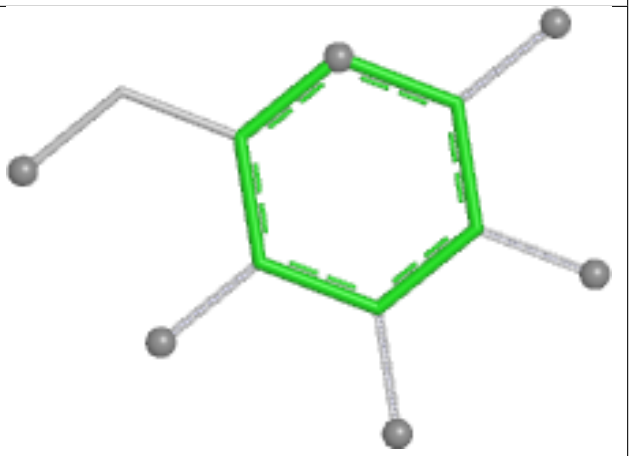


Torsions



Rings

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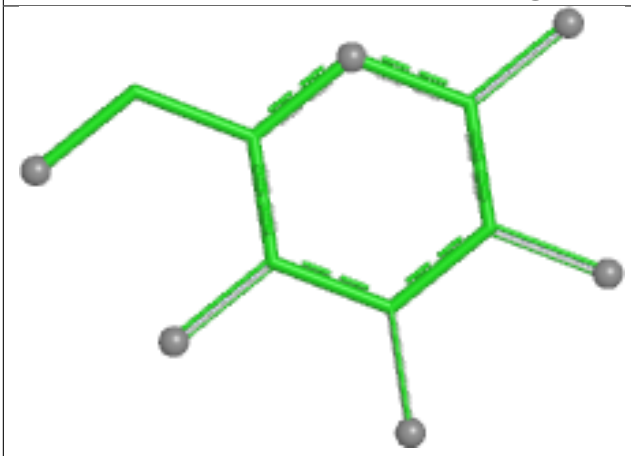

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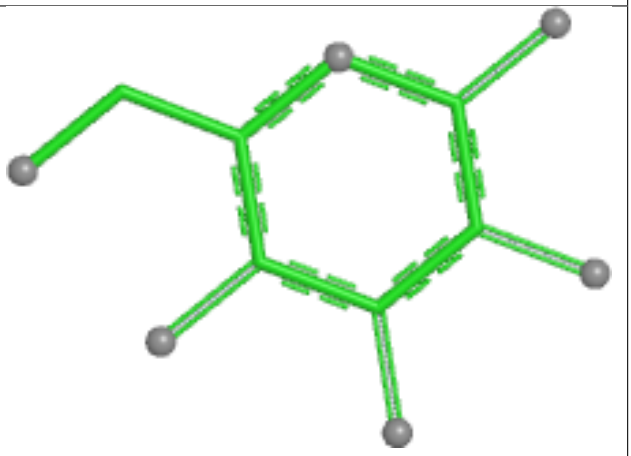

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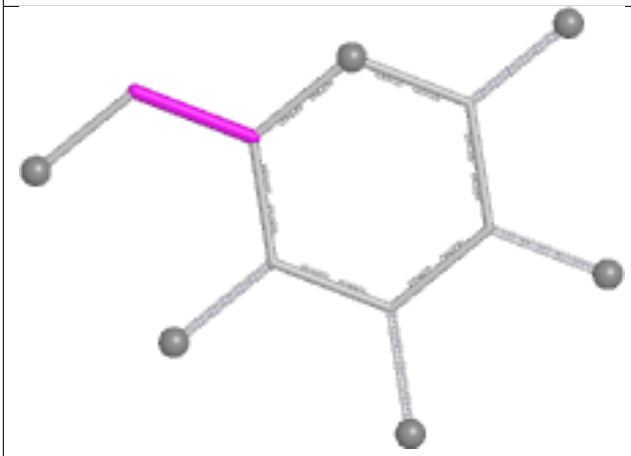

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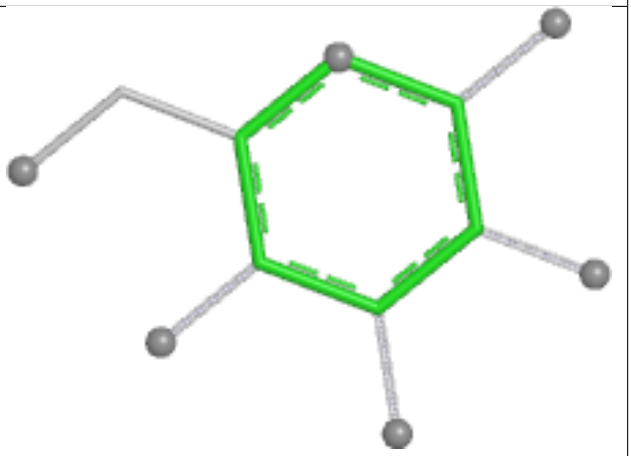

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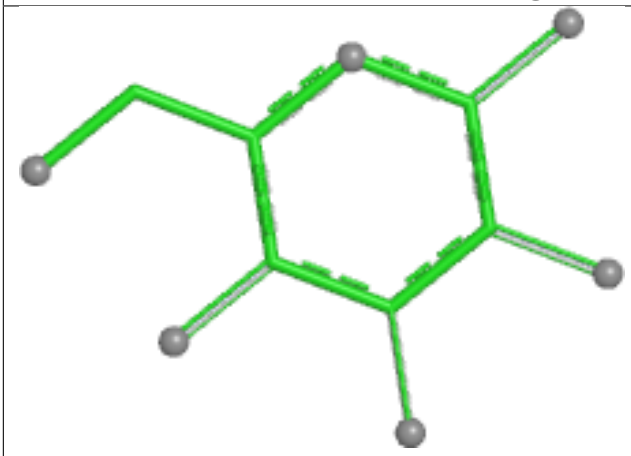

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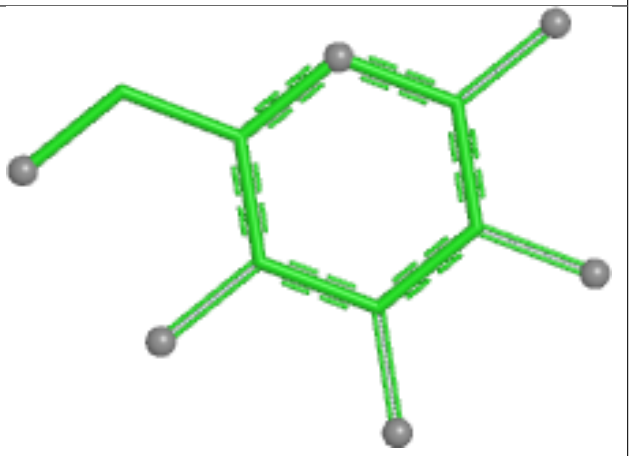

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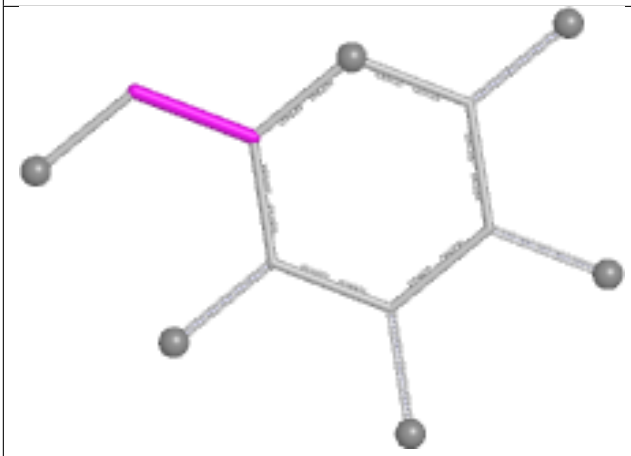

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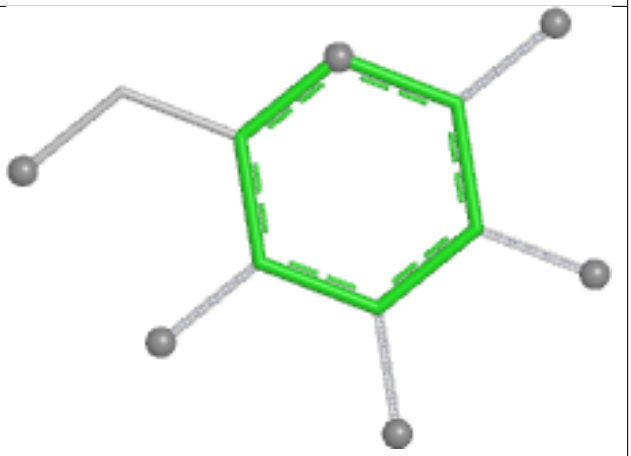

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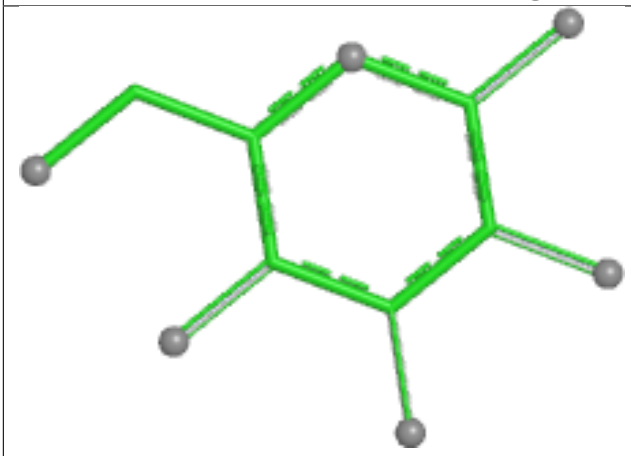

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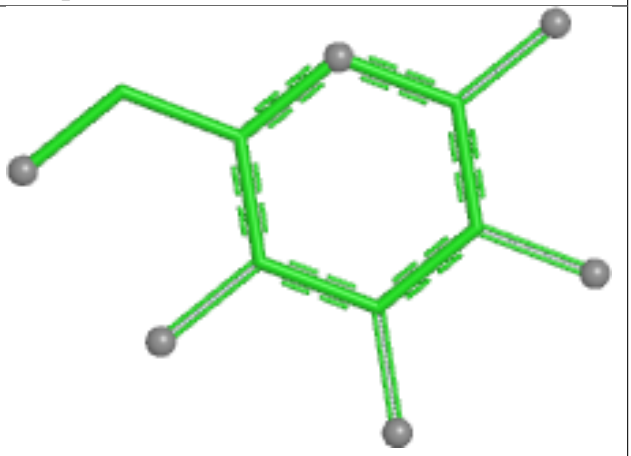

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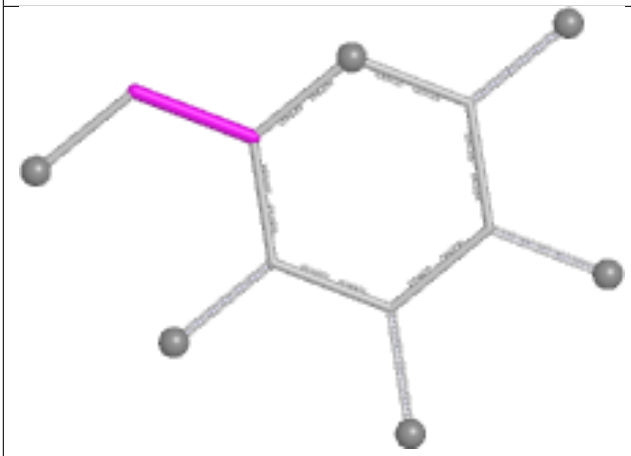

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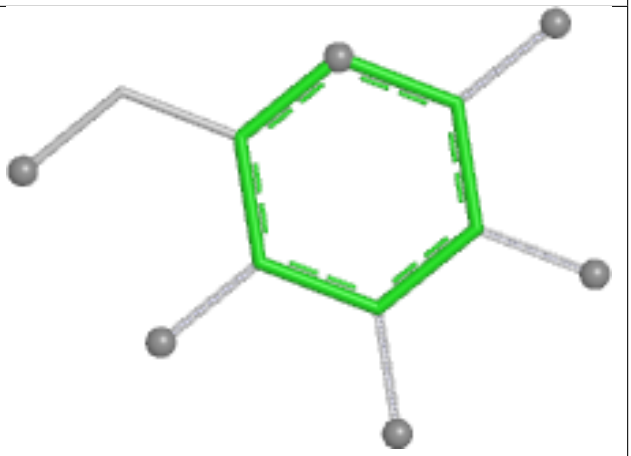

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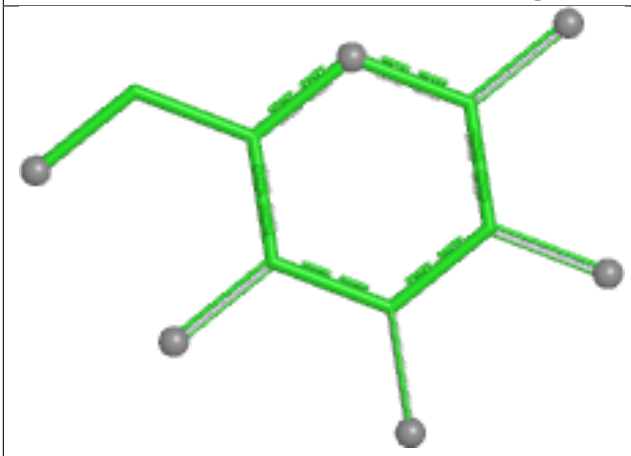

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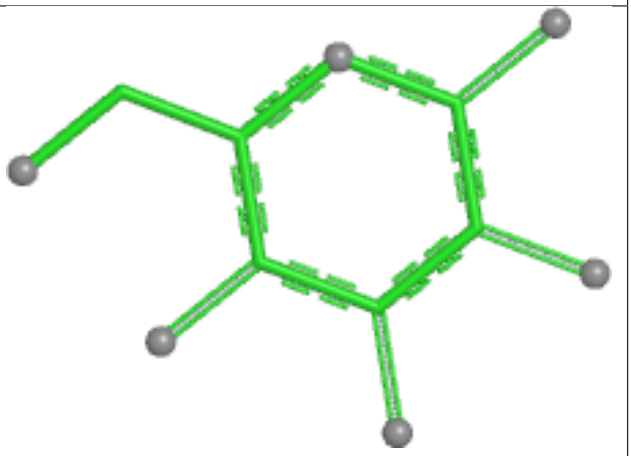

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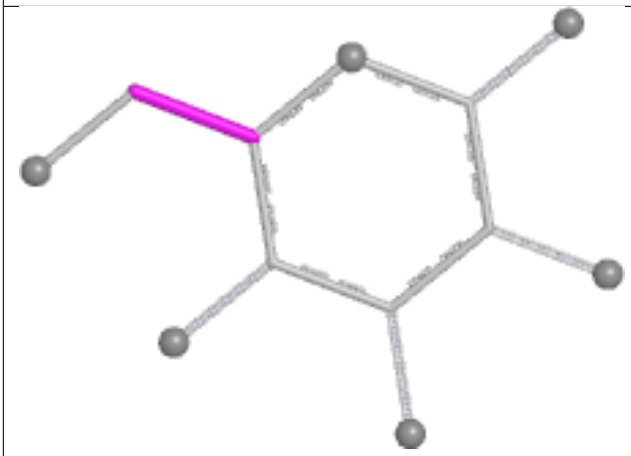

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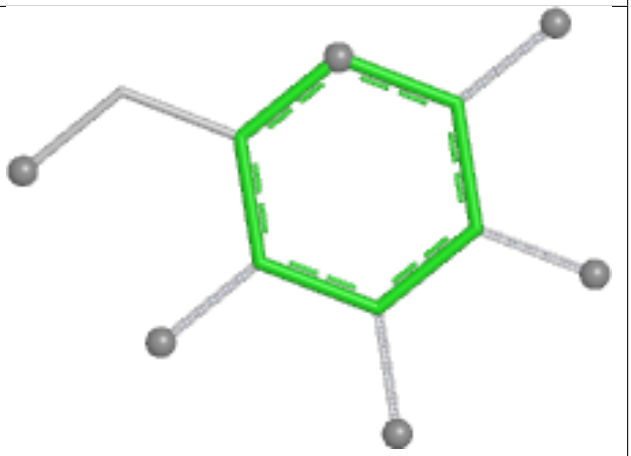

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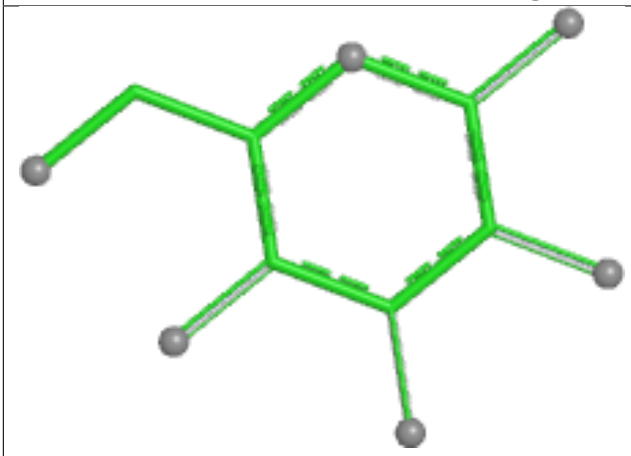

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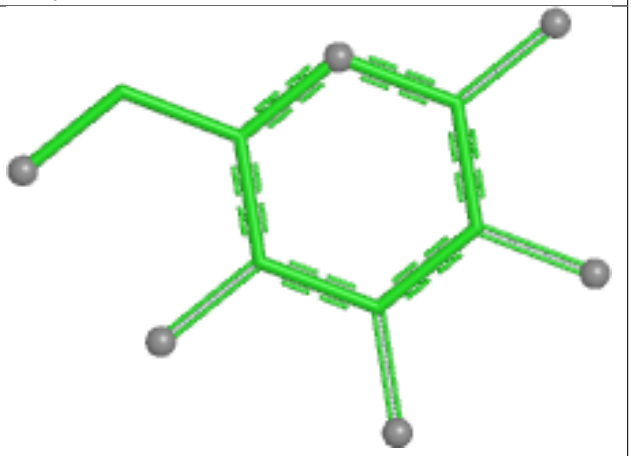

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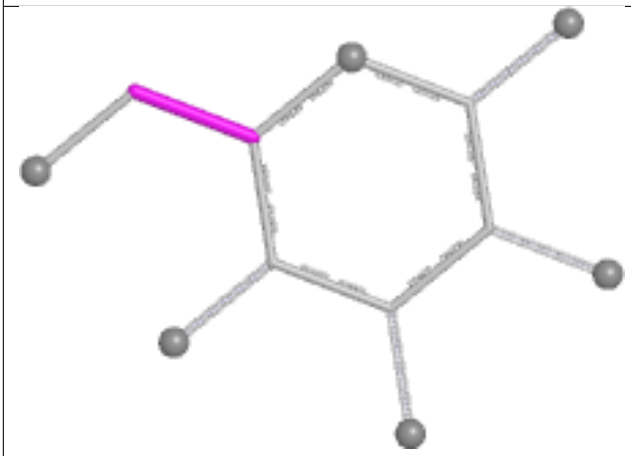

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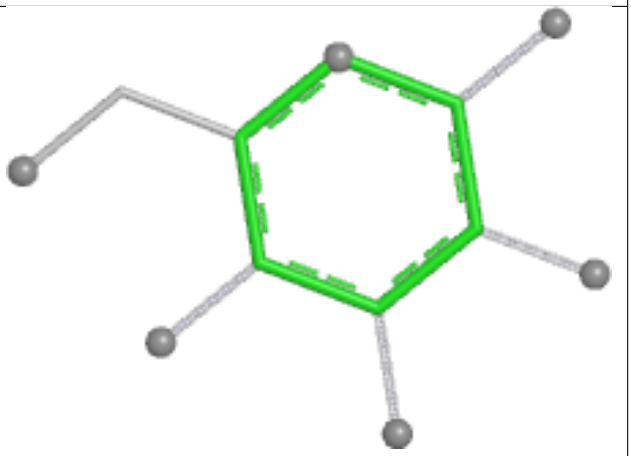

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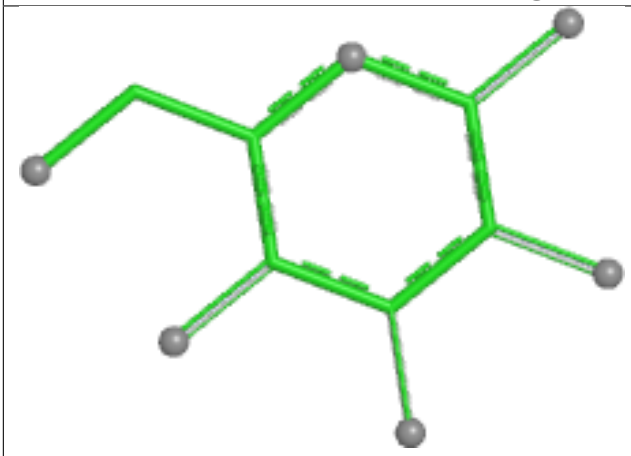

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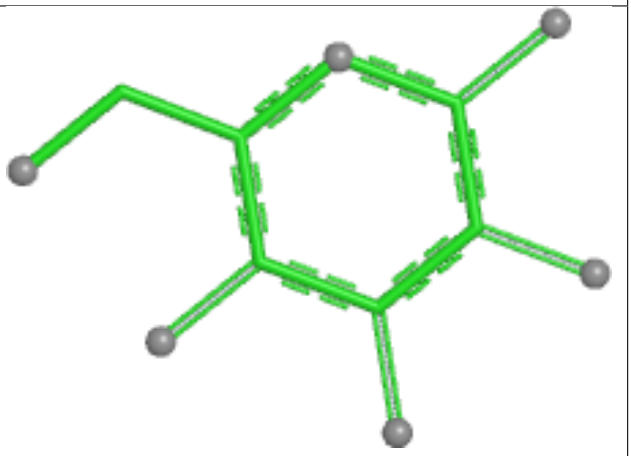

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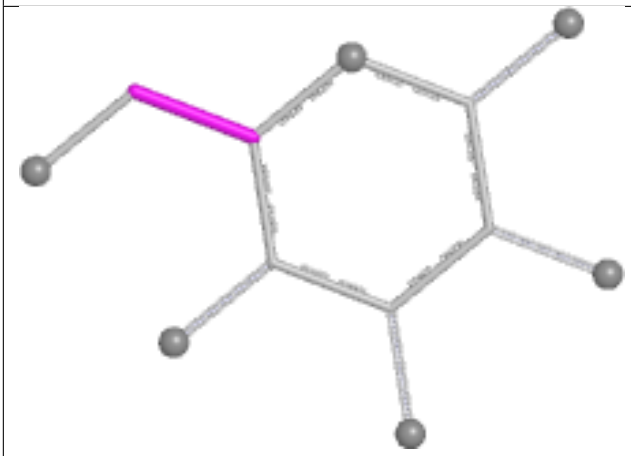

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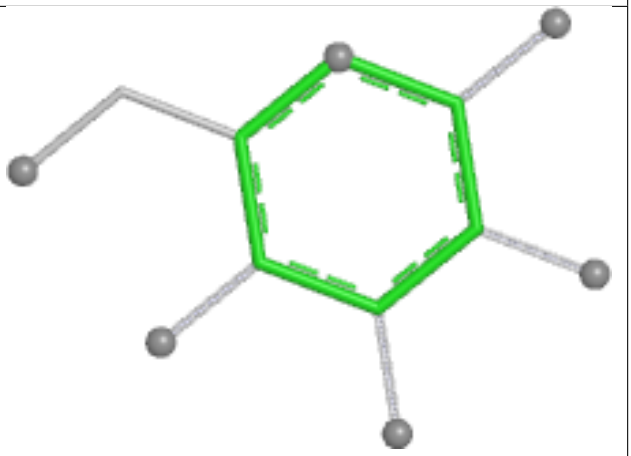

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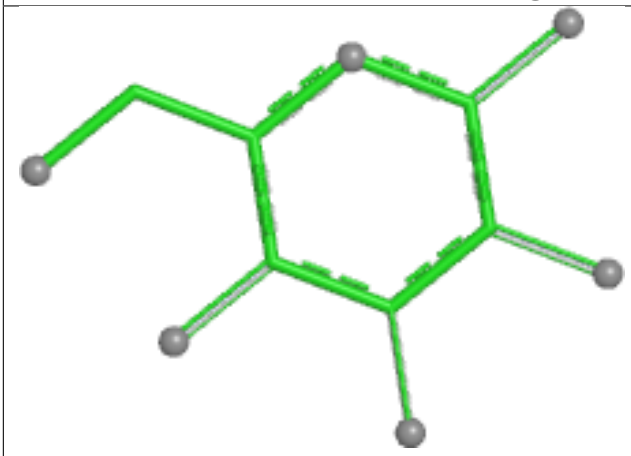

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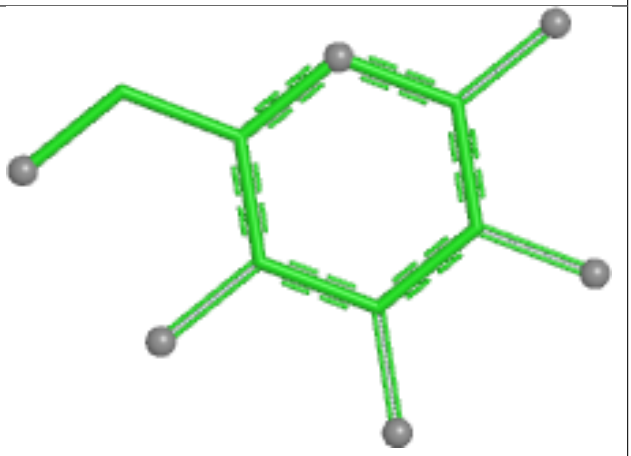

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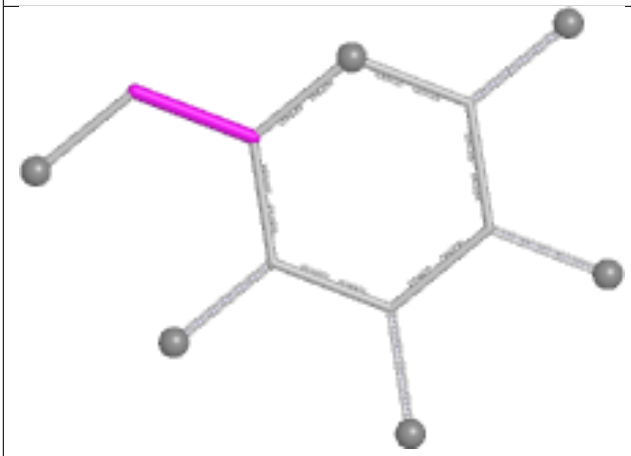

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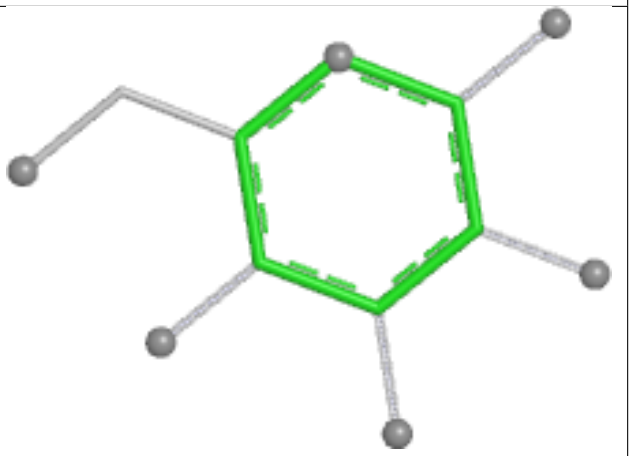

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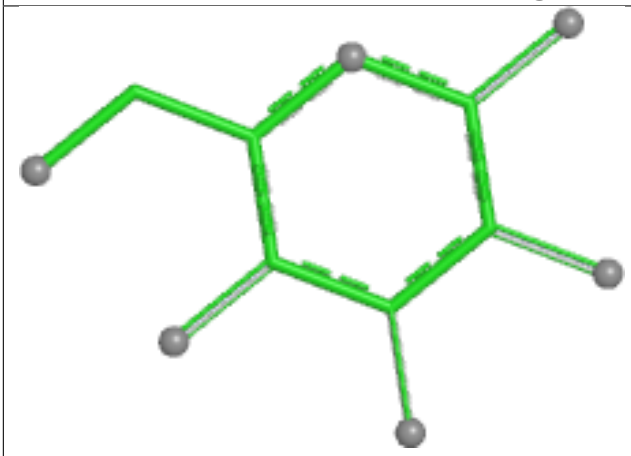

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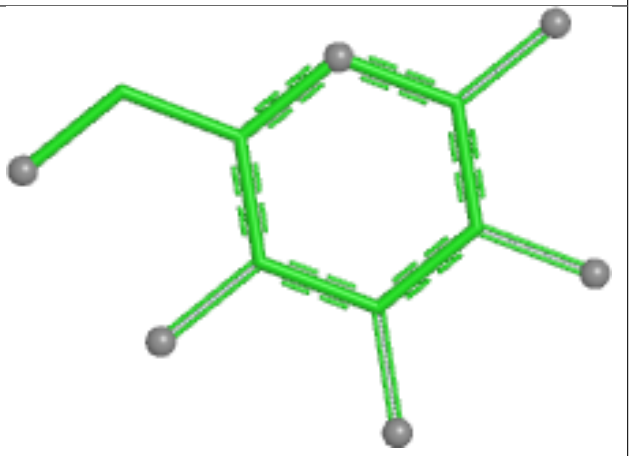

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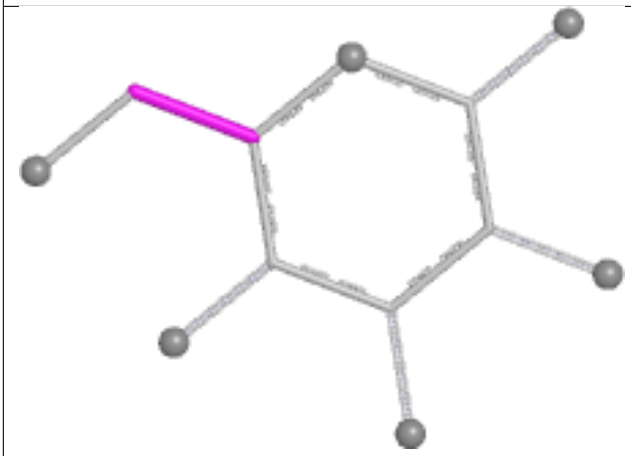

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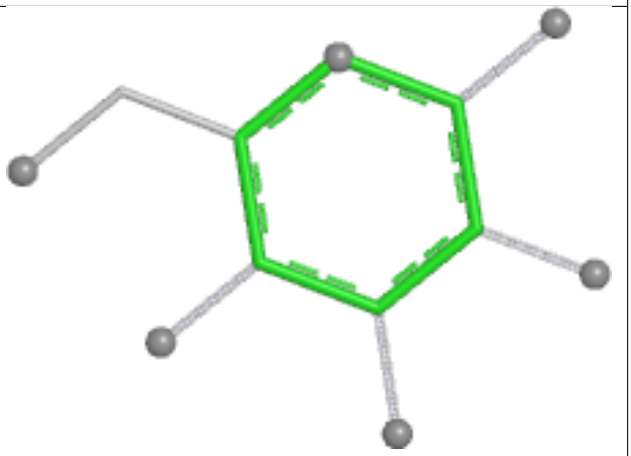

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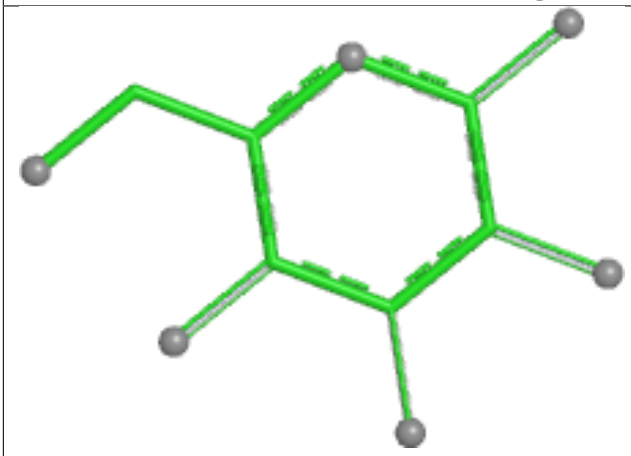

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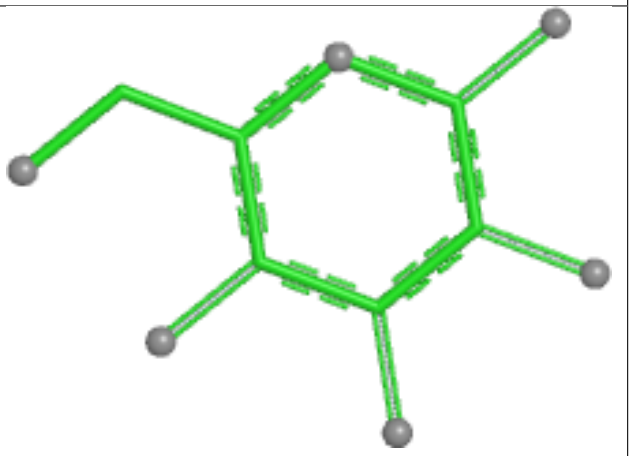

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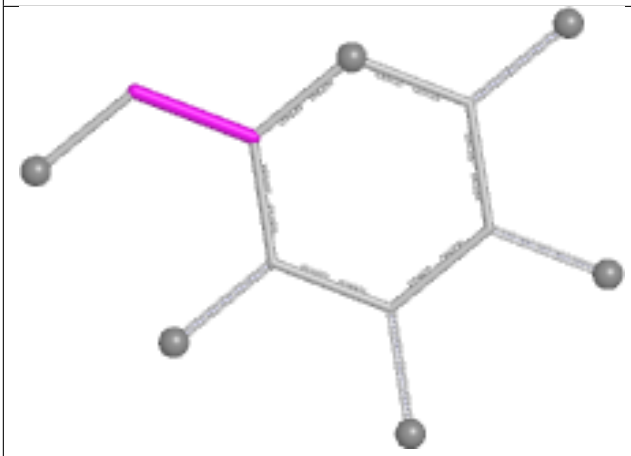

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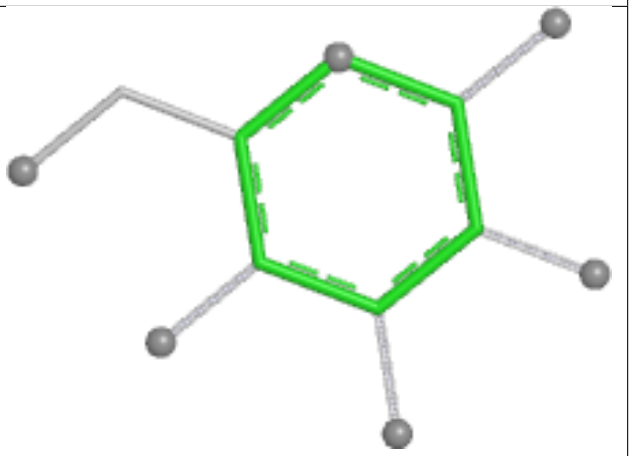

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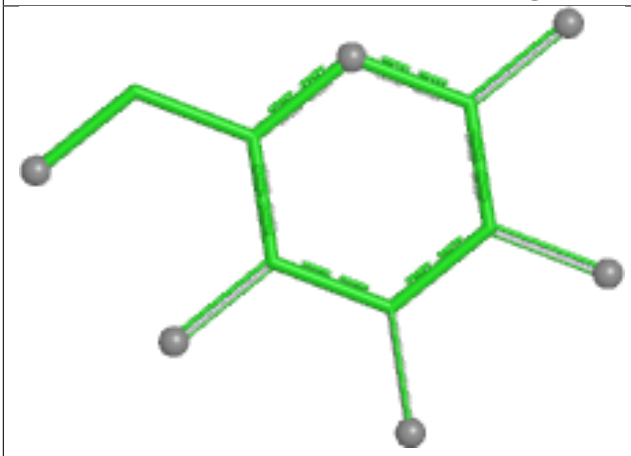

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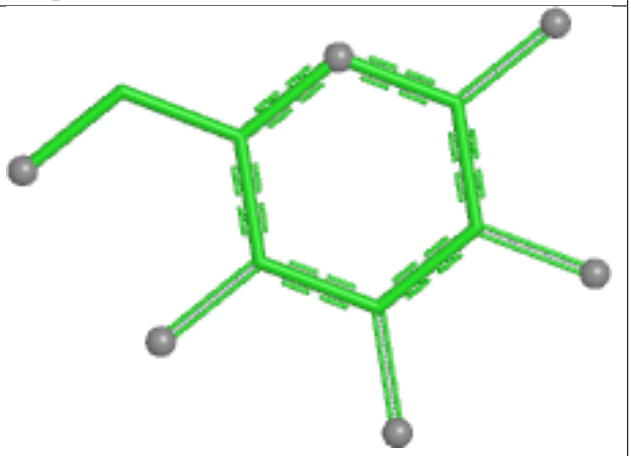

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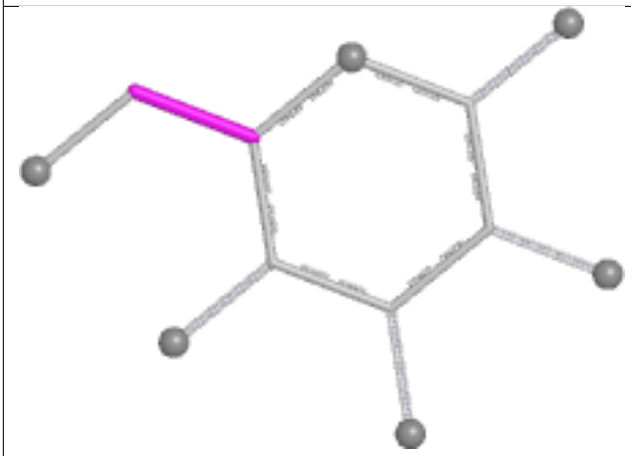

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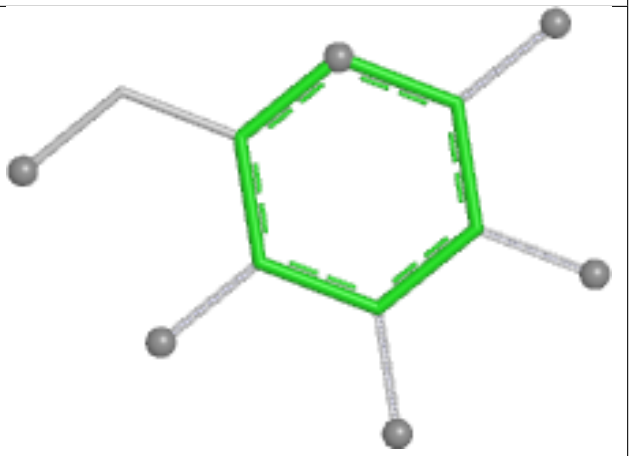

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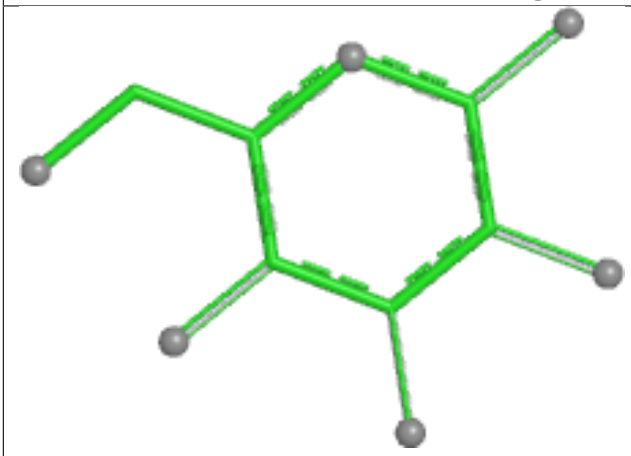

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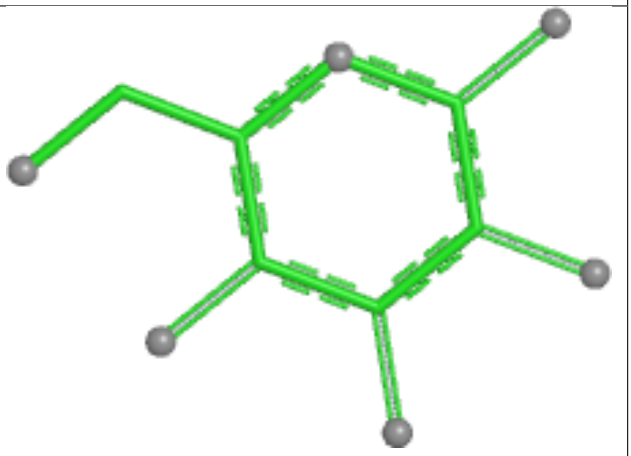

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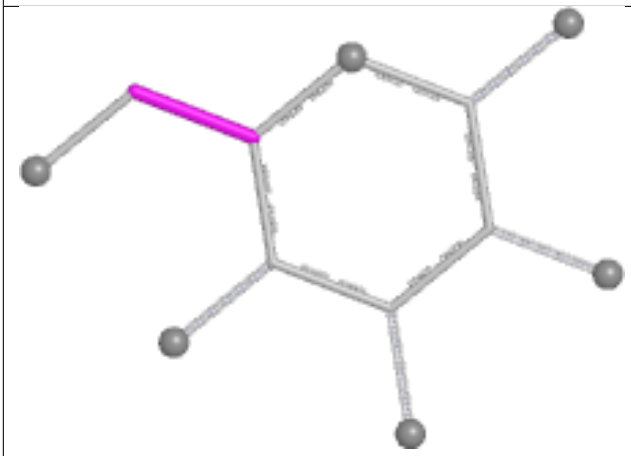

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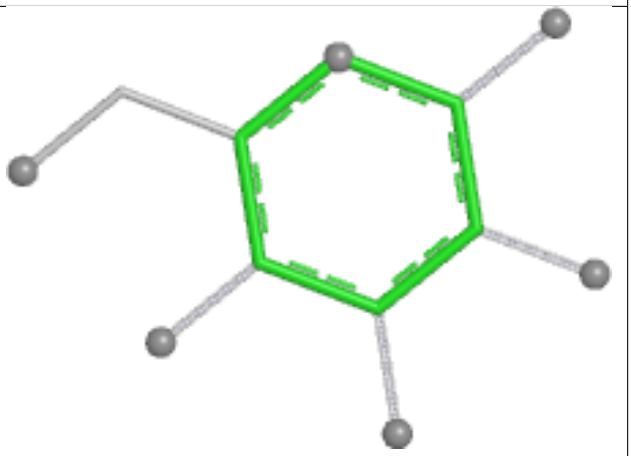

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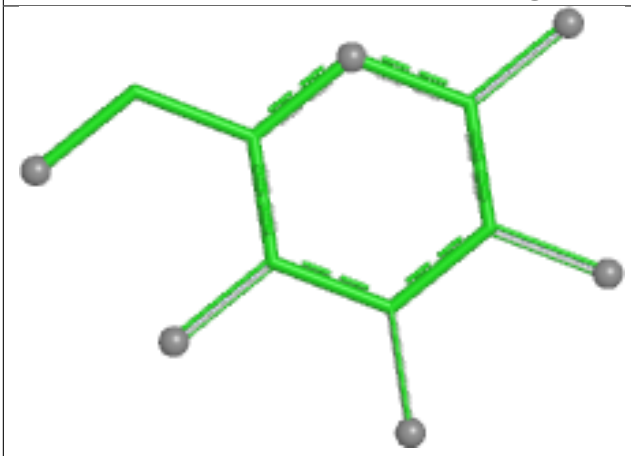

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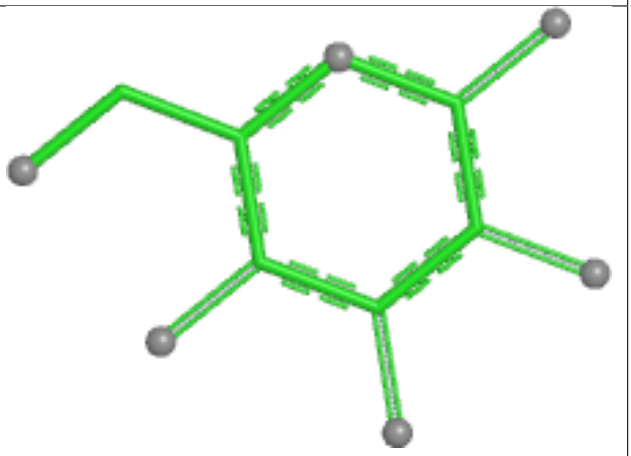

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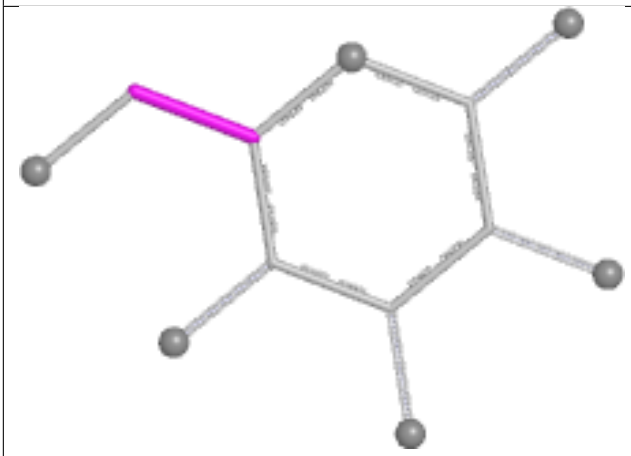

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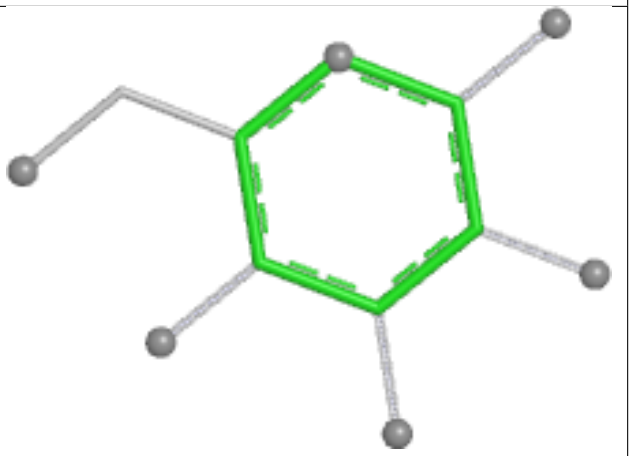

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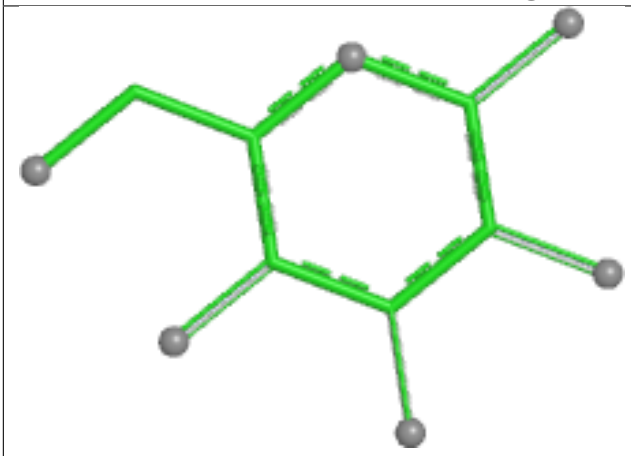

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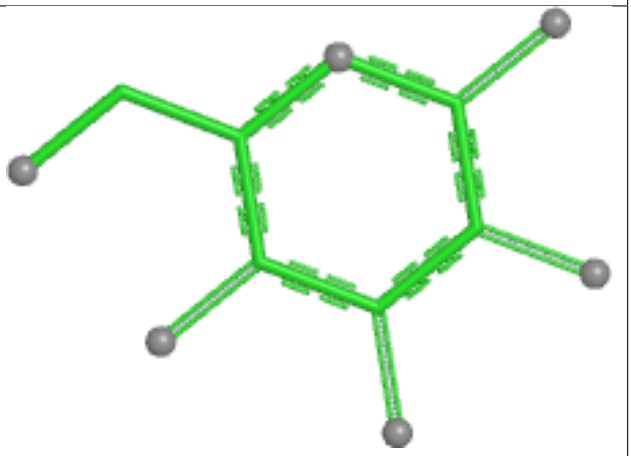

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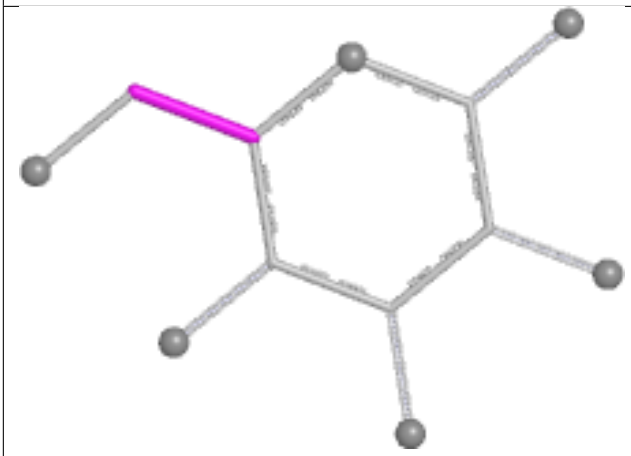

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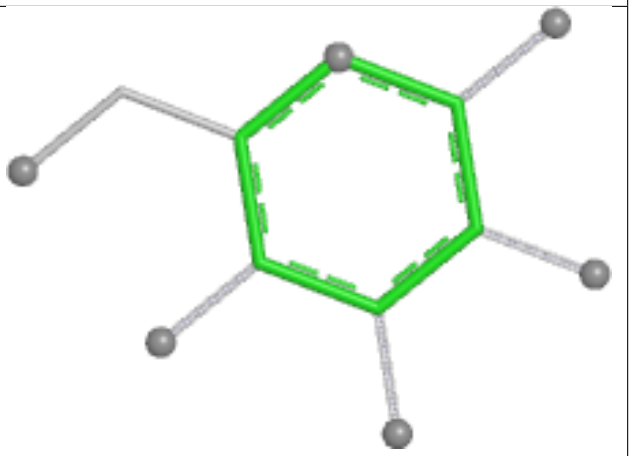

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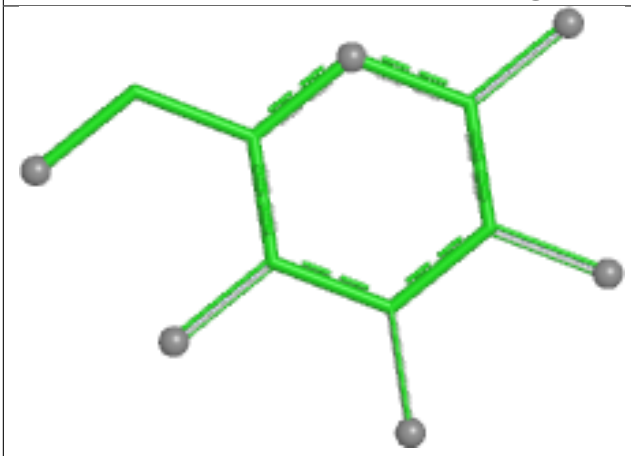
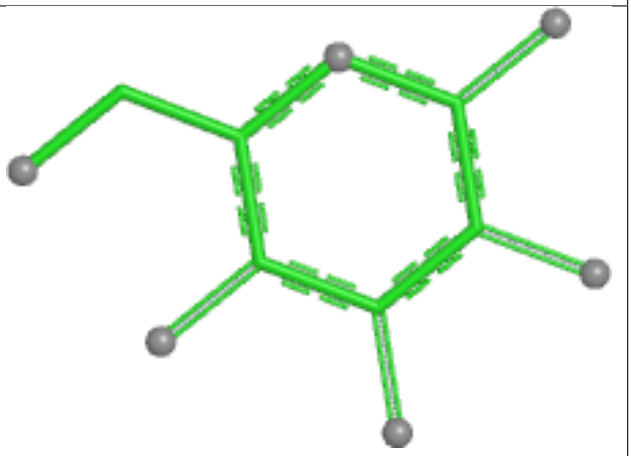
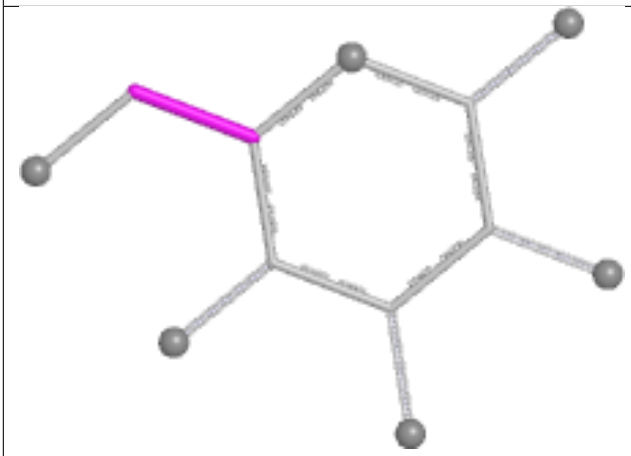


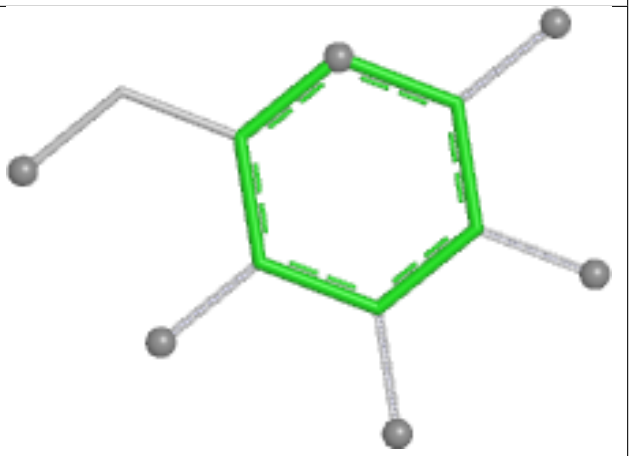
Bond lengths



Bond angles

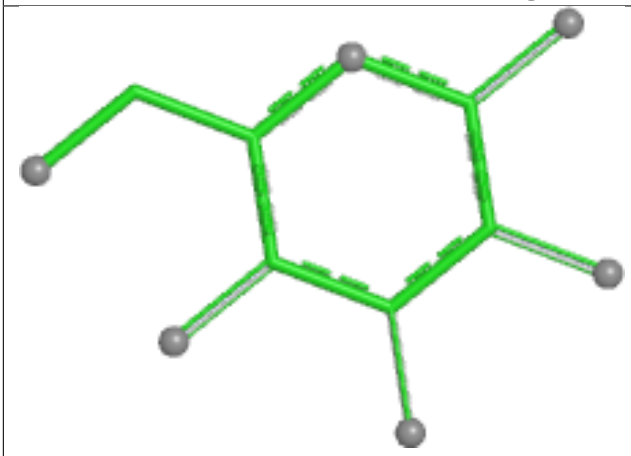


Torsions

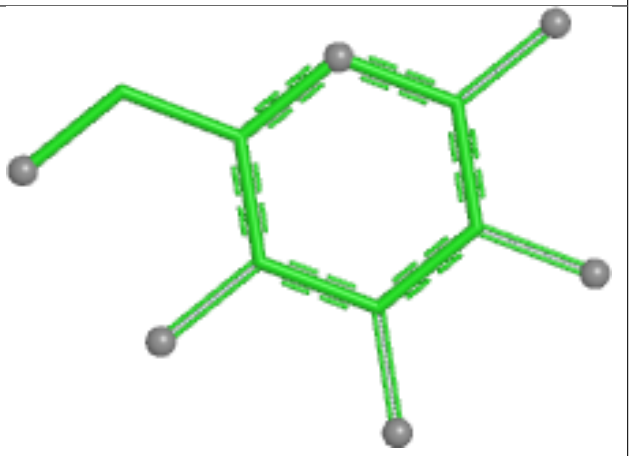


Rings

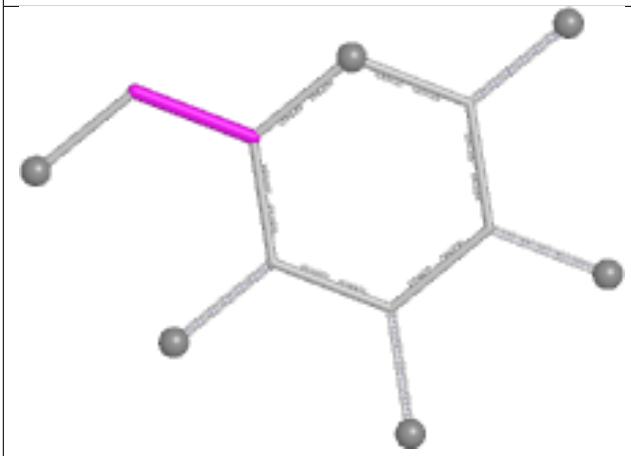
Ligand GAL A 801



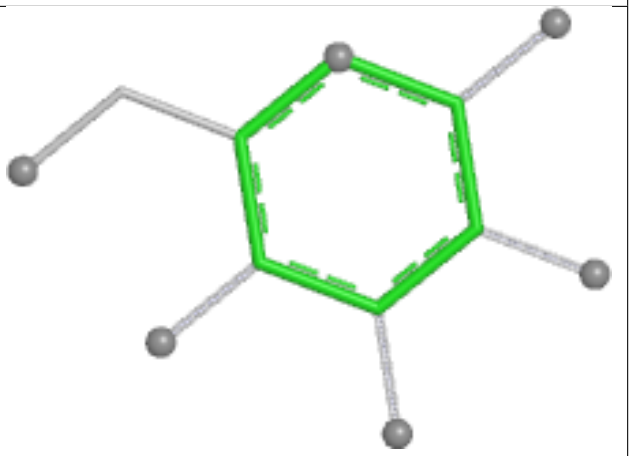
Bond lengths



Bond angles

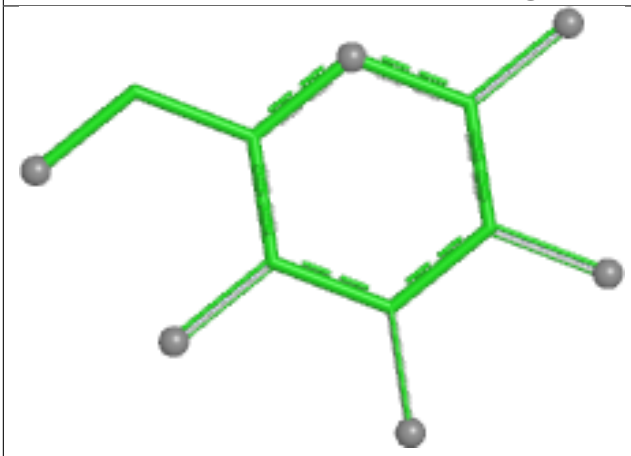


Torsions

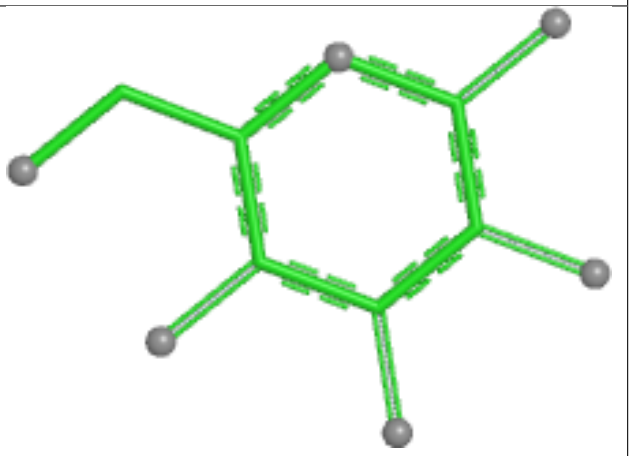


Rings

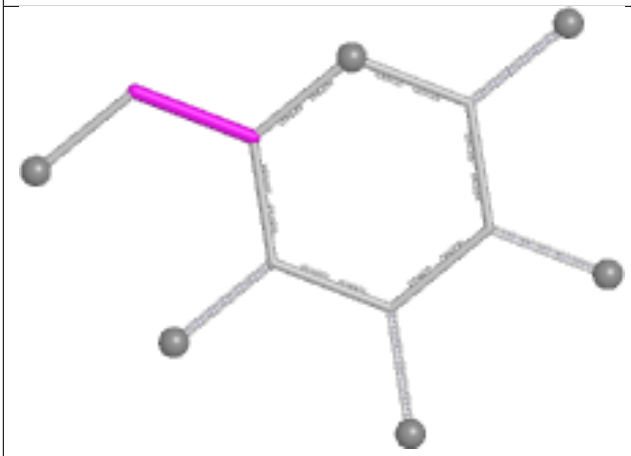
Ligand GAL H 801



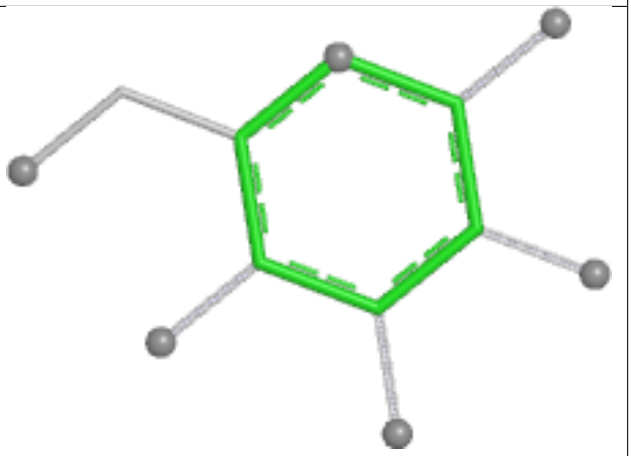
Bond lengths



Bond angles

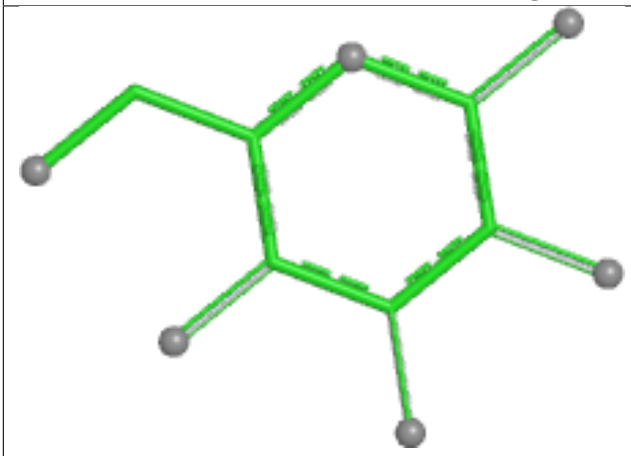


Torsions

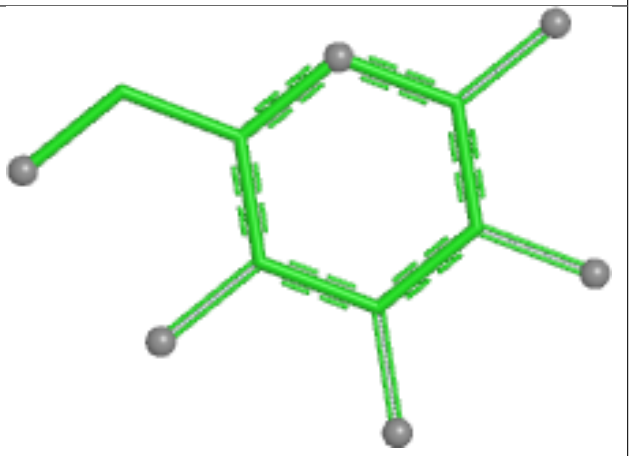


Rings

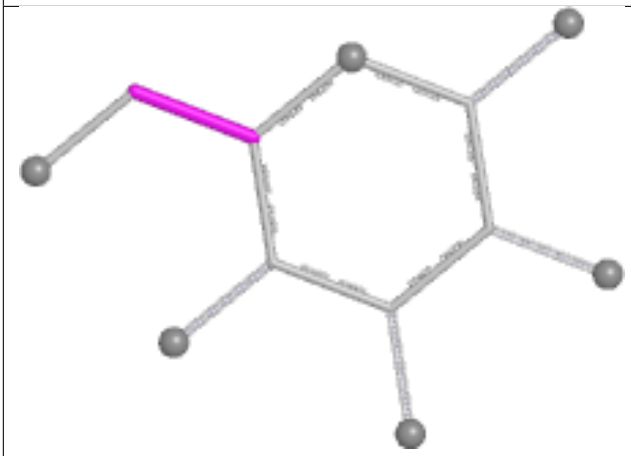
Ligand GAL S 801



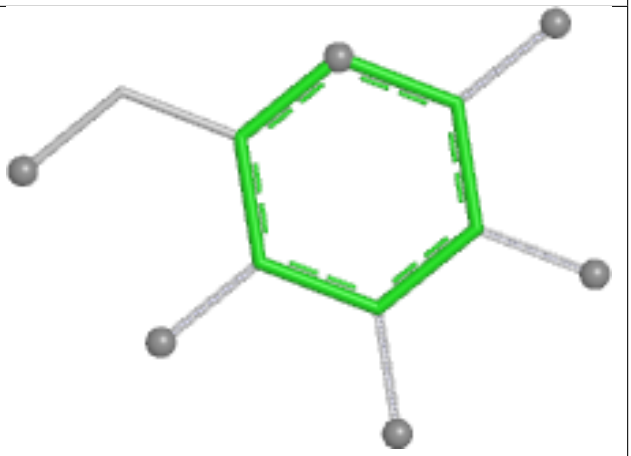
Bond lengths



Bond angles

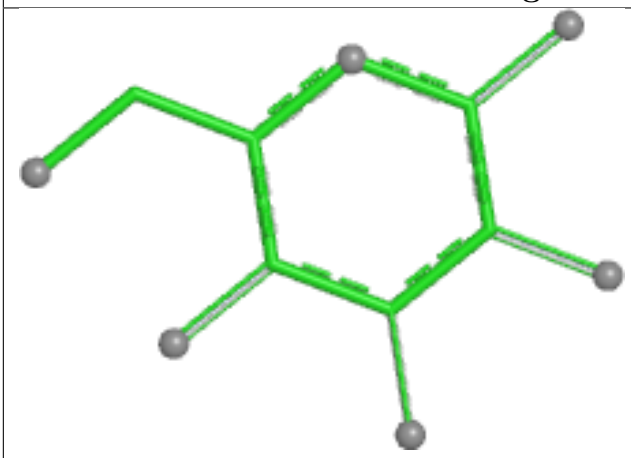


Torsions

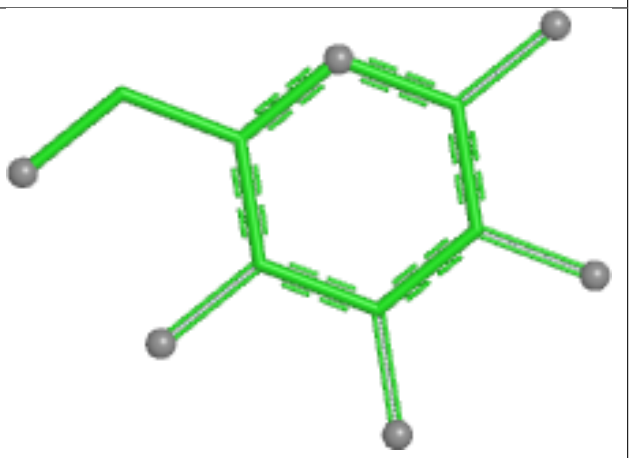


Rings

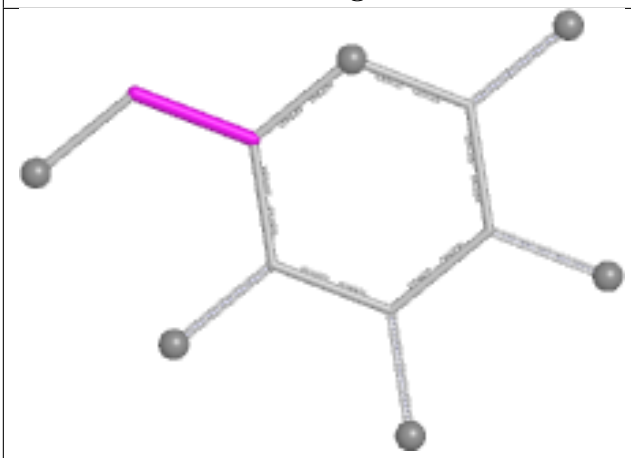
Ligand GAL O 801



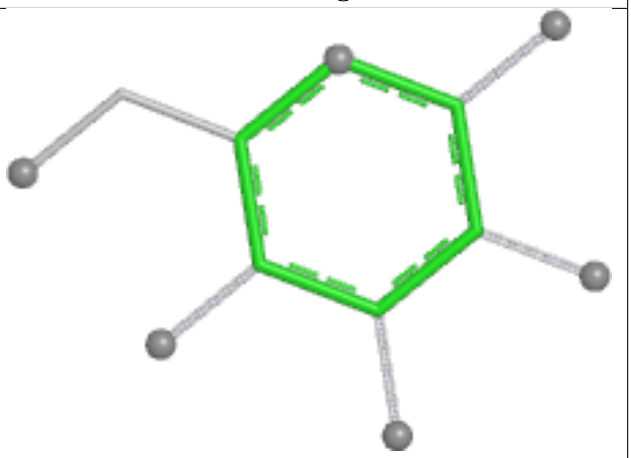
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

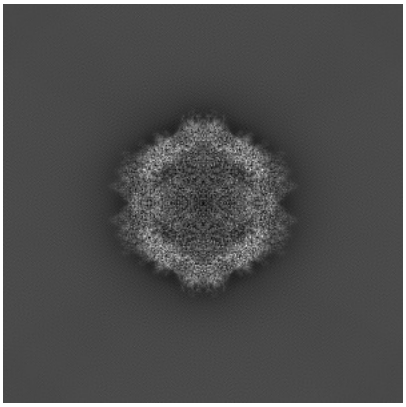
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-24003. These allow visual inspection of the internal detail of the map and identification of artifacts.

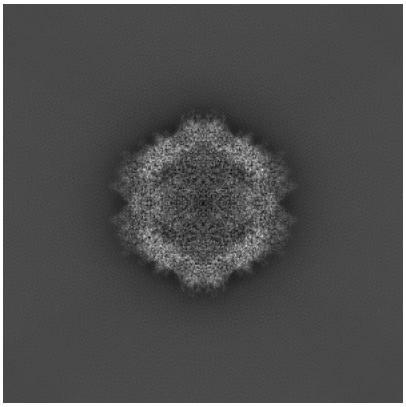
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

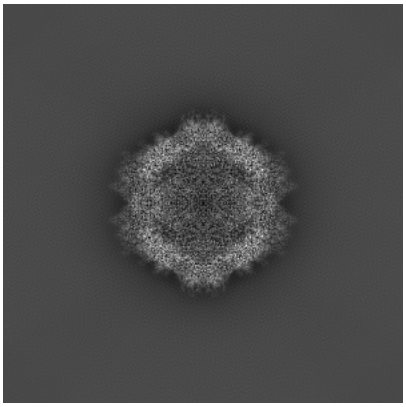
6.1.1 Primary map



X



Y

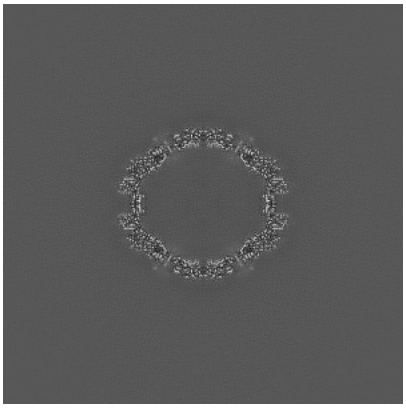


Z

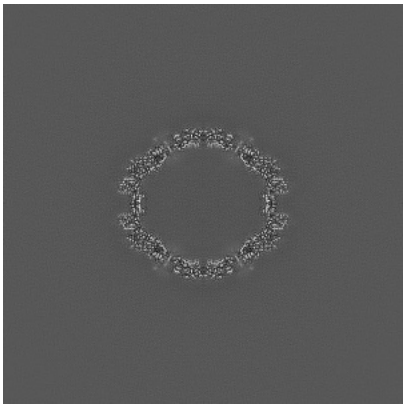
The images above show the map projected in three orthogonal directions.

6.2 Central slices

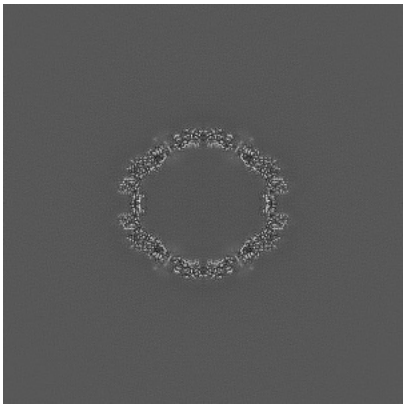
6.2.1 Primary map



X Index: 288



Y Index: 288

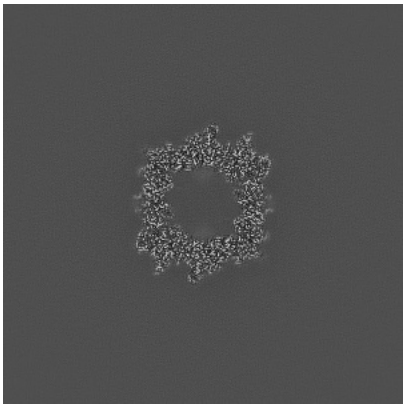


Z Index: 288

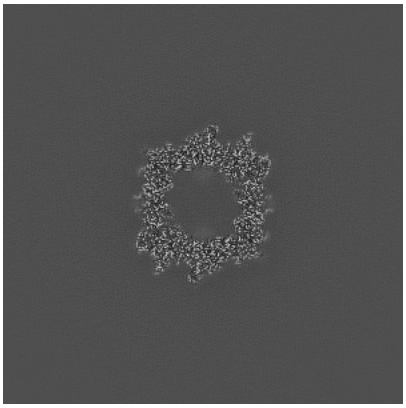
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

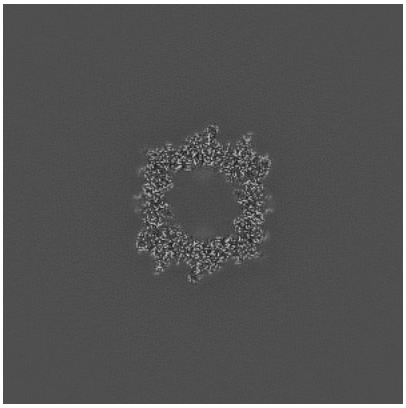
6.3.1 Primary map



X Index: 351



Y Index: 351

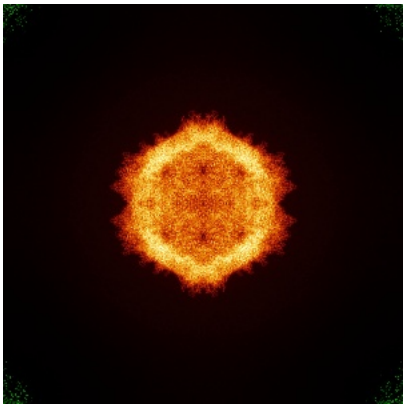


Z Index: 351

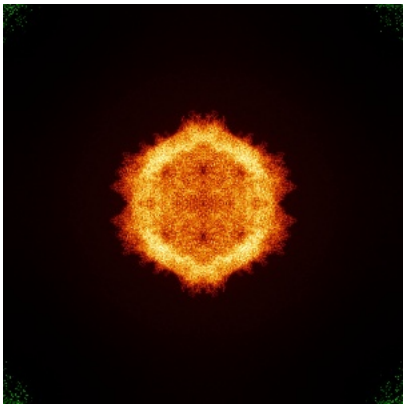
The images above show the largest variance slices of the map in three orthogonal directions.

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

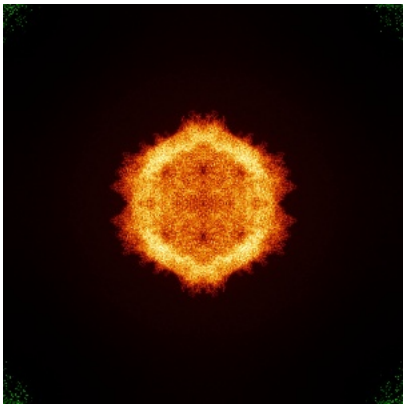
6.4.1 Primary map



X



Y

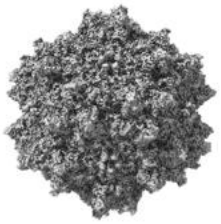


Z

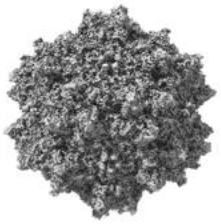
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

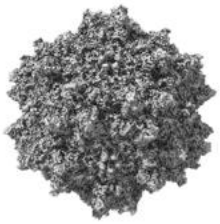
6.5.1 Primary map



X



Y



Z

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

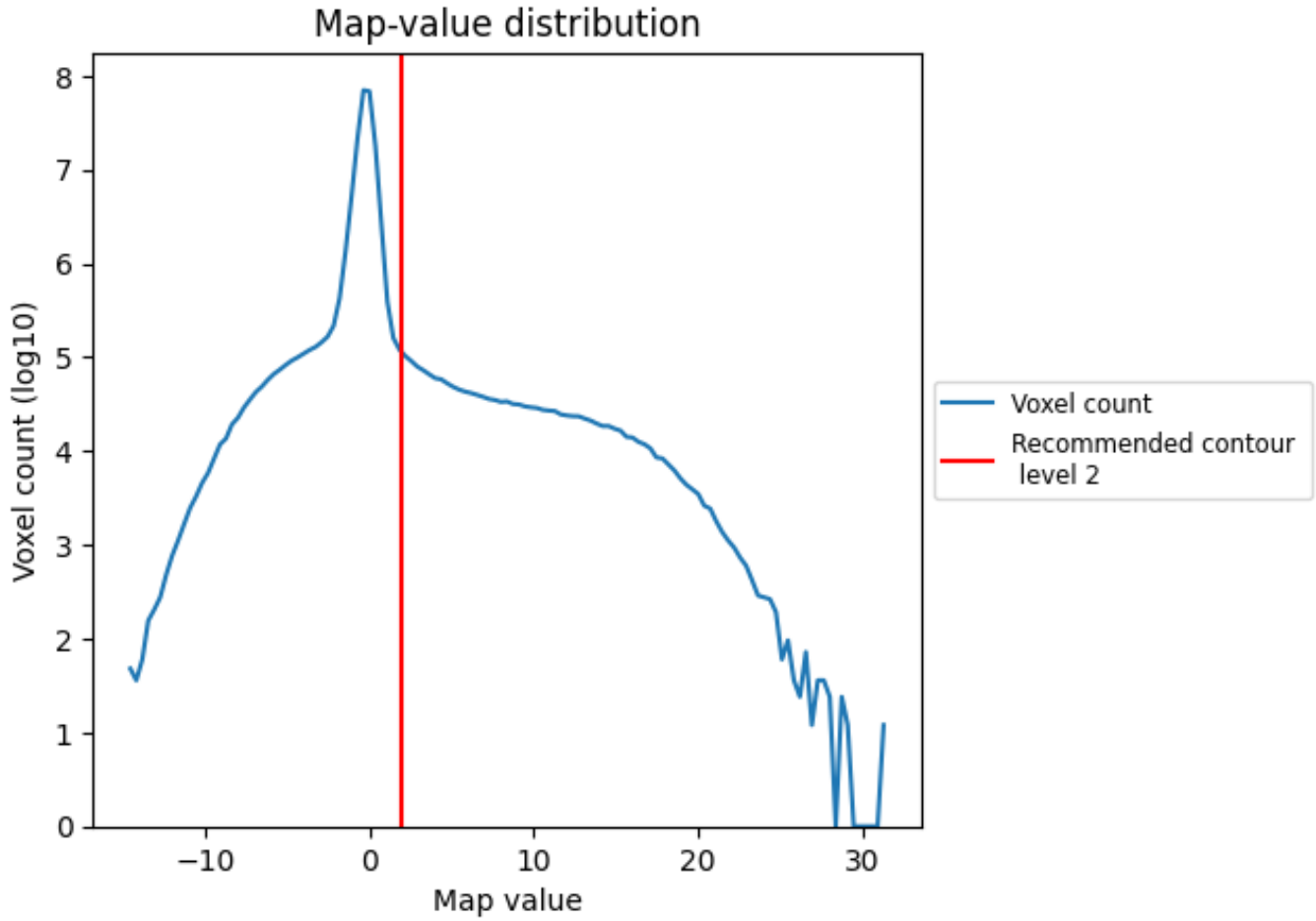
6.6 Mask visualisation (i)

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

7 Map analysis

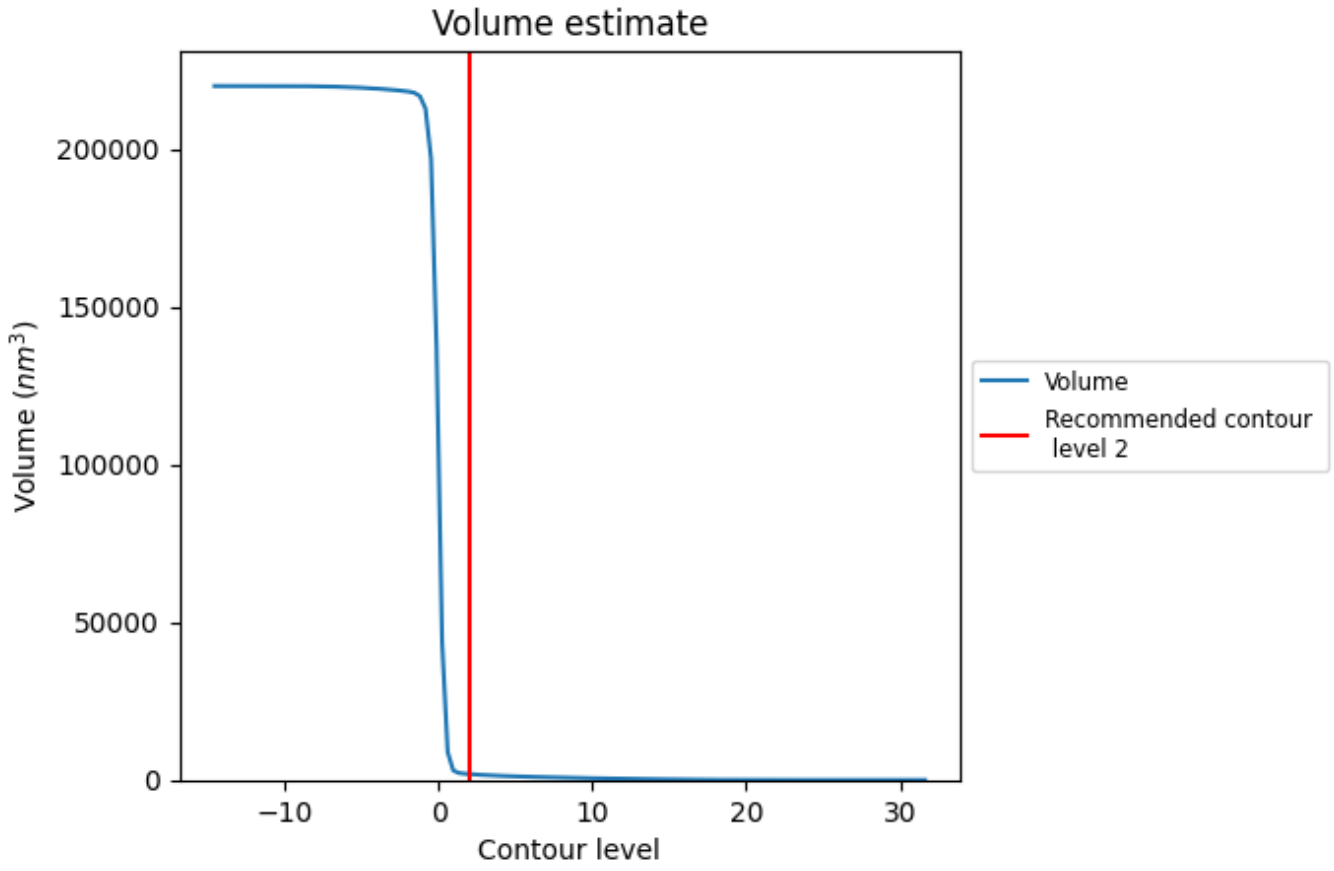
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

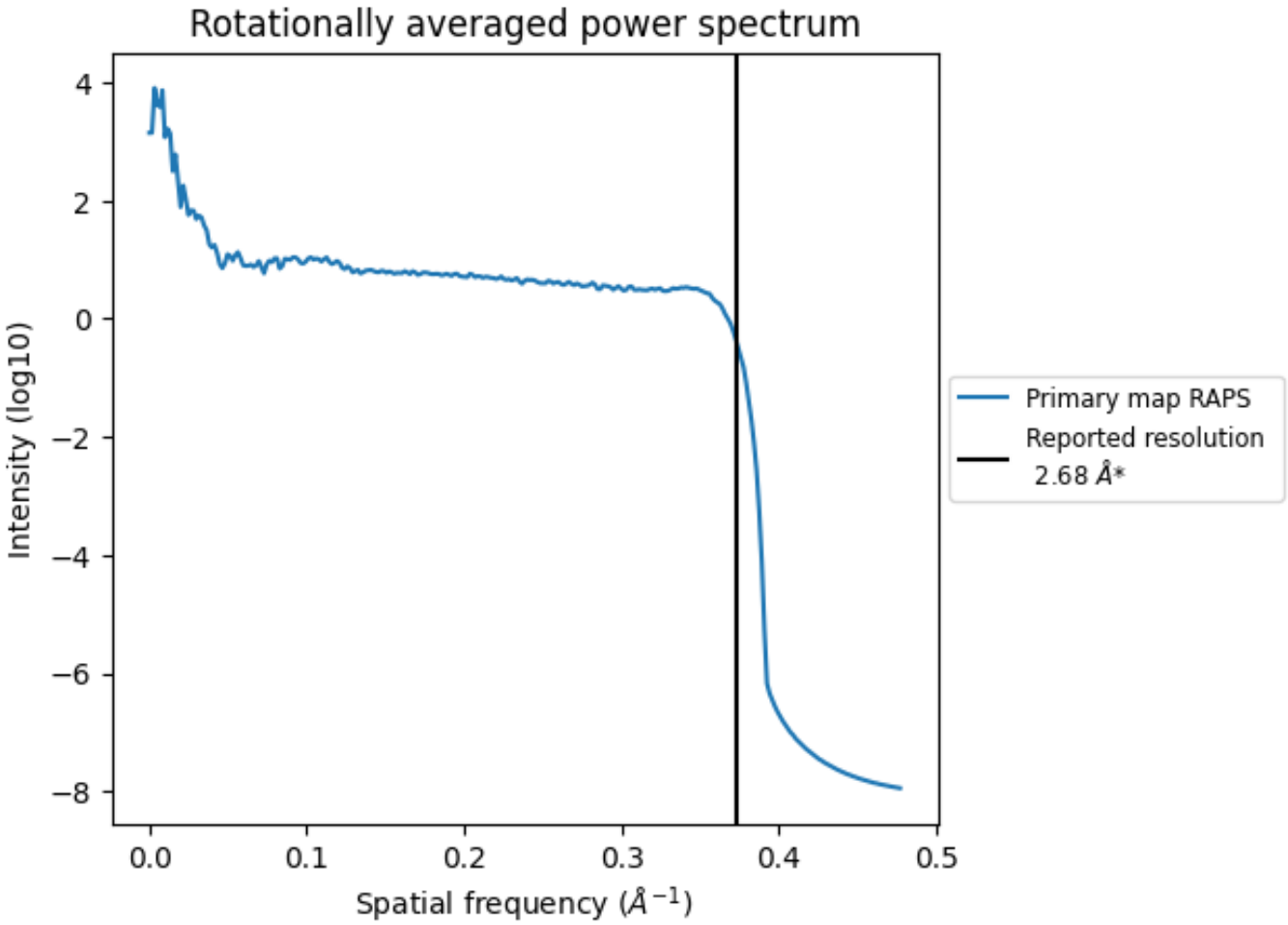
7.2 Volume estimate



The volume at the recommended contour level is 1866 nm^3; this corresponds to an approximate mass of 1686 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.373 Å^{-1}

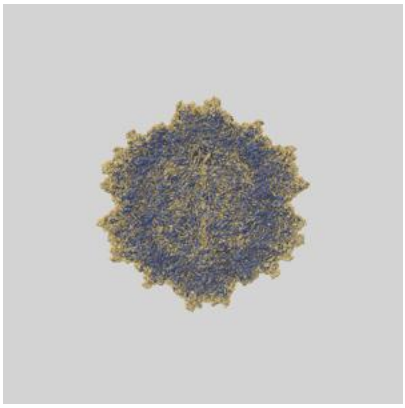
8 Fourier-Shell correlation

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

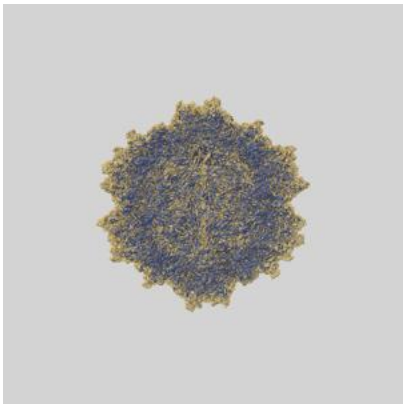
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-24003 and PDB model 7MUA. Per-residue inclusion information can be found in section 3 on page 13.

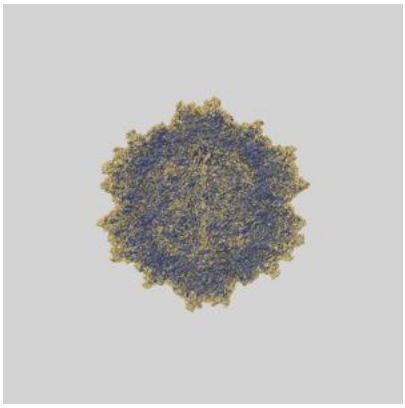
9.1 Map-model overlay



X



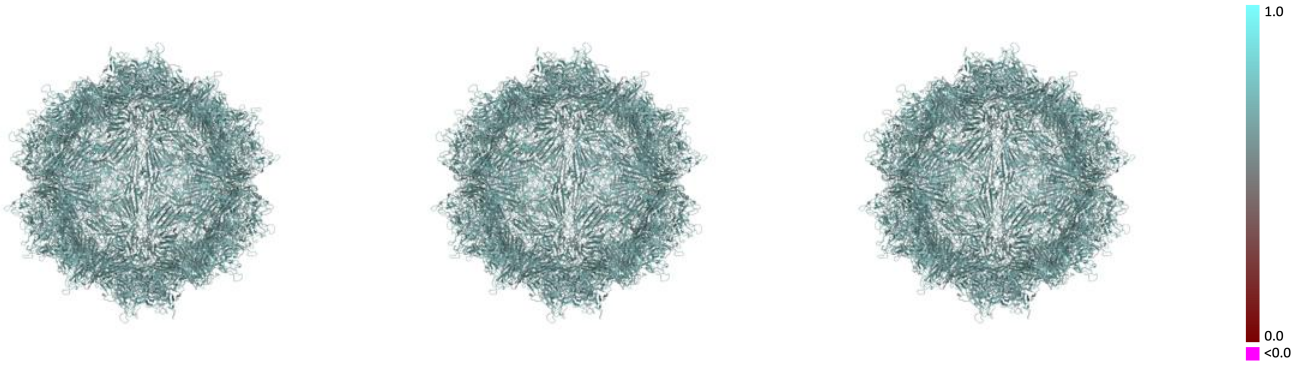
Y



Z

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

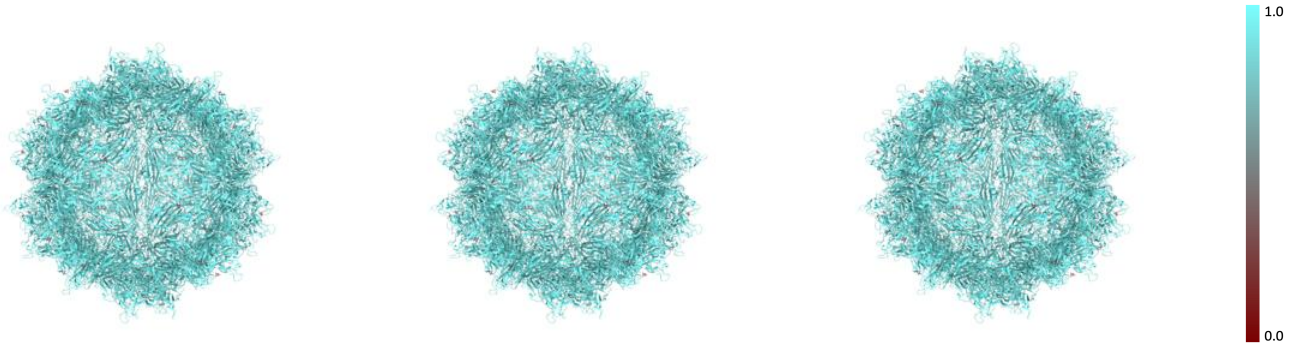
9.2 Q-score mapped to coordinate model



X Y Z

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

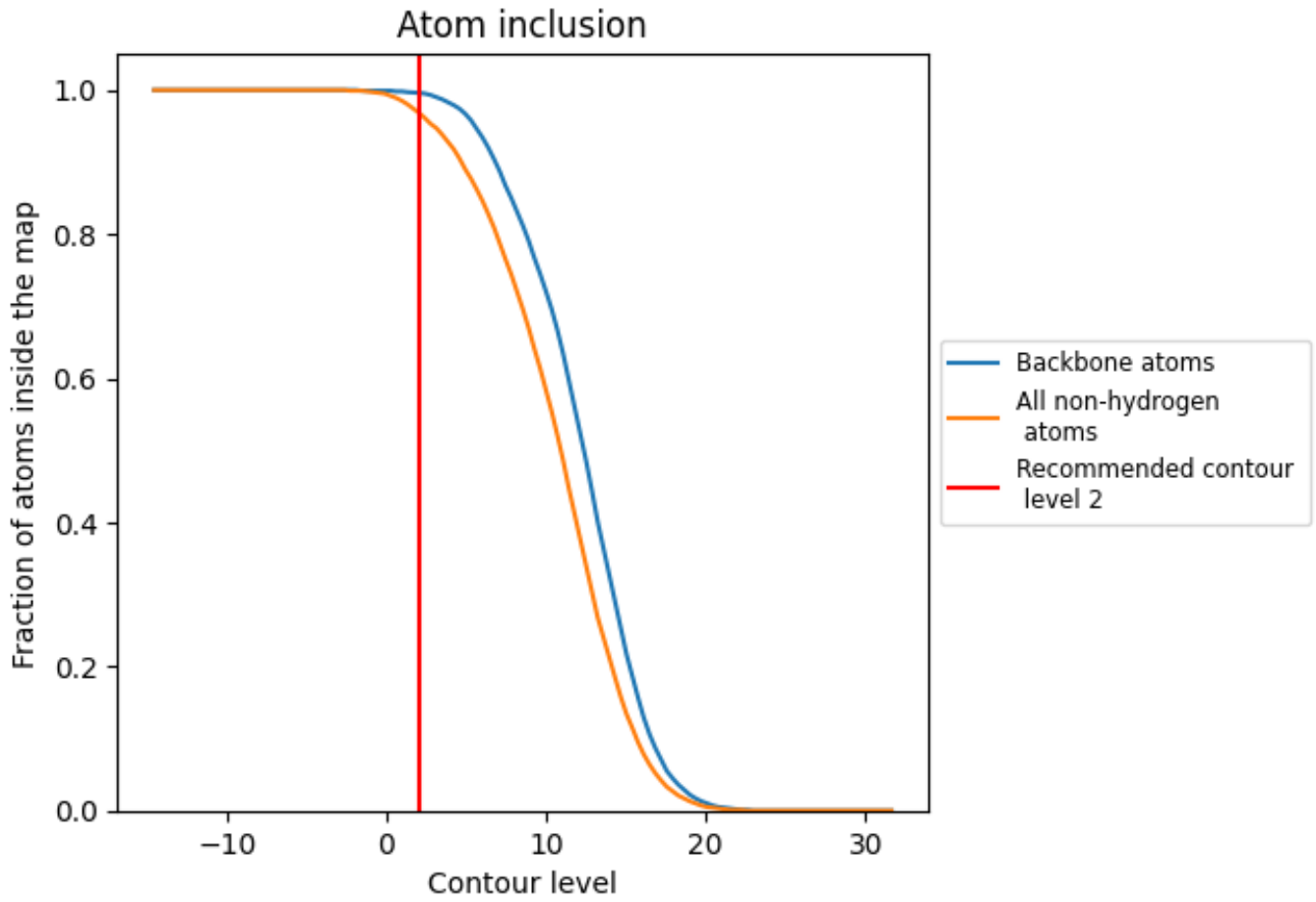
9.3 Atom inclusion mapped to coordinate model



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 100% of all backbone atoms, 97% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	0.9690	0.6540
1	0.9710	0.6540
2	0.9710	0.6540
3	0.9710	0.6530
4	0.9710	0.6550
5	0.9710	0.6540
6	0.9710	0.6540
7	0.9700	0.6530
8	0.9690	0.6540
A	0.9710	0.6530
B	0.9690	0.6550
C	0.9690	0.6540
D	0.9700	0.6540
E	0.9690	0.6530
F	0.9710	0.6550
G	0.9690	0.6540
H	0.9700	0.6550
I	0.9690	0.6530
J	0.9690	0.6540
K	0.9690	0.6530
L	0.9690	0.6550
M	0.9690	0.6540
N	0.9700	0.6540
O	0.9690	0.6540
P	0.9700	0.6530
Q	0.9690	0.6530
R	0.9690	0.6540
S	0.9690	0.6540
T	0.9690	0.6540
U	0.9690	0.6550
V	0.9690	0.6530
W	0.9700	0.6540
X	0.9690	0.6530
Y	0.9700	0.6540
Z	0.9690	0.6540

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
a	0.9690	0.6530
b	0.9690	0.6530
c	0.9700	0.6550
d	0.9700	0.6540
e	0.9700	0.6530
f	0.9690	0.6540
g	0.9690	0.6540
h	0.9710	0.6550
i	0.9690	0.6530
j	0.9690	0.6540
k	0.9690	0.6540
l	0.9690	0.6540
m	0.9690	0.6550
n	0.9690	0.6530
o	0.9690	0.6530
p	0.9710	0.6540
q	0.9690	0.6520
r	0.9690	0.6530
s	0.9710	0.6540
t	0.9690	0.6540
u	0.9690	0.6550
v	0.9690	0.6540
w	0.9710	0.6540
x	0.9690	0.6530
y	0.9700	0.6530
z	0.9700	0.6540