



## Full wwPDB EM Validation Report ⓘ

May 26, 2025 – 03:25 PM EDT

PDB ID : 7MTZ / pdb\_00007mtz  
EMDB ID : EMD-24000  
Title : Structure of the adeno-associated virus 9 capsid at pH pH 7.4 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 : 2.43 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](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev118  
Mogul : 2022.3.0, CSD as543be (2022)  
MolProbity : 4-5-2 with Phenix2.0rc1  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.43.1

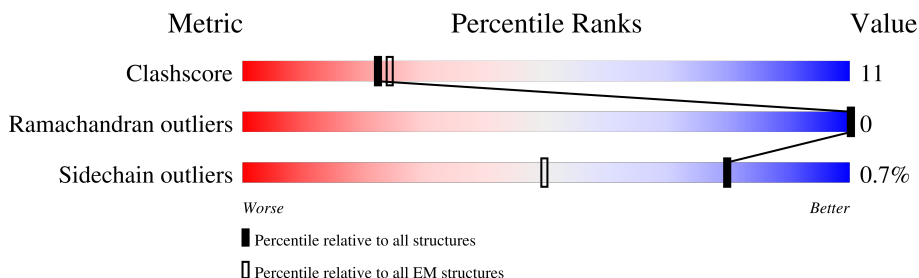
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 2.43 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.






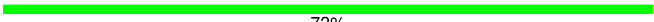
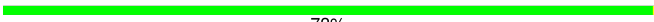
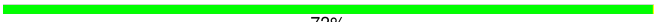
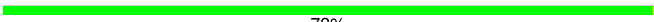


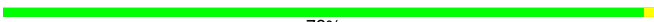















Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	518	73% 27%
1	2	518	72% 27%
1	3	518	74% 26%
1	4	518	73% 26%
1	5	518	73% 26%
1	6	518	72% 27%
1	7	518	74% 26%
1	8	518	73% 27%
















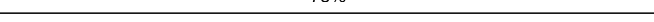
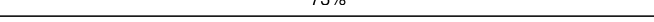
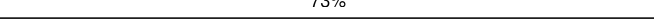
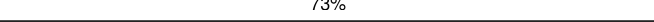
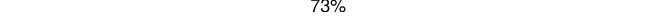
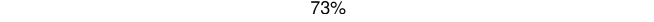
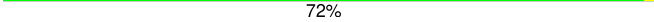
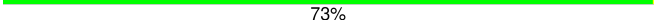

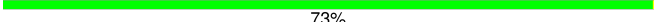
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Mol	Chain	Length	Quality of chain	
1	A	518		27%
1	B	518		27%
1	C	518		27%
1	D	518		26%
1	E	518		27%
1	F	518		27%
1	G	518		27%
1	H	518		27%
1	I	518		26%
1	J	518		27%
1	K	518		27%
1	L	518		27%
1	M	518		27%
1	N	518		27%
1	O	518		27%
1	P	518		27%
1	Q	518		27%
1	R	518		27%
1	S	518		27%
1	T	518		27%
1	U	518		28%
1	V	518		26%
1	W	518		27%
1	X	518		27%
1	Y	518		26%

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Mol	Chain	Length	Quality of chain	
1	Z	518		27%
1	a	518		27%
1	b	518		28%
1	c	518		27%
1	d	518		27%
1	e	518		26%
1	f	518		27%
1	g	518		27%
1	h	518		26%
1	i	518		27%
1	j	518		27%
1	k	518		27%
1	l	518		27%
1	m	518		28%
1	n	518		27%
1	o	518		27%
1	p	518		27%
1	q	518		27%
1	r	518		27%
1	s	518		27%
1	t	518		27%
1	u	518		27%
1	v	518		28%
1	w	518		27%
1	x	518		27%

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Mol	Chain	Length	Quality of chain	
1	y	518	<div><div></div></div>	27%
1	z	518	<div><div></div></div>	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 4131	C 2608	N 718	O 791	S 14	0	0
1	h	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	i	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	j	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	k	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	l	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	m	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	n	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	o	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	p	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	q	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
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	7	518	Total 4131	C 2608	N 718	O 791	S 14	0	0

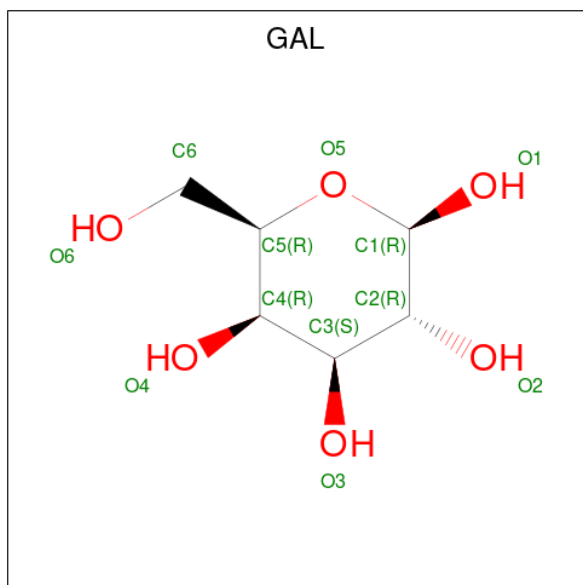
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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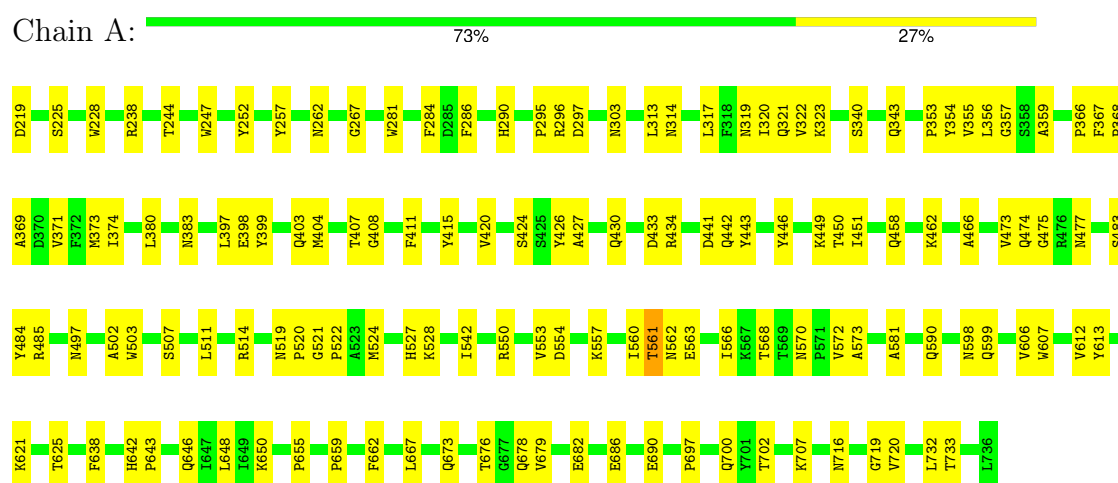
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Mol	Chain	Residues	Atoms			AltConf
2	u	1	Total	C	O	0
			12	6	6	
2	v	1	Total	C	O	0
			12	6	6	
2	w	1	Total	C	O	0
			12	6	6	
2	x	1	Total	C	O	0
			12	6	6	
2	y	1	Total	C	O	0
			12	6	6	
2	z	1	Total	C	O	0
			12	6	6	
2	7	1	Total	C	O	0
			12	6	6	
2	8	1	Total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

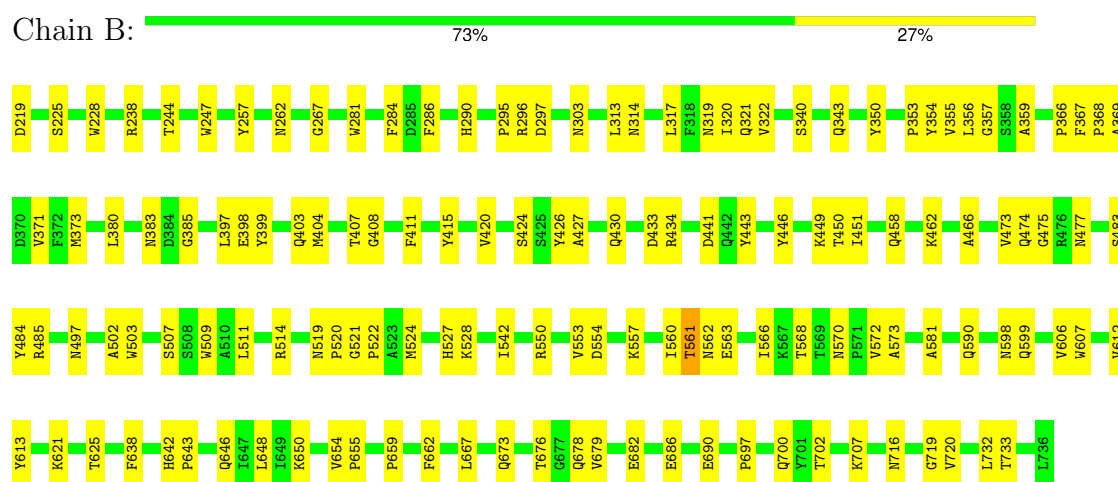
### 3 Residue-property plots

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

#### • Molecule 1: Capsid protein VP1

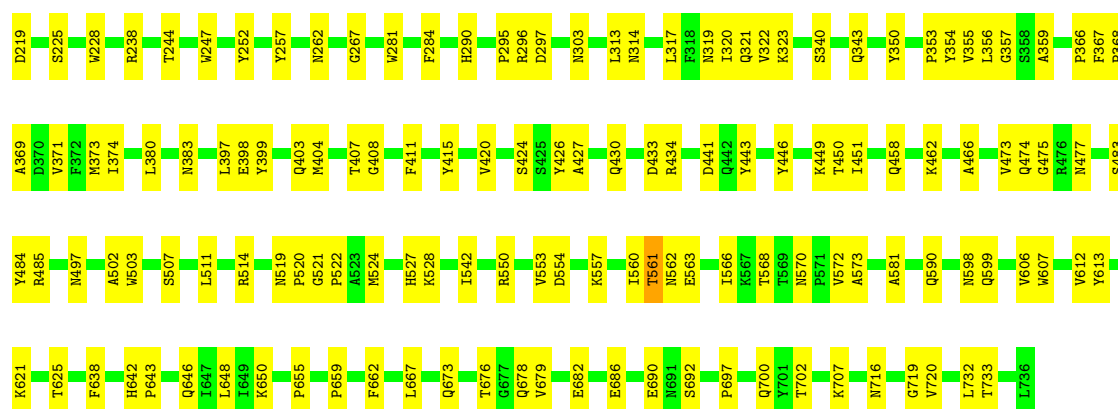


#### • Molecule 1: Capsid protein VP1

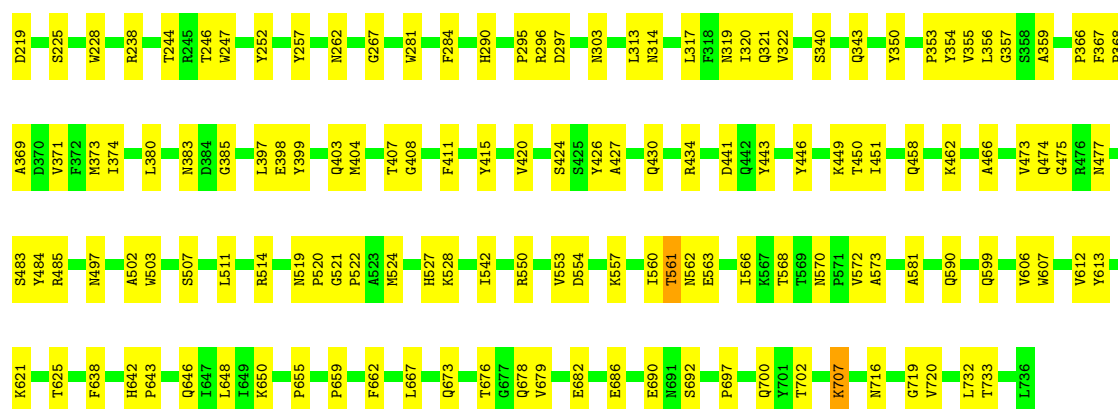


#### • Molecule 1: Capsid protein VP1

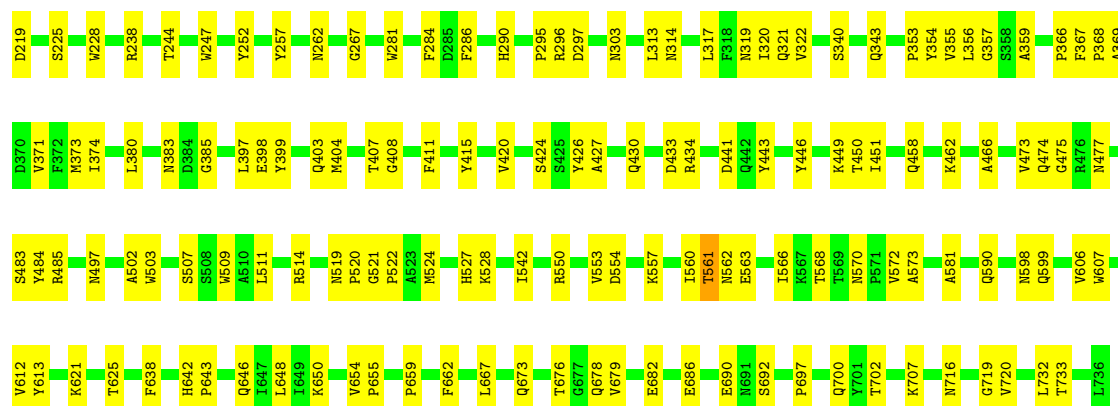




- Molecule 1: Capsid protein VP1

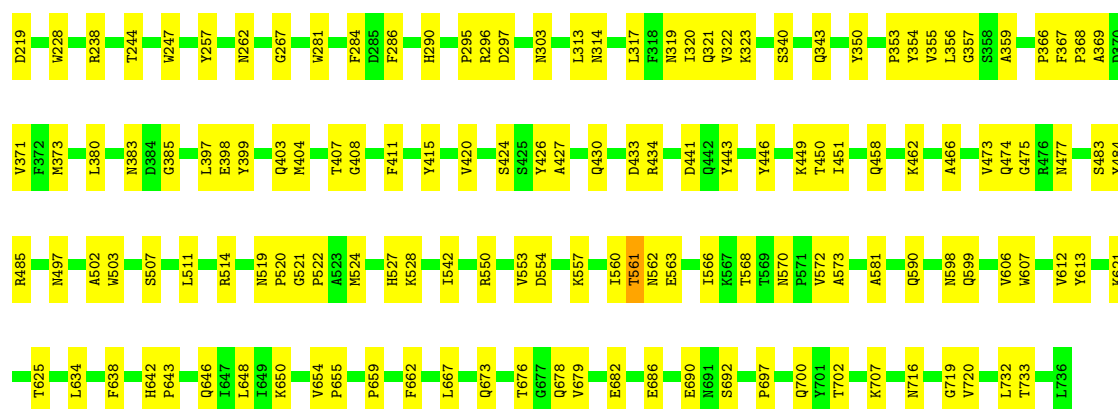


- Molecule 1: Capsid protein VP1

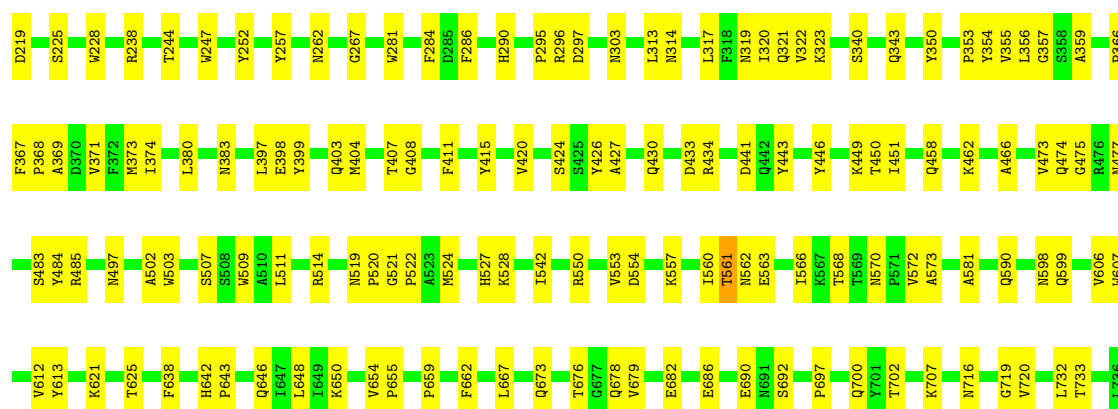


- Molecule 1: Capsid protein VP1

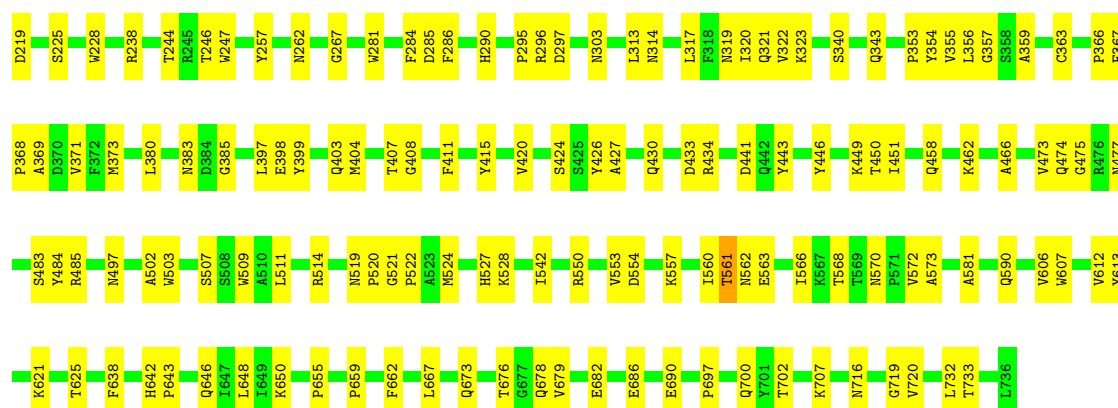




• Molecule 1: Capsid protein VP1

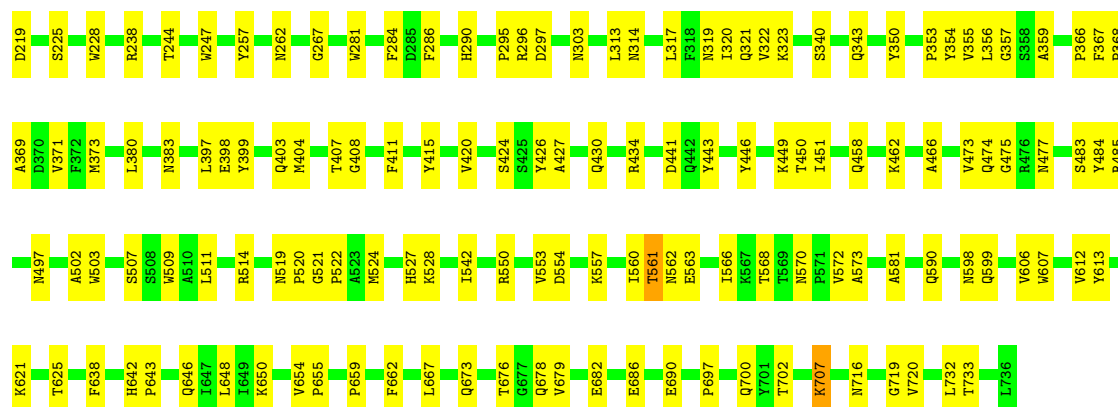


• Molecule 1: Capsid protein VP1

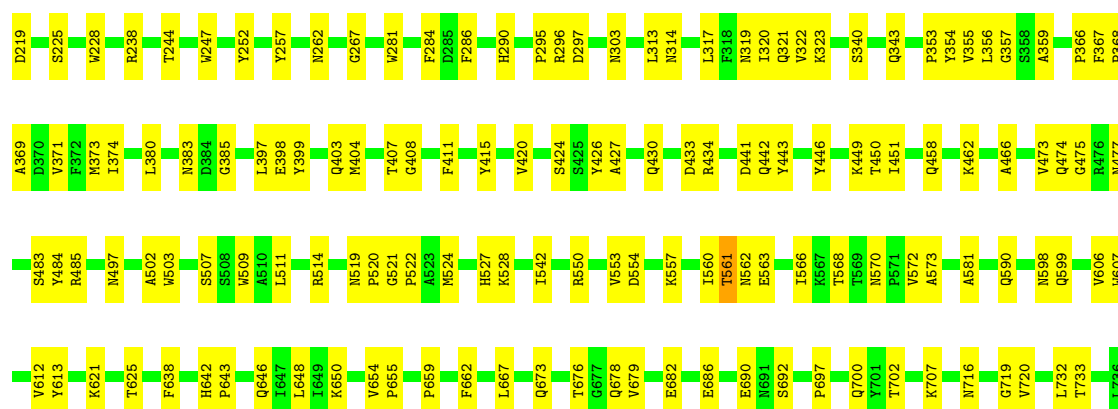


• Molecule 1: Capsid protein VP1

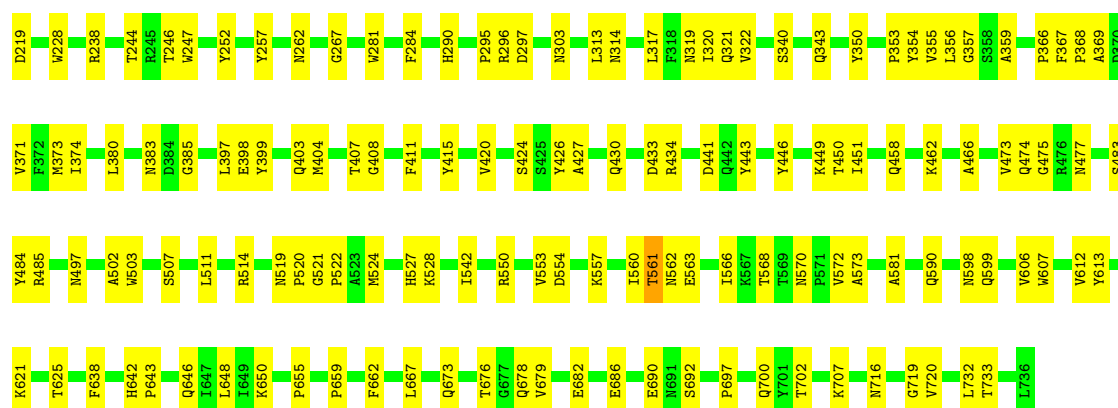




• Molecule 1: Capsid protein VP1



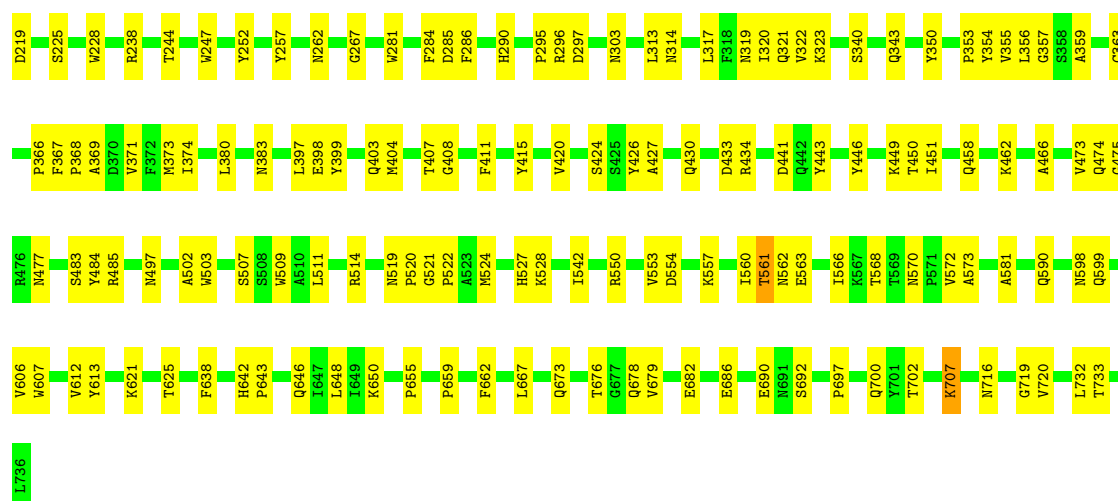
• Molecule 1: Capsid protein VP1



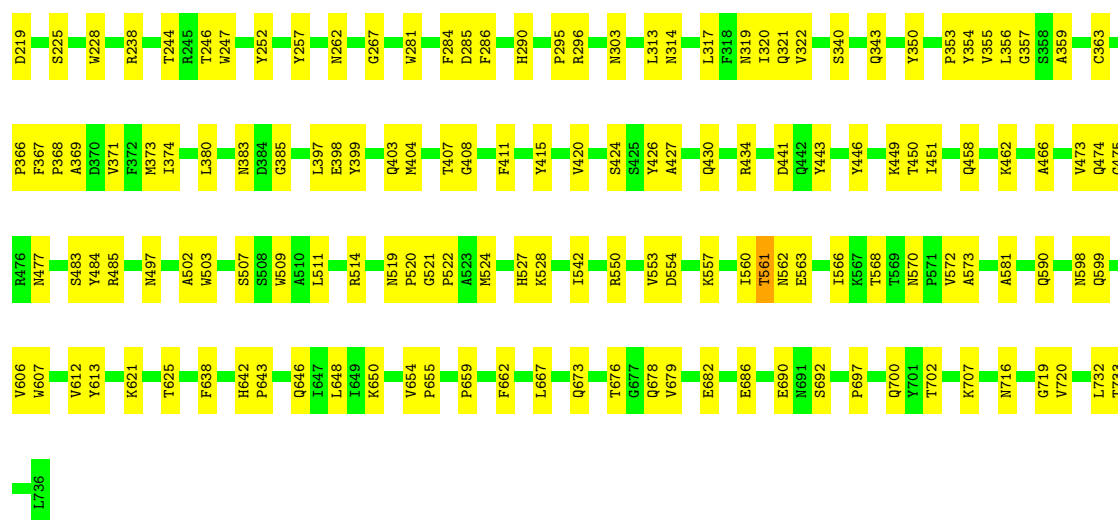
• Molecule 1: Capsid protein VP1



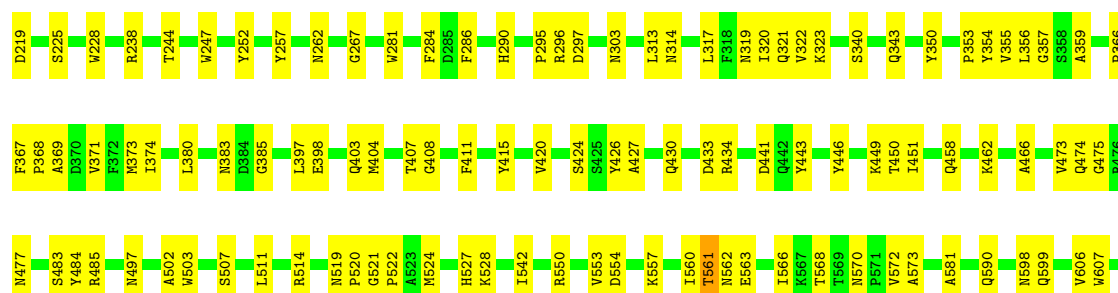


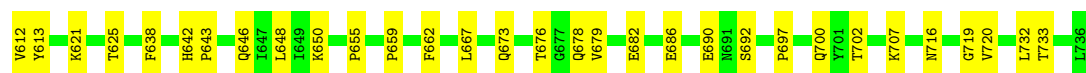


• Molecule 1: Capsid protein VP1



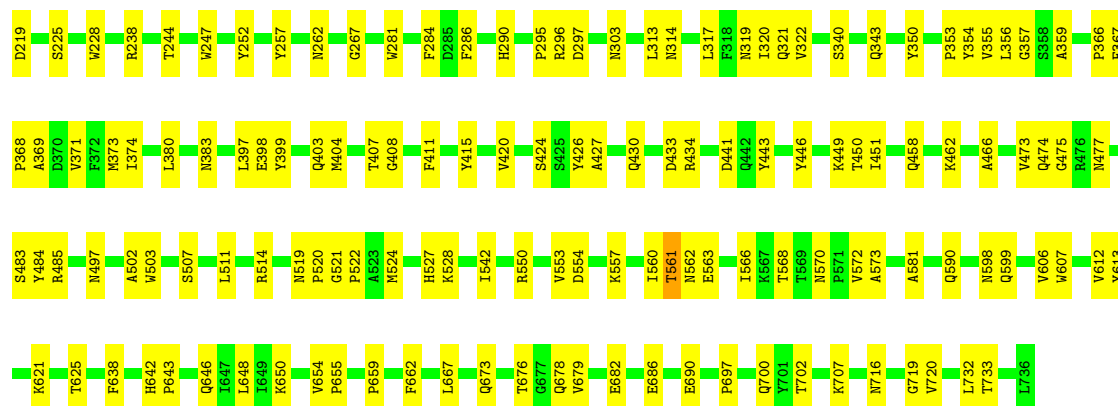
• Molecule 1: Capsid protein VP1





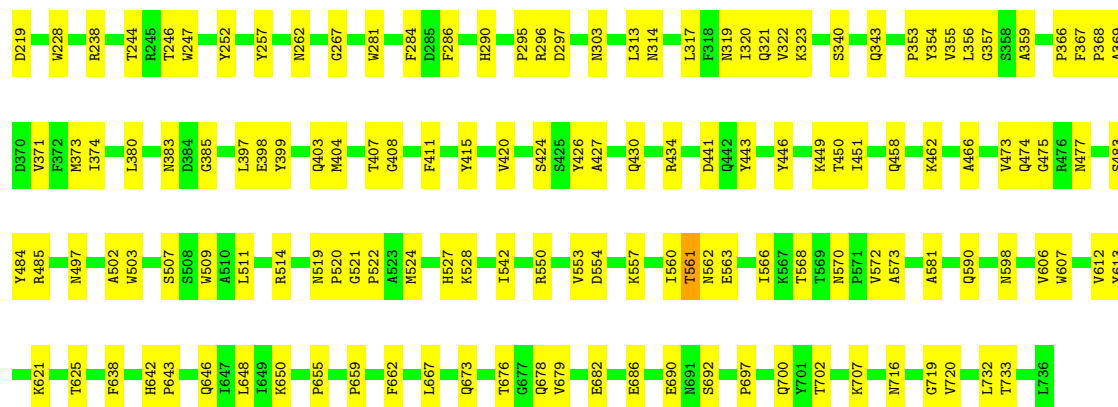
• Molecule 1: Capsid protein VP1

Chain O: 73% 27%



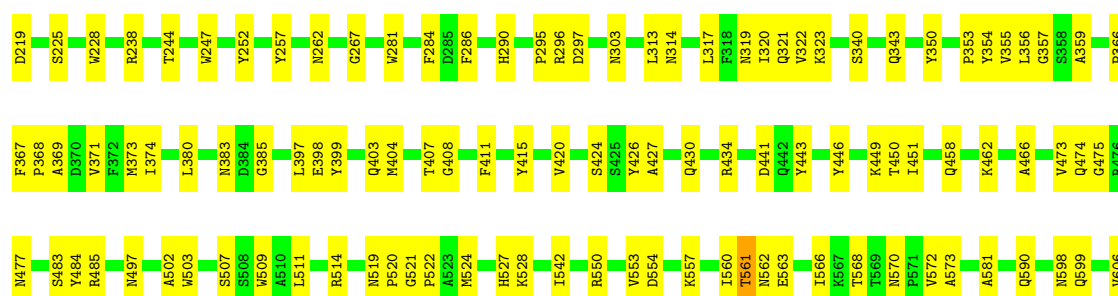
• Molecule 1: Capsid protein VP1

Chain P: 73% 27%



• Molecule 1: Capsid protein VP1

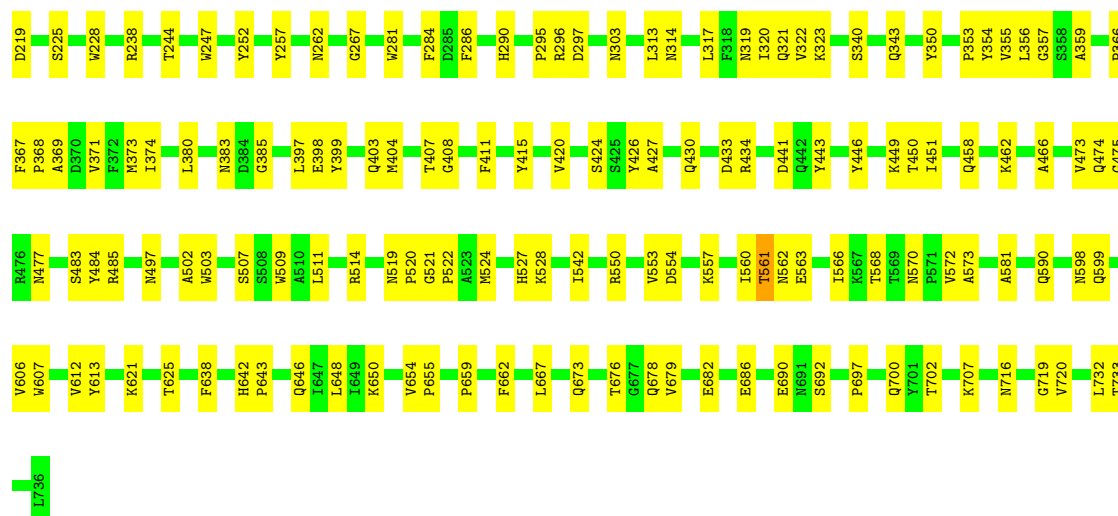
Chain Q: 73% 27%





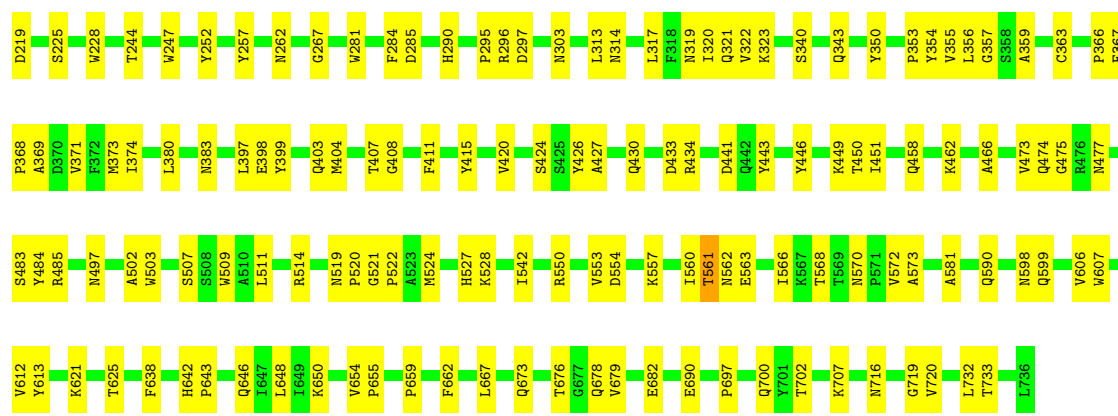
- Molecule 1: Capsid protein VP1

Chain R:  72%  27%



- Molecule 1: Capsid protein VP1

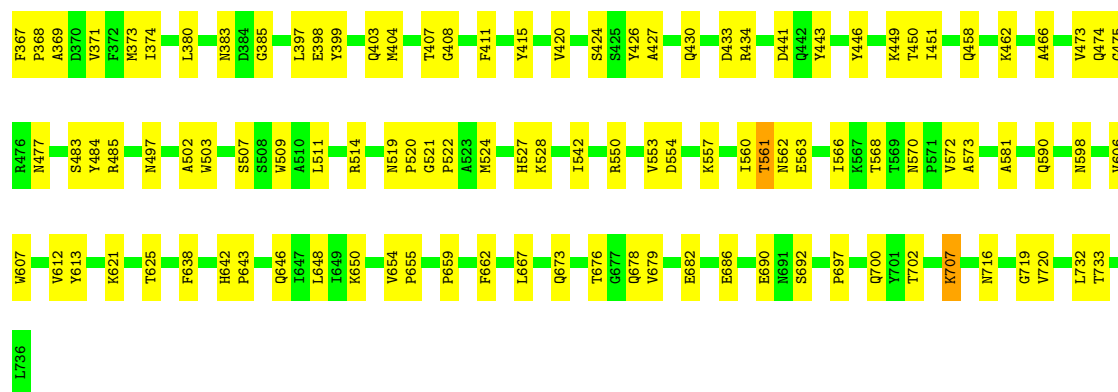
Chain S:  73%  27%



- Molecule 1: Capsid protein VP1

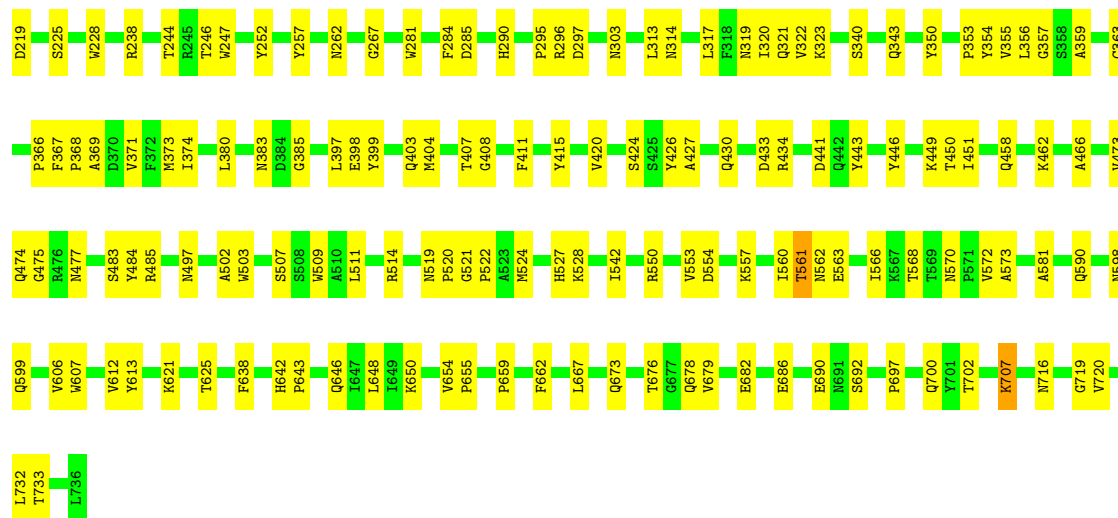
Chain T:  73%  27%





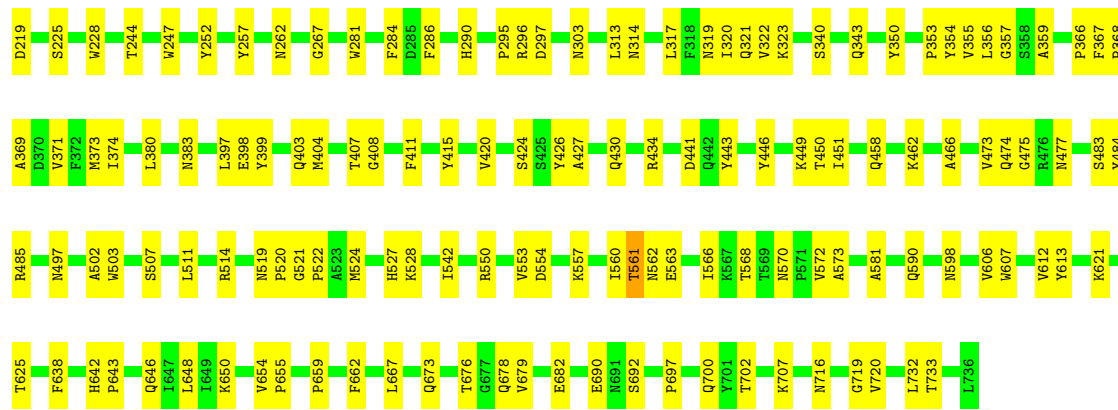
• Molecule 1: Capsid protein VP1

Chain U: 72% 28%



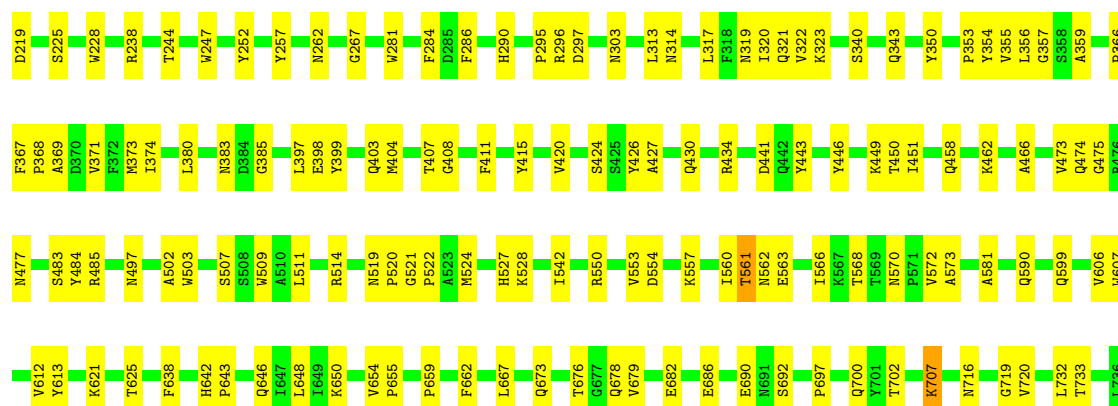
• Molecule 1: Capsid protein VP1

Chain V: 74% 26%



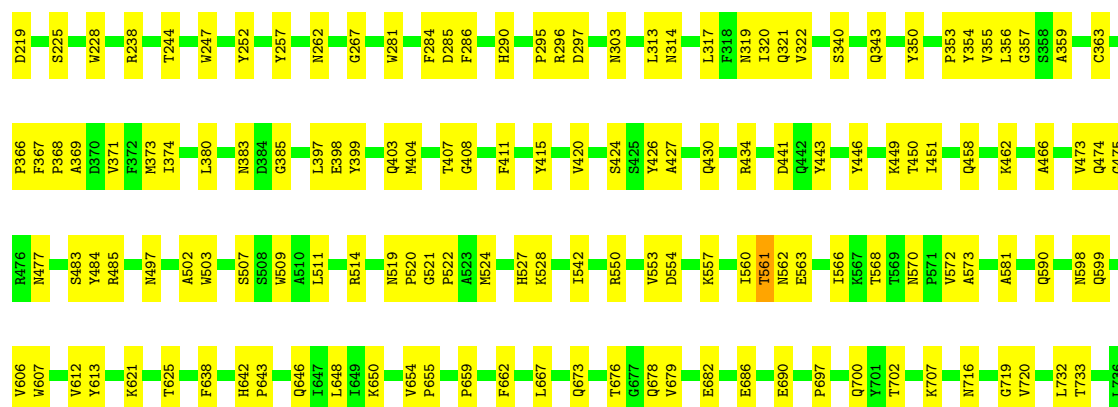
• Molecule 1: Capsid protein VP1

Chain W:  73% 27%



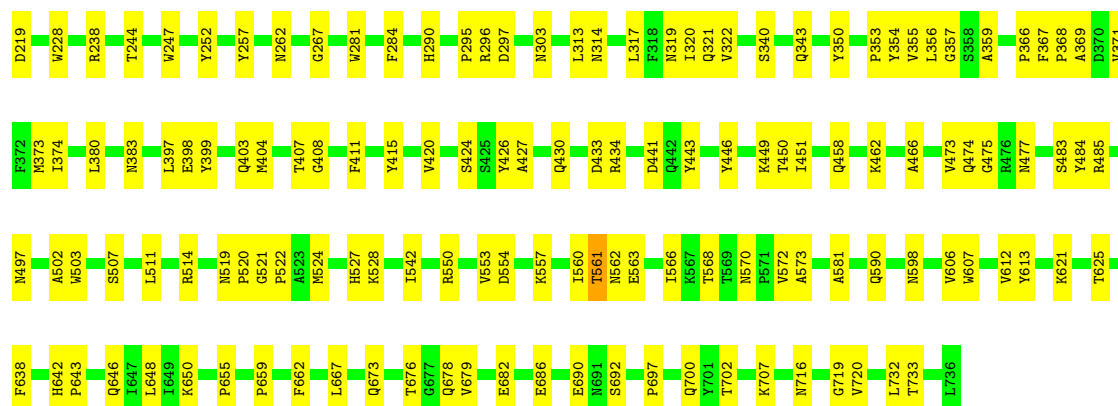
• Molecule 1: Capsid protein VP1

Chain X:  73% 27%



• Molecule 1: Capsid protein VP1

Chain Y:  74% 26%



• Molecule 1: Capsid protein VP1

Response	Percentage
Doing a good job	73%
Doing a bad job	27%



Response	Percentage
Yes, it is a crisis	73%
No, it is not a crisis	27%

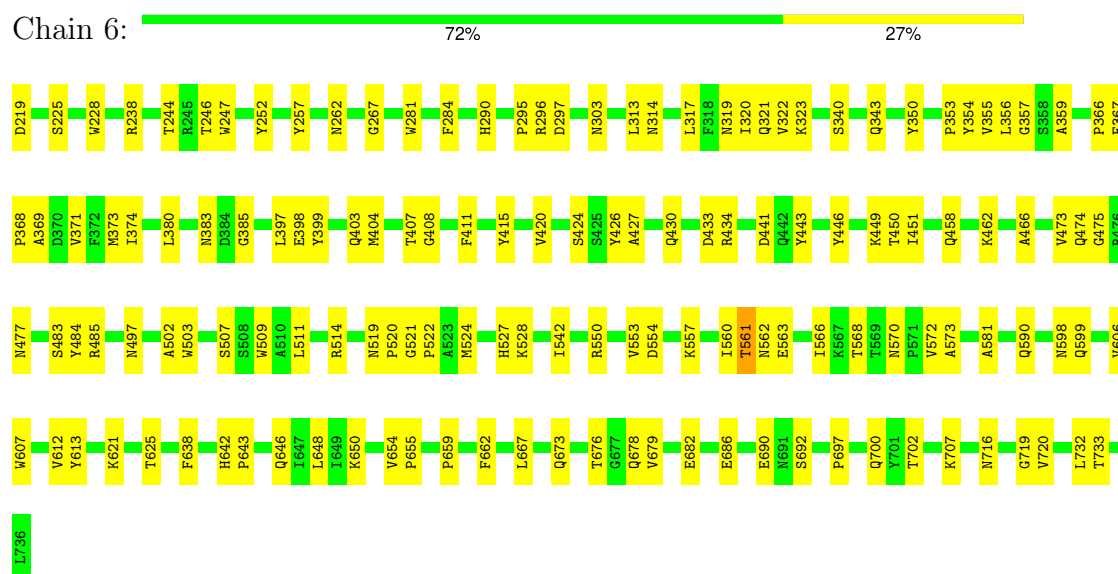


Opinion	Percentage
Doing a good job	72%
Doing a bad job	27%



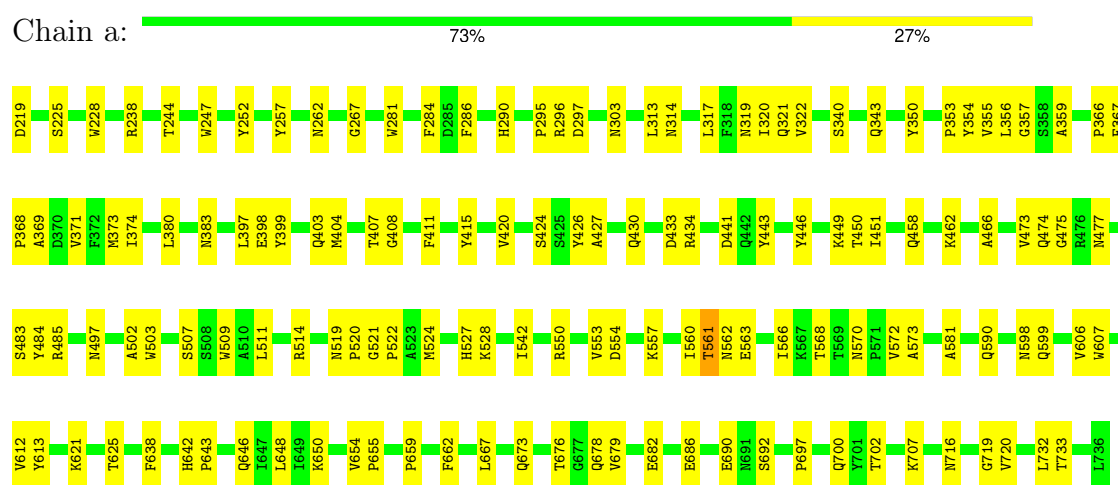


Chain 6:



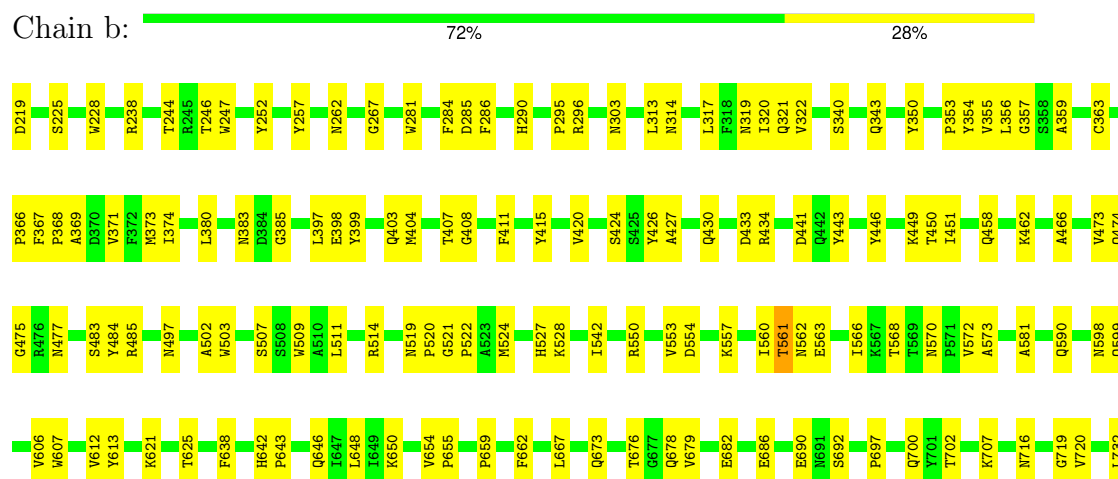
- Molecule 1: Capsid protein VP1

Chain a:



- Molecule 1: Capsid protein VP1

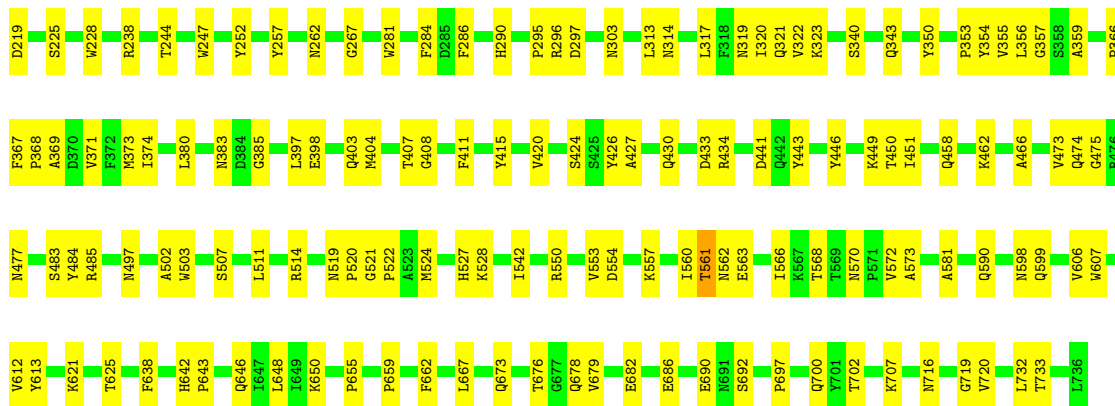
Chain b:



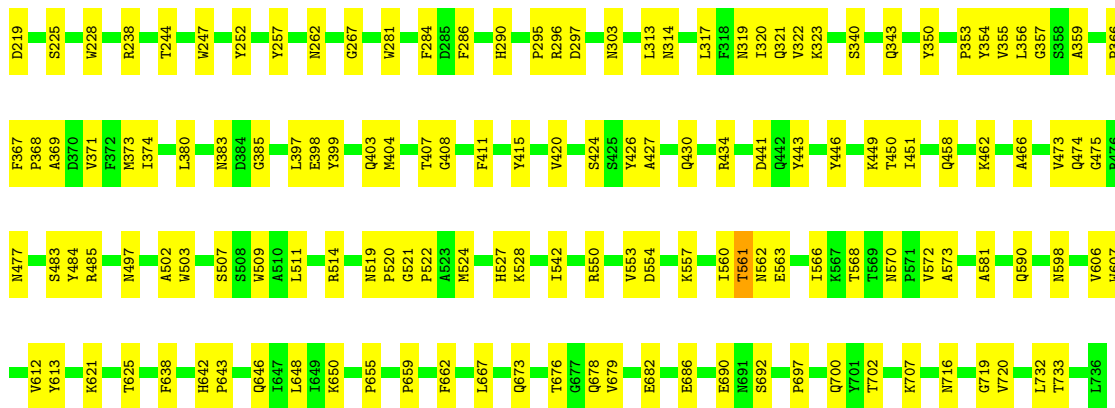




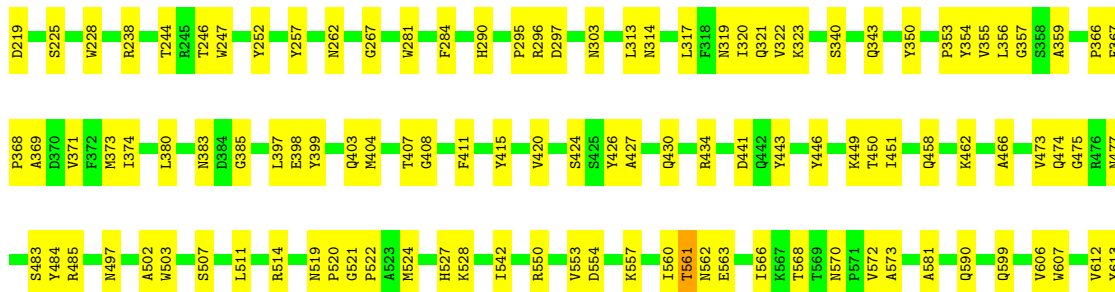
## • Molecule 1: Capsid protein VP1

Chain c:  73% 27%

## • Molecule 1: Capsid protein VP1

Chain d:  73% 27%

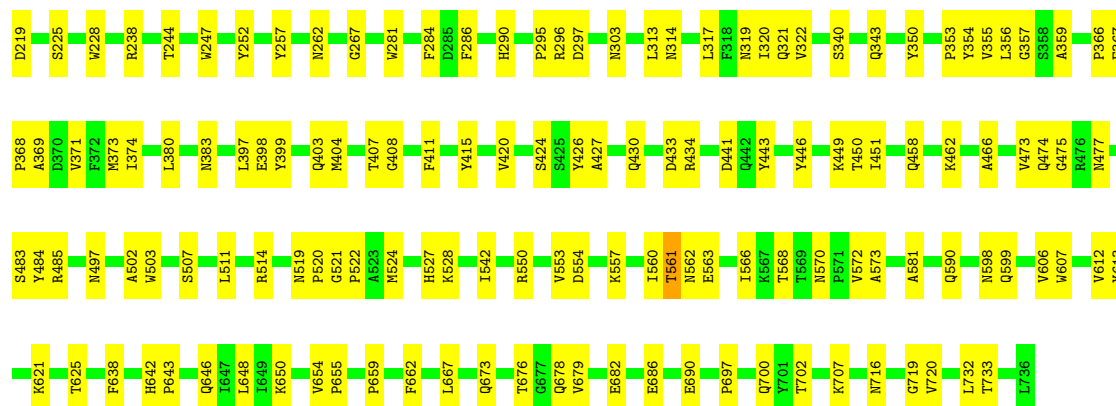
## • Molecule 1: Capsid protein VP1

Chain e:  73% 26%



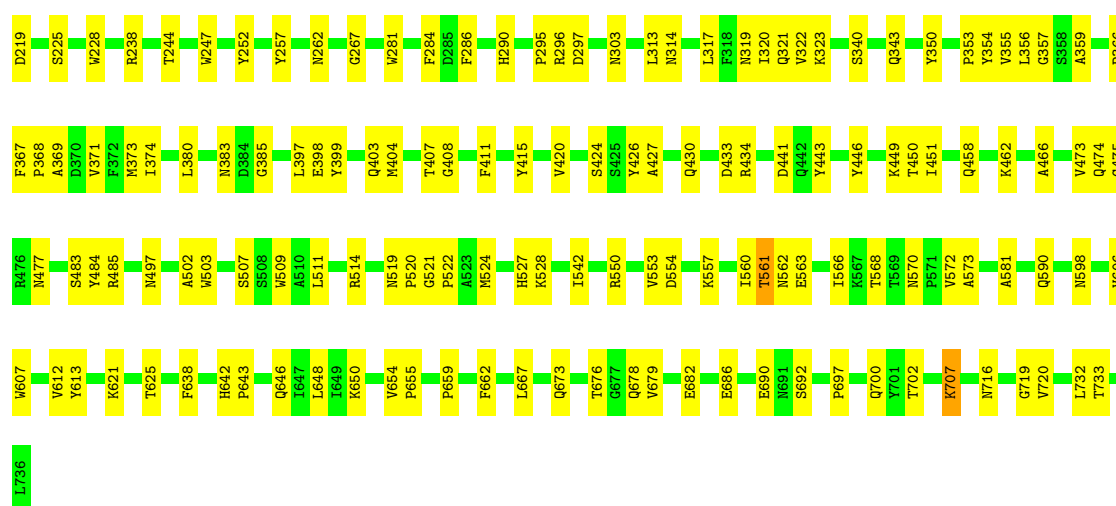
• Molecule 1: Capsid protein VP1

Chain f: 73% 27%



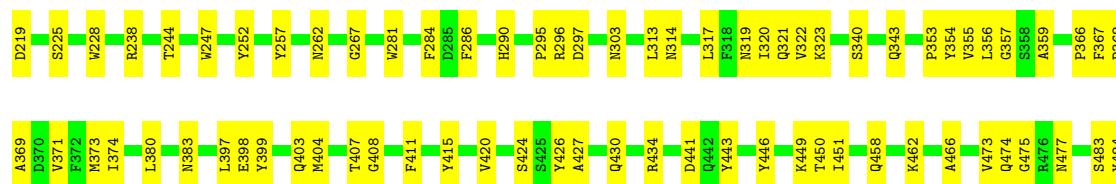
• Molecule 1: Capsid protein VP1

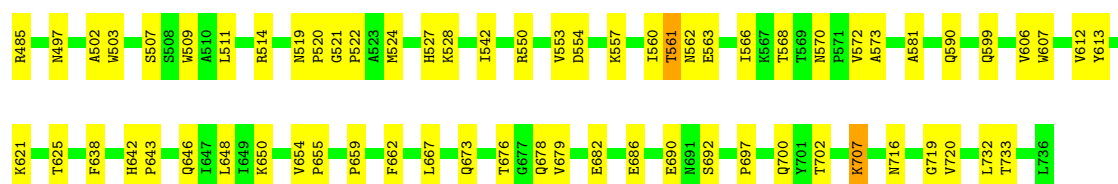
Chain g: 73% 27%



• Molecule 1: Capsid protein VP1

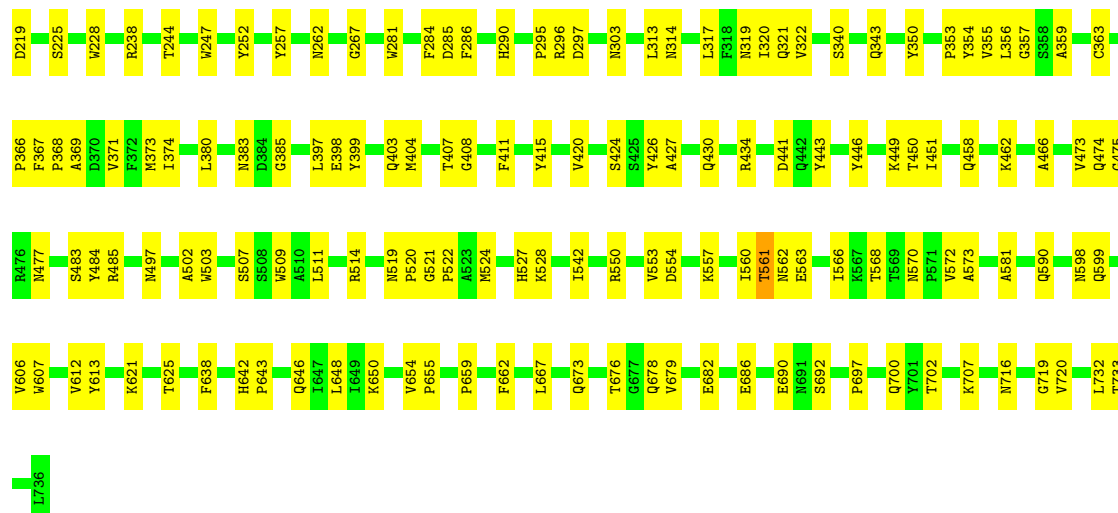
Chain h: 73% 26%





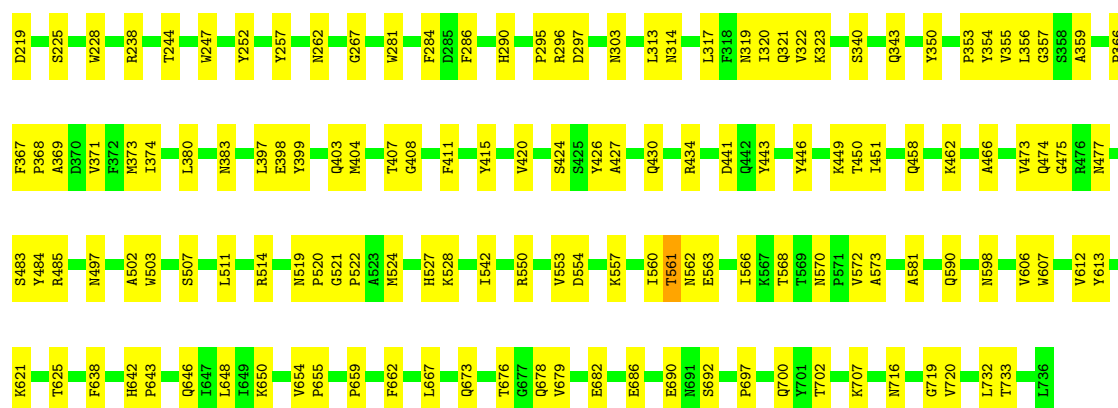
• Molecule 1: Capsid protein VP1

Chain i: 72% 27%



• Molecule 1: Capsid protein VP1

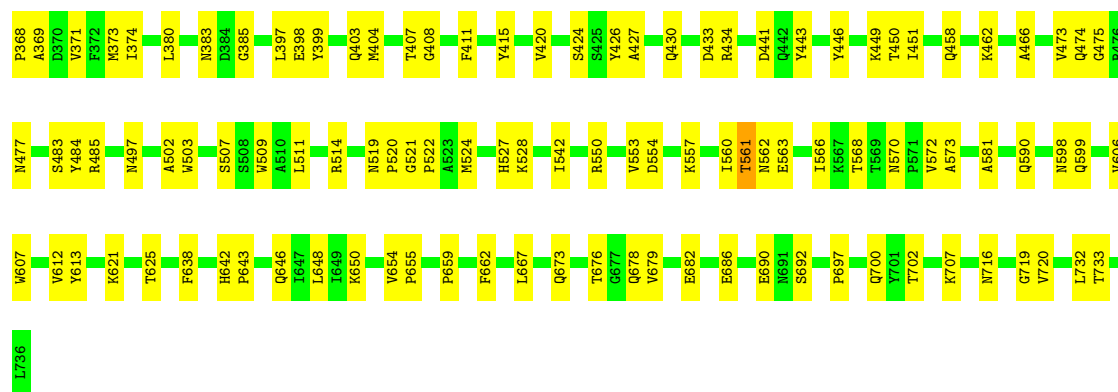
Chain j: 73% 27%



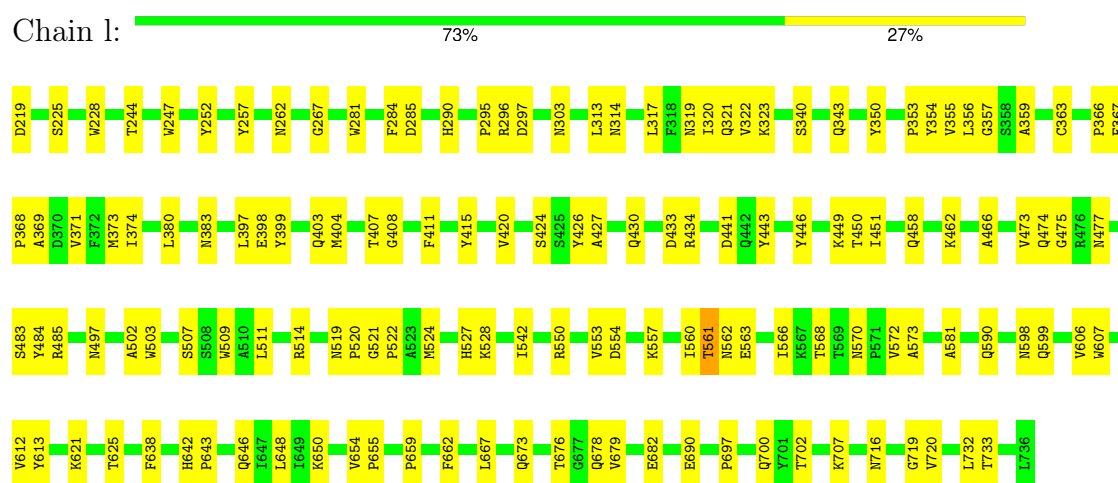
• Molecule 1: Capsid protein VP1

Chain k: 73% 27%

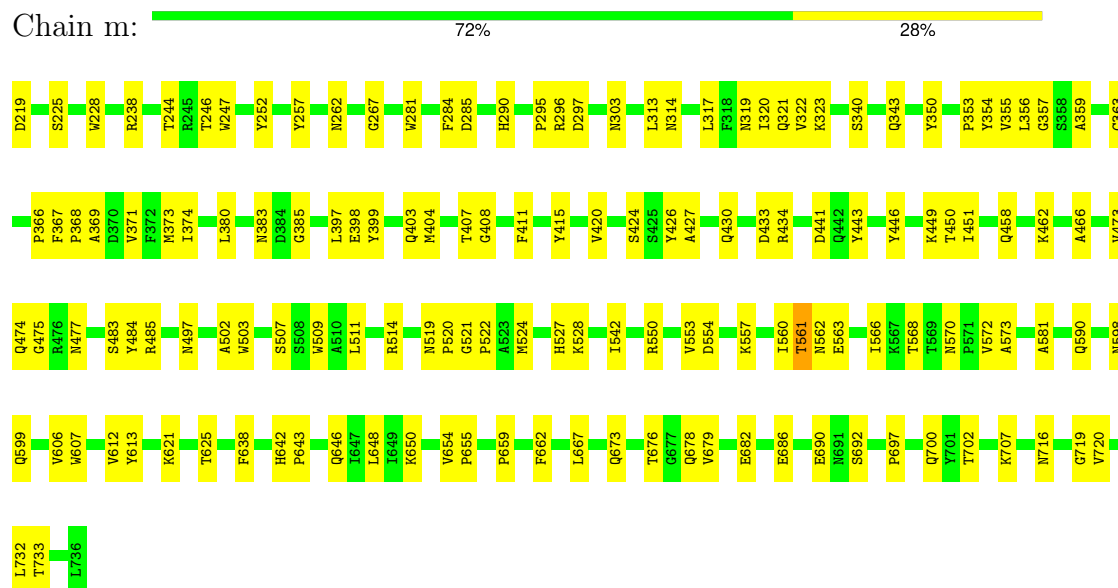




• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

Response	Percentage
Yes, it is a crisis	73%
No, it is not a crisis	27%



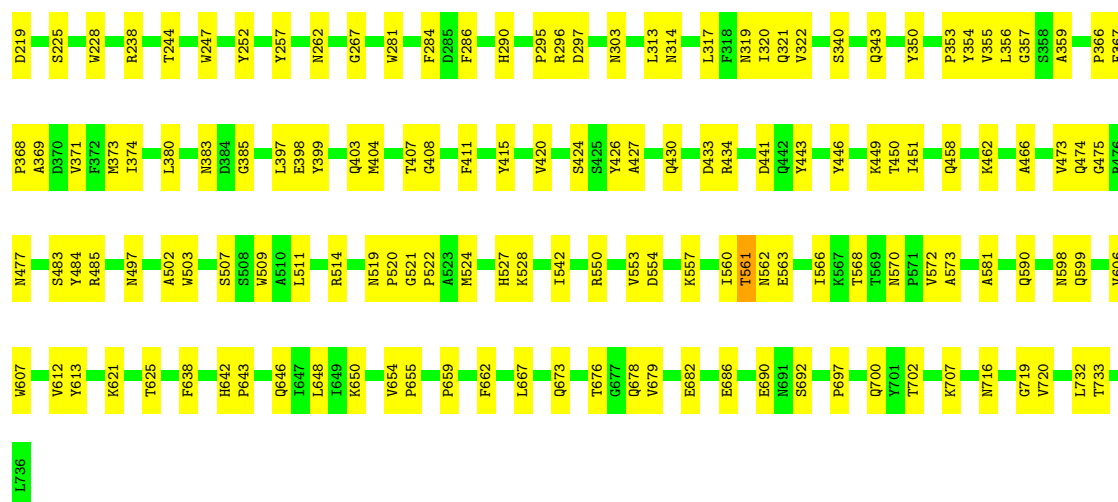
Category	Percentage
Very good	73%
Not very good	27%



Response	Percentage
Doing a good job	73%
Doing a bad job	27%

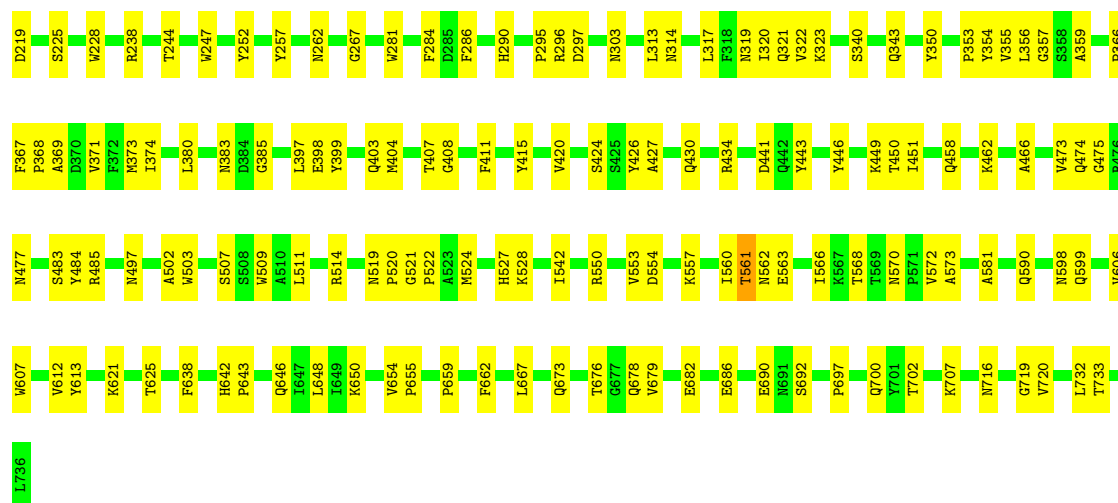


Chain q:  73% 27%



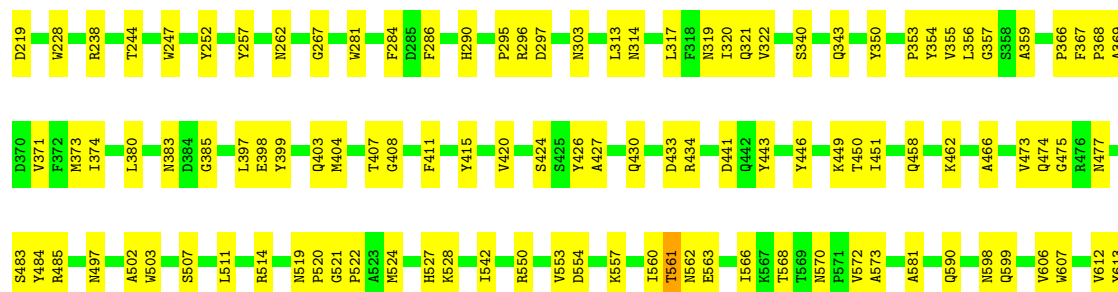
• Molecule 1: Capsid protein VP1

Chain r:  73% 27%



• Molecule 1: Capsid protein VP1

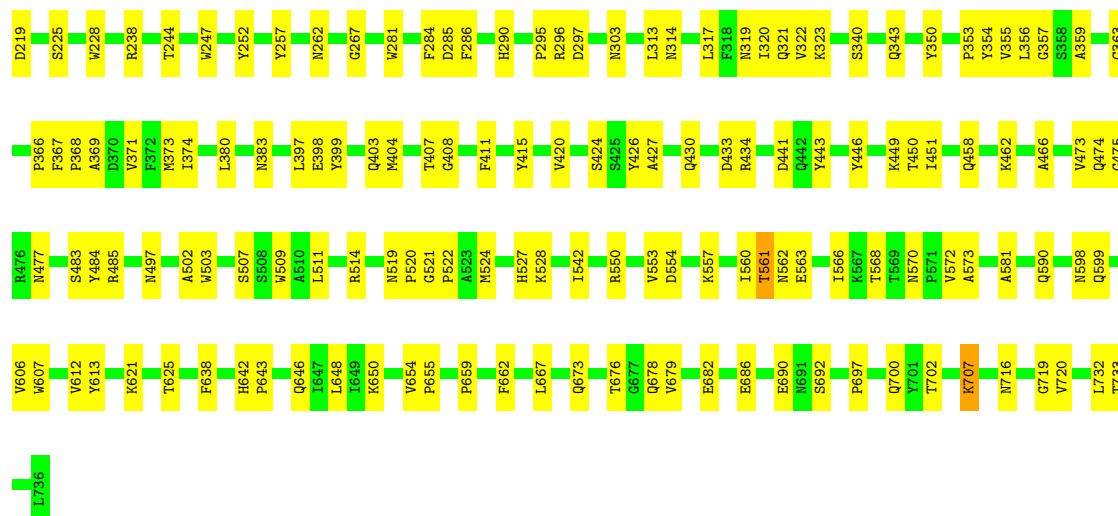
Chain s:  73% 27%





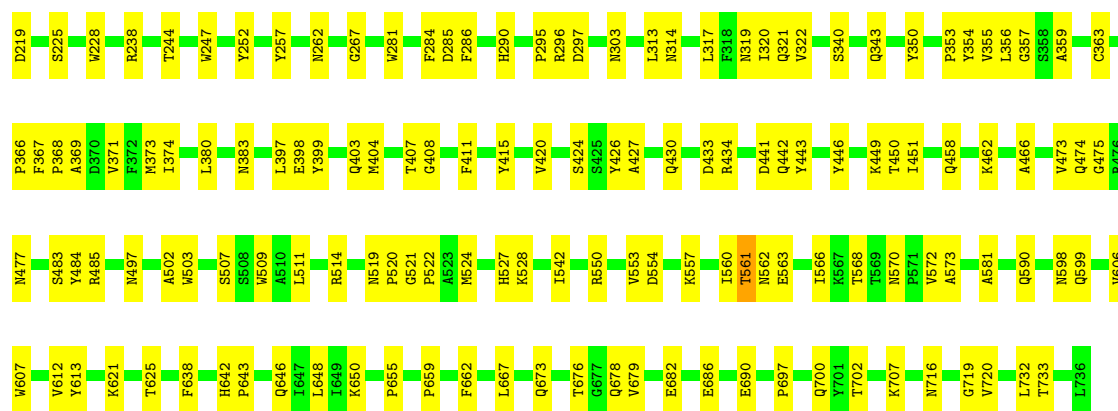
• Molecule 1: Capsid protein VP1

Chain t: 72% 27%



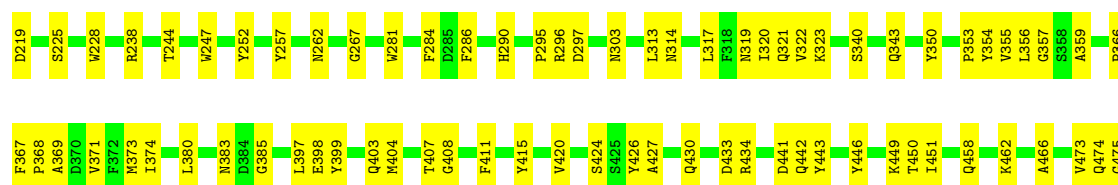
• Molecule 1: Capsid protein VP1

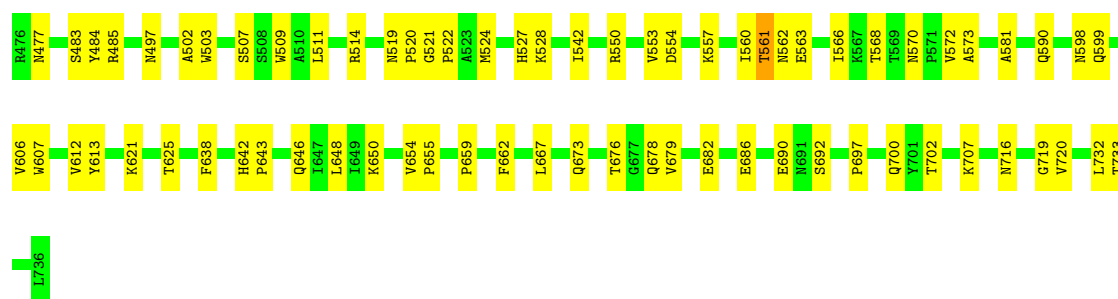
Chain u: 73% 27%



• Molecule 1: Capsid protein VP1

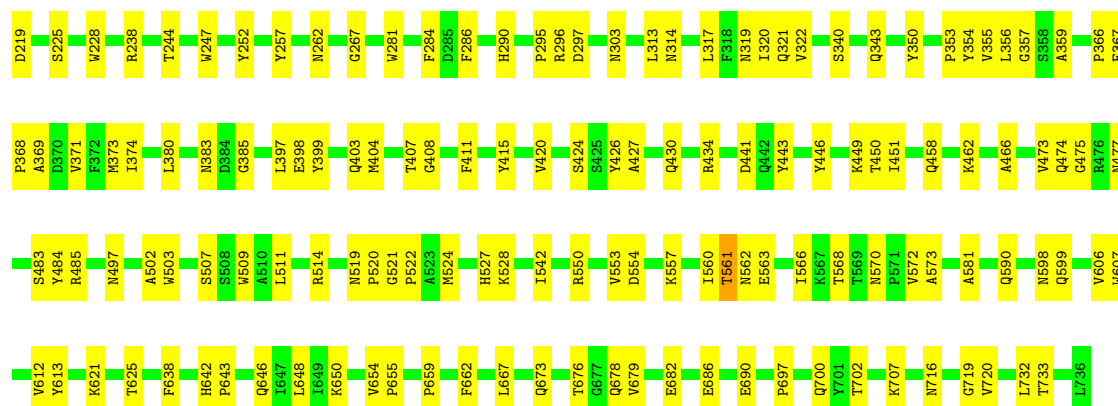
Chain v: 72% 28%





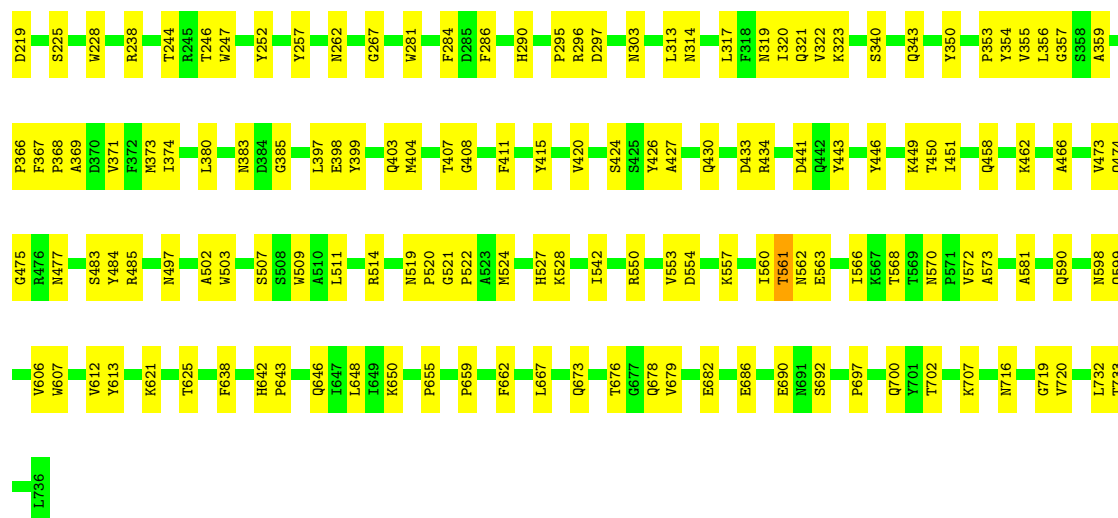
• Molecule 1: Capsid protein VP1

Chain w:  73%  27%



• Molecule 1: Capsid protein VP1

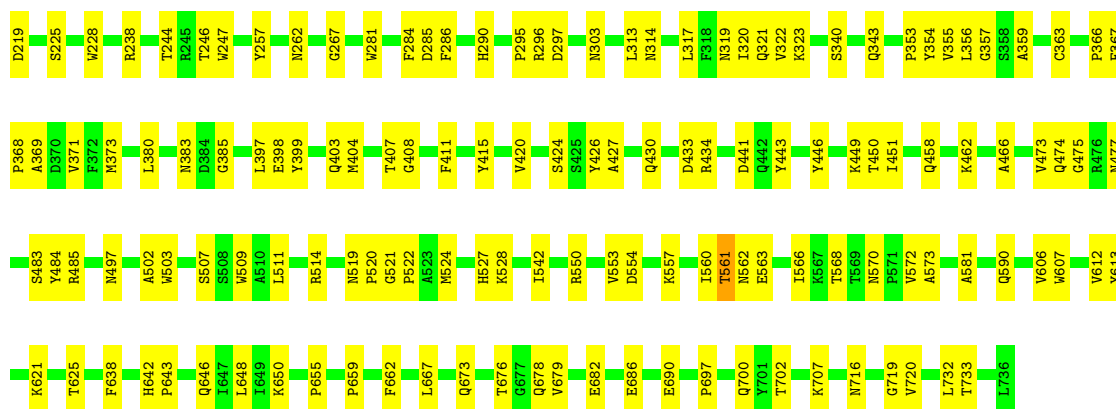
Chain x:  72%  27%



• Molecule 1: Capsid protein VP1

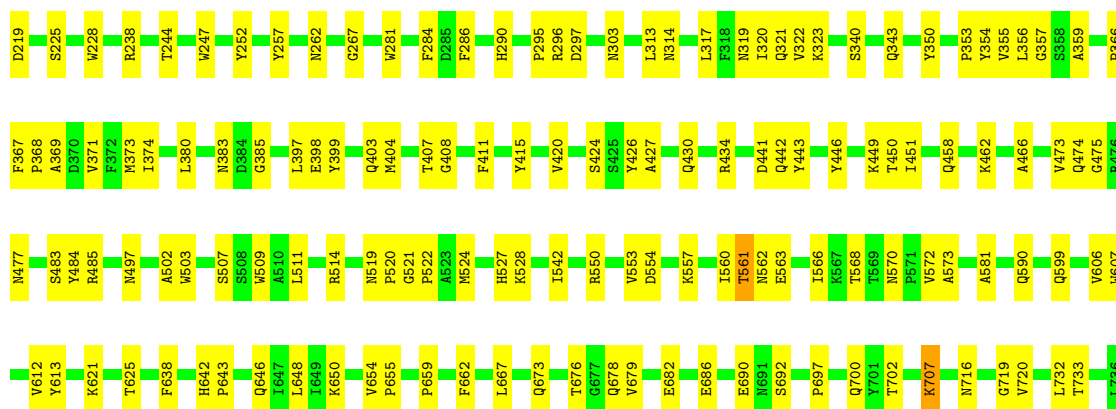
Chain y:  73%  27%





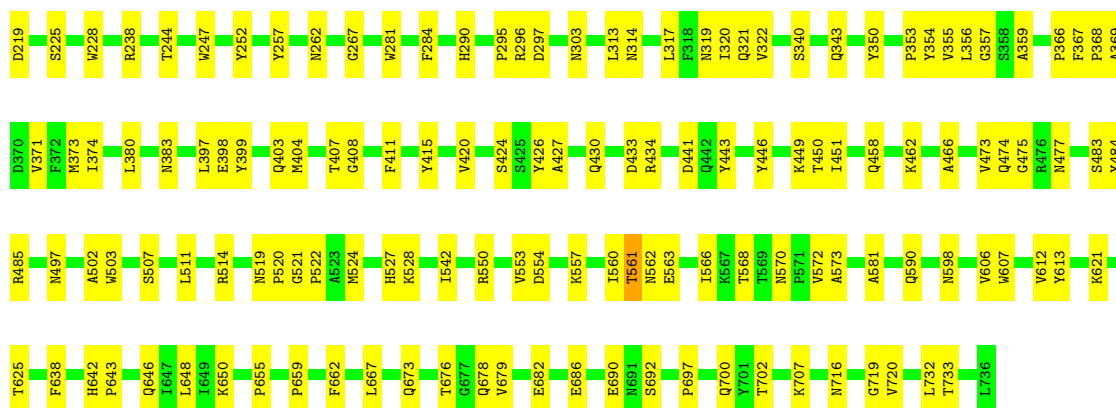
• Molecule 1: Capsid protein VP1

Chain z: 73% 27%



• Molecule 1: Capsid protein VP1

Chain 7: 74% 26%



• Molecule 1: Capsid protein VP1

Chain 8: 73% 27%

D219	P368	S483	Y613
S225	A369	Y484	K621
W228	D370	R485	T625
R238	V371	N497	F638
T244	M373	A502	H642
W247	I374	W503	P643
Y252	N383	S507	Q646
Y257	D384	L511	T647
N262	G385	R514	L648
G267	L397	N519	I649
W281	E398	P520	K650
F284	Y399	G521	P655
D285	Q403	P522	P659
F286	M404	A523	F662
H290	T407	M524	L667
P295	G408	H527	Q673
R296	F411	K528	T676
D297	Y415	I542	G677
N303	V420	R550	Q678
L313	S424	V553	V679
N314	S425	D554	E682
L317	Y426	K557	E686
F318	A427	I560	E690
N319	Q430	T561	V691
I320	R434	N562	S692
Q321	D441	E563	P697
V322	Q442	I566	Q700
S340	Y443	K567	Y701
Q343	Y446	T568	T702
Y350	K449	T569	K707
P353	I451	M570	N716
Y354	Q458	P571	G719
V355	K462	A573	V720
L356	A466	A581	L732
G357	V473	Q590	T733
S358	Q474	N598	L736
A359	G475	Q599	
P366	R476	V606	
F367	N477	W607	
		V612	

## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	56370	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 ( $e^-/\text{\AA}^2$ )	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	25.762	Depositor
Minimum map value	-11.952	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ( $\text{\AA}$ )	544.96, 544.96, 544.96	wwPDB
Map dimensions	520, 520, 520	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.0480001, 1.0480001, 1.0480001	Depositor

## 5 Model quality

### 5.1 Standard geometry

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	0.47	0/4256	0.63	3/5800 (0.1%)
1	2	0.46	0/4256	0.63	3/5800 (0.1%)
1	3	0.46	0/4256	0.63	3/5800 (0.1%)
1	4	0.47	0/4256	0.63	3/5800 (0.1%)
1	5	0.47	0/4256	0.63	3/5800 (0.1%)
1	6	0.47	0/4256	0.63	3/5800 (0.1%)
1	7	0.47	0/4256	0.63	3/5800 (0.1%)
1	8	0.47	0/4256	0.63	3/5800 (0.1%)
1	A	0.46	0/4256	0.63	3/5800 (0.1%)
1	B	0.47	0/4256	0.63	3/5800 (0.1%)
1	C	0.47	0/4256	0.63	3/5800 (0.1%)
1	D	0.47	0/4256	0.63	3/5800 (0.1%)
1	E	0.47	0/4256	0.63	3/5800 (0.1%)
1	F	0.47	0/4256	0.63	3/5800 (0.1%)
1	G	0.47	0/4256	0.63	3/5800 (0.1%)
1	H	0.47	0/4256	0.63	3/5800 (0.1%)
1	I	0.47	0/4256	0.63	3/5800 (0.1%)
1	J	0.47	0/4256	0.63	3/5800 (0.1%)
1	K	0.47	0/4256	0.63	3/5800 (0.1%)
1	L	0.47	0/4256	0.63	3/5800 (0.1%)
1	M	0.47	0/4256	0.63	3/5800 (0.1%)
1	N	0.47	0/4256	0.63	3/5800 (0.1%)
1	O	0.47	0/4256	0.63	3/5800 (0.1%)
1	P	0.47	0/4256	0.63	3/5800 (0.1%)
1	Q	0.47	0/4256	0.63	3/5800 (0.1%)
1	R	0.47	0/4256	0.63	3/5800 (0.1%)
1	S	0.47	0/4256	0.63	3/5800 (0.1%)
1	T	0.47	0/4256	0.63	3/5800 (0.1%)
1	U	0.47	0/4256	0.63	3/5800 (0.1%)
1	V	0.47	0/4256	0.63	3/5800 (0.1%)
1	W	0.47	0/4256	0.63	3/5800 (0.1%)
1	X	0.47	0/4256	0.63	3/5800 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	Y	0.47	0/4256	0.63	3/5800 (0.1%)
1	Z	0.47	0/4256	0.63	3/5800 (0.1%)
1	a	0.47	0/4256	0.63	3/5800 (0.1%)
1	b	0.47	0/4256	0.63	3/5800 (0.1%)
1	c	0.47	0/4256	0.63	3/5800 (0.1%)
1	d	0.47	0/4256	0.63	3/5800 (0.1%)
1	e	0.47	0/4256	0.63	3/5800 (0.1%)
1	f	0.47	0/4256	0.63	3/5800 (0.1%)
1	g	0.47	0/4256	0.63	3/5800 (0.1%)
1	h	0.47	0/4256	0.63	3/5800 (0.1%)
1	i	0.47	0/4256	0.63	3/5800 (0.1%)
1	j	0.47	0/4256	0.63	3/5800 (0.1%)
1	k	0.47	0/4256	0.63	3/5800 (0.1%)
1	l	0.47	0/4256	0.63	3/5800 (0.1%)
1	m	0.47	0/4256	0.63	3/5800 (0.1%)
1	n	0.47	0/4256	0.63	3/5800 (0.1%)
1	o	0.47	0/4256	0.63	3/5800 (0.1%)
1	p	0.47	0/4256	0.63	3/5800 (0.1%)
1	q	0.47	0/4256	0.63	3/5800 (0.1%)
1	r	0.47	0/4256	0.63	3/5800 (0.1%)
1	s	0.46	0/4256	0.63	3/5800 (0.1%)
1	t	0.47	0/4256	0.63	3/5800 (0.1%)
1	u	0.47	0/4256	0.63	3/5800 (0.1%)
1	v	0.47	0/4256	0.63	3/5800 (0.1%)
1	w	0.47	0/4256	0.63	3/5800 (0.1%)
1	x	0.47	0/4256	0.63	3/5800 (0.1%)
1	y	0.47	0/4256	0.63	3/5800 (0.1%)
1	z	0.47	0/4256	0.63	3/5800 (0.1%)
All	All	0.47	0/255360	0.63	180/348000 (0.1%)

There are no bond length outliers.

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	522	PRO	N-CA-C	-14.65	89.30	111.57
1	K	522	PRO	N-CA-C	-14.65	89.30	111.57
1	T	522	PRO	N-CA-C	-14.65	89.30	111.57
1	V	522	PRO	N-CA-C	-14.65	89.30	111.57
1	g	522	PRO	N-CA-C	-14.65	89.30	111.57
1	j	522	PRO	N-CA-C	-14.65	89.30	111.57
1	x	522	PRO	N-CA-C	-14.65	89.30	111.57
1	a	522	PRO	N-CA-C	-14.65	89.31	111.57

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	522	PRO	N-CA-C	-14.64	89.31	111.57
1	P	522	PRO	N-CA-C	-14.64	89.31	111.57
1	1	522	PRO	N-CA-C	-14.64	89.31	111.57
1	2	522	PRO	N-CA-C	-14.64	89.31	111.57
1	3	522	PRO	N-CA-C	-14.64	89.31	111.57
1	4	522	PRO	N-CA-C	-14.64	89.31	111.57
1	5	522	PRO	N-CA-C	-14.64	89.31	111.57
1	6	522	PRO	N-CA-C	-14.64	89.31	111.57
1	h	522	PRO	N-CA-C	-14.64	89.31	111.57
1	w	522	PRO	N-CA-C	-14.64	89.31	111.57
1	y	522	PRO	N-CA-C	-14.64	89.31	111.57
1	l	522	PRO	N-CA-C	-14.64	89.31	111.57
1	B	522	PRO	N-CA-C	-14.64	89.32	111.57
1	R	522	PRO	N-CA-C	-14.64	89.32	111.57
1	k	522	PRO	N-CA-C	-14.64	89.32	111.57
1	u	522	PRO	N-CA-C	-14.64	89.32	111.57
1	v	522	PRO	N-CA-C	-14.64	89.32	111.57
1	M	522	PRO	N-CA-C	-14.64	89.32	111.57
1	X	522	PRO	N-CA-C	-14.64	89.32	111.57
1	b	522	PRO	N-CA-C	-14.64	89.32	111.57
1	i	522	PRO	N-CA-C	-14.64	89.32	111.57
1	q	522	PRO	N-CA-C	-14.64	89.32	111.57
1	Y	522	PRO	N-CA-C	-14.63	89.33	111.57
1	J	522	PRO	N-CA-C	-14.63	89.33	111.57
1	S	522	PRO	N-CA-C	-14.63	89.33	111.57
1	A	522	PRO	N-CA-C	-14.62	89.34	111.57
1	F	522	PRO	N-CA-C	-14.62	89.34	111.57
1	I	522	PRO	N-CA-C	-14.62	89.35	111.57
1	Q	522	PRO	N-CA-C	-14.62	89.35	111.57
1	o	522	PRO	N-CA-C	-14.62	89.35	111.57
1	p	522	PRO	N-CA-C	-14.62	89.34	111.57
1	N	522	PRO	N-CA-C	-14.62	89.35	111.57
1	c	522	PRO	N-CA-C	-14.62	89.35	111.57
1	d	522	PRO	N-CA-C	-14.62	89.35	111.57
1	7	522	PRO	N-CA-C	-14.62	89.35	111.57
1	s	522	PRO	N-CA-C	-14.62	89.35	111.57
1	r	522	PRO	N-CA-C	-14.61	89.36	111.57
1	E	522	PRO	N-CA-C	-14.61	89.36	111.57
1	G	522	PRO	N-CA-C	-14.61	89.36	111.57
1	O	522	PRO	N-CA-C	-14.61	89.36	111.57
1	Z	522	PRO	N-CA-C	-14.61	89.36	111.57
1	f	522	PRO	N-CA-C	-14.61	89.36	111.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	522	PRO	N-CA-C	-14.61	89.36	111.57
1	8	522	PRO	N-CA-C	-14.61	89.36	111.57
1	L	522	PRO	N-CA-C	-14.61	89.36	111.57
1	U	522	PRO	N-CA-C	-14.61	89.36	111.57
1	W	522	PRO	N-CA-C	-14.61	89.36	111.57
1	m	522	PRO	N-CA-C	-14.61	89.36	111.57
1	t	522	PRO	N-CA-C	-14.61	89.37	111.57
1	D	522	PRO	N-CA-C	-14.60	89.38	111.57
1	e	522	PRO	N-CA-C	-14.60	89.38	111.57
1	z	522	PRO	N-CA-C	-14.60	89.38	111.57
1	N	521	GLY	CA-C-N	-6.04	114.39	120.31
1	N	521	GLY	C-N-CA	-6.04	114.39	120.31
1	c	521	GLY	CA-C-N	-6.04	114.39	120.31
1	c	521	GLY	C-N-CA	-6.04	114.39	120.31
1	d	521	GLY	CA-C-N	-6.04	114.39	120.31
1	d	521	GLY	C-N-CA	-6.04	114.39	120.31
1	7	521	GLY	CA-C-N	-6.04	114.39	120.31
1	7	521	GLY	C-N-CA	-6.04	114.39	120.31
1	B	521	GLY	CA-C-N	-6.03	114.41	120.31
1	B	521	GLY	C-N-CA	-6.03	114.41	120.31
1	R	521	GLY	CA-C-N	-6.03	114.41	120.31
1	R	521	GLY	C-N-CA	-6.03	114.41	120.31
1	k	521	GLY	CA-C-N	-6.03	114.41	120.31
1	k	521	GLY	C-N-CA	-6.03	114.41	120.31
1	u	521	GLY	CA-C-N	-6.03	114.41	120.31
1	u	521	GLY	C-N-CA	-6.03	114.41	120.31
1	v	521	GLY	CA-C-N	-6.03	114.41	120.31
1	v	521	GLY	C-N-CA	-6.03	114.41	120.31
1	Y	521	GLY	CA-C-N	-6.02	114.41	120.31
1	Y	521	GLY	C-N-CA	-6.02	114.41	120.31
1	D	521	GLY	CA-C-N	-6.01	114.42	120.31
1	D	521	GLY	C-N-CA	-6.01	114.42	120.31
1	e	521	GLY	CA-C-N	-6.01	114.42	120.31
1	e	521	GLY	C-N-CA	-6.01	114.42	120.31
1	z	521	GLY	CA-C-N	-6.01	114.42	120.31
1	z	521	GLY	C-N-CA	-6.01	114.42	120.31
1	O	521	GLY	CA-C-N	-6.00	114.43	120.31
1	O	521	GLY	C-N-CA	-6.00	114.43	120.31
1	Z	521	GLY	CA-C-N	-6.00	114.43	120.31
1	Z	521	GLY	C-N-CA	-6.00	114.43	120.31
1	2	521	GLY	CA-C-N	-6.00	114.43	120.31
1	2	521	GLY	C-N-CA	-6.00	114.43	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	521	GLY	CA-C-N	-6.00	114.43	120.31
1	3	521	GLY	C-N-CA	-6.00	114.43	120.31
1	5	521	GLY	CA-C-N	-6.00	114.43	120.31
1	5	521	GLY	C-N-CA	-6.00	114.43	120.31
1	6	521	GLY	CA-C-N	-6.00	114.43	120.31
1	6	521	GLY	C-N-CA	-6.00	114.43	120.31
1	f	521	GLY	CA-C-N	-6.00	114.43	120.31
1	f	521	GLY	C-N-CA	-6.00	114.43	120.31
1	8	521	GLY	CA-C-N	-6.00	114.43	120.31
1	8	521	GLY	C-N-CA	-6.00	114.43	120.31
1	E	521	GLY	CA-C-N	-6.00	114.44	120.31
1	E	521	GLY	C-N-CA	-6.00	114.44	120.31
1	G	521	GLY	CA-C-N	-6.00	114.44	120.31
1	G	521	GLY	C-N-CA	-6.00	114.44	120.31
1	n	521	GLY	CA-C-N	-6.00	114.44	120.31
1	n	521	GLY	C-N-CA	-6.00	114.44	120.31
1	C	521	GLY	CA-C-N	-5.99	114.44	120.31
1	C	521	GLY	C-N-CA	-5.99	114.44	120.31
1	K	521	GLY	CA-C-N	-5.99	114.44	120.31
1	K	521	GLY	C-N-CA	-5.99	114.44	120.31
1	T	521	GLY	CA-C-N	-5.99	114.44	120.31
1	T	521	GLY	C-N-CA	-5.99	114.44	120.31
1	V	521	GLY	CA-C-N	-5.99	114.44	120.31
1	V	521	GLY	C-N-CA	-5.99	114.44	120.31
1	g	521	GLY	CA-C-N	-5.99	114.44	120.31
1	g	521	GLY	C-N-CA	-5.99	114.44	120.31
1	j	521	GLY	CA-C-N	-5.99	114.44	120.31
1	j	521	GLY	C-N-CA	-5.99	114.44	120.31
1	A	521	GLY	CA-C-N	-5.99	114.44	120.31
1	A	521	GLY	C-N-CA	-5.99	114.44	120.31
1	F	521	GLY	CA-C-N	-5.99	114.44	120.31
1	F	521	GLY	C-N-CA	-5.99	114.44	120.31
1	p	521	GLY	CA-C-N	-5.99	114.44	120.31
1	p	521	GLY	C-N-CA	-5.99	114.44	120.31
1	x	521	GLY	CA-C-N	-5.99	114.44	120.31
1	x	521	GLY	C-N-CA	-5.99	114.44	120.31
1	r	521	GLY	CA-C-N	-5.99	114.44	120.31
1	r	521	GLY	C-N-CA	-5.99	114.44	120.31
1	I	521	GLY	CA-C-N	-5.98	114.45	120.31
1	I	521	GLY	C-N-CA	-5.98	114.45	120.31
1	Q	521	GLY	CA-C-N	-5.98	114.45	120.31
1	Q	521	GLY	C-N-CA	-5.98	114.45	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	521	GLY	CA-C-N	-5.98	114.45	120.31
1	o	521	GLY	C-N-CA	-5.98	114.45	120.31
1	s	521	GLY	CA-C-N	-5.98	114.45	120.31
1	s	521	GLY	C-N-CA	-5.98	114.45	120.31
1	J	521	GLY	CA-C-N	-5.97	114.46	120.31
1	J	521	GLY	C-N-CA	-5.97	114.46	120.31
1	L	521	GLY	CA-C-N	-5.97	114.46	120.31
1	L	521	GLY	C-N-CA	-5.97	114.46	120.31
1	S	521	GLY	CA-C-N	-5.97	114.46	120.31
1	S	521	GLY	C-N-CA	-5.97	114.46	120.31
1	U	521	GLY	CA-C-N	-5.97	114.46	120.31
1	U	521	GLY	C-N-CA	-5.97	114.46	120.31
1	m	521	GLY	CA-C-N	-5.97	114.46	120.31
1	m	521	GLY	C-N-CA	-5.97	114.46	120.31
1	t	521	GLY	CA-C-N	-5.97	114.46	120.31
1	t	521	GLY	C-N-CA	-5.97	114.46	120.31
1	M	521	GLY	CA-C-N	-5.97	114.46	120.31
1	M	521	GLY	C-N-CA	-5.97	114.46	120.31
1	X	521	GLY	CA-C-N	-5.97	114.46	120.31
1	X	521	GLY	C-N-CA	-5.97	114.46	120.31
1	b	521	GLY	CA-C-N	-5.97	114.46	120.31
1	b	521	GLY	C-N-CA	-5.97	114.46	120.31
1	i	521	GLY	CA-C-N	-5.97	114.46	120.31
1	i	521	GLY	C-N-CA	-5.97	114.46	120.31
1	q	521	GLY	CA-C-N	-5.97	114.46	120.31
1	q	521	GLY	C-N-CA	-5.97	114.46	120.31
1	l	521	GLY	CA-C-N	-5.96	114.47	120.31
1	l	521	GLY	C-N-CA	-5.96	114.47	120.31
1	4	521	GLY	CA-C-N	-5.96	114.47	120.31
1	4	521	GLY	C-N-CA	-5.96	114.47	120.31
1	h	521	GLY	CA-C-N	-5.96	114.47	120.31
1	h	521	GLY	C-N-CA	-5.96	114.47	120.31
1	w	521	GLY	CA-C-N	-5.96	114.47	120.31
1	w	521	GLY	C-N-CA	-5.96	114.47	120.31
1	H	521	GLY	CA-C-N	-5.96	114.47	120.31
1	H	521	GLY	C-N-CA	-5.96	114.47	120.31
1	P	521	GLY	CA-C-N	-5.96	114.47	120.31
1	P	521	GLY	C-N-CA	-5.96	114.47	120.31
1	y	521	GLY	CA-C-N	-5.96	114.47	120.31
1	y	521	GLY	C-N-CA	-5.96	114.47	120.31
1	l	521	GLY	CA-C-N	-5.96	114.47	120.31
1	l	521	GLY	C-N-CA	-5.96	114.47	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	521	GLY	CA-C-N	-5.95	114.48	120.31
1	W	521	GLY	C-N-CA	-5.95	114.48	120.31
1	a	521	GLY	CA-C-N	-5.95	114.48	120.31
1	a	521	GLY	C-N-CA	-5.95	114.48	120.31

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4131	0	3885	122	0
1	2	4131	0	3885	124	0
1	3	4131	0	3885	118	0
1	4	4131	0	3885	121	0
1	5	4131	0	3885	118	0
1	6	4131	0	3885	126	0
1	7	4131	0	3885	119	0
1	8	4131	0	3885	121	0
1	A	4131	0	3885	125	0
1	B	4131	0	3885	120	0
1	C	4131	0	3885	121	0
1	D	4131	0	3885	121	0
1	E	4131	0	3885	124	0
1	F	4131	0	3885	124	0
1	G	4131	0	3885	127	0
1	H	4131	0	3885	121	0
1	I	4131	0	3885	122	0
1	J	4131	0	3885	125	0
1	K	4131	0	3885	121	0
1	L	4131	0	3885	126	0
1	M	4131	0	3885	126	0
1	N	4131	0	3885	122	0
1	O	4131	0	3885	124	0
1	P	4131	0	3885	122	0
1	Q	4131	0	3885	127	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	R	4131	0	3885	128	0
1	S	4131	0	3885	122	0
1	T	4131	0	3885	123	0
1	U	4131	0	3885	128	0
1	V	4131	0	3885	120	0
1	W	4131	0	3885	124	0
1	X	4131	0	3885	122	0
1	Y	4131	0	3885	119	0
1	Z	4131	0	3885	124	0
1	a	4131	0	3885	127	0
1	b	4131	0	3885	129	0
1	c	4131	0	3885	122	0
1	d	4131	0	3885	124	0
1	e	4131	0	3885	123	0
1	f	4131	0	3885	123	0
1	g	4131	0	3885	123	0
1	h	4131	0	3885	121	0
1	i	4131	0	3885	124	0
1	j	4131	0	3885	120	0
1	k	4131	0	3885	126	0
1	l	4131	0	3885	121	0
1	m	4131	0	3885	127	0
1	n	4131	0	3885	124	0
1	o	4131	0	3885	123	0
1	p	4131	0	3885	124	0
1	q	4131	0	3885	123	0
1	r	4131	0	3885	126	0
1	s	4131	0	3885	122	0
1	t	4131	0	3885	127	0
1	u	4131	0	3885	121	0
1	v	4131	0	3885	127	0
1	w	4131	0	3885	123	0
1	x	4131	0	3885	126	0
1	y	4131	0	3885	120	0
1	z	4131	0	3885	126	0
2	1	12	0	12	1	0
2	2	12	0	12	1	0
2	3	12	0	12	1	0
2	4	12	0	12	1	0
2	5	12	0	12	1	0
2	6	12	0	12	1	0
2	7	12	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	8	12	0	12	1	0
2	A	12	0	12	1	0
2	B	12	0	12	1	0
2	C	12	0	12	1	0
2	D	12	0	12	1	0
2	E	12	0	12	1	0
2	F	12	0	12	1	0
2	G	12	0	12	1	0
2	H	12	0	12	1	0
2	I	12	0	12	1	0
2	J	12	0	12	1	0
2	K	12	0	12	1	0
2	L	12	0	12	1	0
2	M	12	0	12	1	0
2	N	12	0	12	1	0
2	O	12	0	12	1	0
2	P	12	0	12	1	0
2	Q	12	0	12	1	0
2	R	12	0	12	1	0
2	S	12	0	12	1	0
2	T	12	0	12	1	0
2	U	12	0	12	1	0
2	V	12	0	12	1	0
2	W	12	0	12	1	0
2	X	12	0	12	1	0
2	Y	12	0	12	1	0
2	Z	12	0	12	1	0
2	a	12	0	12	1	0
2	b	12	0	12	1	0
2	c	12	0	12	1	0
2	d	12	0	12	1	0
2	e	12	0	12	1	0
2	f	12	0	12	1	0
2	g	12	0	12	1	0
2	h	12	0	12	1	0
2	i	12	0	12	1	0
2	j	12	0	12	1	0
2	k	12	0	12	1	0
2	l	12	0	12	1	0
2	m	12	0	12	1	0
2	n	12	0	12	1	0
2	o	12	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	p	12	0	12	1	0
2	q	12	0	12	1	0
2	r	12	0	12	1	0
2	s	12	0	12	1	0
2	t	12	0	12	1	0
2	u	12	0	12	1	0
2	v	12	0	12	1	0
2	w	12	0	12	1	0
2	x	12	0	12	1	0
2	y	12	0	12	1	0
2	z	12	0	12	1	0
All	All	248580	0	233820	5422	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 11.

All (5422) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:550:ARG:NH1	1:Q:441:ASP:OD2	2.09	0.86
1:G:441:ASP:OD2	1:I:550:ARG:NH1	2.09	0.85
1:W:441:ASP:OD2	1:Y:550:ARG:NH1	2.09	0.85
1:n:441:ASP:OD2	1:o:550:ARG:NH1	2.09	0.85
1:r:441:ASP:OD2	1:s:550:ARG:NH1	2.09	0.85
1:z:441:ASP:OD2	1:7:550:ARG:NH1	2.09	0.85
1:E:441:ASP:OD2	1:Q:550:ARG:NH1	2.09	0.85
1:B:441:ASP:OD2	1:J:550:ARG:NH1	2.09	0.85
1:K:550:ARG:NH1	1:8:441:ASP:OD2	2.09	0.85
1:M:550:ARG:NH1	1:2:441:ASP:OD2	2.09	0.85
1:V:550:ARG:NH1	1:X:441:ASP:OD2	2.09	0.85
1:Z:441:ASP:OD2	1:x:550:ARG:NH1	2.09	0.85
1:a:550:ARG:NH1	1:b:441:ASP:OD2	2.08	0.85
1:q:441:ASP:OD2	1:r:550:ARG:NH1	2.09	0.85
1:u:441:ASP:OD2	1:v:550:ARG:NH1	2.09	0.85
1:X:550:ARG:NH1	1:5:441:ASP:OD2	2.09	0.85
1:6:441:ASP:OD2	1:b:550:ARG:NH1	2.09	0.85
1:i:441:ASP:OD2	1:j:550:ARG:NH1	2.09	0.85
1:H:550:ARG:NH1	1:Y:441:ASP:OD2	2.09	0.85
1:y:441:ASP:OD2	1:z:550:ARG:NH1	2.09	0.85
1:y:550:ARG:NH1	1:7:441:ASP:OD2	2.09	0.85
1:H:441:ASP:OD2	1:W:550:ARG:NH1	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:383:ASN:OD1	1:1:514:ARG:NH1	2.10	0.85
1:3:441:ASP:OD2	1:i:550:ARG:NH1	2.09	0.85
1:4:441:ASP:OD2	1:f:550:ARG:NH1	2.09	0.85
1:d:383:ASN:OD1	1:d:514:ARG:NH1	2.10	0.85
1:w:383:ASN:OD1	1:w:514:ARG:NH1	2.10	0.85
1:8:383:ASN:OD1	1:8:514:ARG:NH1	2.10	0.85
1:C:383:ASN:OD1	1:C:514:ARG:NH1	2.10	0.85
1:C:441:ASP:OD2	1:2:550:ARG:NH1	2.09	0.85
1:C:550:ARG:NH1	1:M:441:ASP:OD2	2.09	0.85
1:D:550:ARG:NH1	1:P:441:ASP:OD2	2.09	0.85
1:G:383:ASN:OD1	1:G:514:ARG:NH1	2.10	0.85
1:O:550:ARG:NH1	1:h:441:ASP:OD2	2.09	0.85
1:P:383:ASN:OD1	1:P:514:ARG:NH1	2.10	0.85
1:S:383:ASN:OD1	1:S:514:ARG:NH1	2.10	0.85
1:l:383:ASN:OD1	1:l:514:ARG:NH1	2.10	0.85
1:R:383:ASN:OD1	1:R:514:ARG:NH1	2.10	0.85
1:S:441:ASP:OD2	1:U:550:ARG:NH1	2.10	0.85
1:Z:383:ASN:OD1	1:Z:514:ARG:NH1	2.10	0.85
1:6:550:ARG:NH1	1:a:441:ASP:OD2	2.09	0.85
1:a:383:ASN:OD1	1:a:514:ARG:NH1	2.10	0.85
1:d:441:ASP:OD2	1:e:550:ARG:NH1	2.09	0.85
1:n:383:ASN:OD1	1:n:514:ARG:NH1	2.10	0.85
1:M:383:ASN:OD1	1:M:514:ARG:NH1	2.10	0.84
1:Q:383:ASN:OD1	1:Q:514:ARG:NH1	2.10	0.84
1:b:383:ASN:OD1	1:b:514:ARG:NH1	2.10	0.84
1:k:383:ASN:OD1	1:k:514:ARG:NH1	2.10	0.84
1:l:441:ASP:OD2	1:m:550:ARG:NH1	2.10	0.84
1:r:383:ASN:OD1	1:r:514:ARG:NH1	2.10	0.84
1:B:383:ASN:OD1	1:B:514:ARG:NH1	2.10	0.84
1:N:383:ASN:OD1	1:N:514:ARG:NH1	2.10	0.84
1:U:383:ASN:OD1	1:U:514:ARG:NH1	2.10	0.84
1:c:383:ASN:OD1	1:c:514:ARG:NH1	2.10	0.84
1:m:383:ASN:OD1	1:m:514:ARG:NH1	2.10	0.84
1:n:550:ARG:NH1	1:p:441:ASP:OD2	2.09	0.84
1:t:441:ASP:OD2	1:u:550:ARG:NH1	2.10	0.84
1:t:550:ARG:NH1	1:v:441:ASP:OD2	2.09	0.84
1:A:550:ARG:NH1	1:I:441:ASP:OD2	2.08	0.84
1:B:550:ARG:NH1	1:L:441:ASP:OD2	2.10	0.84
1:J:441:ASP:OD2	1:L:550:ARG:NH1	2.10	0.84
1:K:383:ASN:OD1	1:K:514:ARG:NH1	2.10	0.84
1:W:383:ASN:OD1	1:W:514:ARG:NH1	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:383:ASN:OD1	1:h:514:ARG:NH1	2.10	0.84
1:u:383:ASN:OD1	1:u:514:ARG:NH1	2.10	0.84
1:x:383:ASN:OD1	1:x:514:ARG:NH1	2.10	0.84
1:L:383:ASN:OD1	1:L:514:ARG:NH1	2.10	0.84
1:T:441:ASP:OD2	1:4:550:ARG:NH1	2.09	0.84
1:4:383:ASN:OD1	1:4:514:ARG:NH1	2.10	0.84
1:F:383:ASN:OD1	1:F:514:ARG:NH1	2.10	0.84
1:R:441:ASP:OD2	1:S:550:ARG:NH1	2.09	0.84
1:g:441:ASP:OD2	1:h:550:ARG:NH1	2.09	0.84
1:t:383:ASN:OD1	1:t:514:ARG:NH1	2.10	0.84
1:w:550:ARG:NH1	1:x:441:ASP:OD2	2.09	0.84
1:z:383:ASN:OD1	1:z:514:ARG:NH1	2.10	0.84
1:I:383:ASN:OD1	1:I:514:ARG:NH1	2.10	0.84
1:K:441:ASP:OD2	1:1:550:ARG:NH1	2.09	0.84
1:o:383:ASN:OD1	1:o:514:ARG:NH1	2.10	0.84
1:s:383:ASN:OD1	1:s:514:ARG:NH1	2.10	0.84
1:k:441:ASP:OD2	1:l:550:ARG:NH1	2.09	0.84
1:7:383:ASN:OD1	1:7:514:ARG:NH1	2.10	0.84
1:D:383:ASN:OD1	1:D:514:ARG:NH1	2.10	0.84
1:N:441:ASP:OD2	1:P:550:ARG:NH1	2.09	0.84
1:X:383:ASN:OD1	1:X:514:ARG:NH1	2.10	0.84
1:3:550:ARG:NH1	1:j:441:ASP:OD2	2.09	0.84
1:f:383:ASN:OD1	1:f:514:ARG:NH1	2.10	0.84
1:i:383:ASN:OD1	1:i:514:ARG:NH1	2.10	0.84
1:o:441:ASP:OD2	1:p:550:ARG:NH1	2.09	0.84
1:q:383:ASN:OD1	1:q:514:ARG:NH1	2.10	0.84
1:O:383:ASN:OD1	1:O:514:ARG:NH1	2.10	0.84
1:T:550:ARG:NH1	1:f:441:ASP:OD2	2.09	0.84
1:V:441:ASP:OD2	1:5:550:ARG:NH1	2.09	0.84
1:Y:383:ASN:OD1	1:Y:514:ARG:NH1	2.10	0.84
1:5:383:ASN:OD1	1:5:514:ARG:NH1	2.10	0.84
1:c:441:ASP:OD2	1:d:550:ARG:NH1	2.09	0.84
1:v:383:ASN:OD1	1:v:514:ARG:NH1	2.10	0.84
1:E:383:ASN:OD1	1:E:514:ARG:NH1	2.10	0.84
1:J:383:ASN:OD1	1:J:514:ARG:NH1	2.10	0.84
1:O:441:ASP:OD2	1:g:550:ARG:NH1	2.09	0.84
1:3:383:ASN:OD1	1:3:514:ARG:NH1	2.10	0.84
1:e:383:ASN:OD1	1:e:514:ARG:NH1	2.10	0.84
1:R:550:ARG:NH1	1:U:441:ASP:OD2	2.10	0.83
1:T:383:ASN:OD1	1:T:514:ARG:NH1	2.10	0.83
1:k:550:ARG:NH1	1:m:441:ASP:OD2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:ASN:OD1	1:A:514:ARG:NH1	2.10	0.83
1:A:441:ASP:OD2	1:G:550:ARG:NH1	2.10	0.83
1:2:383:ASN:OD1	1:2:514:ARG:NH1	2.10	0.83
1:6:383:ASN:OD1	1:6:514:ARG:NH1	2.10	0.83
1:q:550:ARG:NH1	1:s:441:ASP:OD2	2.09	0.83
1:D:441:ASP:OD2	1:N:550:ARG:NH1	2.09	0.83
1:g:383:ASN:OD1	1:g:514:ARG:NH1	2.10	0.83
1:y:383:ASN:OD1	1:y:514:ARG:NH1	2.10	0.83
1:E:550:ARG:NH1	1:F:441:ASP:OD2	2.09	0.83
1:H:383:ASN:OD1	1:H:514:ARG:NH1	2.10	0.83
1:V:383:ASN:OD1	1:V:514:ARG:NH1	2.10	0.83
1:p:383:ASN:OD1	1:p:514:ARG:NH1	2.10	0.83
1:c:550:ARG:NH1	1:e:441:ASP:OD2	2.09	0.83
1:j:383:ASN:OD1	1:j:514:ARG:NH1	2.10	0.83
1:Z:550:ARG:NH1	1:w:441:ASP:OD2	2.09	0.83
1:1:441:ASP:OD2	1:8:550:ARG:NH1	2.09	0.83
1:I:524:MET:HE2	1:I:573:ALA:HA	1.70	0.74
1:R:524:MET:HE2	1:R:573:ALA:HA	1.70	0.74
1:X:524:MET:HE2	1:X:573:ALA:HA	1.70	0.74
1:i:524:MET:HE2	1:i:573:ALA:HA	1.70	0.74
1:k:524:MET:HE2	1:k:573:ALA:HA	1.70	0.74
1:o:524:MET:HE2	1:o:573:ALA:HA	1.70	0.74
1:A:524:MET:HE2	1:A:573:ALA:HA	1.70	0.74
1:M:524:MET:HE2	1:M:573:ALA:HA	1.70	0.74
1:N:524:MET:HE2	1:N:573:ALA:HA	1.70	0.74
1:3:524:MET:HE2	1:3:573:ALA:HA	1.70	0.74
1:5:524:MET:HE2	1:5:573:ALA:HA	1.70	0.74
1:b:524:MET:HE2	1:b:573:ALA:HA	1.70	0.74
1:c:524:MET:HE2	1:c:573:ALA:HA	1.70	0.74
1:p:524:MET:HE2	1:p:573:ALA:HA	1.70	0.74
1:m:524:MET:HE2	1:m:573:ALA:HA	1.70	0.73
1:U:524:MET:HE2	1:U:573:ALA:HA	1.70	0.73
1:8:524:MET:HE2	1:8:573:ALA:HA	1.70	0.73
1:T:524:MET:HE2	1:T:573:ALA:HA	1.70	0.73
1:w:524:MET:HE2	1:w:573:ALA:HA	1.70	0.73
1:K:524:MET:HE2	1:K:573:ALA:HA	1.70	0.73
1:Q:524:MET:HE2	1:Q:573:ALA:HA	1.70	0.73
1:Z:524:MET:HE2	1:Z:573:ALA:HA	1.70	0.73
1:g:524:MET:HE2	1:g:573:ALA:HA	1.70	0.73
1:r:524:MET:HE2	1:r:573:ALA:HA	1.70	0.73
1:W:524:MET:HE2	1:W:573:ALA:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:524:MET:HE2	1:1:573:ALA:HA	1.70	0.73
1:z:524:MET:HE2	1:z:573:ALA:HA	1.70	0.73
1:Y:524:MET:HE2	1:Y:573:ALA:HA	1.70	0.73
1:x:524:MET:HE2	1:x:573:ALA:HA	1.70	0.73
1:7:524:MET:HE2	1:7:573:ALA:HA	1.70	0.73
1:F:524:MET:HE2	1:F:573:ALA:HA	1.70	0.73
1:v:524:MET:HE2	1:v:573:ALA:HA	1.70	0.73
1:J:524:MET:HE2	1:J:573:ALA:HA	1.70	0.73
1:V:570:ASN:HD21	1:V:607:TRP:HB2	1.54	0.73
1:j:570:ASN:HD21	1:j:607:TRP:HB2	1.54	0.73
1:s:524:MET:HE2	1:s:573:ALA:HA	1.70	0.73
1:u:524:MET:HE2	1:u:573:ALA:HA	1.70	0.73
1:B:524:MET:HE2	1:B:573:ALA:HA	1.70	0.73
1:T:570:ASN:HD21	1:T:607:TRP:HB2	1.54	0.73
1:g:570:ASN:HD21	1:g:607:TRP:HB2	1.54	0.73
1:P:570:ASN:HD21	1:P:607:TRP:HB2	1.54	0.72
1:3:570:ASN:HD21	1:3:607:TRP:HB2	1.54	0.72
1:4:524:MET:HE2	1:4:573:ALA:HA	1.70	0.72
1:5:398:GLU:OE2	1:5:650:LYS:NZ	2.21	0.72
1:5:570:ASN:HD21	1:5:607:TRP:HB2	1.54	0.72
1:d:570:ASN:HD21	1:d:607:TRP:HB2	1.54	0.72
1:v:570:ASN:HD21	1:v:607:TRP:HB2	1.54	0.72
1:C:570:ASN:HD21	1:C:607:TRP:HB2	1.54	0.72
1:E:524:MET:HE2	1:E:573:ALA:HA	1.70	0.72
1:J:570:ASN:HD21	1:J:607:TRP:HB2	1.54	0.72
1:6:570:ASN:HD21	1:6:607:TRP:HB2	1.54	0.72
1:q:524:MET:HE2	1:q:573:ALA:HA	1.70	0.72
1:P:524:MET:HE2	1:P:573:ALA:HA	1.70	0.72
1:2:570:ASN:HD21	1:2:607:TRP:HB2	1.54	0.72
1:3:398:GLU:OE2	1:3:650:LYS:NZ	2.21	0.72
1:h:524:MET:HE2	1:h:573:ALA:HA	1.70	0.72
1:k:570:ASN:HD21	1:k:607:TRP:HB2	1.54	0.72
1:n:570:ASN:HD21	1:n:607:TRP:HB2	1.54	0.72
1:G:570:ASN:HD21	1:G:607:TRP:HB2	1.54	0.72
1:Q:570:ASN:HD21	1:Q:607:TRP:HB2	1.54	0.72
1:U:570:ASN:HD21	1:U:607:TRP:HB2	1.54	0.72
1:Z:398:GLU:OE2	1:Z:650:LYS:NZ	2.21	0.72
1:a:570:ASN:HD21	1:a:607:TRP:HB2	1.54	0.72
1:r:570:ASN:HD21	1:r:607:TRP:HB2	1.54	0.72
1:R:570:ASN:HD21	1:R:607:TRP:HB2	1.54	0.72
1:d:524:MET:HE2	1:d:573:ALA:HA	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:524:MET:HE2	1:t:573:ALA:HA	1.70	0.72
1:8:398:GLU:OE2	1:8:650:LYS:NZ	2.21	0.72
1:L:524:MET:HE2	1:L:573:ALA:HA	1.70	0.72
1:S:524:MET:HE2	1:S:573:ALA:HA	1.70	0.72
1:W:570:ASN:HD21	1:W:607:TRP:HB2	1.54	0.72
1:4:570:ASN:HD21	1:4:607:TRP:HB2	1.54	0.72
1:h:570:ASN:HD21	1:h:607:TRP:HB2	1.54	0.72
1:l:524:MET:HE2	1:l:573:ALA:HA	1.70	0.72
1:m:570:ASN:HD21	1:m:607:TRP:HB2	1.54	0.72
1:f:570:ASN:HD21	1:f:607:TRP:HB2	1.54	0.72
1:z:570:ASN:HD21	1:z:607:TRP:HB2	1.54	0.72
1:H:570:ASN:HD21	1:H:607:TRP:HB2	1.54	0.72
1:6:524:MET:HE2	1:6:573:ALA:HA	1.70	0.72
1:x:570:ASN:HD21	1:x:607:TRP:HB2	1.54	0.72
1:y:570:ASN:HD21	1:y:607:TRP:HB2	1.54	0.72
1:K:570:ASN:HD21	1:K:607:TRP:HB2	1.54	0.72
1:O:570:ASN:HD21	1:O:607:TRP:HB2	1.54	0.72
1:S:570:ASN:HD21	1:S:607:TRP:HB2	1.54	0.72
1:2:524:MET:HE2	1:2:573:ALA:HA	1.70	0.72
1:b:570:ASN:HD21	1:b:607:TRP:HB2	1.54	0.72
1:F:570:ASN:HD21	1:F:607:TRP:HB2	1.54	0.72
1:M:570:ASN:HD21	1:M:607:TRP:HB2	1.54	0.72
1:V:524:MET:HE2	1:V:573:ALA:HA	1.70	0.72
1:4:247:TRP:CD1	1:4:679:VAL:HG23	2.25	0.72
1:4:398:GLU:OE2	1:4:650:LYS:NZ	2.21	0.72
1:h:247:TRP:CD1	1:h:679:VAL:HG23	2.25	0.72
1:j:524:MET:HE2	1:j:573:ALA:HA	1.70	0.72
1:D:247:TRP:CD1	1:D:679:VAL:HG23	2.25	0.71
1:E:570:ASN:HD21	1:E:607:TRP:HB2	1.54	0.71
1:G:524:MET:HE2	1:G:573:ALA:HA	1.70	0.71
1:H:247:TRP:CD1	1:H:679:VAL:HG23	2.25	0.71
1:M:247:TRP:CD1	1:M:679:VAL:HG23	2.25	0.71
1:b:247:TRP:CD1	1:b:679:VAL:HG23	2.25	0.71
1:e:247:TRP:CD1	1:e:679:VAL:HG23	2.25	0.71
1:h:398:GLU:OE2	1:h:650:LYS:NZ	2.21	0.71
1:l:570:ASN:HD21	1:l:607:TRP:HB2	1.54	0.71
1:p:247:TRP:CD1	1:p:679:VAL:HG23	2.25	0.71
1:p:570:ASN:HD21	1:p:607:TRP:HB2	1.54	0.71
1:s:570:ASN:HD21	1:s:607:TRP:HB2	1.54	0.71
1:C:247:TRP:CD1	1:C:679:VAL:HG23	2.25	0.71
1:E:247:TRP:CD1	1:E:679:VAL:HG23	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:247:TRP:CD1	1:K:679:VAL:HG23	2.25	0.71
1:2:247:TRP:CD1	1:2:679:VAL:HG23	2.25	0.71
1:6:247:TRP:CD1	1:6:679:VAL:HG23	2.25	0.71
1:a:247:TRP:CD1	1:a:679:VAL:HG23	2.25	0.71
1:a:524:MET:HE2	1:a:573:ALA:HA	1.70	0.71
1:i:570:ASN:HD21	1:i:607:TRP:HB2	1.54	0.71
1:q:247:TRP:CD1	1:q:679:VAL:HG23	2.25	0.71
1:x:247:TRP:CD1	1:x:679:VAL:HG23	2.25	0.71
1:y:247:TRP:CD1	1:y:679:VAL:HG23	2.25	0.71
1:A:247:TRP:CD1	1:A:679:VAL:HG23	2.25	0.71
1:B:570:ASN:HD21	1:B:607:TRP:HB2	1.54	0.71
1:I:398:GLU:OE2	1:I:650:LYS:NZ	2.21	0.71
1:X:247:TRP:CD1	1:X:679:VAL:HG23	2.25	0.71
1:X:570:ASN:HD21	1:X:607:TRP:HB2	1.54	0.71
1:n:524:MET:HE2	1:n:573:ALA:HA	1.70	0.71
1:A:570:ASN:HD21	1:A:607:TRP:HB2	1.54	0.71
1:V:247:TRP:CD1	1:V:679:VAL:HG23	2.25	0.71
1:3:247:TRP:CD1	1:3:679:VAL:HG23	2.25	0.71
1:i:247:TRP:CD1	1:i:679:VAL:HG23	2.25	0.71
1:q:570:ASN:HD21	1:q:607:TRP:HB2	1.54	0.71
1:u:570:ASN:HD21	1:u:607:TRP:HB2	1.54	0.71
1:B:247:TRP:CD1	1:B:679:VAL:HG23	2.25	0.71
1:C:524:MET:HE2	1:C:573:ALA:HA	1.70	0.71
1:J:247:TRP:CD1	1:J:679:VAL:HG23	2.25	0.71
1:O:524:MET:HE2	1:O:573:ALA:HA	1.70	0.71
1:5:247:TRP:CD1	1:5:679:VAL:HG23	2.25	0.71
1:j:247:TRP:CD1	1:j:679:VAL:HG23	2.25	0.71
1:o:398:GLU:OE2	1:o:650:LYS:NZ	2.21	0.71
1:8:570:ASN:HD21	1:8:607:TRP:HB2	1.54	0.71
1:N:570:ASN:HD21	1:N:607:TRP:HB2	1.54	0.71
1:W:247:TRP:CD1	1:W:679:VAL:HG23	2.25	0.71
1:Y:247:TRP:CD1	1:Y:679:VAL:HG23	2.25	0.71
1:c:247:TRP:CD1	1:c:679:VAL:HG23	2.25	0.71
1:c:570:ASN:HD21	1:c:607:TRP:HB2	1.54	0.71
1:u:247:TRP:CD1	1:u:679:VAL:HG23	2.25	0.71
1:v:247:TRP:CD1	1:v:679:VAL:HG23	2.25	0.71
1:7:247:TRP:CD1	1:7:679:VAL:HG23	2.25	0.71
1:D:524:MET:HE2	1:D:573:ALA:HA	1.70	0.71
1:E:398:GLU:OE2	1:E:650:LYS:NZ	2.21	0.71
1:H:524:MET:HE2	1:H:573:ALA:HA	1.70	0.71
1:U:247:TRP:CD1	1:U:679:VAL:HG23	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:398:GLU:OE2	1:Y:650:LYS:NZ	2.21	0.71
1:e:524:MET:HE2	1:e:573:ALA:HA	1.70	0.71
1:w:247:TRP:CD1	1:w:679:VAL:HG23	2.25	0.71
1:y:524:MET:HE2	1:y:573:ALA:HA	1.70	0.71
1:z:247:TRP:CD1	1:z:679:VAL:HG23	2.25	0.71
1:N:247:TRP:CD1	1:N:679:VAL:HG23	2.25	0.71
1:Z:570:ASN:HD21	1:Z:607:TRP:HB2	1.54	0.71
1:f:524:MET:HE2	1:f:573:ALA:HA	1.70	0.71
1:m:247:TRP:CD1	1:m:679:VAL:HG23	2.25	0.71
1:8:247:TRP:CD1	1:8:679:VAL:HG23	2.25	0.71
1:F:247:TRP:CD1	1:F:679:VAL:HG23	2.25	0.71
1:L:570:ASN:HD21	1:L:607:TRP:HB2	1.54	0.71
1:1:247:TRP:CD1	1:1:679:VAL:HG23	2.25	0.71
1:2:398:GLU:OE2	1:2:650:LYS:NZ	2.21	0.71
1:k:247:TRP:CD1	1:k:679:VAL:HG23	2.25	0.71
1:l:247:TRP:CD1	1:l:679:VAL:HG23	2.25	0.71
1:o:570:ASN:HD21	1:o:607:TRP:HB2	1.54	0.71
1:7:398:GLU:OE2	1:7:650:LYS:NZ	2.21	0.71
1:Z:247:TRP:CD1	1:Z:679:VAL:HG23	2.25	0.71
1:s:247:TRP:CD1	1:s:679:VAL:HG23	2.25	0.71
1:w:570:ASN:HD21	1:w:607:TRP:HB2	1.54	0.71
1:D:570:ASN:HD21	1:D:607:TRP:HB2	1.54	0.70
1:O:247:TRP:CD1	1:O:679:VAL:HG23	2.25	0.70
1:R:247:TRP:CD1	1:R:679:VAL:HG23	2.25	0.70
1:S:247:TRP:CD1	1:S:679:VAL:HG23	2.25	0.70
1:1:570:ASN:HD21	1:1:607:TRP:HB2	1.54	0.70
1:6:398:GLU:OE2	1:6:650:LYS:NZ	2.21	0.70
1:t:570:ASN:HD21	1:t:607:TRP:HB2	1.54	0.70
1:7:570:ASN:HD21	1:7:607:TRP:HB2	1.54	0.70
1:G:247:TRP:CD1	1:G:679:VAL:HG23	2.25	0.70
1:I:570:ASN:HD21	1:I:607:TRP:HB2	1.54	0.70
1:T:247:TRP:CD1	1:T:679:VAL:HG23	2.25	0.70
1:Y:570:ASN:HD21	1:Y:607:TRP:HB2	1.54	0.70
1:g:247:TRP:CD1	1:g:679:VAL:HG23	2.25	0.70
1:n:247:TRP:CD1	1:n:679:VAL:HG23	2.25	0.70
1:P:247:TRP:CD1	1:P:679:VAL:HG23	2.25	0.70
1:d:247:TRP:CD1	1:d:679:VAL:HG23	2.25	0.70
1:e:570:ASN:HD21	1:e:607:TRP:HB2	1.54	0.70
1:f:247:TRP:CD1	1:f:679:VAL:HG23	2.25	0.70
1:I:247:TRP:CD1	1:I:679:VAL:HG23	2.25	0.70
1:o:247:TRP:CD1	1:o:679:VAL:HG23	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:247:TRP:CD1	1:L:679:VAL:HG23	2.25	0.70
1:H:398:GLU:OE2	1:H:650:LYS:NZ	2.21	0.70
1:Q:398:GLU:OE2	1:Q:650:LYS:NZ	2.21	0.70
1:r:398:GLU:OE2	1:r:650:LYS:NZ	2.21	0.70
1:t:247:TRP:CD1	1:t:679:VAL:HG23	2.25	0.70
1:K:398:GLU:OE2	1:K:650:LYS:NZ	2.21	0.70
1:R:398:GLU:OE2	1:R:650:LYS:NZ	2.21	0.70
1:x:398:GLU:OE2	1:x:650:LYS:NZ	2.21	0.70
1:Q:247:TRP:CD1	1:Q:679:VAL:HG23	2.25	0.70
1:e:398:GLU:OE2	1:e:650:LYS:NZ	2.21	0.70
1:k:398:GLU:OE2	1:k:650:LYS:NZ	2.21	0.70
1:y:398:GLU:OE2	1:y:650:LYS:NZ	2.21	0.70
1:O:519:ASN:HB3	1:O:520:PRO:HD3	1.74	0.70
1:3:519:ASN:HB3	1:3:520:PRO:HD3	1.74	0.70
1:5:519:ASN:HB3	1:5:520:PRO:HD3	1.74	0.70
1:A:519:ASN:HB3	1:A:520:PRO:HD3	1.74	0.69
1:D:398:GLU:OE2	1:D:650:LYS:NZ	2.21	0.69
1:1:542:ILE:HD12	1:1:560:ILE:HG12	1.75	0.69
1:f:519:ASN:HB3	1:f:520:PRO:HD3	1.74	0.69
1:p:519:ASN:HB3	1:p:520:PRO:HD3	1.74	0.69
1:r:247:TRP:CD1	1:r:679:VAL:HG23	2.25	0.69
1:w:519:ASN:HB3	1:w:520:PRO:HD3	1.74	0.69
1:w:542:ILE:HD12	1:w:560:ILE:HG12	1.74	0.69
1:D:519:ASN:HB3	1:D:520:PRO:HD3	1.74	0.69
1:F:398:GLU:OE2	1:F:650:LYS:NZ	2.21	0.69
1:Z:519:ASN:HB3	1:Z:520:PRO:HD3	1.74	0.69
1:e:519:ASN:HB3	1:e:520:PRO:HD3	1.74	0.69
1:j:542:ILE:HD12	1:j:560:ILE:HG12	1.75	0.69
1:I:519:ASN:HB3	1:I:520:PRO:HD3	1.74	0.69
1:P:519:ASN:HB3	1:P:520:PRO:HD3	1.74	0.69
1:R:519:ASN:HB3	1:R:520:PRO:HD3	1.74	0.69
1:U:398:GLU:OE2	1:U:650:LYS:NZ	2.21	0.69
1:V:542:ILE:HD12	1:V:560:ILE:HG12	1.75	0.69
1:1:519:ASN:HB3	1:1:520:PRO:HD3	1.74	0.69
1:b:542:ILE:HD12	1:b:560:ILE:HG12	1.74	0.69
1:d:519:ASN:HB3	1:d:520:PRO:HD3	1.74	0.69
1:k:519:ASN:HB3	1:k:520:PRO:HD3	1.75	0.69
1:m:519:ASN:HB3	1:m:520:PRO:HD3	1.74	0.69
1:o:519:ASN:HB3	1:o:520:PRO:HD3	1.74	0.69
1:x:519:ASN:HB3	1:x:520:PRO:HD3	1.74	0.69
1:8:519:ASN:HB3	1:8:520:PRO:HD3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:542:ILE:HD12	1:D:560:ILE:HG12	1.75	0.69
1:K:519:ASN:HB3	1:K:520:PRO:HD3	1.75	0.69
1:O:542:ILE:HD12	1:O:560:ILE:HG12	1.75	0.69
1:U:519:ASN:HB3	1:U:520:PRO:HD3	1.74	0.69
1:Y:542:ILE:HD12	1:Y:560:ILE:HG12	1.74	0.69
1:e:542:ILE:HD12	1:e:560:ILE:HG12	1.75	0.69
1:7:542:ILE:HD12	1:7:560:ILE:HG12	1.74	0.69
1:M:542:ILE:HD12	1:M:560:ILE:HG12	1.75	0.69
1:N:542:ILE:HD12	1:N:560:ILE:HG12	1.74	0.69
1:U:542:ILE:HD12	1:U:560:ILE:HG12	1.75	0.69
1:c:542:ILE:HD12	1:c:560:ILE:HG12	1.74	0.69
1:j:519:ASN:HB3	1:j:520:PRO:HD3	1.74	0.69
1:s:398:GLU:OE2	1:s:650:LYS:NZ	2.21	0.69
1:v:398:GLU:OE2	1:v:650:LYS:NZ	2.21	0.69
1:B:542:ILE:HD12	1:B:560:ILE:HG12	1.75	0.69
1:J:398:GLU:OE2	1:J:650:LYS:NZ	2.21	0.69
1:O:398:GLU:OE2	1:O:650:LYS:NZ	2.21	0.69
1:V:519:ASN:HB3	1:V:520:PRO:HD3	1.74	0.69
1:f:398:GLU:OE2	1:f:650:LYS:NZ	2.21	0.69
1:f:542:ILE:HD12	1:f:560:ILE:HG12	1.75	0.69
1:m:398:GLU:OE2	1:m:650:LYS:NZ	2.21	0.69
1:m:542:ILE:HD12	1:m:560:ILE:HG12	1.75	0.69
1:B:519:ASN:HB3	1:B:520:PRO:HD3	1.74	0.69
1:3:542:ILE:HD12	1:3:560:ILE:HG12	1.74	0.69
1:5:542:ILE:HD12	1:5:560:ILE:HG12	1.74	0.69
1:u:519:ASN:HB3	1:u:520:PRO:HD3	1.74	0.69
1:u:542:ILE:HD12	1:u:560:ILE:HG12	1.75	0.69
1:C:542:ILE:HD12	1:C:560:ILE:HG12	1.75	0.69
1:F:519:ASN:HB3	1:F:520:PRO:HD3	1.74	0.69
1:H:519:ASN:HB3	1:H:520:PRO:HD3	1.74	0.69
1:Q:542:ILE:HD12	1:Q:560:ILE:HG12	1.75	0.69
1:X:542:ILE:HD12	1:X:560:ILE:HG12	1.75	0.69
1:2:519:ASN:HB3	1:2:520:PRO:HD3	1.74	0.69
1:4:542:ILE:HD12	1:4:560:ILE:HG12	1.75	0.69
1:6:519:ASN:HB3	1:6:520:PRO:HD3	1.74	0.69
1:c:519:ASN:HB3	1:c:520:PRO:HD3	1.74	0.69
1:i:542:ILE:HD12	1:i:560:ILE:HG12	1.75	0.69
1:r:542:ILE:HD12	1:r:560:ILE:HG12	1.75	0.69
1:y:519:ASN:HB3	1:y:520:PRO:HD3	1.74	0.69
1:z:542:ILE:HD12	1:z:560:ILE:HG12	1.75	0.69
1:G:519:ASN:HB3	1:G:520:PRO:HD3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:519:ASN:HB3	1:N:520:PRO:HD3	1.74	0.69
1:W:542:ILE:HD12	1:W:560:ILE:HG12	1.75	0.69
1:a:542:ILE:HD12	1:a:560:ILE:HG12	1.75	0.69
1:h:542:ILE:HD12	1:h:560:ILE:HG12	1.75	0.69
1:s:519:ASN:HB3	1:s:520:PRO:HD3	1.75	0.69
1:H:542:ILE:HD12	1:H:560:ILE:HG12	1.75	0.69
1:X:398:GLU:OE2	1:X:650:LYS:NZ	2.21	0.68
1:2:542:ILE:HD12	1:2:560:ILE:HG12	1.74	0.68
1:n:519:ASN:HB3	1:n:520:PRO:HD3	1.75	0.68
1:y:542:ILE:HD12	1:y:560:ILE:HG12	1.75	0.68
1:F:542:ILE:HD12	1:F:560:ILE:HG12	1.75	0.68
1:T:542:ILE:HD12	1:T:560:ILE:HG12	1.75	0.68
1:g:542:ILE:HD12	1:g:560:ILE:HG12	1.75	0.68
1:k:542:ILE:HD12	1:k:560:ILE:HG12	1.75	0.68
1:s:542:ILE:HD12	1:s:560:ILE:HG12	1.75	0.68
1:t:519:ASN:HB3	1:t:520:PRO:HD3	1.74	0.68
1:v:542:ILE:HD12	1:v:560:ILE:HG12	1.75	0.68
1:7:519:ASN:HB3	1:7:520:PRO:HD3	1.74	0.68
1:E:542:ILE:HD12	1:E:560:ILE:HG12	1.74	0.68
1:J:542:ILE:HD12	1:J:560:ILE:HG12	1.75	0.68
1:L:519:ASN:HB3	1:L:520:PRO:HD3	1.74	0.68
1:R:542:ILE:HD12	1:R:560:ILE:HG12	1.75	0.68
1:Y:519:ASN:HB3	1:Y:520:PRO:HD3	1.74	0.68
1:6:542:ILE:HD12	1:6:560:ILE:HG12	1.75	0.68
1:L:542:ILE:HD12	1:L:560:ILE:HG12	1.75	0.68
1:M:398:GLU:OE2	1:M:650:LYS:NZ	2.21	0.68
1:h:519:ASN:HB3	1:h:520:PRO:HD3	1.74	0.68
1:i:398:GLU:OE2	1:i:650:LYS:NZ	2.21	0.68
1:q:542:ILE:HD12	1:q:560:ILE:HG12	1.75	0.68
1:t:542:ILE:HD12	1:t:560:ILE:HG12	1.74	0.68
1:Z:542:ILE:HD12	1:Z:560:ILE:HG12	1.75	0.68
1:4:519:ASN:HB3	1:4:520:PRO:HD3	1.74	0.68
1:8:542:ILE:HD12	1:8:560:ILE:HG12	1.75	0.68
1:r:519:ASN:HB3	1:r:520:PRO:HD3	1.75	0.68
1:Q:519:ASN:HB3	1:Q:520:PRO:HD3	1.74	0.68
1:S:519:ASN:HB3	1:S:520:PRO:HD3	1.74	0.68
1:W:519:ASN:HB3	1:W:520:PRO:HD3	1.74	0.68
1:l:519:ASN:HB3	1:l:520:PRO:HD3	1.74	0.68
1:P:542:ILE:HD12	1:P:560:ILE:HG12	1.75	0.68
1:W:398:GLU:OE2	1:W:650:LYS:NZ	2.21	0.68
1:b:398:GLU:OE2	1:b:650:LYS:NZ	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:542:ILE:HD12	1:d:560:ILE:HG12	1.75	0.68
1:o:542:ILE:HD12	1:o:560:ILE:HG12	1.75	0.68
1:p:542:ILE:HD12	1:p:560:ILE:HG12	1.75	0.68
1:K:542:ILE:HD12	1:K:560:ILE:HG12	1.75	0.68
1:M:519:ASN:HB3	1:M:520:PRO:HD3	1.74	0.68
1:x:542:ILE:HD12	1:x:560:ILE:HG12	1.75	0.68
1:z:519:ASN:HB3	1:z:520:PRO:HD3	1.74	0.68
1:A:542:ILE:HD12	1:A:560:ILE:HG12	1.75	0.68
1:I:542:ILE:HD12	1:I:560:ILE:HG12	1.75	0.68
1:J:519:ASN:HB3	1:J:520:PRO:HD3	1.74	0.67
1:X:519:ASN:HB3	1:X:520:PRO:HD3	1.74	0.67
1:b:519:ASN:HB3	1:b:520:PRO:HD3	1.74	0.67
1:z:398:GLU:OE2	1:z:650:LYS:NZ	2.21	0.67
1:T:519:ASN:HB3	1:T:520:PRO:HD3	1.75	0.67
1:i:519:ASN:HB3	1:i:520:PRO:HD3	1.74	0.67
1:v:519:ASN:HB3	1:v:520:PRO:HD3	1.75	0.67
1:2:702:THR:HG22	1:3:700:GLN:HB2	1.77	0.67
1:5:700:GLN:HB2	1:6:702:THR:HG22	1.77	0.67
1:B:398:GLU:OE2	1:B:650:LYS:NZ	2.21	0.67
1:a:398:GLU:OE2	1:a:650:LYS:NZ	2.21	0.67
1:a:519:ASN:HB3	1:a:520:PRO:HD3	1.75	0.67
1:g:519:ASN:HB3	1:g:520:PRO:HD3	1.75	0.67
1:C:398:GLU:OE2	1:C:650:LYS:NZ	2.21	0.67
1:C:519:ASN:HB3	1:C:520:PRO:HD3	1.74	0.67
1:u:398:GLU:OE2	1:u:650:LYS:NZ	2.21	0.67
1:4:702:THR:HG22	1:h:700:GLN:HB2	1.77	0.67
1:j:700:GLN:HB2	1:m:702:THR:HG22	1.77	0.67
1:G:542:ILE:HD12	1:G:560:ILE:HG12	1.74	0.67
1:G:700:GLN:HB2	1:H:702:THR:HG22	1.77	0.67
1:U:702:THR:HG22	1:V:700:GLN:HB2	1.77	0.67
1:4:700:GLN:HB2	1:h:702:THR:HG22	1.77	0.67
1:n:542:ILE:HD12	1:n:560:ILE:HG12	1.75	0.67
1:n:700:GLN:HB2	1:y:702:THR:HG22	1.77	0.67
1:k:702:THR:HG22	1:r:700:GLN:HB2	1.77	0.66
1:A:398:GLU:OE2	1:A:650:LYS:NZ	2.21	0.66
1:A:702:THR:HG22	1:F:700:GLN:HB2	1.77	0.66
1:N:702:THR:HG22	1:O:700:GLN:HB2	1.78	0.66
1:Q:700:GLN:HB2	1:R:702:THR:HG22	1.77	0.66
1:V:398:GLU:OE2	1:V:650:LYS:NZ	2.21	0.66
1:c:702:THR:HG22	1:f:700:GLN:HB2	1.78	0.66
1:q:519:ASN:HB3	1:q:520:PRO:HD3	1.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:LEU:HD13	1:A:648:LEU:HD23	1.78	0.66
1:S:398:GLU:OE2	1:S:650:LYS:NZ	2.21	0.66
1:S:542:ILE:HD12	1:S:560:ILE:HG12	1.75	0.66
1:1:702:THR:HG22	1:w:700:GLN:HB2	1.77	0.66
1:5:702:THR:HG22	1:6:700:GLN:HB2	1.77	0.66
1:d:702:THR:HG22	1:q:700:GLN:HB2	1.77	0.66
1:l:398:GLU:OE2	1:l:650:LYS:NZ	2.21	0.66
1:B:397:LEU:HD13	1:B:648:LEU:HD23	1.78	0.66
1:G:397:LEU:HD13	1:G:648:LEU:HD23	1.78	0.66
1:J:700:GLN:HB2	1:K:702:THR:HG22	1.78	0.66
1:U:700:GLN:HB2	1:V:702:THR:HG22	1.78	0.66
1:1:700:GLN:HB2	1:w:702:THR:HG22	1.77	0.66
1:2:700:GLN:HB2	1:3:702:THR:HG22	1.77	0.66
1:n:397:LEU:HD13	1:n:648:LEU:HD23	1.78	0.66
1:o:397:LEU:HD13	1:o:648:LEU:HD23	1.78	0.66
1:p:397:LEU:HD13	1:p:648:LEU:HD23	1.78	0.66
1:p:398:GLU:OE2	1:p:650:LYS:NZ	2.21	0.66
1:u:397:LEU:HD13	1:u:648:LEU:HD23	1.78	0.66
1:w:397:LEU:HD13	1:w:648:LEU:HD23	1.78	0.66
1:z:397:LEU:HD13	1:z:648:LEU:HD23	1.78	0.66
1:C:700:GLN:HB2	1:L:702:THR:HG22	1.77	0.66
1:E:519:ASN:HB3	1:E:520:PRO:HD3	1.75	0.66
1:E:700:GLN:HB2	1:P:702:THR:HG22	1.77	0.66
1:E:702:THR:HG22	1:P:700:GLN:HB2	1.78	0.66
1:I:397:LEU:HD13	1:I:648:LEU:HD23	1.78	0.66
1:W:397:LEU:HD13	1:W:648:LEU:HD23	1.78	0.66
1:1:397:LEU:HD13	1:1:648:LEU:HD23	1.78	0.66
1:d:700:GLN:HB2	1:q:702:THR:HG22	1.78	0.66
1:j:398:GLU:OE2	1:j:650:LYS:NZ	2.21	0.66
1:j:702:THR:HG22	1:m:700:GLN:HB2	1.78	0.66
1:v:700:GLN:HB2	1:x:702:THR:HG22	1.78	0.66
1:E:397:LEU:HD13	1:E:648:LEU:HD23	1.78	0.66
1:d:397:LEU:HD13	1:d:648:LEU:HD23	1.78	0.66
1:g:398:GLU:OE2	1:g:650:LYS:NZ	2.21	0.66
1:l:542:ILE:HD12	1:l:560:ILE:HG12	1.75	0.66
1:x:397:LEU:HD13	1:x:648:LEU:HD23	1.78	0.66
1:G:702:THR:HG22	1:H:700:GLN:HB2	1.78	0.66
1:K:397:LEU:HD13	1:K:648:LEU:HD23	1.78	0.66
1:P:397:LEU:HD13	1:P:648:LEU:HD23	1.78	0.66
1:m:397:LEU:HD13	1:m:648:LEU:HD23	1.78	0.66
1:n:702:THR:HG22	1:y:700:GLN:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:398:GLU:OE2	1:G:650:LYS:NZ	2.21	0.66
1:U:397:LEU:HD13	1:U:648:LEU:HD23	1.78	0.66
1:b:700:GLN:HB2	1:e:702:THR:HG22	1.78	0.66
1:q:397:LEU:HD13	1:q:648:LEU:HD23	1.78	0.66
1:s:397:LEU:HD13	1:s:648:LEU:HD23	1.78	0.66
1:t:398:GLU:OE2	1:t:650:LYS:NZ	2.21	0.66
1:D:702:THR:HG22	1:M:700:GLN:HB2	1.78	0.66
1:F:397:LEU:HD13	1:F:648:LEU:HD23	1.78	0.66
1:L:398:GLU:OE2	1:L:650:LYS:NZ	2.21	0.66
1:4:355:VAL:H	1:4:646:GLN:NE2	1.94	0.66
1:h:355:VAL:H	1:h:646:GLN:NE2	1.94	0.66
1:p:702:THR:HG22	1:s:700:GLN:HB2	1.78	0.66
1:7:397:LEU:HD13	1:7:648:LEU:HD23	1.78	0.66
1:E:355:VAL:H	1:E:646:GLN:NE2	1.94	0.66
1:G:355:VAL:H	1:G:646:GLN:NE2	1.94	0.66
1:H:397:LEU:HD13	1:H:648:LEU:HD23	1.78	0.66
1:n:355:VAL:H	1:n:646:GLN:NE2	1.94	0.66
1:q:355:VAL:H	1:q:646:GLN:NE2	1.94	0.66
1:w:355:VAL:H	1:w:646:GLN:NE2	1.94	0.66
1:M:355:VAL:H	1:M:646:GLN:NE2	1.94	0.65
1:Q:355:VAL:H	1:Q:646:GLN:NE2	1.94	0.65
1:S:702:THR:HG22	1:T:700:GLN:HB2	1.77	0.65
1:W:700:GLN:HB2	1:X:702:THR:HG22	1.78	0.65
1:X:355:VAL:H	1:X:646:GLN:NE2	1.94	0.65
1:Y:397:LEU:HD13	1:Y:648:LEU:HD23	1.78	0.65
1:Y:702:THR:HG22	1:Z:700:GLN:HB2	1.78	0.65
1:1:355:VAL:H	1:1:646:GLN:NE2	1.94	0.65
1:6:397:LEU:HD13	1:6:648:LEU:HD23	1.78	0.65
1:b:355:VAL:H	1:b:646:GLN:NE2	1.94	0.65
1:i:355:VAL:H	1:i:646:GLN:NE2	1.94	0.65
1:o:702:THR:HG22	1:u:700:GLN:HB2	1.77	0.65
1:r:355:VAL:H	1:r:646:GLN:NE2	1.94	0.65
1:t:397:LEU:HD13	1:t:648:LEU:HD23	1.78	0.65
1:w:398:GLU:OE2	1:w:650:LYS:NZ	2.21	0.65
1:x:355:VAL:H	1:x:646:GLN:NE2	1.94	0.65
1:y:397:LEU:HD13	1:y:648:LEU:HD23	1.78	0.65
1:B:700:GLN:HB2	1:I:702:THR:HG22	1.77	0.65
1:D:700:GLN:HB2	1:M:702:THR:HG22	1.78	0.65
1:J:397:LEU:HD13	1:J:648:LEU:HD23	1.78	0.65
1:K:355:VAL:H	1:K:646:GLN:NE2	1.94	0.65
1:L:397:LEU:HD13	1:L:648:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:700:GLN:HB2	1:T:702:THR:HG22	1.78	0.65
1:a:702:THR:HG22	1:t:700:GLN:HB2	1.77	0.65
1:b:702:THR:HG22	1:e:700:GLN:HB2	1.78	0.65
1:i:702:THR:HG22	1:z:700:GLN:HB2	1.78	0.65
1:s:355:VAL:H	1:s:646:GLN:NE2	1.94	0.65
1:7:702:THR:HG22	1:8:700:GLN:HB2	1.78	0.65
1:P:398:GLU:OE2	1:P:650:LYS:NZ	2.21	0.65
1:a:355:VAL:H	1:a:646:GLN:NE2	1.94	0.65
1:g:355:VAL:H	1:g:646:GLN:NE2	1.94	0.65
1:g:700:GLN:HB2	1:l:702:THR:HG22	1.77	0.65
1:g:702:THR:HG22	1:l:700:GLN:HB2	1.78	0.65
1:h:397:LEU:HD13	1:h:648:LEU:HD23	1.78	0.65
1:k:355:VAL:H	1:k:646:GLN:NE2	1.94	0.65
1:n:398:GLU:OE2	1:n:650:LYS:NZ	2.21	0.65
1:B:355:VAL:H	1:B:646:GLN:NE2	1.94	0.65
1:C:355:VAL:H	1:C:646:GLN:NE2	1.94	0.65
1:F:355:VAL:H	1:F:646:GLN:NE2	1.94	0.65
1:R:355:VAL:H	1:R:646:GLN:NE2	1.94	0.65
1:T:355:VAL:H	1:T:646:GLN:NE2	1.94	0.65
1:U:355:VAL:H	1:U:646:GLN:NE2	1.94	0.65
1:2:397:LEU:HD13	1:2:648:LEU:HD23	1.78	0.65
1:4:397:LEU:HD13	1:4:648:LEU:HD23	1.78	0.65
1:f:397:LEU:HD13	1:f:648:LEU:HD23	1.78	0.65
1:u:355:VAL:H	1:u:646:GLN:NE2	1.94	0.65
1:v:397:LEU:HD13	1:v:648:LEU:HD23	1.78	0.65
1:B:702:THR:HG22	1:I:700:GLN:HB2	1.77	0.65
1:O:397:LEU:HD13	1:O:648:LEU:HD23	1.78	0.65
1:m:355:VAL:H	1:m:646:GLN:NE2	1.94	0.65
1:o:700:GLN:HB2	1:u:702:THR:HG22	1.77	0.65
1:H:355:VAL:H	1:H:646:GLN:NE2	1.94	0.65
1:6:355:VAL:H	1:6:646:GLN:NE2	1.94	0.65
1:c:355:VAL:H	1:c:646:GLN:NE2	1.94	0.65
1:c:397:LEU:HD13	1:c:648:LEU:HD23	1.78	0.65
1:d:398:GLU:OE2	1:d:650:LYS:NZ	2.21	0.65
1:C:702:THR:HG22	1:L:700:GLN:HB2	1.78	0.65
1:N:355:VAL:H	1:N:646:GLN:NE2	1.94	0.65
1:1:398:GLU:OE2	1:1:650:LYS:NZ	2.21	0.65
1:2:355:VAL:H	1:2:646:GLN:NE2	1.94	0.65
1:d:355:VAL:H	1:d:646:GLN:NE2	1.94	0.65
1:y:355:VAL:H	1:y:646:GLN:NE2	1.94	0.65
1:N:397:LEU:HD13	1:N:648:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:355:VAL:H	1:P:646:GLN:NE2	1.94	0.65
1:f:355:VAL:H	1:f:646:GLN:NE2	1.94	0.65
1:O:355:VAL:H	1:O:646:GLN:NE2	1.94	0.65
1:a:700:GLN:HB2	1:t:702:THR:HG22	1.79	0.65
1:i:397:LEU:HD13	1:i:648:LEU:HD23	1.78	0.65
1:T:398:GLU:OE2	1:T:650:LYS:NZ	2.21	0.64
1:V:355:VAL:H	1:V:646:GLN:NE2	1.94	0.64
1:j:355:VAL:H	1:j:646:GLN:NE2	1.94	0.64
1:q:398:GLU:OE2	1:q:650:LYS:NZ	2.21	0.64
1:v:355:VAL:H	1:v:646:GLN:NE2	1.94	0.64
1:z:355:VAL:H	1:z:646:GLN:NE2	1.94	0.64
1:J:355:VAL:H	1:J:646:GLN:NE2	1.94	0.64
1:W:355:VAL:H	1:W:646:GLN:NE2	1.94	0.64
1:X:397:LEU:HD13	1:X:648:LEU:HD23	1.78	0.64
1:A:700:GLN:HB2	1:F:702:THR:HG22	1.78	0.64
1:C:397:LEU:HD13	1:C:648:LEU:HD23	1.78	0.64
1:D:397:LEU:HD13	1:D:648:LEU:HD23	1.78	0.64
1:N:700:GLN:HB2	1:O:702:THR:HG22	1.78	0.64
1:R:397:LEU:HD13	1:R:648:LEU:HD23	1.78	0.64
1:Y:700:GLN:HB2	1:Z:702:THR:HG22	1.78	0.64
1:Z:355:VAL:H	1:Z:646:GLN:NE2	1.94	0.64
1:a:397:LEU:HD13	1:a:648:LEU:HD23	1.78	0.64
1:c:700:GLN:HB2	1:f:702:THR:HG22	1.78	0.64
1:k:397:LEU:HD13	1:k:648:LEU:HD23	1.78	0.64
1:o:355:VAL:H	1:o:646:GLN:NE2	1.94	0.64
1:7:700:GLN:HB2	1:8:702:THR:HG22	1.78	0.64
1:S:355:VAL:H	1:S:646:GLN:NE2	1.94	0.64
1:T:397:LEU:HD13	1:T:648:LEU:HD23	1.78	0.64
1:V:397:LEU:HD13	1:V:648:LEU:HD23	1.78	0.64
1:e:397:LEU:HD13	1:e:648:LEU:HD23	1.78	0.64
1:g:397:LEU:HD13	1:g:648:LEU:HD23	1.78	0.64
1:j:397:LEU:HD13	1:j:648:LEU:HD23	1.78	0.64
1:l:355:VAL:H	1:l:646:GLN:NE2	1.94	0.64
1:p:355:VAL:H	1:p:646:GLN:NE2	1.94	0.64
1:r:397:LEU:HD13	1:r:648:LEU:HD23	1.78	0.64
1:A:355:VAL:H	1:A:646:GLN:NE2	1.94	0.64
1:I:355:VAL:H	1:I:646:GLN:NE2	1.94	0.64
1:M:397:LEU:HD13	1:M:648:LEU:HD23	1.78	0.64
1:N:398:GLU:OE2	1:N:650:LYS:NZ	2.21	0.64
1:Q:397:LEU:HD13	1:Q:648:LEU:HD23	1.78	0.64
1:b:397:LEU:HD13	1:b:648:LEU:HD23	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:397:LEU:HD13	1:l:648:LEU:HD23	1.78	0.64
1:8:355:VAL:H	1:8:646:GLN:NE2	1.94	0.64
1:S:397:LEU:HD13	1:S:648:LEU:HD23	1.78	0.64
1:3:355:VAL:H	1:3:646:GLN:NE2	1.94	0.64
1:p:700:GLN:HB2	1:s:702:THR:HG22	1.77	0.64
1:5:355:VAL:H	1:5:646:GLN:NE2	1.94	0.64
1:i:700:GLN:HB2	1:z:702:THR:HG22	1.78	0.64
1:v:702:THR:HG22	1:x:700:GLN:HB2	1.77	0.64
1:7:355:VAL:H	1:7:646:GLN:NE2	1.94	0.64
1:J:702:THR:HG22	1:K:700:GLN:HB2	1.77	0.64
1:8:397:LEU:HD13	1:8:648:LEU:HD23	1.78	0.64
1:W:702:THR:HG22	1:X:700:GLN:HB2	1.78	0.64
1:Y:355:VAL:H	1:Y:646:GLN:NE2	1.94	0.64
1:c:398:GLU:OE2	1:c:650:LYS:NZ	2.21	0.64
1:Q:702:THR:HG22	1:R:700:GLN:HB2	1.77	0.64
1:Z:397:LEU:HD13	1:Z:648:LEU:HD23	1.78	0.64
1:5:397:LEU:HD13	1:5:648:LEU:HD23	1.78	0.64
1:L:355:VAL:H	1:L:646:GLN:NE2	1.94	0.63
1:3:397:LEU:HD13	1:3:648:LEU:HD23	1.78	0.63
1:e:355:VAL:H	1:e:646:GLN:NE2	1.94	0.63
1:k:700:GLN:HB2	1:r:702:THR:HG22	1.78	0.63
1:D:355:VAL:H	1:D:646:GLN:NE2	1.94	0.63
1:t:355:VAL:H	1:t:646:GLN:NE2	1.94	0.63
1:6:359:ALA:HB1	1:a:443:TYR:CZ	2.34	0.62
1:a:359:ALA:HB1	1:b:443:TYR:CZ	2.35	0.62
1:M:359:ALA:HB1	1:2:443:TYR:CZ	2.35	0.62
1:T:443:TYR:CZ	1:4:359:ALA:HB1	2.35	0.62
1:3:443:TYR:CZ	1:i:359:ALA:HB1	2.35	0.62
1:6:443:TYR:CZ	1:b:359:ALA:HB1	2.35	0.62
1:g:443:TYR:CZ	1:h:359:ALA:HB1	2.35	0.62
1:C:359:ALA:HB1	1:M:443:TYR:CZ	2.35	0.61
1:C:443:TYR:CZ	1:2:359:ALA:HB1	2.35	0.61
1:O:443:TYR:CZ	1:g:359:ALA:HB1	2.35	0.61
1:T:359:ALA:HB1	1:f:443:TYR:CZ	2.35	0.61
1:X:359:ALA:HB1	1:5:443:TYR:CZ	2.35	0.61
1:o:443:TYR:CZ	1:p:359:ALA:HB1	2.35	0.61
1:K:359:ALA:HB1	1:8:443:TYR:CZ	2.35	0.61
1:N:443:TYR:CZ	1:P:359:ALA:HB1	2.36	0.61
1:V:359:ALA:HB1	1:X:443:TYR:CZ	2.35	0.61
1:Z:443:TYR:CZ	1:x:359:ALA:HB1	2.35	0.61
1:c:443:TYR:CZ	1:d:359:ALA:HB1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:359:ALA:HB1	1:v:443:TYR:CZ	2.36	0.61
1:F:359:ALA:HB1	1:Q:443:TYR:CZ	2.35	0.61
1:J:443:TYR:CZ	1:L:359:ALA:HB1	2.36	0.61
1:V:443:TYR:CZ	1:5:359:ALA:HB1	2.35	0.61
1:3:359:ALA:HB1	1:j:443:TYR:CZ	2.35	0.61
1:i:443:TYR:CZ	1:j:359:ALA:HB1	2.35	0.61
1:A:359:ALA:HB1	1:I:443:TYR:CZ	2.35	0.61
1:G:443:TYR:CZ	1:I:359:ALA:HB1	2.35	0.61
1:O:359:ALA:HB1	1:h:443:TYR:CZ	2.36	0.61
1:E:443:TYR:CZ	1:Q:359:ALA:HB1	2.35	0.61
1:4:443:TYR:CZ	1:f:359:ALA:HB1	2.36	0.61
1:n:443:TYR:CZ	1:o:359:ALA:HB1	2.35	0.61
1:q:443:TYR:CZ	1:r:359:ALA:HB1	2.35	0.61
1:R:359:ALA:HB1	1:U:443:TYR:CZ	2.36	0.61
1:l:443:TYR:CZ	1:m:359:ALA:HB1	2.36	0.61
1:E:359:ALA:HB1	1:F:443:TYR:CZ	2.36	0.61
1:H:359:ALA:HB1	1:Y:443:TYR:CZ	2.36	0.61
1:S:443:TYR:CZ	1:U:359:ALA:HB1	2.36	0.61
1:q:359:ALA:HB1	1:s:443:TYR:CZ	2.36	0.61
1:r:443:TYR:CZ	1:s:359:ALA:HB1	2.35	0.61
1:y:359:ALA:HB1	1:7:443:TYR:CZ	2.36	0.61
1:z:443:TYR:CZ	1:7:359:ALA:HB1	2.36	0.61
1:W:443:TYR:CZ	1:Y:359:ALA:HB1	2.36	0.61
1:k:359:ALA:HB1	1:m:443:TYR:CZ	2.36	0.61
1:Z:359:ALA:HB1	1:w:443:TYR:CZ	2.36	0.61
1:1:443:TYR:CZ	1:8:359:ALA:HB1	2.36	0.61
1:B:443:TYR:CZ	1:J:359:ALA:HB1	2.36	0.61
1:K:443:TYR:CZ	1:1:359:ALA:HB1	2.35	0.61
1:w:359:ALA:HB1	1:x:443:TYR:CZ	2.35	0.61
1:n:359:ALA:HB1	1:p:443:TYR:CZ	2.36	0.60
1:u:443:TYR:CZ	1:v:359:ALA:HB1	2.36	0.60
1:B:359:ALA:HB1	1:L:443:TYR:CZ	2.36	0.60
1:D:359:ALA:HB1	1:P:443:TYR:CZ	2.35	0.60
1:R:443:TYR:CZ	1:S:359:ALA:HB1	2.36	0.60
1:d:443:TYR:CZ	1:e:359:ALA:HB1	2.35	0.60
1:k:443:TYR:CZ	1:l:359:ALA:HB1	2.36	0.60
1:y:443:TYR:CZ	1:z:359:ALA:HB1	2.35	0.60
1:H:443:TYR:CZ	1:W:359:ALA:HB1	2.35	0.60
1:R:420:VAL:HG11	1:R:638:PHE:HB3	1.84	0.60
1:4:420:VAL:HG11	1:4:638:PHE:HB3	1.84	0.60
1:h:420:VAL:HG11	1:h:638:PHE:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:443:TYR:CZ	1:u:359:ALA:HB1	2.36	0.60
1:A:443:TYR:CZ	1:G:359:ALA:HB1	2.36	0.60
1:D:420:VAL:HG11	1:D:638:PHE:HB3	1.84	0.60
1:V:420:VAL:HG11	1:V:638:PHE:HB3	1.84	0.60
1:Z:420:VAL:HG11	1:Z:638:PHE:HB3	1.84	0.60
1:1:420:VAL:HG11	1:1:638:PHE:HB3	1.84	0.60
1:f:420:VAL:HG11	1:f:638:PHE:HB3	1.84	0.60
1:j:420:VAL:HG11	1:j:638:PHE:HB3	1.84	0.60
1:k:420:VAL:HG11	1:k:638:PHE:HB3	1.84	0.60
1:p:420:VAL:HG11	1:p:638:PHE:HB3	1.84	0.60
1:q:420:VAL:HG11	1:q:638:PHE:HB3	1.84	0.60
1:u:420:VAL:HG11	1:u:638:PHE:HB3	1.84	0.60
1:z:420:VAL:HG11	1:z:638:PHE:HB3	1.84	0.60
1:8:420:VAL:HG11	1:8:638:PHE:HB3	1.84	0.60
1:A:420:VAL:HG11	1:A:638:PHE:HB3	1.84	0.60
1:B:420:VAL:HG11	1:B:638:PHE:HB3	1.84	0.60
1:E:420:VAL:HG11	1:E:638:PHE:HB3	1.84	0.60
1:O:420:VAL:HG11	1:O:638:PHE:HB3	1.84	0.60
1:W:420:VAL:HG11	1:W:638:PHE:HB3	1.84	0.60
1:e:420:VAL:HG11	1:e:638:PHE:HB3	1.84	0.60
1:D:443:TYR:CZ	1:N:359:ALA:HB1	2.36	0.60
1:a:420:VAL:HG11	1:a:638:PHE:HB3	1.84	0.60
1:w:420:VAL:HG11	1:w:638:PHE:HB3	1.84	0.60
1:C:420:VAL:HG11	1:C:638:PHE:HB3	1.84	0.59
1:c:359:ALA:HB1	1:e:443:TYR:CZ	2.36	0.59
1:H:373:MET:HE1	1:I:659:PRO:HG2	1.85	0.59
1:L:420:VAL:HG11	1:L:638:PHE:HB3	1.84	0.59
1:N:420:VAL:HG11	1:N:638:PHE:HB3	1.84	0.59
1:Y:420:VAL:HG11	1:Y:638:PHE:HB3	1.84	0.59
1:m:420:VAL:HG11	1:m:638:PHE:HB3	1.84	0.59
1:o:659:PRO:HG2	1:y:373:MET:HE1	1.85	0.59
1:F:420:VAL:HG11	1:F:638:PHE:HB3	1.84	0.59
1:H:659:PRO:HG2	1:Z:373:MET:HE1	1.85	0.59
1:P:373:MET:HE1	1:Q:659:PRO:HG2	1.85	0.59
1:U:420:VAL:HG11	1:U:638:PHE:HB3	1.84	0.59
1:c:420:VAL:HG11	1:c:638:PHE:HB3	1.84	0.59
1:t:420:VAL:HG11	1:t:638:PHE:HB3	1.84	0.59
1:y:659:PRO:HG2	1:8:373:MET:HE1	1.85	0.59
1:7:420:VAL:HG11	1:7:638:PHE:HB3	1.84	0.59
1:K:420:VAL:HG11	1:K:638:PHE:HB3	1.84	0.59
1:a:373:MET:HE1	1:u:659:PRO:HG2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:420:VAL:HG11	1:n:638:PHE:HB3	1.84	0.59
1:G:420:VAL:HG11	1:G:638:PHE:HB3	1.84	0.59
1:P:420:VAL:HG11	1:P:638:PHE:HB3	1.84	0.59
1:T:420:VAL:HG11	1:T:638:PHE:HB3	1.84	0.59
1:v:373:MET:HE1	1:w:659:PRO:HG2	1.85	0.59
1:x:420:VAL:HG11	1:x:638:PHE:HB3	1.84	0.59
1:B:659:PRO:HG2	1:C:373:MET:HE1	1.85	0.59
1:J:373:MET:HE1	1:1:659:PRO:HG2	1.85	0.59
1:M:659:PRO:HG2	1:3:373:MET:HE1	1.85	0.59
1:O:373:MET:HE1	1:P:659:PRO:HG2	1.85	0.59
1:O:659:PRO:HG2	1:4:373:MET:HE1	1.85	0.59
1:5:373:MET:HE1	1:b:659:PRO:HG2	1.85	0.59
1:d:373:MET:HE1	1:r:659:PRO:HG2	1.85	0.59
1:d:659:PRO:HG2	1:f:373:MET:HE1	1.85	0.59
1:f:659:PRO:HG2	1:h:373:MET:HE1	1.85	0.59
1:g:420:VAL:HG11	1:g:638:PHE:HB3	1.84	0.59
1:s:420:VAL:HG11	1:s:638:PHE:HB3	1.84	0.59
1:v:420:VAL:HG11	1:v:638:PHE:HB3	1.84	0.59
1:D:659:PRO:HG2	1:E:373:MET:HE1	1.85	0.59
1:J:420:VAL:HG11	1:J:638:PHE:HB3	1.84	0.59
1:e:659:PRO:HG2	1:q:373:MET:HE1	1.85	0.59
1:H:430:GLN:NE2	1:W:353:PRO:HB3	2.18	0.59
1:O:353:PRO:HB3	1:h:430:GLN:NE2	2.18	0.59
1:4:430:GLN:NE2	1:f:353:PRO:HB3	2.18	0.59
1:k:430:GLN:NE2	1:l:353:PRO:HB3	2.18	0.59
1:p:373:MET:HE1	1:q:659:PRO:HG2	1.85	0.59
1:p:659:PRO:HG2	1:u:373:MET:HE1	1.85	0.59
1:y:430:GLN:NE2	1:z:353:PRO:HB3	2.18	0.59
1:E:430:GLN:NE2	1:Q:353:PRO:HB3	2.18	0.59
1:R:430:GLN:NE2	1:S:353:PRO:HB3	2.18	0.59
1:d:420:VAL:HG11	1:d:638:PHE:HB3	1.84	0.59
1:q:353:PRO:HB3	1:s:430:GLN:NE2	2.18	0.59
1:C:430:GLN:NE2	1:2:353:PRO:HB3	2.19	0.58
1:E:353:PRO:HB3	1:F:430:GLN:NE2	2.18	0.58
1:J:430:GLN:NE2	1:L:353:PRO:HB3	2.18	0.58
1:K:373:MET:HE1	1:L:659:PRO:HG2	1.85	0.58
1:T:430:GLN:NE2	1:4:353:PRO:HB3	2.18	0.58
1:X:420:VAL:HG11	1:X:638:PHE:HB3	1.84	0.58
1:X:659:PRO:HG2	1:6:373:MET:HE1	1.85	0.58
1:r:420:VAL:HG11	1:r:638:PHE:HB3	1.84	0.58
1:r:430:GLN:NE2	1:s:353:PRO:HB3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:353:PRO:HB3	1:v:430:GLN:NE2	2.18	0.58
1:A:373:MET:HE1	1:E:659:PRO:HG2	1.85	0.58
1:A:659:PRO:HG2	1:B:373:MET:HE1	1.85	0.58
1:H:420:VAL:HG11	1:H:638:PHE:HB3	1.84	0.58
1:I:420:VAL:HG11	1:I:638:PHE:HB3	1.84	0.58
1:K:430:GLN:NE2	1:l:353:PRO:HB3	2.18	0.58
1:Q:420:VAL:HG11	1:Q:638:PHE:HB3	1.84	0.58
1:2:373:MET:HE1	1:i:659:PRO:HG2	1.85	0.58
1:2:420:VAL:HG11	1:2:638:PHE:HB3	1.84	0.58
1:3:420:VAL:HG11	1:3:638:PHE:HB3	1.84	0.58
1:6:420:VAL:HG11	1:6:638:PHE:HB3	1.84	0.58
1:b:420:VAL:HG11	1:b:638:PHE:HB3	1.84	0.58
1:g:430:GLN:NE2	1:h:353:PRO:HB3	2.18	0.58
1:o:420:VAL:HG11	1:o:638:PHE:HB3	1.84	0.58
1:q:430:GLN:NE2	1:r:353:PRO:HB3	2.19	0.58
1:t:659:PRO:HG2	1:x:373:MET:HE1	1.85	0.58
1:w:353:PRO:HB3	1:x:430:GLN:NE2	2.18	0.58
1:O:430:GLN:NE2	1:g:353:PRO:HB3	2.18	0.58
1:T:353:PRO:HB3	1:f:430:GLN:NE2	2.18	0.58
1:V:659:PRO:HG2	1:W:373:MET:HE1	1.85	0.58
1:Y:373:MET:HE1	1:x:659:PRO:HG2	1.85	0.58
1:i:420:VAL:HG11	1:i:638:PHE:HB3	1.84	0.58
1:j:659:PRO:HG2	1:z:373:MET:HE1	1.85	0.58
1:k:353:PRO:HB3	1:m:430:GLN:NE2	2.18	0.58
1:l:420:VAL:HG11	1:l:638:PHE:HB3	1.84	0.58
1:l:659:PRO:HG2	1:r:373:MET:HE1	1.85	0.58
1:z:430:GLN:NE2	1:7:353:PRO:HB3	2.18	0.58
1:B:353:PRO:HB3	1:L:430:GLN:NE2	2.18	0.58
1:F:353:PRO:HB3	1:Q:430:GLN:NE2	2.19	0.58
1:K:659:PRO:HG2	1:7:373:MET:HE1	1.85	0.58
1:M:420:VAL:HG11	1:M:638:PHE:HB3	1.84	0.58
1:R:659:PRO:HG2	1:V:373:MET:HE1	1.85	0.58
1:W:430:GLN:NE2	1:Y:353:PRO:HB3	2.18	0.58
1:6:659:PRO:HG2	1:t:373:MET:HE1	1.85	0.58
1:L:373:MET:HE1	1:2:659:PRO:HG2	1.85	0.58
1:R:353:PRO:HB3	1:U:430:GLN:NE2	2.18	0.58
1:S:420:VAL:HG11	1:S:638:PHE:HB3	1.84	0.58
1:5:420:VAL:HG11	1:5:638:PHE:HB3	1.84	0.58
1:b:373:MET:HE1	1:c:659:PRO:HG2	1.85	0.58
1:j:373:MET:HE1	1:k:659:PRO:HG2	1.85	0.58
1:t:430:GLN:NE2	1:u:353:PRO:HB3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:430:GLN:NE2	1:v:353:PRO:HB3	2.18	0.58
1:y:420:VAL:HG11	1:y:638:PHE:HB3	1.84	0.58
1:B:430:GLN:NE2	1:J:353:PRO:HB3	2.18	0.58
1:D:430:GLN:NE2	1:N:353:PRO:HB3	2.18	0.58
1:F:373:MET:HE1	1:G:659:PRO:HG2	1.85	0.58
1:K:353:PRO:HB3	1:8:430:GLN:NE2	2.18	0.58
1:M:373:MET:HE1	1:N:659:PRO:HG2	1.85	0.58
1:V:430:GLN:NE2	1:5:353:PRO:HB3	2.19	0.58
1:a:228:TRP:HB2	1:u:404:MET:HE3	1.85	0.58
1:h:659:PRO:HG2	1:l:373:MET:HE1	1.85	0.58
1:D:353:PRO:HB3	1:P:430:GLN:NE2	2.18	0.58
1:M:228:TRP:HB2	1:N:404:MET:HE3	1.86	0.58
1:S:373:MET:HE1	1:4:659:PRO:HG2	1.85	0.58
1:3:353:PRO:HB3	1:j:430:GLN:NE2	2.19	0.58
1:6:353:PRO:HB3	1:a:430:GLN:NE2	2.19	0.58
1:b:228:TRP:HB2	1:c:404:MET:HE3	1.86	0.58
1:c:353:PRO:HB3	1:e:430:GLN:NE2	2.18	0.58
1:i:430:GLN:NE2	1:j:353:PRO:HB3	2.18	0.58
1:A:430:GLN:NE2	1:G:353:PRO:HB3	2.18	0.58
1:H:353:PRO:HB3	1:Y:430:GLN:NE2	2.18	0.58
1:Q:373:MET:HE1	1:S:659:PRO:HG2	1.86	0.58
1:V:353:PRO:HB3	1:X:430:GLN:NE2	2.18	0.58
1:2:295:PRO:HB2	1:3:697:PRO:HD3	1.86	0.58
1:5:697:PRO:HD3	1:6:295:PRO:HB2	1.86	0.58
1:d:430:GLN:NE2	1:e:353:PRO:HB3	2.18	0.58
1:S:228:TRP:HB2	1:4:404:MET:HE3	1.86	0.58
1:Z:430:GLN:NE2	1:x:353:PRO:HB3	2.18	0.58
1:n:659:PRO:HG2	1:s:373:MET:HE1	1.85	0.58
1:w:373:MET:HE1	1:8:659:PRO:HG2	1.85	0.58
1:y:353:PRO:HB3	1:7:430:GLN:NE2	2.18	0.58
1:K:404:MET:HE3	1:7:228:TRP:HB2	1.86	0.58
1:M:353:PRO:HB3	1:2:430:GLN:NE2	2.18	0.58
1:V:404:MET:HE3	1:W:228:TRP:HB2	1.86	0.58
1:Y:228:TRP:HB2	1:x:404:MET:HE3	1.86	0.58
1:Z:659:PRO:HG2	1:l:373:MET:HE1	1.85	0.58
1:1:430:GLN:NE2	1:8:353:PRO:HB3	2.18	0.58
1:h:404:MET:HE3	1:l:228:TRP:HB2	1.86	0.58
1:i:373:MET:HE1	1:7:659:PRO:HG2	1.85	0.58
1:A:697:PRO:HD3	1:F:295:PRO:HB2	1.85	0.57
1:K:357:GLY:O	1:8:477:ASN:ND2	2.37	0.57
1:N:373:MET:HE1	1:g:659:PRO:HG2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:430:GLN:NE2	1:U:353:PRO:HB3	2.18	0.57
1:T:373:MET:HE1	1:U:659:PRO:HG2	1.85	0.57
1:Z:353:PRO:HB3	1:w:430:GLN:NE2	2.18	0.57
1:Z:477:ASN:ND2	1:x:357:GLY:O	2.37	0.57
1:6:430:GLN:NE2	1:b:353:PRO:HB3	2.18	0.57
1:j:404:MET:HE3	1:z:228:TRP:HB2	1.86	0.57
1:C:353:PRO:HB3	1:M:430:GLN:NE2	2.18	0.57
1:C:659:PRO:HG2	1:D:373:MET:HE1	1.85	0.57
1:T:659:PRO:HG2	1:c:373:MET:HE1	1.85	0.57
1:g:373:MET:HE1	1:m:659:PRO:HG2	1.85	0.57
1:l:430:GLN:NE2	1:m:353:PRO:HB3	2.18	0.57
1:B:697:PRO:HD3	1:I:295:PRO:HB2	1.86	0.57
1:G:373:MET:HE1	1:W:659:PRO:HG2	1.85	0.57
1:J:295:PRO:HB2	1:K:697:PRO:HD3	1.86	0.57
1:O:404:MET:HE3	1:4:228:TRP:HB2	1.86	0.57
1:U:228:TRP:HB2	1:5:404:MET:HE3	1.87	0.57
1:X:373:MET:HE1	1:Y:659:PRO:HG2	1.85	0.57
1:3:404:MET:HE3	1:m:228:TRP:HB2	1.87	0.57
1:3:430:GLN:NE2	1:i:353:PRO:HB3	2.18	0.57
1:3:659:PRO:HG2	1:m:373:MET:HE1	1.85	0.57
1:o:295:PRO:HB2	1:u:697:PRO:HD3	1.86	0.57
1:v:295:PRO:HB2	1:x:697:PRO:HD3	1.86	0.57
1:O:228:TRP:HB2	1:P:404:MET:HE3	1.86	0.57
1:U:373:MET:HE1	1:5:659:PRO:HG2	1.85	0.57
1:X:353:PRO:HB3	1:5:430:GLN:NE2	2.18	0.57
1:6:404:MET:HE3	1:t:228:TRP:HB2	1.86	0.57
1:a:353:PRO:HB3	1:b:430:GLN:NE2	2.19	0.57
1:a:659:PRO:HG2	1:e:373:MET:HE1	1.85	0.57
1:a:697:PRO:HD3	1:t:295:PRO:HB2	1.86	0.57
1:b:697:PRO:HD3	1:e:295:PRO:HB2	1.86	0.57
1:d:404:MET:HE3	1:f:228:TRP:HB2	1.86	0.57
1:f:404:MET:HE3	1:h:228:TRP:HB2	1.86	0.57
1:n:373:MET:HE1	1:z:659:PRO:HG2	1.85	0.57
1:n:430:GLN:NE2	1:o:353:PRO:HB3	2.18	0.57
1:y:477:ASN:ND2	1:z:357:GLY:O	2.38	0.57
1:A:295:PRO:HB2	1:F:697:PRO:HD3	1.86	0.57
1:B:404:MET:HE3	1:C:228:TRP:HB2	1.86	0.57
1:C:295:PRO:HB2	1:L:697:PRO:HD3	1.86	0.57
1:C:357:GLY:O	1:M:477:ASN:ND2	2.38	0.57
1:D:295:PRO:HB2	1:M:697:PRO:HD3	1.86	0.57
1:H:477:ASN:ND2	1:W:357:GLY:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:373:MET:HE1	1:J:659:PRO:HG2	1.86	0.57
1:I:451:ILE:HG22	1:I:458:GLN:O	2.05	0.57
1:J:228:TRP:HB2	1:1:404:MET:HE3	1.86	0.57
1:P:228:TRP:HB2	1:Q:404:MET:HE3	1.86	0.57
1:V:357:GLY:O	1:X:477:ASN:ND2	2.38	0.57
1:n:404:MET:HE3	1:s:228:TRP:HB2	1.86	0.57
1:o:373:MET:HE1	1:v:659:PRO:HG2	1.86	0.57
1:o:451:ILE:HG22	1:o:458:GLN:O	2.05	0.57
1:p:295:PRO:HB2	1:s:697:PRO:HD3	1.86	0.57
1:v:228:TRP:HB2	1:w:404:MET:HE3	1.86	0.57
1:7:697:PRO:HD3	1:8:295:PRO:HB2	1.86	0.57
1:E:295:PRO:HB2	1:P:697:PRO:HD3	1.86	0.57
1:F:228:TRP:HB2	1:G:404:MET:HE3	1.86	0.57
1:G:430:GLN:NE2	1:I:353:PRO:HB3	2.18	0.57
1:N:228:TRP:HB2	1:g:404:MET:HE3	1.86	0.57
1:O:466:ALA:HB1	1:O:474:GLN:HG2	1.87	0.57
1:Q:466:ALA:HB1	1:Q:474:GLN:HG2	1.87	0.57
1:V:451:ILE:HG22	1:V:458:GLN:O	2.05	0.57
1:W:477:ASN:ND2	1:Y:357:GLY:O	2.38	0.57
1:Y:697:PRO:HD3	1:Z:295:PRO:HB2	1.86	0.57
1:1:451:ILE:HG22	1:1:458:GLN:O	2.05	0.57
1:3:466:ALA:HB1	1:3:474:GLN:HG2	1.87	0.57
1:5:466:ALA:HB1	1:5:474:GLN:HG2	1.87	0.57
1:f:466:ALA:HB1	1:f:474:GLN:HG2	1.87	0.57
1:g:477:ASN:ND2	1:h:357:GLY:O	2.38	0.57
1:i:477:ASN:ND2	1:j:357:GLY:O	2.38	0.57
1:j:451:ILE:HG22	1:j:458:GLN:O	2.05	0.57
1:l:404:MET:HE3	1:r:228:TRP:HB2	1.86	0.57
1:n:353:PRO:HB3	1:p:430:GLN:NE2	2.18	0.57
1:t:451:ILE:HG22	1:t:458:GLN:O	2.05	0.57
1:A:353:PRO:HB3	1:I:430:GLN:NE2	2.19	0.57
1:H:451:ILE:HG22	1:H:458:GLN:O	2.05	0.57
1:L:228:TRP:HB2	1:2:404:MET:HE3	1.87	0.57
1:T:404:MET:HE3	1:c:228:TRP:HB2	1.86	0.57
1:T:477:ASN:ND2	1:4:357:GLY:O	2.38	0.57
1:U:466:ALA:HB1	1:U:474:GLN:HG2	1.87	0.57
1:W:449:LYS:HB3	1:W:462:LYS:HB2	1.87	0.57
1:4:295:PRO:HB2	1:h:697:PRO:HD3	1.86	0.57
1:c:430:GLN:NE2	1:d:353:PRO:HB3	2.18	0.57
1:d:697:PRO:HD3	1:q:295:PRO:HB2	1.86	0.57
1:f:451:ILE:HG22	1:f:458:GLN:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:697:PRO:HD3	1:r:295:PRO:HB2	1.86	0.57
1:m:466:ALA:HB1	1:m:474:GLN:HG2	1.87	0.57
1:n:295:PRO:HB2	1:y:697:PRO:HD3	1.86	0.57
1:n:357:GLY:O	1:p:477:ASN:ND2	2.38	0.57
1:o:430:GLN:NE2	1:p:353:PRO:HB3	2.19	0.57
1:r:466:ALA:HB1	1:r:474:GLN:HG2	1.87	0.57
1:w:451:ILE:HG22	1:w:458:GLN:O	2.05	0.57
1:z:449:LYS:HB3	1:z:462:LYS:HB2	1.87	0.57
1:z:477:ASN:ND2	1:7:357:GLY:O	2.38	0.57
1:7:295:PRO:HB2	1:8:697:PRO:HD3	1.86	0.57
1:A:477:ASN:ND2	1:G:357:GLY:O	2.38	0.57
1:G:295:PRO:HB2	1:H:697:PRO:HD3	1.86	0.57
1:L:451:ILE:HG22	1:L:458:GLN:O	2.05	0.57
1:O:451:ILE:HG22	1:O:458:GLN:O	2.05	0.57
1:Q:228:TRP:HB2	1:S:404:MET:HE3	1.87	0.57
1:T:451:ILE:HG22	1:T:458:GLN:O	2.05	0.57
1:V:477:ASN:ND2	1:5:357:GLY:O	2.38	0.57
1:X:228:TRP:HB2	1:Y:404:MET:HE3	1.86	0.57
1:3:357:GLY:O	1:j:477:ASN:ND2	2.38	0.57
1:4:697:PRO:HD3	1:h:295:PRO:HB2	1.86	0.57
1:5:228:TRP:HB2	1:b:404:MET:HE3	1.87	0.57
1:d:228:TRP:HB2	1:r:404:MET:HE3	1.86	0.57
1:q:449:LYS:HB3	1:q:462:LYS:HB2	1.87	0.57
1:x:449:LYS:HB3	1:x:462:LYS:HB2	1.87	0.57
1:y:451:ILE:HG22	1:y:458:GLN:O	2.05	0.57
1:A:357:GLY:O	1:I:477:ASN:ND2	2.38	0.57
1:C:466:ALA:HB1	1:C:474:GLN:HG2	1.87	0.57
1:E:449:LYS:HB3	1:E:462:LYS:HB2	1.87	0.57
1:E:477:ASN:ND2	1:Q:357:GLY:O	2.38	0.57
1:G:228:TRP:HB2	1:W:404:MET:HE3	1.86	0.57
1:H:466:ALA:HB1	1:H:474:GLN:HG2	1.87	0.57
1:J:697:PRO:HD3	1:K:295:PRO:HB2	1.86	0.57
1:K:449:LYS:HB3	1:K:462:LYS:HB2	1.87	0.57
1:M:449:LYS:HB3	1:M:462:LYS:HB2	1.87	0.57
1:N:430:GLN:NE2	1:P:353:PRO:HB3	2.18	0.57
1:S:466:ALA:HB1	1:S:474:GLN:HG2	1.87	0.57
1:U:449:LYS:HB3	1:U:462:LYS:HB2	1.87	0.57
1:Y:295:PRO:HB2	1:Z:697:PRO:HD3	1.87	0.57
1:Z:449:LYS:HB3	1:Z:462:LYS:HB2	1.87	0.57
1:1:477:ASN:ND2	1:8:357:GLY:O	2.38	0.57
1:2:228:TRP:HB2	1:i:404:MET:HE3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:466:ALA:HB1	1:4:474:GLN:HG2	1.87	0.57
1:b:449:LYS:HB3	1:b:462:LYS:HB2	1.87	0.57
1:g:449:LYS:HB3	1:g:462:LYS:HB2	1.87	0.57
1:g:451:ILE:HG22	1:g:458:GLN:O	2.05	0.57
1:i:228:TRP:HB2	1:7:404:MET:HE3	1.86	0.57
1:j:697:PRO:HD3	1:m:295:PRO:HB2	1.86	0.57
1:l:466:ALA:HB1	1:l:474:GLN:HG2	1.87	0.57
1:m:449:LYS:HB3	1:m:462:LYS:HB2	1.87	0.57
1:n:228:TRP:HB2	1:z:404:MET:HE3	1.86	0.57
1:v:697:PRO:HD3	1:x:295:PRO:HB2	1.86	0.57
1:C:451:ILE:HG22	1:C:458:GLN:O	2.05	0.57
1:C:697:PRO:HD3	1:L:295:PRO:HB2	1.86	0.57
1:D:477:ASN:ND2	1:N:357:GLY:O	2.38	0.57
1:F:449:LYS:HB3	1:F:462:LYS:HB2	1.87	0.57
1:G:466:ALA:HB1	1:G:474:GLN:HG2	1.87	0.57
1:H:404:MET:HE3	1:Z:228:TRP:HB2	1.86	0.57
1:H:449:LYS:HB3	1:H:462:LYS:HB2	1.87	0.57
1:M:404:MET:HE3	1:3:228:TRP:HB2	1.87	0.57
1:M:451:ILE:HG22	1:M:458:GLN:O	2.05	0.57
1:Q:295:PRO:HB2	1:R:697:PRO:HD3	1.86	0.57
1:R:357:GLY:O	1:U:477:ASN:ND2	2.38	0.57
1:T:449:LYS:HB3	1:T:462:LYS:HB2	1.87	0.57
1:U:295:PRO:HB2	1:V:697:PRO:HD3	1.86	0.57
1:V:466:ALA:HB1	1:V:474:GLN:HG2	1.87	0.57
1:X:404:MET:HE3	1:6:228:TRP:HB2	1.87	0.57
1:Y:449:LYS:HB3	1:Y:462:LYS:HB2	1.87	0.57
1:Z:357:GLY:O	1:w:477:ASN:ND2	2.38	0.57
1:2:449:LYS:HB3	1:2:462:LYS:HB2	1.87	0.57
1:a:451:ILE:HG22	1:a:458:GLN:O	2.05	0.57
1:a:466:ALA:HB1	1:a:474:GLN:HG2	1.87	0.57
1:b:451:ILE:HG22	1:b:458:GLN:O	2.05	0.57
1:f:449:LYS:HB3	1:f:462:LYS:HB2	1.87	0.57
1:g:295:PRO:HB2	1:l:697:PRO:HD3	1.86	0.57
1:h:466:ALA:HB1	1:h:474:GLN:HG2	1.87	0.57
1:j:466:ALA:HB1	1:j:474:GLN:HG2	1.87	0.57
1:k:357:GLY:O	1:m:477:ASN:ND2	2.38	0.57
1:n:466:ALA:HB1	1:n:474:GLN:HG2	1.87	0.57
1:p:451:ILE:HG22	1:p:458:GLN:O	2.05	0.57
1:p:697:PRO:HD3	1:s:295:PRO:HB2	1.86	0.57
1:q:466:ALA:HB1	1:q:474:GLN:HG2	1.87	0.57
1:r:451:ILE:HG22	1:r:458:GLN:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:404:MET:HE3	1:8:228:TRP:HB2	1.86	0.57
1:y:466:ALA:HB1	1:y:474:GLN:HG2	1.87	0.57
1:7:449:LYS:HB3	1:7:462:LYS:HB2	1.87	0.57
1:8:449:LYS:HB3	1:8:462:LYS:HB2	1.87	0.57
1:C:477:ASN:ND2	1:2:357:GLY:O	2.38	0.56
1:E:466:ALA:HB1	1:E:474:GLN:HG2	1.87	0.56
1:J:449:LYS:HB3	1:J:462:LYS:HB2	1.87	0.56
1:L:449:LYS:HB3	1:L:462:LYS:HB2	1.87	0.56
1:N:466:ALA:HB1	1:N:474:GLN:HG2	1.87	0.56
1:O:449:LYS:HB3	1:O:462:LYS:HB2	1.87	0.56
1:Q:451:ILE:HG22	1:Q:458:GLN:O	2.05	0.56
1:Q:697:PRO:HD3	1:R:295:PRO:HB2	1.86	0.56
1:R:404:MET:HE3	1:V:228:TRP:HB2	1.86	0.56
1:U:697:PRO:HD3	1:V:295:PRO:HB2	1.86	0.56
1:2:697:PRO:HD3	1:3:295:PRO:HB2	1.86	0.56
1:5:295:PRO:HB2	1:6:697:PRO:HD3	1.86	0.56
1:5:451:ILE:HG22	1:5:458:GLN:O	2.05	0.56
1:6:449:LYS:HB3	1:6:462:LYS:HB2	1.87	0.56
1:c:357:GLY:O	1:e:477:ASN:ND2	2.38	0.56
1:c:466:ALA:HB1	1:c:474:GLN:HG2	1.87	0.56
1:j:295:PRO:HB2	1:m:697:PRO:HD3	1.86	0.56
1:k:373:MET:HE1	1:s:659:PRO:HG2	1.85	0.56
1:l:449:LYS:HB3	1:l:462:LYS:HB2	1.87	0.56
1:q:477:ASN:ND2	1:r:357:GLY:O	2.38	0.56
1:r:477:ASN:ND2	1:s:357:GLY:O	2.38	0.56
1:s:449:LYS:HB3	1:s:462:LYS:HB2	1.87	0.56
1:t:449:LYS:HB3	1:t:462:LYS:HB2	1.87	0.56
1:v:449:LYS:HB3	1:v:462:LYS:HB2	1.87	0.56
1:y:449:LYS:HB3	1:y:462:LYS:HB2	1.87	0.56
1:8:451:ILE:HG22	1:8:458:GLN:O	2.05	0.56
1:A:228:TRP:HB2	1:E:404:MET:HE3	1.86	0.56
1:B:466:ALA:HB1	1:B:474:GLN:HG2	1.87	0.56
1:D:357:GLY:O	1:P:477:ASN:ND2	2.38	0.56
1:E:697:PRO:HD3	1:P:295:PRO:HB2	1.86	0.56
1:N:477:ASN:ND2	1:P:357:GLY:O	2.38	0.56
1:S:449:LYS:HB3	1:S:462:LYS:HB2	1.87	0.56
1:S:697:PRO:HD3	1:T:295:PRO:HB2	1.86	0.56
1:T:228:TRP:HB2	1:U:404:MET:HE3	1.86	0.56
1:Z:451:ILE:HG22	1:Z:458:GLN:O	2.05	0.56
1:1:295:PRO:HB2	1:w:697:PRO:HD3	1.86	0.56
1:3:451:ILE:HG22	1:3:458:GLN:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:451:ILE:HG22	1:c:458:GLN:O	2.05	0.56
1:c:477:ASN:ND2	1:d:357:GLY:O	2.38	0.56
1:d:295:PRO:HB2	1:q:697:PRO:HD3	1.86	0.56
1:p:228:TRP:HB2	1:q:404:MET:HE3	1.86	0.56
1:A:451:ILE:HG22	1:A:458:GLN:O	2.05	0.56
1:B:295:PRO:HB2	1:I:697:PRO:HD3	1.86	0.56
1:C:449:LYS:HB3	1:C:462:LYS:HB2	1.87	0.56
1:D:451:ILE:HG22	1:D:458:GLN:O	2.05	0.56
1:F:466:ALA:HB1	1:F:474:GLN:HG2	1.87	0.56
1:F:659:PRO:HG2	1:R:373:MET:HE1	1.85	0.56
1:I:466:ALA:HB1	1:I:474:GLN:HG2	1.87	0.56
1:J:466:ALA:HB1	1:J:474:GLN:HG2	1.87	0.56
1:N:295:PRO:HB2	1:O:697:PRO:HD3	1.86	0.56
1:N:451:ILE:HG22	1:N:458:GLN:O	2.05	0.56
1:O:357:GLY:O	1:h:477:ASN:ND2	2.38	0.56
1:O:477:ASN:ND2	1:g:357:GLY:O	2.37	0.56
1:R:477:ASN:ND2	1:S:357:GLY:O	2.38	0.56
1:S:451:ILE:HG22	1:S:458:GLN:O	2.05	0.56
1:T:357:GLY:O	1:f:477:ASN:ND2	2.37	0.56
1:V:449:LYS:HB3	1:V:462:LYS:HB2	1.87	0.56
1:Y:466:ALA:HB1	1:Y:474:GLN:HG2	1.87	0.56
1:1:466:ALA:HB1	1:1:474:GLN:HG2	1.87	0.56
1:1:697:PRO:HD3	1:w:295:PRO:HB2	1.86	0.56
1:2:451:ILE:HG22	1:2:458:GLN:O	2.05	0.56
1:4:477:ASN:ND2	1:f:357:GLY:O	2.38	0.56
1:6:451:ILE:HG22	1:6:458:GLN:O	2.05	0.56
1:a:357:GLY:O	1:b:477:ASN:ND2	2.39	0.56
1:a:449:LYS:HB3	1:a:462:LYS:HB2	1.87	0.56
1:c:295:PRO:HB2	1:f:697:PRO:HD3	1.86	0.56
1:d:477:ASN:ND2	1:e:357:GLY:O	2.38	0.56
1:e:451:ILE:HG22	1:e:458:GLN:O	2.05	0.56
1:g:228:TRP:HB2	1:m:404:MET:HE3	1.86	0.56
1:i:449:LYS:HB3	1:i:462:LYS:HB2	1.87	0.56
1:j:228:TRP:HB2	1:k:404:MET:HE3	1.86	0.56
1:j:449:LYS:HB3	1:j:462:LYS:HB2	1.87	0.56
1:k:295:PRO:HB2	1:r:697:PRO:HD3	1.87	0.56
1:k:477:ASN:ND2	1:l:357:GLY:O	2.38	0.56
1:l:451:ILE:HG22	1:l:458:GLN:O	2.05	0.56
1:n:477:ASN:ND2	1:o:357:GLY:O	2.38	0.56
1:o:466:ALA:HB1	1:o:474:GLN:HG2	1.87	0.56
1:o:477:ASN:ND2	1:p:357:GLY:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:697:PRO:HD3	1:u:295:PRO:HB2	1.86	0.56
1:u:466:ALA:HB1	1:u:474:GLN:HG2	1.87	0.56
1:w:466:ALA:HB1	1:w:474:GLN:HG2	1.87	0.56
1:7:466:ALA:HB1	1:7:474:GLN:HG2	1.87	0.56
1:8:466:ALA:HB1	1:8:474:GLN:HG2	1.87	0.56
1:B:451:ILE:HG22	1:B:458:GLN:O	2.05	0.56
1:C:404:MET:HE3	1:D:228:TRP:HB2	1.86	0.56
1:D:404:MET:HE3	1:E:228:TRP:HB2	1.86	0.56
1:G:477:ASN:ND2	1:I:357:GLY:O	2.38	0.56
1:H:228:TRP:HB2	1:I:404:MET:HE3	1.86	0.56
1:I:228:TRP:HB2	1:J:404:MET:HE3	1.87	0.56
1:J:477:ASN:ND2	1:L:357:GLY:O	2.38	0.56
1:K:228:TRP:HB2	1:L:404:MET:HE3	1.86	0.56
1:L:466:ALA:HB1	1:L:474:GLN:HG2	1.87	0.56
1:Z:466:ALA:HB1	1:Z:474:GLN:HG2	1.87	0.56
1:2:466:ALA:HB1	1:2:474:GLN:HG2	1.87	0.56
1:6:466:ALA:HB1	1:6:474:GLN:HG2	1.87	0.56
1:d:449:LYS:HB3	1:d:462:LYS:HB2	1.87	0.56
1:e:404:MET:HE3	1:q:228:TRP:HB2	1.86	0.56
1:g:466:ALA:HB1	1:g:474:GLN:HG2	1.87	0.56
1:k:451:ILE:HG22	1:k:458:GLN:O	2.05	0.56
1:q:357:GLY:O	1:s:477:ASN:ND2	2.38	0.56
1:v:466:ALA:HB1	1:v:474:GLN:HG2	1.87	0.56
1:7:451:ILE:HG22	1:7:458:GLN:O	2.05	0.56
1:A:404:MET:HE3	1:B:228:TRP:HB2	1.86	0.56
1:A:449:LYS:HB3	1:A:462:LYS:HB2	1.87	0.56
1:E:357:GLY:O	1:F:477:ASN:ND2	2.38	0.56
1:F:357:GLY:O	1:Q:477:ASN:ND2	2.38	0.56
1:P:449:LYS:HB3	1:P:462:LYS:HB2	1.87	0.56
1:R:451:ILE:HG22	1:R:458:GLN:O	2.05	0.56
1:S:295:PRO:HB2	1:T:697:PRO:HD3	1.86	0.56
1:X:449:LYS:HB3	1:X:462:LYS:HB2	1.87	0.56
1:4:451:ILE:HG22	1:4:458:GLN:O	2.05	0.56
1:b:295:PRO:HB2	1:e:697:PRO:HD3	1.86	0.56
1:g:697:PRO:HD3	1:l:295:PRO:HB2	1.86	0.56
1:i:697:PRO:HD3	1:z:295:PRO:HB2	1.86	0.56
1:o:228:TRP:HB2	1:v:404:MET:HE3	1.87	0.56
1:s:466:ALA:HB1	1:s:474:GLN:HG2	1.87	0.56
1:t:357:GLY:O	1:v:477:ASN:ND2	2.38	0.56
1:u:451:ILE:HG22	1:u:458:GLN:O	2.05	0.56
1:u:477:ASN:ND2	1:v:357:GLY:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:357:GLY:O	1:L:477:ASN:ND2	2.38	0.56
1:B:477:ASN:ND2	1:J:357:GLY:O	2.38	0.56
1:T:466:ALA:HB1	1:T:474:GLN:HG2	1.87	0.56
1:U:451:ILE:HG22	1:U:458:GLN:O	2.05	0.56
1:W:295:PRO:HB2	1:X:697:PRO:HD3	1.86	0.56
1:Y:451:ILE:HG22	1:Y:458:GLN:O	2.05	0.56
1:a:404:MET:HE1	1:e:678:GLN:HG2	1.88	0.56
1:i:451:ILE:HG22	1:i:458:GLN:O	2.05	0.56
1:k:228:TRP:HB2	1:s:404:MET:HE3	1.86	0.56
1:n:451:ILE:HG22	1:n:458:GLN:O	2.05	0.56
1:o:404:MET:HE3	1:y:228:TRP:HB2	1.86	0.56
1:p:404:MET:HE3	1:u:228:TRP:HB2	1.86	0.56
1:p:449:LYS:HB3	1:p:462:LYS:HB2	1.87	0.56
1:t:404:MET:HE3	1:x:228:TRP:HB2	1.87	0.56
1:t:466:ALA:HB1	1:t:474:GLN:HG2	1.87	0.56
1:D:697:PRO:HD3	1:M:295:PRO:HB2	1.86	0.56
1:E:451:ILE:HG22	1:E:458:GLN:O	2.05	0.56
1:F:404:MET:HE3	1:R:228:TRP:HB2	1.86	0.56
1:F:451:ILE:HG22	1:F:458:GLN:O	2.05	0.56
1:H:357:GLY:O	1:Y:477:ASN:ND2	2.38	0.56
1:K:477:ASN:ND2	1:1:357:GLY:O	2.38	0.56
1:W:451:ILE:HG22	1:W:458:GLN:O	2.05	0.56
1:X:451:ILE:HG22	1:X:458:GLN:O	2.05	0.56
1:a:404:MET:HE3	1:e:228:TRP:HB2	1.87	0.56
1:b:466:ALA:HB1	1:b:474:GLN:HG2	1.87	0.56
1:h:451:ILE:HG22	1:h:458:GLN:O	2.05	0.56
1:k:449:LYS:HB3	1:k:462:LYS:HB2	1.87	0.56
1:m:451:ILE:HG22	1:m:458:GLN:O	2.05	0.56
1:t:477:ASN:ND2	1:u:357:GLY:O	2.38	0.56
1:w:357:GLY:O	1:x:477:ASN:ND2	2.38	0.56
1:G:451:ILE:HG22	1:G:458:GLN:O	2.05	0.56
1:J:451:ILE:HG22	1:J:458:GLN:O	2.05	0.56
1:4:415:TYR:OH	1:4:642:HIS:O	2.23	0.56
1:a:295:PRO:HB2	1:t:697:PRO:HD3	1.87	0.56
1:h:415:TYR:OH	1:h:642:HIS:O	2.23	0.56
1:q:451:ILE:HG22	1:q:458:GLN:O	2.05	0.56
1:s:451:ILE:HG22	1:s:458:GLN:O	2.05	0.56
1:v:451:ILE:HG22	1:v:458:GLN:O	2.05	0.56
1:z:451:ILE:HG22	1:z:458:GLN:O	2.05	0.56
1:I:449:LYS:HB3	1:I:462:LYS:HB2	1.87	0.56
1:M:466:ALA:HB1	1:M:474:GLN:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:449:LYS:HB3	1:l:462:LYS:HB2	1.87	0.56
1:d:451:ILE:HG22	1:d:458:GLN:O	2.05	0.56
1:o:449:LYS:HB3	1:o:462:LYS:HB2	1.87	0.56
1:w:449:LYS:HB3	1:w:462:LYS:HB2	1.87	0.56
1:y:357:GLY:O	1:7:477:ASN:ND2	2.38	0.56
1:N:697:PRO:HD3	1:O:295:PRO:HB2	1.86	0.56
1:R:466:ALA:HB1	1:R:474:GLN:HG2	1.87	0.56
1:c:697:PRO:HD3	1:f:295:PRO:HB2	1.86	0.56
1:l:477:ASN:ND2	1:m:357:GLY:O	2.38	0.56
1:n:449:LYS:HB3	1:n:462:LYS:HB2	1.87	0.56
1:x:451:ILE:HG22	1:x:458:GLN:O	2.05	0.56
1:D:415:TYR:OH	1:D:642:HIS:O	2.23	0.55
1:G:449:LYS:HB3	1:G:462:LYS:HB2	1.87	0.55
1:K:451:ILE:HG22	1:K:458:GLN:O	2.05	0.55
1:M:404:MET:HE1	1:3:678:GLN:HG2	1.88	0.55
1:P:451:ILE:HG22	1:P:458:GLN:O	2.05	0.55
1:Q:678:GLN:HG2	1:S:404:MET:HE1	1.88	0.55
1:R:449:LYS:HB3	1:R:462:LYS:HB2	1.87	0.55
1:2:678:GLN:HG2	1:i:404:MET:HE1	1.88	0.55
1:3:415:TYR:OH	1:3:642:HIS:O	2.23	0.55
1:5:415:TYR:OH	1:5:642:HIS:O	2.23	0.55
1:5:678:GLN:HG2	1:b:404:MET:HE1	1.88	0.55
1:6:357:GLY:O	1:a:477:ASN:ND2	2.39	0.55
1:a:415:TYR:OH	1:a:642:HIS:O	2.23	0.55
1:a:678:GLN:HG2	1:u:404:MET:HE1	1.89	0.55
1:e:415:TYR:OH	1:e:642:HIS:O	2.23	0.55
1:r:449:LYS:HB3	1:r:462:LYS:HB2	1.87	0.55
1:w:228:TRP:HB2	1:8:404:MET:HE3	1.86	0.55
1:D:449:LYS:HB3	1:D:462:LYS:HB2	1.87	0.55
1:D:466:ALA:HB1	1:D:474:GLN:HG2	1.87	0.55
1:Q:449:LYS:HB3	1:Q:462:LYS:HB2	1.87	0.55
1:S:477:ASN:ND2	1:U:357:GLY:O	2.38	0.55
1:X:404:MET:HE1	1:6:678:GLN:HG2	1.88	0.55
1:4:449:LYS:HB3	1:4:462:LYS:HB2	1.87	0.55
1:6:477:ASN:ND2	1:b:357:GLY:O	2.39	0.55
1:e:449:LYS:HB3	1:e:462:LYS:HB2	1.87	0.55
1:e:466:ALA:HB1	1:e:474:GLN:HG2	1.87	0.55
1:k:466:ALA:HB1	1:k:474:GLN:HG2	1.87	0.55
1:o:678:GLN:HG2	1:v:404:MET:HE1	1.88	0.55
1:8:415:TYR:OH	1:8:642:HIS:O	2.23	0.55
1:C:415:TYR:OH	1:C:642:HIS:O	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:678:GLN:HG2	1:J:404:MET:HE1	1.88	0.55
1:N:449:LYS:HB3	1:N:462:LYS:HB2	1.87	0.55
1:c:449:LYS:HB3	1:c:462:LYS:HB2	1.87	0.55
1:f:415:TYR:OH	1:f:642:HIS:O	2.23	0.55
1:i:295:PRO:HB2	1:z:697:PRO:HD3	1.86	0.55
1:v:415:TYR:OH	1:v:642:HIS:O	2.23	0.55
1:y:262:ASN:O	1:y:267:GLY:N	2.39	0.55
1:A:466:ALA:HB1	1:A:474:GLN:HG2	1.87	0.55
1:C:262:ASN:O	1:C:267:GLY:N	2.39	0.55
1:H:262:ASN:O	1:H:267:GLY:N	2.39	0.55
1:J:415:TYR:OH	1:J:642:HIS:O	2.23	0.55
1:M:357:GLY:O	1:2:477:ASN:ND2	2.39	0.55
1:P:466:ALA:HB1	1:P:474:GLN:HG2	1.87	0.55
1:V:404:MET:HE1	1:W:678:GLN:HG2	1.89	0.55
1:Z:404:MET:HE3	1:1:228:TRP:HB2	1.86	0.55
1:Z:415:TYR:OH	1:Z:642:HIS:O	2.23	0.55
1:a:262:ASN:O	1:a:267:GLY:N	2.39	0.55
1:h:449:LYS:HB3	1:h:462:LYS:HB2	1.87	0.55
1:n:697:PRO:HD3	1:y:295:PRO:HB2	1.86	0.55
1:z:466:ALA:HB1	1:z:474:GLN:HG2	1.87	0.55
1:B:404:MET:HE1	1:C:678:GLN:HG2	1.89	0.55
1:G:697:PRO:HD3	1:H:295:PRO:HB2	1.86	0.55
1:O:415:TYR:OH	1:O:642:HIS:O	2.23	0.55
1:W:466:ALA:HB1	1:W:474:GLN:HG2	1.87	0.55
1:W:697:PRO:HD3	1:X:295:PRO:HB2	1.86	0.55
1:5:449:LYS:HB3	1:5:462:LYS:HB2	1.87	0.55
1:d:466:ALA:HB1	1:d:474:GLN:HG2	1.87	0.55
1:j:404:MET:HE1	1:z:678:GLN:HG2	1.89	0.55
1:l:404:MET:HE1	1:r:678:GLN:HG2	1.89	0.55
1:C:404:MET:HE1	1:D:678:GLN:HG2	1.89	0.55
1:M:678:GLN:HG2	1:N:404:MET:HE1	1.89	0.55
1:X:466:ALA:HB1	1:X:474:GLN:HG2	1.87	0.55
1:Z:404:MET:HE1	1:1:678:GLN:HG2	1.89	0.55
1:3:449:LYS:HB3	1:3:462:LYS:HB2	1.87	0.55
1:b:678:GLN:HG2	1:c:404:MET:HE1	1.89	0.55
1:p:466:ALA:HB1	1:p:474:GLN:HG2	1.87	0.55
1:w:678:GLN:HG2	1:8:404:MET:HE1	1.89	0.55
1:x:466:ALA:HB1	1:x:474:GLN:HG2	1.87	0.55
1:A:503:TRP:HB2	2:A:801:GAL:H2	1.89	0.55
1:B:449:LYS:HB3	1:B:462:LYS:HB2	1.87	0.55
1:I:262:ASN:O	1:I:267:GLY:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:503:TRP:HB2	2:W:801:GAL:H2	1.89	0.55
1:1:262:ASN:O	1:1:267:GLY:N	2.39	0.55
1:f:262:ASN:O	1:f:267:GLY:N	2.39	0.55
1:i:678:GLN:HG2	1:7:404:MET:HE1	1.89	0.55
1:p:503:TRP:HB2	2:p:801:GAL:H2	1.89	0.55
1:w:262:ASN:O	1:w:267:GLY:N	2.39	0.55
1:z:503:TRP:HB2	2:z:801:GAL:H2	1.89	0.55
1:E:262:ASN:O	1:E:267:GLY:N	2.39	0.55
1:K:466:ALA:HB1	1:K:474:GLN:HG2	1.87	0.55
1:O:262:ASN:O	1:O:267:GLY:N	2.39	0.55
1:X:678:GLN:HG2	1:Y:404:MET:HE1	1.89	0.55
1:2:415:TYR:OH	1:2:642:HIS:O	2.23	0.55
1:a:655:PRO:HD2	1:e:676:THR:HG21	1.89	0.55
1:i:466:ALA:HB1	1:i:474:GLN:HG2	1.87	0.55
1:i:527:HIS:HE1	1:i:562:ASN:HD22	1.55	0.55
1:l:262:ASN:O	1:l:267:GLY:N	2.39	0.55
1:o:262:ASN:O	1:o:267:GLY:N	2.39	0.55
1:u:449:LYS:HB3	1:u:462:LYS:HB2	1.87	0.55
1:A:527:HIS:HE1	1:A:562:ASN:HD22	1.55	0.55
1:H:527:HIS:HE1	1:H:562:ASN:HD22	1.55	0.55
1:N:503:TRP:HB2	2:N:801:GAL:H2	1.89	0.55
1:S:262:ASN:O	1:S:267:GLY:N	2.39	0.55
1:X:527:HIS:HE1	1:X:562:ASN:HD22	1.55	0.55
1:X:655:PRO:HD2	1:6:676:THR:HG21	1.89	0.55
1:2:676:THR:HG21	1:i:655:PRO:HD2	1.89	0.55
1:3:477:ASN:ND2	1:i:357:GLY:O	2.39	0.55
1:c:503:TRP:HB2	2:c:801:GAL:H2	1.89	0.55
1:i:503:TRP:HB2	2:i:801:GAL:H2	1.89	0.55
1:p:527:HIS:HE1	1:p:562:ASN:HD22	1.55	0.55
1:q:262:ASN:O	1:q:267:GLY:N	2.39	0.55
1:x:247:TRP:HD1	1:x:679:VAL:HG23	1.72	0.55
1:y:527:HIS:HE1	1:y:562:ASN:HD22	1.55	0.55
1:K:247:TRP:HD1	1:K:679:VAL:HG23	1.72	0.55
1:U:262:ASN:O	1:U:267:GLY:N	2.39	0.55
1:V:527:HIS:HE1	1:V:562:ASN:HD22	1.55	0.55
1:X:357:GLY:O	1:5:477:ASN:ND2	2.39	0.55
1:X:503:TRP:HB2	2:X:801:GAL:H2	1.89	0.55
1:6:415:TYR:OH	1:6:642:HIS:O	2.23	0.55
1:g:678:GLN:HG2	1:m:404:MET:HE1	1.89	0.55
1:h:262:ASN:O	1:h:267:GLY:N	2.39	0.55
1:8:262:ASN:O	1:8:267:GLY:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:527:HIS:HE1	1:8:562:ASN:HD22	1.55	0.55
1:J:503:TRP:HB2	2:J:801:GAL:H2	1.89	0.54
1:J:527:HIS:HE1	1:J:562:ASN:HD22	1.55	0.54
1:T:678:GLN:HG2	1:U:404:MET:HE1	1.89	0.54
1:X:415:TYR:OH	1:X:642:HIS:O	2.23	0.54
1:Z:503:TRP:HB2	2:Z:801:GAL:H2	1.89	0.54
1:Z:527:HIS:HE1	1:Z:562:ASN:HD22	1.55	0.54
1:2:527:HIS:HE1	1:2:562:ASN:HD22	1.55	0.54
1:4:262:ASN:O	1:4:267:GLY:N	2.39	0.54
1:6:527:HIS:HE1	1:6:562:ASN:HD22	1.55	0.54
1:j:527:HIS:HE1	1:j:562:ASN:HD22	1.55	0.54
1:k:415:TYR:OH	1:k:642:HIS:O	2.23	0.54
1:k:678:GLN:HG2	1:s:404:MET:HE1	1.89	0.54
1:n:527:HIS:HE1	1:n:562:ASN:HD22	1.55	0.54
1:p:404:MET:HE1	1:u:678:GLN:HG2	1.89	0.54
1:r:262:ASN:O	1:r:267:GLY:N	2.39	0.54
1:s:262:ASN:O	1:s:267:GLY:N	2.39	0.54
1:v:503:TRP:HB2	2:v:801:GAL:H2	1.89	0.54
1:v:527:HIS:HE1	1:v:562:ASN:HD22	1.55	0.54
1:8:503:TRP:HB2	2:8:801:GAL:H2	1.89	0.54
1:A:404:MET:HE1	1:B:678:GLN:HG2	1.89	0.54
1:E:527:HIS:HE1	1:E:562:ASN:HD22	1.55	0.54
1:F:262:ASN:O	1:F:267:GLY:N	2.39	0.54
1:F:404:MET:HE1	1:R:678:GLN:HG2	1.89	0.54
1:G:527:HIS:HE1	1:G:562:ASN:HD22	1.55	0.54
1:I:503:TRP:HB2	2:I:801:GAL:H2	1.89	0.54
1:M:527:HIS:HE1	1:M:562:ASN:HD22	1.55	0.54
1:Q:262:ASN:O	1:Q:267:GLY:N	2.39	0.54
1:R:247:TRP:HD1	1:R:679:VAL:HG23	1.72	0.54
1:R:415:TYR:OH	1:R:642:HIS:O	2.23	0.54
1:Z:262:ASN:O	1:Z:267:GLY:N	2.39	0.54
1:5:503:TRP:HB2	2:5:801:GAL:H2	1.89	0.54
1:h:247:TRP:HD1	1:h:679:VAL:HG23	1.72	0.54
1:h:527:HIS:HE1	1:h:562:ASN:HD22	1.55	0.54
1:m:262:ASN:O	1:m:267:GLY:N	2.39	0.54
1:o:503:TRP:HB2	2:o:801:GAL:H2	1.89	0.54
1:C:503:TRP:HB2	2:C:801:GAL:H2	1.89	0.54
1:F:527:HIS:HE1	1:F:562:ASN:HD22	1.55	0.54
1:K:404:MET:HE1	1:7:678:GLN:HG2	1.89	0.54
1:O:590:GLN:HG2	1:g:497:ASN:HD21	1.73	0.54
1:T:497:ASN:HD21	1:f:590:GLN:HG2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:247:TRP:HD1	1:U:679:VAL:HG23	1.72	0.54
1:Y:678:GLN:HG2	1:x:404:MET:HE1	1.89	0.54
1:1:527:HIS:HE1	1:1:562:ASN:HD22	1.55	0.54
1:3:354:TYR:CZ	1:3:356:LEU:HB2	2.43	0.54
1:3:503:TRP:HB2	2:3:801:GAL:H2	1.89	0.54
1:4:247:TRP:HD1	1:4:679:VAL:HG23	1.72	0.54
1:4:527:HIS:HE1	1:4:562:ASN:HD22	1.55	0.54
1:5:354:TYR:CZ	1:5:356:LEU:HB2	2.43	0.54
1:a:503:TRP:HB2	2:a:801:GAL:H2	1.89	0.54
1:b:527:HIS:HE1	1:b:562:ASN:HD22	1.55	0.54
1:i:415:TYR:OH	1:i:642:HIS:O	2.23	0.54
1:k:247:TRP:HD1	1:k:679:VAL:HG23	1.72	0.54
1:k:503:TRP:HB2	2:k:801:GAL:H2	1.89	0.54
1:m:247:TRP:HD1	1:m:679:VAL:HG23	1.72	0.54
1:n:415:TYR:OH	1:n:642:HIS:O	2.23	0.54
1:q:527:HIS:HE1	1:q:562:ASN:HD22	1.55	0.54
1:s:527:HIS:HE1	1:s:562:ASN:HD22	1.55	0.54
1:w:354:TYR:CZ	1:w:356:LEU:HB2	2.43	0.54
1:D:503:TRP:HB2	2:D:801:GAL:H2	1.89	0.54
1:G:247:TRP:HD1	1:G:679:VAL:HG23	1.72	0.54
1:R:503:TRP:HB2	2:R:801:GAL:H2	1.89	0.54
1:1:354:TYR:CZ	1:1:356:LEU:HB2	2.43	0.54
1:c:497:ASN:HD21	1:e:590:GLN:HG2	1.72	0.54
1:d:678:GLN:HG2	1:r:404:MET:HE1	1.89	0.54
1:n:247:TRP:HD1	1:n:679:VAL:HG23	1.72	0.54
1:p:678:GLN:HG2	1:q:404:MET:HE1	1.89	0.54
1:q:497:ASN:HD21	1:s:590:GLN:HG2	1.73	0.54
1:w:527:HIS:HE1	1:w:562:ASN:HD22	1.55	0.54
1:y:415:TYR:OH	1:y:642:HIS:O	2.23	0.54
1:z:590:GLN:HG2	1:7:497:ASN:HD21	1.72	0.54
1:A:678:GLN:HG2	1:E:404:MET:HE1	1.89	0.54
1:D:590:GLN:HG2	1:N:497:ASN:HD21	1.72	0.54
1:F:354:TYR:CZ	1:F:356:LEU:HB2	2.43	0.54
1:G:354:TYR:CZ	1:G:356:LEU:HB2	2.43	0.54
1:G:415:TYR:OH	1:G:642:HIS:O	2.23	0.54
1:K:354:TYR:CZ	1:K:356:LEU:HB2	2.43	0.54
1:M:262:ASN:O	1:M:267:GLY:N	2.39	0.54
1:R:354:TYR:CZ	1:R:356:LEU:HB2	2.43	0.54
1:W:590:GLN:HG2	1:Y:497:ASN:HD21	1.72	0.54
1:Y:262:ASN:O	1:Y:267:GLY:N	2.39	0.54
1:Z:462:LYS:NZ	1:x:554:ASP:OD1	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:527:HIS:HE1	1:a:562:ASN:HD22	1.55	0.54
1:b:354:TYR:CZ	1:b:356:LEU:HB2	2.43	0.54
1:e:503:TRP:HB2	2:e:801:GAL:H2	1.89	0.54
1:n:354:TYR:CZ	1:n:356:LEU:HB2	2.43	0.54
1:s:354:TYR:CZ	1:s:356:LEU:HB2	2.43	0.54
1:t:503:TRP:HB2	2:t:801:GAL:H2	1.89	0.54
1:x:354:TYR:CZ	1:x:356:LEU:HB2	2.43	0.54
1:z:262:ASN:O	1:z:267:GLY:N	2.39	0.54
1:7:262:ASN:O	1:7:267:GLY:N	2.39	0.54
1:B:527:HIS:HE1	1:B:562:ASN:HD22	1.55	0.54
1:B:655:PRO:HD2	1:C:676:THR:HG21	1.90	0.54
1:C:527:HIS:HE1	1:C:562:ASN:HD22	1.55	0.54
1:E:497:ASN:HD21	1:F:590:GLN:HG2	1.73	0.54
1:F:655:PRO:HD2	1:R:676:THR:HG21	1.90	0.54
1:H:415:TYR:OH	1:H:642:HIS:O	2.23	0.54
1:H:678:GLN:HG2	1:I:404:MET:HE1	1.89	0.54
1:L:354:TYR:CZ	1:L:356:LEU:HB2	2.43	0.54
1:L:503:TRP:HB2	2:L:801:GAL:H2	1.89	0.54
1:M:354:TYR:CZ	1:M:356:LEU:HB2	2.43	0.54
1:M:503:TRP:HB2	2:M:801:GAL:H2	1.89	0.54
1:S:527:HIS:HE1	1:S:562:ASN:HD22	1.55	0.54
1:S:676:THR:HG21	1:4:655:PRO:HD2	1.90	0.54
1:T:527:HIS:HE1	1:T:562:ASN:HD22	1.55	0.54
1:6:655:PRO:HD2	1:t:676:THR:HG21	1.90	0.54
1:g:527:HIS:HE1	1:g:562:ASN:HD22	1.55	0.54
1:j:676:THR:HG21	1:k:655:PRO:HD2	1.90	0.54
1:k:354:TYR:CZ	1:k:356:LEU:HB2	2.43	0.54
1:k:676:THR:HG21	1:s:655:PRO:HD2	1.90	0.54
1:o:404:MET:HE1	1:y:678:GLN:HG2	1.89	0.54
1:t:404:MET:HE1	1:x:678:GLN:HG2	1.89	0.54
1:C:655:PRO:HD2	1:D:676:THR:HG21	1.90	0.54
1:D:354:TYR:CZ	1:D:356:LEU:HB2	2.43	0.54
1:K:503:TRP:HB2	2:K:801:GAL:H2	1.89	0.54
1:K:678:GLN:HG2	1:L:404:MET:HE1	1.89	0.54
1:L:676:THR:HG21	1:2:655:PRO:HD2	1.90	0.54
1:O:527:HIS:HE1	1:O:562:ASN:HD22	1.55	0.54
1:R:655:PRO:HD2	1:V:676:THR:HG21	1.90	0.54
1:S:503:TRP:HB2	2:S:801:GAL:H2	1.89	0.54
1:W:262:ASN:O	1:W:267:GLY:N	2.39	0.54
1:3:527:HIS:HE1	1:3:562:ASN:HD22	1.55	0.54
1:5:527:HIS:HE1	1:5:562:ASN:HD22	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:503:TRP:HB2	2:6:801:GAL:H2	1.89	0.54
1:d:527:HIS:HE1	1:d:562:ASN:HD22	1.55	0.54
1:e:354:TYR:CZ	1:e:356:LEU:HB2	2.43	0.54
1:f:527:HIS:HE1	1:f:562:ASN:HD22	1.55	0.54
1:g:503:TRP:HB2	2:g:801:GAL:H2	1.89	0.54
1:h:655:PRO:HD2	1:l:676:THR:HG21	1.90	0.54
1:j:354:TYR:CZ	1:j:356:LEU:HB2	2.43	0.54
1:l:527:HIS:HE1	1:l:562:ASN:HD22	1.55	0.54
1:m:415:TYR:OH	1:m:642:HIS:O	2.23	0.54
1:t:354:TYR:CZ	1:t:356:LEU:HB2	2.43	0.54
1:u:354:TYR:CZ	1:u:356:LEU:HB2	2.43	0.54
1:u:527:HIS:HE1	1:u:562:ASN:HD22	1.55	0.54
1:x:503:TRP:HB2	2:x:801:GAL:H2	1.89	0.54
1:7:247:TRP:HD1	1:7:679:VAL:HG23	1.72	0.54
1:B:354:TYR:CZ	1:B:356:LEU:HB2	2.43	0.54
1:E:354:TYR:CZ	1:E:356:LEU:HB2	2.43	0.54
1:G:678:GLN:HG2	1:W:404:MET:HE1	1.89	0.54
1:M:247:TRP:HD1	1:M:679:VAL:HG23	1.72	0.54
1:P:527:HIS:HE1	1:P:562:ASN:HD22	1.55	0.54
1:P:678:GLN:HG2	1:Q:404:MET:HE1	1.89	0.54
1:V:247:TRP:HD1	1:V:679:VAL:HG23	1.72	0.54
1:V:354:TYR:CZ	1:V:356:LEU:HB2	2.43	0.54
1:Y:503:TRP:HB2	2:Y:801:GAL:H2	1.89	0.54
1:2:503:TRP:HB2	2:2:801:GAL:H2	1.89	0.54
1:b:247:TRP:HD1	1:b:679:VAL:HG23	1.72	0.54
1:b:262:ASN:O	1:b:267:GLY:N	2.39	0.54
1:b:503:TRP:HB2	2:b:801:GAL:H2	1.89	0.54
1:d:247:TRP:HD1	1:d:679:VAL:HG23	1.72	0.54
1:d:503:TRP:HB2	2:d:801:GAL:H2	1.89	0.54
1:d:676:THR:HG21	1:r:655:PRO:HD2	1.90	0.54
1:l:503:TRP:HB2	2:l:801:GAL:H2	1.89	0.54
1:l:590:GLN:HG2	1:m:497:ASN:HD21	1.73	0.54
1:l:655:PRO:HD2	1:r:676:THR:HG21	1.90	0.54
1:q:354:TYR:CZ	1:q:356:LEU:HB2	2.43	0.54
1:z:415:TYR:OH	1:z:642:HIS:O	2.23	0.54
1:7:503:TRP:HB2	2:7:801:GAL:H2	1.89	0.54
1:H:497:ASN:HD21	1:Y:590:GLN:HG2	1.73	0.54
1:N:262:ASN:O	1:N:267:GLY:N	2.39	0.54
1:P:676:THR:HG21	1:Q:655:PRO:HD2	1.90	0.54
1:Q:676:THR:HG21	1:S:655:PRO:HD2	1.90	0.54
1:R:404:MET:HE1	1:V:678:GLN:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:503:TRP:HB2	2:T:801:GAL:H2	1.89	0.54
1:U:354:TYR:CZ	1:U:356:LEU:HB2	2.43	0.54
1:U:415:TYR:OH	1:U:642:HIS:O	2.23	0.54
1:W:415:TYR:OH	1:W:642:HIS:O	2.23	0.54
1:Y:247:TRP:HD1	1:Y:679:VAL:HG23	1.72	0.54
1:Y:676:THR:HG21	1:x:655:PRO:HD2	1.90	0.54
1:1:247:TRP:HD1	1:1:679:VAL:HG23	1.72	0.54
1:j:247:TRP:HD1	1:j:679:VAL:HG23	1.72	0.54
1:j:678:GLN:HG2	1:k:404:MET:HE1	1.89	0.54
1:m:354:TYR:CZ	1:m:356:LEU:HB2	2.43	0.54
1:o:247:TRP:HD1	1:o:679:VAL:HG23	1.72	0.54
1:t:655:PRO:HD2	1:x:676:THR:HG21	1.90	0.54
1:w:247:TRP:HD1	1:w:679:VAL:HG23	1.72	0.54
1:y:497:ASN:HD21	1:7:590:GLN:HG2	1.73	0.54
1:A:590:GLN:HG2	1:G:497:ASN:HD21	1.72	0.54
1:C:497:ASN:HD21	1:M:590:GLN:HG2	1.73	0.54
1:D:404:MET:HE1	1:E:678:GLN:HG2	1.89	0.54
1:F:678:GLN:HG2	1:G:404:MET:HE1	1.89	0.54
1:J:676:THR:HG21	1:1:655:PRO:HD2	1.90	0.54
1:K:655:PRO:HD2	1:7:676:THR:HG21	1.90	0.54
1:K:676:THR:HG21	1:L:655:PRO:HD2	1.90	0.54
1:P:503:TRP:HB2	2:P:801:GAL:H2	1.89	0.54
1:Q:354:TYR:CZ	1:Q:356:LEU:HB2	2.43	0.54
1:S:590:GLN:HG2	1:U:497:ASN:HD21	1.73	0.54
1:S:678:GLN:HG2	1:4:404:MET:HE1	1.89	0.54
1:U:503:TRP:HB2	2:U:801:GAL:H2	1.89	0.54
1:Z:655:PRO:HD2	1:1:676:THR:HG21	1.90	0.54
1:c:262:ASN:O	1:c:267:GLY:N	2.39	0.54
1:e:404:MET:HE1	1:q:678:GLN:HG2	1.89	0.54
1:f:404:MET:HE1	1:h:678:GLN:HG2	1.89	0.54
1:n:678:GLN:HG2	1:z:404:MET:HE1	1.89	0.54
1:q:503:TRP:HB2	2:q:801:GAL:H2	1.89	0.54
1:r:354:TYR:CZ	1:r:356:LEU:HB2	2.43	0.54
1:u:247:TRP:HD1	1:u:679:VAL:HG23	1.72	0.54
1:C:354:TYR:CZ	1:C:356:LEU:HB2	2.43	0.53
1:E:503:TRP:HB2	2:E:801:GAL:H2	1.89	0.53
1:F:503:TRP:HB2	2:F:801:GAL:H2	1.89	0.53
1:I:247:TRP:HD1	1:I:679:VAL:HG23	1.72	0.53
1:O:404:MET:HE1	1:4:678:GLN:HG2	1.89	0.53
1:P:247:TRP:HD1	1:P:679:VAL:HG23	1.73	0.53
1:X:262:ASN:O	1:X:267:GLY:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:354:TYR:CZ	1:f:356:LEU:HB2	2.43	0.53
1:n:404:MET:HE1	1:s:678:GLN:HG2	1.89	0.53
1:n:676:THR:HG21	1:z:655:PRO:HD2	1.90	0.53
1:p:676:THR:HG21	1:q:655:PRO:HD2	1.90	0.53
1:s:503:TRP:HB2	2:s:801:GAL:H2	1.89	0.53
1:A:676:THR:HG21	1:E:655:PRO:HD2	1.90	0.53
1:B:247:TRP:HD1	1:B:679:VAL:HG23	1.72	0.53
1:B:503:TRP:HB2	2:B:801:GAL:H2	1.89	0.53
1:G:676:THR:HG21	1:W:655:PRO:HD2	1.90	0.53
1:O:354:TYR:CZ	1:O:356:LEU:HB2	2.43	0.53
1:X:676:THR:HG21	1:Y:655:PRO:HD2	1.90	0.53
1:Y:527:HIS:HE1	1:Y:562:ASN:HD22	1.55	0.53
1:Z:354:TYR:CZ	1:Z:356:LEU:HB2	2.43	0.53
1:a:354:TYR:CZ	1:a:356:LEU:HB2	2.43	0.53
1:a:676:THR:HG21	1:u:655:PRO:HD2	1.91	0.53
1:c:527:HIS:HE1	1:c:562:ASN:HD22	1.55	0.53
1:d:590:GLN:HG2	1:e:497:ASN:HD21	1.73	0.53
1:g:354:TYR:CZ	1:g:356:LEU:HB2	2.43	0.53
1:h:404:MET:HE1	1:l:678:GLN:HG2	1.89	0.53
1:i:676:THR:HG21	1:7:655:PRO:HD2	1.90	0.53
1:m:503:TRP:HB2	2:m:801:GAL:H2	1.89	0.53
1:o:415:TYR:OH	1:o:642:HIS:O	2.23	0.53
1:u:503:TRP:HB2	2:u:801:GAL:H2	1.89	0.53
1:v:676:THR:HG21	1:w:655:PRO:HD2	1.90	0.53
1:w:676:THR:HG21	1:8:655:PRO:HD2	1.90	0.53
1:D:262:ASN:O	1:D:267:GLY:N	2.39	0.53
1:L:415:TYR:OH	1:L:642:HIS:O	2.23	0.53
1:N:527:HIS:HE1	1:N:562:ASN:HD22	1.55	0.53
1:P:354:TYR:CZ	1:P:356:LEU:HB2	2.43	0.53
1:S:296:ARG:NH2	1:T:690:GLU:OE1	2.42	0.53
1:T:354:TYR:CZ	1:T:356:LEU:HB2	2.43	0.53
1:V:497:ASN:HD21	1:X:590:GLN:HG2	1.73	0.53
1:W:296:ARG:NH2	1:X:690:GLU:OE1	2.42	0.53
1:2:262:ASN:O	1:2:267:GLY:N	2.39	0.53
1:g:690:GLU:OE1	1:l:296:ARG:NH2	2.42	0.53
1:i:690:GLU:OE1	1:z:296:ARG:NH2	2.42	0.53
1:n:503:TRP:HB2	2:n:801:GAL:H2	1.89	0.53
1:o:676:THR:HG21	1:v:655:PRO:HD2	1.90	0.53
1:t:497:ASN:HD21	1:v:590:GLN:HG2	1.73	0.53
1:7:527:HIS:HE1	1:7:562:ASN:HD22	1.55	0.53
1:8:354:TYR:CZ	1:8:356:LEU:HB2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:354:TYR:CZ	1:A:356:LEU:HB2	2.43	0.53
1:A:497:ASN:HD21	1:I:590:GLN:HG2	1.74	0.53
1:D:497:ASN:HD21	1:P:590:GLN:HG2	1.73	0.53
1:G:503:TRP:HB2	2:G:801:GAL:H2	1.89	0.53
1:H:655:PRO:HD2	1:Z:676:THR:HG21	1.90	0.53
1:I:527:HIS:HE1	1:I:562:ASN:HD22	1.55	0.53
1:I:676:THR:HG21	1:J:655:PRO:HD2	1.90	0.53
1:J:590:GLN:HG2	1:L:497:ASN:HD21	1.73	0.53
1:M:655:PRO:HD2	1:3:676:THR:HG21	1.89	0.53
1:N:354:TYR:CZ	1:N:356:LEU:HB2	2.43	0.53
1:O:503:TRP:HB2	2:O:801:GAL:H2	1.89	0.53
1:R:554:ASP:OD1	1:U:462:LYS:NZ	2.32	0.53
1:U:676:THR:HG21	1:5:655:PRO:HD2	1.90	0.53
1:X:354:TYR:CZ	1:X:356:LEU:HB2	2.43	0.53
1:3:655:PRO:HD2	1:m:676:THR:HG21	1.90	0.53
1:6:262:ASN:O	1:6:267:GLY:N	2.39	0.53
1:c:354:TYR:CZ	1:c:356:LEU:HB2	2.43	0.53
1:d:354:TYR:CZ	1:d:356:LEU:HB2	2.43	0.53
1:i:262:ASN:O	1:i:267:GLY:N	2.39	0.53
1:i:354:TYR:CZ	1:i:356:LEU:HB2	2.43	0.53
1:i:590:GLN:HG2	1:j:497:ASN:HD21	1.73	0.53
1:j:262:ASN:O	1:j:267:GLY:N	2.39	0.53
1:o:527:HIS:HE1	1:o:562:ASN:HD22	1.55	0.53
1:t:415:TYR:OH	1:t:642:HIS:O	2.23	0.53
1:v:678:GLN:HG2	1:w:404:MET:HE1	1.89	0.53
1:y:655:PRO:HD2	1:8:676:THR:HG21	1.90	0.53
1:7:354:TYR:CZ	1:7:356:LEU:HB2	2.43	0.53
1:I:415:TYR:OH	1:I:642:HIS:O	2.23	0.53
1:L:527:HIS:HE1	1:L:562:ASN:HD22	1.55	0.53
1:O:497:ASN:HD21	1:h:590:GLN:HG2	1.73	0.53
1:T:415:TYR:OH	1:T:642:HIS:O	2.23	0.53
1:T:590:GLN:HG2	1:4:497:ASN:HD21	1.73	0.53
1:Y:354:TYR:CZ	1:Y:356:LEU:HB2	2.43	0.53
1:4:354:TYR:CZ	1:4:356:LEU:HB2	2.43	0.53
1:d:415:TYR:OH	1:d:642:HIS:O	2.23	0.53
1:e:262:ASN:O	1:e:267:GLY:N	2.39	0.53
1:f:503:TRP:HB2	2:f:801:GAL:H2	1.89	0.53
1:g:415:TYR:OH	1:g:642:HIS:O	2.23	0.53
1:g:590:GLN:HG2	1:h:497:ASN:HD21	1.73	0.53
1:n:655:PRO:HD2	1:s:676:THR:HG21	1.90	0.53
1:o:354:TYR:CZ	1:o:356:LEU:HB2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:527:HIS:HE1	1:t:562:ASN:HD22	1.55	0.53
1:x:527:HIS:HE1	1:x:562:ASN:HD22	1.55	0.53
1:D:296:ARG:NH2	1:M:690:GLU:OE1	2.42	0.53
1:F:676:THR:HG21	1:G:655:PRO:HD2	1.90	0.53
1:H:404:MET:HE1	1:Z:678:GLN:HG2	1.89	0.53
1:I:354:TYR:CZ	1:I:356:LEU:HB2	2.43	0.53
1:J:678:GLN:HG2	1:1:404:MET:HE1	1.89	0.53
1:K:527:HIS:HE1	1:K:562:ASN:HD22	1.55	0.53
1:N:590:GLN:HG2	1:P:497:ASN:HD21	1.73	0.53
1:R:527:HIS:HE1	1:R:562:ASN:HD22	1.55	0.53
1:Z:590:GLN:HG2	1:x:497:ASN:HD21	1.73	0.53
1:2:354:TYR:CZ	1:2:356:LEU:HB2	2.43	0.53
1:5:676:THR:HG21	1:b:655:PRO:HD2	1.89	0.53
1:h:354:TYR:CZ	1:h:356:LEU:HB2	2.43	0.53
1:n:690:GLU:OE1	1:y:296:ARG:NH2	2.42	0.53
1:p:354:TYR:CZ	1:p:356:LEU:HB2	2.43	0.53
1:q:247:TRP:HD1	1:q:679:VAL:HG23	1.72	0.53
1:r:590:GLN:HG2	1:s:497:ASN:HD21	1.73	0.53
1:w:497:ASN:HD21	1:x:590:GLN:HG2	1.73	0.53
1:y:354:TYR:CZ	1:y:356:LEU:HB2	2.43	0.53
1:A:462:LYS:NZ	1:G:554:ASP:OD1	2.31	0.53
1:B:355:VAL:H	1:B:646:GLN:HE22	1.57	0.53
1:D:247:TRP:HD1	1:D:679:VAL:HG23	1.73	0.53
1:G:690:GLU:OE1	1:H:296:ARG:NH2	2.42	0.53
1:H:354:TYR:CZ	1:H:356:LEU:HB2	2.43	0.53
1:K:590:GLN:HG2	1:1:497:ASN:HD21	1.73	0.53
1:M:257:TYR:O	1:3:719:GLY:HA2	2.09	0.53
1:P:415:TYR:OH	1:P:642:HIS:O	2.23	0.53
1:T:404:MET:HE1	1:c:678:GLN:HG2	1.89	0.53
1:U:678:GLN:HG2	1:5:404:MET:HE1	1.89	0.53
1:V:262:ASN:O	1:V:267:GLY:N	2.39	0.53
1:V:503:TRP:HB2	2:V:801:GAL:H2	1.89	0.53
1:1:503:TRP:HB2	2:1:801:GAL:H2	1.89	0.53
1:3:404:MET:HE1	1:m:678:GLN:HG2	1.89	0.53
1:4:590:GLN:HG2	1:f:497:ASN:HD21	1.73	0.53
1:6:354:TYR:CZ	1:6:356:LEU:HB2	2.43	0.53
1:b:690:GLU:OE1	1:e:296:ARG:NH2	2.42	0.53
1:c:590:GLN:HG2	1:d:497:ASN:HD21	1.73	0.53
1:e:247:TRP:HD1	1:e:679:VAL:HG23	1.73	0.53
1:e:655:PRO:HD2	1:q:676:THR:HG21	1.90	0.53
1:i:296:ARG:NH2	1:z:690:GLU:OE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:503:TRP:HB2	2:j:801:GAL:H2	1.89	0.53
1:k:355:VAL:H	1:k:646:GLN:HE22	1.57	0.53
1:k:527:HIS:HE1	1:k:562:ASN:HD22	1.55	0.53
1:n:497:ASN:HD21	1:p:590:GLN:HG2	1.73	0.53
1:u:590:GLN:HG2	1:v:497:ASN:HD21	1.73	0.53
1:w:503:TRP:HB2	2:w:801:GAL:H2	1.89	0.53
1:y:404:MET:HE1	1:8:678:GLN:HG2	1.89	0.53
1:z:354:TYR:CZ	1:z:356:LEU:HB2	2.43	0.53
1:D:655:PRO:HD2	1:E:676:THR:HG21	1.90	0.53
1:E:247:TRP:HD1	1:E:679:VAL:HG23	1.72	0.53
1:R:355:VAL:H	1:R:646:GLN:HE22	1.57	0.53
1:R:590:GLN:HG2	1:S:497:ASN:HD21	1.73	0.53
1:S:354:TYR:CZ	1:S:356:LEU:HB2	2.43	0.53
1:U:690:GLU:OE1	1:V:296:ARG:NH2	2.42	0.53
1:W:354:TYR:CZ	1:W:356:LEU:HB2	2.43	0.53
1:W:690:GLU:OE1	1:X:296:ARG:NH2	2.42	0.53
1:Z:497:ASN:HD21	1:w:590:GLN:HG2	1.73	0.53
1:1:590:GLN:HG2	1:8:497:ASN:HD21	1.73	0.53
1:2:719:GLY:HA2	1:i:257:TYR:O	2.09	0.53
1:4:296:ARG:NH2	1:h:690:GLU:OE1	2.42	0.53
1:5:719:GLY:HA2	1:b:257:TYR:O	2.09	0.53
1:j:296:ARG:NH2	1:m:690:GLU:OE1	2.42	0.53
1:l:354:TYR:CZ	1:l:356:LEU:HB2	2.43	0.53
1:o:590:GLN:HG2	1:p:497:ASN:HD21	1.74	0.53
1:o:719:GLY:HA2	1:v:257:TYR:O	2.09	0.53
1:p:655:PRO:HD2	1:u:676:THR:HG21	1.90	0.53
1:q:590:GLN:HG2	1:r:497:ASN:HD21	1.73	0.53
1:u:355:VAL:H	1:u:646:GLN:HE22	1.57	0.53
1:v:262:ASN:O	1:v:267:GLY:N	2.39	0.53
1:B:590:GLN:HG2	1:J:497:ASN:HD21	1.73	0.53
1:D:527:HIS:HE1	1:D:562:ASN:HD22	1.55	0.53
1:I:719:GLY:HA2	1:J:257:TYR:O	2.09	0.53
1:J:262:ASN:O	1:J:267:GLY:N	2.39	0.53
1:K:497:ASN:HD21	1:8:590:GLN:HG2	1.73	0.53
1:N:678:GLN:HG2	1:g:404:MET:HE1	1.89	0.53
1:Q:296:ARG:NH2	1:R:690:GLU:OE1	2.42	0.53
1:Y:296:ARG:NH2	1:Z:690:GLU:OE1	2.42	0.53
1:4:690:GLU:OE1	1:h:296:ARG:NH2	2.42	0.53
1:d:690:GLU:OE1	1:q:296:ARG:NH2	2.42	0.53
1:k:262:ASN:O	1:k:267:GLY:N	2.39	0.53
1:p:690:GLU:OE1	1:s:296:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:415:TYR:OH	1:r:642:HIS:O	2.23	0.53
1:v:354:TYR:CZ	1:v:356:LEU:HB2	2.43	0.53
1:C:462:LYS:NZ	1:2:554:ASP:OD1	2.32	0.53
1:C:690:GLU:OE1	1:L:296:ARG:NH2	2.42	0.53
1:E:296:ARG:NH2	1:P:690:GLU:OE1	2.42	0.53
1:H:503:TRP:HB2	2:H:801:GAL:H2	1.89	0.53
1:L:678:GLN:HG2	1:2:404:MET:HE1	1.89	0.53
1:O:655:PRO:HD2	1:4:676:THR:HG21	1.90	0.53
1:O:678:GLN:HG2	1:P:404:MET:HE1	1.89	0.53
1:Q:503:TRP:HB2	2:Q:801:GAL:H2	1.89	0.53
1:Q:527:HIS:HE1	1:Q:562:ASN:HD22	1.55	0.53
1:W:355:VAL:H	1:W:646:GLN:HE22	1.57	0.53
1:W:527:HIS:HE1	1:W:562:ASN:HD22	1.55	0.53
1:5:355:VAL:H	1:5:646:GLN:HE22	1.57	0.53
1:d:404:MET:HE1	1:f:678:GLN:HG2	1.89	0.53
1:e:527:HIS:HE1	1:e:562:ASN:HD22	1.55	0.53
1:f:655:PRO:HD2	1:h:676:THR:HG21	1.90	0.53
1:k:590:GLN:HG2	1:l:497:ASN:HD21	1.73	0.53
1:r:503:TRP:HB2	2:r:801:GAL:H2	1.89	0.53
1:t:590:GLN:HG2	1:u:497:ASN:HD21	1.73	0.53
1:z:355:VAL:H	1:z:646:GLN:HE22	1.57	0.53
1:7:296:ARG:NH2	1:8:690:GLU:OE1	2.42	0.53
1:A:655:PRO:HD2	1:B:676:THR:HG21	1.90	0.52
1:B:497:ASN:HD21	1:L:590:GLN:HG2	1.73	0.52
1:C:553:VAL:HB	1:C:557:LYS:HE2	1.92	0.52
1:D:554:ASP:OD1	1:P:462:LYS:NZ	2.32	0.52
1:J:296:ARG:NH2	1:K:690:GLU:OE1	2.42	0.52
1:J:354:TYR:CZ	1:J:356:LEU:HB2	2.43	0.52
1:L:262:ASN:O	1:L:267:GLY:N	2.39	0.52
1:N:676:THR:HG21	1:g:655:PRO:HD2	1.90	0.52
1:Q:415:TYR:OH	1:Q:642:HIS:O	2.23	0.52
1:R:262:ASN:O	1:R:267:GLY:N	2.39	0.52
1:S:553:VAL:HB	1:S:557:LYS:HE2	1.92	0.52
1:V:415:TYR:OH	1:V:642:HIS:O	2.23	0.52
1:X:257:TYR:O	1:6:719:GLY:HA2	2.09	0.52
1:3:355:VAL:H	1:3:646:GLN:HE22	1.57	0.52
1:5:262:ASN:O	1:5:267:GLY:N	2.39	0.52
1:6:404:MET:HE1	1:t:678:GLN:HG2	1.89	0.52
1:a:719:GLY:HA2	1:u:257:TYR:O	2.09	0.52
1:k:497:ASN:HD21	1:m:590:GLN:HG2	1.73	0.52
1:m:527:HIS:HE1	1:m:562:ASN:HD22	1.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:355:VAL:H	1:r:646:GLN:HE22	1.57	0.52
1:r:527:HIS:HE1	1:r:562:ASN:HD22	1.55	0.52
1:y:503:TRP:HB2	2:y:801:GAL:H2	1.89	0.52
1:z:527:HIS:HE1	1:z:562:ASN:HD22	1.55	0.52
1:A:296:ARG:NH2	1:F:690:GLU:OE1	2.42	0.52
1:H:247:TRP:HD1	1:H:679:VAL:HG23	1.73	0.52
1:J:690:GLU:OE1	1:K:296:ARG:NH2	2.42	0.52
1:K:252:TYR:OH	1:K:374:ILE:O	2.27	0.52
1:K:430:GLN:HE22	1:l:353:PRO:HB3	1.75	0.52
1:N:690:GLU:OE1	1:O:296:ARG:NH2	2.42	0.52
1:R:497:ASN:HD21	1:U:590:GLN:HG2	1.73	0.52
1:X:355:VAL:H	1:X:646:GLN:HE22	1.57	0.52
1:X:554:ASP:OD1	1:5:462:LYS:NZ	2.32	0.52
1:Z:355:VAL:H	1:Z:646:GLN:HE22	1.57	0.52
1:1:415:TYR:OH	1:1:642:HIS:O	2.23	0.52
1:c:247:TRP:HD1	1:c:679:VAL:HG23	1.72	0.52
1:g:252:TYR:OH	1:g:374:ILE:O	2.27	0.52
1:j:553:VAL:HB	1:j:557:LYS:HE2	1.92	0.52
1:n:296:ARG:NH2	1:y:690:GLU:OE1	2.42	0.52
1:v:296:ARG:NH2	1:x:690:GLU:OE1	2.42	0.52
1:v:690:GLU:OE1	1:x:296:ARG:NH2	2.42	0.52
1:w:415:TYR:OH	1:w:642:HIS:O	2.23	0.52
1:8:355:VAL:H	1:8:646:GLN:HE22	1.57	0.52
1:D:252:TYR:OH	1:D:374:ILE:O	2.27	0.52
1:E:690:GLU:OE1	1:P:296:ARG:NH2	2.42	0.52
1:F:355:VAL:H	1:F:646:GLN:HE22	1.57	0.52
1:J:553:VAL:HB	1:J:557:LYS:HE2	1.92	0.52
1:O:676:THR:HG21	1:P:655:PRO:HD2	1.90	0.52
1:P:553:VAL:HB	1:P:557:LYS:HE2	1.92	0.52
1:T:252:TYR:OH	1:T:374:ILE:O	2.27	0.52
1:T:655:PRO:HD2	1:c:676:THR:HG21	1.90	0.52
1:U:527:HIS:HE1	1:U:562:ASN:HD22	1.55	0.52
1:V:553:VAL:HB	1:V:557:LYS:HE2	1.92	0.52
1:V:655:PRO:HD2	1:W:676:THR:HG21	1.90	0.52
1:1:296:ARG:NH2	1:w:690:GLU:OE1	2.42	0.52
1:1:690:GLU:OE1	1:w:296:ARG:NH2	2.42	0.52
1:2:553:VAL:HB	1:2:557:LYS:HE2	1.92	0.52
1:3:262:ASN:O	1:3:267:GLY:N	2.39	0.52
1:3:497:ASN:HD21	1:j:590:GLN:HG2	1.74	0.52
1:a:257:TYR:O	1:e:719:GLY:HA2	2.09	0.52
1:a:497:ASN:HD21	1:b:590:GLN:HG2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:553:VAL:HB	1:a:557:LYS:HE2	1.92	0.52
1:c:690:GLU:OE1	1:f:296:ARG:NH2	2.42	0.52
1:d:553:VAL:HB	1:d:557:LYS:HE2	1.92	0.52
1:d:655:PRO:HD2	1:f:676:THR:HG21	1.90	0.52
1:g:676:THR:HG21	1:m:655:PRO:HD2	1.90	0.52
1:h:503:TRP:HB2	2:h:801:GAL:H2	1.89	0.52
1:k:690:GLU:OE1	1:r:296:ARG:NH2	2.42	0.52
1:l:553:VAL:HB	1:l:557:LYS:HE2	1.92	0.52
1:s:355:VAL:H	1:s:646:GLN:HE22	1.57	0.52
1:v:553:VAL:HB	1:v:557:LYS:HE2	1.92	0.52
1:A:262:ASN:O	1:A:267:GLY:N	2.39	0.52
1:F:497:ASN:HD21	1:Q:590:GLN:HG2	1.74	0.52
1:G:296:ARG:NH2	1:H:690:GLU:OE1	2.42	0.52
1:H:590:GLN:HG2	1:W:497:ASN:HD21	1.73	0.52
1:Q:355:VAL:H	1:Q:646:GLN:HE22	1.57	0.52
1:T:676:THR:HG21	1:U:655:PRO:HD2	1.90	0.52
1:U:553:VAL:HB	1:U:557:LYS:HE2	1.92	0.52
1:V:590:GLN:HG2	1:5:497:ASN:HD21	1.74	0.52
1:Z:553:VAL:HB	1:Z:557:LYS:HE2	1.92	0.52
1:6:553:VAL:HB	1:6:557:LYS:HE2	1.92	0.52
1:b:676:THR:HG21	1:c:655:PRO:HD2	1.90	0.52
1:d:296:ARG:NH2	1:q:690:GLU:OE1	2.42	0.52
1:e:252:TYR:OH	1:e:374:ILE:O	2.27	0.52
1:i:247:TRP:HD1	1:i:679:VAL:HG23	1.72	0.52
1:i:355:VAL:H	1:i:646:GLN:HE22	1.57	0.52
1:t:262:ASN:O	1:t:267:GLY:N	2.39	0.52
1:y:247:TRP:HD1	1:y:679:VAL:HG23	1.73	0.52
1:G:553:VAL:HB	1:G:557:LYS:HE2	1.92	0.52
1:L:553:VAL:HB	1:L:557:LYS:HE2	1.92	0.52
1:N:247:TRP:HD1	1:N:679:VAL:HG23	1.72	0.52
1:2:252:TYR:OH	1:2:374:ILE:O	2.27	0.52
1:4:503:TRP:HB2	2:4:801:GAL:H2	1.89	0.52
1:4:553:VAL:HB	1:4:557:LYS:HE2	1.92	0.52
1:6:247:TRP:HD1	1:6:679:VAL:HG23	1.72	0.52
1:6:252:TYR:OH	1:6:374:ILE:O	2.27	0.52
1:a:371:VAL:HG11	1:u:655:PRO:HG3	1.92	0.52
1:g:296:ARG:NH2	1:l:690:GLU:OE1	2.42	0.52
1:j:655:PRO:HD2	1:z:676:THR:HG21	1.90	0.52
1:m:553:VAL:HB	1:m:557:LYS:HE2	1.92	0.52
1:n:554:ASP:OD1	1:p:462:LYS:NZ	2.32	0.52
1:o:296:ARG:NH2	1:u:690:GLU:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:252:TYR:OH	1:p:374:ILE:O	2.27	0.52
1:p:262:ASN:O	1:p:267:GLY:N	2.39	0.52
1:r:252:TYR:OH	1:r:374:ILE:O	2.27	0.52
1:y:353:PRO:HB3	1:7:430:GLN:HE22	1.75	0.52
1:y:590:GLN:HG2	1:z:497:ASN:HD21	1.73	0.52
1:7:690:GLU:OE1	1:8:296:ARG:NH2	2.42	0.52
1:8:553:VAL:HB	1:8:557:LYS:HE2	1.92	0.52
1:A:690:GLU:OE1	1:F:296:ARG:NH2	2.42	0.52
1:B:690:GLU:OE1	1:I:296:ARG:NH2	2.42	0.52
1:E:415:TYR:OH	1:E:642:HIS:O	2.23	0.52
1:E:590:GLN:HG2	1:Q:497:ASN:HD21	1.74	0.52
1:H:353:PRO:HB3	1:Y:430:GLN:HE22	1.75	0.52
1:K:262:ASN:O	1:K:267:GLY:N	2.39	0.52
1:M:676:THR:HG21	1:N:655:PRO:HD2	1.90	0.52
1:O:553:VAL:HB	1:O:557:LYS:HE2	1.92	0.52
1:P:262:ASN:O	1:P:267:GLY:N	2.39	0.52
1:S:690:GLU:OE1	1:T:296:ARG:NH2	2.42	0.52
1:V:355:VAL:H	1:V:646:GLN:HE22	1.57	0.52
1:Y:690:GLU:OE1	1:Z:296:ARG:NH2	2.42	0.52
1:2:247:TRP:HD1	1:2:679:VAL:HG23	1.72	0.52
1:3:475:GLY:HA2	1:i:519:ASN:HB3	1.91	0.52
1:6:519:ASN:HB3	1:a:475:GLY:HA2	1.91	0.52
1:d:462:LYS:NZ	1:e:554:ASP:OD1	2.32	0.52
1:f:553:VAL:HB	1:f:557:LYS:HE2	1.92	0.52
1:h:553:VAL:HB	1:h:557:LYS:HE2	1.92	0.52
1:n:553:VAL:HB	1:n:557:LYS:HE2	1.92	0.52
1:p:296:ARG:NH2	1:s:690:GLU:OE1	2.42	0.52
1:q:415:TYR:OH	1:q:642:HIS:O	2.23	0.52
1:t:553:VAL:HB	1:t:557:LYS:HE2	1.92	0.52
1:x:262:ASN:O	1:x:267:GLY:N	2.39	0.52
1:A:252:TYR:OH	1:A:374:ILE:O	2.27	0.52
1:G:430:GLN:HE22	1:I:353:PRO:HB3	1.75	0.52
1:I:553:VAL:HB	1:I:557:LYS:HE2	1.92	0.52
1:Q:252:TYR:OH	1:Q:374:ILE:O	2.27	0.52
1:Q:553:VAL:HB	1:Q:557:LYS:HE2	1.92	0.52
1:U:319:ASN:ND2	1:5:404:MET:SD	2.83	0.52
1:X:247:TRP:HD1	1:X:679:VAL:HG23	1.72	0.52
1:X:519:ASN:HB3	1:5:475:GLY:HA2	1.91	0.52
1:2:296:ARG:NH2	1:3:690:GLU:OE1	2.42	0.52
1:3:404:MET:SD	1:m:319:ASN:ND2	2.83	0.52
1:3:553:VAL:HB	1:3:557:LYS:HE2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:553:VAL:HB	1:5:557:LYS:HE2	1.92	0.52
1:d:262:ASN:O	1:d:267:GLY:N	2.39	0.52
1:d:719:GLY:HA2	1:r:257:TYR:O	2.10	0.52
1:j:355:VAL:H	1:j:646:GLN:HE22	1.57	0.52
1:n:430:GLN:HE22	1:o:353:PRO:HB3	1.75	0.52
1:o:553:VAL:HB	1:o:557:LYS:HE2	1.92	0.52
1:o:655:PRO:HD2	1:y:676:THR:HG21	1.90	0.52
1:o:690:GLU:OE1	1:u:296:ARG:NH2	2.42	0.52
1:r:553:VAL:HB	1:r:557:LYS:HE2	1.92	0.52
1:u:475:GLY:HA2	1:v:519:ASN:HB3	1.92	0.52
1:B:430:GLN:HE22	1:J:353:PRO:HB3	1.75	0.52
1:B:475:GLY:HA2	1:J:519:ASN:HB3	1.92	0.52
1:H:655:PRO:HG3	1:Z:371:VAL:HG11	1.92	0.52
1:H:676:THR:HG21	1:I:655:PRO:HD2	1.90	0.52
1:L:355:VAL:H	1:L:646:GLN:HE22	1.57	0.52
1:N:415:TYR:OH	1:N:642:HIS:O	2.23	0.52
1:f:655:PRO:HG3	1:h:371:VAL:HG11	1.92	0.52
1:k:719:GLY:HA2	1:s:257:TYR:O	2.10	0.52
1:p:355:VAL:H	1:p:646:GLN:HE22	1.57	0.52
1:t:355:VAL:H	1:t:646:GLN:HE22	1.57	0.52
1:u:415:TYR:OH	1:u:642:HIS:O	2.23	0.52
1:u:430:GLN:HE22	1:v:353:PRO:HB3	1.75	0.52
1:y:655:PRO:HG3	1:8:371:VAL:HG11	1.92	0.52
1:A:355:VAL:H	1:A:646:GLN:HE22	1.57	0.52
1:B:296:ARG:NH2	1:I:690:GLU:OE1	2.42	0.52
1:F:257:TYR:O	1:R:719:GLY:HA2	2.10	0.52
1:K:553:VAL:HB	1:K:557:LYS:HE2	1.92	0.52
1:M:519:ASN:HB3	1:2:475:GLY:HA2	1.91	0.52
1:O:655:PRO:HG3	1:4:371:VAL:HG11	1.92	0.52
1:P:355:VAL:H	1:P:646:GLN:HE22	1.57	0.52
1:P:719:GLY:HA2	1:Q:257:TYR:O	2.10	0.52
1:S:719:GLY:HA2	1:4:257:TYR:O	2.10	0.52
1:U:296:ARG:NH2	1:V:690:GLU:OE1	2.42	0.52
1:U:719:GLY:HA2	1:5:257:TYR:O	2.10	0.52
1:W:553:VAL:HB	1:W:557:LYS:HE2	1.92	0.52
1:X:404:MET:SD	1:6:319:ASN:ND2	2.83	0.52
1:3:257:TYR:O	1:m:719:GLY:HA2	2.10	0.52
1:5:371:VAL:HG11	1:b:655:PRO:HG3	1.92	0.52
1:5:690:GLU:OE1	1:6:296:ARG:NH2	2.42	0.52
1:6:475:GLY:HA2	1:b:519:ASN:HB3	1.91	0.52
1:c:415:TYR:OH	1:c:642:HIS:O	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:719:GLY:HA2	1:7:257:TYR:O	2.10	0.52
1:l:355:VAL:H	1:l:646:GLN:HE22	1.57	0.52
1:r:462:LYS:NZ	1:s:554:ASP:OD1	2.32	0.52
1:t:257:TYR:O	1:x:719:GLY:HA2	2.10	0.52
1:x:553:VAL:HB	1:x:557:LYS:HE2	1.92	0.52
1:y:355:VAL:H	1:y:646:GLN:HE22	1.57	0.52
1:z:553:VAL:HB	1:z:557:LYS:HE2	1.92	0.52
1:F:319:ASN:ND2	1:G:404:MET:SD	2.83	0.52
1:F:719:GLY:HA2	1:G:257:TYR:O	2.10	0.52
1:H:355:VAL:H	1:H:646:GLN:HE22	1.57	0.52
1:H:475:GLY:HA2	1:W:519:ASN:HB3	1.92	0.52
1:K:257:TYR:O	1:7:719:GLY:HA2	2.10	0.52
1:K:719:GLY:HA2	1:L:257:TYR:O	2.10	0.52
1:M:655:PRO:HG3	1:3:371:VAL:HG11	1.92	0.52
1:R:553:VAL:HB	1:R:557:LYS:HE2	1.92	0.52
1:S:355:VAL:H	1:S:646:GLN:HE22	1.57	0.52
1:V:257:TYR:O	1:W:719:GLY:HA2	2.10	0.52
1:X:371:VAL:HG11	1:Y:655:PRO:HG3	1.92	0.52
1:X:655:PRO:HG3	1:6:371:VAL:HG11	1.92	0.52
1:Y:719:GLY:HA2	1:x:257:TYR:O	2.10	0.52
1:2:319:ASN:ND2	1:i:404:MET:SD	2.83	0.52
1:2:371:VAL:HG11	1:i:655:PRO:HG3	1.92	0.52
1:a:404:MET:SD	1:e:319:ASN:ND2	2.83	0.52
1:b:296:ARG:NH2	1:e:690:GLU:OE1	2.42	0.52
1:b:371:VAL:HG11	1:c:655:PRO:HG3	1.92	0.52
1:d:355:VAL:H	1:d:646:GLN:HE22	1.57	0.52
1:h:257:TYR:O	1:l:719:GLY:HA2	2.10	0.52
1:j:690:GLU:OE1	1:m:296:ARG:NH2	2.42	0.52
1:m:225:SER:HG	1:m:319:ASN:H	1.58	0.52
1:n:404:MET:SD	1:s:319:ASN:ND2	2.83	0.52
1:v:719:GLY:HA2	1:w:257:TYR:O	2.10	0.52
1:y:475:GLY:HA2	1:z:519:ASN:HB3	1.92	0.52
1:A:353:PRO:HB3	1:I:430:GLN:HE22	1.75	0.51
1:C:257:TYR:O	1:D:719:GLY:HA2	2.10	0.51
1:D:690:GLU:OE1	1:M:296:ARG:NH2	2.42	0.51
1:E:475:GLY:HA2	1:Q:519:ASN:HB3	1.92	0.51
1:J:719:GLY:HA2	1:1:257:TYR:O	2.10	0.51
1:M:252:TYR:OH	1:M:374:ILE:O	2.27	0.51
1:M:404:MET:SD	1:3:319:ASN:ND2	2.83	0.51
1:O:519:ASN:HB3	1:h:475:GLY:HA2	1.93	0.51
1:R:519:ASN:HB3	1:U:475:GLY:HA2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:655:PRO:HG3	1:c:371:VAL:HG11	1.92	0.51
1:V:519:ASN:HB3	1:X:475:GLY:HA2	1.92	0.51
1:V:655:PRO:HG3	1:W:371:VAL:HG11	1.93	0.51
1:X:719:GLY:HA2	1:Y:257:TYR:O	2.10	0.51
1:4:475:GLY:HA2	1:f:519:ASN:HB3	1.93	0.51
1:d:319:ASN:ND2	1:r:404:MET:SD	2.83	0.51
1:f:257:TYR:O	1:h:719:GLY:HA2	2.10	0.51
1:i:371:VAL:HG11	1:7:655:PRO:HG3	1.92	0.51
1:i:475:GLY:HA2	1:j:519:ASN:HB3	1.92	0.51
1:j:257:TYR:O	1:z:719:GLY:HA2	2.10	0.51
1:n:257:TYR:O	1:s:719:GLY:HA2	2.10	0.51
1:n:719:GLY:HA2	1:z:257:TYR:O	2.10	0.51
1:q:554:ASP:OD1	1:s:462:LYS:NZ	2.32	0.51
1:B:404:MET:SD	1:C:319:ASN:ND2	2.83	0.51
1:B:415:TYR:OH	1:B:642:HIS:O	2.23	0.51
1:C:404:MET:SD	1:D:319:ASN:ND2	2.83	0.51
1:C:590:GLN:HG2	1:2:497:ASN:HD21	1.74	0.51
1:D:322:VAL:HG11	1:D:673:GLN:HE21	1.76	0.51
1:D:553:VAL:HB	1:D:557:LYS:HE2	1.92	0.51
1:F:404:MET:SD	1:R:319:ASN:ND2	2.83	0.51
1:G:719:GLY:HA2	1:W:257:TYR:O	2.10	0.51
1:H:404:MET:SD	1:Z:319:ASN:ND2	2.83	0.51
1:H:553:VAL:HB	1:H:557:LYS:HE2	1.92	0.51
1:J:319:ASN:ND2	1:1:404:MET:SD	2.84	0.51
1:L:484:TYR:HE2	1:L:507:SER:HB3	1.76	0.51
1:M:371:VAL:HG11	1:N:655:PRO:HG3	1.92	0.51
1:N:371:VAL:HG11	1:g:655:PRO:HG3	1.92	0.51
1:N:553:VAL:HB	1:N:557:LYS:HE2	1.92	0.51
1:O:257:TYR:O	1:4:719:GLY:HA2	2.10	0.51
1:S:225:SER:HG	1:S:319:ASN:H	1.58	0.51
1:S:475:GLY:HA2	1:U:519:ASN:HB3	1.92	0.51
1:T:430:GLN:HE22	1:4:353:PRO:HB3	1.75	0.51
1:T:475:GLY:HA2	1:4:519:ASN:HB3	1.93	0.51
1:V:322:VAL:HG11	1:V:673:GLN:HE21	1.76	0.51
1:Y:319:ASN:ND2	1:x:404:MET:SD	2.83	0.51
1:Z:404:MET:SD	1:1:319:ASN:ND2	2.83	0.51
1:1:430:GLN:HE22	1:8:353:PRO:HB3	1.75	0.51
1:5:319:ASN:ND2	1:b:404:MET:SD	2.83	0.51
1:6:554:ASP:OD1	1:a:462:LYS:NZ	2.33	0.51
1:a:519:ASN:HB3	1:b:475:GLY:HA2	1.91	0.51
1:a:690:GLU:OE1	1:t:296:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:553:VAL:HB	1:c:557:LYS:HE2	1.92	0.51
1:d:257:TYR:O	1:f:719:GLY:HA2	2.10	0.51
1:e:322:VAL:HG11	1:e:673:GLN:HE21	1.76	0.51
1:e:553:VAL:HB	1:e:557:LYS:HE2	1.92	0.51
1:g:430:GLN:HE22	1:h:353:PRO:HB3	1.75	0.51
1:j:655:PRO:HG3	1:z:371:VAL:HG11	1.93	0.51
1:k:319:ASN:ND2	1:s:404:MET:SD	2.83	0.51
1:o:430:GLN:HE22	1:p:353:PRO:HB3	1.75	0.51
1:p:484:TYR:HE2	1:p:507:SER:HB3	1.76	0.51
1:t:247:TRP:HD1	1:t:679:VAL:HG23	1.72	0.51
1:t:462:LYS:NZ	1:u:554:ASP:OD1	2.32	0.51
1:t:484:TYR:HE2	1:t:507:SER:HB3	1.76	0.51
1:u:262:ASN:O	1:u:267:GLY:N	2.39	0.51
1:w:319:ASN:ND2	1:8:404:MET:SD	2.83	0.51
1:y:404:MET:SD	1:8:319:ASN:ND2	2.83	0.51
1:y:553:VAL:HB	1:y:557:LYS:HE2	1.92	0.51
1:7:553:VAL:HB	1:7:557:LYS:HE2	1.92	0.51
1:A:225:SER:HG	1:A:319:ASN:H	1.58	0.51
1:A:484:TYR:HE2	1:A:507:SER:HB3	1.76	0.51
1:B:519:ASN:HB3	1:L:475:GLY:HA2	1.92	0.51
1:B:554:ASP:OD1	1:L:462:LYS:NZ	2.32	0.51
1:B:655:PRO:HG3	1:C:371:VAL:HG11	1.93	0.51
1:D:655:PRO:HG3	1:E:371:VAL:HG11	1.92	0.51
1:E:519:ASN:HB3	1:F:475:GLY:HA2	1.92	0.51
1:H:225:SER:HG	1:H:319:ASN:H	1.58	0.51
1:I:319:ASN:ND2	1:J:404:MET:SD	2.83	0.51
1:K:319:ASN:ND2	1:L:404:MET:SD	2.83	0.51
1:K:371:VAL:HG11	1:L:655:PRO:HG3	1.93	0.51
1:K:404:MET:SD	1:7:319:ASN:ND2	2.84	0.51
1:L:247:TRP:HD1	1:L:679:VAL:HG23	1.72	0.51
1:L:322:VAL:HG11	1:L:673:GLN:HE21	1.76	0.51
1:M:497:ASN:HD21	1:2:590:GLN:HG2	1.75	0.51
1:N:252:TYR:OH	1:N:374:ILE:O	2.27	0.51
1:O:319:ASN:ND2	1:P:404:MET:SD	2.83	0.51
1:O:719:GLY:HA2	1:P:257:TYR:O	2.10	0.51
1:Q:719:GLY:HA2	1:S:257:TYR:O	2.09	0.51
1:R:257:TYR:O	1:V:719:GLY:HA2	2.10	0.51
1:X:319:ASN:ND2	1:Y:404:MET:SD	2.84	0.51
1:Y:355:VAL:H	1:Y:646:GLN:HE22	1.57	0.51
1:Y:553:VAL:HB	1:Y:557:LYS:HE2	1.92	0.51
1:Z:257:TYR:O	1:1:719:GLY:HA2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:252:TYR:OH	1:1:374:ILE:O	2.27	0.51
1:3:590:GLN:HG2	1:i:497:ASN:HD21	1.75	0.51
1:6:322:VAL:HG11	1:6:673:GLN:HE21	1.76	0.51
1:c:252:TYR:OH	1:c:374:ILE:O	2.27	0.51
1:d:430:GLN:HE22	1:e:353:PRO:HB3	1.75	0.51
1:g:475:GLY:HA2	1:h:519:ASN:HB3	1.93	0.51
1:j:322:VAL:HG11	1:j:673:GLN:HE21	1.76	0.51
1:j:719:GLY:HA2	1:k:257:TYR:O	2.10	0.51
1:k:353:PRO:HB3	1:m:430:GLN:HE22	1.75	0.51
1:k:519:ASN:HB3	1:m:475:GLY:HA2	1.92	0.51
1:l:225:SER:HG	1:l:319:ASN:H	1.58	0.51
1:l:322:VAL:HG11	1:l:673:GLN:HE21	1.76	0.51
1:l:475:GLY:HA2	1:m:519:ASN:HB3	1.92	0.51
1:l:655:PRO:HG3	1:r:371:VAL:HG11	1.93	0.51
1:o:319:ASN:ND2	1:v:404:MET:SD	2.83	0.51
1:q:475:GLY:HA2	1:r:519:ASN:HB3	1.92	0.51
1:q:484:TYR:HE2	1:q:507:SER:HB3	1.76	0.51
1:t:404:MET:SD	1:x:319:ASN:ND2	2.83	0.51
1:v:319:ASN:ND2	1:w:404:MET:SD	2.84	0.51
1:v:446:TYR:CD1	1:v:473:VAL:HG11	2.46	0.51
1:7:484:TYR:HE2	1:7:507:SER:HB3	1.76	0.51
1:A:404:MET:SD	1:B:319:ASN:ND2	2.84	0.51
1:B:322:VAL:HG11	1:B:673:GLN:HE21	1.76	0.51
1:C:247:TRP:HD1	1:C:679:VAL:HG23	1.72	0.51
1:C:430:GLN:HE22	1:2:353:PRO:HB3	1.75	0.51
1:D:225:SER:HG	1:D:319:ASN:H	1.58	0.51
1:D:353:PRO:HB3	1:P:430:GLN:HE22	1.75	0.51
1:D:404:MET:SD	1:E:319:ASN:ND2	2.83	0.51
1:E:484:TYR:HE2	1:E:507:SER:HB3	1.76	0.51
1:F:371:VAL:HG11	1:G:655:PRO:HG3	1.92	0.51
1:F:519:ASN:HB3	1:Q:475:GLY:HA2	1.92	0.51
1:J:446:TYR:CD1	1:J:473:VAL:HG11	2.46	0.51
1:K:353:PRO:HB3	1:8:430:GLN:HE22	1.75	0.51
1:M:719:GLY:HA2	1:N:257:TYR:O	2.10	0.51
1:O:404:MET:SD	1:4:319:ASN:ND2	2.83	0.51
1:P:319:ASN:ND2	1:Q:404:MET:SD	2.84	0.51
1:Q:371:VAL:HG11	1:S:655:PRO:HG3	1.93	0.51
1:S:322:VAL:HG11	1:S:673:GLN:HE21	1.76	0.51
1:T:319:ASN:ND2	1:U:404:MET:SD	2.83	0.51
1:T:484:TYR:HE2	1:T:507:SER:HB3	1.76	0.51
1:U:322:VAL:HG11	1:U:673:GLN:HE21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:430:GLN:HE22	1:Y:353:PRO:HB3	1.75	0.51
1:W:446:TYR:CD1	1:W:473:VAL:HG11	2.46	0.51
1:Y:484:TYR:HE2	1:Y:507:SER:HB3	1.76	0.51
1:Z:353:PRO:HB3	1:w:430:GLN:HE22	1.75	0.51
1:2:322:VAL:HG11	1:2:673:GLN:HE21	1.76	0.51
1:3:430:GLN:HE22	1:i:353:PRO:HB3	1.76	0.51
1:3:484:TYR:HE2	1:3:507:SER:HB3	1.76	0.51
1:5:484:TYR:HE2	1:5:507:SER:HB3	1.76	0.51
1:6:404:MET:SD	1:t:319:ASN:ND2	2.83	0.51
1:a:296:ARG:NH2	1:t:690:GLU:OE1	2.42	0.51
1:e:355:VAL:H	1:e:646:GLN:HE22	1.57	0.51
1:e:655:PRO:HG3	1:q:371:VAL:HG11	1.92	0.51
1:f:404:MET:SD	1:h:319:ASN:ND2	2.83	0.51
1:g:319:ASN:ND2	1:m:404:MET:SD	2.83	0.51
1:g:484:TYR:HE2	1:g:507:SER:HB3	1.76	0.51
1:i:319:ASN:ND2	1:7:404:MET:SD	2.84	0.51
1:k:553:VAL:HB	1:k:557:LYS:HE2	1.92	0.51
1:l:247:TRP:HD1	1:l:679:VAL:HG23	1.72	0.51
1:n:319:ASN:ND2	1:z:404:MET:SD	2.83	0.51
1:n:655:PRO:HG3	1:s:371:VAL:HG11	1.92	0.51
1:q:353:PRO:HB3	1:s:430:GLN:HE22	1.75	0.51
1:q:519:ASN:HB3	1:s:475:GLY:HA2	1.92	0.51
1:q:553:VAL:HB	1:q:557:LYS:HE2	1.92	0.51
1:r:430:GLN:HE22	1:s:353:PRO:HB3	1.75	0.51
1:t:322:VAL:HG11	1:t:673:GLN:HE21	1.76	0.51
1:t:475:GLY:HA2	1:u:519:ASN:HB3	1.92	0.51
1:t:655:PRO:HG3	1:x:371:VAL:HG11	1.93	0.51
1:u:322:VAL:HG11	1:u:673:GLN:HE21	1.76	0.51
1:w:252:TYR:OH	1:w:374:ILE:O	2.27	0.51
1:w:719:GLY:HA2	1:8:257:TYR:O	2.10	0.51
1:z:446:TYR:CD1	1:z:473:VAL:HG11	2.46	0.51
1:7:355:VAL:H	1:7:646:GLN:HE22	1.57	0.51
1:A:319:ASN:ND2	1:E:404:MET:SD	2.83	0.51
1:A:322:VAL:HG11	1:A:673:GLN:HE21	1.76	0.51
1:B:262:ASN:O	1:B:267:GLY:N	2.39	0.51
1:C:225:SER:HG	1:C:319:ASN:H	1.59	0.51
1:C:353:PRO:HB3	1:M:430:GLN:HE22	1.75	0.51
1:E:430:GLN:HE22	1:Q:353:PRO:HB3	1.75	0.51
1:E:553:VAL:HB	1:E:557:LYS:HE2	1.92	0.51
1:G:319:ASN:ND2	1:W:404:MET:SD	2.83	0.51
1:H:319:ASN:ND2	1:I:404:MET:SD	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:519:ASN:HB3	1:Y:475:GLY:HA2	1.93	0.51
1:L:319:ASN:ND2	1:2:404:MET:SD	2.83	0.51
1:N:475:GLY:HA2	1:P:519:ASN:HB3	1.93	0.51
1:Q:225:SER:HG	1:Q:319:ASN:H	1.59	0.51
1:Q:319:ASN:ND2	1:S:404:MET:SD	2.83	0.51
1:Q:322:VAL:HG11	1:Q:673:GLN:HE21	1.76	0.51
1:R:353:PRO:HB3	1:U:430:GLN:HE22	1.75	0.51
1:S:371:VAL:HG11	1:4:655:PRO:HG3	1.93	0.51
1:T:257:TYR:O	1:c:719:GLY:HA2	2.10	0.51
1:X:322:VAL:HG11	1:X:673:GLN:HE21	1.76	0.51
1:X:353:PRO:HB3	1:5:430:GLN:HE22	1.76	0.51
1:X:446:TYR:CD1	1:X:473:VAL:HG11	2.46	0.51
1:X:497:ASN:HD21	1:5:590:GLN:HG2	1.75	0.51
1:Y:322:VAL:HG11	1:Y:673:GLN:HE21	1.76	0.51
1:Z:430:GLN:HE22	1:x:353:PRO:HB3	1.75	0.51
1:6:590:GLN:HG2	1:b:497:ASN:HD21	1.75	0.51
1:b:719:GLY:HA2	1:c:257:TYR:O	2.10	0.51
1:c:475:GLY:HA2	1:d:519:ASN:HB3	1.93	0.51
1:d:404:MET:SD	1:f:319:ASN:ND2	2.83	0.51
1:e:404:MET:SD	1:q:319:ASN:ND2	2.83	0.51
1:i:446:TYR:CD1	1:i:473:VAL:HG11	2.46	0.51
1:m:322:VAL:HG11	1:m:673:GLN:HE21	1.76	0.51
1:n:262:ASN:O	1:n:267:GLY:N	2.39	0.51
1:p:322:VAL:HG11	1:p:673:GLN:HE21	1.76	0.51
1:p:404:MET:SD	1:u:319:ASN:ND2	2.84	0.51
1:r:322:VAL:HG11	1:r:673:GLN:HE21	1.76	0.51
1:y:519:ASN:HB3	1:7:475:GLY:HA2	1.93	0.51
1:z:430:GLN:HE22	1:7:353:PRO:HB3	1.75	0.51
1:7:322:VAL:HG11	1:7:673:GLN:HE21	1.76	0.51
1:A:247:TRP:HD1	1:A:679:VAL:HG23	1.72	0.51
1:B:257:TYR:O	1:C:719:GLY:HA2	2.10	0.51
1:E:353:PRO:HB3	1:F:430:GLN:HE22	1.75	0.51
1:F:322:VAL:HG11	1:F:673:GLN:HE21	1.76	0.51
1:F:353:PRO:HB3	1:Q:430:GLN:HE22	1.75	0.51
1:J:355:VAL:H	1:J:646:GLN:HE22	1.57	0.51
1:K:322:VAL:HG11	1:K:673:GLN:HE21	1.76	0.51
1:P:371:VAL:HG11	1:Q:655:PRO:HG3	1.93	0.51
1:S:247:TRP:HD1	1:S:679:VAL:HG23	1.72	0.51
1:T:353:PRO:HB3	1:f:430:GLN:HE22	1.75	0.51
1:T:404:MET:SD	1:c:319:ASN:ND2	2.84	0.51
1:Z:519:ASN:HB3	1:w:475:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:475:GLY:HA2	1:8:519:ASN:HB3	1.93	0.51
1:6:355:VAL:H	1:6:646:GLN:HE22	1.57	0.51
1:c:296:ARG:NH2	1:f:690:GLU:OE1	2.42	0.51
1:c:322:VAL:HG11	1:c:673:GLN:HE21	1.76	0.51
1:h:322:VAL:HG11	1:h:673:GLN:HE21	1.76	0.51
1:h:655:PRO:HG3	1:l:371:VAL:HG11	1.93	0.51
1:i:322:VAL:HG11	1:i:673:GLN:HE21	1.76	0.51
1:n:475:GLY:HA2	1:o:519:ASN:HB3	1.92	0.51
1:o:404:MET:SD	1:y:319:ASN:ND2	2.84	0.51
1:p:319:ASN:ND2	1:q:404:MET:SD	2.83	0.51
1:s:322:VAL:HG11	1:s:673:GLN:HE21	1.76	0.51
1:8:322:VAL:HG11	1:8:673:GLN:HE21	1.76	0.51
1:A:446:TYR:CD1	1:A:473:VAL:HG11	2.46	0.51
1:A:553:VAL:HB	1:A:557:LYS:HE2	1.92	0.51
1:C:484:TYR:HE2	1:C:507:SER:HB3	1.76	0.51
1:D:519:ASN:HB3	1:P:475:GLY:HA2	1.92	0.51
1:E:554:ASP:OD1	1:F:462:LYS:NZ	2.32	0.51
1:F:446:TYR:CD1	1:F:473:VAL:HG11	2.46	0.51
1:G:475:GLY:HA2	1:I:519:ASN:HB3	1.92	0.51
1:I:322:VAL:HG11	1:I:673:GLN:HE21	1.76	0.51
1:M:322:VAL:HG11	1:M:673:GLN:HE21	1.76	0.51
1:N:296:ARG:NH2	1:O:690:GLU:OE1	2.42	0.51
1:N:322:VAL:HG11	1:N:673:GLN:HE21	1.76	0.51
1:N:719:GLY:HA2	1:g:257:TYR:O	2.10	0.51
1:O:322:VAL:HG11	1:O:673:GLN:HE21	1.76	0.51
1:O:353:PRO:HB3	1:h:430:GLN:HE22	1.75	0.51
1:O:430:GLN:HE22	1:g:353:PRO:HB3	1.75	0.51
1:R:484:TYR:HE2	1:R:507:SER:HB3	1.76	0.51
1:U:446:TYR:CD1	1:U:473:VAL:HG11	2.46	0.51
1:V:446:TYR:CD1	1:V:473:VAL:HG11	2.46	0.51
1:W:475:GLY:HA2	1:Y:519:ASN:HB3	1.92	0.51
1:X:225:SER:HG	1:X:319:ASN:H	1.59	0.51
1:Z:322:VAL:HG11	1:Z:673:GLN:HE21	1.76	0.51
1:1:446:TYR:CD1	1:1:473:VAL:HG11	2.46	0.51
1:1:553:VAL:HB	1:1:557:LYS:HE2	1.92	0.51
1:4:322:VAL:HG11	1:4:673:GLN:HE21	1.76	0.51
1:6:257:TYR:O	1:t:719:GLY:HA2	2.10	0.51
1:b:322:VAL:HG11	1:b:673:GLN:HE21	1.76	0.51
1:d:371:VAL:HG11	1:r:655:PRO:HG3	1.93	0.51
1:d:475:GLY:HA2	1:e:519:ASN:HB3	1.92	0.51
1:f:484:TYR:HE2	1:f:507:SER:HB3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:225:SER:HG	1:i:319:ASN:H	1.59	0.51
1:j:446:TYR:CD1	1:j:473:VAL:HG11	2.46	0.51
1:k:484:TYR:HE2	1:k:507:SER:HB3	1.76	0.51
1:l:404:MET:SD	1:r:319:ASN:ND2	2.83	0.51
1:m:446:TYR:CD1	1:m:473:VAL:HG11	2.46	0.51
1:o:322:VAL:HG11	1:o:673:GLN:HE21	1.76	0.51
1:o:475:GLY:HA2	1:p:519:ASN:HB3	1.92	0.51
1:p:244:THR:HA	1:p:679:VAL:O	2.11	0.51
1:p:247:TRP:HD1	1:p:679:VAL:HG23	1.72	0.51
1:p:446:TYR:CD1	1:p:473:VAL:HG11	2.46	0.51
1:r:225:SER:HG	1:r:319:ASN:H	1.59	0.51
1:t:519:ASN:HB3	1:v:475:GLY:HA2	1.92	0.51
1:w:519:ASN:HB3	1:x:475:GLY:HA2	1.92	0.51
1:x:225:SER:HG	1:x:319:ASN:H	1.59	0.51
1:y:257:TYR:O	1:8:719:GLY:HA2	2.10	0.51
1:z:475:GLY:HA2	1:7:519:ASN:HB3	1.92	0.51
1:A:244:THR:HA	1:A:679:VAL:O	2.11	0.51
1:A:519:ASN:HB3	1:I:475:GLY:HA2	1.92	0.51
1:F:484:TYR:HE2	1:F:507:SER:HB3	1.76	0.51
1:G:262:ASN:O	1:G:267:GLY:N	2.39	0.51
1:J:244:THR:HA	1:J:679:VAL:O	2.11	0.51
1:J:247:TRP:HD1	1:J:679:VAL:HG23	1.72	0.51
1:K:475:GLY:HA2	1:1:519:ASN:HB3	1.93	0.51
1:N:319:ASN:ND2	1:g:404:MET:SD	2.84	0.51
1:O:462:LYS:NZ	1:g:554:ASP:OD1	2.32	0.51
1:O:484:TYR:HE2	1:O:507:SER:HB3	1.76	0.51
1:Q:484:TYR:HE2	1:Q:507:SER:HB3	1.76	0.51
1:W:484:TYR:HE2	1:W:507:SER:HB3	1.76	0.51
1:5:296:ARG:NH2	1:6:690:GLU:OE1	2.42	0.51
1:a:247:TRP:HD1	1:a:679:VAL:HG23	1.72	0.51
1:a:484:TYR:HE2	1:a:507:SER:HB3	1.76	0.51
1:f:322:VAL:HG11	1:f:673:GLN:HE21	1.76	0.51
1:i:430:GLN:HE22	1:j:353:PRO:HB3	1.75	0.51
1:j:319:ASN:ND2	1:k:404:MET:SD	2.83	0.51
1:k:322:VAL:HG11	1:k:673:GLN:HE21	1.76	0.51
1:k:446:TYR:CD1	1:k:473:VAL:HG11	2.46	0.51
1:n:355:VAL:H	1:n:646:GLN:HE22	1.57	0.51
1:n:590:GLN:HG2	1:o:497:ASN:HD21	1.74	0.51
1:p:257:TYR:O	1:u:719:GLY:HA2	2.10	0.51
1:p:553:VAL:HB	1:p:557:LYS:HE2	1.92	0.51
1:q:430:GLN:HE22	1:r:353:PRO:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:446:TYR:CD1	1:s:473:VAL:HG11	2.46	0.51
1:v:355:VAL:H	1:v:646:GLN:HE22	1.57	0.51
1:w:446:TYR:CD1	1:w:473:VAL:HG11	2.46	0.51
1:x:322:VAL:HG11	1:x:673:GLN:HE21	1.76	0.51
1:x:355:VAL:H	1:x:646:GLN:HE22	1.57	0.51
1:A:257:TYR:O	1:B:719:GLY:HA2	2.10	0.51
1:B:553:VAL:HB	1:B:557:LYS:HE2	1.92	0.51
1:C:475:GLY:HA2	1:2:519:ASN:HB3	1.92	0.51
1:G:355:VAL:H	1:G:646:GLN:HE22	1.57	0.51
1:G:371:VAL:HG11	1:W:655:PRO:HG3	1.92	0.51
1:H:244:THR:HA	1:H:679:VAL:O	2.11	0.51
1:H:257:TYR:O	1:Z:719:GLY:HA2	2.10	0.51
1:J:475:GLY:HA2	1:L:519:ASN:HB3	1.92	0.51
1:K:355:VAL:H	1:K:646:GLN:HE22	1.57	0.51
1:L:719:GLY:HA2	1:2:257:TYR:O	2.10	0.51
1:M:553:VAL:HB	1:M:557:LYS:HE2	1.92	0.51
1:R:404:MET:SD	1:V:319:ASN:ND2	2.83	0.51
1:R:446:TYR:CD1	1:R:473:VAL:HG11	2.46	0.51
1:S:484:TYR:HE2	1:S:507:SER:HB3	1.76	0.51
1:V:353:PRO:HB3	1:X:430:GLN:HE22	1.75	0.51
1:Z:446:TYR:CD1	1:Z:473:VAL:HG11	2.46	0.51
1:1:322:VAL:HG11	1:1:673:GLN:HE21	1.76	0.51
1:2:355:VAL:H	1:2:646:GLN:HE22	1.57	0.51
1:3:225:SER:HG	1:3:319:ASN:H	1.59	0.51
1:4:430:GLN:HE22	1:f:353:PRO:HB3	1.75	0.51
1:6:655:PRO:HG3	1:t:371:VAL:HG11	1.93	0.51
1:b:244:THR:HA	1:b:679:VAL:O	2.11	0.51
1:e:225:SER:HG	1:e:319:ASN:H	1.58	0.51
1:e:446:TYR:CD1	1:e:473:VAL:HG11	2.46	0.51
1:g:247:TRP:HD1	1:g:679:VAL:HG23	1.72	0.51
1:g:262:ASN:O	1:g:267:GLY:N	2.39	0.51
1:i:553:VAL:HB	1:i:557:LYS:HE2	1.92	0.51
1:j:404:MET:SD	1:z:319:ASN:ND2	2.83	0.51
1:l:484:TYR:HE2	1:l:507:SER:HB3	1.76	0.51
1:n:519:ASN:HB3	1:p:475:GLY:HA2	1.92	0.51
1:o:446:TYR:CD1	1:o:473:VAL:HG11	2.46	0.51
1:v:244:THR:HA	1:v:679:VAL:O	2.11	0.51
1:v:247:TRP:HD1	1:v:679:VAL:HG23	1.72	0.51
1:w:553:VAL:HB	1:w:557:LYS:HE2	1.92	0.51
1:y:244:THR:HA	1:y:679:VAL:O	2.11	0.51
1:z:484:TYR:HE2	1:z:507:SER:HB3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:446:TYR:CD1	1:8:473:VAL:HG11	2.46	0.51
1:C:296:ARG:NH2	1:L:690:GLU:OE1	2.42	0.51
1:C:446:TYR:CD1	1:C:473:VAL:HG11	2.46	0.51
1:C:519:ASN:HB3	1:M:475:GLY:HA2	1.92	0.51
1:D:446:TYR:CD1	1:D:473:VAL:HG11	2.46	0.51
1:D:484:TYR:HE2	1:D:507:SER:HB3	1.76	0.51
1:E:446:TYR:CD1	1:E:473:VAL:HG11	2.46	0.51
1:G:244:THR:HA	1:G:679:VAL:O	2.11	0.51
1:G:590:GLN:HG2	1:I:497:ASN:HD21	1.74	0.51
1:I:446:TYR:CD1	1:I:473:VAL:HG11	2.46	0.51
1:I:484:TYR:HE2	1:I:507:SER:HB3	1.76	0.51
1:K:415:TYR:OH	1:K:642:HIS:O	2.23	0.51
1:L:350:TYR:OH	1:L:643:PRO:O	2.25	0.51
1:L:371:VAL:HG11	1:2:655:PRO:HG3	1.93	0.51
1:M:244:THR:HA	1:M:679:VAL:O	2.11	0.51
1:M:355:VAL:H	1:M:646:GLN:HE22	1.57	0.51
1:N:225:SER:HG	1:N:319:ASN:H	1.59	0.51
1:N:430:GLN:HE22	1:P:353:PRO:HB3	1.75	0.51
1:R:322:VAL:HG11	1:R:673:GLN:HE21	1.76	0.51
1:T:262:ASN:O	1:T:267:GLY:N	2.39	0.51
1:T:446:TYR:CD1	1:T:473:VAL:HG11	2.46	0.51
1:T:554:ASP:OD1	1:f:462:LYS:NZ	2.32	0.51
1:T:719:GLY:HA2	1:U:257:TYR:O	2.10	0.51
1:U:225:SER:HG	1:U:319:ASN:H	1.58	0.51
1:V:244:THR:HA	1:V:679:VAL:O	2.11	0.51
1:V:404:MET:SD	1:W:319:ASN:ND2	2.83	0.51
1:X:553:VAL:HB	1:X:557:LYS:HE2	1.92	0.51
1:Y:446:TYR:CD1	1:Y:473:VAL:HG11	2.46	0.51
1:2:690:GLU:OE1	1:3:296:ARG:NH2	2.42	0.51
1:a:446:TYR:CD1	1:a:473:VAL:HG11	2.46	0.51
1:b:553:VAL:HB	1:b:557:LYS:HE2	1.92	0.51
1:f:355:VAL:H	1:f:646:GLN:HE22	1.57	0.51
1:g:719:GLY:HA2	1:m:257:TYR:O	2.10	0.51
1:j:244:THR:HA	1:j:679:VAL:O	2.11	0.51
1:k:225:SER:HG	1:k:319:ASN:H	1.59	0.51
1:l:257:TYR:O	1:r:719:GLY:HA2	2.10	0.51
1:l:430:GLN:HE22	1:m:353:PRO:HB3	1.75	0.51
1:n:244:THR:HA	1:n:679:VAL:O	2.11	0.51
1:n:322:VAL:HG11	1:n:673:GLN:HE21	1.76	0.51
1:n:371:VAL:HG11	1:z:655:PRO:HG3	1.92	0.51
1:o:484:TYR:HE2	1:o:507:SER:HB3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:371:VAL:HG11	1:q:655:PRO:HG3	1.92	0.51
1:s:484:TYR:HE2	1:s:507:SER:HB3	1.76	0.51
1:x:415:TYR:OH	1:x:642:HIS:O	2.23	0.51
1:A:475:GLY:HA2	1:G:519:ASN:HB3	1.93	0.50
1:A:719:GLY:HA2	1:E:257:TYR:O	2.10	0.50
1:E:225:SER:HG	1:E:319:ASN:H	1.59	0.50
1:F:655:PRO:HG3	1:R:371:VAL:HG11	1.93	0.50
1:G:322:VAL:HG11	1:G:673:GLN:HE21	1.76	0.50
1:H:371:VAL:HG11	1:I:655:PRO:HG3	1.93	0.50
1:M:484:TYR:HE2	1:M:507:SER:HB3	1.76	0.50
1:S:430:GLN:HE22	1:U:353:PRO:HB3	1.75	0.50
1:T:247:TRP:HD1	1:T:679:VAL:HG23	1.72	0.50
1:Z:484:TYR:HE2	1:Z:507:SER:HB3	1.76	0.50
1:6:353:PRO:HB3	1:a:430:GLN:HE22	1.76	0.50
1:a:353:PRO:HB3	1:b:430:GLN:HE22	1.76	0.50
1:b:252:TYR:OH	1:b:374:ILE:O	2.27	0.50
1:b:484:TYR:HE2	1:b:507:SER:HB3	1.76	0.50
1:c:430:GLN:HE22	1:d:353:PRO:HB3	1.75	0.50
1:e:484:TYR:HE2	1:e:507:SER:HB3	1.76	0.50
1:g:446:TYR:CD1	1:g:473:VAL:HG11	2.46	0.50
1:h:484:TYR:HE2	1:h:507:SER:HB3	1.76	0.50
1:k:475:GLY:HA2	1:l:519:ASN:HB3	1.92	0.50
1:p:415:TYR:OH	1:p:642:HIS:O	2.23	0.50
1:p:719:GLY:HA2	1:q:257:TYR:O	2.10	0.50
1:q:225:SER:HG	1:q:319:ASN:H	1.59	0.50
1:q:446:TYR:CD1	1:q:473:VAL:HG11	2.46	0.50
1:r:475:GLY:HA2	1:s:519:ASN:HB3	1.92	0.50
1:7:446:TYR:CD1	1:7:473:VAL:HG11	2.46	0.50
1:8:484:TYR:HE2	1:8:507:SER:HB3	1.76	0.50
1:A:655:PRO:HG3	1:B:371:VAL:HG11	1.93	0.50
1:C:244:THR:HA	1:C:679:VAL:O	2.11	0.50
1:H:719:GLY:HA2	1:I:257:TYR:O	2.10	0.50
1:I:350:TYR:OH	1:I:643:PRO:O	2.25	0.50
1:M:446:TYR:CD1	1:M:473:VAL:HG11	2.46	0.50
1:O:355:VAL:H	1:O:646:GLN:HE22	1.57	0.50
1:O:446:TYR:CD1	1:O:473:VAL:HG11	2.46	0.50
1:O:554:ASP:OD1	1:h:462:LYS:NZ	2.32	0.50
1:R:244:THR:HA	1:R:679:VAL:O	2.11	0.50
1:R:475:GLY:HA2	1:S:519:ASN:HB3	1.92	0.50
1:S:244:THR:HA	1:S:679:VAL:O	2.11	0.50
1:S:446:TYR:CD1	1:S:473:VAL:HG11	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:322:VAL:HG11	1:T:673:GLN:HE21	1.76	0.50
1:W:322:VAL:HG11	1:W:673:GLN:HE21	1.76	0.50
1:4:484:TYR:HE2	1:4:507:SER:HB3	1.76	0.50
1:5:322:VAL:HG11	1:5:673:GLN:HE21	1.76	0.50
1:a:225:SER:HG	1:a:319:ASN:H	1.59	0.50
1:a:244:THR:HA	1:a:679:VAL:O	2.11	0.50
1:d:446:TYR:CD1	1:d:473:VAL:HG11	2.46	0.50
1:g:553:VAL:HB	1:g:557:LYS:HE2	1.92	0.50
1:j:415:TYR:OH	1:j:642:HIS:O	2.23	0.50
1:k:244:THR:HA	1:k:679:VAL:O	2.11	0.50
1:k:371:VAL:HG11	1:s:655:PRO:HG3	1.93	0.50
1:l:244:THR:HA	1:l:679:VAL:O	2.11	0.50
1:l:446:TYR:CD1	1:l:473:VAL:HG11	2.46	0.50
1:n:446:TYR:CD1	1:n:473:VAL:HG11	2.46	0.50
1:o:655:PRO:HG3	1:y:371:VAL:HG11	1.93	0.50
1:r:244:THR:HA	1:r:679:VAL:O	2.11	0.50
1:r:484:TYR:HE2	1:r:507:SER:HB3	1.76	0.50
1:t:350:TYR:OH	1:t:643:PRO:O	2.25	0.50
1:u:446:TYR:CD1	1:u:473:VAL:HG11	2.46	0.50
1:w:322:VAL:HG11	1:w:673:GLN:HE21	1.76	0.50
1:A:415:TYR:OH	1:A:642:HIS:O	2.23	0.50
1:B:446:TYR:CD1	1:B:473:VAL:HG11	2.46	0.50
1:G:446:TYR:CD1	1:G:473:VAL:HG11	2.46	0.50
1:I:371:VAL:HG11	1:J:655:PRO:HG3	1.93	0.50
1:K:519:ASN:HB3	1:8:475:GLY:HA2	1.93	0.50
1:L:244:THR:HA	1:L:679:VAL:O	2.11	0.50
1:M:319:ASN:ND2	1:N:404:MET:SD	2.84	0.50
1:O:371:VAL:HG11	1:P:655:PRO:HG3	1.92	0.50
1:P:446:TYR:CD1	1:P:473:VAL:HG11	2.46	0.50
1:Q:244:THR:HA	1:Q:679:VAL:O	2.11	0.50
1:R:225:SER:HG	1:R:319:ASN:H	1.59	0.50
1:W:244:THR:HA	1:W:679:VAL:O	2.11	0.50
1:Y:244:THR:HA	1:Y:679:VAL:O	2.11	0.50
1:Z:244:THR:HA	1:Z:679:VAL:O	2.11	0.50
1:Z:475:GLY:HA2	1:x:519:ASN:HB3	1.93	0.50
1:2:484:TYR:HE2	1:2:507:SER:HB3	1.76	0.50
1:3:322:VAL:HG11	1:3:673:GLN:HE21	1.76	0.50
1:6:446:TYR:CD1	1:6:473:VAL:HG11	2.46	0.50
1:b:355:VAL:H	1:b:646:GLN:HE22	1.57	0.50
1:b:446:TYR:CD1	1:b:473:VAL:HG11	2.46	0.50
1:d:655:PRO:HG3	1:f:371:VAL:HG11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:257:TYR:O	1:q:719:GLY:HA2	2.10	0.50
1:f:446:TYR:CD1	1:f:473:VAL:HG11	2.46	0.50
1:l:415:TYR:OH	1:l:642:HIS:O	2.23	0.50
1:m:244:THR:HA	1:m:679:VAL:O	2.11	0.50
1:o:257:TYR:O	1:y:719:GLY:HA2	2.10	0.50
1:o:371:VAL:HG11	1:v:655:PRO:HG3	1.93	0.50
1:q:350:TYR:OH	1:q:643:PRO:O	2.25	0.50
1:r:446:TYR:CD1	1:r:473:VAL:HG11	2.46	0.50
1:t:244:THR:HA	1:t:679:VAL:O	2.11	0.50
1:u:553:VAL:HB	1:u:557:LYS:HE2	1.92	0.50
1:z:244:THR:HA	1:z:679:VAL:O	2.11	0.50
1:z:322:VAL:HG11	1:z:673:GLN:HE21	1.76	0.50
1:7:225:SER:HG	1:7:319:ASN:H	1.59	0.50
1:7:244:THR:HA	1:7:679:VAL:O	2.11	0.50
1:8:244:THR:HA	1:8:679:VAL:O	2.11	0.50
1:C:563:GLU:O	1:C:566:ILE:HG12	2.12	0.50
1:C:655:PRO:HG3	1:D:371:VAL:HG11	1.93	0.50
1:D:257:TYR:O	1:E:719:GLY:HA2	2.10	0.50
1:D:475:GLY:HA2	1:N:519:ASN:HB3	1.92	0.50
1:F:553:VAL:HB	1:F:557:LYS:HE2	1.92	0.50
1:O:244:THR:HA	1:O:679:VAL:O	2.11	0.50
1:Q:446:TYR:CD1	1:Q:473:VAL:HG11	2.46	0.50
1:T:462:LYS:NZ	1:4:554:ASP:OD1	2.32	0.50
1:U:244:THR:HA	1:U:679:VAL:O	2.11	0.50
1:U:563:GLU:O	1:U:566:ILE:HG12	2.12	0.50
1:Z:655:PRO:HG3	1:1:371:VAL:HG11	1.92	0.50
1:2:446:TYR:CD1	1:2:473:VAL:HG11	2.46	0.50
1:a:563:GLU:O	1:a:566:ILE:HG12	2.12	0.50
1:a:655:PRO:HG3	1:e:371:VAL:HG11	1.92	0.50
1:b:319:ASN:ND2	1:c:404:MET:SD	2.84	0.50
1:c:353:PRO:HB3	1:e:430:GLN:HE22	1.75	0.50
1:c:519:ASN:HB3	1:e:475:GLY:HA2	1.92	0.50
1:g:322:VAL:HG11	1:g:673:GLN:HE21	1.76	0.50
1:k:296:ARG:NH2	1:r:690:GLU:OE1	2.42	0.50
1:p:655:PRO:HG3	1:u:371:VAL:HG11	1.93	0.50
1:s:553:VAL:HB	1:s:557:LYS:HE2	1.92	0.50
1:w:353:PRO:HB3	1:x:430:GLN:HE22	1.75	0.50
1:x:446:TYR:CD1	1:x:473:VAL:HG11	2.46	0.50
1:A:371:VAL:HG11	1:E:655:PRO:HG3	1.93	0.50
1:J:484:TYR:HE2	1:J:507:SER:HB3	1.76	0.50
1:K:446:TYR:CD1	1:K:473:VAL:HG11	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:655:PRO:HG3	1:7:371:VAL:HG11	1.92	0.50
1:M:563:GLU:O	1:M:566:ILE:HG12	2.12	0.50
1:O:563:GLU:O	1:O:566:ILE:HG12	2.12	0.50
1:Q:563:GLU:O	1:Q:566:ILE:HG12	2.12	0.50
1:S:319:ASN:ND2	1:4:404:MET:SD	2.84	0.50
1:T:553:VAL:HB	1:T:557:LYS:HE2	1.92	0.50
1:W:252:TYR:OH	1:W:374:ILE:O	2.27	0.50
1:1:313:LEU:HB3	1:1:415:TYR:HB3	1.94	0.50
1:1:563:GLU:O	1:1:566:ILE:HG12	2.12	0.50
1:2:244:THR:HA	1:2:679:VAL:O	2.11	0.50
1:4:244:THR:HA	1:4:679:VAL:O	2.11	0.50
1:6:244:THR:HA	1:6:679:VAL:O	2.11	0.50
1:6:484:TYR:HE2	1:6:507:SER:HB3	1.76	0.50
1:c:446:TYR:CD1	1:c:473:VAL:HG11	2.46	0.50
1:f:244:THR:HA	1:f:679:VAL:O	2.11	0.50
1:f:563:GLU:O	1:f:566:ILE:HG12	2.12	0.50
1:h:244:THR:HA	1:h:679:VAL:O	2.11	0.50
1:h:404:MET:SD	1:l:319:ASN:ND2	2.84	0.50
1:m:563:GLU:O	1:m:566:ILE:HG12	2.12	0.50
1:r:563:GLU:O	1:r:566:ILE:HG12	2.12	0.50
1:t:353:PRO:HB3	1:v:430:GLN:HE22	1.75	0.50
1:t:446:TYR:CD1	1:t:473:VAL:HG11	2.46	0.50
1:w:313:LEU:HB3	1:w:415:TYR:HB3	1.94	0.50
1:w:563:GLU:O	1:w:566:ILE:HG12	2.12	0.50
1:J:430:GLN:HE22	1:L:353:PRO:HB3	1.75	0.50
1:N:446:TYR:CD1	1:N:473:VAL:HG11	2.46	0.50
1:V:484:TYR:HE2	1:V:507:SER:HB3	1.76	0.50
1:V:563:GLU:O	1:V:566:ILE:HG12	2.12	0.50
1:X:244:THR:HA	1:X:679:VAL:O	2.11	0.50
1:X:563:GLU:O	1:X:566:ILE:HG12	2.12	0.50
1:Y:371:VAL:HG11	1:x:655:PRO:HG3	1.92	0.50
1:3:446:TYR:CD1	1:3:473:VAL:HG11	2.46	0.50
1:4:462:LYS:NZ	1:f:554:ASP:OD1	2.32	0.50
1:5:446:TYR:CD1	1:5:473:VAL:HG11	2.46	0.50
1:b:563:GLU:O	1:b:566:ILE:HG12	2.12	0.50
1:i:563:GLU:O	1:i:566:ILE:HG12	2.12	0.50
1:j:563:GLU:O	1:j:566:ILE:HG12	2.12	0.50
1:v:484:TYR:HE2	1:v:507:SER:HB3	1.76	0.50
1:y:446:TYR:CD1	1:y:473:VAL:HG11	2.46	0.50
1:y:484:TYR:HE2	1:y:507:SER:HB3	1.76	0.50
1:B:244:THR:HA	1:B:679:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:GLN:HE22	1:N:353:PRO:HB3	1.75	0.50
1:E:244:THR:HA	1:E:679:VAL:O	2.11	0.50
1:G:563:GLU:O	1:G:566:ILE:HG12	2.12	0.50
1:J:528:LYS:HG2	1:J:572:VAL:HG21	1.94	0.50
1:L:446:TYR:CD1	1:L:473:VAL:HG11	2.46	0.50
1:O:371:VAL:HG12	1:P:667:LEU:HD12	1.94	0.50
1:P:244:THR:HA	1:P:679:VAL:O	2.11	0.50
1:P:484:TYR:HE2	1:P:507:SER:HB3	1.76	0.50
1:S:415:TYR:OH	1:S:642:HIS:O	2.23	0.50
1:T:519:ASN:HB3	1:f:475:GLY:HA2	1.93	0.50
1:W:313:LEU:HB3	1:W:415:TYR:HB3	1.94	0.50
1:Z:563:GLU:O	1:Z:566:ILE:HG12	2.12	0.50
1:5:225:SER:HG	1:5:319:ASN:H	1.58	0.50
1:5:313:LEU:HB3	1:5:415:TYR:HB3	1.94	0.50
1:6:497:ASN:HD21	1:a:590:GLN:HG2	1.75	0.50
1:a:319:ASN:ND2	1:u:404:MET:SD	2.85	0.50
1:d:244:THR:HA	1:d:679:VAL:O	2.11	0.50
1:d:667:LEU:HD12	1:f:371:VAL:HG12	1.94	0.50
1:g:462:LYS:NZ	1:h:554:ASP:OD1	2.32	0.50
1:i:244:THR:HA	1:i:679:VAL:O	2.11	0.50
1:n:563:GLU:O	1:n:566:ILE:HG12	2.12	0.50
1:q:244:THR:HA	1:q:679:VAL:O	2.11	0.50
1:s:247:TRP:HD1	1:s:679:VAL:HG23	1.72	0.50
1:s:563:GLU:O	1:s:566:ILE:HG12	2.12	0.50
1:u:244:THR:HA	1:u:679:VAL:O	2.11	0.50
1:w:371:VAL:HG11	1:8:655:PRO:HG3	1.92	0.50
1:x:563:GLU:O	1:x:566:ILE:HG12	2.12	0.50
1:C:322:VAL:HG11	1:C:673:GLN:HE21	1.76	0.50
1:C:355:VAL:H	1:C:646:GLN:HE22	1.57	0.50
1:D:355:VAL:H	1:D:646:GLN:HE22	1.57	0.50
1:D:424:SER:HB2	1:D:426:TYR:CE2	2.47	0.50
1:E:528:LYS:HG2	1:E:572:VAL:HG21	1.94	0.50
1:F:244:THR:HA	1:F:679:VAL:O	2.11	0.50
1:F:563:GLU:O	1:F:566:ILE:HG12	2.12	0.50
1:H:446:TYR:CD1	1:H:473:VAL:HG11	2.46	0.50
1:H:484:TYR:HE2	1:H:507:SER:HB3	1.76	0.50
1:K:244:THR:HA	1:K:679:VAL:O	2.11	0.50
1:K:563:GLU:O	1:K:566:ILE:HG12	2.12	0.50
1:N:355:VAL:H	1:N:646:GLN:HE22	1.57	0.50
1:O:247:TRP:HD1	1:O:679:VAL:HG23	1.72	0.50
1:O:475:GLY:HA2	1:g:519:ASN:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:313:LEU:HB3	1:Q:415:TYR:HB3	1.94	0.50
1:T:424:SER:HB2	1:T:426:TYR:CE2	2.47	0.50
1:1:424:SER:HB2	1:1:426:TYR:CE2	2.47	0.50
1:3:313:LEU:HB3	1:3:415:TYR:HB3	1.94	0.50
1:3:519:ASN:HB3	1:j:475:GLY:HA2	1.92	0.50
1:4:225:SER:HG	1:4:319:ASN:H	1.58	0.50
1:a:322:VAL:HG11	1:a:673:GLN:HE21	1.76	0.50
1:e:528:LYS:HG2	1:e:572:VAL:HG21	1.94	0.50
1:g:244:THR:HA	1:g:679:VAL:O	2.11	0.50
1:g:424:SER:HB2	1:g:426:TYR:CE2	2.47	0.50
1:j:484:TYR:HE2	1:j:507:SER:HB3	1.76	0.50
1:m:313:LEU:HB3	1:m:415:TYR:HB3	1.94	0.50
1:r:313:LEU:HB3	1:r:415:TYR:HB3	1.94	0.50
1:u:484:TYR:HE2	1:u:507:SER:HB3	1.76	0.50
1:v:563:GLU:O	1:v:566:ILE:HG12	2.12	0.50
1:w:355:VAL:H	1:w:646:GLN:HE22	1.57	0.50
1:w:424:SER:HB2	1:w:426:TYR:CE2	2.47	0.50
1:z:252:TYR:OH	1:z:374:ILE:O	2.27	0.50
1:z:313:LEU:HB3	1:z:415:TYR:HB3	1.94	0.50
1:8:563:GLU:O	1:8:566:ILE:HG12	2.12	0.50
1:A:424:SER:HB2	1:A:426:TYR:CE2	2.47	0.50
1:D:528:LYS:HG2	1:D:572:VAL:HG21	1.94	0.50
1:H:667:LEU:HD12	1:Z:371:VAL:HG12	1.94	0.50
1:I:244:THR:HA	1:I:679:VAL:O	2.11	0.50
1:J:563:GLU:O	1:J:566:ILE:HG12	2.12	0.50
1:N:244:THR:HA	1:N:679:VAL:O	2.11	0.50
1:N:313:LEU:HB3	1:N:415:TYR:HB3	1.94	0.50
1:Q:690:GLU:OE1	1:R:296:ARG:NH2	2.42	0.50
1:U:313:LEU:HB3	1:U:415:TYR:HB3	1.94	0.50
1:V:313:LEU:HB3	1:V:415:TYR:HB3	1.94	0.50
1:V:475:GLY:HA2	1:5:519:ASN:HB3	1.92	0.50
1:5:244:THR:HA	1:5:679:VAL:O	2.11	0.50
1:a:355:VAL:H	1:a:646:GLN:HE22	1.57	0.50
1:c:244:THR:HA	1:c:679:VAL:O	2.11	0.50
1:c:313:LEU:HB3	1:c:415:TYR:HB3	1.94	0.50
1:d:484:TYR:HE2	1:d:507:SER:HB3	1.76	0.50
1:e:424:SER:HB2	1:e:426:TYR:CE2	2.47	0.50
1:i:484:TYR:HE2	1:i:507:SER:HB3	1.76	0.50
1:j:313:LEU:HB3	1:j:415:TYR:HB3	1.94	0.50
1:m:528:LYS:HG2	1:m:572:VAL:HG21	1.94	0.50
1:p:225:SER:HG	1:p:319:ASN:H	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:424:SER:HB2	1:p:426:TYR:CE2	2.47	0.50
1:q:528:LYS:HG2	1:q:572:VAL:HG21	1.94	0.50
1:s:244:THR:HA	1:s:679:VAL:O	2.11	0.50
1:v:528:LYS:HG2	1:v:572:VAL:HG21	1.94	0.50
1:x:244:THR:HA	1:x:679:VAL:O	2.11	0.50
1:y:430:GLN:HE22	1:z:353:PRO:HB3	1.75	0.50
1:B:563:GLU:O	1:B:566:ILE:HG12	2.12	0.49
1:C:313:LEU:HB3	1:C:415:TYR:HB3	1.94	0.49
1:F:247:TRP:HD1	1:F:679:VAL:HG23	1.72	0.49
1:H:322:VAL:HG11	1:H:673:GLN:HE21	1.76	0.49
1:H:563:GLU:O	1:H:566:ILE:HG12	2.12	0.49
1:I:424:SER:HB2	1:I:426:TYR:CE2	2.47	0.49
1:J:424:SER:HB2	1:J:426:TYR:CE2	2.47	0.49
1:K:424:SER:HB2	1:K:426:TYR:CE2	2.47	0.49
1:K:462:LYS:NZ	1:1:554:ASP:OD1	2.32	0.49
1:O:424:SER:HB2	1:O:426:TYR:CE2	2.47	0.49
1:T:244:THR:HA	1:T:679:VAL:O	2.11	0.49
1:T:355:VAL:H	1:T:646:GLN:HE22	1.57	0.49
1:T:563:GLU:O	1:T:566:ILE:HG12	2.12	0.49
1:U:528:LYS:HG2	1:U:572:VAL:HG21	1.94	0.49
1:W:424:SER:HB2	1:W:426:TYR:CE2	2.47	0.49
1:W:563:GLU:O	1:W:566:ILE:HG12	2.12	0.49
1:1:355:VAL:H	1:1:646:GLN:HE22	1.57	0.49
1:4:424:SER:HB2	1:4:426:TYR:CE2	2.47	0.49
1:a:313:LEU:HB3	1:a:415:TYR:HB3	1.94	0.49
1:c:355:VAL:H	1:c:646:GLN:HE22	1.57	0.49
1:c:484:TYR:HE2	1:c:507:SER:HB3	1.76	0.49
1:d:322:VAL:HG11	1:d:673:GLN:HE21	1.76	0.49
1:f:424:SER:HB2	1:f:426:TYR:CE2	2.47	0.49
1:h:424:SER:HB2	1:h:426:TYR:CE2	2.47	0.49
1:k:430:GLN:HE22	1:l:353:PRO:HB3	1.75	0.49
1:o:244:THR:HA	1:o:679:VAL:O	2.11	0.49
1:o:424:SER:HB2	1:o:426:TYR:CE2	2.47	0.49
1:t:430:GLN:HE22	1:u:353:PRO:HB3	1.75	0.49
1:u:563:GLU:O	1:u:566:ILE:HG12	2.12	0.49
1:v:424:SER:HB2	1:v:426:TYR:CE2	2.47	0.49
1:x:424:SER:HB2	1:x:426:TYR:CE2	2.47	0.49
1:y:563:GLU:O	1:y:566:ILE:HG12	2.12	0.49
1:y:667:LEU:HD12	1:8:371:VAL:HG12	1.94	0.49
1:z:563:GLU:O	1:z:566:ILE:HG12	2.12	0.49
1:A:528:LYS:HG2	1:A:572:VAL:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:TYR:HE2	1:B:507:SER:HB3	1.76	0.49
1:H:430:GLN:HE22	1:W:353:PRO:HB3	1.75	0.49
1:J:322:VAL:HG11	1:J:673:GLN:HE21	1.76	0.49
1:J:371:VAL:HG11	1:I:655:PRO:HG3	1.93	0.49
1:K:484:TYR:HE2	1:K:507:SER:HB3	1.76	0.49
1:K:667:LEU:HD12	1:7:371:VAL:HG12	1.94	0.49
1:L:424:SER:HB2	1:L:426:TYR:CE2	2.47	0.49
1:N:484:TYR:HE2	1:N:507:SER:HB3	1.76	0.49
1:N:563:GLU:O	1:N:566:ILE:HG12	2.12	0.49
1:P:322:VAL:HG11	1:P:673:GLN:HE21	1.76	0.49
1:P:528:LYS:HG2	1:P:572:VAL:HG21	1.94	0.49
1:R:563:GLU:O	1:R:566:ILE:HG12	2.12	0.49
1:T:528:LYS:HG2	1:T:572:VAL:HG21	1.94	0.49
1:X:484:TYR:HE2	1:X:507:SER:HB3	1.76	0.49
1:Z:667:LEU:HD12	1:I:371:VAL:HG12	1.94	0.49
1:3:244:THR:HA	1:3:679:VAL:O	2.11	0.49
1:3:528:LYS:HG2	1:3:572:VAL:HG21	1.94	0.49
1:4:446:TYR:CD1	1:4:473:VAL:HG11	2.46	0.49
1:5:528:LYS:HG2	1:5:572:VAL:HG21	1.94	0.49
1:b:415:TYR:OH	1:b:642:HIS:O	2.23	0.49
1:d:528:LYS:HG2	1:d:572:VAL:HG21	1.94	0.49
1:f:225:SER:HG	1:f:319:ASN:H	1.59	0.49
1:f:247:TRP:HD1	1:f:679:VAL:HG23	1.72	0.49
1:g:355:VAL:H	1:g:646:GLN:HE22	1.57	0.49
1:g:371:VAL:HG11	1:m:655:PRO:HG3	1.93	0.49
1:g:563:GLU:O	1:g:566:ILE:HG12	2.12	0.49
1:h:225:SER:HG	1:h:319:ASN:H	1.58	0.49
1:j:371:VAL:HG11	1:k:655:PRO:HG3	1.93	0.49
1:n:484:TYR:HE2	1:n:507:SER:HB3	1.76	0.49
1:p:528:LYS:HG2	1:p:572:VAL:HG21	1.94	0.49
1:q:322:VAL:HG11	1:q:673:GLN:HE21	1.76	0.49
1:s:252:TYR:OH	1:s:374:ILE:O	2.27	0.49
1:s:415:TYR:OH	1:s:642:HIS:O	2.23	0.49
1:s:528:LYS:HG2	1:s:572:VAL:HG21	1.94	0.49
1:z:424:SER:HB2	1:z:426:TYR:CE2	2.47	0.49
1:B:353:PRO:HB3	1:L:430:GLN:HE22	1.75	0.49
1:C:667:LEU:HD12	1:D:371:VAL:HG12	1.95	0.49
1:H:313:LEU:HB3	1:H:415:TYR:HB3	1.94	0.49
1:I:225:SER:HG	1:I:319:ASN:H	1.59	0.49
1:K:528:LYS:HG2	1:K:572:VAL:HG21	1.94	0.49
1:N:528:LYS:HG2	1:N:572:VAL:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:563:GLU:O	1:P:566:ILE:HG12	2.12	0.49
1:R:655:PRO:HG3	1:V:371:VAL:HG11	1.93	0.49
1:T:371:VAL:HG11	1:U:655:PRO:HG3	1.93	0.49
1:U:371:VAL:HG12	1:5:667:LEU:HD12	1.95	0.49
1:V:430:GLN:HE22	1:5:353:PRO:HB3	1.75	0.49
1:Y:371:VAL:HG12	1:x:667:LEU:HD12	1.94	0.49
1:2:563:GLU:O	1:2:566:ILE:HG12	2.12	0.49
1:3:667:LEU:HD12	1:m:371:VAL:HG12	1.95	0.49
1:c:563:GLU:O	1:c:566:ILE:HG12	2.12	0.49
1:d:563:GLU:O	1:d:566:ILE:HG12	2.12	0.49
1:h:446:TYR:CD1	1:h:473:VAL:HG11	2.46	0.49
1:k:563:GLU:O	1:k:566:ILE:HG12	2.12	0.49
1:m:424:SER:HB2	1:m:426:TYR:CE2	2.47	0.49
1:p:371:VAL:HG12	1:q:667:LEU:HD12	1.94	0.49
1:q:355:VAL:H	1:q:646:GLN:HE22	1.57	0.49
1:q:563:GLU:O	1:q:566:ILE:HG12	2.12	0.49
1:t:424:SER:HB2	1:t:426:TYR:CE2	2.47	0.49
1:v:322:VAL:HG11	1:v:673:GLN:HE21	1.76	0.49
1:v:371:VAL:HG11	1:w:655:PRO:HG3	1.93	0.49
1:x:484:TYR:HE2	1:x:507:SER:HB3	1.76	0.49
1:x:528:LYS:HG2	1:x:572:VAL:HG21	1.94	0.49
1:y:322:VAL:HG11	1:y:673:GLN:HE21	1.76	0.49
1:A:430:GLN:HE22	1:G:353:PRO:HB3	1.75	0.49
1:C:528:LYS:HG2	1:C:572:VAL:HG21	1.94	0.49
1:E:313:LEU:HB3	1:E:415:TYR:HB3	1.94	0.49
1:E:355:VAL:H	1:E:646:GLN:HE22	1.57	0.49
1:E:563:GLU:O	1:E:566:ILE:HG12	2.12	0.49
1:F:528:LYS:HG2	1:F:572:VAL:HG21	1.94	0.49
1:G:484:TYR:HE2	1:G:507:SER:HB3	1.76	0.49
1:M:371:VAL:HG12	1:N:667:LEU:HD12	1.94	0.49
1:M:424:SER:HB2	1:M:426:TYR:CE2	2.47	0.49
1:O:225:SER:HG	1:O:319:ASN:H	1.59	0.49
1:R:430:GLN:HE22	1:S:353:PRO:HB3	1.75	0.49
1:U:371:VAL:HG11	1:5:655:PRO:HG3	1.93	0.49
1:U:424:SER:HB2	1:U:426:TYR:CE2	2.47	0.49
1:U:484:TYR:HE2	1:U:507:SER:HB3	1.76	0.49
1:Z:247:TRP:HD1	1:Z:679:VAL:HG23	1.73	0.49
1:1:484:TYR:HE2	1:1:507:SER:HB3	1.76	0.49
1:3:353:PRO:HB3	1:j:430:GLN:HE22	1.75	0.49
1:5:563:GLU:O	1:5:566:ILE:HG12	2.12	0.49
1:6:563:GLU:O	1:6:566:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:528:LYS:HG2	1:a:572:VAL:HG21	1.94	0.49
1:b:371:VAL:HG12	1:c:667:LEU:HD12	1.94	0.49
1:c:528:LYS:HG2	1:c:572:VAL:HG21	1.94	0.49
1:e:563:GLU:O	1:e:566:ILE:HG12	2.12	0.49
1:g:528:LYS:HG2	1:g:572:VAL:HG21	1.94	0.49
1:m:484:TYR:HE2	1:m:507:SER:HB3	1.76	0.49
1:q:313:LEU:HB3	1:q:415:TYR:HB3	1.94	0.49
1:u:313:LEU:HB3	1:u:415:TYR:HB3	1.94	0.49
1:u:424:SER:HB2	1:u:426:TYR:CE2	2.47	0.49
1:w:244:THR:HA	1:w:679:VAL:O	2.11	0.49
1:w:371:VAL:HG12	1:8:667:LEU:HD12	1.94	0.49
1:y:313:LEU:HB3	1:y:415:TYR:HB3	1.94	0.49
1:7:528:LYS:HG2	1:7:572:VAL:HG21	1.94	0.49
1:A:371:VAL:HG12	1:E:667:LEU:HD12	1.95	0.49
1:B:313:LEU:HB3	1:B:415:TYR:HB3	1.94	0.49
1:B:424:SER:HB2	1:B:426:TYR:CE2	2.47	0.49
1:D:244:THR:HA	1:D:679:VAL:O	2.11	0.49
1:E:322:VAL:HG11	1:E:673:GLN:HE21	1.76	0.49
1:F:313:LEU:HB3	1:F:415:TYR:HB3	1.94	0.49
1:H:424:SER:HB2	1:H:426:TYR:CE2	2.47	0.49
1:M:415:TYR:OH	1:M:642:HIS:O	2.23	0.49
1:P:371:VAL:HG12	1:Q:667:LEU:HD12	1.94	0.49
1:S:371:VAL:HG12	1:4:667:LEU:HD12	1.95	0.49
1:Y:528:LYS:HG2	1:Y:572:VAL:HG21	1.94	0.49
1:1:244:THR:HA	1:1:679:VAL:O	2.11	0.49
1:3:563:GLU:O	1:3:566:ILE:HG12	2.12	0.49
1:b:424:SER:HB2	1:b:426:TYR:CE2	2.47	0.49
1:d:424:SER:HB2	1:d:426:TYR:CE2	2.47	0.49
1:o:225:SER:HG	1:o:319:ASN:H	1.59	0.49
1:r:424:SER:HB2	1:r:426:TYR:CE2	2.47	0.49
1:s:313:LEU:HB3	1:s:415:TYR:HB3	1.94	0.49
1:w:484:TYR:HE2	1:w:507:SER:HB3	1.76	0.49
1:w:554:ASP:OD1	1:x:462:LYS:NZ	2.32	0.49
1:z:247:TRP:HD1	1:z:679:VAL:HG23	1.73	0.49
1:B:462:LYS:NZ	1:J:554:ASP:OD1	2.32	0.49
1:D:563:GLU:O	1:D:566:ILE:HG12	2.12	0.49
1:F:415:TYR:OH	1:F:642:HIS:O	2.23	0.49
1:F:424:SER:HB2	1:F:426:TYR:CE2	2.47	0.49
1:G:371:VAL:HG12	1:W:667:LEU:HD12	1.94	0.49
1:G:528:LYS:HG2	1:G:572:VAL:HG21	1.94	0.49
1:I:313:LEU:HB3	1:I:415:TYR:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:563:GLU:O	1:I:566:ILE:HG12	2.12	0.49
1:M:225:SER:HG	1:M:319:ASN:H	1.59	0.49
1:P:424:SER:HB2	1:P:426:TYR:CE2	2.47	0.49
1:Q:424:SER:HB2	1:Q:426:TYR:CE2	2.47	0.49
1:S:528:LYS:HG2	1:S:572:VAL:HG21	1.94	0.49
1:S:563:GLU:O	1:S:566:ILE:HG12	2.12	0.49
1:3:655:PRO:HG3	1:m:371:VAL:HG11	1.93	0.49
1:6:313:LEU:HB3	1:6:415:TYR:HB3	1.94	0.49
1:b:225:SER:HG	1:b:319:ASN:H	1.59	0.49
1:e:244:THR:HA	1:e:679:VAL:O	2.11	0.49
1:h:667:LEU:HD12	1:l:371:VAL:HG12	1.95	0.49
1:n:353:PRO:HB3	1:p:430:GLN:HE22	1.75	0.49
1:o:313:LEU:HB3	1:o:415:TYR:HB3	1.94	0.49
1:o:563:GLU:O	1:o:566:ILE:HG12	2.12	0.49
1:s:424:SER:HB2	1:s:426:TYR:CE2	2.47	0.49
1:v:350:TYR:OH	1:v:643:PRO:O	2.25	0.49
1:y:424:SER:HB2	1:y:426:TYR:CE2	2.47	0.49
1:A:563:GLU:O	1:A:566:ILE:HG12	2.12	0.49
1:K:313:LEU:HB3	1:K:415:TYR:HB3	1.94	0.49
1:L:563:GLU:O	1:L:566:ILE:HG12	2.12	0.49
1:R:441:ASP:CG	1:S:550:ARG:HH12	2.17	0.49
1:T:225:SER:HG	1:T:319:ASN:H	1.58	0.49
1:U:355:VAL:H	1:U:646:GLN:HE22	1.57	0.49
1:W:247:TRP:HD1	1:W:679:VAL:HG23	1.73	0.49
1:Y:424:SER:HB2	1:Y:426:TYR:CE2	2.47	0.49
1:2:313:LEU:HB3	1:2:415:TYR:HB3	1.94	0.49
1:2:528:LYS:HG2	1:2:572:VAL:HG21	1.94	0.49
1:4:563:GLU:O	1:4:566:ILE:HG12	2.12	0.49
1:6:667:LEU:HD12	1:t:371:VAL:HG12	1.95	0.49
1:f:528:LYS:HG2	1:f:572:VAL:HG21	1.94	0.49
1:h:563:GLU:O	1:h:566:ILE:HG12	2.12	0.49
1:j:371:VAL:HG12	1:k:667:LEU:HD12	1.95	0.49
1:l:667:LEU:HD12	1:r:371:VAL:HG12	1.95	0.49
1:m:355:VAL:H	1:m:646:GLN:HE22	1.57	0.49
1:n:371:VAL:HG12	1:z:667:LEU:HD12	1.94	0.49
1:n:528:LYS:HG2	1:n:572:VAL:HG21	1.94	0.49
1:o:528:LYS:HG2	1:o:572:VAL:HG21	1.94	0.49
1:t:563:GLU:O	1:t:566:ILE:HG12	2.12	0.49
1:u:462:LYS:NZ	1:v:554:ASP:OD1	2.32	0.49
1:F:371:VAL:HG12	1:G:667:LEU:HD12	1.94	0.49
1:H:462:LYS:NZ	1:W:554:ASP:OD1	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:528:LYS:HG2	1:I:572:VAL:HG21	1.94	0.49
1:L:371:VAL:HG12	1:2:667:LEU:HD12	1.95	0.49
1:M:353:PRO:HB3	1:2:430:GLN:HE22	1.76	0.49
1:R:667:LEU:HD12	1:V:371:VAL:HG12	1.95	0.49
1:Z:554:ASP:OD1	1:w:462:LYS:NZ	2.32	0.49
1:3:247:TRP:HD1	1:3:679:VAL:HG23	1.72	0.49
1:5:247:TRP:HD1	1:5:679:VAL:HG23	1.72	0.49
1:5:371:VAL:HG12	1:b:667:LEU:HD12	1.95	0.49
1:6:430:GLN:HE22	1:b:353:PRO:HB3	1.76	0.49
1:b:313:LEU:HB3	1:b:415:TYR:HB3	1.94	0.49
1:d:371:VAL:HG12	1:r:667:LEU:HD12	1.95	0.49
1:i:424:SER:HB2	1:i:426:TYR:CE2	2.47	0.49
1:l:350:TYR:OH	1:l:643:PRO:O	2.25	0.49
1:l:528:LYS:HG2	1:l:572:VAL:HG21	1.94	0.49
1:l:563:GLU:O	1:l:566:ILE:HG12	2.12	0.49
1:n:313:LEU:HB3	1:n:415:TYR:HB3	1.94	0.49
1:p:563:GLU:O	1:p:566:ILE:HG12	2.12	0.49
1:x:313:LEU:HB3	1:x:415:TYR:HB3	1.94	0.49
1:7:424:SER:HB2	1:7:426:TYR:CE2	2.47	0.49
1:8:247:TRP:HD1	1:8:679:VAL:HG23	1.72	0.49
1:8:424:SER:HB2	1:8:426:TYR:CE2	2.47	0.49
1:G:313:LEU:HB3	1:G:415:TYR:HB3	1.94	0.49
1:M:313:LEU:HB3	1:M:415:TYR:HB3	1.94	0.49
1:M:667:LEU:HD12	1:3:371:VAL:HG12	1.95	0.49
1:N:424:SER:HB2	1:N:426:TYR:CE2	2.47	0.49
1:O:528:LYS:HG2	1:O:572:VAL:HG21	1.94	0.49
1:R:424:SER:HB2	1:R:426:TYR:CE2	2.47	0.49
1:V:424:SER:HB2	1:V:426:TYR:CE2	2.47	0.49
1:X:424:SER:HB2	1:X:426:TYR:CE2	2.47	0.49
1:2:371:VAL:HG12	1:i:667:LEU:HD12	1.95	0.49
1:3:424:SER:HB2	1:3:426:TYR:CE2	2.47	0.49
1:5:424:SER:HB2	1:5:426:TYR:CE2	2.47	0.49
1:6:424:SER:HB2	1:6:426:TYR:CE2	2.47	0.49
1:6:528:LYS:HG2	1:6:572:VAL:HG21	1.94	0.49
1:a:252:TYR:OH	1:a:374:ILE:O	2.27	0.49
1:b:528:LYS:HG2	1:b:572:VAL:HG21	1.94	0.49
1:c:424:SER:HB2	1:c:426:TYR:CE2	2.47	0.49
1:g:225:SER:HG	1:g:319:ASN:H	1.58	0.49
1:j:424:SER:HB2	1:j:426:TYR:CE2	2.47	0.49
1:k:424:SER:HB2	1:k:426:TYR:CE2	2.47	0.49
1:k:441:ASP:CG	1:l:550:ARG:HH12	2.17	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:599:GLN:OE1	1:p:598:ASN:ND2	2.39	0.49
1:r:247:TRP:HD1	1:r:679:VAL:HG23	1.72	0.49
1:D:313:LEU:HB3	1:D:415:TYR:HB3	1.94	0.49
1:V:550:ARG:HH12	1:X:441:ASP:CG	2.16	0.49
1:W:225:SER:HG	1:W:319:ASN:H	1.59	0.49
1:X:667:LEU:HD12	1:6:371:VAL:HG12	1.95	0.49
1:Z:424:SER:HB2	1:Z:426:TYR:CE2	2.47	0.49
1:2:424:SER:HB2	1:2:426:TYR:CE2	2.47	0.49
1:a:667:LEU:HD12	1:e:371:VAL:HG12	1.95	0.49
1:n:667:LEU:HD12	1:s:371:VAL:HG12	1.94	0.49
1:o:667:LEU:HD12	1:y:371:VAL:HG12	1.94	0.49
1:A:313:LEU:HB3	1:A:415:TYR:HB3	1.94	0.48
1:A:598:ASN:ND2	1:I:599:GLN:OE1	2.39	0.48
1:H:371:VAL:HG12	1:I:667:LEU:HD12	1.94	0.48
1:I:371:VAL:HG12	1:J:667:LEU:HD12	1.95	0.48
1:M:528:LYS:HG2	1:M:572:VAL:HG21	1.94	0.48
1:S:350:TYR:OH	1:S:643:PRO:O	2.25	0.48
1:T:371:VAL:HG12	1:U:667:LEU:HD12	1.95	0.48
1:V:667:LEU:HD12	1:W:371:VAL:HG12	1.95	0.48
1:X:313:LEU:HB3	1:X:415:TYR:HB3	1.94	0.48
1:e:313:LEU:HB3	1:e:415:TYR:HB3	1.94	0.48
1:f:350:TYR:OH	1:f:643:PRO:O	2.25	0.48
1:g:371:VAL:HG12	1:m:667:LEU:HD12	1.95	0.48
1:i:313:LEU:HB3	1:i:415:TYR:HB3	1.94	0.48
1:n:424:SER:HB2	1:n:426:TYR:CE2	2.47	0.48
1:n:550:ARG:HH12	1:p:441:ASP:CG	2.16	0.48
1:p:313:LEU:HB3	1:p:415:TYR:HB3	1.94	0.48
1:v:313:LEU:HB3	1:v:415:TYR:HB3	1.94	0.48
1:y:462:LYS:NZ	1:z:554:ASP:OD1	2.32	0.48
1:7:313:LEU:HB3	1:7:415:TYR:HB3	1.94	0.48
1:8:225:SER:HG	1:8:319:ASN:H	1.59	0.48
1:G:424:SER:HB2	1:G:426:TYR:CE2	2.47	0.48
1:J:313:LEU:HB3	1:J:415:TYR:HB3	1.94	0.48
1:O:554:ASP:HB2	1:O:557:LYS:HZ3	1.78	0.48
1:Y:313:LEU:HB3	1:Y:415:TYR:HB3	1.94	0.48
1:Y:563:GLU:O	1:Y:566:ILE:HG12	2.12	0.48
1:1:462:LYS:NZ	1:8:554:ASP:OD1	2.32	0.48
1:4:355:VAL:H	1:4:646:GLN:HE22	1.57	0.48
1:f:667:LEU:HD12	1:h:371:VAL:HG12	1.94	0.48
1:j:528:LYS:HG2	1:j:572:VAL:HG21	1.94	0.48
1:j:667:LEU:HD12	1:z:371:VAL:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:424:SER:HB2	1:l:426:TYR:CE2	2.47	0.48
1:o:371:VAL:HG12	1:v:667:LEU:HD12	1.95	0.48
1:r:528:LYS:HG2	1:r:572:VAL:HG21	1.94	0.48
1:v:225:SER:HG	1:v:319:ASN:H	1.59	0.48
1:v:371:VAL:HG12	1:w:667:LEU:HD12	1.95	0.48
1:7:563:GLU:O	1:7:566:ILE:HG12	2.12	0.48
1:A:434:ARG:HD2	1:G:380:LEU:HD13	1.95	0.48
1:E:424:SER:HB2	1:E:426:TYR:CE2	2.47	0.48
1:K:371:VAL:HG12	1:L:667:LEU:HD12	1.95	0.48
1:O:350:TYR:OH	1:O:643:PRO:O	2.25	0.48
1:Q:371:VAL:HG12	1:S:667:LEU:HD12	1.95	0.48
1:S:424:SER:HB2	1:S:426:TYR:CE2	2.47	0.48
1:V:528:LYS:HG2	1:V:572:VAL:HG21	1.94	0.48
1:Z:225:SER:HG	1:Z:319:ASN:H	1.59	0.48
1:Z:441:ASP:CG	1:x:550:ARG:HH12	2.16	0.48
1:4:313:LEU:HB3	1:4:415:TYR:HB3	1.94	0.48
1:a:424:SER:HB2	1:a:426:TYR:CE2	2.47	0.48
1:h:313:LEU:HB3	1:h:415:TYR:HB3	1.94	0.48
1:h:528:LYS:HG2	1:h:572:VAL:HG21	1.94	0.48
1:i:441:ASP:CG	1:j:550:ARG:HH12	2.16	0.48
1:i:528:LYS:HG2	1:i:572:VAL:HG21	1.94	0.48
1:q:462:LYS:NZ	1:r:554:ASP:OD1	2.32	0.48
1:t:313:LEU:HB3	1:t:415:TYR:HB3	1.94	0.48
1:8:313:LEU:HB3	1:8:415:TYR:HB3	1.94	0.48
1:J:371:VAL:HG12	1:1:667:LEU:HD12	1.95	0.48
1:L:313:LEU:HB3	1:L:415:TYR:HB3	1.94	0.48
1:O:667:LEU:HD12	1:4:371:VAL:HG12	1.94	0.48
1:Q:247:TRP:HD1	1:Q:679:VAL:HG23	1.72	0.48
1:Q:528:LYS:HG2	1:Q:572:VAL:HG21	1.94	0.48
1:T:313:LEU:HB3	1:T:415:TYR:HB3	1.94	0.48
1:W:528:LYS:HG2	1:W:572:VAL:HG21	1.94	0.48
1:X:528:LYS:HG2	1:X:572:VAL:HG21	1.94	0.48
1:Z:313:LEU:HB3	1:Z:415:TYR:HB3	1.94	0.48
1:1:528:LYS:HG2	1:1:572:VAL:HG21	1.94	0.48
1:4:528:LYS:HG2	1:4:572:VAL:HG21	1.94	0.48
1:p:667:LEU:HD12	1:u:371:VAL:HG12	1.94	0.48
1:t:667:LEU:HD12	1:x:371:VAL:HG12	1.95	0.48
1:w:528:LYS:HG2	1:w:572:VAL:HG21	1.94	0.48
1:z:528:LYS:HG2	1:z:572:VAL:HG21	1.94	0.48
1:C:424:SER:HB2	1:C:426:TYR:CE2	2.47	0.48
1:F:598:ASN:ND2	1:Q:599:GLN:OE1	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:528:LYS:HG2	1:H:572:VAL:HG21	1.94	0.48
1:K:550:ARG:HH12	1:8:441:ASP:CG	2.16	0.48
1:N:371:VAL:HG12	1:g:667:LEU:HD12	1.94	0.48
1:O:313:LEU:HB3	1:O:415:TYR:HB3	1.94	0.48
1:R:528:LYS:HG2	1:R:572:VAL:HG21	1.94	0.48
1:T:667:LEU:HD12	1:c:371:VAL:HG12	1.94	0.48
1:5:350:TYR:OH	1:5:643:PRO:O	2.25	0.48
1:6:462:LYS:NZ	1:b:554:ASP:OD1	2.32	0.48
1:d:225:SER:HG	1:d:319:ASN:H	1.59	0.48
1:g:313:LEU:HB3	1:g:415:TYR:HB3	1.94	0.48
1:h:355:VAL:H	1:h:646:GLN:HE22	1.57	0.48
1:o:350:TYR:OH	1:o:643:PRO:O	2.25	0.48
1:q:424:SER:HB2	1:q:426:TYR:CE2	2.47	0.48
1:y:528:LYS:HG2	1:y:572:VAL:HG21	1.94	0.48
1:A:667:LEU:HD12	1:B:371:VAL:HG12	1.94	0.48
1:H:380:LEU:HD13	1:Y:434:ARG:HD2	1.96	0.48
1:K:554:ASP:OD1	1:8:462:LYS:NZ	2.32	0.48
1:K:716:ASN:HB3	1:K:720:VAL:H	1.79	0.48
1:O:434:ARG:HD2	1:g:380:LEU:HD13	1.96	0.48
1:Q:367:PHE:CE2	1:Q:369:ALA:HB3	2.49	0.48
1:R:313:LEU:HB3	1:R:415:TYR:HB3	1.94	0.48
1:R:380:LEU:HD13	1:U:434:ARG:HD2	1.96	0.48
1:T:367:PHE:CE2	1:T:369:ALA:HB3	2.49	0.48
1:T:380:LEU:HD13	1:f:434:ARG:HD2	1.96	0.48
1:3:350:TYR:OH	1:3:643:PRO:O	2.25	0.48
1:b:367:PHE:CE2	1:b:369:ALA:HB3	2.49	0.48
1:f:313:LEU:HB3	1:f:415:TYR:HB3	1.94	0.48
1:g:367:PHE:CE2	1:g:369:ALA:HB3	2.49	0.48
1:k:313:LEU:HB3	1:k:415:TYR:HB3	1.94	0.48
1:k:371:VAL:HG12	1:s:667:LEU:HD12	1.94	0.48
1:k:380:LEU:HD13	1:m:434:ARG:HD2	1.96	0.48
1:o:355:VAL:H	1:o:646:GLN:HE22	1.57	0.48
1:y:380:LEU:HD13	1:7:434:ARG:HD2	1.96	0.48
1:z:225:SER:HG	1:z:319:ASN:H	1.59	0.48
1:B:528:LYS:HG2	1:B:572:VAL:HG21	1.94	0.48
1:F:667:LEU:HD12	1:R:371:VAL:HG12	1.94	0.48
1:G:367:PHE:CE2	1:G:369:ALA:HB3	2.49	0.48
1:K:380:LEU:HD13	1:8:434:ARG:HD2	1.96	0.48
1:N:367:PHE:CE2	1:N:369:ALA:HB3	2.49	0.48
1:R:462:LYS:NZ	1:S:554:ASP:OD1	2.32	0.48
1:S:313:LEU:HB3	1:S:415:TYR:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:367:PHE:CE2	1:W:369:ALA:HB3	2.49	0.48
1:Z:434:ARG:HD2	1:x:380:LEU:HD13	1.96	0.48
1:c:380:LEU:HD13	1:e:434:ARG:HD2	1.96	0.48
1:k:462:LYS:NZ	1:l:554:ASP:OD1	2.32	0.48
1:k:528:LYS:HG2	1:k:572:VAL:HG21	1.94	0.48
1:n:367:PHE:CE2	1:n:369:ALA:HB3	2.49	0.48
1:r:367:PHE:CE2	1:r:369:ALA:HB3	2.49	0.48
1:u:528:LYS:HG2	1:u:572:VAL:HG21	1.94	0.48
1:w:225:SER:HG	1:w:319:ASN:H	1.59	0.48
1:z:367:PHE:CE2	1:z:369:ALA:HB3	2.49	0.48
1:A:441:ASP:CG	1:G:550:ARG:HH12	2.17	0.48
1:B:380:LEU:HD13	1:L:434:ARG:HD2	1.96	0.48
1:D:434:ARG:HD2	1:N:380:LEU:HD13	1.96	0.48
1:E:367:PHE:CE2	1:E:369:ALA:HB3	2.49	0.48
1:I:355:VAL:H	1:I:646:GLN:HE22	1.57	0.48
1:J:367:PHE:CE2	1:J:369:ALA:HB3	2.49	0.48
1:L:528:LYS:HG2	1:L:572:VAL:HG21	1.94	0.48
1:M:367:PHE:CE2	1:M:369:ALA:HB3	2.49	0.48
1:P:313:LEU:HB3	1:P:415:TYR:HB3	1.94	0.48
1:U:350:TYR:OH	1:U:643:PRO:O	2.25	0.48
1:W:716:ASN:HB3	1:W:720:VAL:H	1.79	0.48
1:Z:716:ASN:HB3	1:Z:720:VAL:H	1.79	0.48
1:c:367:PHE:CE2	1:c:369:ALA:HB3	2.49	0.48
1:d:313:LEU:HB3	1:d:415:TYR:HB3	1.94	0.48
1:j:225:SER:HG	1:j:319:ASN:H	1.59	0.48
1:l:313:LEU:HB3	1:l:415:TYR:HB3	1.94	0.48
1:q:367:PHE:CE2	1:q:369:ALA:HB3	2.49	0.48
1:t:434:ARG:HD2	1:u:380:LEU:HD13	1.96	0.48
1:t:528:LYS:HG2	1:t:572:VAL:HG21	1.94	0.48
1:v:367:PHE:CE2	1:v:369:ALA:HB3	2.49	0.48
1:x:716:ASN:HB3	1:x:720:VAL:H	1.79	0.48
1:z:716:ASN:HB3	1:z:720:VAL:H	1.79	0.48
1:7:415:TYR:OH	1:7:642:HIS:O	2.23	0.48
1:A:367:PHE:CE2	1:A:369:ALA:HB3	2.49	0.48
1:C:581:ALA:O	1:2:485:ARG:HD3	2.14	0.48
1:J:225:SER:HG	1:J:319:ASN:H	1.59	0.48
1:J:716:ASN:HB3	1:J:720:VAL:H	1.79	0.48
1:P:716:ASN:HB3	1:P:720:VAL:H	1.79	0.48
1:U:367:PHE:CE2	1:U:369:ALA:HB3	2.49	0.48
1:V:716:ASN:HB3	1:V:720:VAL:H	1.79	0.48
1:Y:415:TYR:OH	1:Y:642:HIS:O	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:367:PHE:CE2	1:2:369:ALA:HB3	2.49	0.48
1:4:716:ASN:HB3	1:4:720:VAL:H	1.79	0.48
1:d:716:ASN:HB3	1:d:720:VAL:H	1.79	0.48
1:h:716:ASN:HB3	1:h:720:VAL:H	1.79	0.48
1:j:716:ASN:HB3	1:j:720:VAL:H	1.79	0.48
1:m:367:PHE:CE2	1:m:369:ALA:HB3	2.49	0.48
1:n:380:LEU:HD13	1:p:434:ARG:HD2	1.96	0.48
1:p:367:PHE:CE2	1:p:369:ALA:HB3	2.49	0.48
1:v:716:ASN:HB3	1:v:720:VAL:H	1.79	0.48
1:8:716:ASN:HB3	1:8:720:VAL:H	1.79	0.48
1:D:462:LYS:NZ	1:N:554:ASP:OD1	2.31	0.48
1:I:716:ASN:HB3	1:I:720:VAL:H	1.79	0.48
1:M:554:ASP:OD1	1:2:462:LYS:NZ	2.32	0.48
1:W:434:ARG:HD2	1:Y:380:LEU:HD13	1.96	0.48
1:Z:528:LYS:HG2	1:Z:572:VAL:HG21	1.94	0.48
1:1:225:SER:HG	1:1:319:ASN:H	1.59	0.48
1:3:367:PHE:CE2	1:3:369:ALA:HB3	2.49	0.48
1:5:367:PHE:CE2	1:5:369:ALA:HB3	2.49	0.48
1:c:554:ASP:OD1	1:e:462:LYS:NZ	2.31	0.48
1:e:667:LEU:HD12	1:q:371:VAL:HG12	1.94	0.48
1:g:434:ARG:HD2	1:h:380:LEU:HD13	1.96	0.48
1:h:367:PHE:CE2	1:h:369:ALA:HB3	2.49	0.48
1:n:350:TYR:OH	1:n:643:PRO:O	2.25	0.48
1:o:716:ASN:HB3	1:o:720:VAL:H	1.79	0.48
1:w:367:PHE:CE2	1:w:369:ALA:HB3	2.49	0.48
1:y:225:SER:HG	1:y:319:ASN:H	1.59	0.48
1:8:528:LYS:HG2	1:8:572:VAL:HG21	1.94	0.48
1:A:716:ASN:HB3	1:A:720:VAL:H	1.79	0.47
1:D:367:PHE:CE2	1:D:369:ALA:HB3	2.49	0.47
1:F:367:PHE:CE2	1:F:369:ALA:HB3	2.49	0.47
1:J:599:GLN:OE1	1:L:598:ASN:ND2	2.39	0.47
1:L:716:ASN:HB3	1:L:720:VAL:H	1.79	0.47
1:P:367:PHE:CE2	1:P:369:ALA:HB3	2.49	0.47
1:S:716:ASN:HB3	1:S:720:VAL:H	1.79	0.47
1:T:434:ARG:HD2	1:4:380:LEU:HD13	1.96	0.47
1:T:716:ASN:HB3	1:T:720:VAL:H	1.79	0.47
1:Z:380:LEU:HD13	1:w:434:ARG:HD2	1.96	0.47
1:1:367:PHE:CE2	1:1:369:ALA:HB3	2.49	0.47
1:3:485:ARG:HD3	1:j:581:ALA:O	2.14	0.47
1:4:367:PHE:CE2	1:4:369:ALA:HB3	2.49	0.47
1:6:367:PHE:CE2	1:6:369:ALA:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:367:PHE:CE2	1:i:369:ALA:HB3	2.49	0.47
1:l:462:LYS:NZ	1:m:554:ASP:OD1	2.32	0.47
1:l:716:ASN:HB3	1:l:720:VAL:H	1.79	0.47
1:r:434:ARG:HD2	1:s:380:LEU:HD13	1.96	0.47
1:s:367:PHE:CE2	1:s:369:ALA:HB3	2.49	0.47
1:t:716:ASN:HB3	1:t:720:VAL:H	1.79	0.47
1:v:252:TYR:OH	1:v:374:ILE:O	2.27	0.47
1:y:554:ASP:OD1	1:7:462:LYS:NZ	2.32	0.47
1:z:434:ARG:HD2	1:7:380:LEU:HD13	1.96	0.47
1:D:550:ARG:HH12	1:P:441:ASP:CG	2.16	0.47
1:D:667:LEU:HD12	1:E:371:VAL:HG12	1.94	0.47
1:L:225:SER:HG	1:L:319:ASN:H	1.58	0.47
1:N:716:ASN:HB3	1:N:720:VAL:H	1.79	0.47
1:R:367:PHE:CE2	1:R:369:ALA:HB3	2.49	0.47
1:V:462:LYS:NZ	1:5:554:ASP:OD1	2.32	0.47
1:V:581:ALA:O	1:5:485:ARG:HD3	2.14	0.47
1:X:367:PHE:CE2	1:X:369:ALA:HB3	2.49	0.47
1:1:434:ARG:HD2	1:8:380:LEU:HD13	1.96	0.47
1:5:716:ASN:HB3	1:5:720:VAL:H	1.79	0.47
1:d:367:PHE:CE2	1:d:369:ALA:HB3	2.49	0.47
1:e:367:PHE:CE2	1:e:369:ALA:HB3	2.49	0.47
1:g:716:ASN:HB3	1:g:720:VAL:H	1.79	0.47
1:k:367:PHE:CE2	1:k:369:ALA:HB3	2.49	0.47
1:l:367:PHE:CE2	1:l:369:ALA:HB3	2.49	0.47
1:p:716:ASN:HB3	1:p:720:VAL:H	1.79	0.47
1:u:252:TYR:OH	1:u:374:ILE:O	2.27	0.47
1:x:367:PHE:CE2	1:x:369:ALA:HB3	2.49	0.47
1:B:598:ASN:ND2	1:L:599:GLN:OE1	2.39	0.47
1:B:667:LEU:HD12	1:C:371:VAL:HG12	1.95	0.47
1:F:380:LEU:HD13	1:Q:434:ARG:HD2	1.96	0.47
1:K:367:PHE:CE2	1:K:369:ALA:HB3	2.49	0.47
1:O:367:PHE:CE2	1:O:369:ALA:HB3	2.49	0.47
1:R:485:ARG:HD3	1:U:581:ALA:O	2.15	0.47
1:S:367:PHE:CE2	1:S:369:ALA:HB3	2.49	0.47
1:S:434:ARG:HD2	1:U:380:LEU:HD13	1.96	0.47
1:X:371:VAL:HG12	1:Y:667:LEU:HD12	1.94	0.47
1:3:554:ASP:OD1	1:j:462:LYS:NZ	2.32	0.47
1:3:716:ASN:HB3	1:3:720:VAL:H	1.79	0.47
1:6:434:ARG:HD2	1:b:380:LEU:HD13	1.96	0.47
1:a:371:VAL:HG12	1:u:667:LEU:HD12	1.95	0.47
1:c:716:ASN:HB3	1:c:720:VAL:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:570:ASN:HD21	1:e:607:TRP:CB	2.27	0.47
1:f:554:ASP:HB2	1:f:557:LYS:HZ3	1.79	0.47
1:i:716:ASN:HB3	1:i:720:VAL:H	1.79	0.47
1:k:485:ARG:HD3	1:m:581:ALA:O	2.15	0.47
1:A:380:LEU:HD13	1:I:434:ARG:HD2	1.96	0.47
1:E:462:LYS:NZ	1:Q:554:ASP:OD1	2.33	0.47
1:G:350:TYR:OH	1:G:643:PRO:O	2.25	0.47
1:M:380:LEU:HD13	1:2:434:ARG:HD2	1.96	0.47
1:X:380:LEU:HD13	1:5:434:ARG:HD2	1.96	0.47
1:X:716:ASN:HB3	1:X:720:VAL:H	1.79	0.47
1:Y:367:PHE:CE2	1:Y:369:ALA:HB3	2.49	0.47
1:d:441:ASP:CG	1:e:550:ARG:HH12	2.16	0.47
1:f:252:TYR:OH	1:f:374:ILE:O	2.27	0.47
1:f:367:PHE:CE2	1:f:369:ALA:HB3	2.49	0.47
1:i:371:VAL:HG12	1:7:667:LEU:HD12	1.94	0.47
1:t:380:LEU:HD13	1:v:434:ARG:HD2	1.96	0.47
1:B:367:PHE:CE2	1:B:369:ALA:HB3	2.49	0.47
1:C:380:LEU:HD13	1:M:434:ARG:HD2	1.96	0.47
1:G:434:ARG:HD2	1:I:380:LEU:HD13	1.96	0.47
1:G:581:ALA:O	1:I:485:ARG:HD3	2.15	0.47
1:H:554:ASP:OD1	1:Y:462:LYS:NZ	2.32	0.47
1:K:350:TYR:OH	1:K:643:PRO:O	2.25	0.47
1:R:716:ASN:HB3	1:R:720:VAL:H	1.79	0.47
1:U:716:ASN:HB3	1:U:720:VAL:H	1.79	0.47
1:V:225:SER:HG	1:V:319:ASN:H	1.59	0.47
1:W:581:ALA:O	1:Y:485:ARG:HD3	2.15	0.47
1:2:570:ASN:HD21	1:2:607:TRP:CB	2.27	0.47
1:3:434:ARG:HD2	1:i:380:LEU:HD13	1.96	0.47
1:l:434:ARG:HD2	1:m:380:LEU:HD13	1.96	0.47
1:m:716:ASN:HB3	1:m:720:VAL:H	1.79	0.47
1:n:581:ALA:O	1:o:485:ARG:HD3	2.15	0.47
1:o:434:ARG:HD2	1:p:380:LEU:HD13	1.96	0.47
1:q:598:ASN:ND2	1:s:599:GLN:OE1	2.39	0.47
1:u:367:PHE:CE2	1:u:369:ALA:HB3	2.49	0.47
1:z:581:ALA:O	1:7:485:ARG:HD3	2.15	0.47
1:7:367:PHE:CE2	1:7:369:ALA:HB3	2.49	0.47
1:A:550:ARG:HH12	1:I:441:ASP:CG	2.16	0.47
1:C:367:PHE:CE2	1:C:369:ALA:HB3	2.49	0.47
1:C:550:ARG:HH12	1:M:441:ASP:CG	2.16	0.47
1:C:554:ASP:OD1	1:M:462:LYS:NZ	2.33	0.47
1:D:716:ASN:HB3	1:D:720:VAL:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:434:ARG:HD2	1:L:380:LEU:HD13	1.96	0.47
1:J:581:ALA:O	1:L:485:ARG:HD3	2.15	0.47
1:O:716:ASN:HB3	1:O:720:VAL:H	1.79	0.47
1:S:462:LYS:NZ	1:U:554:ASP:OD1	2.32	0.47
1:V:252:TYR:OH	1:V:374:ILE:O	2.27	0.47
1:Z:581:ALA:O	1:x:485:ARG:HD3	2.15	0.47
1:6:441:ASP:CG	1:b:550:ARG:HH12	2.16	0.47
1:a:367:PHE:CE2	1:a:369:ALA:HB3	2.49	0.47
1:d:581:ALA:O	1:e:485:ARG:HD3	2.15	0.47
1:e:716:ASN:HB3	1:e:720:VAL:H	1.79	0.47
1:k:716:ASN:HB3	1:k:720:VAL:H	1.79	0.47
1:l:441:ASP:CG	1:m:550:ARG:HH12	2.17	0.47
1:n:434:ARG:HD2	1:o:380:LEU:HD13	1.96	0.47
1:o:441:ASP:CG	1:p:550:ARG:HH12	2.16	0.47
1:t:225:SER:HG	1:t:319:ASN:H	1.58	0.47
1:t:598:ASN:ND2	1:v:599:GLN:OE1	2.39	0.47
1:y:716:ASN:HB3	1:y:720:VAL:H	1.79	0.47
1:A:581:ALA:O	1:G:485:ARG:HD3	2.14	0.47
1:B:225:SER:HG	1:B:319:ASN:H	1.59	0.47
1:D:380:LEU:HD13	1:P:434:ARG:HD2	1.96	0.47
1:D:485:ARG:HD3	1:P:581:ALA:O	2.15	0.47
1:E:485:ARG:HD3	1:F:581:ALA:O	2.15	0.47
1:H:716:ASN:HB3	1:H:720:VAL:H	1.79	0.47
1:I:367:PHE:CE2	1:I:369:ALA:HB3	2.49	0.47
1:K:485:ARG:HD3	1:8:581:ALA:O	2.15	0.47
1:O:485:ARG:HD3	1:h:581:ALA:O	2.15	0.47
1:P:570:ASN:HD21	1:P:607:TRP:CB	2.27	0.47
1:X:485:ARG:HD3	1:5:581:ALA:O	2.15	0.47
1:3:581:ALA:O	1:i:485:ARG:HD3	2.15	0.47
1:4:581:ALA:O	1:f:485:ARG:HD3	2.15	0.47
1:6:485:ARG:HD3	1:a:581:ALA:O	2.15	0.47
1:6:570:ASN:HD21	1:6:607:TRP:CB	2.27	0.47
1:6:598:ASN:ND2	1:a:599:GLN:OE1	2.39	0.47
1:c:441:ASP:CG	1:d:550:ARG:HH12	2.16	0.47
1:c:581:ALA:O	1:d:485:ARG:HD3	2.15	0.47
1:d:434:ARG:HD2	1:e:380:LEU:HD13	1.96	0.47
1:d:570:ASN:HD21	1:d:607:TRP:CB	2.27	0.47
1:f:716:ASN:HB3	1:f:720:VAL:H	1.79	0.47
1:g:350:TYR:OH	1:g:643:PRO:O	2.25	0.47
1:n:441:ASP:CG	1:o:550:ARG:HH12	2.16	0.47
1:o:367:PHE:CE2	1:o:369:ALA:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:252:TYR:OH	1:q:374:ILE:O	2.27	0.47
1:q:485:ARG:HD3	1:s:581:ALA:O	2.15	0.47
1:t:367:PHE:CE2	1:t:369:ALA:HB3	2.49	0.47
1:t:485:ARG:HD3	1:v:581:ALA:O	2.15	0.47
1:u:225:SER:HG	1:u:319:ASN:H	1.59	0.47
1:x:350:TYR:OH	1:x:643:PRO:O	2.25	0.47
1:y:550:ARG:HH12	1:7:441:ASP:CG	2.16	0.47
1:8:350:TYR:OH	1:8:643:PRO:O	2.25	0.47
1:H:581:ALA:O	1:W:485:ARG:HD3	2.15	0.47
1:K:598:ASN:ND2	1:8:599:GLN:OE1	2.39	0.47
1:L:367:PHE:CE2	1:L:369:ALA:HB3	2.49	0.47
1:N:581:ALA:O	1:P:485:ARG:HD3	2.15	0.47
1:Q:716:ASN:HB3	1:Q:720:VAL:H	1.79	0.47
1:R:434:ARG:HD2	1:S:380:LEU:HD13	1.96	0.47
1:S:284:PHE:CE1	1:S:679:VAL:HG21	2.50	0.47
1:V:511:LEU:HD21	1:X:568:THR:O	2.15	0.47
1:V:554:ASP:OD1	1:X:462:LYS:NZ	2.33	0.47
1:Y:716:ASN:HB3	1:Y:720:VAL:H	1.79	0.47
1:3:380:LEU:HD13	1:j:434:ARG:HD2	1.96	0.47
1:4:434:ARG:HD2	1:f:380:LEU:HD13	1.96	0.47
1:i:568:THR:O	1:j:511:LEU:HD21	2.15	0.47
1:j:252:TYR:OH	1:j:374:ILE:O	2.27	0.47
1:k:434:ARG:HD2	1:l:380:LEU:HD13	1.96	0.47
1:n:716:ASN:HB3	1:n:720:VAL:H	1.79	0.47
1:t:554:ASP:OD1	1:v:462:LYS:NZ	2.32	0.47
1:y:581:ALA:O	1:z:485:ARG:HD3	2.15	0.47
1:7:716:ASN:HB3	1:7:720:VAL:H	1.79	0.47
1:8:367:PHE:CE2	1:8:369:ALA:HB3	2.49	0.47
1:C:716:ASN:HB3	1:C:720:VAL:H	1.79	0.47
1:E:252:TYR:OH	1:E:374:ILE:O	2.27	0.47
1:E:380:LEU:HD13	1:F:434:ARG:HD2	1.96	0.47
1:E:598:ASN:ND2	1:F:599:GLN:OE1	2.39	0.47
1:G:716:ASN:HB3	1:G:720:VAL:H	1.79	0.47
1:H:367:PHE:CE2	1:H:369:ALA:HB3	2.49	0.47
1:S:441:ASP:CG	1:U:550:ARG:HH12	2.17	0.47
1:S:581:ALA:O	1:U:485:ARG:HD3	2.15	0.47
1:V:434:ARG:HD2	1:5:380:LEU:HD13	1.96	0.47
1:Z:550:ARG:HH12	1:w:441:ASP:CG	2.16	0.47
1:Z:599:GLN:OE1	1:x:598:ASN:ND2	2.39	0.47
1:1:441:ASP:CG	1:8:550:ARG:HH12	2.16	0.47
1:a:550:ARG:HH12	1:b:441:ASP:CG	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:284:PHE:CE1	1:l:679:VAL:HG21	2.50	0.47
1:q:380:LEU:HD13	1:s:434:ARG:HD2	1.96	0.47
1:s:284:PHE:CE1	1:s:679:VAL:HG21	2.50	0.47
1:C:511:LEU:HD21	1:M:568:THR:O	2.15	0.47
1:C:599:GLN:OE1	1:2:598:ASN:ND2	2.39	0.47
1:G:441:ASP:CG	1:I:550:ARG:HH12	2.16	0.47
1:K:434:ARG:HD2	1:1:380:LEU:HD13	1.96	0.47
1:M:550:ARG:HH12	1:2:441:ASP:CG	2.16	0.47
1:N:434:ARG:HD2	1:P:380:LEU:HD13	1.96	0.47
1:O:380:LEU:HD13	1:h:434:ARG:HD2	1.96	0.47
1:R:581:ALA:O	1:S:485:ARG:HD3	2.15	0.47
1:Z:367:PHE:CE2	1:Z:369:ALA:HB3	2.49	0.47
1:Z:485:ARG:HD3	1:w:581:ALA:O	2.15	0.47
1:a:380:LEU:HD13	1:b:434:ARG:HD2	1.97	0.47
1:a:485:ARG:HD3	1:b:581:ALA:O	2.15	0.47
1:f:570:ASN:HD21	1:f:607:TRP:CB	2.27	0.47
1:i:462:LYS:NZ	1:j:554:ASP:OD1	2.33	0.47
1:i:599:GLN:OE1	1:j:598:ASN:ND2	2.39	0.47
1:l:581:ALA:O	1:m:485:ARG:HD3	2.15	0.47
1:q:434:ARG:HD2	1:r:380:LEU:HD13	1.96	0.47
1:r:716:ASN:HB3	1:r:720:VAL:H	1.79	0.47
1:s:716:ASN:HB3	1:s:720:VAL:H	1.79	0.47
1:u:581:ALA:O	1:v:485:ARG:HD3	2.15	0.47
1:y:367:PHE:CE2	1:y:369:ALA:HB3	2.49	0.47
1:A:511:LEU:HD21	1:I:568:THR:O	2.15	0.46
1:B:581:ALA:O	1:J:485:ARG:HD3	2.15	0.46
1:F:284:PHE:CE1	1:F:679:VAL:HG21	2.50	0.46
1:G:225:SER:HG	1:G:319:ASN:H	1.59	0.46
1:H:550:ARG:HH12	1:Y:441:ASP:CG	2.16	0.46
1:M:284:PHE:CE1	1:M:679:VAL:HG21	2.50	0.46
1:N:441:ASP:CG	1:P:550:ARG:HH12	2.16	0.46
1:O:570:ASN:HD21	1:O:607:TRP:CB	2.27	0.46
1:V:284:PHE:CE1	1:V:679:VAL:HG21	2.50	0.46
1:Z:350:TYR:OH	1:Z:643:PRO:O	2.25	0.46
1:1:581:ALA:O	1:8:485:ARG:HD3	2.15	0.46
1:2:716:ASN:HB3	1:2:720:VAL:H	1.79	0.46
1:5:284:PHE:CE1	1:5:679:VAL:HG21	2.50	0.46
1:6:716:ASN:HB3	1:6:720:VAL:H	1.79	0.46
1:a:716:ASN:HB3	1:a:720:VAL:H	1.79	0.46
1:c:225:SER:HG	1:c:319:ASN:H	1.59	0.46
1:c:599:GLN:OE1	1:d:598:ASN:ND2	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:THR:O	1:G:511:LEU:HD21	2.16	0.46
1:B:568:THR:O	1:J:511:LEU:HD21	2.16	0.46
1:C:284:PHE:CE1	1:C:679:VAL:HG21	2.50	0.46
1:H:485:ARG:HD3	1:Y:581:ALA:O	2.15	0.46
1:K:511:LEU:HD21	1:8:568:THR:O	2.16	0.46
1:N:599:GLN:OE1	1:P:598:ASN:ND2	2.39	0.46
1:V:367:PHE:CE2	1:V:369:ALA:HB3	2.49	0.46
1:X:511:LEU:HD21	1:5:568:THR:O	2.15	0.46
1:Z:568:THR:O	1:x:511:LEU:HD21	2.15	0.46
1:1:716:ASN:HB3	1:1:720:VAL:H	1.79	0.46
1:3:284:PHE:CE1	1:3:679:VAL:HG21	2.50	0.46
1:a:284:PHE:CE1	1:a:679:VAL:HG21	2.50	0.46
1:b:284:PHE:CE1	1:b:679:VAL:HG21	2.50	0.46
1:c:434:ARG:HD2	1:d:380:LEU:HD13	1.96	0.46
1:h:284:PHE:CE1	1:h:679:VAL:HG21	2.50	0.46
1:j:284:PHE:CE1	1:j:679:VAL:HG21	2.50	0.46
1:j:367:PHE:CE2	1:j:369:ALA:HB3	2.49	0.46
1:k:581:ALA:O	1:l:485:ARG:HD3	2.15	0.46
1:n:511:LEU:HD21	1:p:568:THR:O	2.16	0.46
1:q:568:THR:O	1:r:511:LEU:HD21	2.15	0.46
1:u:568:THR:O	1:v:511:LEU:HD21	2.16	0.46
1:w:380:LEU:HD13	1:x:434:ARG:HD2	1.96	0.46
1:y:485:ARG:HD3	1:7:581:ALA:O	2.15	0.46
1:E:434:ARG:HD2	1:Q:380:LEU:HD13	1.96	0.46
1:F:716:ASN:HB3	1:F:720:VAL:H	1.79	0.46
1:H:434:ARG:HD2	1:W:380:LEU:HD13	1.96	0.46
1:L:284:PHE:CE1	1:L:679:VAL:HG21	2.50	0.46
1:Q:284:PHE:CE1	1:Q:679:VAL:HG21	2.50	0.46
1:R:284:PHE:CE1	1:R:679:VAL:HG21	2.50	0.46
1:T:511:LEU:HD21	1:f:568:THR:O	2.16	0.46
1:V:485:ARG:HD3	1:X:581:ALA:O	2.16	0.46
1:V:598:ASN:ND2	1:X:599:GLN:OE1	2.39	0.46
1:W:284:PHE:CE1	1:W:679:VAL:HG21	2.50	0.46
1:3:568:THR:O	1:i:511:LEU:HD21	2.15	0.46
1:4:284:PHE:CE1	1:4:679:VAL:HG21	2.50	0.46
1:4:441:ASP:CG	1:f:550:ARG:HH12	2.16	0.46
1:6:568:THR:O	1:b:511:LEU:HD21	2.15	0.46
1:c:284:PHE:CE1	1:c:679:VAL:HG21	2.50	0.46
1:g:581:ALA:O	1:h:485:ARG:HD3	2.15	0.46
1:i:284:PHE:CE1	1:i:679:VAL:HG21	2.50	0.46
1:i:581:ALA:O	1:j:485:ARG:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:225:SER:HG	1:n:319:ASN:H	1.59	0.46
1:n:599:GLN:OE1	1:o:598:ASN:ND2	2.39	0.46
1:r:284:PHE:CE1	1:r:679:VAL:HG21	2.50	0.46
1:u:716:ASN:HB3	1:u:720:VAL:H	1.79	0.46
1:y:434:ARG:HD2	1:z:380:LEU:HD13	1.96	0.46
1:A:320:ILE:O	1:A:407:THR:HG22	2.16	0.46
1:B:485:ARG:HD3	1:L:581:ALA:O	2.15	0.46
1:C:434:ARG:HD2	1:2:380:LEU:HD13	1.96	0.46
1:G:570:ASN:HD21	1:G:607:TRP:CB	2.27	0.46
1:H:284:PHE:CE1	1:H:679:VAL:HG21	2.50	0.46
1:I:320:ILE:O	1:I:407:THR:HG22	2.16	0.46
1:J:462:LYS:NZ	1:L:554:ASP:OD1	2.32	0.46
1:K:568:THR:O	1:1:511:LEU:HD21	2.16	0.46
1:M:511:LEU:HD21	1:2:568:THR:O	2.15	0.46
1:N:284:PHE:CE1	1:N:679:VAL:HG21	2.50	0.46
1:O:550:ARG:HH12	1:h:441:ASP:CG	2.16	0.46
1:O:568:THR:O	1:g:511:LEU:HD21	2.16	0.46
1:T:581:ALA:O	1:4:485:ARG:HD3	2.15	0.46
1:V:320:ILE:O	1:V:407:THR:HG22	2.16	0.46
1:X:284:PHE:CE1	1:X:679:VAL:HG21	2.50	0.46
1:Y:320:ILE:O	1:Y:407:THR:HG22	2.16	0.46
1:Z:511:LEU:HD21	1:w:568:THR:O	2.15	0.46
1:a:554:ASP:OD1	1:b:462:LYS:NZ	2.33	0.46
1:c:462:LYS:NZ	1:d:554:ASP:OD1	2.32	0.46
1:f:284:PHE:CE1	1:f:679:VAL:HG21	2.50	0.46
1:l:252:TYR:OH	1:l:374:ILE:O	2.27	0.46
1:n:485:ARG:HD3	1:p:581:ALA:O	2.15	0.46
1:o:568:THR:O	1:p:511:LEU:HD21	2.15	0.46
1:t:284:PHE:CE1	1:t:679:VAL:HG21	2.50	0.46
1:u:434:ARG:HD2	1:v:380:LEU:HD13	1.96	0.46
1:w:511:LEU:HD21	1:x:568:THR:O	2.16	0.46
1:w:716:ASN:HB3	1:w:720:VAL:H	1.79	0.46
1:x:320:ILE:O	1:x:407:THR:HG22	2.16	0.46
1:y:284:PHE:CE1	1:y:679:VAL:HG21	2.50	0.46
1:z:284:PHE:CE1	1:z:679:VAL:HG21	2.50	0.46
1:z:554:ASP:HB2	1:z:557:LYS:HZ3	1.81	0.46
1:B:284:PHE:CE1	1:B:679:VAL:HG21	2.50	0.46
1:B:434:ARG:HD2	1:J:380:LEU:HD13	1.96	0.46
1:B:716:ASN:HB3	1:B:720:VAL:H	1.79	0.46
1:H:320:ILE:O	1:H:407:THR:HG22	2.16	0.46
1:H:568:THR:O	1:W:511:LEU:HD21	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:320:ILE:O	1:K:407:THR:HG22	2.16	0.46
1:K:581:ALA:O	1:1:485:ARG:HD3	2.15	0.46
1:M:485:ARG:HD3	1:2:581:ALA:O	2.15	0.46
1:O:284:PHE:CE1	1:O:679:VAL:HG21	2.50	0.46
1:O:320:ILE:O	1:O:407:THR:HG22	2.16	0.46
1:R:598:ASN:ND2	1:U:599:GLN:OE1	2.39	0.46
1:6:581:ALA:O	1:b:485:ARG:HD3	2.15	0.46
1:a:511:LEU:HD21	1:b:568:THR:O	2.16	0.46
1:b:716:ASN:HB3	1:b:720:VAL:H	1.79	0.46
1:e:284:PHE:CE1	1:e:679:VAL:HG21	2.50	0.46
1:f:320:ILE:O	1:f:407:THR:HG22	2.16	0.46
1:j:320:ILE:O	1:j:407:THR:HG22	2.16	0.46
1:k:284:PHE:CE1	1:k:679:VAL:HG21	2.50	0.46
1:k:598:ASN:ND2	1:m:599:GLN:OE1	2.39	0.46
1:o:284:PHE:CE1	1:o:679:VAL:HG21	2.50	0.46
1:o:320:ILE:O	1:o:407:THR:HG22	2.16	0.46
1:p:320:ILE:O	1:p:407:THR:HG22	2.16	0.46
1:r:581:ALA:O	1:s:485:ARG:HD3	2.15	0.46
1:t:511:LEU:HD21	1:v:568:THR:O	2.16	0.46
1:t:568:THR:O	1:u:511:LEU:HD21	2.16	0.46
1:t:581:ALA:O	1:u:485:ARG:HD3	2.15	0.46
1:u:284:PHE:CE1	1:u:679:VAL:HG21	2.50	0.46
1:y:320:ILE:O	1:y:407:THR:HG22	2.16	0.46
1:7:320:ILE:O	1:7:407:THR:HG22	2.16	0.46
1:C:485:ARG:HD3	1:M:581:ALA:O	2.16	0.46
1:D:284:PHE:CE1	1:D:679:VAL:HG21	2.50	0.46
1:G:317:LEU:HD23	1:G:679:VAL:HG22	1.98	0.46
1:H:511:LEU:HD21	1:Y:568:THR:O	2.16	0.46
1:J:568:THR:O	1:L:511:LEU:HD21	2.16	0.46
1:M:716:ASN:HB3	1:M:720:VAL:H	1.79	0.46
1:R:252:TYR:OH	1:R:374:ILE:O	2.27	0.46
1:U:284:PHE:CE1	1:U:679:VAL:HG21	2.50	0.46
1:U:317:LEU:HD23	1:U:679:VAL:HG22	1.98	0.46
1:V:570:ASN:HD21	1:V:607:TRP:CB	2.27	0.46
1:Z:284:PHE:CE1	1:Z:679:VAL:HG21	2.50	0.46
1:1:568:THR:O	1:8:511:LEU:HD21	2.15	0.46
1:c:568:THR:O	1:d:511:LEU:HD21	2.16	0.46
1:d:568:THR:O	1:e:511:LEU:HD21	2.16	0.46
1:m:284:PHE:CE1	1:m:679:VAL:HG21	2.50	0.46
1:n:317:LEU:HD23	1:n:679:VAL:HG22	1.98	0.46
1:n:570:ASN:HD21	1:n:607:TRP:CB	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:716:ASN:HB3	1:q:720:VAL:H	1.79	0.46
1:w:485:ARG:HD3	1:x:581:ALA:O	2.15	0.46
1:y:568:THR:O	1:z:511:LEU:HD21	2.16	0.46
1:B:511:LEU:HD21	1:L:568:THR:O	2.16	0.46
1:D:511:LEU:HD21	1:P:568:THR:O	2.16	0.46
1:E:568:THR:O	1:Q:511:LEU:HD21	2.16	0.46
1:G:599:GLN:OE1	1:I:598:ASN:ND2	2.39	0.46
1:I:284:PHE:CE1	1:I:679:VAL:HG21	2.50	0.46
1:J:317:LEU:HD23	1:J:679:VAL:HG22	1.98	0.46
1:N:568:THR:O	1:P:511:LEU:HD21	2.16	0.46
1:T:320:ILE:O	1:T:407:THR:HG22	2.16	0.46
1:T:485:ARG:HD3	1:f:581:ALA:O	2.15	0.46
1:U:320:ILE:O	1:U:407:THR:HG22	2.16	0.46
1:1:284:PHE:CE1	1:1:679:VAL:HG21	2.50	0.46
1:2:225:SER:HG	1:2:319:ASN:H	1.59	0.46
1:3:462:LYS:NZ	1:i:554:ASP:OD1	2.32	0.46
1:4:317:LEU:HD23	1:4:679:VAL:HG22	1.98	0.46
1:d:284:PHE:CE1	1:d:679:VAL:HG21	2.50	0.46
1:j:350:TYR:OH	1:j:643:PRO:O	2.25	0.46
1:m:317:LEU:HD23	1:m:679:VAL:HG22	1.98	0.46
1:n:320:ILE:O	1:n:407:THR:HG22	2.16	0.46
1:q:317:LEU:HD23	1:q:679:VAL:HG22	1.98	0.46
1:q:511:LEU:HD21	1:s:568:THR:O	2.16	0.46
1:t:252:TYR:OH	1:t:374:ILE:O	2.27	0.46
1:w:284:PHE:CE1	1:w:679:VAL:HG21	2.50	0.46
1:y:511:LEU:HD21	1:7:568:THR:O	2.16	0.46
1:8:284:PHE:CE1	1:8:679:VAL:HG21	2.50	0.46
1:E:284:PHE:CE1	1:E:679:VAL:HG21	2.50	0.46
1:E:317:LEU:HD23	1:E:679:VAL:HG22	1.98	0.46
1:E:511:LEU:HD21	1:F:568:THR:O	2.16	0.46
1:E:581:ALA:O	1:Q:485:ARG:HD3	2.15	0.46
1:G:320:ILE:O	1:G:407:THR:HG22	2.16	0.46
1:O:317:LEU:HD23	1:O:679:VAL:HG22	1.98	0.46
1:O:581:ALA:O	1:g:485:ARG:HD3	2.15	0.46
1:P:284:PHE:CE1	1:P:679:VAL:HG21	2.50	0.46
1:Q:317:LEU:HB2	1:Q:411:PHE:HB3	1.98	0.46
1:S:252:TYR:OH	1:S:374:ILE:O	2.27	0.46
1:1:527:HIS:HD2	1:1:528:LYS:O	1.99	0.46
1:3:317:LEU:HD23	1:3:679:VAL:HG22	1.98	0.46
1:3:662:PHE:HA	1:m:373:MET:SD	2.56	0.46
1:4:599:GLN:OE1	1:f:598:ASN:ND2	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:317:LEU:HD23	1:5:679:VAL:HG22	1.98	0.46
1:g:320:ILE:O	1:g:407:THR:HG22	2.16	0.46
1:h:317:LEU:HD23	1:h:679:VAL:HG22	1.98	0.46
1:j:570:ASN:HD21	1:j:607:TRP:CB	2.27	0.46
1:m:320:ILE:O	1:m:407:THR:HG22	2.16	0.46
1:o:581:ALA:O	1:p:485:ARG:HD3	2.16	0.46
1:r:317:LEU:HD23	1:r:679:VAL:HG22	1.98	0.46
1:v:317:LEU:HD23	1:v:679:VAL:HG22	1.98	0.46
1:w:527:HIS:HD2	1:w:528:LYS:O	1.99	0.46
1:A:284:PHE:CE1	1:A:679:VAL:HG21	2.50	0.46
1:B:621:LYS:HB2	1:B:643:PRO:HG3	1.98	0.46
1:E:716:ASN:HB3	1:E:720:VAL:H	1.79	0.46
1:G:568:THR:O	1:I:511:LEU:HD21	2.16	0.46
1:H:317:LEU:HD23	1:H:679:VAL:HG22	1.98	0.46
1:K:317:LEU:HB2	1:K:411:PHE:HB3	1.98	0.46
1:N:462:LYS:NZ	1:P:554:ASP:OD1	2.32	0.46
1:O:511:LEU:HD21	1:h:568:THR:O	2.15	0.46
1:O:527:HIS:HD2	1:O:528:LYS:O	1.99	0.46
1:P:320:ILE:O	1:P:407:THR:HG22	2.16	0.46
1:Q:317:LEU:HD23	1:Q:679:VAL:HG22	1.98	0.46
1:U:373:MET:SD	1:5:662:PHE:HA	2.56	0.46
1:W:527:HIS:HD2	1:W:528:LYS:O	1.99	0.46
1:Y:527:HIS:HD2	1:Y:528:LYS:O	1.99	0.46
1:1:317:LEU:HD23	1:1:679:VAL:HG22	1.98	0.46
1:2:320:ILE:O	1:2:407:THR:HG22	2.16	0.46
1:4:527:HIS:HD2	1:4:528:LYS:O	1.99	0.46
1:6:284:PHE:CE1	1:6:679:VAL:HG21	2.50	0.46
1:6:320:ILE:O	1:6:407:THR:HG22	2.16	0.46
1:c:527:HIS:HD2	1:c:528:LYS:O	1.99	0.46
1:d:320:ILE:O	1:d:407:THR:HG22	2.16	0.46
1:f:317:LEU:HD23	1:f:679:VAL:HG22	1.98	0.46
1:f:527:HIS:HD2	1:f:528:LYS:O	1.99	0.46
1:g:284:PHE:CE1	1:g:679:VAL:HG21	2.50	0.46
1:k:568:THR:O	1:l:511:LEU:HD21	2.16	0.46
1:l:320:ILE:O	1:l:407:THR:HG22	2.16	0.46
1:n:284:PHE:CE1	1:n:679:VAL:HG21	2.50	0.46
1:n:568:THR:O	1:o:511:LEU:HD21	2.16	0.46
1:r:317:LEU:HB2	1:r:411:PHE:HB3	1.98	0.46
1:u:621:LYS:HB2	1:u:643:PRO:HG3	1.98	0.46
1:w:317:LEU:HD23	1:w:679:VAL:HG22	1.98	0.46
1:y:317:LEU:HD23	1:y:679:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:527:HIS:HD2	1:z:528:LYS:O	1.99	0.46
1:C:621:LYS:HB2	1:C:643:PRO:HG3	1.98	0.46
1:H:373:MET:SD	1:I:662:PHE:HA	2.56	0.46
1:M:317:LEU:HD23	1:M:679:VAL:HG22	1.98	0.46
1:N:527:HIS:HD2	1:N:528:LYS:O	1.99	0.46
1:O:373:MET:SD	1:P:662:PHE:HA	2.56	0.46
1:R:527:HIS:HD2	1:R:528:LYS:O	1.99	0.46
1:R:568:THR:O	1:S:511:LEU:HD21	2.16	0.46
1:S:320:ILE:O	1:S:407:THR:HG22	2.16	0.46
1:T:284:PHE:CE1	1:T:679:VAL:HG21	2.50	0.46
1:T:568:THR:O	1:4:511:LEU:HD21	2.16	0.46
1:V:317:LEU:HD23	1:V:679:VAL:HG22	1.98	0.46
1:V:350:TYR:OH	1:V:643:PRO:O	2.25	0.46
1:V:568:THR:O	1:5:511:LEU:HD21	2.16	0.46
1:W:427:ALA:O	1:W:733:THR:HA	2.16	0.46
1:2:284:PHE:CE1	1:2:679:VAL:HG21	2.50	0.46
1:2:317:LEU:HD23	1:2:679:VAL:HG22	1.98	0.46
1:4:568:THR:O	1:f:511:LEU:HD21	2.15	0.46
1:6:317:LEU:HD23	1:6:679:VAL:HG22	1.98	0.46
1:6:502:ALA:HB2	1:a:450:THR:HG23	1.98	0.46
1:a:621:LYS:HB2	1:a:643:PRO:HG3	1.98	0.46
1:b:317:LEU:HD23	1:b:679:VAL:HG22	1.98	0.46
1:c:511:LEU:HD21	1:e:568:THR:O	2.15	0.46
1:d:662:PHE:HA	1:f:373:MET:SD	2.56	0.46
1:h:527:HIS:HD2	1:h:528:LYS:O	1.99	0.46
1:j:317:LEU:HD23	1:j:679:VAL:HG22	1.98	0.46
1:k:527:HIS:HD2	1:k:528:LYS:O	1.99	0.46
1:o:662:PHE:HA	1:y:373:MET:SD	2.56	0.46
1:q:284:PHE:CE1	1:q:679:VAL:HG21	2.50	0.46
1:v:284:PHE:CE1	1:v:679:VAL:HG21	2.50	0.46
1:z:427:ALA:O	1:z:733:THR:HA	2.16	0.46
1:7:527:HIS:HD2	1:7:528:LYS:O	1.99	0.46
1:A:485:ARG:HD3	1:I:581:ALA:O	2.16	0.45
1:C:570:ASN:HD21	1:C:607:TRP:CB	2.27	0.45
1:D:568:THR:O	1:N:511:LEU:HD21	2.15	0.45
1:D:599:GLN:OE1	1:N:598:ASN:ND2	2.39	0.45
1:F:485:ARG:HD3	1:Q:581:ALA:O	2.16	0.45
1:G:284:PHE:CE1	1:G:679:VAL:HG21	2.50	0.45
1:G:427:ALA:O	1:G:733:THR:HA	2.17	0.45
1:J:284:PHE:CE1	1:J:679:VAL:HG21	2.50	0.45
1:J:621:LYS:HB2	1:J:643:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:252:TYR:OH	1:L:374:ILE:O	2.27	0.45
1:O:427:ALA:O	1:O:733:THR:HA	2.17	0.45
1:P:317:LEU:HD23	1:P:679:VAL:HG22	1.98	0.45
1:S:373:MET:SD	1:4:662:PHE:HA	2.56	0.45
1:V:380:LEU:HD13	1:X:434:ARG:HD2	1.96	0.45
1:W:568:THR:O	1:Y:511:LEU:HD21	2.15	0.45
1:X:317:LEU:HB2	1:X:411:PHE:HB3	1.98	0.45
1:Z:598:ASN:ND2	1:w:599:GLN:OE1	2.39	0.45
1:1:320:ILE:O	1:1:407:THR:HG22	2.16	0.45
1:3:511:LEU:HD21	1:j:568:THR:O	2.16	0.45
1:6:225:SER:HG	1:6:319:ASN:H	1.59	0.45
1:a:570:ASN:HD21	1:a:607:TRP:CB	2.27	0.45
1:f:427:ALA:O	1:f:733:THR:HA	2.17	0.45
1:g:568:THR:O	1:h:511:LEU:HD21	2.16	0.45
1:i:317:LEU:HB2	1:i:411:PHE:HB3	1.98	0.45
1:k:252:TYR:OH	1:k:374:ILE:O	2.27	0.45
1:k:317:LEU:HB2	1:k:411:PHE:HB3	1.98	0.45
1:p:284:PHE:CE1	1:p:679:VAL:HG21	2.50	0.45
1:q:581:ALA:O	1:r:485:ARG:HD3	2.15	0.45
1:v:621:LYS:HB2	1:v:643:PRO:HG3	1.98	0.45
1:x:317:LEU:HB2	1:x:411:PHE:HB3	1.98	0.45
1:z:320:ILE:O	1:z:407:THR:HG22	2.16	0.45
1:C:317:LEU:HB2	1:C:411:PHE:HB3	1.98	0.45
1:C:320:ILE:O	1:C:407:THR:HG22	2.16	0.45
1:D:581:ALA:O	1:N:485:ARG:HD3	2.15	0.45
1:G:527:HIS:HD2	1:G:528:LYS:O	1.99	0.45
1:K:284:PHE:CE1	1:K:679:VAL:HG21	2.50	0.45
1:N:317:LEU:HB2	1:N:411:PHE:HB3	1.99	0.45
1:O:598:ASN:ND2	1:h:599:GLN:OE1	2.39	0.45
1:R:317:LEU:HB2	1:R:411:PHE:HB3	1.98	0.45
1:R:427:ALA:O	1:R:733:THR:HA	2.16	0.45
1:S:317:LEU:HB2	1:S:411:PHE:HB3	1.98	0.45
1:U:427:ALA:O	1:U:733:THR:HA	2.17	0.45
1:U:527:HIS:HD2	1:U:528:LYS:O	1.99	0.45
1:X:320:ILE:O	1:X:407:THR:HG22	2.16	0.45
1:1:599:GLN:OE1	1:8:598:ASN:ND2	2.39	0.45
1:2:317:LEU:HB2	1:2:411:PHE:HB3	1.98	0.45
1:4:317:LEU:HB2	1:4:411:PHE:HB3	1.98	0.45
1:4:427:ALA:O	1:4:733:THR:HA	2.17	0.45
1:5:527:HIS:HD2	1:5:528:LYS:O	1.99	0.45
1:a:317:LEU:HB2	1:a:411:PHE:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:320:ILE:O	1:b:407:THR:HG22	2.16	0.45
1:c:317:LEU:HB2	1:c:411:PHE:HB3	1.99	0.45
1:d:317:LEU:HD23	1:d:679:VAL:HG22	1.98	0.45
1:h:317:LEU:HB2	1:h:411:PHE:HB3	1.98	0.45
1:h:427:ALA:O	1:h:733:THR:HA	2.17	0.45
1:h:662:PHE:HA	1:l:373:MET:SD	2.56	0.45
1:i:434:ARG:HD2	1:j:380:LEU:HD13	1.96	0.45
1:l:317:LEU:HB2	1:l:411:PHE:HB3	1.98	0.45
1:m:427:ALA:O	1:m:733:THR:HA	2.17	0.45
1:m:527:HIS:HD2	1:m:528:LYS:O	1.99	0.45
1:n:427:ALA:O	1:n:733:THR:HA	2.17	0.45
1:w:320:ILE:O	1:w:407:THR:HG22	2.16	0.45
1:z:568:THR:O	1:7:511:LEU:HD21	2.15	0.45
1:7:317:LEU:HB2	1:7:411:PHE:HB3	1.99	0.45
1:F:320:ILE:O	1:F:407:THR:HG22	2.16	0.45
1:F:511:LEU:HD21	1:Q:568:THR:O	2.15	0.45
1:J:320:ILE:O	1:J:407:THR:HG22	2.16	0.45
1:L:320:ILE:O	1:L:407:THR:HG22	2.16	0.45
1:M:320:ILE:O	1:M:407:THR:HG22	2.16	0.45
1:S:527:HIS:HD2	1:S:528:LYS:O	1.99	0.45
1:W:320:ILE:O	1:W:407:THR:HG22	2.16	0.45
1:Y:317:LEU:HB2	1:Y:411:PHE:HB3	1.99	0.45
1:3:317:LEU:HB2	1:3:411:PHE:HB3	1.98	0.45
1:3:527:HIS:HD2	1:3:528:LYS:O	1.99	0.45
1:5:317:LEU:HB2	1:5:411:PHE:HB3	1.98	0.45
1:6:317:LEU:HB2	1:6:411:PHE:HB3	1.99	0.45
1:6:380:LEU:HD13	1:a:434:ARG:HD2	1.97	0.45
1:b:570:ASN:HD21	1:b:607:TRP:CB	2.27	0.45
1:c:485:ARG:HD3	1:e:581:ALA:O	2.15	0.45
1:i:320:ILE:O	1:i:407:THR:HG22	2.16	0.45
1:k:427:ALA:O	1:k:733:THR:HA	2.16	0.45
1:l:427:ALA:O	1:l:733:THR:HA	2.17	0.45
1:l:662:PHE:HA	1:r:373:MET:SD	2.56	0.45
1:n:317:LEU:HB2	1:n:411:PHE:HB3	1.98	0.45
1:n:527:HIS:HD2	1:n:528:LYS:O	1.99	0.45
1:o:317:LEU:HD23	1:o:679:VAL:HG22	1.98	0.45
1:p:527:HIS:HD2	1:p:528:LYS:O	1.99	0.45
1:s:320:ILE:O	1:s:407:THR:HG22	2.16	0.45
1:t:320:ILE:O	1:t:407:THR:HG22	2.16	0.45
1:x:284:PHE:CE1	1:x:679:VAL:HG21	2.50	0.45
1:x:527:HIS:HD2	1:x:528:LYS:O	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:527:HIS:HD2	1:y:528:LYS:O	1.99	0.45
1:y:662:PHE:HA	1:8:373:MET:SD	2.56	0.45
1:A:527:HIS:HD2	1:A:528:LYS:O	1.99	0.45
1:C:450:THR:HG23	1:2:502:ALA:HB2	1.99	0.45
1:F:427:ALA:O	1:F:733:THR:HA	2.17	0.45
1:G:317:LEU:HB2	1:G:411:PHE:HB3	1.98	0.45
1:H:527:HIS:HD2	1:H:528:LYS:O	1.99	0.45
1:H:662:PHE:HA	1:Z:373:MET:SD	2.56	0.45
1:I:317:LEU:HD23	1:I:679:VAL:HG22	1.98	0.45
1:K:527:HIS:HD2	1:K:528:LYS:O	1.99	0.45
1:M:570:ASN:HD21	1:M:607:TRP:CB	2.27	0.45
1:N:373:MET:SD	1:g:662:PHE:HA	2.56	0.45
1:Q:427:ALA:O	1:Q:733:THR:HA	2.16	0.45
1:Q:621:LYS:HB2	1:Q:643:PRO:HG3	1.98	0.45
1:Q:707:LYS:H	1:Q:707:LYS:HG3	1.47	0.45
1:R:511:LEU:HD21	1:U:568:THR:O	2.16	0.45
1:R:662:PHE:HA	1:V:373:MET:SD	2.57	0.45
1:S:427:ALA:O	1:S:733:THR:HA	2.17	0.45
1:T:427:ALA:O	1:T:733:THR:HA	2.17	0.45
1:T:527:HIS:HD2	1:T:528:LYS:O	1.99	0.45
1:T:662:PHE:HA	1:c:373:MET:SD	2.56	0.45
1:W:317:LEU:HD23	1:W:679:VAL:HG22	1.98	0.45
1:Z:317:LEU:HB2	1:Z:411:PHE:HB3	1.98	0.45
1:Z:317:LEU:HD23	1:Z:679:VAL:HG22	1.98	0.45
1:6:427:ALA:O	1:6:733:THR:HA	2.17	0.45
1:e:598:ASN:ND2	1:e:599:GLN:OE1	2.39	0.45
1:e:320:ILE:O	1:e:407:THR:HG22	2.16	0.45
1:e:527:HIS:HD2	1:e:528:LYS:O	1.99	0.45
1:g:427:ALA:O	1:g:733:THR:HA	2.17	0.45
1:i:427:ALA:O	1:i:733:THR:HA	2.16	0.45
1:k:511:LEU:HD21	1:m:568:THR:O	2.16	0.45
1:l:527:HIS:HD2	1:l:528:LYS:O	1.99	0.45
1:n:462:LYS:NZ	1:o:554:ASP:OD1	2.33	0.45
1:r:320:ILE:O	1:r:407:THR:HG22	2.16	0.45
1:r:621:LYS:HB2	1:r:643:PRO:HG3	1.98	0.45
1:v:320:ILE:O	1:v:407:THR:HG22	2.16	0.45
1:8:317:LEU:HB2	1:8:411:PHE:HB3	1.98	0.45
1:A:373:MET:SD	1:E:662:PHE:HA	2.56	0.45
1:A:570:ASN:HD21	1:A:607:TRP:CB	2.27	0.45
1:B:317:LEU:HD23	1:B:679:VAL:HG22	1.98	0.45
1:B:527:HIS:HD2	1:B:528:LYS:O	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:317:LEU:HD23	1:C:679:VAL:HG22	1.98	0.45
1:C:502:ALA:HB2	1:M:450:THR:HG23	1.99	0.45
1:D:320:ILE:O	1:D:407:THR:HG22	2.16	0.45
1:D:527:HIS:HD2	1:D:528:LYS:O	1.99	0.45
1:E:320:ILE:O	1:E:407:THR:HG22	2.16	0.45
1:F:317:LEU:HD23	1:F:679:VAL:HG22	1.98	0.45
1:N:427:ALA:O	1:N:733:THR:HA	2.16	0.45
1:Q:320:ILE:O	1:Q:407:THR:HG22	2.16	0.45
1:T:373:MET:SD	1:U:662:PHE:HA	2.56	0.45
1:V:621:LYS:HB2	1:V:643:PRO:HG3	1.98	0.45
1:X:427:ALA:O	1:X:733:THR:HA	2.16	0.45
1:X:621:LYS:HB2	1:X:643:PRO:HG3	1.98	0.45
1:Z:320:ILE:O	1:Z:407:THR:HG22	2.16	0.45
1:4:252:TYR:OH	1:4:374:ILE:O	2.27	0.45
1:a:317:LEU:HD23	1:a:679:VAL:HG22	1.98	0.45
1:a:320:ILE:O	1:a:407:THR:HG22	2.16	0.45
1:a:398:GLU:HB2	1:e:368:PRO:HB2	1.99	0.45
1:a:502:ALA:HB2	1:b:450:THR:HG23	1.99	0.45
1:g:373:MET:SD	1:m:662:PHE:HA	2.56	0.45
1:i:621:LYS:HB2	1:i:643:PRO:HG3	1.98	0.45
1:j:373:MET:SD	1:k:662:PHE:HA	2.56	0.45
1:j:621:LYS:HB2	1:j:643:PRO:HG3	1.98	0.45
1:l:568:THR:O	1:m:511:LEU:HD21	2.16	0.45
1:r:427:ALA:O	1:r:733:THR:HA	2.17	0.45
1:r:568:THR:O	1:s:511:LEU:HD21	2.16	0.45
1:s:427:ALA:O	1:s:733:THR:HA	2.17	0.45
1:t:317:LEU:HB2	1:t:411:PHE:HB3	1.98	0.45
1:u:317:LEU:HD23	1:u:679:VAL:HG22	1.98	0.45
1:u:527:HIS:HD2	1:u:528:LYS:O	1.99	0.45
1:z:317:LEU:HD23	1:z:679:VAL:HG22	1.98	0.45
1:7:284:PHE:CE1	1:7:679:VAL:HG21	2.50	0.45
1:8:317:LEU:HD23	1:8:679:VAL:HG22	1.98	0.45
1:8:320:ILE:O	1:8:407:THR:HG22	2.16	0.45
1:H:441:ASP:CG	1:W:550:ARG:HH12	2.16	0.45
1:J:527:HIS:HD2	1:J:528:LYS:O	1.99	0.45
1:L:317:LEU:HB2	1:L:411:PHE:HB3	1.98	0.45
1:L:373:MET:SD	1:2:662:PHE:HA	2.56	0.45
1:M:373:MET:SD	1:N:662:PHE:HA	2.57	0.45
1:N:320:ILE:O	1:N:407:THR:HG22	2.16	0.45
1:R:621:LYS:HB2	1:R:643:PRO:HG3	1.98	0.45
1:S:568:THR:O	1:U:511:LEU:HD21	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:317:LEU:HB2	1:T:411:PHE:HB3	1.98	0.45
1:X:527:HIS:HD2	1:X:528:LYS:O	1.99	0.45
1:Y:284:PHE:CE1	1:Y:679:VAL:HG21	2.50	0.45
1:Y:427:ALA:O	1:Y:733:THR:HA	2.16	0.45
1:Z:427:ALA:O	1:Z:733:THR:HA	2.17	0.45
1:2:427:ALA:O	1:2:733:THR:HA	2.17	0.45
1:3:320:ILE:O	1:3:407:THR:HG22	2.16	0.45
1:6:662:PHE:HA	1:t:373:MET:SD	2.56	0.45
1:b:373:MET:SD	1:c:662:PHE:HA	2.57	0.45
1:c:320:ILE:O	1:c:407:THR:HG22	2.16	0.45
1:c:427:ALA:O	1:c:733:THR:HA	2.16	0.45
1:g:317:LEU:HB2	1:g:411:PHE:HB3	1.98	0.45
1:g:450:THR:HG23	1:h:502:ALA:HB2	1.99	0.45
1:g:527:HIS:HD2	1:g:528:LYS:O	1.99	0.45
1:k:550:ARG:HH12	1:m:441:ASP:CG	2.17	0.45
1:k:621:LYS:HB2	1:k:643:PRO:HG3	1.98	0.45
1:m:317:LEU:HB2	1:m:411:PHE:HB3	1.98	0.45
1:p:570:ASN:HD21	1:p:607:TRP:CB	2.27	0.45
1:q:320:ILE:O	1:q:407:THR:HG22	2.16	0.45
1:s:317:LEU:HD23	1:s:679:VAL:HG22	1.98	0.45
1:u:350:TYR:OH	1:u:643:PRO:O	2.25	0.45
1:y:441:ASP:CG	1:z:550:ARG:HH12	2.16	0.45
1:z:599:GLN:OE1	1:7:598:ASN:ND2	2.39	0.45
1:A:427:ALA:O	1:A:733:THR:HA	2.17	0.45
1:A:662:PHE:HA	1:B:373:MET:SD	2.56	0.45
1:B:662:PHE:HA	1:C:373:MET:SD	2.57	0.45
1:D:427:ALA:O	1:D:733:THR:HA	2.16	0.45
1:G:450:THR:HG23	1:I:502:ALA:HB2	1.99	0.45
1:H:427:ALA:O	1:H:733:THR:HA	2.17	0.45
1:H:450:THR:HG23	1:W:502:ALA:HB2	1.99	0.45
1:J:317:LEU:HB2	1:J:411:PHE:HB3	1.98	0.45
1:J:373:MET:SD	1:1:662:PHE:HA	2.57	0.45
1:L:317:LEU:HD23	1:L:679:VAL:HG22	1.98	0.45
1:M:598:ASN:ND2	1:2:599:GLN:OE1	2.39	0.45
1:Q:350:TYR:OH	1:Q:643:PRO:O	2.25	0.45
1:Q:527:HIS:HD2	1:Q:528:LYS:O	1.99	0.45
1:T:450:THR:HG23	1:4:502:ALA:HB2	1.99	0.45
1:U:317:LEU:HB2	1:U:411:PHE:HB3	1.98	0.45
1:V:427:ALA:O	1:V:733:THR:HA	2.17	0.45
1:5:320:ILE:O	1:5:407:THR:HG22	2.16	0.45
1:a:427:ALA:O	1:a:733:THR:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:527:HIS:HD2	1:a:528:LYS:O	1.99	0.45
1:k:320:ILE:O	1:k:407:THR:HG22	2.16	0.45
1:k:599:GLN:OE1	1:l:598:ASN:ND2	2.39	0.45
1:m:350:TYR:OH	1:m:643:PRO:O	2.25	0.45
1:p:373:MET:SD	1:q:662:PHE:HA	2.57	0.45
1:r:527:HIS:HD2	1:r:528:LYS:O	1.99	0.45
1:t:317:LEU:HD23	1:t:679:VAL:HG22	1.98	0.45
1:t:427:ALA:O	1:t:733:THR:HA	2.17	0.45
1:v:317:LEU:HB2	1:v:411:PHE:HB3	1.98	0.45
1:v:373:MET:SD	1:w:662:PHE:HA	2.56	0.45
1:v:527:HIS:HD2	1:v:528:LYS:O	1.99	0.45
1:w:621:LYS:HB2	1:w:643:PRO:HG3	1.98	0.45
1:y:450:THR:HG23	1:z:502:ALA:HB2	1.99	0.45
1:7:427:ALA:O	1:7:733:THR:HA	2.16	0.45
1:8:427:ALA:O	1:8:733:THR:HA	2.17	0.45
1:C:427:ALA:O	1:C:733:THR:HA	2.17	0.45
1:C:527:HIS:HD2	1:C:528:LYS:O	1.99	0.45
1:G:462:LYS:NZ	1:I:554:ASP:OD1	2.33	0.45
1:H:281:TRP:NE1	1:H:397:LEU:HB2	2.32	0.45
1:I:317:LEU:HB2	1:I:411:PHE:HB3	1.98	0.45
1:I:373:MET:SD	1:J:662:PHE:HA	2.57	0.45
1:L:427:ALA:O	1:L:733:THR:HA	2.17	0.45
1:P:317:LEU:HB2	1:P:411:PHE:HB3	1.98	0.45
1:Q:373:MET:SD	1:S:662:PHE:HA	2.57	0.45
1:R:599:GLN:OE1	1:S:598:ASN:ND2	2.39	0.45
1:S:317:LEU:HD23	1:S:679:VAL:HG22	1.98	0.45
1:V:502:ALA:HB2	1:X:450:THR:HG23	1.99	0.45
1:Z:662:PHE:HA	1:1:373:MET:SD	2.57	0.45
1:1:621:LYS:HB2	1:1:643:PRO:HG3	1.98	0.45
1:2:527:HIS:HD2	1:2:528:LYS:O	1.99	0.45
1:4:320:ILE:O	1:4:407:THR:HG22	2.16	0.45
1:6:527:HIS:HD2	1:6:528:LYS:O	1.99	0.45
1:d:373:MET:SD	1:r:662:PHE:HA	2.57	0.45
1:h:252:TYR:OH	1:h:374:ILE:O	2.27	0.45
1:i:450:THR:HG23	1:j:502:ALA:HB2	1.99	0.45
1:i:527:HIS:HD2	1:i:528:LYS:O	2.00	0.45
1:j:427:ALA:O	1:j:733:THR:HA	2.17	0.45
1:k:373:MET:SD	1:s:662:PHE:HA	2.56	0.45
1:k:502:ALA:HB2	1:m:450:THR:HG23	1.99	0.45
1:n:450:THR:HG23	1:o:502:ALA:HB2	1.99	0.45
1:n:662:PHE:HA	1:s:373:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:427:ALA:O	1:y:733:THR:HA	2.17	0.45
1:8:570:ASN:HD21	1:8:607:TRP:CB	2.27	0.45
1:A:281:TRP:NE1	1:A:397:LEU:HB2	2.32	0.45
1:B:281:TRP:NE1	1:B:397:LEU:HB2	2.32	0.45
1:B:320:ILE:O	1:B:407:THR:HG22	2.16	0.45
1:F:373:MET:SD	1:G:662:PHE:HA	2.57	0.45
1:F:527:HIS:HD2	1:F:528:LYS:O	1.99	0.45
1:H:502:ALA:HB2	1:Y:450:THR:HG23	1.99	0.45
1:I:427:ALA:O	1:I:733:THR:HA	2.16	0.45
1:I:527:HIS:HD2	1:I:528:LYS:O	1.99	0.45
1:K:373:MET:SD	1:L:662:PHE:HA	2.56	0.45
1:K:441:ASP:CG	1:I:550:ARG:HH12	2.16	0.45
1:K:450:THR:HG23	1:I:502:ALA:HB2	1.99	0.45
1:M:621:LYS:HB2	1:M:643:PRO:HG3	1.98	0.45
1:O:281:TRP:NE1	1:O:397:LEU:HB2	2.32	0.45
1:O:502:ALA:HB2	1:h:450:THR:HG23	1.99	0.45
1:P:373:MET:SD	1:Q:662:PHE:HA	2.56	0.45
1:P:621:LYS:HB2	1:P:643:PRO:HG3	1.98	0.45
1:R:320:ILE:O	1:R:407:THR:HG22	2.16	0.45
1:R:502:ALA:HB2	1:U:450:THR:HG23	1.99	0.45
1:1:281:TRP:NE1	1:1:397:LEU:HB2	2.32	0.45
1:2:281:TRP:NE1	1:2:397:LEU:HB2	2.32	0.45
1:4:450:THR:HG23	1:f:502:ALA:HB2	1.99	0.45
1:6:281:TRP:NE1	1:6:397:LEU:HB2	2.32	0.45
1:b:621:LYS:HB2	1:b:643:PRO:HG3	1.99	0.45
1:d:317:LEU:HB2	1:d:411:PHE:HB3	1.98	0.45
1:e:621:LYS:HB2	1:e:643:PRO:HG3	1.98	0.45
1:f:281:TRP:NE1	1:f:397:LEU:HB2	2.32	0.45
1:l:317:LEU:HD23	1:l:679:VAL:HG22	1.98	0.45
1:o:317:LEU:HB2	1:o:411:PHE:HB3	1.98	0.45
1:o:373:MET:SD	1:v:662:PHE:HA	2.57	0.45
1:o:527:HIS:HD2	1:o:528:LYS:O	1.99	0.45
1:p:281:TRP:NE1	1:p:397:LEU:HB2	2.32	0.45
1:p:427:ALA:O	1:p:733:THR:HA	2.17	0.45
1:s:527:HIS:HD2	1:s:528:LYS:O	1.99	0.45
1:t:662:PHE:HA	1:x:373:MET:SD	2.56	0.45
1:u:320:ILE:O	1:u:407:THR:HG22	2.16	0.45
1:w:281:TRP:NE1	1:w:397:LEU:HB2	2.32	0.45
1:w:373:MET:SD	1:8:662:PHE:HA	2.57	0.45
1:y:281:TRP:NE1	1:y:397:LEU:HB2	2.32	0.45
1:y:621:LYS:HB2	1:y:643:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:TYR:OH	1:B:643:PRO:O	2.25	0.45
1:D:317:LEU:HD23	1:D:679:VAL:HG22	1.98	0.45
1:D:621:LYS:HB2	1:D:643:PRO:HG3	1.98	0.45
1:D:662:PHE:HA	1:E:373:MET:SD	2.57	0.45
1:F:662:PHE:HA	1:R:373:MET:SD	2.57	0.45
1:G:281:TRP:NE1	1:G:397:LEU:HB2	2.32	0.45
1:H:621:LYS:HB2	1:H:643:PRO:HG3	1.98	0.45
1:J:252:TYR:OH	1:J:374:ILE:O	2.27	0.45
1:K:483:SER:HB2	1:K:524:MET:HE3	1.99	0.45
1:M:427:ALA:O	1:M:733:THR:HA	2.16	0.45
1:N:570:ASN:HD21	1:N:607:TRP:CB	2.27	0.45
1:R:550:ARG:HH12	1:U:441:ASP:CG	2.17	0.45
1:U:621:LYS:HB2	1:U:643:PRO:HG3	1.98	0.45
1:V:450:THR:HG23	1:5:502:ALA:HB2	1.99	0.45
1:W:599:GLN:OE1	1:Y:598:ASN:ND2	2.39	0.45
1:Y:317:LEU:HD23	1:Y:679:VAL:HG22	1.98	0.45
1:1:317:LEU:HB2	1:1:411:PHE:HB3	1.98	0.45
1:3:502:ALA:HB2	1:j:450:THR:HG23	1.99	0.45
1:d:427:ALA:O	1:d:733:THR:HA	2.16	0.45
1:d:621:LYS:HB2	1:d:643:PRO:HG3	1.98	0.45
1:e:427:ALA:O	1:e:733:THR:HA	2.17	0.45
1:e:662:PHE:HA	1:q:373:MET:SD	2.57	0.45
1:g:297:ASP:OD2	1:m:399:TYR:OH	2.35	0.45
1:h:320:ILE:O	1:h:407:THR:HG22	2.16	0.45
1:j:662:PHE:HA	1:z:373:MET:SD	2.57	0.45
1:k:350:TYR:OH	1:k:643:PRO:O	2.25	0.45
1:m:621:LYS:HB2	1:m:643:PRO:HG3	1.98	0.45
1:n:252:TYR:OH	1:n:374:ILE:O	2.27	0.45
1:o:427:ALA:O	1:o:733:THR:HA	2.16	0.45
1:o:462:LYS:NZ	1:p:554:ASP:OD1	2.33	0.45
1:p:662:PHE:HA	1:u:373:MET:SD	2.57	0.45
1:w:502:ALA:HB2	1:x:450:THR:HG23	1.99	0.45
1:x:483:SER:HB2	1:x:524:MET:HE3	1.99	0.45
1:y:502:ALA:HB2	1:7:450:THR:HG23	1.99	0.45
1:A:621:LYS:HB2	1:A:643:PRO:HG3	1.98	0.44
1:B:502:ALA:HB2	1:L:450:THR:HG23	1.99	0.44
1:E:450:THR:HG23	1:Q:502:ALA:HB2	1.99	0.44
1:G:373:MET:SD	1:W:662:PHE:HA	2.57	0.44
1:Q:281:TRP:NE1	1:Q:397:LEU:HB2	2.32	0.44
1:T:297:ASP:OD2	1:U:399:TYR:OH	2.35	0.44
1:T:317:LEU:HD23	1:T:679:VAL:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:281:TRP:NE1	1:U:397:LEU:HB2	2.32	0.44
1:V:662:PHE:HA	1:W:373:MET:SD	2.57	0.44
1:Y:373:MET:SD	1:x:662:PHE:HA	2.56	0.44
1:Z:570:ASN:HD21	1:Z:607:TRP:CB	2.27	0.44
1:3:427:ALA:O	1:3:733:THR:HA	2.17	0.44
1:4:621:LYS:HB2	1:4:643:PRO:HG3	1.98	0.44
1:6:599:GLN:OE1	1:b:598:ASN:ND2	2.39	0.44
1:a:368:PRO:HB2	1:u:398:GLU:HB2	1.99	0.44
1:e:317:LEU:HD23	1:e:679:VAL:HG22	1.98	0.44
1:i:373:MET:SD	1:7:662:PHE:HA	2.57	0.44
1:m:281:TRP:NE1	1:m:397:LEU:HB2	2.32	0.44
1:n:281:TRP:NE1	1:n:397:LEU:HB2	2.32	0.44
1:t:450:THR:HG23	1:u:502:ALA:HB2	1.99	0.44
1:u:281:TRP:NE1	1:u:397:LEU:HB2	2.32	0.44
1:w:317:LEU:HB2	1:w:411:PHE:HB3	1.98	0.44
1:7:317:LEU:HD23	1:7:679:VAL:HG22	1.98	0.44
1:B:398:GLU:HB2	1:C:368:PRO:HB2	2.00	0.44
1:C:568:THR:O	1:2:511:LEU:HD21	2.16	0.44
1:D:707:LYS:H	1:D:707:LYS:HG3	1.47	0.44
1:F:281:TRP:NE1	1:F:397:LEU:HB2	2.32	0.44
1:F:297:ASP:OD2	1:G:399:TYR:OH	2.36	0.44
1:G:368:PRO:HB2	1:W:398:GLU:HB2	1.99	0.44
1:O:399:TYR:OH	1:4:297:ASP:OD2	2.36	0.44
1:O:621:LYS:HB2	1:O:643:PRO:HG3	1.98	0.44
1:O:662:PHE:HA	1:4:373:MET:SD	2.57	0.44
1:P:297:ASP:OD2	1:Q:399:TYR:OH	2.35	0.44
1:Q:368:PRO:HB2	1:S:398:GLU:HB2	1.99	0.44
1:S:483:SER:HB2	1:S:524:MET:HE3	2.00	0.44
1:S:570:ASN:HD21	1:S:607:TRP:CB	2.27	0.44
1:V:527:HIS:HD2	1:V:528:LYS:O	1.99	0.44
1:X:373:MET:SD	1:Y:662:PHE:HA	2.57	0.44
1:Z:450:THR:HG23	1:x:502:ALA:HB2	1.99	0.44
1:Z:621:LYS:HB2	1:Z:643:PRO:HG3	1.98	0.44
1:1:483:SER:HB2	1:1:524:MET:HE3	2.00	0.44
1:2:483:SER:HB2	1:2:524:MET:HE3	2.00	0.44
1:3:621:LYS:HB2	1:3:643:PRO:HG3	1.98	0.44
1:4:590:GLN:HG2	1:f:497:ASN:ND2	2.33	0.44
1:5:427:ALA:O	1:5:733:THR:HA	2.17	0.44
1:6:483:SER:HB2	1:6:524:MET:HE3	2.00	0.44
1:a:373:MET:SD	1:u:662:PHE:HA	2.57	0.44
1:b:317:LEU:HB2	1:b:411:PHE:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:427:ALA:O	1:b:733:THR:HA	2.17	0.44
1:f:399:TYR:OH	1:h:297:ASP:OD2	2.36	0.44
1:f:621:LYS:HB2	1:f:643:PRO:HG3	1.98	0.44
1:g:317:LEU:HD23	1:g:679:VAL:HG22	1.98	0.44
1:g:621:LYS:HB2	1:g:643:PRO:HG3	1.98	0.44
1:h:621:LYS:HB2	1:h:643:PRO:HG3	1.98	0.44
1:j:281:TRP:NE1	1:j:397:LEU:HB2	2.32	0.44
1:l:483:SER:HB2	1:l:524:MET:HE3	2.00	0.44
1:n:399:TYR:OH	1:s:297:ASP:OD2	2.36	0.44
1:p:621:LYS:HB2	1:p:643:PRO:HG3	1.98	0.44
1:q:527:HIS:HD2	1:q:528:LYS:O	1.99	0.44
1:r:281:TRP:NE1	1:r:397:LEU:HB2	2.32	0.44
1:s:281:TRP:NE1	1:s:397:LEU:HB2	2.32	0.44
1:w:350:TYR:OH	1:w:643:PRO:O	2.25	0.44
1:w:483:SER:HB2	1:w:524:MET:HE3	2.00	0.44
1:w:550:ARG:HH12	1:x:441:ASP:CG	2.16	0.44
1:z:450:THR:HG23	1:7:502:ALA:HB2	1.99	0.44
1:7:621:LYS:HB2	1:7:643:PRO:HG3	1.98	0.44
1:B:317:LEU:HB2	1:B:411:PHE:HB3	1.98	0.44
1:E:281:TRP:NE1	1:E:397:LEU:HB2	2.32	0.44
1:E:621:LYS:HB2	1:E:643:PRO:HG3	1.98	0.44
1:K:502:ALA:HB2	1:8:450:THR:HG23	1.99	0.44
1:K:662:PHE:HA	1:7:373:MET:SD	2.56	0.44
1:M:317:LEU:HB2	1:M:411:PHE:HB3	1.98	0.44
1:O:497:ASN:ND2	1:h:590:GLN:HG2	2.33	0.44
1:P:252:TYR:OH	1:P:374:ILE:O	2.27	0.44
1:P:427:ALA:O	1:P:733:THR:HA	2.17	0.44
1:R:281:TRP:NE1	1:R:397:LEU:HB2	2.32	0.44
1:V:281:TRP:NE1	1:V:397:LEU:HB2	2.32	0.44
1:W:450:THR:HG23	1:Y:502:ALA:HB2	1.99	0.44
1:W:483:SER:HB2	1:W:524:MET:HE3	2.00	0.44
1:W:590:GLN:HG2	1:Y:497:ASN:ND2	2.33	0.44
1:W:621:LYS:HB2	1:W:643:PRO:HG3	1.98	0.44
1:X:502:ALA:HB2	1:5:450:THR:HG23	2.00	0.44
1:3:281:TRP:NE1	1:3:397:LEU:HB2	2.32	0.44
1:c:317:LEU:HD23	1:c:679:VAL:HG22	1.98	0.44
1:c:502:ALA:HB2	1:e:450:THR:HG23	1.99	0.44
1:c:570:ASN:HD21	1:c:607:TRP:CB	2.27	0.44
1:i:252:TYR:OH	1:i:374:ILE:O	2.27	0.44
1:j:317:LEU:HB2	1:j:411:PHE:HB3	1.98	0.44
1:j:527:HIS:HD2	1:j:528:LYS:O	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:398:GLU:HB2	1:r:368:PRO:HB2	1.99	0.44
1:n:368:PRO:HB2	1:z:398:GLU:HB2	1.99	0.44
1:n:373:MET:SD	1:z:662:PHE:HA	2.57	0.44
1:q:599:GLN:OE1	1:r:598:ASN:ND2	2.39	0.44
1:r:450:THR:HG23	1:s:502:ALA:HB2	1.99	0.44
1:r:483:SER:HB2	1:r:524:MET:HE3	2.00	0.44
1:s:483:SER:HB2	1:s:524:MET:HE3	2.00	0.44
1:t:527:HIS:HD2	1:t:528:LYS:O	1.99	0.44
1:v:483:SER:HB2	1:v:524:MET:HE3	2.00	0.44
1:x:427:ALA:O	1:x:733:THR:HA	2.16	0.44
1:z:590:GLN:HG2	1:7:497:ASN:ND2	2.33	0.44
1:z:621:LYS:HB2	1:z:643:PRO:HG3	1.98	0.44
1:8:621:LYS:HB2	1:8:643:PRO:HG3	1.98	0.44
1:B:427:ALA:O	1:B:733:THR:HA	2.16	0.44
1:D:450:THR:HG23	1:N:502:ALA:HB2	1.99	0.44
1:D:483:SER:HB2	1:D:524:MET:HE3	2.00	0.44
1:E:527:HIS:HD2	1:E:528:LYS:O	1.99	0.44
1:F:317:LEU:HB2	1:F:411:PHE:HB3	1.98	0.44
1:F:368:PRO:HB2	1:G:398:GLU:HB2	2.00	0.44
1:F:399:TYR:OH	1:R:297:ASP:OD2	2.36	0.44
1:F:483:SER:HB2	1:F:524:MET:HE3	2.00	0.44
1:G:252:TYR:OH	1:G:374:ILE:O	2.27	0.44
1:H:399:TYR:OH	1:Z:297:ASP:OD2	2.35	0.44
1:J:483:SER:HB2	1:J:524:MET:HE3	2.00	0.44
1:L:527:HIS:HD2	1:L:528:LYS:O	1.99	0.44
1:N:317:LEU:HD23	1:N:679:VAL:HG22	1.98	0.44
1:R:350:TYR:OH	1:R:643:PRO:O	2.25	0.44
1:T:399:TYR:OH	1:c:297:ASP:OD2	2.36	0.44
1:T:621:LYS:HB2	1:T:643:PRO:HG3	1.98	0.44
1:V:317:LEU:HB2	1:V:411:PHE:HB3	1.98	0.44
1:W:281:TRP:NE1	1:W:397:LEU:HB2	2.32	0.44
1:X:398:GLU:HB2	1:6:368:PRO:HB2	1.99	0.44
1:Y:621:LYS:HB2	1:Y:643:PRO:HG3	1.98	0.44
1:Z:398:GLU:HB2	1:1:368:PRO:HB2	2.00	0.44
1:Z:497:ASN:ND2	1:w:590:GLN:HG2	2.33	0.44
1:3:450:THR:HG23	1:i:502:ALA:HB2	2.00	0.44
1:5:281:TRP:NE1	1:5:397:LEU:HB2	2.32	0.44
1:5:621:LYS:HB2	1:5:643:PRO:HG3	1.98	0.44
1:d:297:ASP:OD2	1:r:399:TYR:OH	2.36	0.44
1:e:483:SER:HB2	1:e:524:MET:HE3	2.00	0.44
1:f:662:PHE:HA	1:h:373:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:297:ASP:OD2	1:s:399:TYR:OH	2.36	0.44
1:k:317:LEU:HD23	1:k:679:VAL:HG22	1.98	0.44
1:n:398:GLU:HB2	1:s:368:PRO:HB2	1.99	0.44
1:n:598:ASN:ND2	1:p:599:GLN:OE1	2.39	0.44
1:q:281:TRP:NE1	1:q:397:LEU:HB2	2.32	0.44
1:q:483:SER:HB2	1:q:524:MET:HE3	2.00	0.44
1:q:621:LYS:HB2	1:q:643:PRO:HG3	1.98	0.44
1:t:281:TRP:NE1	1:t:397:LEU:HB2	2.32	0.44
1:t:621:LYS:HB2	1:t:643:PRO:HG3	1.98	0.44
1:u:317:LEU:HB2	1:u:411:PHE:HB3	1.98	0.44
1:z:483:SER:HB2	1:z:524:MET:HE3	2.00	0.44
1:A:554:ASP:OD1	1:I:462:LYS:NZ	2.33	0.44
1:C:398:GLU:HB2	1:D:368:PRO:HB2	2.00	0.44
1:C:483:SER:HB2	1:C:524:MET:HE3	1.99	0.44
1:C:662:PHE:HA	1:D:373:MET:SD	2.57	0.44
1:D:398:GLU:HB2	1:E:368:PRO:HB2	1.99	0.44
1:D:399:TYR:OH	1:E:297:ASP:OD2	2.36	0.44
1:E:427:ALA:O	1:E:733:THR:HA	2.17	0.44
1:E:483:SER:HB2	1:E:524:MET:HE3	2.00	0.44
1:F:502:ALA:HB2	1:Q:450:THR:HG23	1.99	0.44
1:F:554:ASP:OD1	1:Q:462:LYS:NZ	2.33	0.44
1:I:368:PRO:HB2	1:J:398:GLU:HB2	1.99	0.44
1:L:281:TRP:NE1	1:L:397:LEU:HB2	2.32	0.44
1:L:621:LYS:HB2	1:L:643:PRO:HG3	1.98	0.44
1:M:399:TYR:OH	1:3:297:ASP:OD2	2.36	0.44
1:M:662:PHE:HA	1:3:373:MET:SD	2.57	0.44
1:N:297:ASP:OD2	1:g:399:TYR:OH	2.36	0.44
1:O:450:THR:HG23	1:g:502:ALA:HB2	1.99	0.44
1:S:367:PHE:HA	1:S:368:PRO:HD3	1.90	0.44
1:T:502:ALA:HB2	1:f:450:THR:HG23	1.99	0.44
1:V:398:GLU:HB2	1:W:368:PRO:HB2	2.00	0.44
1:V:483:SER:HB2	1:V:524:MET:HE3	1.99	0.44
1:W:317:LEU:HB2	1:W:411:PHE:HB3	1.98	0.44
1:1:590:GLN:HG2	1:8:497:ASN:ND2	2.33	0.44
1:2:297:ASP:OD2	1:i:399:TYR:OH	2.36	0.44
1:2:368:PRO:HB2	1:i:398:GLU:HB2	1.99	0.44
1:5:297:ASP:OD2	1:b:399:TYR:OH	2.36	0.44
1:a:340:SER:HA	1:e:321:GLN:NE2	2.33	0.44
1:b:527:HIS:HD2	1:b:528:LYS:O	1.99	0.44
1:c:450:THR:HG23	1:d:502:ALA:HB2	1.99	0.44
1:e:399:TYR:OH	1:q:297:ASP:OD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:570:ASN:HD21	1:g:607:TRP:CB	2.27	0.44
1:j:483:SER:HB2	1:j:524:MET:HE3	1.99	0.44
1:k:281:TRP:NE1	1:k:397:LEU:HB2	2.32	0.44
1:o:368:PRO:HB2	1:v:398:GLU:HB2	1.99	0.44
1:q:450:THR:HG23	1:r:502:ALA:HB2	1.99	0.44
1:s:317:LEU:HB2	1:s:411:PHE:HB3	1.98	0.44
1:u:427:ALA:O	1:u:733:THR:HA	2.16	0.44
1:w:368:PRO:HB2	1:8:398:GLU:HB2	2.00	0.44
1:y:399:TYR:OH	1:8:297:ASP:OD2	2.35	0.44
1:z:281:TRP:NE1	1:z:397:LEU:HB2	2.32	0.44
1:8:281:TRP:NE1	1:8:397:LEU:HB2	2.32	0.44
1:A:317:LEU:HB2	1:A:411:PHE:HB3	1.98	0.44
1:A:502:ALA:HB2	1:I:450:THR:HG23	1.99	0.44
1:D:317:LEU:HB2	1:D:411:PHE:HB3	1.98	0.44
1:G:621:LYS:HB2	1:G:643:PRO:HG3	1.98	0.44
1:K:281:TRP:NE1	1:K:397:LEU:HB2	2.32	0.44
1:K:317:LEU:HD23	1:K:679:VAL:HG22	1.98	0.44
1:K:368:PRO:HB2	1:L:398:GLU:HB2	2.00	0.44
1:K:497:ASN:ND2	1:8:590:GLN:HG2	2.33	0.44
1:L:483:SER:HB2	1:L:524:MET:HE3	2.00	0.44
1:N:450:THR:HG23	1:P:502:ALA:HB2	1.99	0.44
1:P:527:HIS:HD2	1:P:528:LYS:O	1.99	0.44
1:Q:483:SER:HB2	1:Q:524:MET:HE3	2.00	0.44
1:R:317:LEU:HD23	1:R:679:VAL:HG22	1.98	0.44
1:V:399:TYR:OH	1:W:297:ASP:OD2	2.36	0.44
1:X:252:TYR:OH	1:X:374:ILE:O	2.27	0.44
1:X:368:PRO:HB2	1:Y:398:GLU:HB2	2.00	0.44
1:X:399:TYR:OH	1:6:297:ASP:OD2	2.36	0.44
1:Z:281:TRP:NE1	1:Z:397:LEU:HB2	2.32	0.44
1:Z:527:HIS:HD2	1:Z:528:LYS:O	1.99	0.44
1:Z:590:GLN:HG2	1:x:497:ASN:ND2	2.33	0.44
1:4:281:TRP:NE1	1:4:397:LEU:HB2	2.32	0.44
1:5:373:MET:SD	1:b:662:PHE:HA	2.58	0.44
1:6:450:THR:HG23	1:b:502:ALA:HB2	2.00	0.44
1:6:621:LYS:HB2	1:6:643:PRO:HG3	1.98	0.44
1:a:399:TYR:OH	1:e:297:ASP:OD2	2.35	0.44
1:d:252:TYR:OH	1:d:374:ILE:O	2.27	0.44
1:d:527:HIS:HD2	1:d:528:LYS:O	1.99	0.44
1:h:281:TRP:NE1	1:h:397:LEU:HB2	2.32	0.44
1:h:398:GLU:HB2	1:l:368:PRO:HB2	2.00	0.44
1:i:368:PRO:HB2	1:7:398:GLU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:398:GLU:HB2	1:z:368:PRO:HB2	2.00	0.44
1:l:570:ASN:HD21	1:l:607:TRP:CB	2.27	0.44
1:p:317:LEU:HB2	1:p:411:PHE:HB3	1.98	0.44
1:q:441:ASP:CG	1:r:550:ARG:HH12	2.16	0.44
1:t:398:GLU:HB2	1:x:368:PRO:HB2	1.99	0.44
1:t:483:SER:HB2	1:t:524:MET:HE3	2.00	0.44
1:x:621:LYS:HB2	1:x:643:PRO:HG3	1.98	0.44
1:A:399:TYR:OH	1:B:297:ASP:OD2	2.36	0.44
1:C:441:ASP:CG	1:2:550:ARG:HH12	2.17	0.44
1:D:561:THR:HG23	1:D:613:TYR:OH	2.18	0.44
1:F:621:LYS:HB2	1:F:643:PRO:HG3	1.98	0.44
1:H:497:ASN:ND2	1:Y:590:GLN:HG2	2.33	0.44
1:J:281:TRP:NE1	1:J:397:LEU:HB2	2.32	0.44
1:K:427:ALA:O	1:K:733:THR:HA	2.17	0.44
1:K:621:LYS:HB2	1:K:643:PRO:HG3	1.98	0.44
1:L:561:THR:HG23	1:L:613:TYR:OH	2.18	0.44
1:M:502:ALA:HB2	1:2:450:THR:HG23	2.00	0.44
1:O:290:HIS:CG	1:O:366:PRO:HB3	2.53	0.44
1:P:281:TRP:NE1	1:P:397:LEU:HB2	2.32	0.44
1:Q:561:THR:HG23	1:Q:613:TYR:OH	2.18	0.44
1:T:483:SER:HB2	1:T:524:MET:HE3	1.99	0.44
1:T:570:ASN:HD21	1:T:607:TRP:CB	2.27	0.44
1:X:340:SER:HA	1:6:321:GLN:NE2	2.33	0.44
1:X:598:ASN:ND2	1:5:599:GLN:OE1	2.39	0.44
1:Y:561:THR:HG23	1:Y:613:TYR:OH	2.18	0.44
1:1:290:HIS:CG	1:1:366:PRO:HB3	2.53	0.44
1:1:350:TYR:OH	1:1:643:PRO:O	2.25	0.44
1:2:321:GLN:NE2	1:i:340:SER:HA	2.33	0.44
1:e:317:LEU:HB2	1:e:411:PHE:HB3	1.98	0.44
1:e:398:GLU:HB2	1:q:368:PRO:HB2	2.00	0.44
1:e:561:THR:HG23	1:e:613:TYR:OH	2.18	0.44
1:g:483:SER:HB2	1:g:524:MET:HE3	1.99	0.44
1:o:450:THR:HG23	1:p:502:ALA:HB2	1.99	0.44
1:p:317:LEU:HD23	1:p:679:VAL:HG22	1.98	0.44
1:q:427:ALA:O	1:q:733:THR:HA	2.17	0.44
1:r:561:THR:HG23	1:r:613:TYR:OH	2.18	0.44
1:t:561:THR:HG23	1:t:613:TYR:OH	2.18	0.44
1:w:290:HIS:CG	1:w:366:PRO:HB3	2.53	0.44
1:x:281:TRP:NE1	1:x:397:LEU:HB2	2.32	0.44
1:x:317:LEU:HD23	1:x:679:VAL:HG22	1.98	0.44
1:z:317:LEU:HB2	1:z:411:PHE:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:561:THR:HG23	1:7:613:TYR:OH	2.18	0.44
1:B:483:SER:HB2	1:B:524:MET:HE3	2.00	0.44
1:B:561:THR:HG23	1:B:613:TYR:OH	2.18	0.44
1:C:281:TRP:NE1	1:C:397:LEU:HB2	2.32	0.44
1:D:281:TRP:NE1	1:D:397:LEU:HB2	2.32	0.44
1:G:290:HIS:CG	1:G:366:PRO:HB3	2.53	0.44
1:H:625:THR:HG21	1:Y:606:VAL:CG1	2.48	0.44
1:J:427:ALA:O	1:J:733:THR:HA	2.17	0.44
1:M:527:HIS:HD2	1:M:528:LYS:O	2.00	0.44
1:M:561:THR:HG23	1:M:613:TYR:OH	2.18	0.44
1:O:367:PHE:HA	1:O:368:PRO:HD3	1.90	0.44
1:S:368:PRO:HB2	1:4:398:GLU:HB2	2.00	0.44
1:X:662:PHE:HA	1:6:373:MET:SD	2.57	0.44
1:Y:281:TRP:NE1	1:Y:397:LEU:HB2	2.32	0.44
1:Y:483:SER:HB2	1:Y:524:MET:HE3	2.00	0.44
1:3:599:GLN:OE1	1:i:598:ASN:ND2	2.39	0.44
1:6:511:LEU:HD21	1:a:568:THR:O	2.17	0.44
1:a:281:TRP:NE1	1:a:397:LEU:HB2	2.32	0.44
1:a:483:SER:HB2	1:a:524:MET:HE3	2.00	0.44
1:b:561:THR:HG23	1:b:613:TYR:OH	2.18	0.44
1:f:290:HIS:CG	1:f:366:PRO:HB3	2.53	0.44
1:f:317:LEU:HB2	1:f:411:PHE:HB3	1.98	0.44
1:i:483:SER:HB2	1:i:524:MET:HE3	2.00	0.44
1:l:621:LYS:HB2	1:l:643:PRO:HG3	1.98	0.44
1:n:290:HIS:CG	1:n:366:PRO:HB3	2.53	0.44
1:n:297:ASP:OD2	1:z:399:TYR:OH	2.36	0.44
1:p:398:GLU:HB2	1:u:368:PRO:HB2	2.00	0.44
1:p:399:TYR:OH	1:u:297:ASP:OD2	2.36	0.44
1:s:621:LYS:HB2	1:s:643:PRO:HG3	1.98	0.44
1:u:561:THR:HG23	1:u:613:TYR:OH	2.18	0.44
1:v:427:ALA:O	1:v:733:THR:HA	2.17	0.44
1:y:625:THR:HG21	1:7:606:VAL:CG1	2.48	0.44
1:8:527:HIS:HD2	1:8:528:LYS:O	1.99	0.44
1:A:317:LEU:HD23	1:A:679:VAL:HG22	1.98	0.44
1:A:398:GLU:HB2	1:B:368:PRO:HB2	2.00	0.44
1:A:590:GLN:HG2	1:G:497:ASN:ND2	2.32	0.44
1:A:599:GLN:OE1	1:G:598:ASN:ND2	2.39	0.44
1:E:290:HIS:CG	1:E:366:PRO:HB3	2.53	0.44
1:G:297:ASP:OD2	1:W:399:TYR:OH	2.36	0.44
1:I:290:HIS:CG	1:I:366:PRO:HB3	2.53	0.44
1:K:290:HIS:CG	1:K:366:PRO:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:590:GLN:HG2	1:1:497:ASN:ND2	2.33	0.44
1:K:606:VAL:CG1	1:1:625:THR:HG21	2.48	0.44
1:N:290:HIS:CG	1:N:366:PRO:HB3	2.53	0.44
1:N:621:LYS:HB2	1:N:643:PRO:HG3	1.98	0.44
1:O:483:SER:HB2	1:O:524:MET:HE3	2.00	0.44
1:O:561:THR:HG23	1:O:613:TYR:OH	2.18	0.44
1:O:606:VAL:CG1	1:g:625:THR:HG21	2.48	0.44
1:R:450:THR:HG23	1:S:502:ALA:HB2	1.99	0.44
1:S:561:THR:HG23	1:S:613:TYR:OH	2.18	0.44
1:S:621:LYS:HB2	1:S:643:PRO:HG3	1.98	0.44
1:T:625:THR:HG21	1:f:606:VAL:CG1	2.48	0.44
1:V:606:VAL:CG1	1:5:625:THR:HG21	2.48	0.44
1:X:483:SER:HB2	1:X:524:MET:HE3	2.00	0.44
1:X:570:ASN:HD21	1:X:607:TRP:CB	2.27	0.44
1:2:621:LYS:HB2	1:2:643:PRO:HG3	1.98	0.44
1:3:625:THR:HG21	1:j:606:VAL:CG1	2.48	0.44
1:4:561:THR:HG23	1:4:613:TYR:OH	2.18	0.44
1:6:398:GLU:HB2	1:t:368:PRO:HB2	2.00	0.44
1:6:550:ARG:HH12	1:a:441:ASP:CG	2.17	0.44
1:a:290:HIS:CG	1:a:366:PRO:HB3	2.53	0.44
1:c:290:HIS:CG	1:c:366:PRO:HB3	2.53	0.44
1:d:281:TRP:NE1	1:d:397:LEU:HB2	2.32	0.44
1:e:281:TRP:NE1	1:e:397:LEU:HB2	2.32	0.44
1:f:483:SER:HB2	1:f:524:MET:HE3	2.00	0.44
1:h:561:THR:HG23	1:h:613:TYR:OH	2.18	0.44
1:i:570:ASN:HD21	1:i:607:TRP:CB	2.27	0.44
1:l:561:THR:HG23	1:l:613:TYR:OH	2.18	0.44
1:n:621:LYS:HB2	1:n:643:PRO:HG3	1.98	0.44
1:o:290:HIS:CG	1:o:366:PRO:HB3	2.53	0.44
1:p:483:SER:HB2	1:p:524:MET:HE3	2.00	0.44
1:q:290:HIS:CG	1:q:366:PRO:HB3	2.53	0.44
1:r:350:TYR:OH	1:r:643:PRO:O	2.25	0.44
1:s:561:THR:HG23	1:s:613:TYR:OH	2.18	0.44
1:u:483:SER:HB2	1:u:524:MET:HE3	2.00	0.44
1:x:290:HIS:CG	1:x:366:PRO:HB3	2.53	0.44
1:y:497:ASN:ND2	1:7:590:GLN:HG2	2.33	0.44
1:7:281:TRP:NE1	1:7:397:LEU:HB2	2.32	0.44
1:7:483:SER:HB2	1:7:524:MET:HE3	2.00	0.44
1:A:483:SER:HB2	1:A:524:MET:HE3	2.00	0.43
1:B:290:HIS:CG	1:B:366:PRO:HB3	2.53	0.43
1:C:590:GLN:HG2	1:2:497:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:441:ASP:CG	1:Q:550:ARG:HH12	2.16	0.43
1:F:561:THR:HG23	1:F:613:TYR:OH	2.18	0.43
1:G:606:VAL:CG1	1:I:625:THR:HG21	2.48	0.43
1:L:290:HIS:CG	1:L:366:PRO:HB3	2.53	0.43
1:L:368:PRO:HB2	1:2:398:GLU:HB2	2.00	0.43
1:O:317:LEU:HB2	1:O:411:PHE:HB3	1.98	0.43
1:O:398:GLU:HB2	1:4:368:PRO:HB2	2.00	0.43
1:S:343:GLN:HA	1:S:403:GLN:O	2.18	0.43
1:S:450:THR:HG23	1:U:502:ALA:HB2	1.99	0.43
1:U:252:TYR:OH	1:U:374:ILE:O	2.27	0.43
1:U:343:GLN:HA	1:U:403:GLN:O	2.18	0.43
1:V:290:HIS:CG	1:V:366:PRO:HB3	2.53	0.43
1:X:290:HIS:CG	1:X:366:PRO:HB3	2.53	0.43
1:Z:561:THR:HG23	1:Z:613:TYR:OH	2.18	0.43
1:2:373:MET:SD	1:i:662:PHE:HA	2.57	0.43
1:3:561:THR:HG23	1:3:613:TYR:OH	2.18	0.43
1:5:561:THR:HG23	1:5:613:TYR:OH	2.18	0.43
1:6:343:GLN:HA	1:6:403:GLN:O	2.18	0.43
1:c:483:SER:HB2	1:c:524:MET:HE3	2.00	0.43
1:d:368:PRO:HB2	1:r:398:GLU:HB2	2.00	0.43
1:d:590:GLN:HG2	1:e:497:ASN:ND2	2.33	0.43
1:f:561:THR:HG23	1:f:613:TYR:OH	2.18	0.43
1:i:290:HIS:CG	1:i:366:PRO:HB3	2.53	0.43
1:j:290:HIS:CG	1:j:366:PRO:HB3	2.53	0.43
1:k:450:THR:HG23	1:l:502:ALA:HB2	1.99	0.43
1:l:343:GLN:HA	1:l:403:GLN:O	2.18	0.43
1:m:252:TYR:OH	1:m:374:ILE:O	2.27	0.43
1:m:343:GLN:HA	1:m:403:GLN:O	2.18	0.43
1:n:606:VAL:CG1	1:o:625:THR:HG21	2.48	0.43
1:p:368:PRO:HB2	1:q:398:GLU:HB2	2.00	0.43
1:t:290:HIS:CG	1:t:366:PRO:HB3	2.53	0.43
1:u:450:THR:HG23	1:v:502:ALA:HB2	1.99	0.43
1:v:281:TRP:NE1	1:v:397:LEU:HB2	2.32	0.43
1:v:561:THR:HG23	1:v:613:TYR:OH	2.18	0.43
1:w:625:THR:HG21	1:x:606:VAL:CG1	2.48	0.43
1:y:590:GLN:HG2	1:z:497:ASN:ND2	2.33	0.43
1:z:707:LYS:H	1:z:707:LYS:HG3	1.47	0.43
1:A:368:PRO:HB2	1:E:398:GLU:HB2	2.00	0.43
1:A:561:THR:HG23	1:A:613:TYR:OH	2.18	0.43
1:B:441:ASP:CG	1:J:550:ARG:HH12	2.17	0.43
1:B:450:THR:HG23	1:J:502:ALA:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:ASN:HD21	1:B:607:TRP:CB	2.27	0.43
1:C:290:HIS:CG	1:C:366:PRO:HB3	2.53	0.43
1:D:497:ASN:ND2	1:P:590:GLN:HG2	2.33	0.43
1:E:317:LEU:HB2	1:E:411:PHE:HB3	1.98	0.43
1:E:502:ALA:HB2	1:F:450:THR:HG23	1.99	0.43
1:E:599:GLN:OE1	1:Q:598:ASN:ND2	2.39	0.43
1:H:590:GLN:HG2	1:W:497:ASN:ND2	2.33	0.43
1:I:561:THR:HG23	1:I:613:TYR:OH	2.18	0.43
1:J:561:THR:HG23	1:J:613:TYR:OH	2.18	0.43
1:N:483:SER:HB2	1:N:524:MET:HE3	2.00	0.43
1:P:368:PRO:HB2	1:Q:398:GLU:HB2	2.00	0.43
1:Q:343:GLN:HA	1:Q:403:GLN:O	2.18	0.43
1:R:399:TYR:OH	1:V:297:ASP:OD2	2.35	0.43
1:V:343:GLN:HA	1:V:403:GLN:O	2.18	0.43
1:W:561:THR:HG23	1:W:613:TYR:OH	2.18	0.43
1:2:343:GLN:HA	1:2:403:GLN:O	2.18	0.43
1:4:343:GLN:HA	1:4:403:GLN:O	2.18	0.43
1:5:570:ASN:HD21	1:5:607:TRP:CB	2.27	0.43
1:a:598:ASN:ND2	1:b:599:GLN:OE1	2.39	0.43
1:b:281:TRP:NE1	1:b:397:LEU:HB2	2.32	0.43
1:c:281:TRP:NE1	1:c:397:LEU:HB2	2.32	0.43
1:c:621:LYS:HB2	1:c:643:PRO:HG3	1.98	0.43
1:e:343:GLN:HA	1:e:403:GLN:O	2.18	0.43
1:f:398:GLU:HB2	1:h:368:PRO:HB2	2.00	0.43
1:g:590:GLN:HG2	1:h:497:ASN:ND2	2.33	0.43
1:h:343:GLN:HA	1:h:403:GLN:O	2.18	0.43
1:i:317:LEU:HD23	1:i:679:VAL:HG22	1.98	0.43
1:j:297:ASP:OD2	1:k:399:TYR:OH	2.35	0.43
1:j:343:GLN:HA	1:j:403:GLN:O	2.18	0.43
1:o:281:TRP:NE1	1:o:397:LEU:HB2	2.32	0.43
1:q:317:LEU:HB2	1:q:411:PHE:HB3	1.98	0.43
1:q:502:ALA:HB2	1:s:450:THR:HG23	1.99	0.43
1:u:290:HIS:CG	1:u:366:PRO:HB3	2.53	0.43
1:u:570:ASN:HD21	1:u:607:TRP:CB	2.27	0.43
1:w:427:ALA:O	1:w:733:THR:HA	2.16	0.43
1:w:497:ASN:ND2	1:x:590:GLN:HG2	2.33	0.43
1:x:343:GLN:HA	1:x:403:GLN:O	2.18	0.43
1:z:561:THR:HG23	1:z:613:TYR:OH	2.18	0.43
1:8:561:THR:HG23	1:8:613:TYR:OH	2.18	0.43
1:D:343:GLN:HA	1:D:403:GLN:O	2.18	0.43
1:D:606:VAL:CG1	1:N:625:THR:HG21	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:343:GLN:HA	1:H:403:GLN:O	2.18	0.43
1:I:281:TRP:NE1	1:I:397:LEU:HB2	2.32	0.43
1:I:483:SER:HB2	1:I:524:MET:HE3	2.00	0.43
1:J:297:ASP:OD2	1:J:399:TYR:OH	2.36	0.43
1:K:343:GLN:HA	1:K:403:GLN:O	2.19	0.43
1:L:343:GLN:HA	1:L:403:GLN:O	2.18	0.43
1:M:281:TRP:NE1	1:M:397:LEU:HB2	2.32	0.43
1:N:281:TRP:NE1	1:N:397:LEU:HB2	2.32	0.43
1:P:561:THR:HG23	1:P:613:TYR:OH	2.18	0.43
1:V:561:THR:HG23	1:V:613:TYR:OH	2.18	0.43
1:X:317:LEU:HD23	1:X:679:VAL:HG22	1.98	0.43
1:b:483:SER:HB2	1:b:524:MET:HE3	2.00	0.43
1:c:625:THR:HG21	1:e:606:VAL:CG1	2.49	0.43
1:d:561:THR:HG23	1:d:613:TYR:OH	2.18	0.43
1:e:290:HIS:CG	1:e:366:PRO:HB3	2.53	0.43
1:i:606:VAL:CG1	1:j:625:THR:HG21	2.49	0.43
1:k:554:ASP:OD1	1:m:462:LYS:NZ	2.32	0.43
1:l:281:TRP:NE1	1:l:397:LEU:HB2	2.32	0.43
1:l:450:THR:HG23	1:m:502:ALA:HB2	1.99	0.43
1:n:625:THR:HG21	1:p:606:VAL:CG1	2.48	0.43
1:o:483:SER:HB2	1:o:524:MET:HE3	2.00	0.43
1:o:561:THR:HG23	1:o:613:TYR:OH	2.18	0.43
1:p:561:THR:HG23	1:p:613:TYR:OH	2.18	0.43
1:r:343:GLN:HA	1:r:403:GLN:O	2.18	0.43
1:y:343:GLN:HA	1:y:403:GLN:O	2.18	0.43
1:B:343:GLN:HA	1:B:403:GLN:O	2.18	0.43
1:D:290:HIS:CG	1:D:366:PRO:HB3	2.53	0.43
1:D:625:THR:HG21	1:P:606:VAL:CG1	2.49	0.43
1:F:343:GLN:HA	1:F:403:GLN:O	2.18	0.43
1:G:343:GLN:HA	1:G:403:GLN:O	2.18	0.43
1:H:290:HIS:CG	1:H:366:PRO:HB3	2.53	0.43
1:I:297:ASP:OD2	1:J:399:TYR:OH	2.36	0.43
1:M:290:HIS:CG	1:M:366:PRO:HB3	2.53	0.43
1:O:368:PRO:HB2	1:P:398:GLU:HB2	2.00	0.43
1:R:290:HIS:CG	1:R:366:PRO:HB3	2.53	0.43
1:S:281:TRP:NE1	1:S:397:LEU:HB2	2.32	0.43
1:T:707:LYS:H	1:T:707:LYS:HG3	1.47	0.43
1:V:625:THR:HG21	1:X:606:VAL:CG1	2.49	0.43
1:W:290:HIS:CG	1:W:366:PRO:HB3	2.53	0.43
1:Z:343:GLN:HA	1:Z:403:GLN:O	2.18	0.43
1:3:570:ASN:HD21	1:3:607:TRP:CB	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:483:SER:HB2	1:5:524:MET:HE3	2.00	0.43
1:d:398:GLU:HB2	1:f:368:PRO:HB2	2.00	0.43
1:d:606:VAL:CG1	1:e:625:THR:HG21	2.48	0.43
1:e:707:LYS:H	1:e:707:LYS:HG3	1.47	0.43
1:f:367:PHE:HA	1:f:368:PRO:HD3	1.90	0.43
1:g:561:THR:HG23	1:g:613:TYR:OH	2.18	0.43
1:i:343:GLN:HA	1:i:403:GLN:O	2.18	0.43
1:j:561:THR:HG23	1:j:613:TYR:OH	2.18	0.43
1:l:590:GLN:HG2	1:m:497:ASN:ND2	2.33	0.43
1:n:343:GLN:HA	1:n:403:GLN:O	2.18	0.43
1:n:483:SER:HB2	1:n:524:MET:HE3	2.00	0.43
1:o:297:ASP:OD2	1:v:399:TYR:OH	2.36	0.43
1:q:625:THR:HG21	1:s:606:VAL:CG1	2.48	0.43
1:r:606:VAL:CG1	1:s:625:THR:HG21	2.48	0.43
1:t:343:GLN:HA	1:t:403:GLN:O	2.18	0.43
1:u:343:GLN:HA	1:u:403:GLN:O	2.19	0.43
1:w:343:GLN:HA	1:w:403:GLN:O	2.18	0.43
1:y:290:HIS:CG	1:y:366:PRO:HB3	2.53	0.43
1:y:483:SER:HB2	1:y:524:MET:HE3	2.00	0.43
1:y:561:THR:HG23	1:y:613:TYR:OH	2.18	0.43
1:8:343:GLN:HA	1:8:403:GLN:O	2.18	0.43
1:B:399:TYR:OH	1:C:297:ASP:OD2	2.35	0.43
1:C:399:TYR:OH	1:D:297:ASP:OD2	2.36	0.43
1:D:502:ALA:HB2	1:P:450:THR:HG23	1.99	0.43
1:E:497:ASN:ND2	1:F:590:GLN:HG2	2.33	0.43
1:E:561:THR:HG23	1:E:613:TYR:OH	2.18	0.43
1:E:625:THR:HG21	1:F:606:VAL:CG1	2.48	0.43
1:F:290:HIS:CG	1:F:366:PRO:HB3	2.53	0.43
1:G:483:SER:HB2	1:G:524:MET:HE3	2.00	0.43
1:G:590:GLN:HG2	1:I:497:ASN:ND2	2.34	0.43
1:H:398:GLU:HB2	1:Z:368:PRO:HB2	2.00	0.43
1:H:561:THR:HG23	1:H:613:TYR:OH	2.18	0.43
1:M:350:TYR:OH	1:M:643:PRO:O	2.25	0.43
1:M:483:SER:HB2	1:M:524:MET:HE3	2.00	0.43
1:S:590:GLN:HG2	1:U:497:ASN:ND2	2.33	0.43
1:T:281:TRP:NE1	1:T:397:LEU:HB2	2.32	0.43
1:T:561:THR:HG23	1:T:613:TYR:OH	2.18	0.43
1:U:290:HIS:CG	1:U:366:PRO:HB3	2.53	0.43
1:V:314:ASN:HB3	1:V:682:GLU:HB3	2.01	0.43
1:Y:343:GLN:HA	1:Y:403:GLN:O	2.18	0.43
1:1:343:GLN:HA	1:1:403:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:427:ALA:O	1:1:733:THR:HA	2.17	0.43
1:a:662:PHE:HA	1:e:373:MET:SD	2.57	0.43
1:b:290:HIS:CG	1:b:366:PRO:HB3	2.53	0.43
1:i:590:GLN:HG2	1:j:497:ASN:ND2	2.34	0.43
1:j:314:ASN:HB3	1:j:682:GLU:HB3	2.01	0.43
1:j:321:GLN:NE2	1:k:340:SER:HA	2.34	0.43
1:m:483:SER:HB2	1:m:524:MET:HE3	2.00	0.43
1:n:590:GLN:HG2	1:o:497:ASN:ND2	2.34	0.43
1:p:290:HIS:CG	1:p:366:PRO:HB3	2.53	0.43
1:q:497:ASN:ND2	1:s:590:GLN:HG2	2.33	0.43
1:q:561:THR:HG23	1:q:613:TYR:OH	2.18	0.43
1:s:290:HIS:CG	1:s:366:PRO:HB3	2.53	0.43
1:t:590:GLN:HG2	1:u:497:ASN:ND2	2.33	0.43
1:u:441:ASP:CG	1:v:550:ARG:HH12	2.17	0.43
1:v:297:ASP:OD2	1:w:399:TYR:OH	2.36	0.43
1:w:561:THR:HG23	1:w:613:TYR:OH	2.18	0.43
1:w:598:ASN:ND2	1:x:599:GLN:OE1	2.39	0.43
1:y:398:GLU:HB2	1:8:368:PRO:HB2	2.00	0.43
1:z:290:HIS:CG	1:z:366:PRO:HB3	2.53	0.43
1:A:606:VAL:CG1	1:G:625:THR:HG21	2.49	0.43
1:C:343:GLN:HA	1:C:403:GLN:O	2.18	0.43
1:C:497:ASN:ND2	1:M:590:GLN:HG2	2.34	0.43
1:D:441:ASP:CG	1:N:550:ARG:HH12	2.16	0.43
1:E:314:ASN:HB3	1:E:682:GLU:HB3	2.01	0.43
1:E:343:GLN:HA	1:E:403:GLN:O	2.18	0.43
1:F:625:THR:HG21	1:Q:606:VAL:CG1	2.49	0.43
1:H:317:LEU:HB2	1:H:411:PHE:HB3	1.98	0.43
1:H:483:SER:HB2	1:H:524:MET:HE3	2.00	0.43
1:I:621:LYS:HB2	1:I:643:PRO:HG3	1.98	0.43
1:J:290:HIS:CG	1:J:366:PRO:HB3	2.53	0.43
1:J:343:GLN:HA	1:J:403:GLN:O	2.18	0.43
1:P:343:GLN:HA	1:P:403:GLN:O	2.18	0.43
1:T:290:HIS:CG	1:T:366:PRO:HB3	2.53	0.43
1:U:483:SER:HB2	1:U:524:MET:HE3	2.00	0.43
1:U:570:ASN:HD21	1:U:607:TRP:CB	2.27	0.43
1:V:497:ASN:ND2	1:X:590:GLN:HG2	2.34	0.43
1:W:343:GLN:HA	1:W:403:GLN:O	2.18	0.43
1:X:343:GLN:HA	1:X:403:GLN:O	2.18	0.43
1:Z:502:ALA:HB2	1:w:450:THR:HG23	1.99	0.43
1:1:561:THR:HG23	1:1:613:TYR:OH	2.18	0.43
1:3:483:SER:HB2	1:3:524:MET:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:321:GLN:NE2	1:b:340:SER:HA	2.33	0.43
1:a:297:ASP:OD2	1:u:399:TYR:OH	2.35	0.43
1:c:550:ARG:HH12	1:e:441:ASP:CG	2.16	0.43
1:d:450:THR:HG23	1:e:502:ALA:HB2	1.99	0.43
1:j:368:PRO:HB2	1:k:398:GLU:HB2	2.00	0.43
1:j:398:GLU:O	1:z:228:TRP:NE1	2.45	0.43
1:k:290:HIS:CG	1:k:366:PRO:HB3	2.53	0.43
1:k:561:THR:HG23	1:k:613:TYR:OH	2.18	0.43
1:m:290:HIS:CG	1:m:366:PRO:HB3	2.53	0.43
1:n:502:ALA:HB2	1:p:450:THR:HG23	1.99	0.43
1:o:621:LYS:HB2	1:o:643:PRO:HG3	1.98	0.43
1:p:321:GLN:NE2	1:q:340:SER:HA	2.34	0.43
1:u:606:VAL:CG1	1:v:625:THR:HG21	2.49	0.43
1:v:290:HIS:CG	1:v:366:PRO:HB3	2.53	0.43
1:v:343:GLN:HA	1:v:403:GLN:O	2.18	0.43
1:v:368:PRO:HB2	1:w:398:GLU:HB2	2.00	0.43
1:y:317:LEU:HB2	1:y:411:PHE:HB3	1.98	0.43
1:7:343:GLN:HA	1:7:403:GLN:O	2.18	0.43
1:A:290:HIS:CG	1:A:366:PRO:HB3	2.53	0.43
1:A:321:GLN:NE2	1:E:340:SER:HA	2.34	0.43
1:A:497:ASN:ND2	1:I:590:GLN:HG2	2.34	0.43
1:B:497:ASN:ND2	1:L:590:GLN:HG2	2.33	0.43
1:B:606:VAL:CG1	1:J:625:THR:HG21	2.49	0.43
1:C:314:ASN:HB3	1:C:682:GLU:HB3	2.01	0.43
1:C:606:VAL:CG1	1:2:625:THR:HG21	2.48	0.43
1:F:303:ASN:O	1:F:732:LEU:HD21	2.19	0.43
1:G:561:THR:HG23	1:G:613:TYR:OH	2.18	0.43
1:H:606:VAL:CG1	1:W:625:THR:HG21	2.49	0.43
1:K:561:THR:HG23	1:K:613:TYR:OH	2.18	0.43
1:K:625:THR:HG21	1:8:606:VAL:CG1	2.48	0.43
1:M:340:SER:HA	1:3:321:GLN:NE2	2.33	0.43
1:O:625:THR:HG21	1:h:606:VAL:CG1	2.48	0.43
1:P:290:HIS:CG	1:P:366:PRO:HB3	2.53	0.43
1:R:340:SER:HA	1:V:321:GLN:NE2	2.34	0.43
1:R:398:GLU:HB2	1:V:368:PRO:HB2	2.00	0.43
1:R:590:GLN:HG2	1:S:497:ASN:ND2	2.33	0.43
1:U:219:ASP:N	1:U:408:GLY:O	2.52	0.43
1:U:297:ASP:OD2	1:5:399:TYR:OH	2.36	0.43
1:X:281:TRP:NE1	1:X:397:LEU:HB2	2.32	0.43
1:Y:290:HIS:CG	1:Y:366:PRO:HB3	2.53	0.43
1:Y:368:PRO:HB2	1:x:398:GLU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:606:VAL:CG1	1:x:625:THR:HG21	2.48	0.43
1:1:219:ASP:N	1:1:408:GLY:O	2.52	0.43
1:1:450:THR:HG23	1:8:502:ALA:HB2	1.99	0.43
1:4:483:SER:HB2	1:4:524:MET:HE3	2.00	0.43
1:5:368:PRO:HB2	1:b:398:GLU:HB2	1.99	0.43
1:6:561:THR:HG23	1:6:613:TYR:OH	2.18	0.43
1:d:343:GLN:HA	1:d:403:GLN:O	2.18	0.43
1:g:281:TRP:NE1	1:g:397:LEU:HB2	2.32	0.43
1:g:290:HIS:CG	1:g:366:PRO:HB3	2.53	0.43
1:m:219:ASP:N	1:m:408:GLY:O	2.52	0.43
1:q:314:ASN:HB3	1:q:682:GLU:HB3	2.01	0.43
1:s:303:ASN:O	1:s:732:LEU:HD21	2.19	0.43
1:s:343:GLN:HA	1:s:403:GLN:O	2.18	0.43
1:t:502:ALA:HB2	1:v:450:THR:HG23	1.99	0.43
1:t:599:GLN:OE1	1:u:598:ASN:ND2	2.39	0.43
1:w:219:ASP:N	1:w:408:GLY:O	2.52	0.43
1:w:321:GLN:NE2	1:8:340:SER:HA	2.34	0.43
1:x:252:TYR:OH	1:x:374:ILE:O	2.27	0.43
1:x:561:THR:HG23	1:x:613:TYR:OH	2.18	0.43
1:7:290:HIS:CG	1:7:366:PRO:HB3	2.53	0.43
1:C:340:SER:HA	1:D:321:GLN:NE2	2.34	0.43
1:D:314:ASN:HB3	1:D:682:GLU:HB3	2.01	0.43
1:F:321:GLN:NE2	1:G:340:SER:HA	2.34	0.43
1:H:314:ASN:HB3	1:H:682:GLU:HB3	2.01	0.43
1:J:368:PRO:HB2	1:1:398:GLU:HB2	2.00	0.43
1:J:450:THR:HG23	1:L:502:ALA:HB2	1.99	0.43
1:M:368:PRO:HB2	1:N:398:GLU:HB2	2.00	0.43
1:M:398:GLU:HB2	1:3:368:PRO:HB2	1.99	0.43
1:N:350:TYR:OH	1:N:643:PRO:O	2.25	0.43
1:O:343:GLN:HA	1:O:403:GLN:O	2.19	0.43
1:P:303:ASN:O	1:P:732:LEU:HD21	2.19	0.43
1:R:561:THR:HG23	1:R:613:TYR:OH	2.18	0.43
1:S:321:GLN:NE2	1:4:340:SER:HA	2.34	0.43
1:S:599:GLN:OE1	1:U:598:ASN:ND2	2.39	0.43
1:S:606:VAL:CG1	1:U:625:THR:HG21	2.49	0.43
1:T:343:GLN:HA	1:T:403:GLN:O	2.19	0.43
1:V:219:ASP:N	1:V:408:GLY:O	2.52	0.43
1:Z:340:SER:HA	1:1:321:GLN:NE2	2.34	0.43
1:3:290:HIS:CG	1:3:366:PRO:HB3	2.53	0.43
1:3:314:ASN:HB3	1:3:682:GLU:HB3	2.01	0.43
1:3:399:TYR:OH	1:m:297:ASP:OD2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:606:VAL:CG1	1:f:625:THR:HG21	2.48	0.43
1:5:290:HIS:CG	1:5:366:PRO:HB3	2.53	0.43
1:a:343:GLN:HA	1:a:403:GLN:O	2.19	0.43
1:b:368:PRO:HB2	1:c:398:GLU:HB2	2.00	0.43
1:d:303:ASN:O	1:d:732:LEU:HD21	2.19	0.43
1:e:314:ASN:HB3	1:e:682:GLU:HB3	2.01	0.43
1:h:483:SER:HB2	1:h:524:MET:HE3	2.00	0.43
1:i:281:TRP:NE1	1:i:397:LEU:HB2	2.32	0.43
1:j:219:ASP:N	1:j:408:GLY:O	2.52	0.43
1:k:590:GLN:HG2	1:l:497:ASN:ND2	2.33	0.43
1:l:219:ASP:N	1:l:408:GLY:O	2.52	0.43
1:l:606:VAL:CG1	1:m:625:THR:HG21	2.49	0.43
1:n:340:SER:HA	1:s:321:GLN:NE2	2.34	0.43
1:o:606:VAL:CG1	1:p:625:THR:HG21	2.49	0.43
1:q:343:GLN:HA	1:q:403:GLN:O	2.18	0.43
1:q:590:GLN:HG2	1:r:497:ASN:ND2	2.33	0.43
1:y:314:ASN:HB3	1:y:682:GLU:HB3	2.01	0.43
1:y:606:VAL:CG1	1:z:625:THR:HG21	2.49	0.43
1:z:343:GLN:HA	1:z:403:GLN:O	2.18	0.43
1:8:290:HIS:CG	1:8:366:PRO:HB3	2.53	0.43
1:A:450:THR:HG23	1:G:502:ALA:HB2	1.99	0.43
1:C:561:THR:HG23	1:C:613:TYR:OH	2.18	0.43
1:C:598:ASN:ND2	1:M:599:GLN:OE1	2.39	0.43
1:C:625:THR:HG21	1:M:606:VAL:CG1	2.49	0.43
1:D:340:SER:HA	1:E:321:GLN:NE2	2.34	0.43
1:E:219:ASP:N	1:E:408:GLY:O	2.52	0.43
1:F:340:SER:HA	1:R:321:GLN:NE2	2.34	0.43
1:F:570:ASN:HD21	1:F:607:TRP:CB	2.27	0.43
1:G:314:ASN:HB3	1:G:682:GLU:HB3	2.01	0.43
1:G:321:GLN:NE2	1:W:340:SER:HA	2.34	0.43
1:I:343:GLN:HA	1:I:403:GLN:O	2.18	0.43
1:K:219:ASP:N	1:K:408:GLY:O	2.52	0.43
1:K:599:GLN:OE1	1:1:598:ASN:ND2	2.39	0.43
1:M:219:ASP:N	1:M:408:GLY:O	2.52	0.43
1:M:343:GLN:HA	1:M:403:GLN:O	2.18	0.43
1:P:219:ASP:N	1:P:408:GLY:O	2.52	0.43
1:S:219:ASP:N	1:S:408:GLY:O	2.52	0.43
1:S:303:ASN:O	1:S:732:LEU:HD21	2.19	0.43
1:S:314:ASN:HB3	1:S:682:GLU:HB3	2.01	0.43
1:T:314:ASN:HB3	1:T:682:GLU:HB3	2.01	0.43
1:V:340:SER:HA	1:W:321:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:398:GLU:O	1:W:228:TRP:NE1	2.45	0.43
1:W:219:ASP:N	1:W:408:GLY:O	2.52	0.43
1:W:707:LYS:H	1:W:707:LYS:HG3	1.47	0.43
1:Y:350:TYR:OH	1:Y:643:PRO:O	2.25	0.43
1:Z:625:THR:HG21	1:w:606:VAL:CG1	2.48	0.43
1:1:314:ASN:HB3	1:1:682:GLU:HB3	2.01	0.43
1:2:561:THR:HG23	1:2:613:TYR:OH	2.18	0.43
1:5:303:ASN:O	1:5:732:LEU:HD21	2.19	0.43
1:a:314:ASN:HB3	1:a:682:GLU:HB3	2.01	0.43
1:a:561:THR:HG23	1:a:613:TYR:OH	2.18	0.43
1:c:350:TYR:OH	1:c:643:PRO:O	2.25	0.43
1:d:290:HIS:CG	1:d:366:PRO:HB3	2.53	0.43
1:e:340:SER:HA	1:q:321:GLN:NE2	2.34	0.43
1:e:350:TYR:OH	1:e:643:PRO:O	2.25	0.43
1:f:343:GLN:HA	1:f:403:GLN:O	2.19	0.43
1:g:343:GLN:HA	1:g:403:GLN:O	2.19	0.43
1:g:368:PRO:HB2	1:m:398:GLU:HB2	2.00	0.43
1:g:606:VAL:CG1	1:h:625:THR:HG21	2.48	0.43
1:h:314:ASN:HB3	1:h:682:GLU:HB3	2.01	0.43
1:h:340:SER:HA	1:l:321:GLN:NE2	2.34	0.43
1:i:367:PHE:HA	1:i:368:PRO:HD3	1.90	0.43
1:j:340:SER:HA	1:z:321:GLN:NE2	2.34	0.43
1:k:321:GLN:NE2	1:s:340:SER:HA	2.34	0.43
1:l:314:ASN:HB3	1:l:682:GLU:HB3	2.01	0.43
1:l:399:TYR:OH	1:r:297:ASP:OD2	2.35	0.43
1:m:570:ASN:HD21	1:m:607:TRP:CB	2.27	0.43
1:n:314:ASN:HB3	1:n:682:GLU:HB3	2.01	0.43
1:n:561:THR:HG23	1:n:613:TYR:OH	2.18	0.43
1:o:343:GLN:HA	1:o:403:GLN:O	2.18	0.43
1:o:590:GLN:HG2	1:p:497:ASN:ND2	2.34	0.43
1:p:343:GLN:HA	1:p:403:GLN:O	2.18	0.43
1:q:219:ASP:N	1:q:408:GLY:O	2.52	0.43
1:r:590:GLN:HG2	1:s:497:ASN:ND2	2.33	0.43
1:t:497:ASN:ND2	1:v:590:GLN:HG2	2.33	0.43
1:t:707:LYS:H	1:t:707:LYS:HG3	1.47	0.43
1:u:219:ASP:N	1:u:408:GLY:O	2.52	0.43
1:u:590:GLN:HG2	1:v:497:ASN:ND2	2.33	0.43
1:v:314:ASN:HB3	1:v:682:GLU:HB3	2.01	0.43
1:w:314:ASN:HB3	1:w:682:GLU:HB3	2.01	0.43
1:B:219:ASP:N	1:B:408:GLY:O	2.52	0.43
1:B:340:SER:HA	1:C:321:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:303:ASN:O	1:H:732:LEU:HD21	2.19	0.43
1:H:340:SER:HA	1:Z:321:GLN:NE2	2.34	0.43
1:H:368:PRO:HB2	1:I:398:GLU:HB2	2.00	0.43
1:I:219:ASP:N	1:I:408:GLY:O	2.52	0.43
1:J:314:ASN:HB3	1:J:682:GLU:HB3	2.01	0.43
1:J:321:GLN:NE2	1:1:340:SER:HA	2.34	0.43
1:K:398:GLU:HB2	1:7:368:PRO:HB2	2.00	0.43
1:Q:290:HIS:CG	1:Q:366:PRO:HB3	2.53	0.43
1:Q:303:ASN:O	1:Q:732:LEU:HD21	2.19	0.43
1:R:554:ASP:HB2	1:R:557:LYS:HZ3	1.83	0.43
1:T:303:ASN:O	1:T:732:LEU:HD21	2.19	0.43
1:T:368:PRO:HB2	1:U:398:GLU:HB2	2.00	0.43
1:T:598:ASN:ND2	1:f:599:GLN:OE1	2.39	0.43
1:T:606:VAL:CG1	1:4:625:THR:HG21	2.48	0.43
1:U:561:THR:HG23	1:U:613:TYR:OH	2.18	0.43
1:X:219:ASP:N	1:X:408:GLY:O	2.52	0.43
1:Z:290:HIS:CG	1:Z:366:PRO:HB3	2.53	0.43
1:1:606:VAL:CG1	1:8:625:THR:HG21	2.48	0.43
1:3:303:ASN:O	1:3:732:LEU:HD21	2.19	0.43
1:3:606:VAL:CG1	1:i:625:THR:HG21	2.49	0.43
1:4:314:ASN:HB3	1:4:682:GLU:HB3	2.01	0.43
1:5:314:ASN:HB3	1:5:682:GLU:HB3	2.01	0.43
1:b:219:ASP:N	1:b:408:GLY:O	2.52	0.43
1:b:228:TRP:NE1	1:c:398:GLU:O	2.45	0.43
1:b:343:GLN:HA	1:b:403:GLN:O	2.18	0.43
1:b:350:TYR:OH	1:b:643:PRO:O	2.25	0.43
1:c:219:ASP:N	1:c:408:GLY:O	2.52	0.43
1:d:219:ASP:N	1:d:408:GLY:O	2.52	0.43
1:g:303:ASN:O	1:g:732:LEU:HD21	2.19	0.43
1:g:314:ASN:HB3	1:g:682:GLU:HB3	2.01	0.43
1:k:343:GLN:HA	1:k:403:GLN:O	2.18	0.43
1:k:368:PRO:HB2	1:s:398:GLU:HB2	2.00	0.43
1:l:303:ASN:O	1:l:732:LEU:HD21	2.19	0.43
1:m:561:THR:HG23	1:m:613:TYR:OH	2.18	0.43
1:n:219:ASP:N	1:n:408:GLY:O	2.52	0.43
1:n:321:GLN:NE2	1:z:340:SER:HA	2.34	0.43
1:o:219:ASP:N	1:o:408:GLY:O	2.52	0.43
1:o:398:GLU:HB2	1:y:368:PRO:HB2	2.00	0.43
1:r:290:HIS:CG	1:r:366:PRO:HB3	2.53	0.43
1:r:314:ASN:HB3	1:r:682:GLU:HB3	2.01	0.43
1:s:219:ASP:N	1:s:408:GLY:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:303:ASN:O	1:t:732:LEU:HD21	2.19	0.43
1:v:321:GLN:NE2	1:w:340:SER:HA	2.34	0.43
1:x:219:ASP:N	1:x:408:GLY:O	2.52	0.43
1:y:340:SER:HA	1:8:321:GLN:NE2	2.34	0.43
1:z:219:ASP:N	1:z:408:GLY:O	2.52	0.43
1:7:252:TYR:OH	1:7:374:ILE:O	2.27	0.43
1:7:350:TYR:OH	1:7:643:PRO:O	2.25	0.43
1:8:483:SER:HB2	1:8:524:MET:HE3	2.00	0.43
1:A:343:GLN:HA	1:A:403:GLN:O	2.18	0.42
1:A:625:THR:HG21	1:I:606:VAL:CG1	2.49	0.42
1:B:590:GLN:HG2	1:J:497:ASN:ND2	2.33	0.42
1:E:606:VAL:CG1	1:Q:625:THR:HG21	2.48	0.42
1:F:219:ASP:N	1:F:408:GLY:O	2.52	0.42
1:G:219:ASP:N	1:G:408:GLY:O	2.52	0.42
1:H:219:ASP:N	1:H:408:GLY:O	2.52	0.42
1:J:219:ASP:N	1:J:408:GLY:O	2.52	0.42
1:J:590:GLN:HG2	1:L:497:ASN:ND2	2.33	0.42
1:L:219:ASP:N	1:L:408:GLY:O	2.52	0.42
1:L:303:ASN:O	1:L:732:LEU:HD21	2.19	0.42
1:L:707:LYS:H	1:L:707:LYS:HG3	1.47	0.42
1:M:314:ASN:HB3	1:M:682:GLU:HB3	2.01	0.42
1:N:219:ASP:N	1:N:408:GLY:O	2.52	0.42
1:N:561:THR:HG23	1:N:613:TYR:OH	2.18	0.42
1:O:219:ASP:N	1:O:408:GLY:O	2.52	0.42
1:Q:314:ASN:HB3	1:Q:682:GLU:HB3	2.01	0.42
1:Q:321:GLN:NE2	1:S:340:SER:HA	2.34	0.42
1:Q:570:ASN:HD21	1:Q:607:TRP:CB	2.27	0.42
1:T:219:ASP:N	1:T:408:GLY:O	2.52	0.42
1:T:497:ASN:ND2	1:f:590:GLN:HG2	2.33	0.42
1:X:297:ASP:OD2	1:Y:399:TYR:OH	2.36	0.42
1:X:303:ASN:O	1:X:732:LEU:HD21	2.19	0.42
1:X:561:THR:HG23	1:X:613:TYR:OH	2.18	0.42
1:X:625:THR:HG21	1:5:606:VAL:CG1	2.49	0.42
1:Y:219:ASP:N	1:Y:408:GLY:O	2.52	0.42
1:Z:219:ASP:N	1:Z:408:GLY:O	2.52	0.42
1:4:219:ASP:N	1:4:408:GLY:O	2.52	0.42
1:6:625:THR:HG21	1:a:606:VAL:CG1	2.49	0.42
1:a:321:GLN:NE2	1:u:340:SER:HA	2.34	0.42
1:c:561:THR:HG23	1:c:613:TYR:OH	2.18	0.42
1:f:219:ASP:N	1:f:408:GLY:O	2.52	0.42
1:i:219:ASP:N	1:i:408:GLY:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:303:ASN:O	1:i:732:LEU:HD21	2.19	0.42
1:i:561:THR:HG23	1:i:613:TYR:OH	2.18	0.42
1:k:497:ASN:ND2	1:m:590:GLN:HG2	2.33	0.42
1:n:497:ASN:ND2	1:p:590:GLN:HG2	2.33	0.42
1:o:317:LEU:CD2	1:o:679:VAL:HG22	2.49	0.42
1:o:321:GLN:NE2	1:v:340:SER:HA	2.34	0.42
1:r:303:ASN:O	1:r:732:LEU:HD21	2.19	0.42
1:s:314:ASN:HB3	1:s:682:GLU:HB3	2.01	0.42
1:v:219:ASP:N	1:v:408:GLY:O	2.52	0.42
1:y:219:ASP:N	1:y:408:GLY:O	2.52	0.42
1:y:303:ASN:O	1:y:732:LEU:HD21	2.19	0.42
1:8:219:ASP:N	1:8:408:GLY:O	2.52	0.42
1:A:219:ASP:N	1:A:408:GLY:O	2.52	0.42
1:A:317:LEU:CD2	1:A:679:VAL:HG22	2.50	0.42
1:C:303:ASN:O	1:C:732:LEU:HD21	2.19	0.42
1:F:314:ASN:HB3	1:F:682:GLU:HB3	2.01	0.42
1:F:398:GLU:HB2	1:R:368:PRO:HB2	2.00	0.42
1:I:317:LEU:CD2	1:I:679:VAL:HG22	2.49	0.42
1:I:321:GLN:NE2	1:J:340:SER:HA	2.34	0.42
1:M:303:ASN:O	1:M:732:LEU:HD21	2.19	0.42
1:M:625:THR:HG21	1:2:606:VAL:CG1	2.49	0.42
1:N:368:PRO:HB2	1:g:398:GLU:HB2	2.00	0.42
1:O:590:GLN:HG2	1:g:497:ASN:ND2	2.33	0.42
1:R:343:GLN:HA	1:R:403:GLN:O	2.18	0.42
1:R:398:GLU:O	1:V:228:TRP:NE1	2.45	0.42
1:S:290:HIS:CG	1:S:366:PRO:HB3	2.53	0.42
1:T:398:GLU:HB2	1:c:368:PRO:HB2	2.00	0.42
1:U:321:GLN:NE2	1:5:340:SER:HA	2.34	0.42
1:U:368:PRO:HB2	1:5:398:GLU:HB2	2.00	0.42
1:V:303:ASN:O	1:V:732:LEU:HD21	2.19	0.42
1:X:317:LEU:CD2	1:X:679:VAL:HG22	2.50	0.42
1:Y:297:ASP:OD2	1:x:399:TYR:OH	2.36	0.42
1:Z:252:TYR:OH	1:Z:374:ILE:O	2.27	0.42
1:Z:483:SER:HB2	1:Z:524:MET:HE3	2.00	0.42
1:3:340:SER:HA	1:m:321:GLN:NE2	2.34	0.42
1:3:398:GLU:HB2	1:m:368:PRO:HB2	2.00	0.42
1:a:303:ASN:O	1:a:732:LEU:HD21	2.19	0.42
1:c:606:VAL:CG1	1:d:625:THR:HG21	2.48	0.42
1:g:219:ASP:N	1:g:408:GLY:O	2.52	0.42
1:g:707:LYS:H	1:g:707:LYS:HG3	1.47	0.42
1:h:219:ASP:N	1:h:408:GLY:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:317:LEU:CD2	1:i:679:VAL:HG22	2.50	0.42
1:k:554:ASP:HB2	1:k:557:LYS:HZ3	1.84	0.42
1:k:606:VAL:CG1	1:l:625:THR:HG21	2.49	0.42
1:p:219:ASP:N	1:p:408:GLY:O	2.52	0.42
1:s:570:ASN:HD21	1:s:607:TRP:CB	2.27	0.42
1:t:219:ASP:N	1:t:408:GLY:O	2.52	0.42
1:7:219:ASP:N	1:7:408:GLY:O	2.52	0.42
1:7:303:ASN:O	1:7:732:LEU:HD21	2.19	0.42
1:8:317:LEU:CD2	1:8:679:VAL:HG22	2.50	0.42
1:A:303:ASN:O	1:A:732:LEU:HD21	2.19	0.42
1:J:606:VAL:CG1	1:L:625:THR:HG21	2.49	0.42
1:K:399:TYR:OH	1:7:297:ASP:OD2	2.36	0.42
1:M:321:GLN:NE2	1:N:340:SER:HA	2.34	0.42
1:N:343:GLN:HA	1:N:403:GLN:O	2.18	0.42
1:N:590:GLN:HG2	1:P:497:ASN:ND2	2.33	0.42
1:O:303:ASN:O	1:O:732:LEU:HD21	2.19	0.42
1:O:317:LEU:CD2	1:O:679:VAL:HG22	2.50	0.42
1:P:314:ASN:HB3	1:P:682:GLU:HB3	2.01	0.42
1:R:497:ASN:ND2	1:U:590:GLN:HG2	2.33	0.42
1:R:606:VAL:CG1	1:S:625:THR:HG21	2.49	0.42
1:R:625:THR:HG21	1:U:606:VAL:CG1	2.49	0.42
1:W:317:LEU:CD2	1:W:679:VAL:HG22	2.50	0.42
1:Y:252:TYR:OH	1:Y:374:ILE:O	2.27	0.42
1:Z:317:LEU:CD2	1:Z:679:VAL:HG22	2.50	0.42
1:5:343:GLN:HA	1:5:403:GLN:O	2.18	0.42
1:b:314:ASN:HB3	1:b:682:GLU:HB3	2.01	0.42
1:c:343:GLN:HA	1:c:403:GLN:O	2.18	0.42
1:d:383:ASN:ND2	1:d:385:GLY:O	2.52	0.42
1:f:303:ASN:O	1:f:732:LEU:HD21	2.19	0.42
1:f:317:LEU:CD2	1:f:679:VAL:HG22	2.50	0.42
1:g:434:ARG:HD3	1:g:434:ARG:HA	1.89	0.42
1:j:303:ASN:O	1:j:732:LEU:HD21	2.19	0.42
1:l:290:HIS:CG	1:l:366:PRO:HB3	2.53	0.42
1:l:317:LEU:CD2	1:l:679:VAL:HG22	2.50	0.42
1:l:599:GLN:OE1	1:m:598:ASN:ND2	2.39	0.42
1:o:228:TRP:NE1	1:v:398:GLU:O	2.45	0.42
1:p:317:LEU:CD2	1:p:679:VAL:HG22	2.50	0.42
1:q:606:VAL:CG1	1:r:625:THR:HG21	2.49	0.42
1:r:570:ASN:HD21	1:r:607:TRP:CB	2.27	0.42
1:t:625:THR:HG21	1:v:606:VAL:CG1	2.49	0.42
1:z:317:LEU:CD2	1:z:679:VAL:HG22	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:ASN:HB3	1:B:682:GLU:HB3	2.01	0.42
1:D:303:ASN:O	1:D:732:LEU:HD21	2.19	0.42
1:D:350:TYR:OH	1:D:643:PRO:O	2.25	0.42
1:D:383:ASN:ND2	1:D:385:GLY:O	2.52	0.42
1:L:314:ASN:HB3	1:L:682:GLU:HB3	2.01	0.42
1:N:321:GLN:NE2	1:g:340:SER:HA	2.34	0.42
1:N:606:VAL:CG1	1:P:625:THR:HG21	2.48	0.42
1:O:599:GLN:OE1	1:g:598:ASN:ND2	2.39	0.42
1:P:383:ASN:ND2	1:P:385:GLY:O	2.52	0.42
1:Q:297:ASP:OD2	1:S:399:TYR:OH	2.36	0.42
1:S:317:LEU:CD2	1:S:679:VAL:HG22	2.50	0.42
1:T:340:SER:HA	1:c:321:GLN:NE2	2.34	0.42
1:V:590:GLN:HG2	1:5:497:ASN:ND2	2.33	0.42
1:Y:303:ASN:O	1:Y:732:LEU:HD21	2.19	0.42
1:Y:570:ASN:HD21	1:Y:607:TRP:CB	2.27	0.42
1:3:343:GLN:HA	1:3:403:GLN:O	2.18	0.42
1:6:290:HIS:CG	1:6:366:PRO:HB3	2.53	0.42
1:6:606:VAL:CG1	1:b:625:THR:HG21	2.49	0.42
1:a:350:TYR:OH	1:a:643:PRO:O	2.25	0.42
1:b:303:ASN:O	1:b:732:LEU:HD21	2.19	0.42
1:c:590:GLN:HG2	1:d:497:ASN:ND2	2.33	0.42
1:d:483:SER:HB2	1:d:524:MET:HE3	2.00	0.42
1:e:303:ASN:O	1:e:732:LEU:HD21	2.19	0.42
1:e:383:ASN:ND2	1:e:385:GLY:O	2.52	0.42
1:h:303:ASN:O	1:h:732:LEU:HD21	2.19	0.42
1:i:314:ASN:HB3	1:i:682:GLU:HB3	2.01	0.42
1:l:340:SER:HA	1:r:321:GLN:NE2	2.34	0.42
1:p:303:ASN:O	1:p:732:LEU:HD21	2.19	0.42
1:p:340:SER:HA	1:u:321:GLN:NE2	2.34	0.42
1:t:606:VAL:CG1	1:u:625:THR:HG21	2.49	0.42
1:u:314:ASN:HB3	1:u:682:GLU:HB3	2.01	0.42
1:x:570:ASN:HD21	1:x:607:TRP:CB	2.27	0.42
1:z:350:TYR:OH	1:z:643:PRO:O	2.25	0.42
1:8:252:TYR:OH	1:8:374:ILE:O	2.27	0.42
1:A:340:SER:HA	1:B:321:GLN:NE2	2.34	0.42
1:A:367:PHE:HA	1:A:368:PRO:HD3	1.90	0.42
1:B:303:ASN:O	1:B:732:LEU:HD21	2.19	0.42
1:B:383:ASN:ND2	1:B:385:GLY:O	2.52	0.42
1:H:317:LEU:CD2	1:H:679:VAL:HG22	2.50	0.42
1:H:321:GLN:NE2	1:I:340:SER:HA	2.34	0.42
1:I:303:ASN:O	1:I:732:LEU:HD21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:483:SER:HB2	1:P:524:MET:HE3	2.00	0.42
1:T:350:TYR:OH	1:T:643:PRO:O	2.25	0.42
1:X:314:ASN:HB3	1:X:682:GLU:HB3	2.01	0.42
1:1:303:ASN:O	1:1:732:LEU:HD21	2.19	0.42
1:3:434:ARG:HD3	1:3:434:ARG:HA	1.89	0.42
1:3:497:ASN:ND2	1:j:590:GLN:HG2	2.33	0.42
1:4:290:HIS:CG	1:4:366:PRO:HB3	2.53	0.42
1:6:219:ASP:N	1:6:408:GLY:O	2.52	0.42
1:b:321:GLN:NE2	1:c:340:SER:HA	2.34	0.42
1:d:314:ASN:HB3	1:d:682:GLU:HB3	2.01	0.42
1:d:340:SER:HA	1:f:321:GLN:NE2	2.34	0.42
1:f:340:SER:HA	1:h:321:GLN:NE2	2.34	0.42
1:h:290:HIS:CG	1:h:366:PRO:HB3	2.53	0.42
1:k:219:ASP:N	1:k:408:GLY:O	2.52	0.42
1:k:625:THR:HG21	1:m:606:VAL:CG1	2.49	0.42
1:t:314:ASN:HB3	1:t:682:GLU:HB3	2.01	0.42
1:w:303:ASN:O	1:w:732:LEU:HD21	2.19	0.42
1:x:473:VAL:O	1:x:473:VAL:HG12	2.20	0.42
1:y:317:LEU:CD2	1:y:679:VAL:HG22	2.50	0.42
1:y:383:ASN:ND2	1:y:385:GLY:O	2.52	0.42
1:B:625:THR:HG21	1:L:606:VAL:CG1	2.49	0.42
1:E:550:ARG:HH12	1:F:441:ASP:CG	2.16	0.42
1:H:297:ASP:OD2	1:I:399:TYR:OH	2.35	0.42
1:H:383:ASN:ND2	1:H:385:GLY:O	2.52	0.42
1:K:321:GLN:NE2	1:L:340:SER:HA	2.34	0.42
1:K:340:SER:HA	1:7:321:GLN:NE2	2.34	0.42
1:K:473:VAL:O	1:K:473:VAL:HG12	2.20	0.42
1:N:314:ASN:HB3	1:N:682:GLU:HB3	2.01	0.42
1:N:473:VAL:O	1:N:473:VAL:HG12	2.20	0.42
1:O:340:SER:HA	1:4:321:GLN:NE2	2.34	0.42
1:R:219:ASP:N	1:R:408:GLY:O	2.52	0.42
1:R:483:SER:HB2	1:R:524:MET:HE3	2.00	0.42
1:V:317:LEU:CD2	1:V:679:VAL:HG22	2.50	0.42
1:W:606:VAL:CG1	1:Y:625:THR:HG21	2.49	0.42
1:X:497:ASN:ND2	1:5:590:GLN:HG2	2.35	0.42
1:Y:321:GLN:NE2	1:x:340:SER:HA	2.34	0.42
1:2:219:ASP:N	1:2:408:GLY:O	2.52	0.42
1:2:290:HIS:CG	1:2:366:PRO:HB3	2.53	0.42
1:3:590:GLN:HG2	1:i:497:ASN:ND2	2.35	0.42
1:4:303:ASN:O	1:4:732:LEU:HD21	2.19	0.42
1:c:314:ASN:HB3	1:c:682:GLU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:473:VAL:O	1:c:473:VAL:HG12	2.20	0.42
1:e:317:LEU:CD2	1:e:679:VAL:HG22	2.50	0.42
1:k:483:SER:HB2	1:k:524:MET:HE3	2.00	0.42
1:o:340:SER:HA	1:y:321:GLN:NE2	2.34	0.42
1:t:340:SER:HA	1:x:321:GLN:NE2	2.34	0.42
1:u:303:ASN:O	1:u:732:LEU:HD21	2.19	0.42
1:w:238:ARG:HD3	1:w:686:GLU:HA	2.02	0.42
1:z:462:LYS:NZ	1:7:554:ASP:OD1	2.31	0.42
1:D:219:ASP:N	1:D:408:GLY:O	2.52	0.42
1:D:317:LEU:CD2	1:D:679:VAL:HG22	2.50	0.42
1:E:590:GLN:HG2	1:Q:497:ASN:ND2	2.34	0.42
1:I:228:TRP:NE1	1:J:398:GLU:O	2.45	0.42
1:I:473:VAL:O	1:I:473:VAL:HG12	2.20	0.42
1:L:317:LEU:CD2	1:L:679:VAL:HG22	2.50	0.42
1:O:321:GLN:NE2	1:P:340:SER:HA	2.34	0.42
1:1:238:ARG:HD3	1:1:686:GLU:HA	2.02	0.42
1:2:314:ASN:HB3	1:2:682:GLU:HB3	2.01	0.42
1:2:350:TYR:OH	1:2:643:PRO:O	2.25	0.42
1:6:314:ASN:HB3	1:6:682:GLU:HB3	2.01	0.42
1:6:350:TYR:OH	1:6:643:PRO:O	2.25	0.42
1:a:625:THR:HG21	1:b:606:VAL:CG1	2.49	0.42
1:g:317:LEU:CD2	1:g:679:VAL:HG22	2.50	0.42
1:j:317:LEU:CD2	1:j:679:VAL:HG22	2.50	0.42
1:m:317:LEU:CD2	1:m:679:VAL:HG22	2.50	0.42
1:o:303:ASN:O	1:o:732:LEU:HD21	2.19	0.42
1:o:399:TYR:OH	1:y:297:ASP:OD2	2.35	0.42
1:o:473:VAL:HG12	1:o:473:VAL:O	2.20	0.42
1:p:398:GLU:O	1:u:228:TRP:NE1	2.45	0.42
1:q:550:ARG:HH12	1:s:441:ASP:CG	2.16	0.42
1:t:317:LEU:CD2	1:t:679:VAL:HG22	2.50	0.42
1:v:317:LEU:CD2	1:v:679:VAL:HG22	2.50	0.42
1:z:606:VAL:CG1	1:7:625:THR:HG21	2.49	0.42
1:7:570:ASN:HD21	1:7:607:TRP:CB	2.27	0.42
1:B:317:LEU:CD2	1:B:679:VAL:HG22	2.50	0.42
1:C:350:TYR:OH	1:C:643:PRO:O	2.25	0.42
1:D:238:ARG:HD3	1:D:686:GLU:HA	2.02	0.42
1:D:434:ARG:HD3	1:D:434:ARG:HA	1.89	0.42
1:E:303:ASN:O	1:E:732:LEU:HD21	2.19	0.42
1:E:473:VAL:O	1:E:473:VAL:HG12	2.20	0.42
1:G:303:ASN:O	1:G:732:LEU:HD21	2.19	0.42
1:I:570:ASN:HD21	1:I:607:TRP:CB	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:317:LEU:CD2	1:J:679:VAL:HG22	2.50	0.42
1:K:570:ASN:HD21	1:K:607:TRP:CB	2.27	0.42
1:L:321:GLN:NE2	1:2:340:SER:HA	2.34	0.42
1:L:473:VAL:HG12	1:L:473:VAL:O	2.20	0.42
1:N:317:LEU:CD2	1:N:679:VAL:HG22	2.50	0.42
1:N:554:ASP:HB2	1:N:557:LYS:HZ3	1.84	0.42
1:P:321:GLN:NE2	1:Q:340:SER:HA	2.34	0.42
1:Q:219:ASP:N	1:Q:408:GLY:O	2.52	0.42
1:R:473:VAL:O	1:R:473:VAL:HG12	2.20	0.42
1:T:317:LEU:CD2	1:T:679:VAL:HG22	2.50	0.42
1:U:317:LEU:CD2	1:U:679:VAL:HG22	2.50	0.42
1:2:317:LEU:CD2	1:2:679:VAL:HG22	2.50	0.42
1:2:473:VAL:O	1:2:473:VAL:HG12	2.20	0.42
1:5:219:ASP:N	1:5:408:GLY:O	2.52	0.42
1:6:317:LEU:CD2	1:6:679:VAL:HG22	2.49	0.42
1:c:317:LEU:CD2	1:c:679:VAL:HG22	2.50	0.42
1:e:219:ASP:N	1:e:408:GLY:O	2.52	0.42
1:e:238:ARG:HD3	1:e:686:GLU:HA	2.02	0.42
1:g:238:ARG:HD3	1:g:686:GLU:HA	2.02	0.42
1:k:228:TRP:NE1	1:s:398:GLU:O	2.45	0.42
1:k:473:VAL:O	1:k:473:VAL:HG12	2.20	0.42
1:m:314:ASN:HB3	1:m:682:GLU:HB3	2.01	0.42
1:n:303:ASN:O	1:n:732:LEU:HD21	2.19	0.42
1:q:303:ASN:O	1:q:732:LEU:HD21	2.19	0.42
1:r:219:ASP:N	1:r:408:GLY:O	2.52	0.42
1:t:473:VAL:O	1:t:473:VAL:HG12	2.20	0.42
1:8:473:VAL:O	1:8:473:VAL:HG12	2.20	0.42
1:C:219:ASP:N	1:C:408:GLY:O	2.52	0.42
1:F:317:LEU:CD2	1:F:679:VAL:HG22	2.50	0.42
1:F:550:ARG:HH12	1:Q:441:ASP:CG	2.16	0.42
1:G:238:ARG:HD3	1:G:686:GLU:HA	2.02	0.42
1:G:317:LEU:CD2	1:G:679:VAL:HG22	2.50	0.42
1:G:473:VAL:O	1:G:473:VAL:HG12	2.20	0.42
1:J:383:ASN:ND2	1:J:385:GLY:O	2.52	0.42
1:K:303:ASN:O	1:K:732:LEU:HD21	2.19	0.42
1:K:398:GLU:O	1:7:228:TRP:NE1	2.45	0.42
1:M:317:LEU:CD2	1:M:679:VAL:HG22	2.50	0.42
1:P:317:LEU:CD2	1:P:679:VAL:HG22	2.50	0.42
1:Q:317:LEU:CD2	1:Q:679:VAL:HG22	2.49	0.42
1:R:317:LEU:CD2	1:R:679:VAL:HG22	2.50	0.42
1:T:238:ARG:HD3	1:T:686:GLU:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:434:ARG:HD3	1:T:434:ARG:HA	1.89	0.42
1:U:314:ASN:HB3	1:U:682:GLU:HB3	2.01	0.42
1:W:350:TYR:OH	1:W:643:PRO:O	2.25	0.42
1:X:321:GLN:NE2	1:Y:340:SER:HA	2.34	0.42
1:Z:473:VAL:O	1:Z:473:VAL:HG12	2.20	0.42
1:1:317:LEU:CD2	1:1:679:VAL:HG22	2.50	0.42
1:3:219:ASP:N	1:3:408:GLY:O	2.52	0.42
1:5:473:VAL:O	1:5:473:VAL:HG12	2.20	0.42
1:6:340:SER:HA	1:t:321:GLN:NE2	2.34	0.42
1:6:473:VAL:O	1:6:473:VAL:HG12	2.20	0.42
1:6:497:ASN:ND2	1:a:590:GLN:HG2	2.35	0.42
1:a:219:ASP:N	1:a:408:GLY:O	2.52	0.42
1:a:497:ASN:ND2	1:b:590:GLN:HG2	2.35	0.42
1:b:317:LEU:CD2	1:b:679:VAL:HG22	2.50	0.42
1:d:321:GLN:NE2	1:r:340:SER:HA	2.34	0.42
1:i:321:GLN:NE2	1:7:340:SER:HA	2.34	0.42
1:k:303:ASN:O	1:k:732:LEU:HD21	2.19	0.42
1:k:317:LEU:CD2	1:k:679:VAL:HG22	2.50	0.42
1:m:303:ASN:O	1:m:732:LEU:HD21	2.19	0.42
1:n:473:VAL:O	1:n:473:VAL:HG12	2.20	0.42
1:p:314:ASN:HB3	1:p:682:GLU:HB3	2.01	0.42
1:q:473:VAL:O	1:q:473:VAL:HG12	2.20	0.42
1:s:317:LEU:CD2	1:s:679:VAL:HG22	2.49	0.42
1:u:473:VAL:O	1:u:473:VAL:HG12	2.20	0.42
1:A:398:GLU:O	1:B:228:TRP:NE1	2.45	0.42
1:B:473:VAL:O	1:B:473:VAL:HG12	2.20	0.42
1:K:297:ASP:OD2	1:L:399:TYR:OH	2.35	0.42
1:K:317:LEU:CD2	1:K:679:VAL:HG22	2.50	0.42
1:R:303:ASN:O	1:R:732:LEU:HD21	2.19	0.42
1:S:297:ASP:OD2	1:4:399:TYR:OH	2.36	0.42
1:T:321:GLN:NE2	1:U:340:SER:HA	2.34	0.42
1:U:303:ASN:O	1:U:732:LEU:HD21	2.19	0.42
1:W:303:ASN:O	1:W:732:LEU:HD21	2.19	0.42
1:Y:228:TRP:NE1	1:x:398:GLU:O	2.45	0.42
1:Y:317:LEU:CD2	1:Y:679:VAL:HG22	2.49	0.42
1:Z:399:TYR:OH	1:1:297:ASP:OD2	2.36	0.42
1:a:473:VAL:O	1:a:473:VAL:HG12	2.20	0.42
1:b:473:VAL:O	1:b:473:VAL:HG12	2.20	0.42
1:c:303:ASN:O	1:c:732:LEU:HD21	2.19	0.42
1:d:317:LEU:CD2	1:d:679:VAL:HG22	2.50	0.42
1:f:398:GLU:O	1:h:228:TRP:NE1	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:707:LYS:H	1:h:707:LYS:HG3	1.47	0.42
1:i:473:VAL:O	1:i:473:VAL:HG12	2.20	0.42
1:m:383:ASN:ND2	1:m:385:GLY:O	2.52	0.42
1:n:238:ARG:HD3	1:n:686:GLU:HA	2.02	0.42
1:n:317:LEU:CD2	1:n:679:VAL:HG22	2.50	0.42
1:p:297:ASP:OD2	1:q:399:TYR:OH	2.36	0.42
1:p:367:PHE:HA	1:p:368:PRO:HD3	1.90	0.42
1:r:317:LEU:CD2	1:r:679:VAL:HG22	2.50	0.42
1:r:383:ASN:ND2	1:r:385:GLY:O	2.52	0.42
1:r:441:ASP:CG	1:s:550:ARG:HH12	2.16	0.42
1:t:399:TYR:OH	1:x:297:ASP:OD2	2.36	0.42
1:u:317:LEU:CD2	1:u:679:VAL:HG22	2.50	0.42
1:v:383:ASN:ND2	1:v:385:GLY:O	2.52	0.42
1:w:317:LEU:CD2	1:w:679:VAL:HG22	2.50	0.42
1:x:238:ARG:HD3	1:x:686:GLU:HA	2.02	0.42
1:x:303:ASN:O	1:x:732:LEU:HD21	2.19	0.42
1:x:317:LEU:CD2	1:x:679:VAL:HG22	2.50	0.42
1:7:317:LEU:CD2	1:7:679:VAL:HG22	2.50	0.42
1:7:473:VAL:O	1:7:473:VAL:HG12	2.20	0.42
1:A:314:ASN:HB3	1:A:682:GLU:HB3	2.01	0.41
1:C:252:TYR:OH	1:C:374:ILE:O	2.27	0.41
1:C:473:VAL:O	1:C:473:VAL:HG12	2.20	0.41
1:E:238:ARG:HD3	1:E:686:GLU:HA	2.02	0.41
1:F:398:GLU:O	1:R:228:TRP:NE1	2.45	0.41
1:F:497:ASN:ND2	1:Q:590:GLN:HG2	2.34	0.41
1:K:238:ARG:HD3	1:K:686:GLU:HA	2.02	0.41
1:M:473:VAL:O	1:M:473:VAL:HG12	2.20	0.41
1:O:398:GLU:O	1:4:228:TRP:NE1	2.45	0.41
1:O:473:VAL:O	1:O:473:VAL:HG12	2.20	0.41
1:P:554:ASP:HB2	1:P:557:LYS:HZ3	1.84	0.41
1:Q:434:ARG:HD3	1:Q:434:ARG:HA	1.89	0.41
1:U:473:VAL:HG12	1:U:473:VAL:O	2.20	0.41
1:V:473:VAL:O	1:V:473:VAL:HG12	2.20	0.41
1:W:238:ARG:HD3	1:W:686:GLU:HA	2.02	0.41
1:W:462:LYS:NZ	1:Y:554:ASP:OD1	2.31	0.41
1:X:473:VAL:O	1:X:473:VAL:HG12	2.20	0.41
1:Y:314:ASN:HB3	1:Y:682:GLU:HB3	2.01	0.41
1:Y:473:VAL:O	1:Y:473:VAL:HG12	2.20	0.41
1:Z:314:ASN:HB3	1:Z:682:GLU:HB3	2.01	0.41
1:3:317:LEU:CD2	1:3:679:VAL:HG22	2.50	0.41
1:3:473:VAL:O	1:3:473:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:317:LEU:CD2	1:5:679:VAL:HG22	2.50	0.41
1:d:399:TYR:OH	1:f:297:ASP:OD2	2.35	0.41
1:d:434:ARG:HA	1:d:434:ARG:HD3	1.89	0.41
1:f:473:VAL:O	1:f:473:VAL:HG12	2.20	0.41
1:g:321:GLN:NE2	1:m:340:SER:HA	2.34	0.41
1:h:399:TYR:OH	1:l:297:ASP:OD2	2.36	0.41
1:i:297:ASP:OD2	1:7:399:TYR:OH	2.36	0.41
1:j:473:VAL:O	1:j:473:VAL:HG12	2.20	0.41
1:l:473:VAL:O	1:l:473:VAL:HG12	2.20	0.41
1:m:238:ARG:HD3	1:m:686:GLU:HA	2.02	0.41
1:m:473:VAL:HG12	1:m:473:VAL:O	2.20	0.41
1:q:238:ARG:HD3	1:q:686:GLU:HA	2.02	0.41
1:q:317:LEU:CD2	1:q:679:VAL:HG22	2.49	0.41
1:x:314:ASN:HB3	1:x:682:GLU:HB3	2.01	0.41
1:z:303:ASN:O	1:z:732:LEU:HD21	2.19	0.41
1:z:570:ASN:HD21	1:z:607:TRP:CB	2.27	0.41
1:8:314:ASN:HB3	1:8:682:GLU:HB3	2.01	0.41
1:C:238:ARG:HD3	1:C:686:GLU:HA	2.02	0.41
1:E:317:LEU:CD2	1:E:679:VAL:HG22	2.50	0.41
1:H:473:VAL:O	1:H:473:VAL:HG12	2.20	0.41
1:N:303:ASN:O	1:N:732:LEU:HD21	2.19	0.41
1:O:297:ASP:OD2	1:P:399:TYR:OH	2.35	0.41
1:Q:383:ASN:ND2	1:Q:385:GLY:O	2.52	0.41
1:U:238:ARG:HD3	1:U:686:GLU:HA	2.02	0.41
1:U:383:ASN:ND2	1:U:385:GLY:O	2.52	0.41
1:3:238:ARG:HD3	1:3:686:GLU:HA	2.02	0.41
1:4:238:ARG:HD3	1:4:686:GLU:HA	2.02	0.41
1:4:473:VAL:O	1:4:473:VAL:HG12	2.20	0.41
1:5:238:ARG:HD3	1:5:686:GLU:HA	2.02	0.41
1:6:303:ASN:O	1:6:732:LEU:HD21	2.19	0.41
1:a:238:ARG:HD3	1:a:686:GLU:HA	2.02	0.41
1:f:314:ASN:HB3	1:f:682:GLU:HB3	2.01	0.41
1:h:238:ARG:HD3	1:h:686:GLU:HA	2.02	0.41
1:i:238:ARG:HD3	1:i:686:GLU:HA	2.02	0.41
1:n:398:GLU:O	1:s:228:TRP:NE1	2.45	0.41
1:n:434:ARG:HA	1:n:434:ARG:HD3	1.89	0.41
1:o:570:ASN:HD21	1:o:607:TRP:CB	2.27	0.41
1:s:350:TYR:OH	1:s:643:PRO:O	2.25	0.41
1:t:434:ARG:HD3	1:t:434:ARG:HA	1.89	0.41
1:z:238:ARG:HD3	1:z:686:GLU:HA	2.02	0.41
1:z:314:ASN:HB3	1:z:682:GLU:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:314:ASN:HB3	1:7:682:GLU:HB3	2.01	0.41
1:8:303:ASN:O	1:8:732:LEU:HD21	2.19	0.41
1:D:473:VAL:HG12	1:D:473:VAL:O	2.20	0.41
1:E:434:ARG:HD3	1:E:434:ARG:HA	1.89	0.41
1:J:238:ARG:HD3	1:J:686:GLU:HA	2.02	0.41
1:K:314:ASN:HB3	1:K:682:GLU:HB3	2.01	0.41
1:L:238:ARG:HD3	1:L:686:GLU:HA	2.02	0.41
1:M:554:ASP:HB2	1:M:557:LYS:HZ3	1.85	0.41
1:N:238:ARG:HD3	1:N:686:GLU:HA	2.02	0.41
1:R:314:ASN:HB3	1:R:682:GLU:HB3	2.01	0.41
1:S:473:VAL:O	1:S:473:VAL:HG12	2.20	0.41
1:W:314:ASN:HB3	1:W:682:GLU:HB3	2.01	0.41
1:W:570:ASN:HD21	1:W:607:TRP:CB	2.27	0.41
1:X:238:ARG:HD3	1:X:686:GLU:HA	2.02	0.41
1:2:303:ASN:O	1:2:732:LEU:HD21	2.19	0.41
1:3:367:PHE:HA	1:3:368:PRO:HD3	1.90	0.41
1:c:238:ARG:HD3	1:c:686:GLU:HA	2.02	0.41
1:d:554:ASP:HB2	1:d:557:LYS:HZ3	1.84	0.41
1:h:473:VAL:O	1:h:473:VAL:HG12	2.20	0.41
1:t:238:ARG:HD3	1:t:686:GLU:HA	2.02	0.41
1:v:303:ASN:O	1:v:732:LEU:HD21	2.19	0.41
1:w:297:ASP:OD2	1:8:399:TYR:OH	2.36	0.41
1:x:383:ASN:ND2	1:x:385:GLY:O	2.52	0.41
1:y:473:VAL:O	1:y:473:VAL:HG12	2.20	0.41
1:A:297:ASP:OD2	1:E:399:TYR:OH	2.36	0.41
1:C:317:LEU:CD2	1:C:679:VAL:HG22	2.50	0.41
1:F:228:TRP:NE1	1:G:398:GLU:O	2.45	0.41
1:I:707:LYS:H	1:I:707:LYS:HG3	1.47	0.41
1:J:303:ASN:O	1:J:732:LEU:HD21	2.19	0.41
1:J:570:ASN:HD21	1:J:607:TRP:CB	2.27	0.41
1:L:434:ARG:HD3	1:L:434:ARG:HA	1.89	0.41
1:M:497:ASN:ND2	1:2:590:GLN:HG2	2.35	0.41
1:O:314:ASN:HB3	1:O:682:GLU:HB3	2.01	0.41
1:Q:238:ARG:HD3	1:Q:686:GLU:HA	2.02	0.41
1:R:570:ASN:HD21	1:R:607:TRP:CB	2.27	0.41
1:W:473:VAL:O	1:W:473:VAL:HG12	2.20	0.41
1:Z:303:ASN:O	1:Z:732:LEU:HD21	2.19	0.41
1:4:317:LEU:CD2	1:4:679:VAL:HG22	2.50	0.41
1:a:317:LEU:CD2	1:a:679:VAL:HG22	2.50	0.41
1:b:554:ASP:HB2	1:b:557:LYS:HZ3	1.85	0.41
1:e:434:ARG:HD3	1:e:434:ARG:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:473:VAL:O	1:e:473:VAL:HG12	2.20	0.41
1:k:570:ASN:HD21	1:k:607:TRP:CB	2.27	0.41
1:o:707:LYS:H	1:o:707:LYS:HG3	1.47	0.41
1:p:228:TRP:NE1	1:q:398:GLU:O	2.45	0.41
1:r:238:ARG:HD3	1:r:686:GLU:HA	2.02	0.41
1:r:434:ARG:HD3	1:r:434:ARG:HA	1.89	0.41
1:v:238:ARG:HD3	1:v:686:GLU:HA	2.02	0.41
1:w:570:ASN:HD21	1:w:607:TRP:CB	2.27	0.41
1:z:473:VAL:O	1:z:473:VAL:HG12	2.20	0.41
1:B:433:ASP:HB3	1:J:509:TRP:HH2	1.86	0.41
1:D:284:PHE:CZ	1:D:317:LEU:HD21	2.56	0.41
1:E:383:ASN:ND2	1:E:385:GLY:O	2.52	0.41
1:F:473:VAL:O	1:F:473:VAL:HG12	2.20	0.41
1:K:383:ASN:ND2	1:K:385:GLY:O	2.52	0.41
1:X:350:TYR:OH	1:X:643:PRO:O	2.25	0.41
1:1:570:ASN:HD21	1:1:607:TRP:CB	2.27	0.41
1:6:399:TYR:OH	1:t:297:ASP:OD2	2.36	0.41
1:6:509:TRP:CH2	1:a:433:ASP:HB3	2.56	0.41
1:6:590:GLN:HG2	1:b:497:ASN:ND2	2.35	0.41
1:c:497:ASN:ND2	1:e:590:GLN:HG2	2.33	0.41
1:d:473:VAL:O	1:d:473:VAL:HG12	2.20	0.41
1:h:317:LEU:CD2	1:h:679:VAL:HG22	2.50	0.41
1:k:314:ASN:HB3	1:k:682:GLU:HB3	2.01	0.41
1:q:383:ASN:ND2	1:q:385:GLY:O	2.52	0.41
1:s:473:VAL:O	1:s:473:VAL:HG12	2.20	0.41
1:t:550:ARG:HH12	1:v:441:ASP:CG	2.17	0.41
1:u:433:ASP:HB3	1:v:509:TRP:HH2	1.86	0.41
1:v:473:VAL:O	1:v:473:VAL:HG12	2.20	0.41
1:v:570:ASN:HD21	1:v:607:TRP:CB	2.27	0.41
1:F:350:TYR:OH	1:F:643:PRO:O	2.25	0.41
1:J:473:VAL:O	1:J:473:VAL:HG12	2.20	0.41
1:K:434:ARG:HA	1:K:434:ARG:HD3	1.89	0.41
1:M:238:ARG:HD3	1:M:686:GLU:HA	2.02	0.41
1:P:367:PHE:HA	1:P:368:PRO:HD3	1.90	0.41
1:Q:323:LYS:HE3	1:S:654:VAL:HG11	2.03	0.41
1:R:433:ASP:HB3	1:S:509:TRP:HH2	1.86	0.41
1:X:509:TRP:HH2	1:5:433:ASP:HB3	1.86	0.41
1:2:238:ARG:HD3	1:2:686:GLU:HA	2.02	0.41
1:3:441:ASP:CG	1:i:550:ARG:HH12	2.16	0.41
1:a:398:GLU:O	1:e:228:TRP:NE1	2.45	0.41
1:a:554:ASP:HB2	1:a:557:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:238:ARG:HD3	1:b:686:GLU:HA	2.02	0.41
1:b:367:PHE:HA	1:b:368:PRO:HD3	1.90	0.41
1:e:284:PHE:CZ	1:e:317:LEU:HD21	2.56	0.41
1:k:383:ASN:ND2	1:k:385:GLY:O	2.52	0.41
1:k:433:ASP:HB3	1:l:509:TRP:HH2	1.86	0.41
1:k:509:TRP:HH2	1:m:433:ASP:HB3	1.86	0.41
1:q:690:GLU:HG2	1:q:692:SER:H	1.86	0.41
1:8:238:ARG:HD3	1:8:686:GLU:HA	2.02	0.41
1:A:238:ARG:HD3	1:A:686:GLU:HA	2.02	0.41
1:A:323:LYS:HE3	1:E:654:VAL:HG11	2.03	0.41
1:E:690:GLU:HG2	1:E:692:SER:H	1.86	0.41
1:G:284:PHE:CZ	1:G:317:LEU:HD21	2.56	0.41
1:I:238:ARG:HD3	1:I:686:GLU:HA	2.02	0.41
1:I:284:PHE:CZ	1:I:317:LEU:HD21	2.56	0.41
1:L:297:ASP:OD2	1:2:399:TYR:OH	2.36	0.41
1:M:367:PHE:HA	1:M:368:PRO:HD3	1.90	0.41
1:R:509:TRP:HH2	1:U:433:ASP:HB3	1.86	0.41
1:V:690:GLU:HG2	1:V:692:SER:H	1.86	0.41
1:3:433:ASP:HB3	1:i:509:TRP:HH2	1.86	0.41
1:4:707:LYS:H	1:4:707:LYS:HG3	1.47	0.41
1:5:323:LYS:HE3	1:b:654:VAL:HG11	2.02	0.41
1:a:509:TRP:HH2	1:b:433:ASP:HB3	1.86	0.41
1:a:654:VAL:HG11	1:e:323:LYS:HE3	2.02	0.41
1:d:690:GLU:HG2	1:d:692:SER:H	1.86	0.41
1:k:238:ARG:HD3	1:k:686:GLU:HA	2.02	0.41
1:m:284:PHE:CZ	1:m:317:LEU:HD21	2.56	0.41
1:n:284:PHE:CZ	1:n:317:LEU:HD21	2.56	0.41
1:o:238:ARG:HD3	1:o:686:GLU:HA	2.02	0.41
1:o:284:PHE:CZ	1:o:317:LEU:HD21	2.56	0.41
1:p:238:ARG:HD3	1:p:686:GLU:HA	2.02	0.41
1:p:284:PHE:CZ	1:p:317:LEU:HD21	2.56	0.41
1:x:690:GLU:HG2	1:x:692:SER:H	1.86	0.41
1:8:383:ASN:ND2	1:8:385:GLY:O	2.52	0.41
1:A:284:PHE:CZ	1:A:317:LEU:HD21	2.56	0.41
1:A:433:ASP:HB3	1:G:509:TRP:HH2	1.86	0.41
1:C:284:PHE:CZ	1:C:317:LEU:HD21	2.56	0.41
1:D:590:GLN:HG2	1:N:497:ASN:ND2	2.33	0.41
1:E:433:ASP:HB3	1:Q:509:TRP:HH2	1.86	0.41
1:E:570:ASN:HD21	1:E:607:TRP:CB	2.27	0.41
1:F:284:PHE:CZ	1:F:317:LEU:HD21	2.56	0.41
1:G:434:ARG:HA	1:G:434:ARG:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:690:GLU:HG2	1:J:692:SER:H	1.86	0.41
1:K:690:GLU:HG2	1:K:692:SER:H	1.86	0.41
1:L:484:TYR:CE2	1:L:507:SER:HB3	2.56	0.41
1:M:654:VAL:HG11	1:3:323:LYS:HE3	2.02	0.41
1:N:690:GLU:HG2	1:N:692:SER:H	1.86	0.41
1:O:654:VAL:HG11	1:4:323:LYS:HE3	2.03	0.41
1:P:473:VAL:O	1:P:473:VAL:HG12	2.20	0.41
1:P:690:GLU:HG2	1:P:692:SER:H	1.86	0.41
1:R:238:ARG:HD3	1:R:686:GLU:HA	2.02	0.41
1:R:383:ASN:ND2	1:R:385:GLY:O	2.52	0.41
1:T:590:GLN:HG2	1:4:497:ASN:ND2	2.33	0.41
1:U:284:PHE:CZ	1:U:317:LEU:HD21	2.56	0.41
1:U:690:GLU:HG2	1:U:692:SER:H	1.86	0.41
1:Y:284:PHE:CZ	1:Y:317:LEU:HD21	2.56	0.41
1:Z:238:ARG:HD3	1:Z:686:GLU:HA	2.02	0.41
1:1:286:PHE:CE1	1:1:313:LEU:HD11	2.56	0.41
1:2:284:PHE:CZ	1:2:317:LEU:HD21	2.56	0.41
1:6:238:ARG:HD3	1:6:686:GLU:HA	2.02	0.41
1:6:284:PHE:CZ	1:6:317:LEU:HD21	2.56	0.41
1:a:690:GLU:HG2	1:a:692:SER:H	1.86	0.41
1:b:383:ASN:ND2	1:b:385:GLY:O	2.52	0.41
1:c:690:GLU:HG2	1:c:692:SER:H	1.86	0.41
1:d:323:LYS:HE3	1:r:654:VAL:HG11	2.03	0.41
1:f:284:PHE:CZ	1:f:317:LEU:HD21	2.56	0.41
1:f:654:VAL:HG11	1:h:323:LYS:HE3	2.03	0.41
1:g:383:ASN:ND2	1:g:385:GLY:O	2.52	0.41
1:h:286:PHE:CE1	1:h:313:LEU:HD11	2.56	0.41
1:j:690:GLU:HG2	1:j:692:SER:H	1.86	0.41
1:l:433:ASP:HB3	1:m:509:TRP:HH2	1.86	0.41
1:l:654:VAL:HG11	1:r:323:LYS:HE3	2.03	0.41
1:o:314:ASN:HB3	1:o:682:GLU:HB3	2.01	0.41
1:q:434:ARG:HD3	1:q:434:ARG:HA	1.89	0.41
1:r:284:PHE:CZ	1:r:317:LEU:HD21	2.56	0.41
1:s:284:PHE:CZ	1:s:317:LEU:HD21	2.56	0.41
1:v:690:GLU:HG2	1:v:692:SER:H	1.86	0.41
1:A:228:TRP:NE1	1:E:398:GLU:O	2.45	0.41
1:A:286:PHE:CE1	1:A:313:LEU:HD11	2.56	0.41
1:A:473:VAL:HG12	1:A:473:VAL:O	2.20	0.41
1:B:238:ARG:HD3	1:B:686:GLU:HA	2.02	0.41
1:B:509:TRP:HH2	1:L:433:ASP:HB3	1.86	0.41
1:C:367:PHE:HA	1:C:368:PRO:HD3	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:433:ASP:HB3	1:2:509:TRP:CH2	2.56	0.41
1:C:690:GLU:HG2	1:C:692:SER:H	1.86	0.41
1:F:634:LEU:HD23	1:F:634:LEU:HA	1.94	0.41
1:H:509:TRP:HH2	1:Y:433:ASP:HB3	1.86	0.41
1:I:314:ASN:HB3	1:I:682:GLU:HB3	2.01	0.41
1:J:323:LYS:HE3	1:1:654:VAL:HG11	2.03	0.41
1:J:441:ASP:CG	1:L:550:ARG:HH12	2.17	0.41
1:L:286:PHE:CE1	1:L:313:LEU:HD11	2.56	0.41
1:M:383:ASN:ND2	1:M:385:GLY:O	2.52	0.41
1:N:284:PHE:CZ	1:N:317:LEU:HD21	2.56	0.41
1:N:383:ASN:ND2	1:N:385:GLY:O	2.52	0.41
1:O:252:TYR:OH	1:O:374:ILE:O	2.27	0.41
1:O:284:PHE:CZ	1:O:317:LEU:HD21	2.56	0.41
1:O:441:ASP:CG	1:g:550:ARG:HH12	2.16	0.41
1:P:323:LYS:HE3	1:Q:654:VAL:HG11	2.03	0.41
1:Q:284:PHE:CZ	1:Q:317:LEU:HD21	2.56	0.41
1:R:284:PHE:CZ	1:R:317:LEU:HD21	2.56	0.41
1:R:286:PHE:CE1	1:R:313:LEU:HD11	2.56	0.41
1:S:433:ASP:HB3	1:U:509:TRP:HH2	1.86	0.41
1:T:323:LYS:HE3	1:U:654:VAL:HG11	2.03	0.41
1:T:383:ASN:ND2	1:T:385:GLY:O	2.52	0.41
1:T:473:VAL:HG12	1:T:473:VAL:O	2.20	0.41
1:T:690:GLU:HG2	1:T:692:SER:H	1.86	0.41
1:U:246:THR:HB	1:U:371:VAL:HG22	2.03	0.41
1:W:484:TYR:CE2	1:W:507:SER:HB3	2.56	0.41
1:X:286:PHE:CE1	1:X:313:LEU:HD11	2.56	0.41
1:Y:690:GLU:HG2	1:Y:692:SER:H	1.86	0.41
1:Z:383:ASN:ND2	1:Z:385:GLY:O	2.52	0.41
1:1:284:PHE:CZ	1:1:317:LEU:HD21	2.56	0.41
1:2:690:GLU:HG2	1:2:692:SER:H	1.86	0.41
1:4:286:PHE:CE1	1:4:313:LEU:HD11	2.56	0.41
1:5:367:PHE:HA	1:5:368:PRO:HD3	1.90	0.41
1:6:690:GLU:HG2	1:6:692:SER:H	1.86	0.41
1:a:284:PHE:CZ	1:a:317:LEU:HD21	2.56	0.41
1:c:284:PHE:CZ	1:c:317:LEU:HD21	2.56	0.41
1:c:383:ASN:ND2	1:c:385:GLY:O	2.52	0.41
1:d:238:ARG:HD3	1:d:686:GLU:HA	2.02	0.41
1:g:323:LYS:HE3	1:m:654:VAL:HG11	2.03	0.41
1:g:473:VAL:HG12	1:g:473:VAL:O	2.20	0.41
1:i:286:PHE:CE1	1:i:313:LEU:HD11	2.56	0.41
1:i:350:TYR:OH	1:i:643:PRO:O	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:284:PHE:CZ	1:j:317:LEU:HD21	2.56	0.41
1:j:323:LYS:HE3	1:k:654:VAL:HG11	2.03	0.41
1:k:286:PHE:CE1	1:k:313:LEU:HD11	2.56	0.41
1:m:246:THR:HB	1:m:371:VAL:HG22	2.03	0.41
1:m:690:GLU:HG2	1:m:692:SER:H	1.86	0.41
1:n:690:GLU:HG2	1:n:692:SER:H	1.86	0.41
1:p:286:PHE:CE1	1:p:313:LEU:HD11	2.56	0.41
1:p:323:LYS:HE3	1:q:654:VAL:HG11	2.03	0.41
1:p:473:VAL:O	1:p:473:VAL:HG12	2.20	0.41
1:r:554:ASP:HB2	1:r:557:LYS:HZ3	1.86	0.41
1:s:383:ASN:ND2	1:s:385:GLY:O	2.52	0.41
1:t:286:PHE:CE1	1:t:313:LEU:HD11	2.56	0.41
1:t:433:ASP:HB3	1:u:509:TRP:HH2	1.86	0.41
1:t:484:TYR:CE2	1:t:507:SER:HB3	2.56	0.41
1:u:238:ARG:HD3	1:u:686:GLU:HA	2.02	0.41
1:u:599:GLN:OE1	1:v:598:ASN:ND2	2.39	0.41
1:w:284:PHE:CZ	1:w:317:LEU:HD21	2.56	0.41
1:w:286:PHE:CE1	1:w:313:LEU:HD11	2.56	0.41
1:y:519:ASN:HB3	1:y:520:PRO:CD	2.49	0.41
1:z:484:TYR:CE2	1:z:507:SER:HB3	2.56	0.41
1:7:284:PHE:CZ	1:7:317:LEU:HD21	2.56	0.41
1:8:286:PHE:CE1	1:8:313:LEU:HD11	2.56	0.41
1:F:383:ASN:ND2	1:F:385:GLY:O	2.52	0.41
1:F:690:GLU:HG2	1:F:692:SER:H	1.86	0.41
1:G:690:GLU:HG2	1:G:692:SER:H	1.86	0.41
1:G:690:GLU:CD	1:H:296:ARG:HH21	2.29	0.41
1:H:286:PHE:CE1	1:H:313:LEU:HD11	2.56	0.41
1:I:323:LYS:HE3	1:J:654:VAL:HG11	2.03	0.41
1:J:433:ASP:HB3	1:L:509:TRP:CH2	2.56	0.41
1:L:284:PHE:CZ	1:L:317:LEU:HD21	2.56	0.41
1:L:690:GLU:HG2	1:L:692:SER:H	1.86	0.41
1:M:509:TRP:HH2	1:2:433:ASP:HB3	1.86	0.41
1:O:286:PHE:CE1	1:O:313:LEU:HD11	2.56	0.41
1:O:484:TYR:CE2	1:O:507:SER:HB3	2.56	0.41
1:P:238:ARG:HD3	1:P:686:GLU:HA	2.02	0.41
1:Q:473:VAL:HG12	1:Q:473:VAL:O	2.20	0.41
1:R:654:VAL:HG11	1:V:323:LYS:HE3	2.03	0.41
1:S:433:ASP:HB3	1:U:509:TRP:CH2	2.56	0.41
1:T:433:ASP:HB3	1:4:509:TRP:HH2	1.86	0.41
1:V:284:PHE:CZ	1:V:317:LEU:HD21	2.56	0.41
1:W:690:GLU:CD	1:X:296:ARG:HH21	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:550:ARG:HH12	1:5:441:ASP:CG	2.16	0.41
1:Z:286:PHE:CE1	1:Z:313:LEU:HD11	2.56	0.41
1:1:473:VAL:O	1:1:473:VAL:HG12	2.20	0.41
1:3:654:VAL:HG11	1:m:323:LYS:HE3	2.03	0.41
1:4:284:PHE:CZ	1:4:317:LEU:HD21	2.56	0.41
1:b:284:PHE:CZ	1:b:317:LEU:HD21	2.56	0.41
1:d:367:PHE:HA	1:d:368:PRO:HD3	1.90	0.41
1:e:519:ASN:HB3	1:e:520:PRO:CD	2.49	0.41
1:f:286:PHE:CE1	1:f:313:LEU:HD11	2.56	0.41
1:f:484:TYR:CE2	1:f:507:SER:HB3	2.56	0.41
1:g:433:ASP:HB3	1:h:509:TRP:HH2	1.86	0.41
1:g:690:GLU:HG2	1:g:692:SER:H	1.86	0.41
1:h:654:VAL:HG11	1:l:323:LYS:HE3	2.03	0.41
1:i:296:ARG:HH21	1:z:690:GLU:CD	2.29	0.41
1:k:284:PHE:CZ	1:k:317:LEU:HD21	2.56	0.41
1:l:433:ASP:HB3	1:m:509:TRP:CH2	2.56	0.41
1:o:323:LYS:HE3	1:v:654:VAL:HG11	2.03	0.41
1:o:434:ARG:HD3	1:o:434:ARG:HA	1.89	0.41
1:q:433:ASP:HB3	1:r:509:TRP:HH2	1.86	0.41
1:t:509:TRP:CH2	1:v:433:ASP:HB3	2.56	0.41
1:t:690:GLU:HG2	1:t:692:SER:H	1.86	0.41
1:u:484:TYR:CE2	1:u:507:SER:HB3	2.56	0.41
1:v:323:LYS:HE3	1:w:654:VAL:HG11	2.03	0.41
1:x:434:ARG:HA	1:x:434:ARG:HD3	1.89	0.41
1:y:286:PHE:CE1	1:y:313:LEU:HD11	2.56	0.41
1:y:509:TRP:HH2	1:7:433:ASP:HB3	1.86	0.41
1:7:690:GLU:HG2	1:7:692:SER:H	1.86	0.41
1:7:690:GLU:CD	1:8:296:ARG:HH21	2.29	0.41
1:B:484:TYR:CE2	1:B:507:SER:HB3	2.56	0.40
1:B:654:VAL:HG11	1:C:323:LYS:HE3	2.03	0.40
1:C:398:GLU:O	1:D:228:TRP:NE1	2.45	0.40
1:H:238:ARG:HD3	1:H:686:GLU:HA	2.02	0.40
1:H:246:THR:HB	1:H:371:VAL:HG22	2.03	0.40
1:H:323:LYS:HE3	1:I:654:VAL:HG11	2.03	0.40
1:H:519:ASN:HB3	1:H:520:PRO:CD	2.49	0.40
1:I:434:ARG:HA	1:I:434:ARG:HD3	1.89	0.40
1:J:484:TYR:CE2	1:J:507:SER:HB3	2.56	0.40
1:L:285:ASP:O	1:L:363:CYS:HA	2.22	0.40
1:M:284:PHE:CZ	1:M:317:LEU:HD21	2.56	0.40
1:M:286:PHE:CE1	1:M:313:LEU:HD11	2.56	0.40
1:N:286:PHE:CE1	1:N:313:LEU:HD11	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:323:LYS:HE3	1:g:654:VAL:HG11	2.03	0.40
1:O:433:ASP:HB3	1:g:509:TRP:HH2	1.87	0.40
1:P:286:PHE:CE1	1:P:313:LEU:HD11	2.56	0.40
1:S:323:LYS:HE3	1:4:654:VAL:HG11	2.03	0.40
1:T:509:TRP:HH2	1:f:433:ASP:HB3	1.87	0.40
1:T:654:VAL:HG11	1:c:323:LYS:HE3	2.03	0.40
1:U:296:ARG:HH21	1:V:690:GLU:CD	2.29	0.40
1:U:323:LYS:HE3	1:5:654:VAL:HG11	2.03	0.40
1:V:286:PHE:CE1	1:V:313:LEU:HD11	2.56	0.40
1:X:383:ASN:ND2	1:X:385:GLY:O	2.52	0.40
1:Y:690:GLU:CD	1:Z:296:ARG:HH21	2.29	0.40
1:Z:284:PHE:CZ	1:Z:317:LEU:HD21	2.56	0.40
1:2:383:ASN:ND2	1:2:385:GLY:O	2.52	0.40
1:6:383:ASN:ND2	1:6:385:GLY:O	2.52	0.40
1:6:433:ASP:HB3	1:b:509:TRP:HH2	1.86	0.40
1:c:286:PHE:CE1	1:c:313:LEU:HD11	2.56	0.40
1:d:286:PHE:CE1	1:d:313:LEU:HD11	2.56	0.40
1:h:284:PHE:CZ	1:h:317:LEU:HD21	2.56	0.40
1:i:383:ASN:ND2	1:i:385:GLY:O	2.52	0.40
1:j:286:PHE:CE1	1:j:313:LEU:HD11	2.56	0.40
1:j:690:GLU:CD	1:m:296:ARG:HH21	2.29	0.40
1:n:509:TRP:HH2	1:p:433:ASP:HB3	1.86	0.40
1:n:690:GLU:CD	1:y:296:ARG:HH21	2.29	0.40
1:q:570:ASN:HD21	1:q:607:TRP:CB	2.27	0.40
1:r:473:VAL:O	1:r:473:VAL:HG12	2.20	0.40
1:t:284:PHE:CZ	1:t:317:LEU:HD21	2.56	0.40
1:t:285:ASP:O	1:t:363:CYS:HA	2.22	0.40
1:w:473:VAL:O	1:w:473:VAL:HG12	2.20	0.40
1:y:238:ARG:HD3	1:y:686:GLU:HA	2.02	0.40
1:y:246:THR:HB	1:y:371:VAL:HG22	2.03	0.40
1:8:284:PHE:CZ	1:8:317:LEU:HD21	2.56	0.40
1:8:484:TYR:CE2	1:8:507:SER:HB3	2.56	0.40
1:A:296:ARG:HH21	1:F:690:GLU:CD	2.29	0.40
1:D:690:GLU:HG2	1:D:692:SER:H	1.86	0.40
1:G:323:LYS:HE3	1:W:654:VAL:HG11	2.03	0.40
1:H:433:ASP:HB3	1:W:509:TRP:HH2	1.86	0.40
1:J:433:ASP:HB3	1:L:509:TRP:HH2	1.86	0.40
1:L:570:ASN:HD21	1:L:607:TRP:CB	2.27	0.40
1:T:286:PHE:CE1	1:T:313:LEU:HD11	2.56	0.40
1:T:550:ARG:HH12	1:f:441:ASP:CG	2.16	0.40
1:W:284:PHE:CZ	1:W:317:LEU:HD21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:286:PHE:CE1	1:W:313:LEU:HD11	2.56	0.40
1:W:383:ASN:ND2	1:W:385:GLY:O	2.52	0.40
1:X:654:VAL:HG11	1:6:323:LYS:HE3	2.02	0.40
1:Z:397:LEU:HA	1:Z:397:LEU:HD23	1.89	0.40
1:Z:484:TYR:CE2	1:Z:507:SER:HB3	2.56	0.40
1:4:690:GLU:HG2	1:4:692:SER:H	1.86	0.40
1:a:367:PHE:HA	1:a:368:PRO:HD3	1.90	0.40
1:b:286:PHE:CE1	1:b:313:LEU:HD11	2.56	0.40
1:d:284:PHE:CZ	1:d:317:LEU:HD21	2.56	0.40
1:j:399:TYR:OH	1:z:297:ASP:OD2	2.36	0.40
1:k:690:GLU:HG2	1:k:692:SER:H	1.86	0.40
1:o:654:VAL:HG11	1:y:323:LYS:HE3	2.03	0.40
1:p:350:TYR:OH	1:p:643:PRO:O	2.25	0.40
1:q:286:PHE:CE1	1:q:313:LEU:HD11	2.56	0.40
1:v:484:TYR:CE2	1:v:507:SER:HB3	2.56	0.40
1:z:383:ASN:ND2	1:z:385:GLY:O	2.52	0.40
1:z:690:GLU:HG2	1:z:692:SER:H	1.86	0.40
1:7:238:ARG:HD3	1:7:686:GLU:HA	2.02	0.40
1:A:433:ASP:HB3	1:G:509:TRP:CH2	2.57	0.40
1:A:442:GLN:HA	1:G:359:ALA:O	2.22	0.40
1:E:286:PHE:CE1	1:E:313:LEU:HD11	2.56	0.40
1:E:509:TRP:HH2	1:F:433:ASP:HB3	1.86	0.40
1:F:654:VAL:HG11	1:R:323:LYS:HE3	2.03	0.40
1:G:286:PHE:CE1	1:G:313:LEU:HD11	2.56	0.40
1:H:285:ASP:O	1:H:363:CYS:HA	2.22	0.40
1:K:246:THR:HB	1:K:371:VAL:HG22	2.04	0.40
1:K:284:PHE:CZ	1:K:317:LEU:HD21	2.56	0.40
1:M:285:ASP:O	1:M:363:CYS:HA	2.22	0.40
1:M:484:TYR:CE2	1:M:507:SER:HB3	2.56	0.40
1:M:509:TRP:CH2	1:2:433:ASP:HB3	2.56	0.40
1:O:238:ARG:HD3	1:O:686:GLU:HA	2.02	0.40
1:P:284:PHE:CZ	1:P:317:LEU:HD21	2.56	0.40
1:Q:690:GLU:HG2	1:Q:692:SER:H	1.86	0.40
1:R:509:TRP:CH2	1:U:433:ASP:HB3	2.56	0.40
1:S:285:ASP:O	1:S:363:CYS:HA	2.22	0.40
1:U:285:ASP:O	1:U:363:CYS:HA	2.22	0.40
1:W:690:GLU:HG2	1:W:692:SER:H	1.86	0.40
1:Y:434:ARG:HD3	1:Y:434:ARG:HA	1.89	0.40
1:Z:690:GLU:HG2	1:Z:692:SER:H	1.86	0.40
1:2:246:THR:HB	1:2:371:VAL:HG22	2.03	0.40
1:2:323:LYS:HE3	1:i:654:VAL:HG11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:285:ASP:O	1:b:363:CYS:HA	2.22	0.40
1:b:484:TYR:CE2	1:b:507:SER:HB3	2.56	0.40
1:d:228:TRP:NE1	1:r:398:GLU:O	2.45	0.40
1:e:690:GLU:HG2	1:e:692:SER:H	1.86	0.40
1:g:286:PHE:CE1	1:g:313:LEU:HD11	2.56	0.40
1:l:284:PHE:CZ	1:l:317:LEU:HD21	2.56	0.40
1:m:285:ASP:O	1:m:363:CYS:HA	2.22	0.40
1:n:286:PHE:CE1	1:n:313:LEU:HD11	2.56	0.40
1:n:323:LYS:HE3	1:z:654:VAL:HG11	2.03	0.40
1:n:433:ASP:HB3	1:o:509:TRP:CH2	2.57	0.40
1:o:252:TYR:OH	1:o:374:ILE:O	2.27	0.40
1:s:690:GLU:HG2	1:s:692:SER:H	1.86	0.40
1:t:570:ASN:HD21	1:t:607:TRP:CB	2.27	0.40
1:x:246:THR:HB	1:x:371:VAL:HG22	2.04	0.40
1:x:284:PHE:CZ	1:x:317:LEU:HD21	2.56	0.40
1:y:285:ASP:O	1:y:363:CYS:HA	2.22	0.40
1:z:284:PHE:CZ	1:z:317:LEU:HD21	2.56	0.40
1:z:286:PHE:CE1	1:z:313:LEU:HD11	2.56	0.40
1:8:690:GLU:HG2	1:8:692:SER:H	1.86	0.40
1:A:434:ARG:HD3	1:A:434:ARG:HA	1.89	0.40
1:B:286:PHE:CE1	1:B:313:LEU:HD11	2.56	0.40
1:B:599:GLN:OE1	1:J:598:ASN:ND2	2.39	0.40
1:D:246:THR:HB	1:D:371:VAL:HG22	2.03	0.40
1:D:397:LEU:HA	1:D:397:LEU:HD23	1.89	0.40
1:F:238:ARG:HD3	1:F:686:GLU:HA	2.02	0.40
1:F:323:LYS:HE3	1:G:654:VAL:HG11	2.03	0.40
1:G:433:ASP:HB3	1:I:509:TRP:CH2	2.57	0.40
1:H:284:PHE:CZ	1:H:317:LEU:HD21	2.56	0.40
1:J:442:GLN:HA	1:L:359:ALA:O	2.22	0.40
1:M:690:GLU:HG2	1:M:692:SER:H	1.86	0.40
1:N:433:ASP:HB3	1:P:509:TRP:HH2	1.86	0.40
1:P:228:TRP:NE1	1:Q:398:GLU:O	2.45	0.40
1:P:246:THR:HB	1:P:371:VAL:HG22	2.03	0.40
1:U:707:LYS:H	1:U:707:LYS:HG3	1.47	0.40
1:X:284:PHE:CZ	1:X:317:LEU:HD21	2.56	0.40
1:X:285:ASP:O	1:X:363:CYS:HA	2.22	0.40
1:Y:238:ARG:HD3	1:Y:686:GLU:HA	2.02	0.40
1:Y:296:ARG:HH21	1:Z:690:GLU:CD	2.29	0.40
1:Z:433:ASP:HB3	1:x:509:TRP:HH2	1.86	0.40
1:1:296:ARG:HH21	1:w:690:GLU:CD	2.29	0.40
1:1:383:ASN:ND2	1:1:385:GLY:O	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:690:GLU:HG2	1:5:692:SER:H	1.86	0.40
1:6:367:PHE:HA	1:6:368:PRO:HD3	1.90	0.40
1:6:433:ASP:HB3	1:b:509:TRP:CH2	2.56	0.40
1:b:246:THR:HB	1:b:371:VAL:HG22	2.04	0.40
1:c:367:PHE:HA	1:c:368:PRO:HD3	1.90	0.40
1:d:350:TYR:OH	1:d:643:PRO:O	2.25	0.40
1:e:246:THR:HB	1:e:371:VAL:HG22	2.03	0.40
1:f:238:ARG:HD3	1:f:686:GLU:HA	2.02	0.40
1:g:284:PHE:CZ	1:g:317:LEU:HD21	2.56	0.40
1:h:690:GLU:HG2	1:h:692:SER:H	1.86	0.40
1:i:690:GLU:HG2	1:i:692:SER:H	1.86	0.40
1:j:654:VAL:HG11	1:z:323:LYS:HE3	2.03	0.40
1:k:509:TRP:CH2	1:m:433:ASP:HB3	2.56	0.40
1:k:690:GLU:CD	1:r:296:ARG:HH21	2.30	0.40
1:l:285:ASP:O	1:l:363:CYS:HA	2.22	0.40
1:o:286:PHE:CE1	1:o:313:LEU:HD11	2.56	0.40
1:p:296:ARG:HH21	1:s:690:GLU:CD	2.30	0.40
1:q:509:TRP:HH2	1:s:433:ASP:HB3	1.86	0.40
1:r:286:PHE:CE1	1:r:313:LEU:HD11	2.56	0.40
1:r:690:GLU:HG2	1:r:692:SER:H	1.86	0.40
1:s:286:PHE:CE1	1:s:313:LEU:HD11	2.56	0.40
1:t:359:ALA:O	1:v:442:GLN:HA	2.22	0.40
1:t:509:TRP:HH2	1:v:433:ASP:HB3	1.86	0.40
1:u:286:PHE:CE1	1:u:313:LEU:HD11	2.56	0.40
1:v:286:PHE:CE1	1:v:313:LEU:HD11	2.56	0.40
1:y:433:ASP:HB3	1:z:509:TRP:HH2	1.86	0.40
1:E:397:LEU:HA	1:E:397:LEU:HD23	1.89	0.40
1:E:433:ASP:HB3	1:Q:509:TRP:CH2	2.57	0.40
1:F:286:PHE:CE1	1:F:313:LEU:HD11	2.56	0.40
1:H:434:ARG:HA	1:H:434:ARG:HD3	1.89	0.40
1:I:286:PHE:CE1	1:I:313:LEU:HD11	2.56	0.40
1:J:286:PHE:CE1	1:J:313:LEU:HD11	2.56	0.40
1:K:433:ASP:HB3	1:1:509:TRP:HH2	1.86	0.40
1:L:323:LYS:HE3	1:2:654:VAL:HG11	2.03	0.40
1:M:246:THR:HB	1:M:371:VAL:HG22	2.04	0.40
1:N:296:ARG:HH21	1:O:690:GLU:CD	2.29	0.40
1:Q:286:PHE:CE1	1:Q:313:LEU:HD11	2.56	0.40
1:Q:296:ARG:HH21	1:R:690:GLU:CD	2.30	0.40
1:R:690:GLU:HG2	1:R:692:SER:H	1.86	0.40
1:S:284:PHE:CZ	1:S:317:LEU:HD21	2.56	0.40
1:T:284:PHE:CZ	1:T:317:LEU:HD21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:654:VAL:HG11	1:W:323:LYS:HE3	2.03	0.40
1:1:690:GLU:CD	1:w:296:ARG:HH21	2.29	0.40
1:3:690:GLU:HG2	1:3:692:SER:H	1.86	0.40
1:4:296:ARG:HH21	1:h:690:GLU:CD	2.29	0.40
1:4:690:GLU:CD	1:h:296:ARG:HH21	2.29	0.40
1:5:286:PHE:CE1	1:5:313:LEU:HD11	2.56	0.40
1:6:246:THR:HB	1:6:371:VAL:HG22	2.04	0.40
1:6:509:TRP:HH2	1:a:433:ASP:HB3	1.85	0.40
1:6:654:VAL:HG11	1:t:323:LYS:HE3	2.03	0.40
1:a:286:PHE:CE1	1:a:313:LEU:HD11	2.56	0.40
1:a:290:HIS:HB2	1:a:366:PRO:HB3	2.04	0.40
1:a:509:TRP:CH2	1:b:433:ASP:HB3	2.56	0.40
1:b:690:GLU:HG2	1:b:692:SER:H	1.86	0.40
1:c:433:ASP:HB3	1:d:509:TRP:HH2	1.86	0.40
1:i:284:PHE:CZ	1:i:317:LEU:HD21	2.56	0.40
1:i:285:ASP:O	1:i:363:CYS:HA	2.22	0.40
1:j:238:ARG:HD3	1:j:686:GLU:HA	2.02	0.40
1:p:519:ASN:HB3	1:p:520:PRO:CD	2.49	0.40
1:r:599:GLN:OE1	1:s:598:ASN:ND2	2.39	0.40
1:s:238:ARG:HD3	1:s:686:GLU:HA	2.02	0.40
1:t:654:VAL:HG11	1:x:323:LYS:HE3	2.03	0.40
1:u:285:ASP:O	1:u:363:CYS:HA	2.22	0.40
1:u:442:GLN:HA	1:v:359:ALA:O	2.22	0.40
1:w:383:ASN:ND2	1:w:385:GLY:O	2.52	0.40
1:w:509:TRP:CH2	1:x:433:ASP:HB3	2.57	0.40
1:w:509:TRP:HH2	1:x:433:ASP:HB3	1.86	0.40
1:x:286:PHE:CE1	1:x:313:LEU:HD11	2.56	0.40
1:y:284:PHE:CZ	1:y:317:LEU:HD21	2.56	0.40
1:z:442:GLN:HA	1:7:359:ALA:O	2.22	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	2	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	3	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	4	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	5	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	6	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	7	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	8	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	A	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	B	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	C	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	D	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	E	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	F	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	G	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	H	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	I	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	J	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	K	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	L	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	M	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	N	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	O	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	P	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	Q	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	R	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	S	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	T	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	U	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	V	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	W	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	X	516/518 (100%)	502 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	Z	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	a	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	b	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	c	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	d	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	e	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	f	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	g	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	h	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	i	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	j	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	k	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	l	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	m	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	n	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	o	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	p	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	q	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	r	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	s	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	t	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	u	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	v	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	w	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	x	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	y	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
1	z	516/518 (100%)	502 (97%)	14 (3%)	0	100	100
All	All	30960/31080 (100%)	30120 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	2	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	3	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	4	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	5	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	6	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	7	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	8	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	A	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	B	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	C	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	D	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	E	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	F	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	G	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	H	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	I	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	J	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	K	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	L	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	M	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	N	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	O	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	P	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	Q	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	R	453/453 (100%)	450 (99%)	3 (1%)	81	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	T	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	U	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	V	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	W	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	X	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	Y	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	Z	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	a	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	b	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	c	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	d	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	e	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	f	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	g	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	h	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	i	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	j	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	k	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	l	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	m	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	n	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	o	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	p	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	q	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	r	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	s	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	t	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	u	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	v	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	w	453/453 (100%)	450 (99%)	3 (1%)	81	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	y	453/453 (100%)	450 (99%)	3 (1%)	81	89
1	z	453/453 (100%)	450 (99%)	3 (1%)	81	89
All	All	27180/27180 (100%)	27000 (99%)	180 (1%)	80	89

All (180) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	561	THR
1	A	612	VAL
1	A	707	LYS
1	B	561	THR
1	B	612	VAL
1	B	707	LYS
1	C	561	THR
1	C	612	VAL
1	C	707	LYS
1	D	561	THR
1	D	612	VAL
1	D	707	LYS
1	E	561	THR
1	E	612	VAL
1	E	707	LYS
1	F	561	THR
1	F	612	VAL
1	F	707	LYS
1	G	561	THR
1	G	612	VAL
1	G	707	LYS
1	H	561	THR
1	H	612	VAL
1	H	707	LYS
1	I	561	THR
1	I	612	VAL
1	I	707	LYS
1	J	561	THR
1	J	612	VAL
1	J	707	LYS
1	K	561	THR
1	K	612	VAL
1	K	707	LYS

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Mol	Chain	Res	Type
1	L	561	THR
1	L	612	VAL
1	L	707	LYS
1	M	561	THR
1	M	612	VAL
1	M	707	LYS
1	N	561	THR
1	N	612	VAL
1	N	707	LYS
1	O	561	THR
1	O	612	VAL
1	O	707	LYS
1	P	561	THR
1	P	612	VAL
1	P	707	LYS
1	Q	561	THR
1	Q	612	VAL
1	Q	707	LYS
1	R	561	THR
1	R	612	VAL
1	R	707	LYS
1	S	561	THR
1	S	612	VAL
1	S	707	LYS
1	T	561	THR
1	T	612	VAL
1	T	707	LYS
1	U	561	THR
1	U	612	VAL
1	U	707	LYS
1	V	561	THR
1	V	612	VAL
1	V	707	LYS
1	W	561	THR
1	W	612	VAL
1	W	707	LYS
1	X	561	THR
1	X	612	VAL
1	X	707	LYS
1	Y	561	THR
1	Y	612	VAL
1	Y	707	LYS

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Mol	Chain	Res	Type
1	Z	561	THR
1	Z	612	VAL
1	Z	707	LYS
1	1	561	THR
1	1	612	VAL
1	1	707	LYS
1	2	561	THR
1	2	612	VAL
1	2	707	LYS
1	3	561	THR
1	3	612	VAL
1	3	707	LYS
1	4	561	THR
1	4	612	VAL
1	4	707	LYS
1	5	561	THR
1	5	612	VAL
1	5	707	LYS
1	6	561	THR
1	6	612	VAL
1	6	707	LYS
1	a	561	THR
1	a	612	VAL
1	a	707	LYS
1	b	561	THR
1	b	612	VAL
1	b	707	LYS
1	c	561	THR
1	c	612	VAL
1	c	707	LYS
1	d	561	THR
1	d	612	VAL
1	d	707	LYS
1	e	561	THR
1	e	612	VAL
1	e	707	LYS
1	f	561	THR
1	f	612	VAL
1	f	707	LYS
1	g	561	THR
1	g	612	VAL
1	g	707	LYS

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Mol	Chain	Res	Type
1	h	561	THR
1	h	612	VAL
1	h	707	LYS
1	i	561	THR
1	i	612	VAL
1	i	707	LYS
1	j	561	THR
1	j	612	VAL
1	j	707	LYS
1	k	561	THR
1	k	612	VAL
1	k	707	LYS
1	l	561	THR
1	l	612	VAL
1	l	707	LYS
1	m	561	THR
1	m	612	VAL
1	m	707	LYS
1	n	561	THR
1	n	612	VAL
1	n	707	LYS
1	o	561	THR
1	o	612	VAL
1	o	707	LYS
1	p	561	THR
1	p	612	VAL
1	p	707	LYS
1	q	561	THR
1	q	612	VAL
1	q	707	LYS
1	r	561	THR
1	r	612	VAL
1	r	707	LYS
1	s	561	THR
1	s	612	VAL
1	s	707	LYS
1	t	561	THR
1	t	612	VAL
1	t	707	LYS
1	u	561	THR
1	u	612	VAL
1	u	707	LYS

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Mol	Chain	Res	Type
1	v	561	THR
1	v	612	VAL
1	v	707	LYS
1	w	561	THR
1	w	612	VAL
1	w	707	LYS
1	x	561	THR
1	x	612	VAL
1	x	707	LYS
1	y	561	THR
1	y	612	VAL
1	y	707	LYS
1	z	561	THR
1	z	612	VAL
1	z	707	LYS
1	7	561	THR
1	7	612	VAL
1	7	707	LYS
1	8	561	THR
1	8	612	VAL
1	8	707	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (686) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	304	ASN
1	A	428	HIS
1	A	497	ASN
1	A	512	ASN
1	A	527	HIS
1	A	585	GLN
1	A	624	HIS
1	A	646	GLN
1	A	673	GLN
1	A	700	GLN
1	B	290	HIS
1	B	304	ASN
1	B	428	HIS
1	B	497	ASN
1	B	512	ASN
1	B	527	HIS
1	B	584	HIS

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Mol	Chain	Res	Type
1	B	585	GLN
1	B	624	HIS
1	B	646	GLN
1	B	673	GLN
1	B	700	GLN
1	C	290	HIS
1	C	304	ASN
1	C	428	HIS
1	C	497	ASN
1	C	512	ASN
1	C	527	HIS
1	C	624	HIS
1	C	646	GLN
1	C	673	GLN
1	C	700	GLN
1	D	290	HIS
1	D	304	ASN
1	D	428	HIS
1	D	497	ASN
1	D	512	ASN
1	D	527	HIS
1	D	584	HIS
1	D	585	GLN
1	D	624	HIS
1	D	642	HIS
1	D	646	GLN
1	D	673	GLN
1	D	700	GLN
1	E	304	ASN
1	E	428	HIS
1	E	497	ASN
1	E	512	ASN
1	E	527	HIS
1	E	584	HIS
1	E	624	HIS
1	E	646	GLN
1	E	673	GLN
1	E	700	GLN
1	F	290	HIS
1	F	304	ASN
1	F	428	HIS
1	F	497	ASN

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Mol	Chain	Res	Type
1	F	512	ASN
1	F	527	HIS
1	F	585	GLN
1	F	624	HIS
1	F	646	GLN
1	F	673	GLN
1	F	700	GLN
1	G	290	HIS
1	G	304	ASN
1	G	428	HIS
1	G	497	ASN
1	G	512	ASN
1	G	527	HIS
1	G	584	HIS
1	G	585	GLN
1	G	624	HIS
1	G	646	GLN
1	G	673	GLN
1	G	700	GLN
1	H	304	ASN
1	H	428	HIS
1	H	497	ASN
1	H	512	ASN
1	H	527	HIS
1	H	584	HIS
1	H	624	HIS
1	H	646	GLN
1	H	673	GLN
1	H	700	GLN
1	I	290	HIS
1	I	304	ASN
1	I	428	HIS
1	I	497	ASN
1	I	512	ASN
1	I	527	HIS
1	I	584	HIS
1	I	585	GLN
1	I	624	HIS
1	I	646	GLN
1	I	673	GLN
1	I	700	GLN
1	J	290	HIS

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Mol	Chain	Res	Type
1	J	304	ASN
1	J	428	HIS
1	J	497	ASN
1	J	512	ASN
1	J	527	HIS
1	J	584	HIS
1	J	585	GLN
1	J	624	HIS
1	J	646	GLN
1	J	673	GLN
1	J	700	GLN
1	K	304	ASN
1	K	428	HIS
1	K	497	ASN
1	K	512	ASN
1	K	527	HIS
1	K	584	HIS
1	K	585	GLN
1	K	624	HIS
1	K	646	GLN
1	K	673	GLN
1	K	700	GLN
1	L	290	HIS
1	L	304	ASN
1	L	428	HIS
1	L	497	ASN
1	L	512	ASN
1	L	527	HIS
1	L	584	HIS
1	L	585	GLN
1	L	624	HIS
1	L	646	GLN
1	L	673	GLN
1	L	700	GLN
1	M	290	HIS
1	M	304	ASN
1	M	428	HIS
1	M	497	ASN
1	M	512	ASN
1	M	527	HIS
1	M	584	HIS
1	M	624	HIS

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Mol	Chain	Res	Type
1	M	646	GLN
1	M	673	GLN
1	M	700	GLN
1	N	290	HIS
1	N	304	ASN
1	N	428	HIS
1	N	497	ASN
1	N	512	ASN
1	N	527	HIS
1	N	584	HIS
1	N	585	GLN
1	N	624	HIS
1	N	642	HIS
1	N	646	GLN
1	N	673	GLN
1	N	700	GLN
1	O	290	HIS
1	O	304	ASN
1	O	428	HIS
1	O	497	ASN
1	O	512	ASN
1	O	527	HIS
1	O	585	GLN
1	O	624	HIS
1	O	646	GLN
1	O	673	GLN
1	O	700	GLN
1	P	290	HIS
1	P	304	ASN
1	P	428	HIS
1	P	497	ASN
1	P	512	ASN
1	P	527	HIS
1	P	584	HIS
1	P	624	HIS
1	P	646	GLN
1	P	673	GLN
1	P	700	GLN
1	Q	290	HIS
1	Q	304	ASN
1	Q	428	HIS
1	Q	497	ASN

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Mol	Chain	Res	Type
1	Q	512	ASN
1	Q	527	HIS
1	Q	584	HIS
1	Q	585	GLN
1	Q	624	HIS
1	Q	646	GLN
1	Q	673	GLN
1	Q	700	GLN
1	R	290	HIS
1	R	304	ASN
1	R	428	HIS
1	R	497	ASN
1	R	512	ASN
1	R	527	HIS
1	R	584	HIS
1	R	585	GLN
1	R	624	HIS
1	R	646	GLN
1	R	673	GLN
1	R	700	GLN
1	S	290	HIS
1	S	304	ASN
1	S	428	HIS
1	S	497	ASN
1	S	512	ASN
1	S	527	HIS
1	S	584	HIS
1	S	624	HIS
1	S	646	GLN
1	S	673	GLN
1	S	700	GLN
1	T	290	HIS
1	T	304	ASN
1	T	428	HIS
1	T	497	ASN
1	T	512	ASN
1	T	527	HIS
1	T	585	GLN
1	T	624	HIS
1	T	646	GLN
1	T	673	GLN
1	T	700	GLN

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Mol	Chain	Res	Type
1	U	290	HIS
1	U	304	ASN
1	U	428	HIS
1	U	497	ASN
1	U	512	ASN
1	U	527	HIS
1	U	584	HIS
1	U	585	GLN
1	U	624	HIS
1	U	646	GLN
1	U	673	GLN
1	U	700	GLN
1	V	290	HIS
1	V	304	ASN
1	V	428	HIS
1	V	497	ASN
1	V	512	ASN
1	V	527	HIS
1	V	584	HIS
1	V	624	HIS
1	V	646	GLN
1	V	673	GLN
1	V	700	GLN
1	W	290	HIS
1	W	304	ASN
1	W	428	HIS
1	W	497	ASN
1	W	512	ASN
1	W	527	HIS
1	W	585	GLN
1	W	624	HIS
1	W	646	GLN
1	W	673	GLN
1	W	700	GLN
1	X	290	HIS
1	X	304	ASN
1	X	428	HIS
1	X	497	ASN
1	X	512	ASN
1	X	527	HIS
1	X	584	HIS
1	X	624	HIS

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Mol	Chain	Res	Type
1	X	646	GLN
1	X	673	GLN
1	X	700	GLN
1	Y	290	HIS
1	Y	304	ASN
1	Y	428	HIS
1	Y	497	ASN
1	Y	512	ASN
1	Y	527	HIS
1	Y	584	HIS
1	Y	585	GLN
1	Y	624	HIS
1	Y	646	GLN
1	Y	673	GLN
1	Y	700	GLN
1	Z	290	HIS
1	Z	304	ASN
1	Z	428	HIS
1	Z	497	ASN
1	Z	512	ASN
1	Z	527	HIS
1	Z	584	HIS
1	Z	585	GLN
1	Z	624	HIS
1	Z	646	GLN
1	Z	673	GLN
1	Z	700	GLN
1	1	290	HIS
1	1	304	ASN
1	1	428	HIS
1	1	497	ASN
1	1	512	ASN
1	1	527	HIS
1	1	584	HIS
1	1	585	GLN
1	1	624	HIS
1	1	646	GLN
1	1	673	GLN
1	1	700	GLN
1	2	290	HIS
1	2	304	ASN
1	2	428	HIS

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Mol	Chain	Res	Type
1	2	497	ASN
1	2	512	ASN
1	2	527	HIS
1	2	584	HIS
1	2	624	HIS
1	2	646	GLN
1	2	673	GLN
1	2	700	GLN
1	3	290	HIS
1	3	304	ASN
1	3	428	HIS
1	3	497	ASN
1	3	512	ASN
1	3	527	HIS
1	3	584	HIS
1	3	624	HIS
1	3	646	GLN
1	3	673	GLN
1	3	700	GLN
1	4	290	HIS
1	4	304	ASN
1	4	321	GLN
1	4	428	HIS
1	4	497	ASN
1	4	512	ASN
1	4	527	HIS
1	4	584	HIS
1	4	585	GLN
1	4	624	HIS
1	4	646	GLN
1	4	673	GLN
1	4	700	GLN
1	5	290	HIS
1	5	304	ASN
1	5	428	HIS
1	5	497	ASN
1	5	512	ASN
1	5	527	HIS
1	5	584	HIS
1	5	624	HIS
1	5	646	GLN
1	5	673	GLN

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Mol	Chain	Res	Type
1	5	700	GLN
1	6	290	HIS
1	6	304	ASN
1	6	428	HIS
1	6	497	ASN
1	6	512	ASN
1	6	527	HIS
1	6	584	HIS
1	6	624	HIS
1	6	646	GLN
1	6	673	GLN
1	6	700	GLN
1	a	290	HIS
1	a	304	ASN
1	a	428	HIS
1	a	497	ASN
1	a	512	ASN
1	a	527	HIS
1	a	584	HIS
1	a	624	HIS
1	a	646	GLN
1	a	673	GLN
1	a	700	GLN
1	b	290	HIS
1	b	304	ASN
1	b	428	HIS
1	b	497	ASN
1	b	512	ASN
1	b	527	HIS
1	b	584	HIS
1	b	624	HIS
1	b	646	GLN
1	b	673	GLN
1	b	700	GLN
1	c	290	HIS
1	c	304	ASN
1	c	428	HIS
1	c	497	ASN
1	c	512	ASN
1	c	527	HIS
1	c	584	HIS
1	c	585	GLN

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Mol	Chain	Res	Type
1	c	624	HIS
1	c	642	HIS
1	c	646	GLN
1	c	673	GLN
1	c	700	GLN
1	d	290	HIS
1	d	304	ASN
1	d	428	HIS
1	d	497	ASN
1	d	512	ASN
1	d	527	HIS
1	d	584	HIS
1	d	585	GLN
1	d	624	HIS
1	d	646	GLN
1	d	673	GLN
1	d	700	GLN
1	e	290	HIS
1	e	304	ASN
1	e	428	HIS
1	e	497	ASN
1	e	512	ASN
1	e	527	HIS
1	e	584	HIS
1	e	585	GLN
1	e	624	HIS
1	e	646	GLN
1	e	673	GLN
1	e	700	GLN
1	f	290	HIS
1	f	304	ASN
1	f	428	HIS
1	f	497	ASN
1	f	512	ASN
1	f	527	HIS
1	f	585	GLN
1	f	624	HIS
1	f	646	GLN
1	f	673	GLN
1	f	700	GLN
1	g	290	HIS
1	g	304	ASN

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Mol	Chain	Res	Type
1	g	428	HIS
1	g	497	ASN
1	g	512	ASN
1	g	527	HIS
1	g	584	HIS
1	g	585	GLN
1	g	624	HIS
1	g	646	GLN
1	g	673	GLN
1	g	700	GLN
1	h	290	HIS
1	h	304	ASN
1	h	321	GLN
1	h	428	HIS
1	h	497	ASN
1	h	512	ASN
1	h	527	HIS
1	h	584	HIS
1	h	585	GLN
1	h	624	HIS
1	h	646	GLN
1	h	673	GLN
1	h	700	GLN
1	i	290	HIS
1	i	304	ASN
1	i	428	HIS
1	i	497	ASN
1	i	512	ASN
1	i	527	HIS
1	i	624	HIS
1	i	646	GLN
1	i	673	GLN
1	i	700	GLN
1	j	304	ASN
1	j	428	HIS
1	j	497	ASN
1	j	512	ASN
1	j	527	HIS
1	j	584	HIS
1	j	624	HIS
1	j	646	GLN
1	j	673	GLN

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Mol	Chain	Res	Type
1	j	700	GLN
1	k	290	HIS
1	k	304	ASN
1	k	428	HIS
1	k	497	ASN
1	k	512	ASN
1	k	527	HIS
1	k	584	HIS
1	k	585	GLN
1	k	624	HIS
1	k	646	GLN
1	k	673	GLN
1	k	700	GLN
1	l	290	HIS
1	l	304	ASN
1	l	428	HIS
1	l	497	ASN
1	l	512	ASN
1	l	527	HIS
1	l	584	HIS
1	l	585	GLN
1	l	624	HIS
1	l	646	GLN
1	l	673	GLN
1	l	700	GLN
1	m	304	ASN
1	m	428	HIS
1	m	497	ASN
1	m	512	ASN
1	m	527	HIS
1	m	584	HIS
1	m	624	HIS
1	m	646	GLN
1	m	673	GLN
1	m	700	GLN
1	n	290	HIS
1	n	304	ASN
1	n	428	HIS
1	n	497	ASN
1	n	512	ASN
1	n	527	HIS
1	n	584	HIS

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Mol	Chain	Res	Type
1	n	585	GLN
1	n	624	HIS
1	n	646	GLN
1	n	673	GLN
1	n	700	GLN
1	o	290	HIS
1	o	304	ASN
1	o	428	HIS
1	o	497	ASN
1	o	512	ASN
1	o	527	HIS
1	o	584	HIS
1	o	624	HIS
1	o	646	GLN
1	o	673	GLN
1	o	700	GLN
1	p	304	ASN
1	p	428	HIS
1	p	497	ASN
1	p	512	ASN
1	p	527	HIS
1	p	584	HIS
1	p	585	GLN
1	p	624	HIS
1	p	646	GLN
1	p	673	GLN
1	p	700	GLN
1	q	304	ASN
1	q	321	GLN
1	q	428	HIS
1	q	497	ASN
1	q	512	ASN
1	q	527	HIS
1	q	584	HIS
1	q	624	HIS
1	q	646	GLN
1	q	673	GLN
1	q	700	GLN
1	r	290	HIS
1	r	304	ASN
1	r	428	HIS
1	r	497	ASN

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Mol	Chain	Res	Type
1	r	512	ASN
1	r	527	HIS
1	r	585	GLN
1	r	624	HIS
1	r	646	GLN
1	r	673	GLN
1	r	700	GLN
1	s	290	HIS
1	s	304	ASN
1	s	428	HIS
1	s	497	ASN
1	s	512	ASN
1	s	527	HIS
1	s	585	GLN
1	s	624	HIS
1	s	646	GLN
1	s	673	GLN
1	s	700	GLN
1	t	290	HIS
1	t	304	ASN
1	t	428	HIS
1	t	497	ASN
1	t	512	ASN
1	t	527	HIS
1	t	584	HIS
1	t	585	GLN
1	t	624	HIS
1	t	646	GLN
1	t	673	GLN
1	t	700	GLN
1	u	290	HIS
1	u	304	ASN
1	u	428	HIS
1	u	497	ASN
1	u	512	ASN
1	u	527	HIS
1	u	584	HIS
1	u	585	GLN
1	u	624	HIS
1	u	646	GLN
1	u	673	GLN
1	u	700	GLN

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Mol	Chain	Res	Type
1	v	290	HIS
1	v	304	ASN
1	v	321	GLN
1	v	428	HIS
1	v	497	ASN
1	v	512	ASN
1	v	527	HIS
1	v	584	HIS
1	v	585	GLN
1	v	624	HIS
1	v	646	GLN
1	v	673	GLN
1	v	700	GLN
1	w	290	HIS
1	w	304	ASN
1	w	428	HIS
1	w	497	ASN
1	w	512	ASN
1	w	527	HIS
1	w	584	HIS
1	w	624	HIS
1	w	646	GLN
1	w	673	GLN
1	w	700	GLN
1	x	290	HIS
1	x	304	ASN
1	x	428	HIS
1	x	497	ASN
1	x	512	ASN
1	x	527	HIS
1	x	584	HIS
1	x	585	GLN
1	x	624	HIS
1	x	646	GLN
1	x	673	GLN
1	x	700	GLN
1	y	304	ASN
1	y	428	HIS
1	y	497	ASN
1	y	512	ASN
1	y	527	HIS
1	y	584	HIS

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Mol	Chain	Res	Type
1	y	624	HIS
1	y	646	GLN
1	y	673	GLN
1	y	700	GLN
1	z	290	HIS
1	z	304	ASN
1	z	428	HIS
1	z	497	ASN
1	z	512	ASN
1	z	527	HIS
1	z	584	HIS
1	z	585	GLN
1	z	624	HIS
1	z	646	GLN
1	z	673	GLN
1	z	700	GLN
1	7	290	HIS
1	7	304	ASN
1	7	428	HIS
1	7	497	ASN
1	7	512	ASN
1	7	527	HIS
1	7	584	HIS
1	7	624	HIS
1	7	646	GLN
1	7	673	GLN
1	7	700	GLN
1	8	290	HIS
1	8	304	ASN
1	8	428	HIS
1	8	497	ASN
1	8	512	ASN
1	8	527	HIS
1	8	584	HIS
1	8	585	GLN
1	8	624	HIS
1	8	646	GLN
1	8	673	GLN
1	8	700	GLN

### 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	h	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	Y	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	o	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	v	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	l	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	D	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	G	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	u	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	l	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	c	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	z	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	N	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	M	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	F	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	W	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	L	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	H	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	V	801	-	12,12,12	0.53	0	17,17,17	0.87	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	GAL	5	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	f	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	j	801	-	12,12,12	0.53	0	17,17,17	0.87	0
2	GAL	r	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	U	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	S	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	R	801	-	12,12,12	0.53	0	17,17,17	0.87	0
2	GAL	6	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	3	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	J	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	y	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	2	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	4	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	p	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	C	801	-	12,12,12	0.53	0	17,17,17	0.87	0
2	GAL	i	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	m	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	e	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	t	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	w	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	P	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	B	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	O	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	a	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	T	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	d	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	8	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	b	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	q	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	x	801	-	12,12,12	0.53	0	17,17,17	0.87	0
2	GAL	I	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	Z	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	g	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	n	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	K	801	-	12,12,12	0.52	0	17,17,17	0.87	0
2	GAL	X	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	Q	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	k	801	-	12,12,12	0.53	0	17,17,17	0.86	0
2	GAL	7	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	s	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	A	801	-	12,12,12	0.52	0	17,17,17	0.86	0
2	GAL	E	801	-	12,12,12	0.53	0	17,17,17	0.86	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	h	801	-	-	1/2/22/22	0/1/1/1
2	GAL	Y	801	-	-	1/2/22/22	0/1/1/1
2	GAL	o	801	-	-	1/2/22/22	0/1/1/1
2	GAL	v	801	-	-	1/2/22/22	0/1/1/1
2	GAL	l	801	-	-	1/2/22/22	0/1/1/1
2	GAL	D	801	-	-	1/2/22/22	0/1/1/1
2	GAL	G	801	-	-	1/2/22/22	0/1/1/1
2	GAL	u	801	-	-	1/2/22/22	0/1/1/1
2	GAL	l	801	-	-	1/2/22/22	0/1/1/1
2	GAL	c	801	-	-	1/2/22/22	0/1/1/1
2	GAL	z	801	-	-	1/2/22/22	0/1/1/1
2	GAL	N	801	-	-	1/2/22/22	0/1/1/1
2	GAL	M	801	-	-	1/2/22/22	0/1/1/1
2	GAL	F	801	-	-	1/2/22/22	0/1/1/1
2	GAL	W	801	-	-	1/2/22/22	0/1/1/1
2	GAL	L	801	-	-	1/2/22/22	0/1/1/1
2	GAL	H	801	-	-	1/2/22/22	0/1/1/1
2	GAL	V	801	-	-	1/2/22/22	0/1/1/1
2	GAL	5	801	-	-	1/2/22/22	0/1/1/1
2	GAL	f	801	-	-	1/2/22/22	0/1/1/1
2	GAL	j	801	-	-	1/2/22/22	0/1/1/1
2	GAL	r	801	-	-	1/2/22/22	0/1/1/1
2	GAL	U	801	-	-	1/2/22/22	0/1/1/1
2	GAL	S	801	-	-	1/2/22/22	0/1/1/1
2	GAL	R	801	-	-	1/2/22/22	0/1/1/1
2	GAL	6	801	-	-	1/2/22/22	0/1/1/1
2	GAL	3	801	-	-	1/2/22/22	0/1/1/1
2	GAL	J	801	-	-	1/2/22/22	0/1/1/1
2	GAL	y	801	-	-	1/2/22/22	0/1/1/1
2	GAL	2	801	-	-	1/2/22/22	0/1/1/1
2	GAL	4	801	-	-	1/2/22/22	0/1/1/1
2	GAL	p	801	-	-	1/2/22/22	0/1/1/1
2	GAL	C	801	-	-	1/2/22/22	0/1/1/1
2	GAL	i	801	-	-	1/2/22/22	0/1/1/1
2	GAL	m	801	-	-	1/2/22/22	0/1/1/1
2	GAL	e	801	-	-	1/2/22/22	0/1/1/1
2	GAL	t	801	-	-	1/2/22/22	0/1/1/1
2	GAL	w	801	-	-	1/2/22/22	0/1/1/1
2	GAL	P	801	-	-	1/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GAL	B	801	-	-	1/2/22/22	0/1/1/1
2	GAL	O	801	-	-	1/2/22/22	0/1/1/1
2	GAL	a	801	-	-	1/2/22/22	0/1/1/1
2	GAL	T	801	-	-	1/2/22/22	0/1/1/1
2	GAL	d	801	-	-	1/2/22/22	0/1/1/1
2	GAL	8	801	-	-	1/2/22/22	0/1/1/1
2	GAL	b	801	-	-	1/2/22/22	0/1/1/1
2	GAL	q	801	-	-	1/2/22/22	0/1/1/1
2	GAL	x	801	-	-	1/2/22/22	0/1/1/1
2	GAL	I	801	-	-	1/2/22/22	0/1/1/1
2	GAL	Z	801	-	-	1/2/22/22	0/1/1/1
2	GAL	g	801	-	-	1/2/22/22	0/1/1/1
2	GAL	n	801	-	-	1/2/22/22	0/1/1/1
2	GAL	K	801	-	-	1/2/22/22	0/1/1/1
2	GAL	X	801	-	-	1/2/22/22	0/1/1/1
2	GAL	Q	801	-	-	1/2/22/22	0/1/1/1
2	GAL	k	801	-	-	1/2/22/22	0/1/1/1
2	GAL	7	801	-	-	1/2/22/22	0/1/1/1
2	GAL	s	801	-	-	1/2/22/22	0/1/1/1
2	GAL	A	801	-	-	1/2/22/22	0/1/1/1
2	GAL	E	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	O	801	GAL	O5-C5-C6-O6
2	d	801	GAL	O5-C5-C6-O6
2	f	801	GAL	O5-C5-C6-O6
2	x	801	GAL	O5-C5-C6-O6
2	8	801	GAL	O5-C5-C6-O6
2	I	801	GAL	O5-C5-C6-O6
2	K	801	GAL	O5-C5-C6-O6
2	Q	801	GAL	O5-C5-C6-O6
2	T	801	GAL	O5-C5-C6-O6
2	g	801	GAL	O5-C5-C6-O6
2	o	801	GAL	O5-C5-C6-O6
2	l	801	GAL	O5-C5-C6-O6
2	r	801	GAL	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	A	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	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	R	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	Z	801	GAL	O5-C5-C6-O6
2	1	801	GAL	O5-C5-C6-O6
2	4	801	GAL	O5-C5-C6-O6
2	a	801	GAL	O5-C5-C6-O6
2	b	801	GAL	O5-C5-C6-O6
2	c	801	GAL	O5-C5-C6-O6
2	e	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	n	801	GAL	O5-C5-C6-O6
2	p	801	GAL	O5-C5-C6-O6
2	q	801	GAL	O5-C5-C6-O6
2	s	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	y	801	GAL	O5-C5-C6-O6
2	z	801	GAL	O5-C5-C6-O6
2	7	801	GAL	O5-C5-C6-O6
2	J	801	GAL	O5-C5-C6-O6
2	S	801	GAL	O5-C5-C6-O6
2	2	801	GAL	O5-C5-C6-O6
2	3	801	GAL	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	5	801	GAL	O5-C5-C6-O6
2	6	801	GAL	O5-C5-C6-O6
2	k	801	GAL	O5-C5-C6-O6
2	m	801	GAL	O5-C5-C6-O6
2	t	801	GAL	O5-C5-C6-O6

There are no ring outliers.

60 monomers are involved in 60 short contacts:

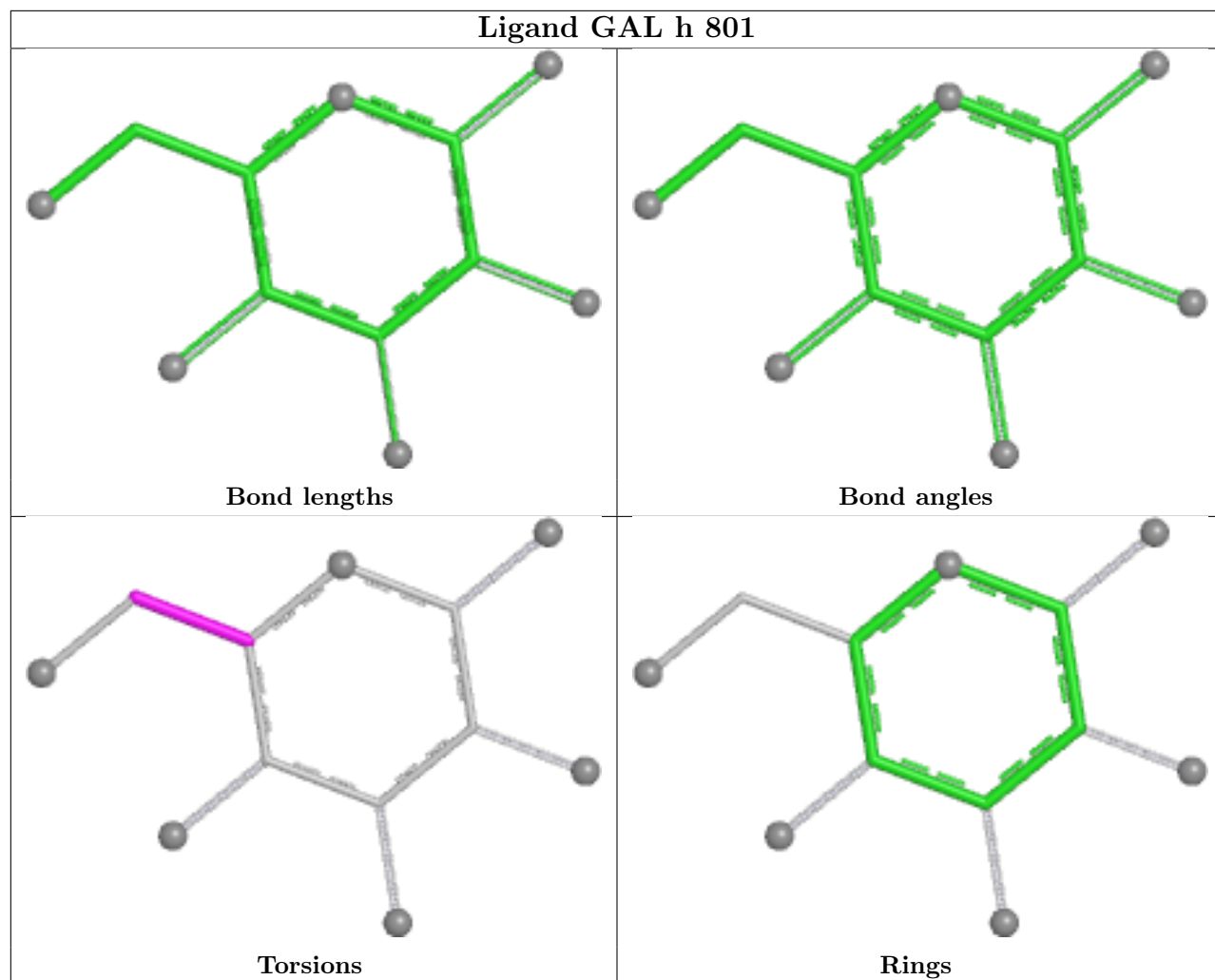
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	h	801	GAL	1	0
2	Y	801	GAL	1	0
2	o	801	GAL	1	0
2	v	801	GAL	1	0
2	l	801	GAL	1	0
2	D	801	GAL	1	0
2	G	801	GAL	1	0
2	u	801	GAL	1	0
2	l	801	GAL	1	0
2	c	801	GAL	1	0
2	z	801	GAL	1	0
2	N	801	GAL	1	0
2	M	801	GAL	1	0
2	F	801	GAL	1	0
2	W	801	GAL	1	0
2	L	801	GAL	1	0
2	H	801	GAL	1	0
2	V	801	GAL	1	0
2	5	801	GAL	1	0
2	f	801	GAL	1	0
2	j	801	GAL	1	0
2	r	801	GAL	1	0
2	U	801	GAL	1	0
2	S	801	GAL	1	0
2	R	801	GAL	1	0
2	6	801	GAL	1	0
2	3	801	GAL	1	0
2	J	801	GAL	1	0
2	y	801	GAL	1	0
2	2	801	GAL	1	0
2	4	801	GAL	1	0
2	p	801	GAL	1	0

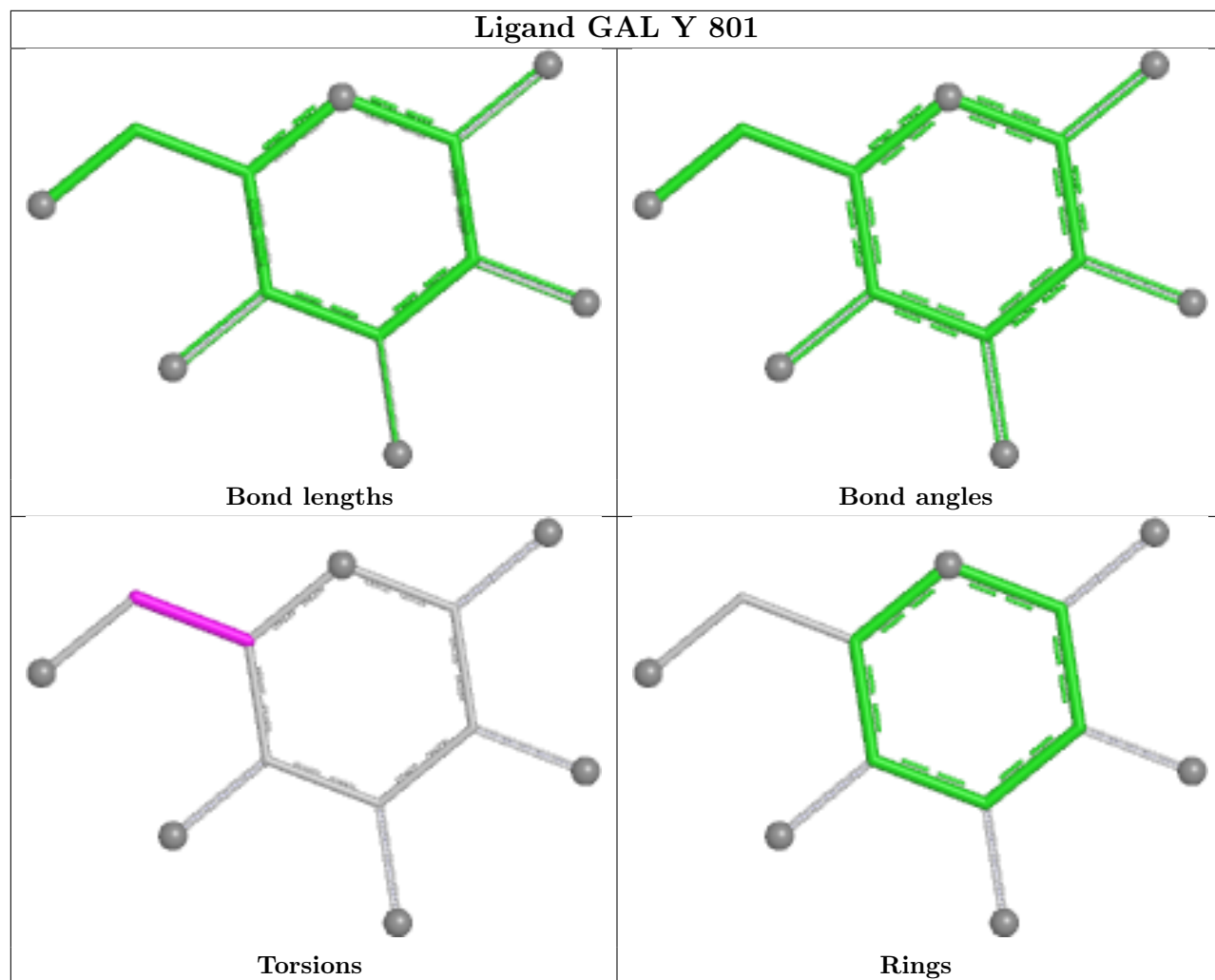
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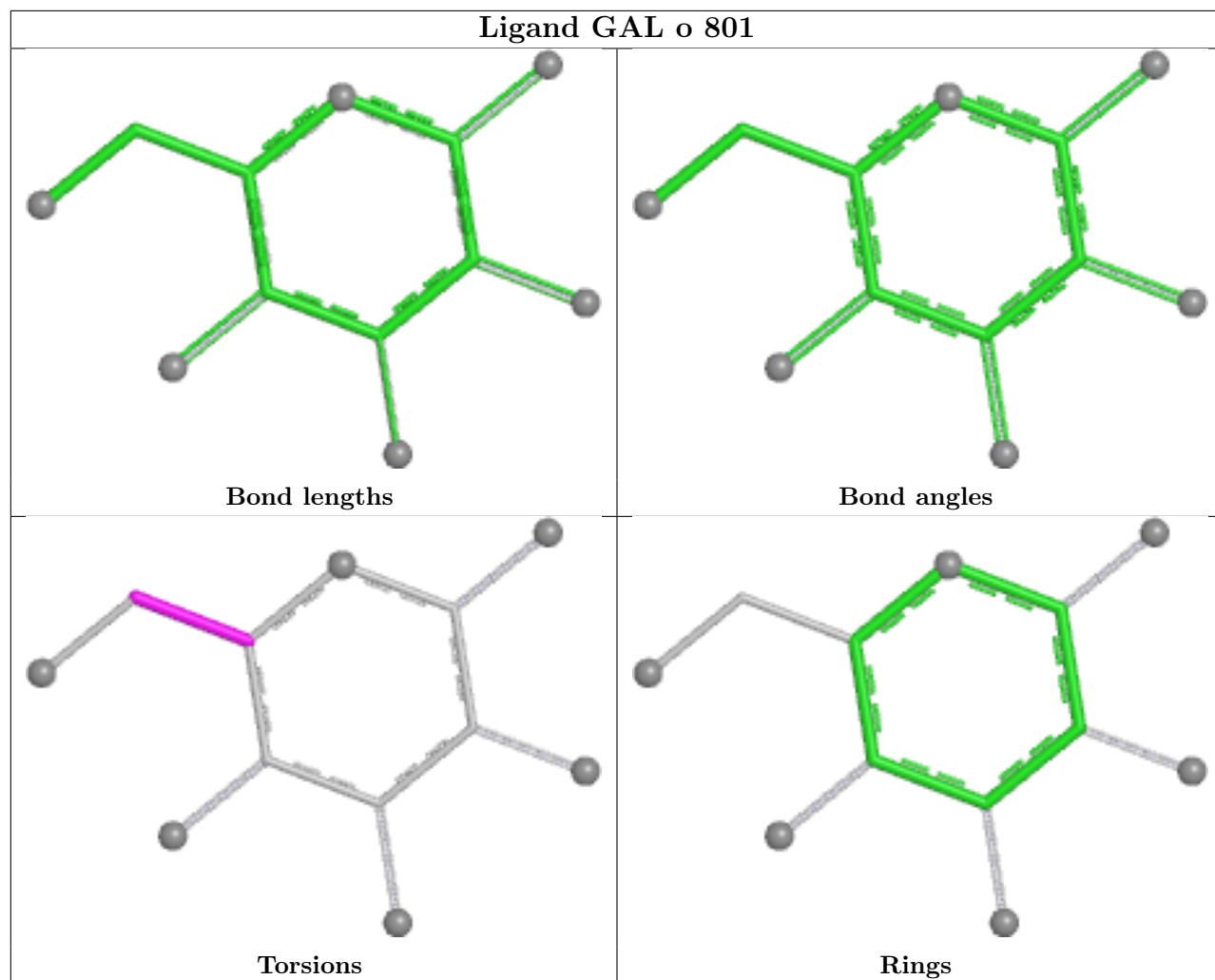
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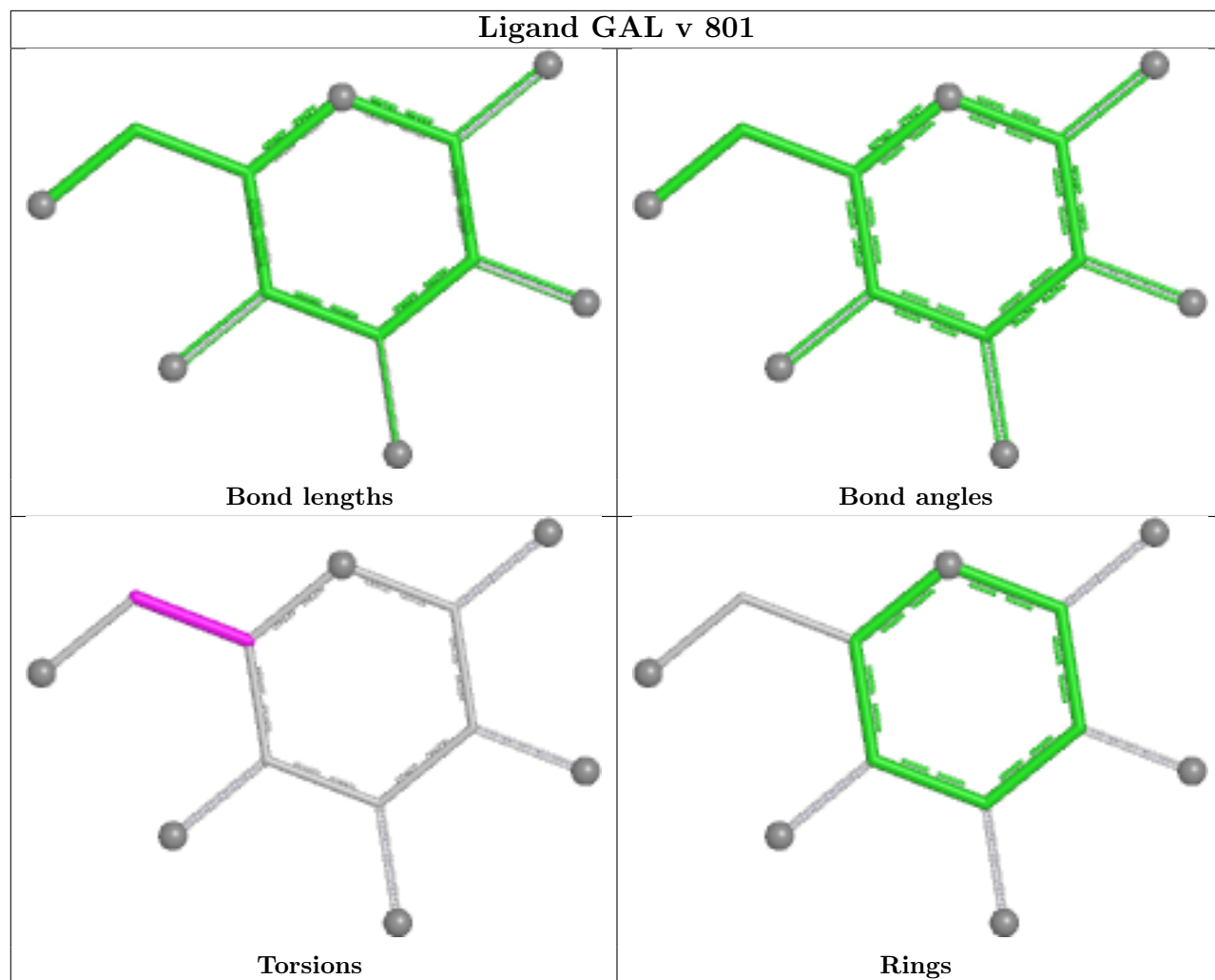
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	801	GAL	1	0
2	i	801	GAL	1	0
2	m	801	GAL	1	0
2	e	801	GAL	1	0
2	t	801	GAL	1	0
2	w	801	GAL	1	0
2	P	801	GAL	1	0
2	B	801	GAL	1	0
2	O	801	GAL	1	0
2	a	801	GAL	1	0
2	T	801	GAL	1	0
2	d	801	GAL	1	0
2	8	801	GAL	1	0
2	b	801	GAL	1	0
2	q	801	GAL	1	0
2	x	801	GAL	1	0
2	I	801	GAL	1	0
2	Z	801	GAL	1	0
2	g	801	GAL	1	0
2	n	801	GAL	1	0
2	K	801	GAL	1	0
2	X	801	GAL	1	0
2	Q	801	GAL	1	0
2	k	801	GAL	1	0
2	7	801	GAL	1	0
2	s	801	GAL	1	0
2	A	801	GAL	1	0
2	E	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 than 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.

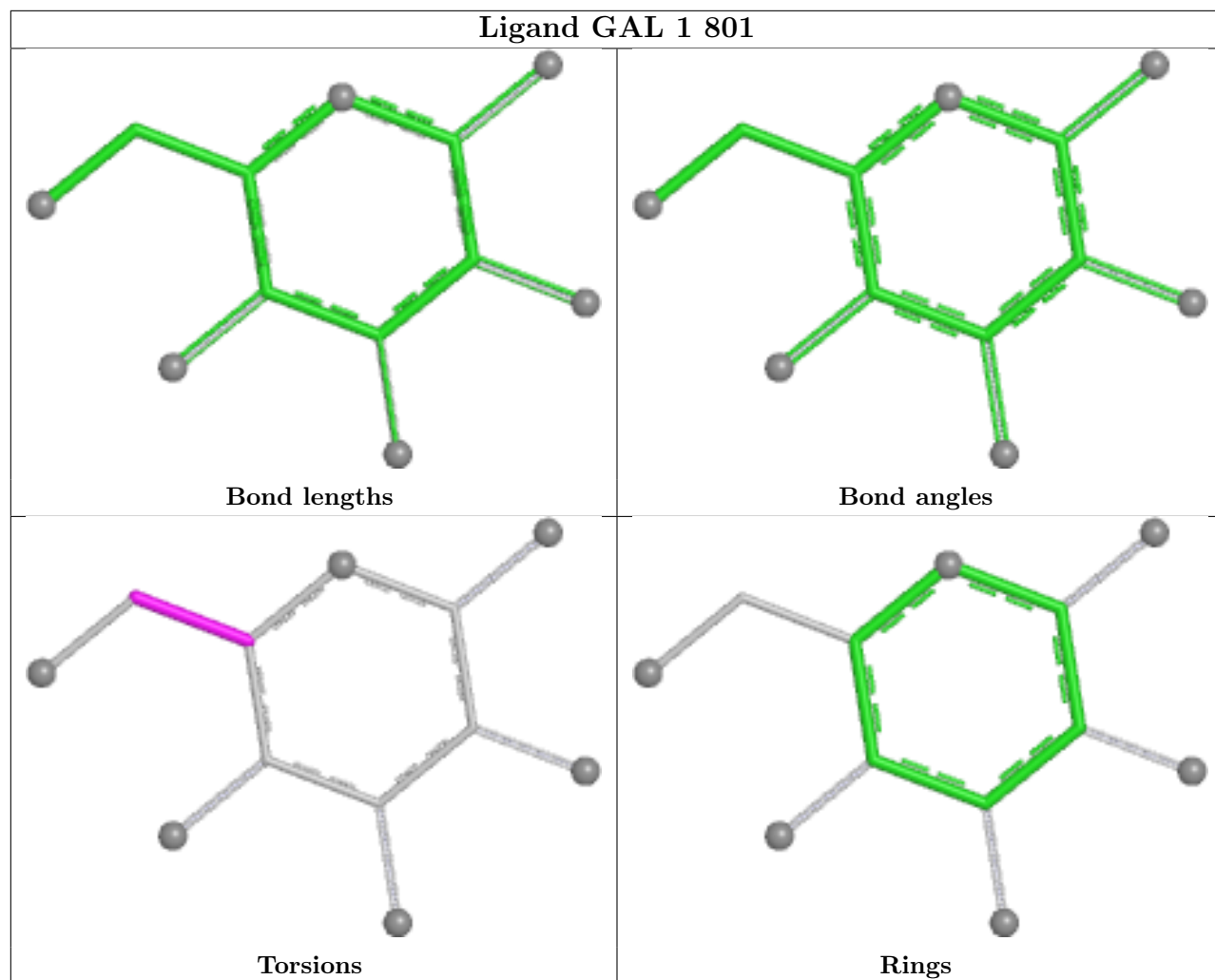


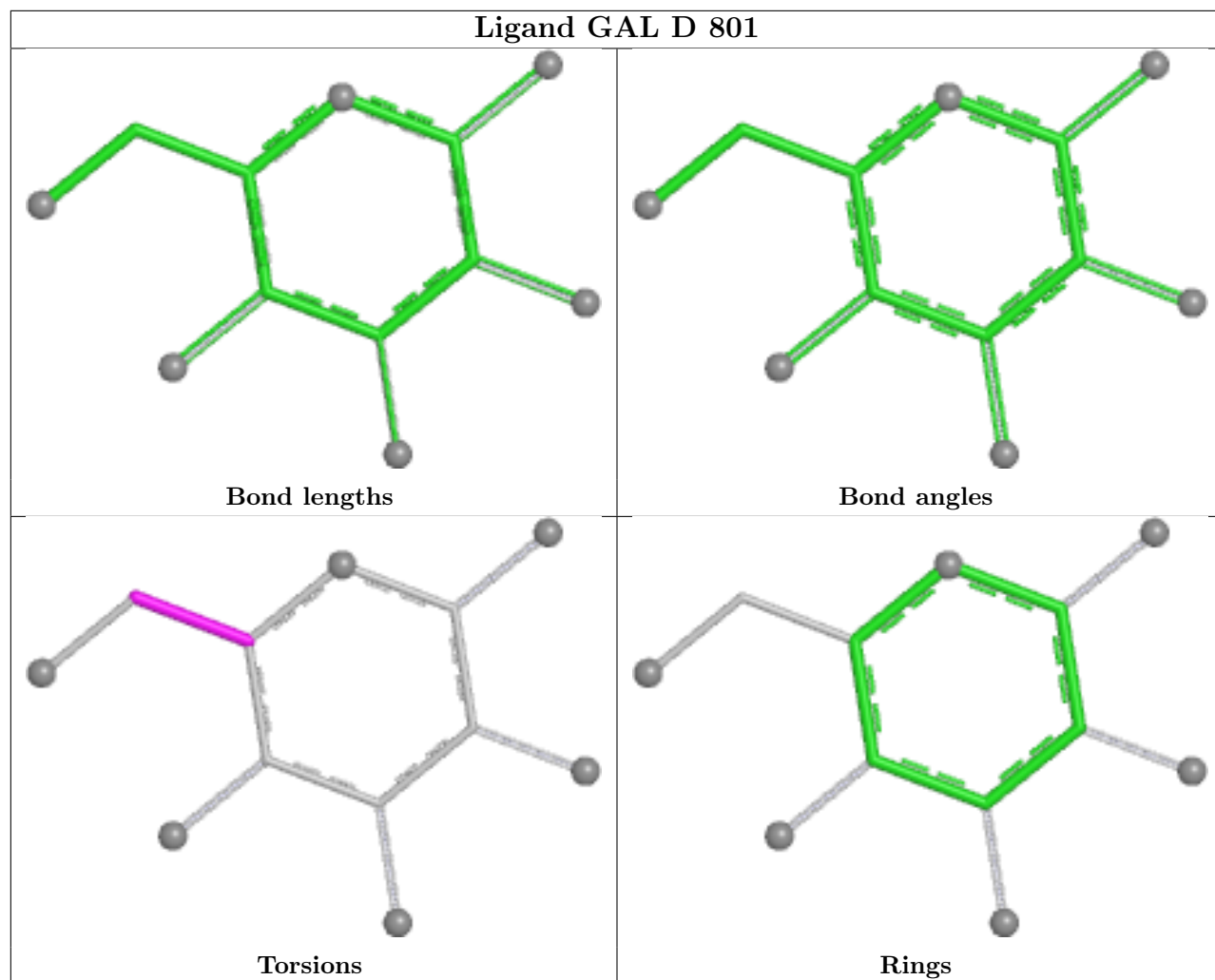


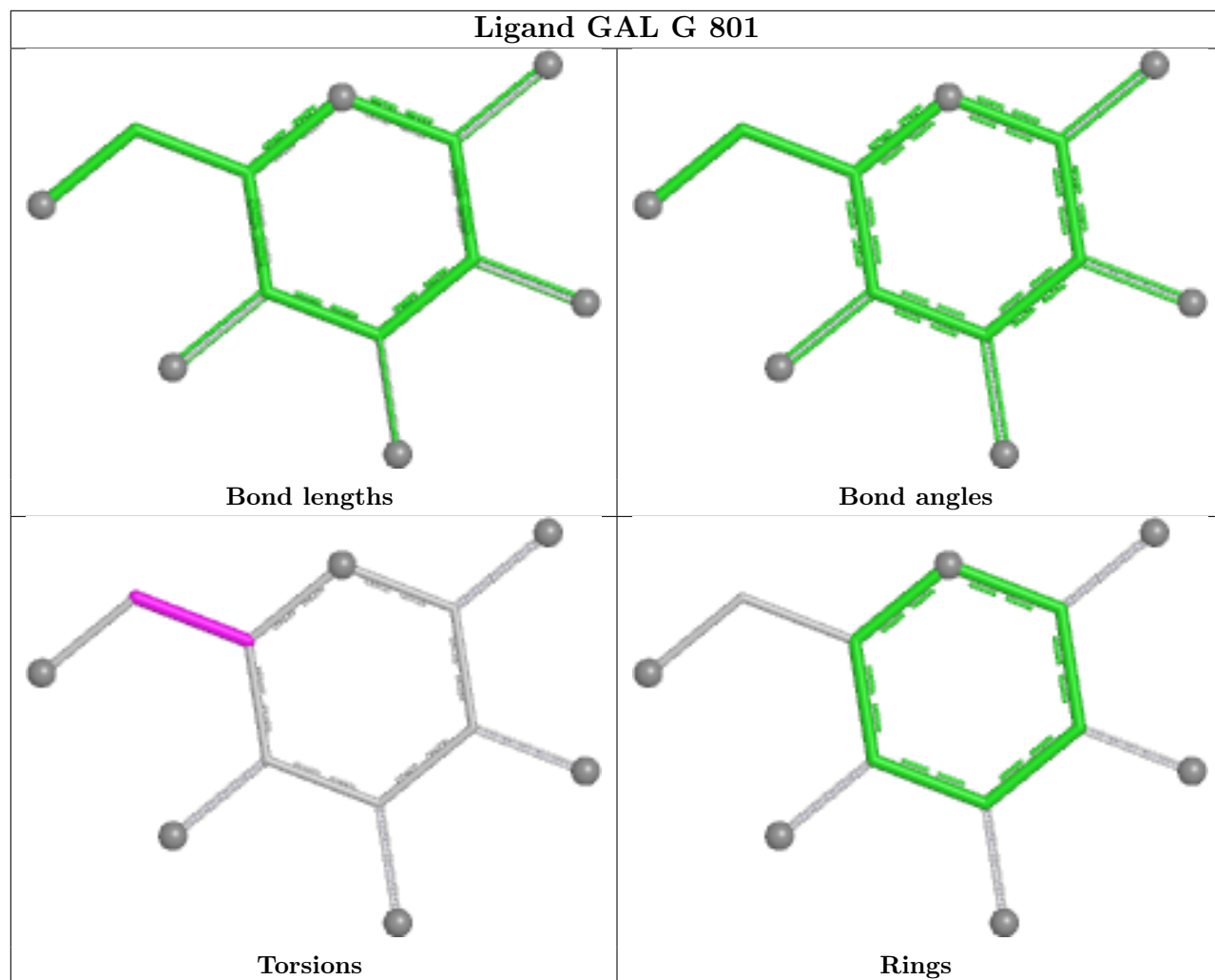


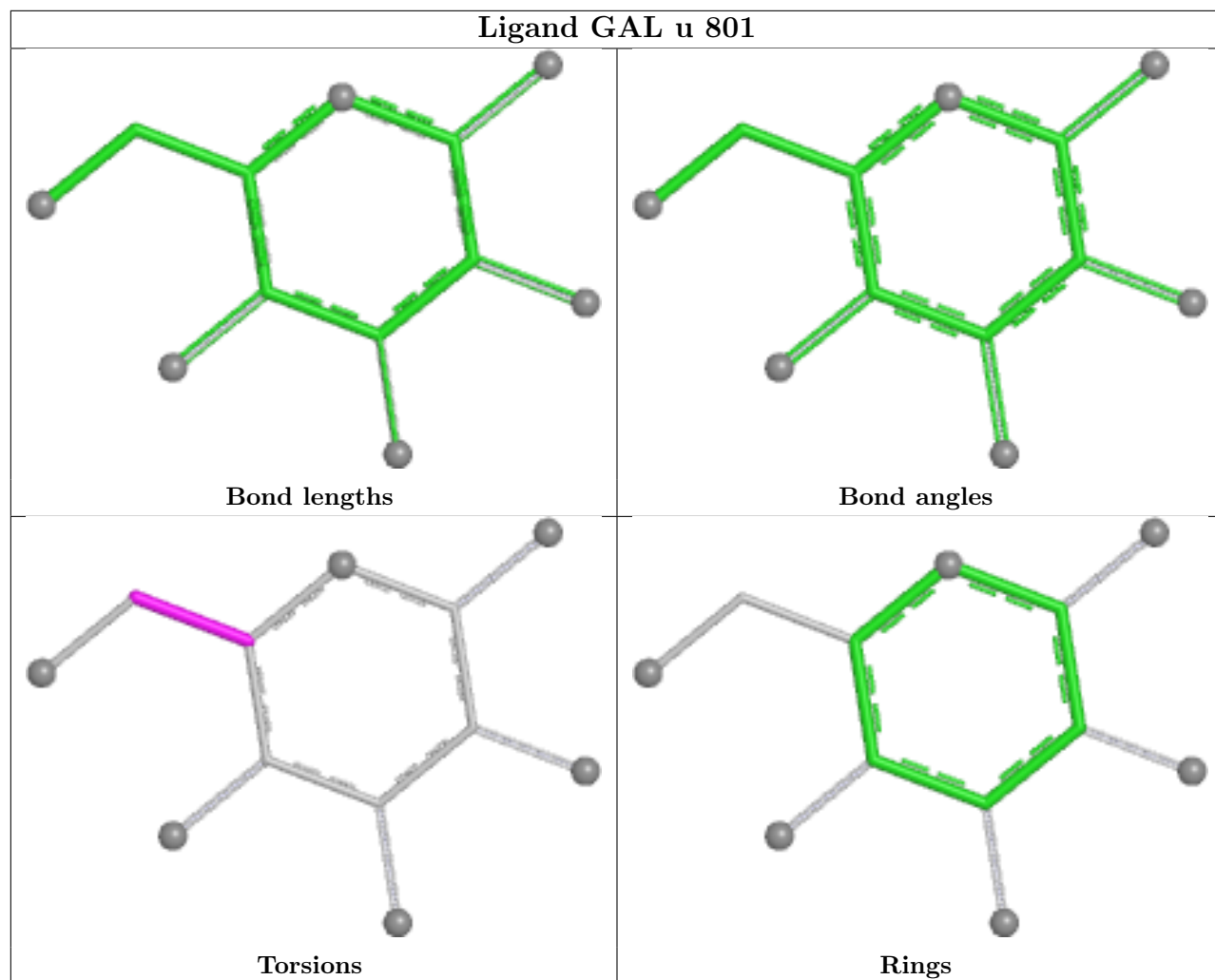


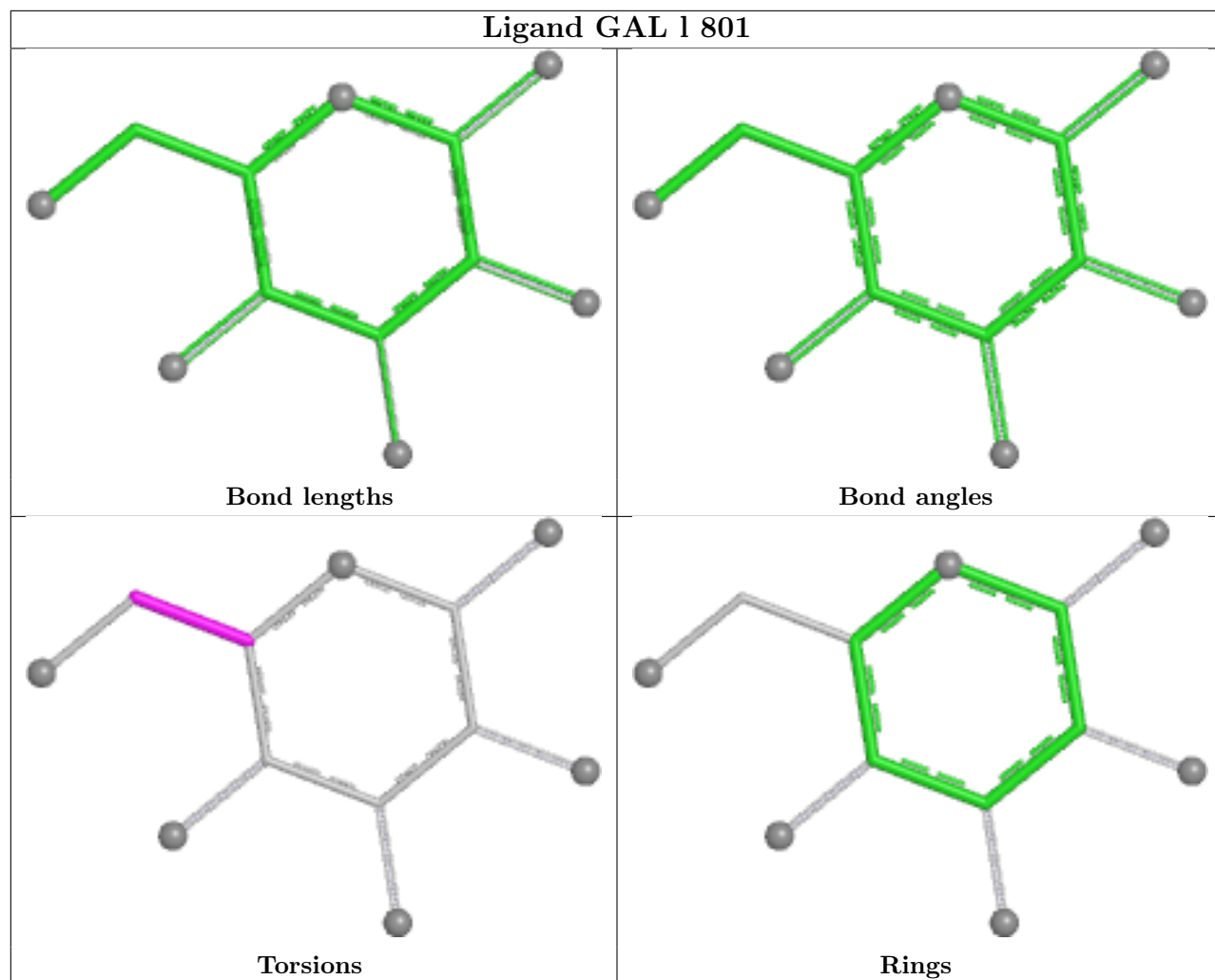


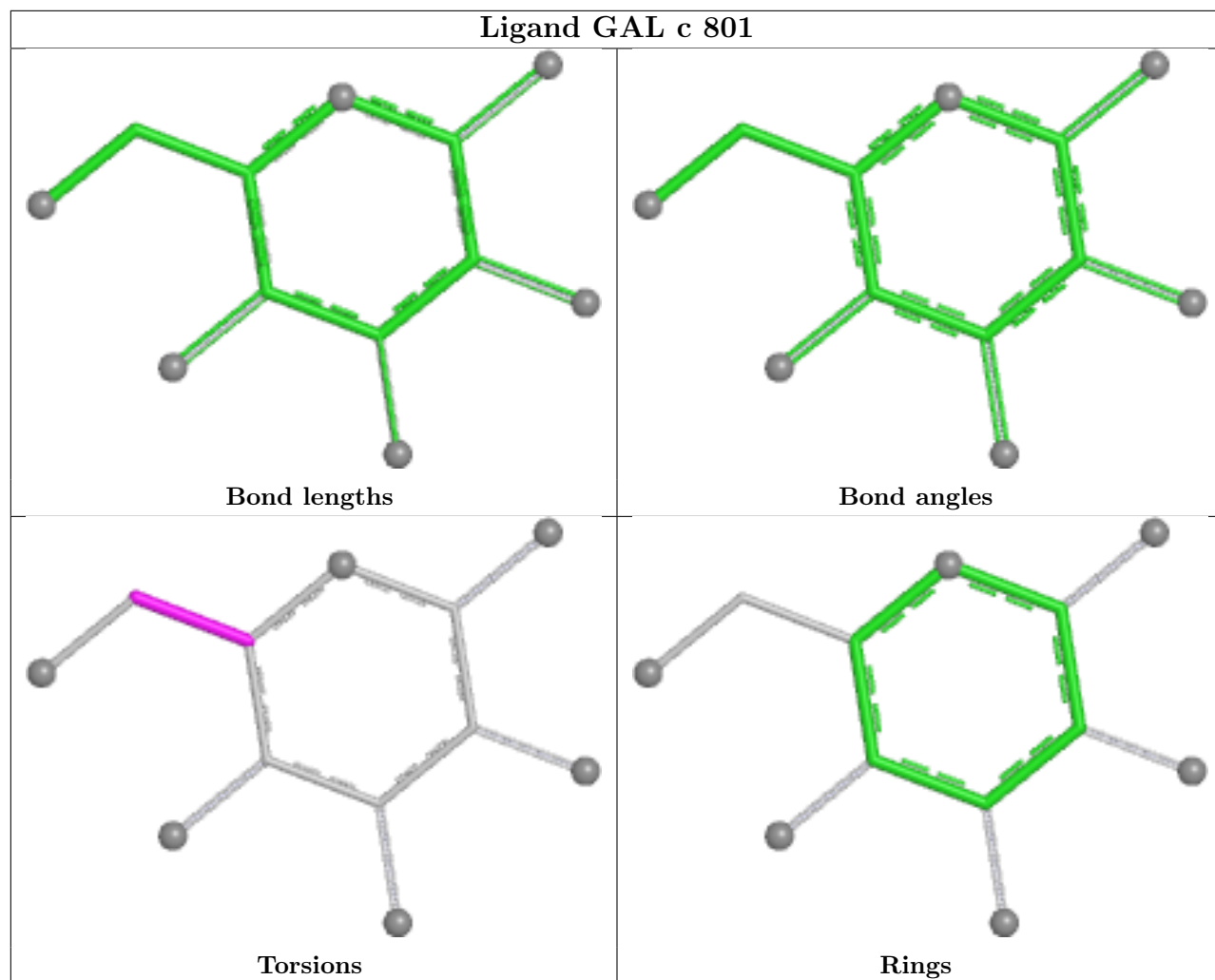


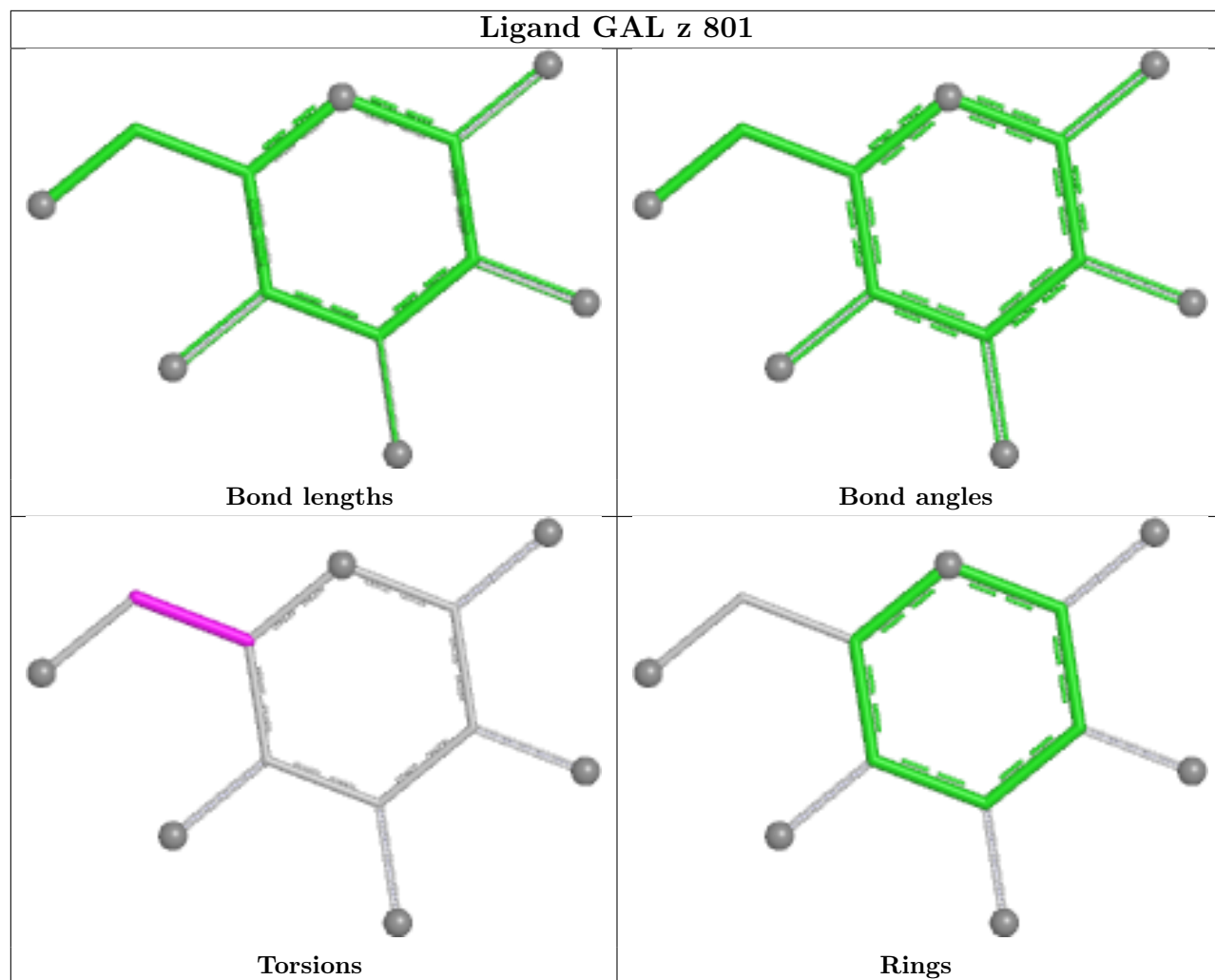


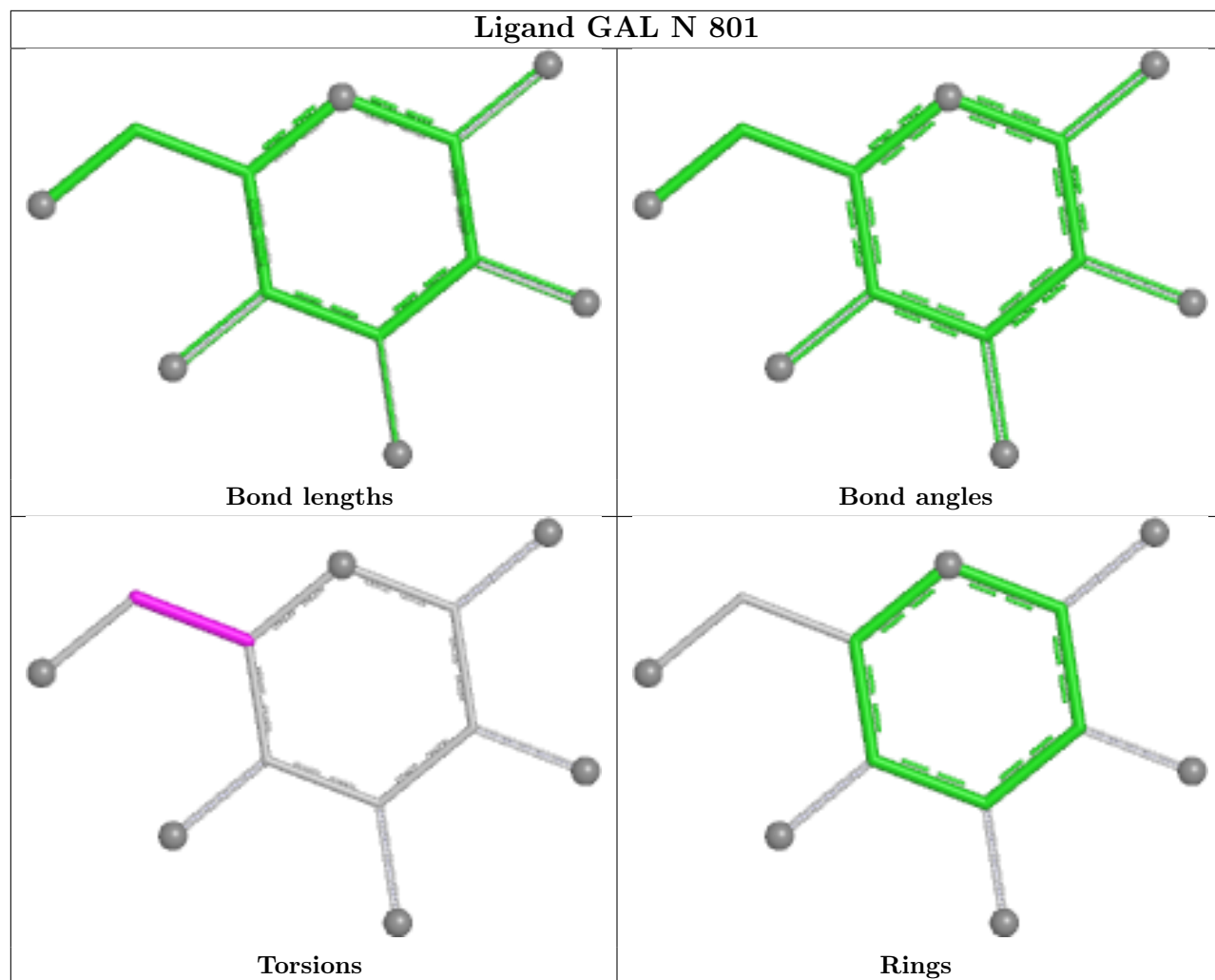




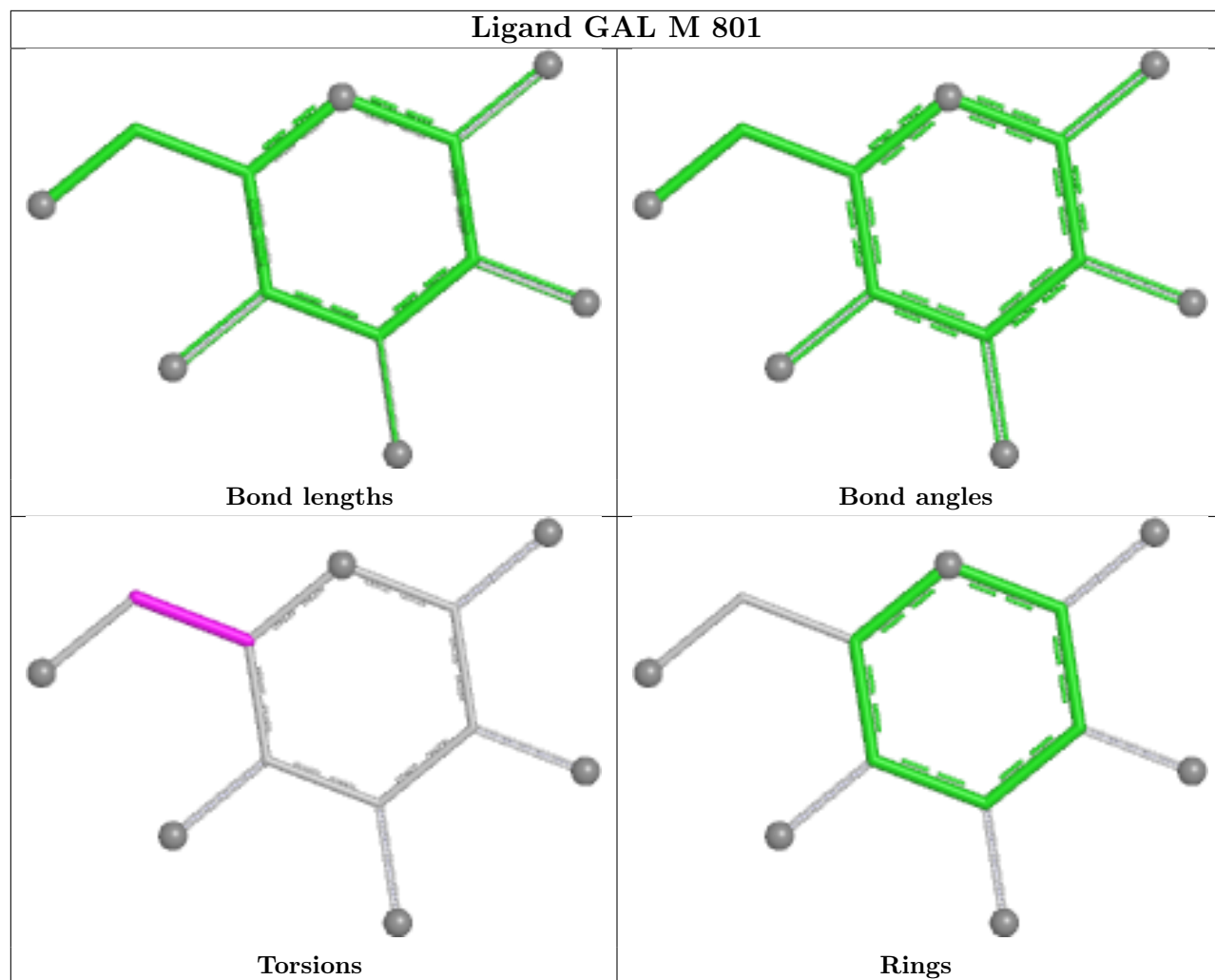


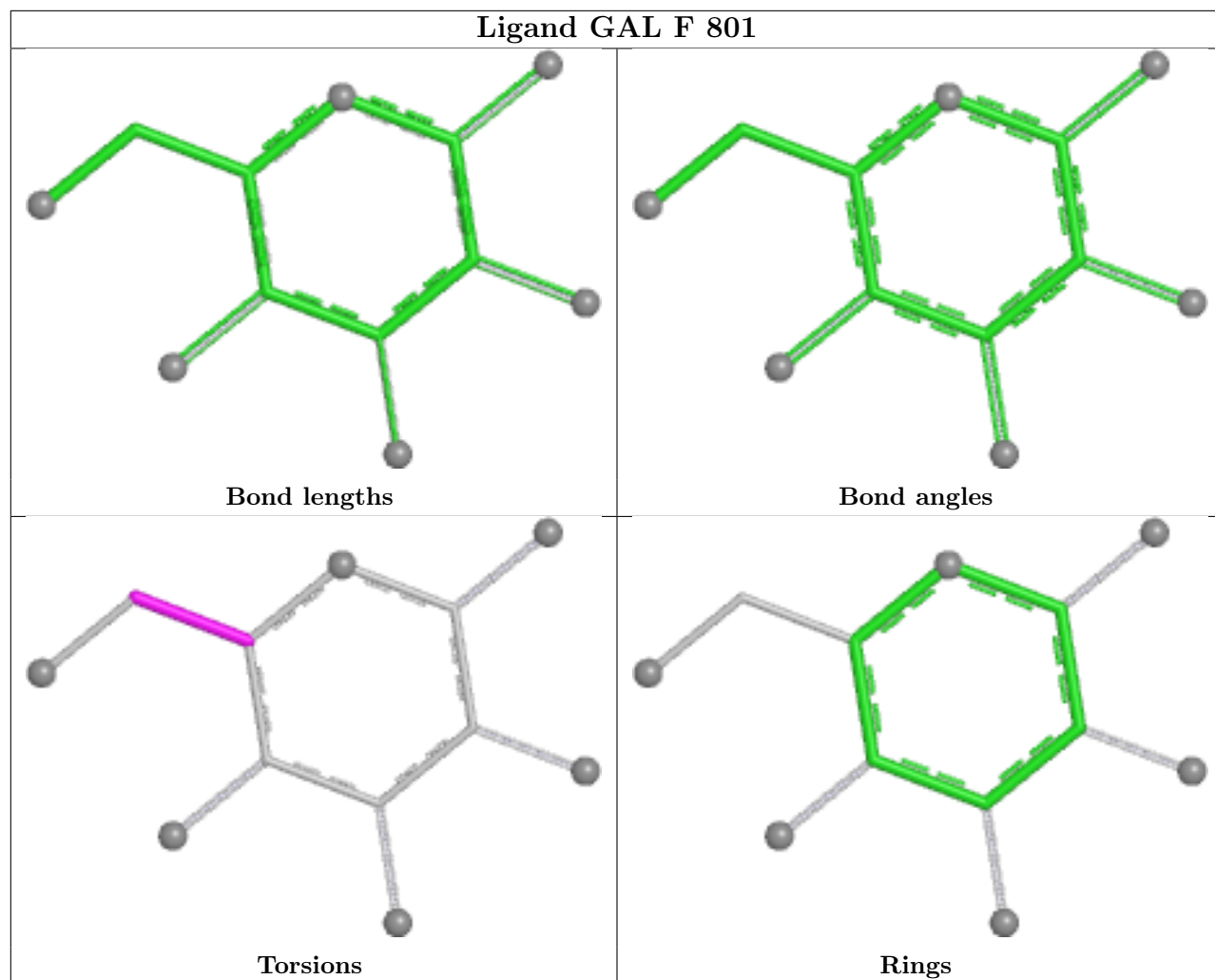


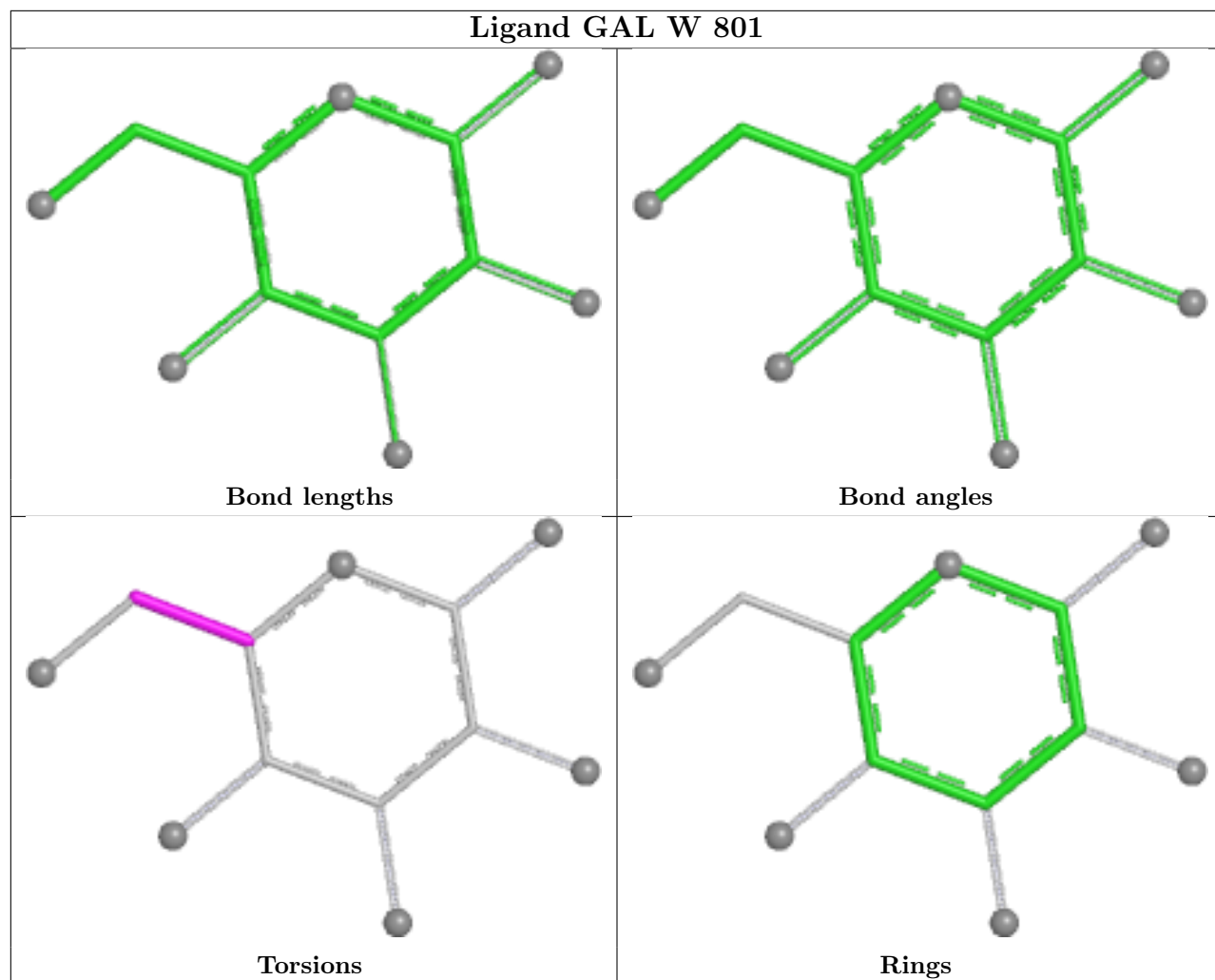


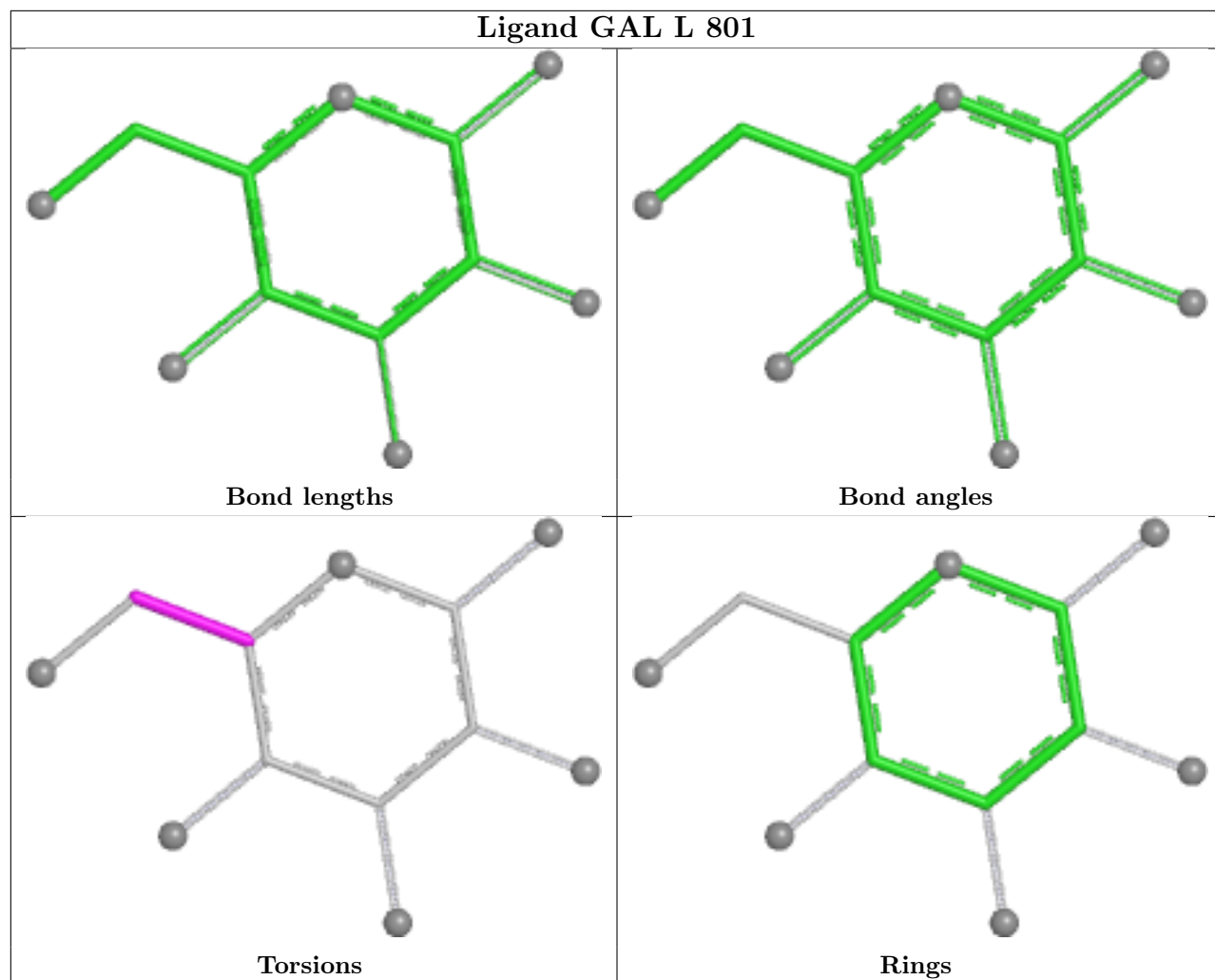


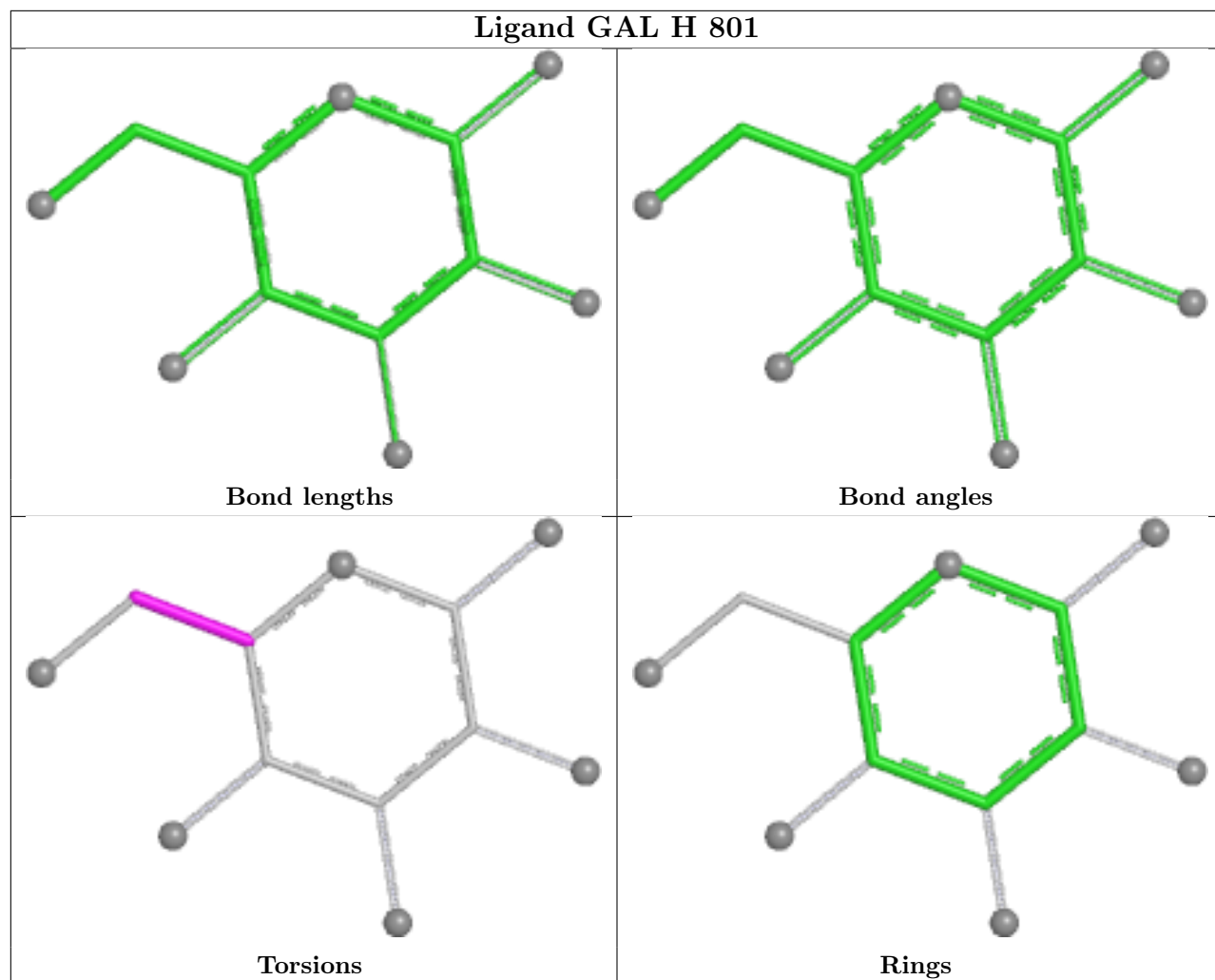


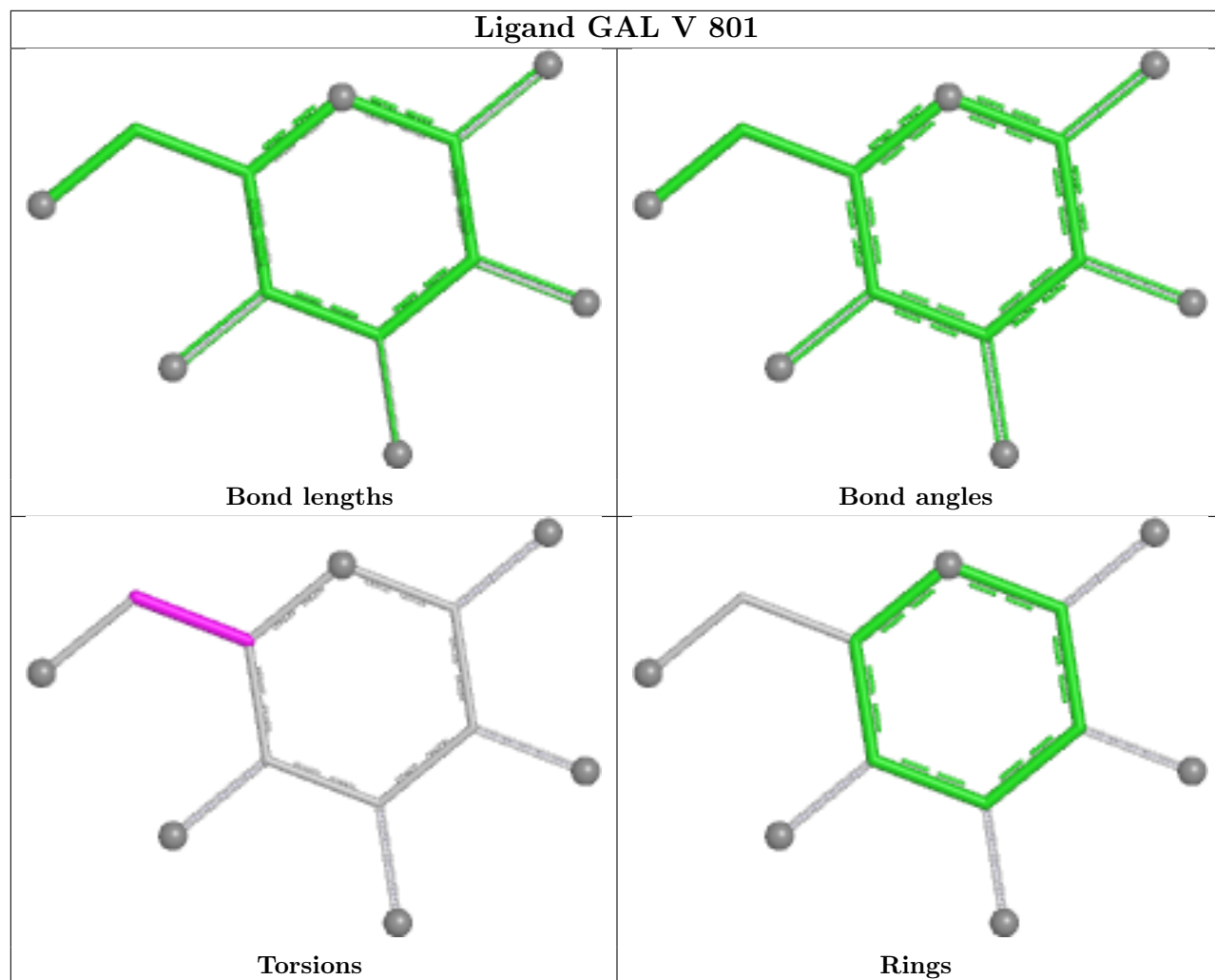


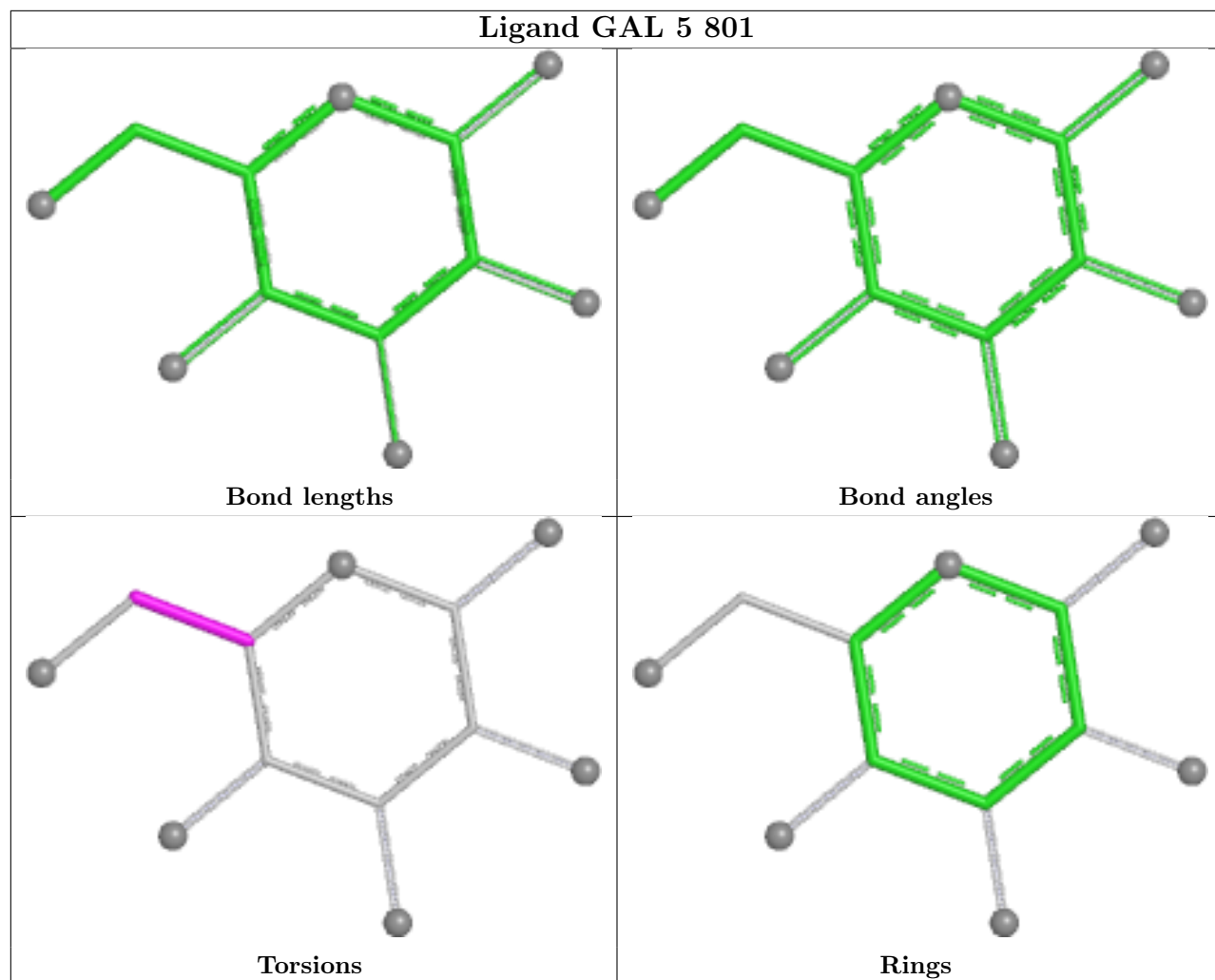


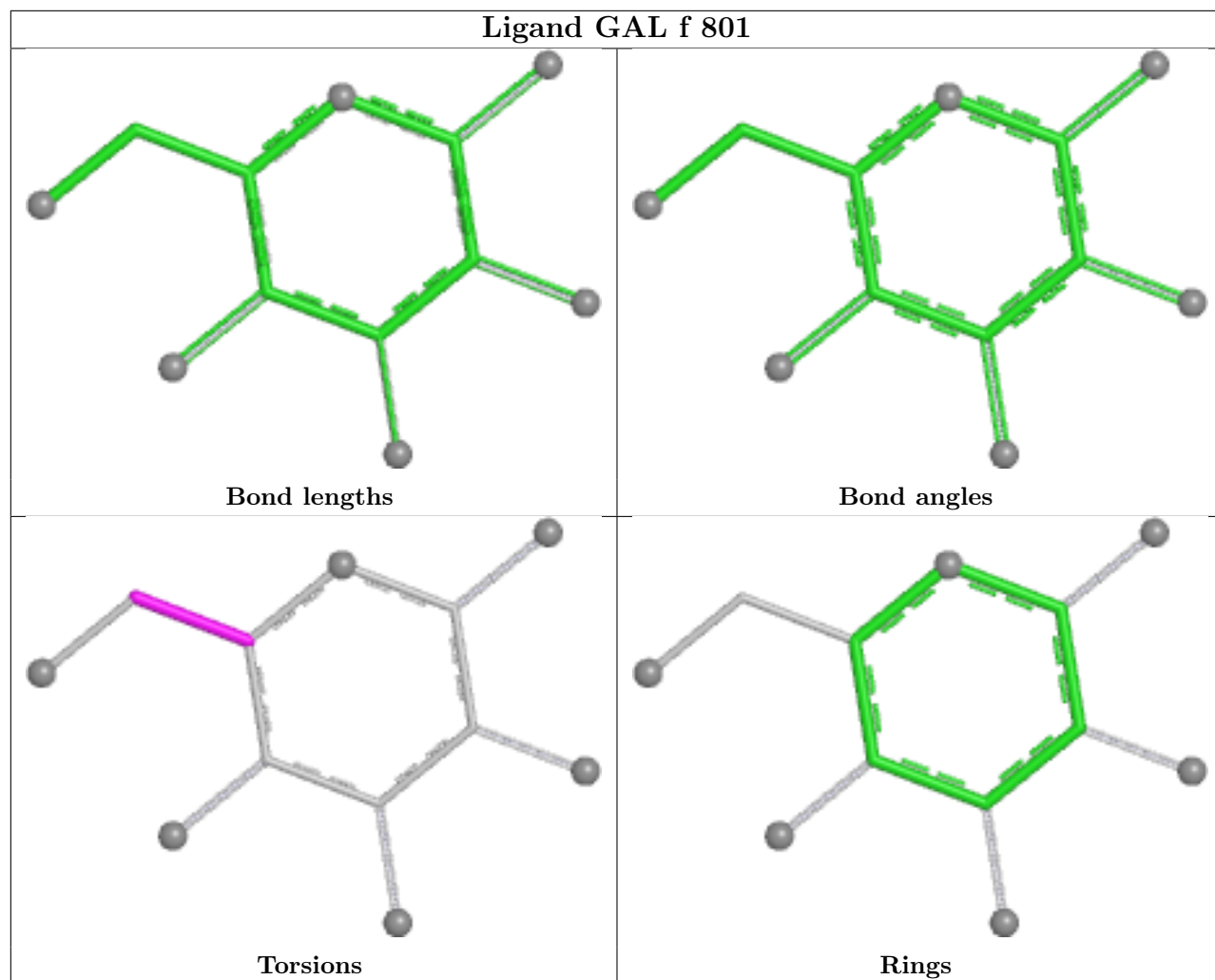




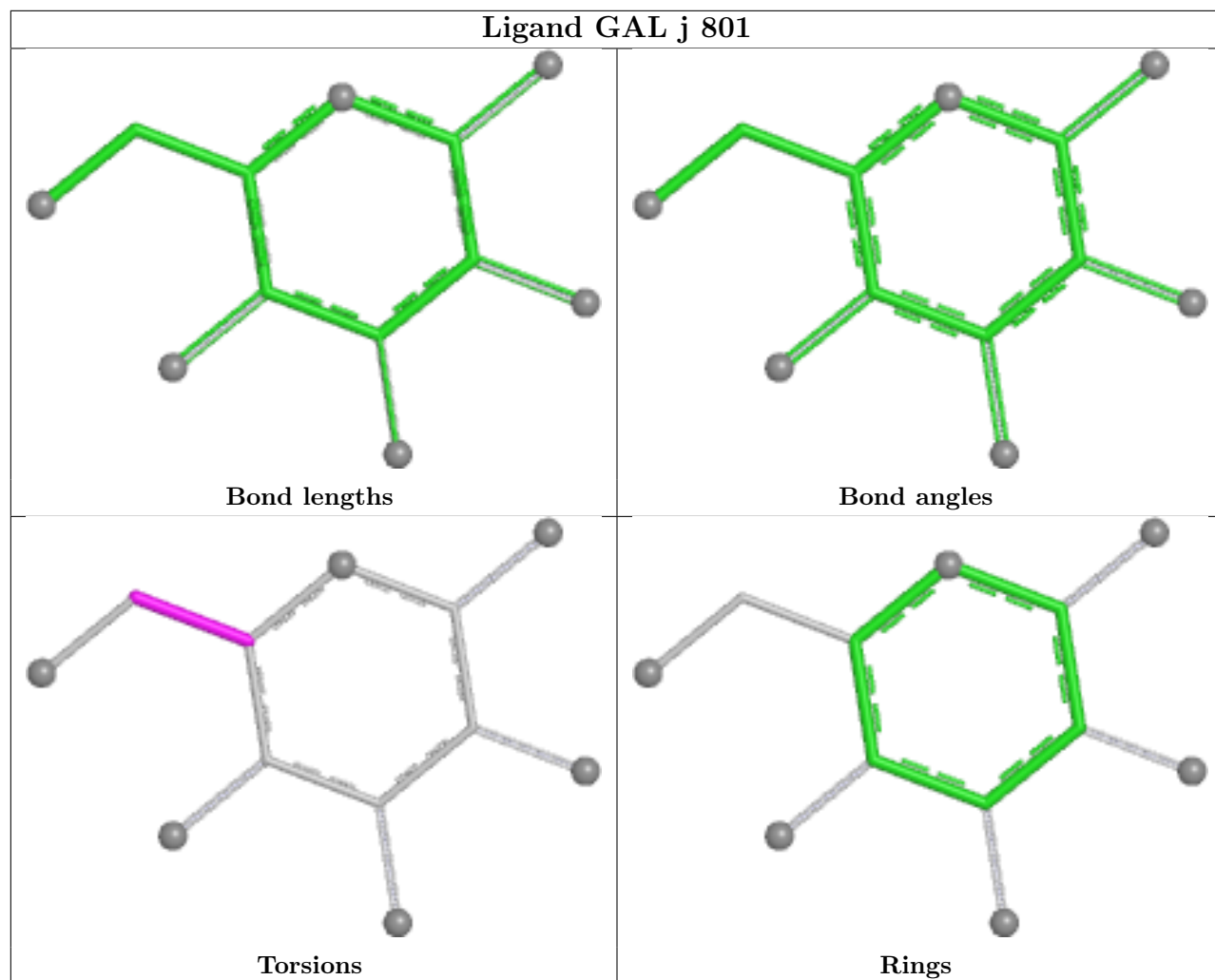


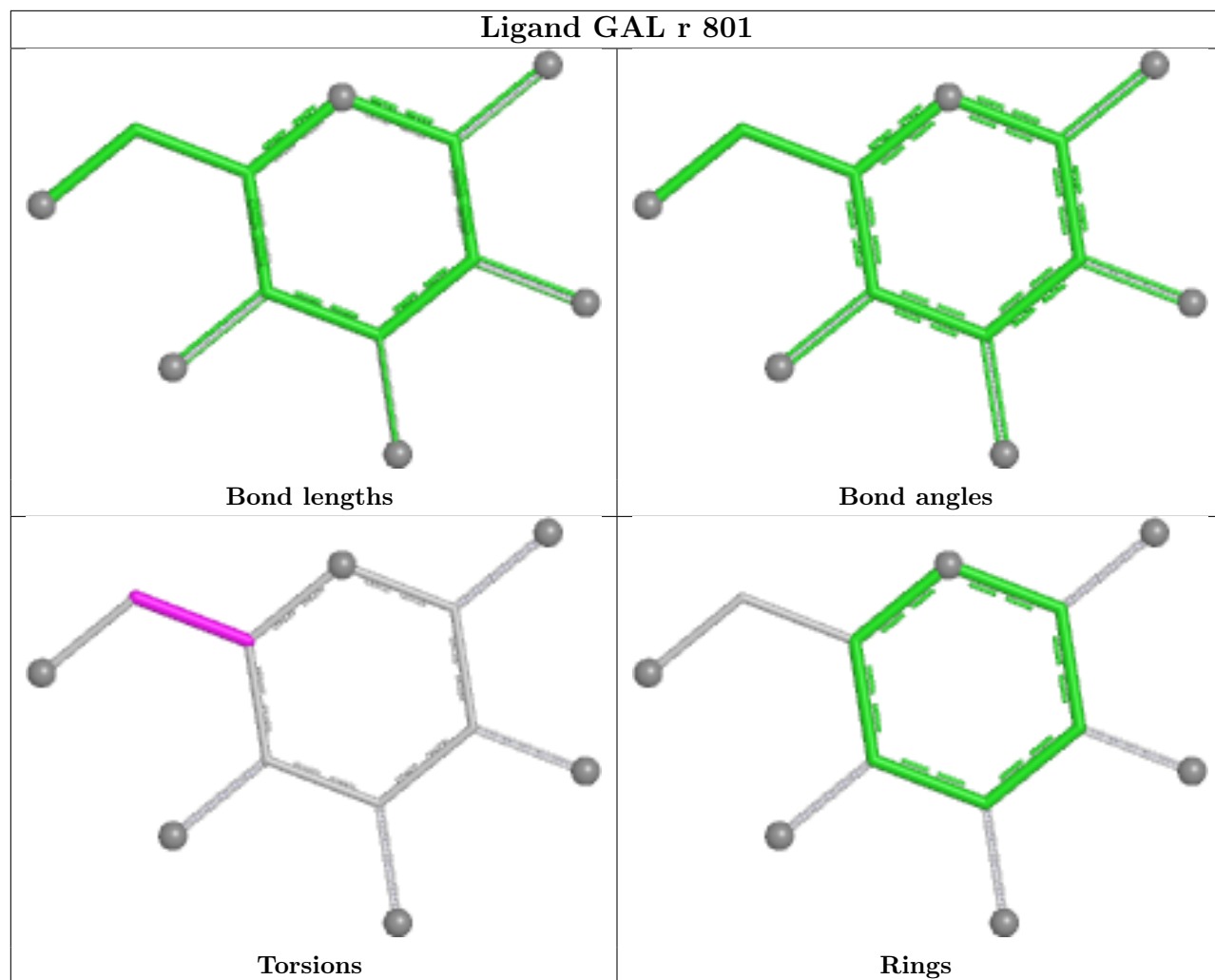


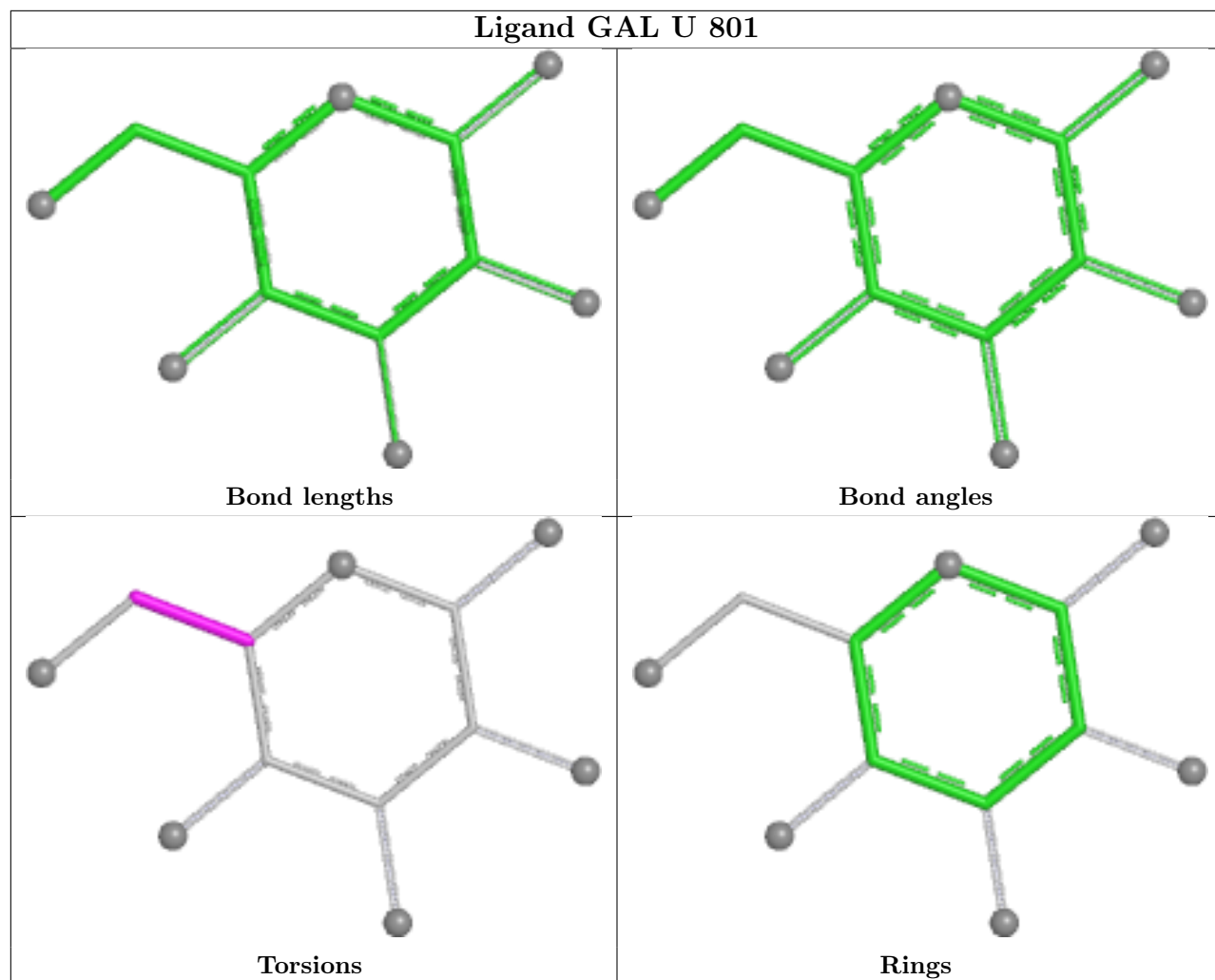


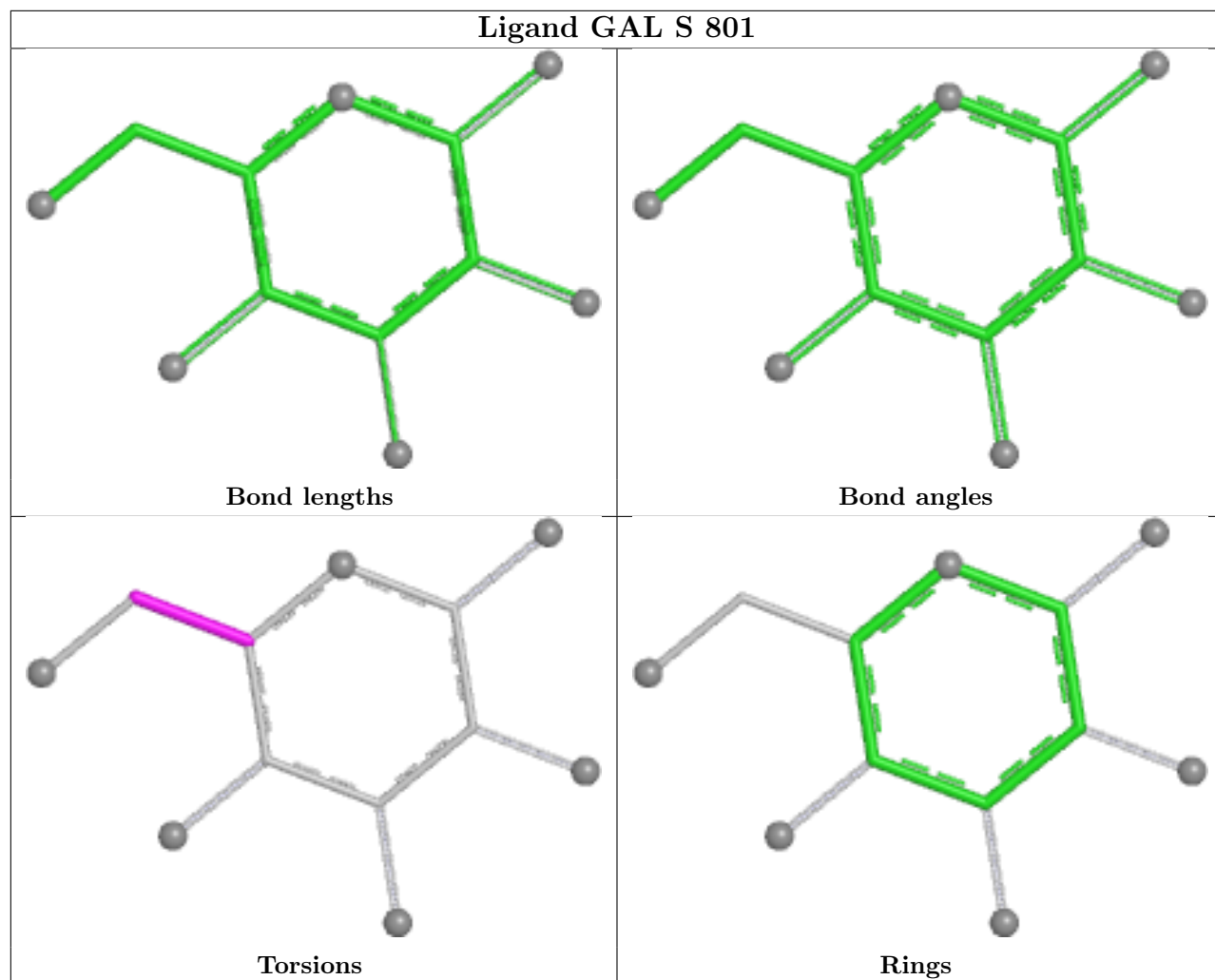


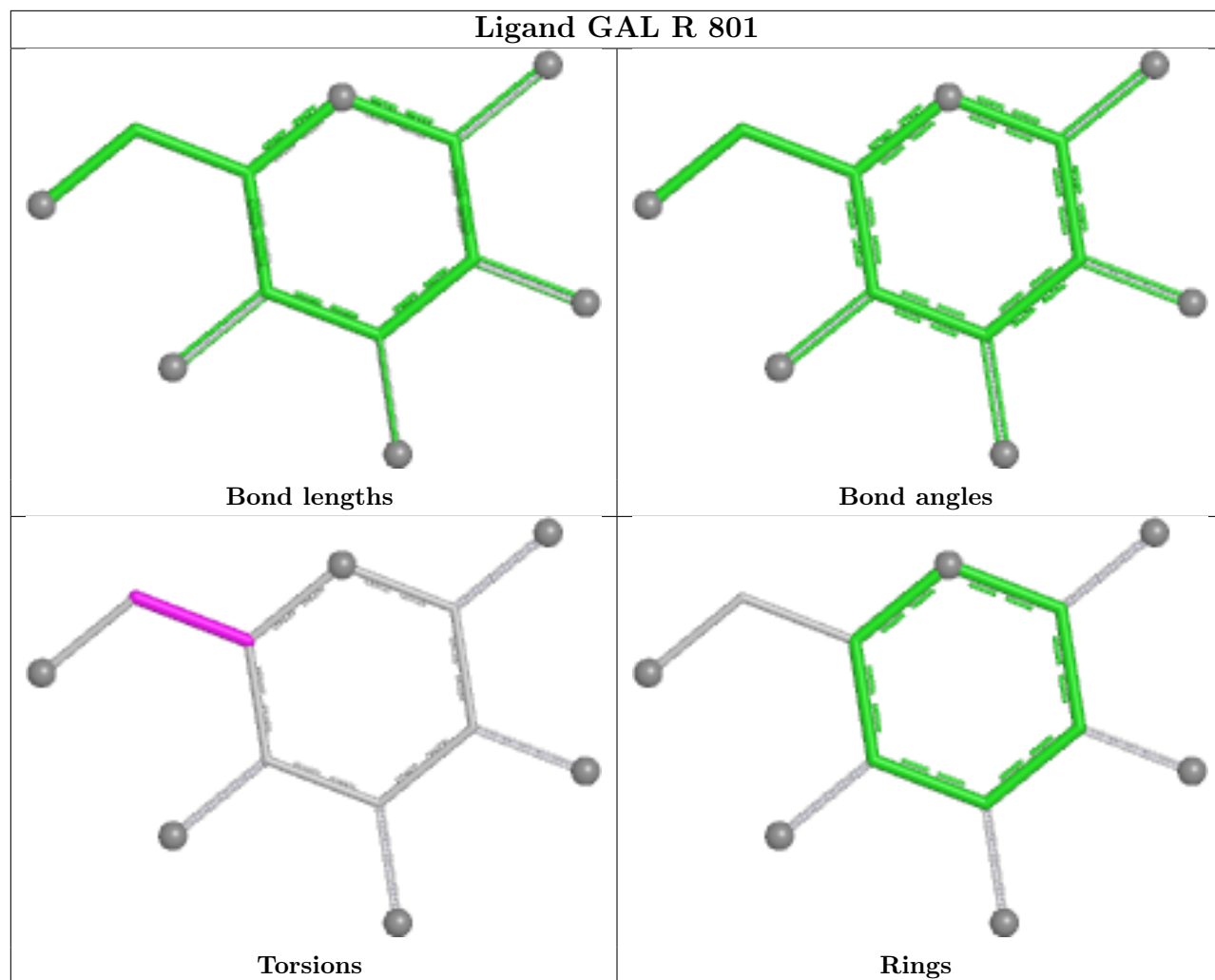


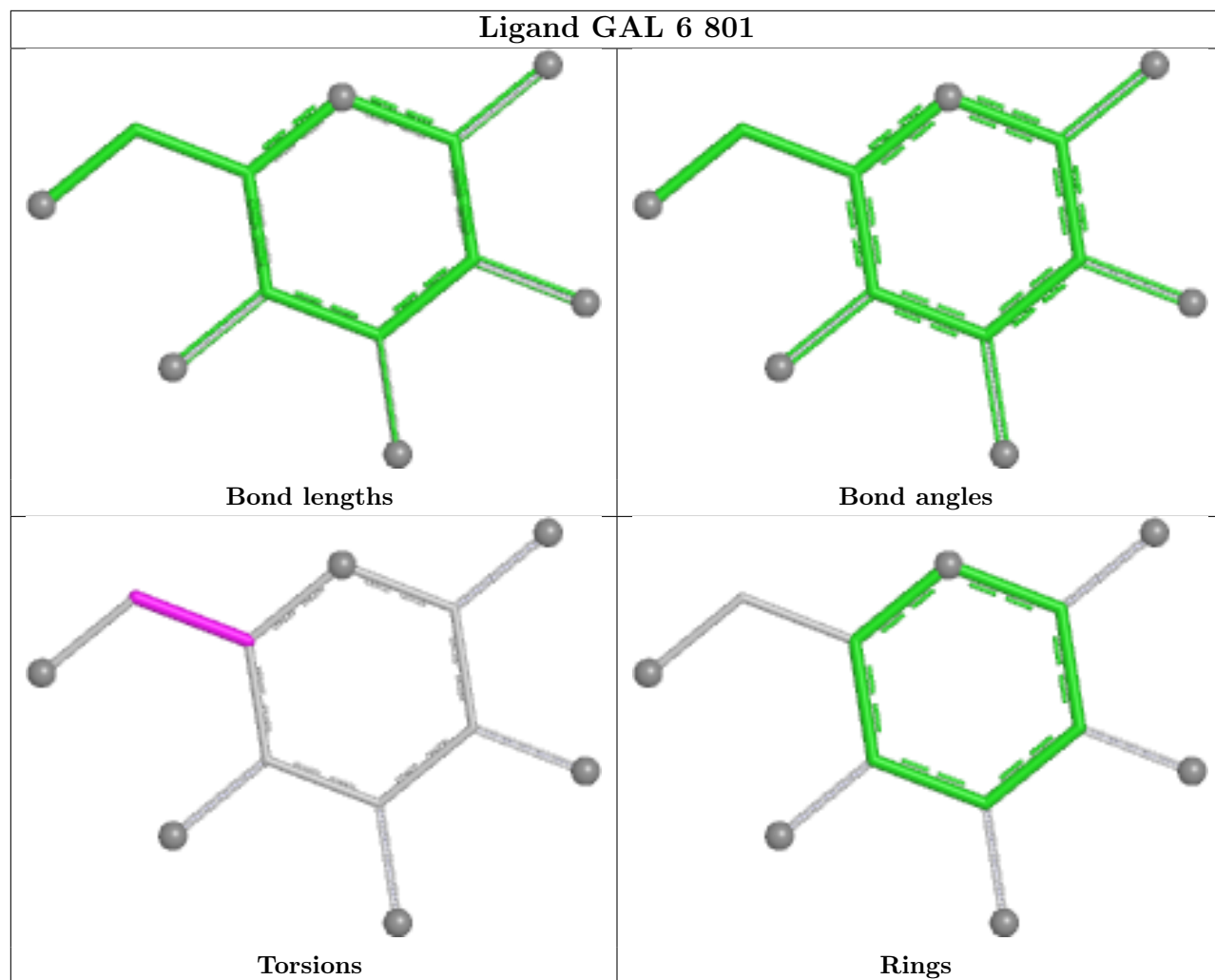


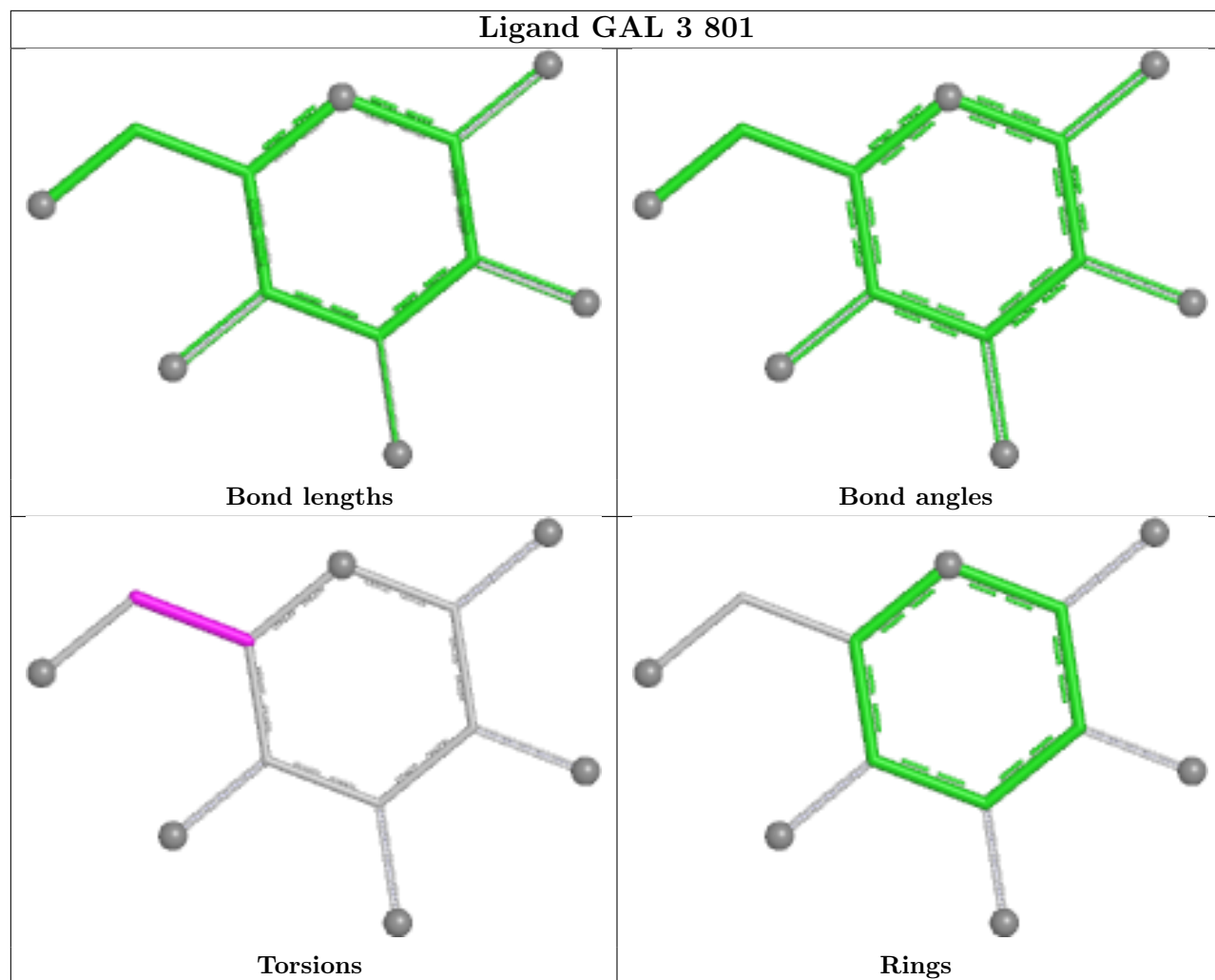


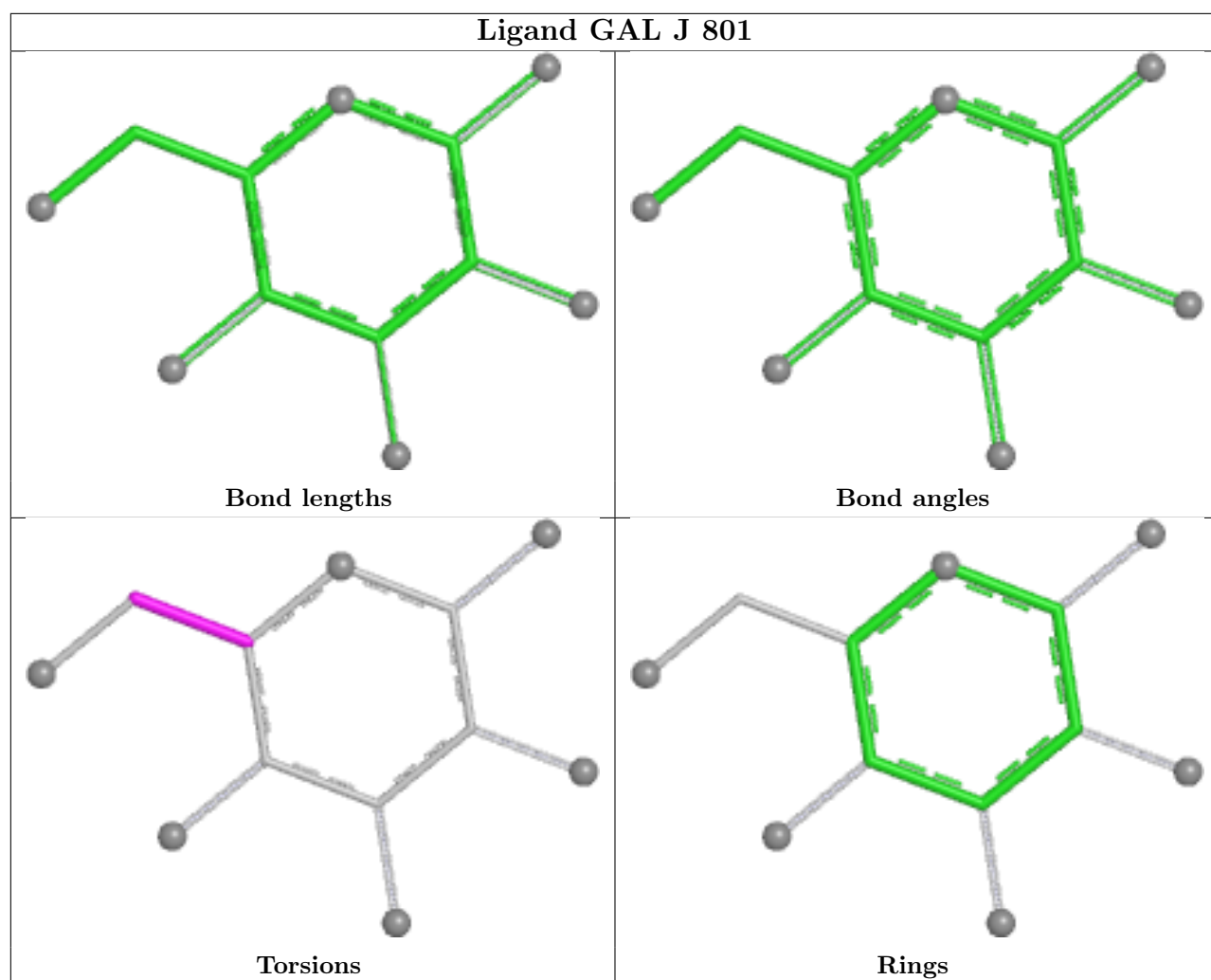




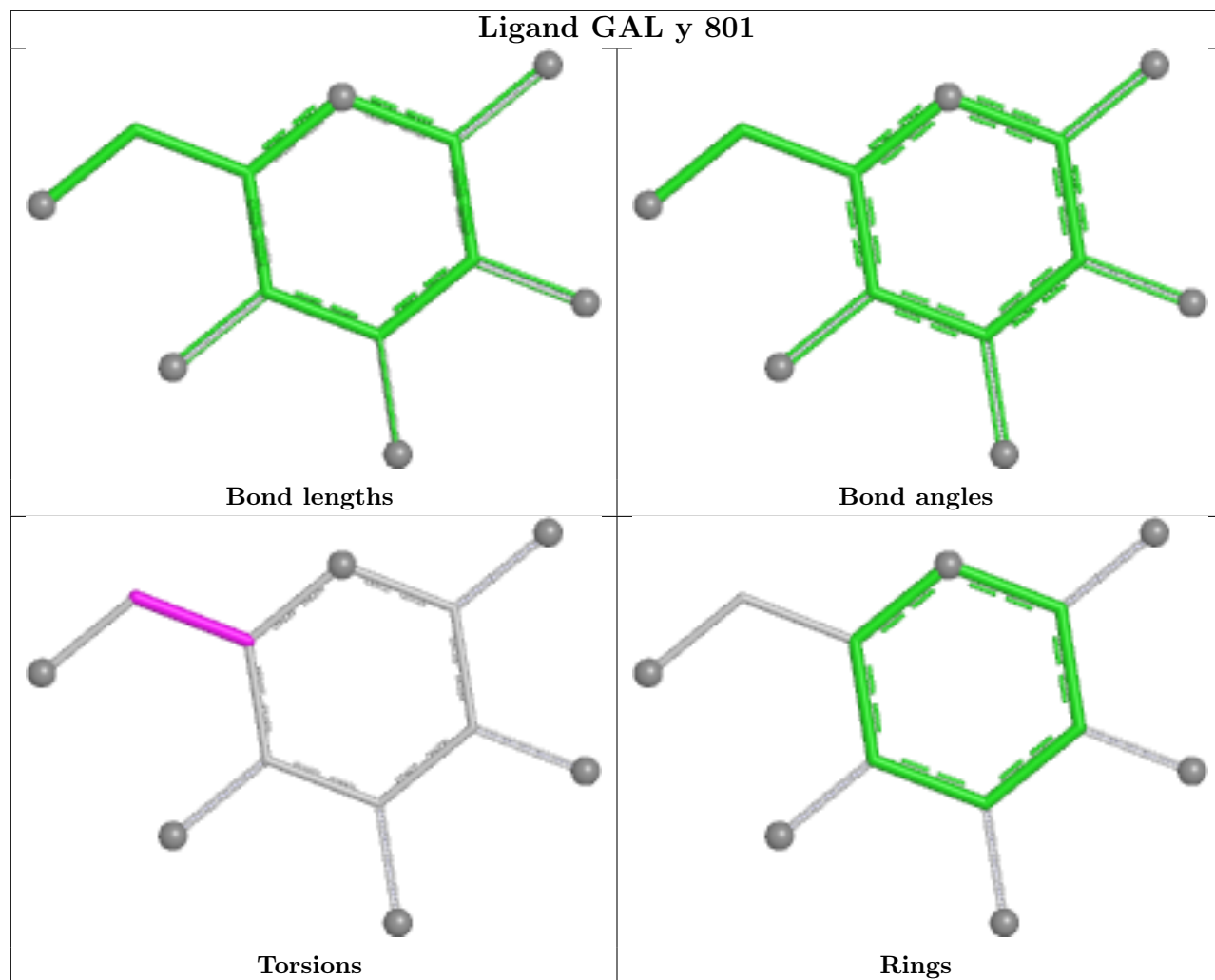


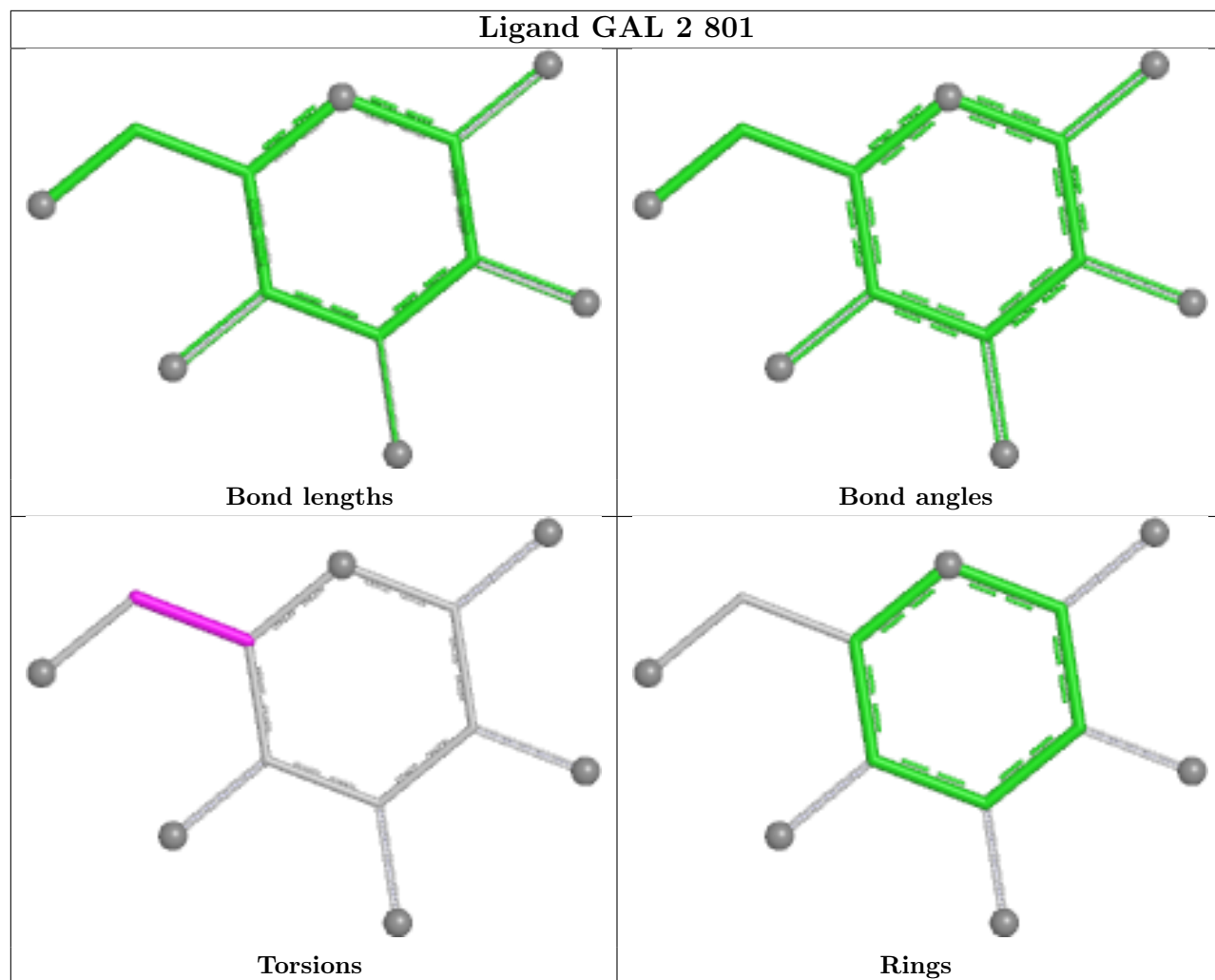


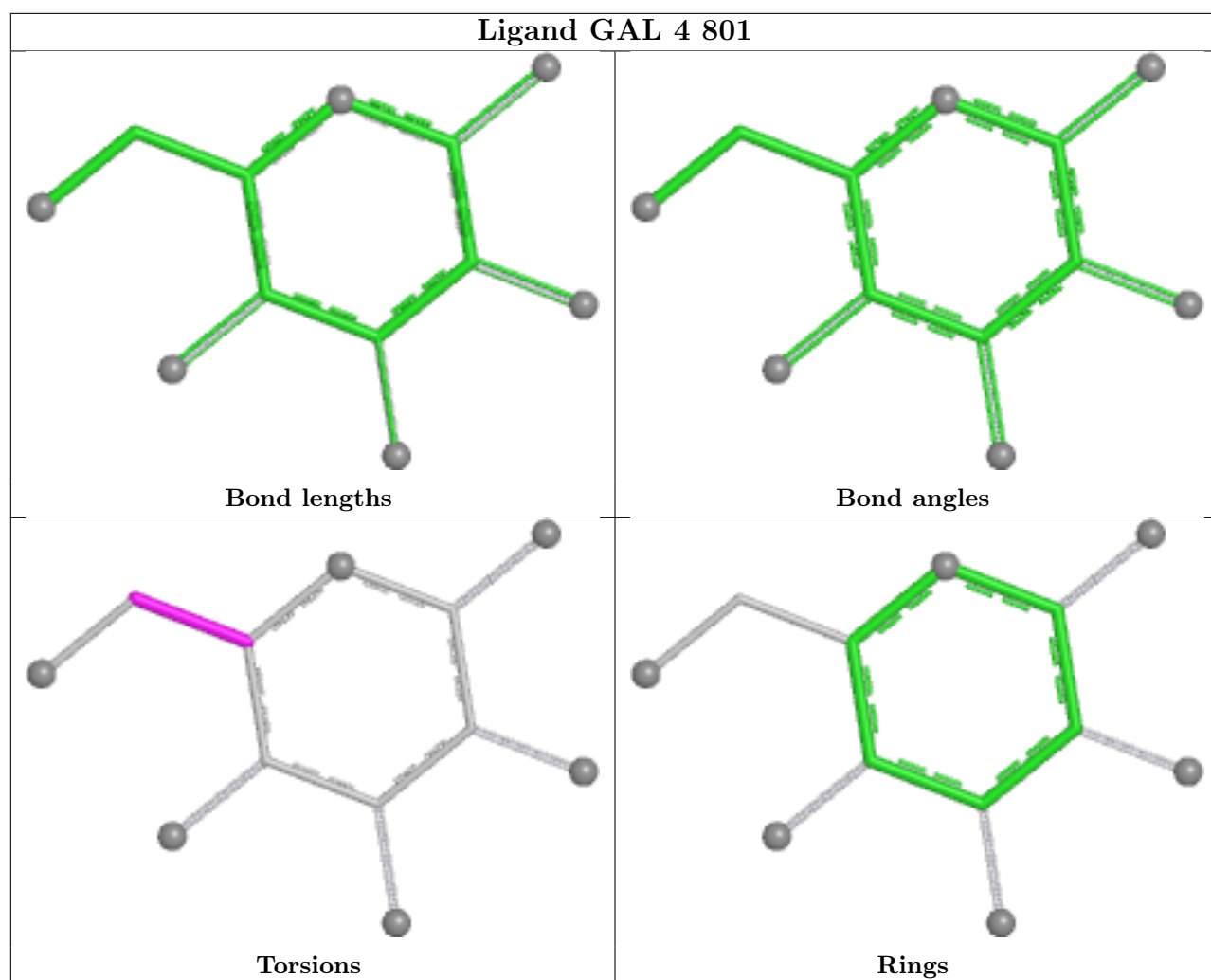


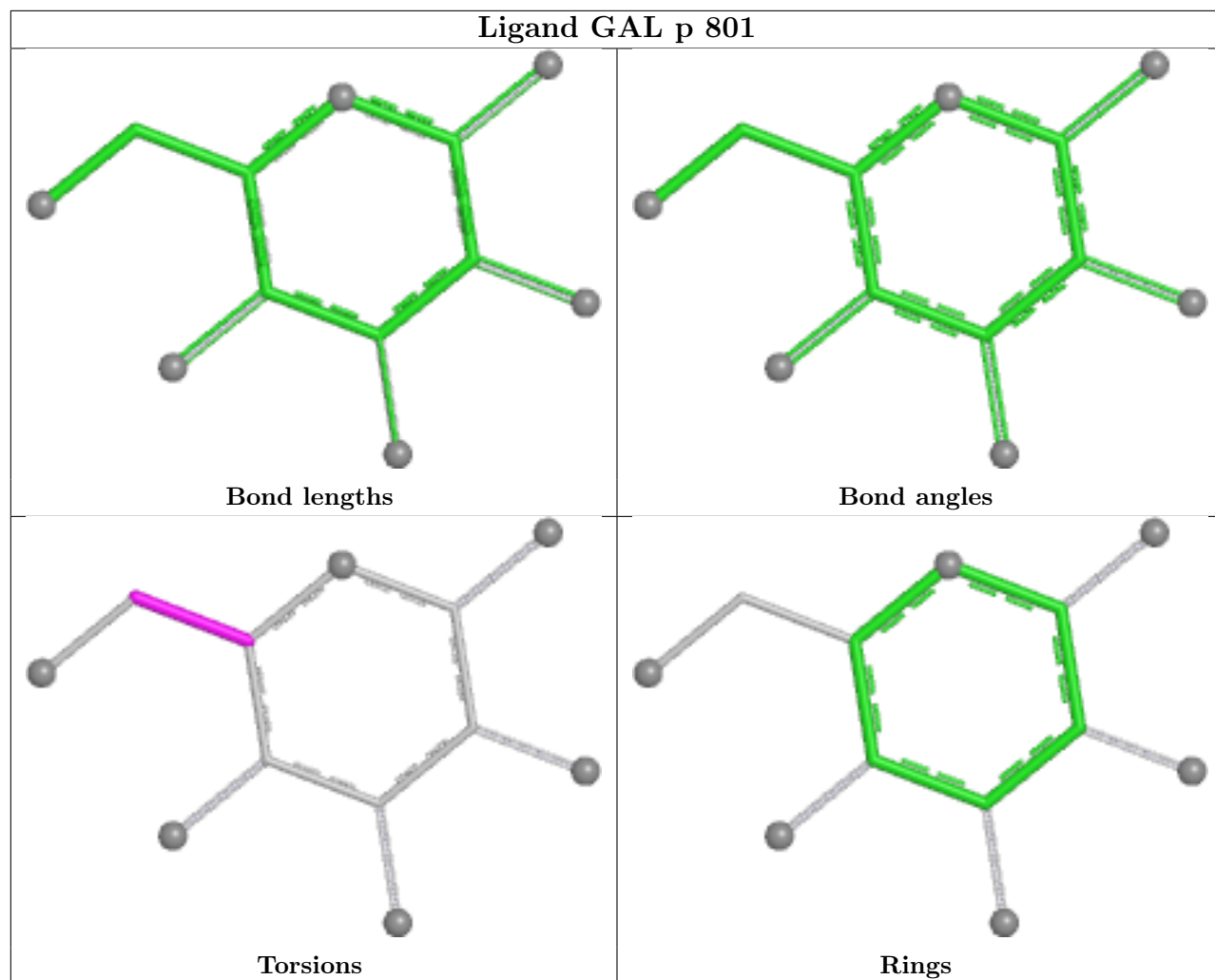


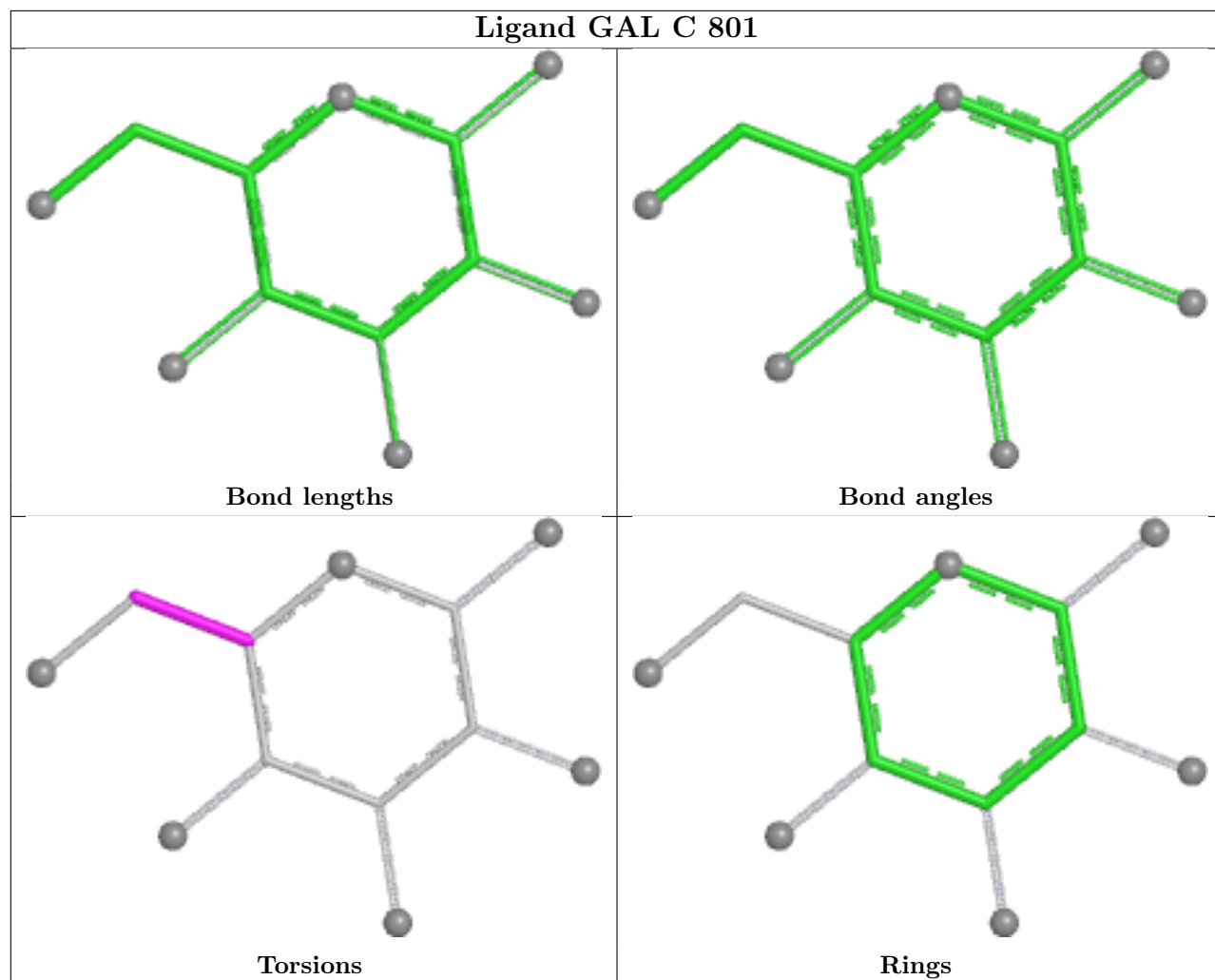


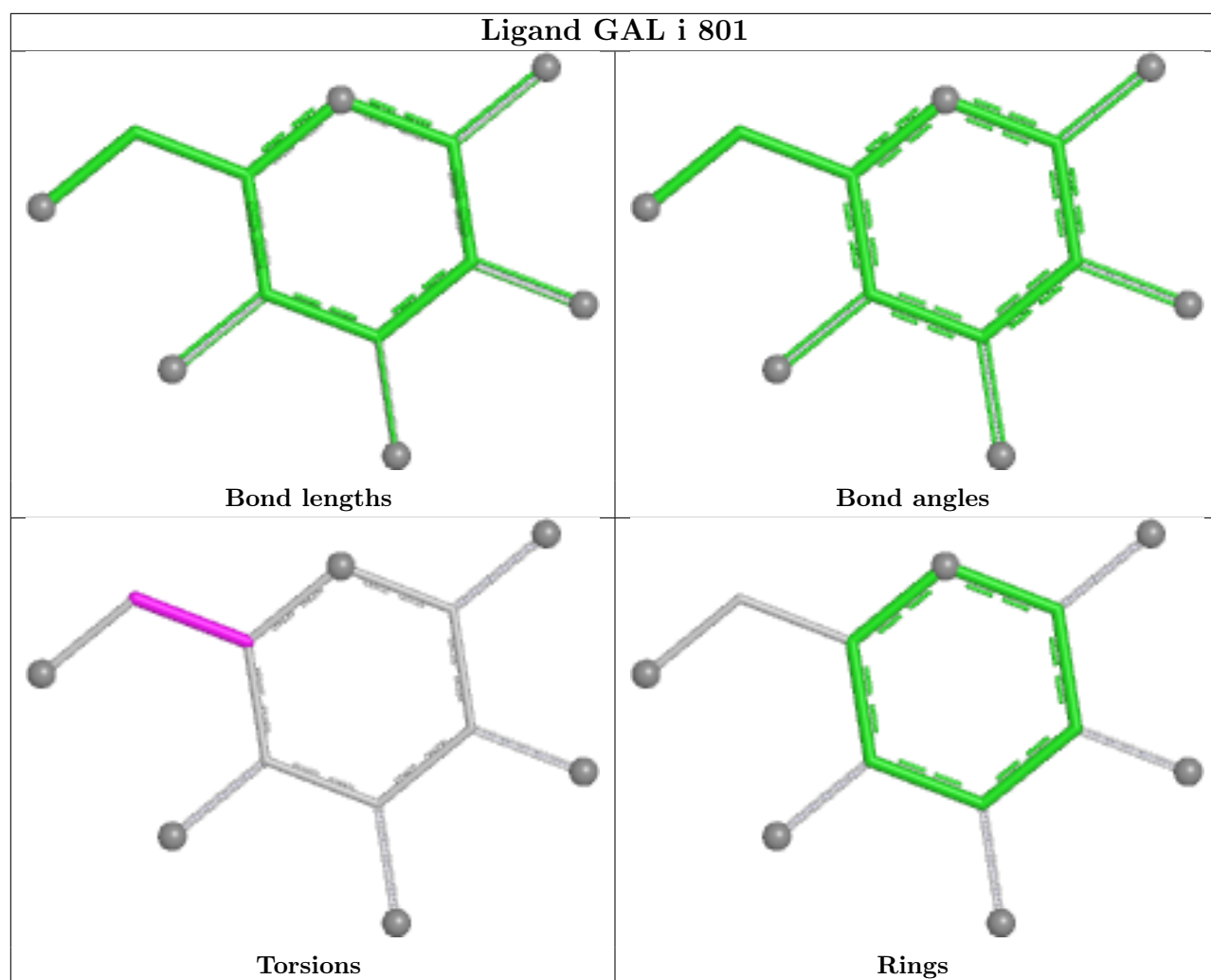


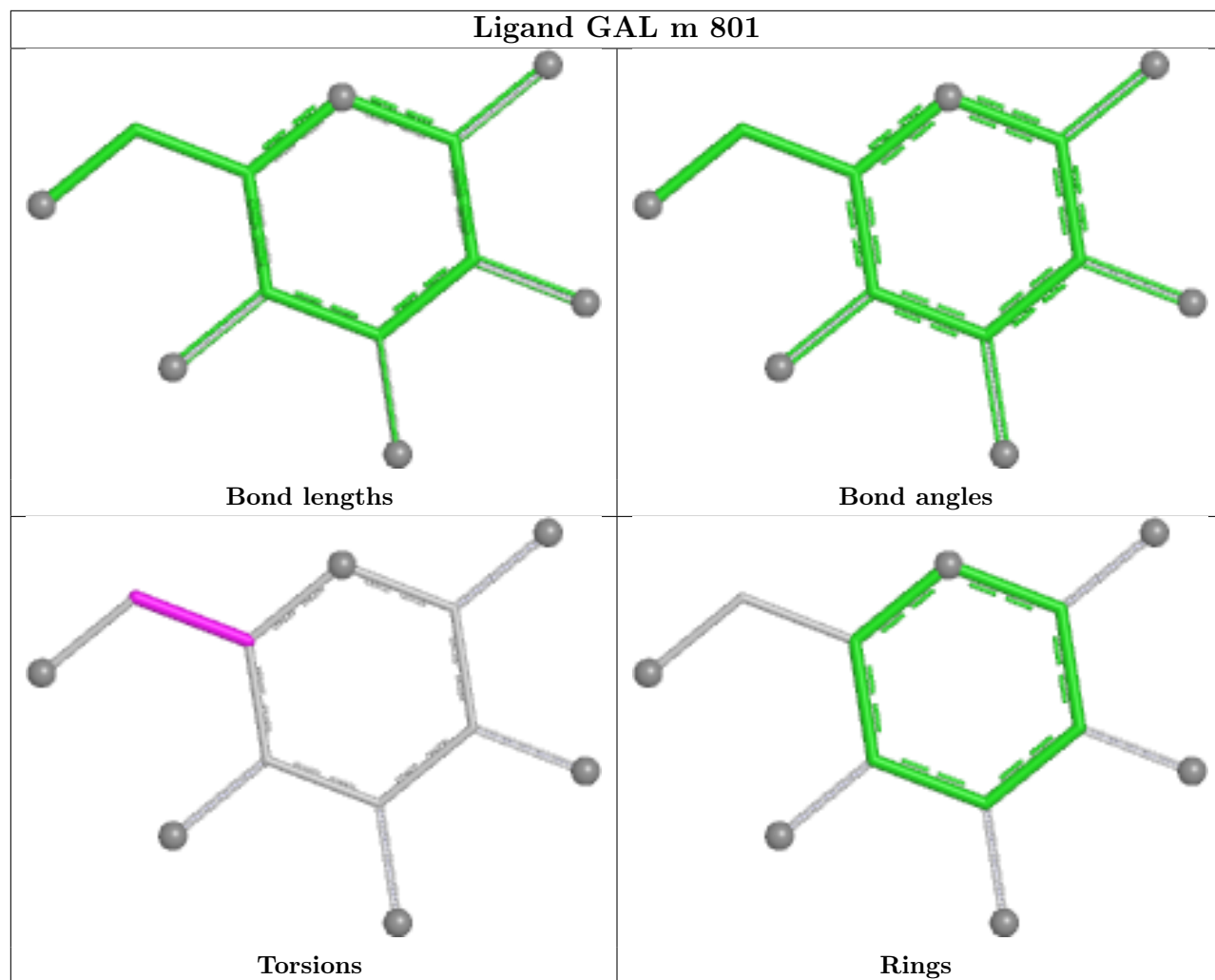


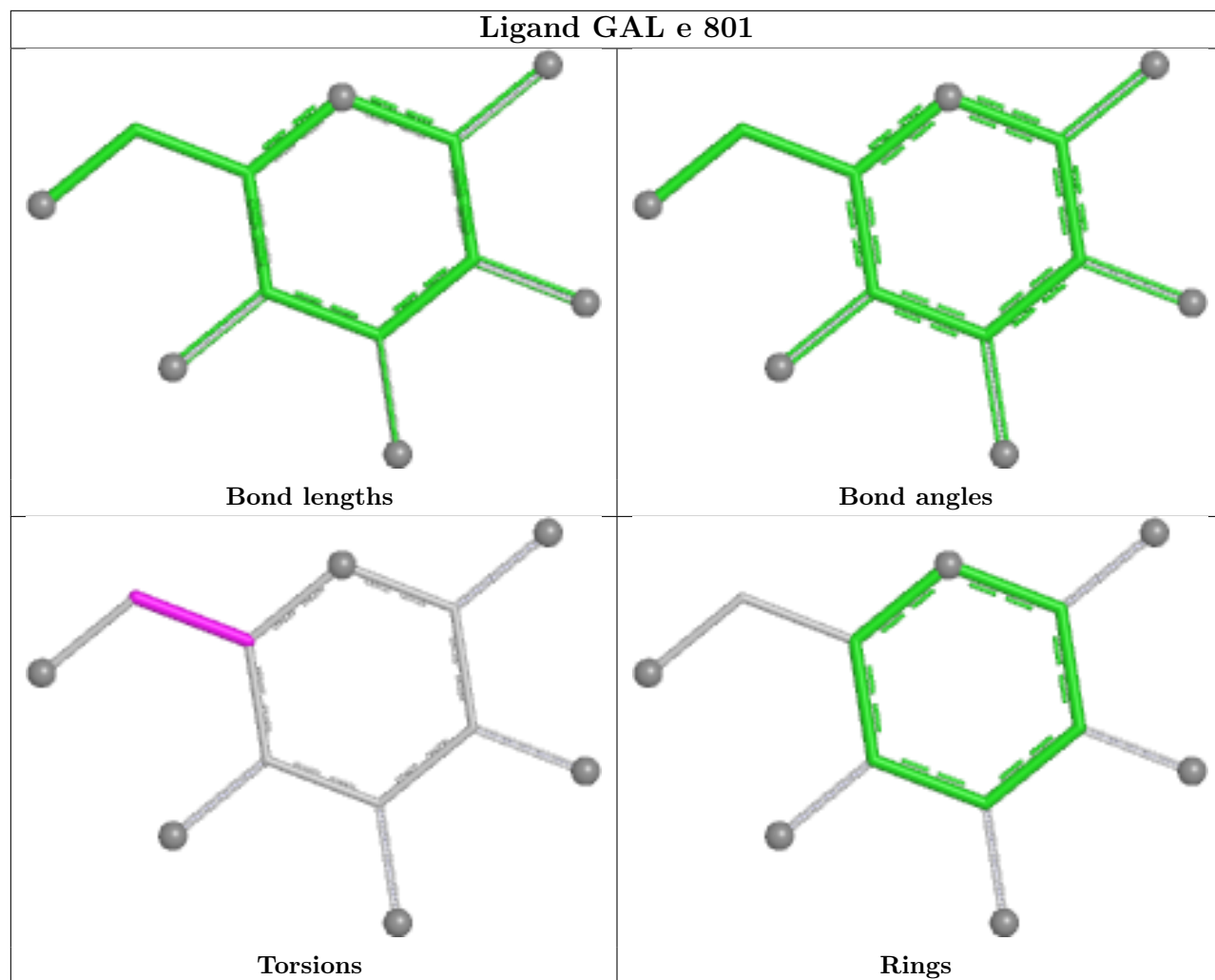




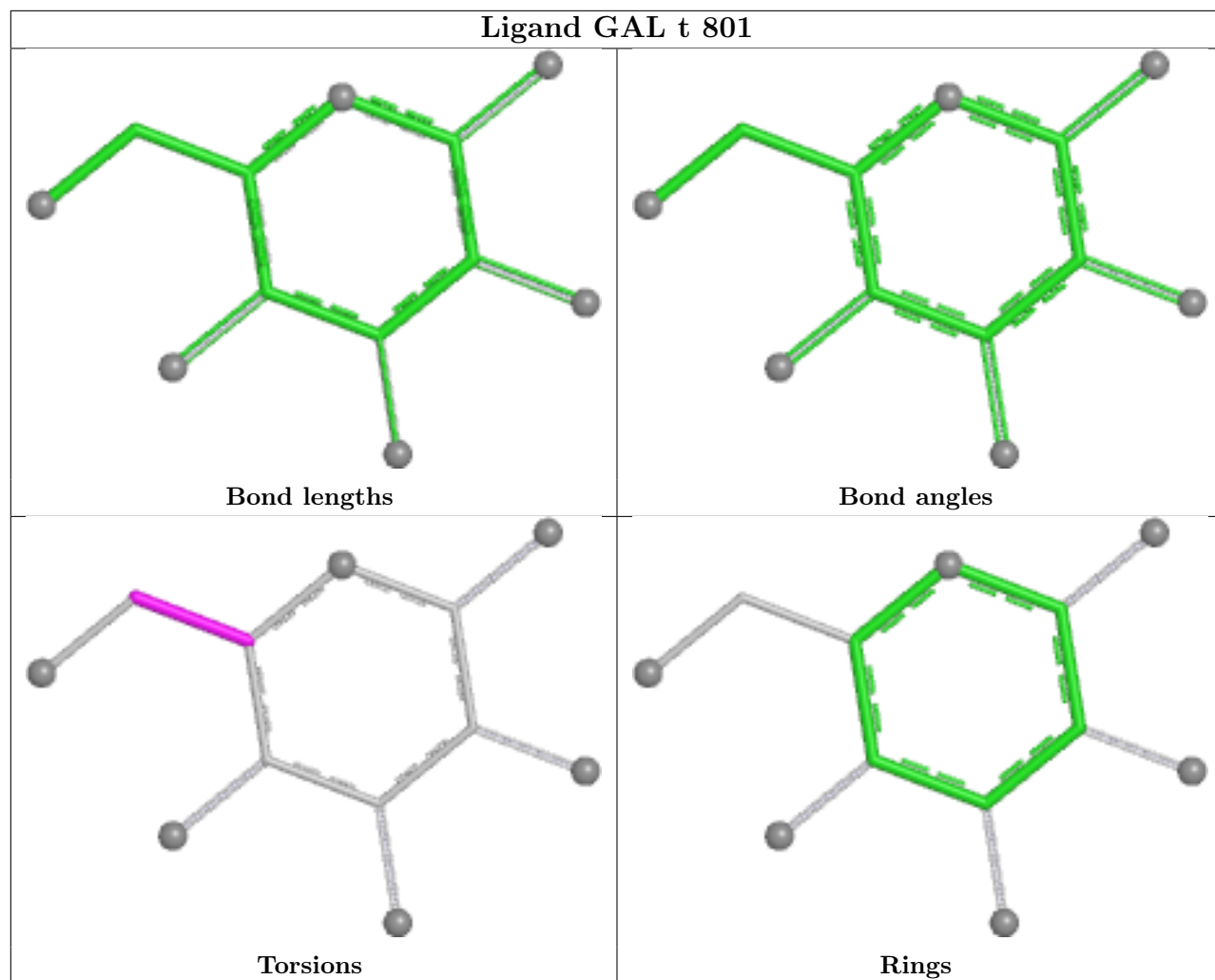


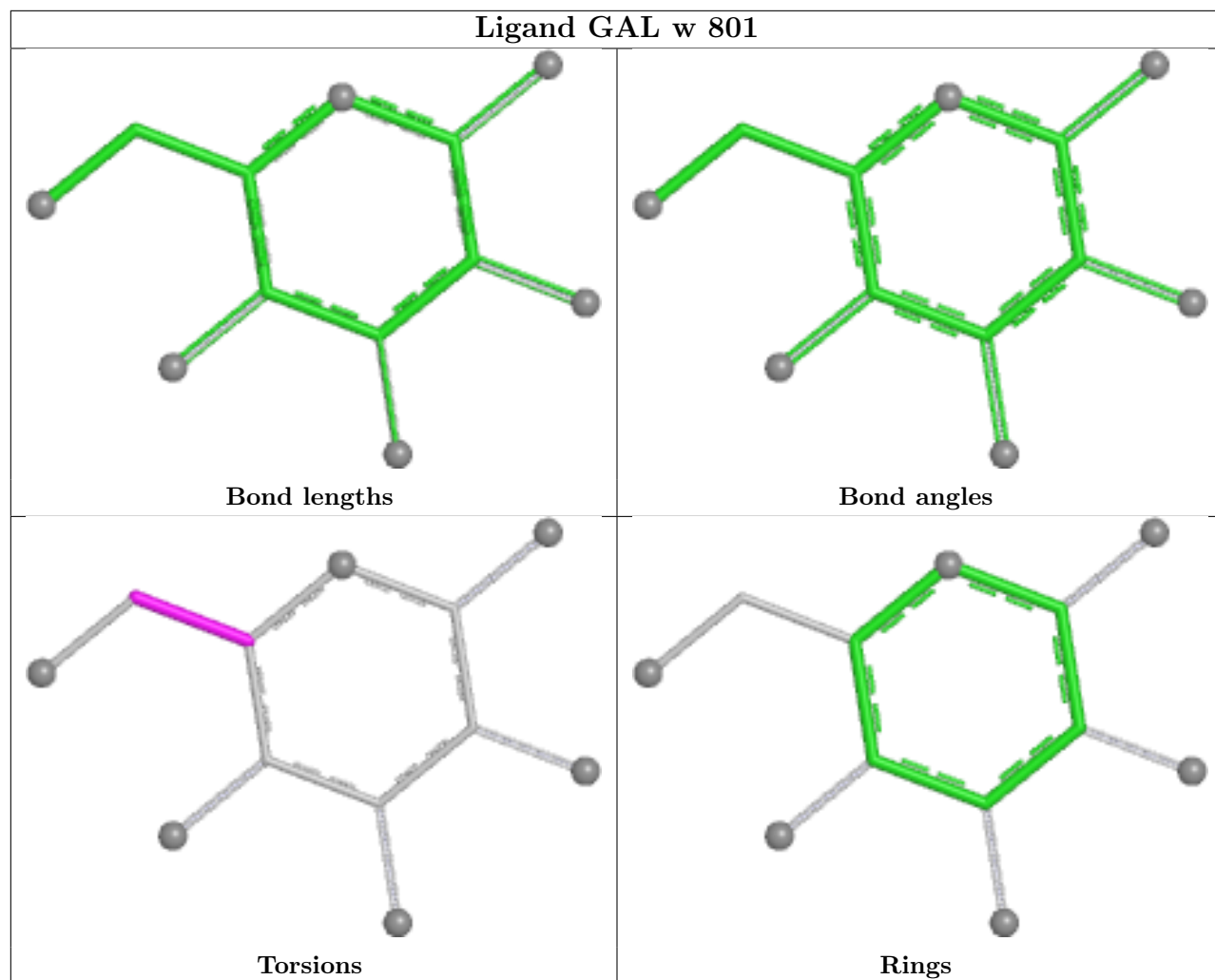


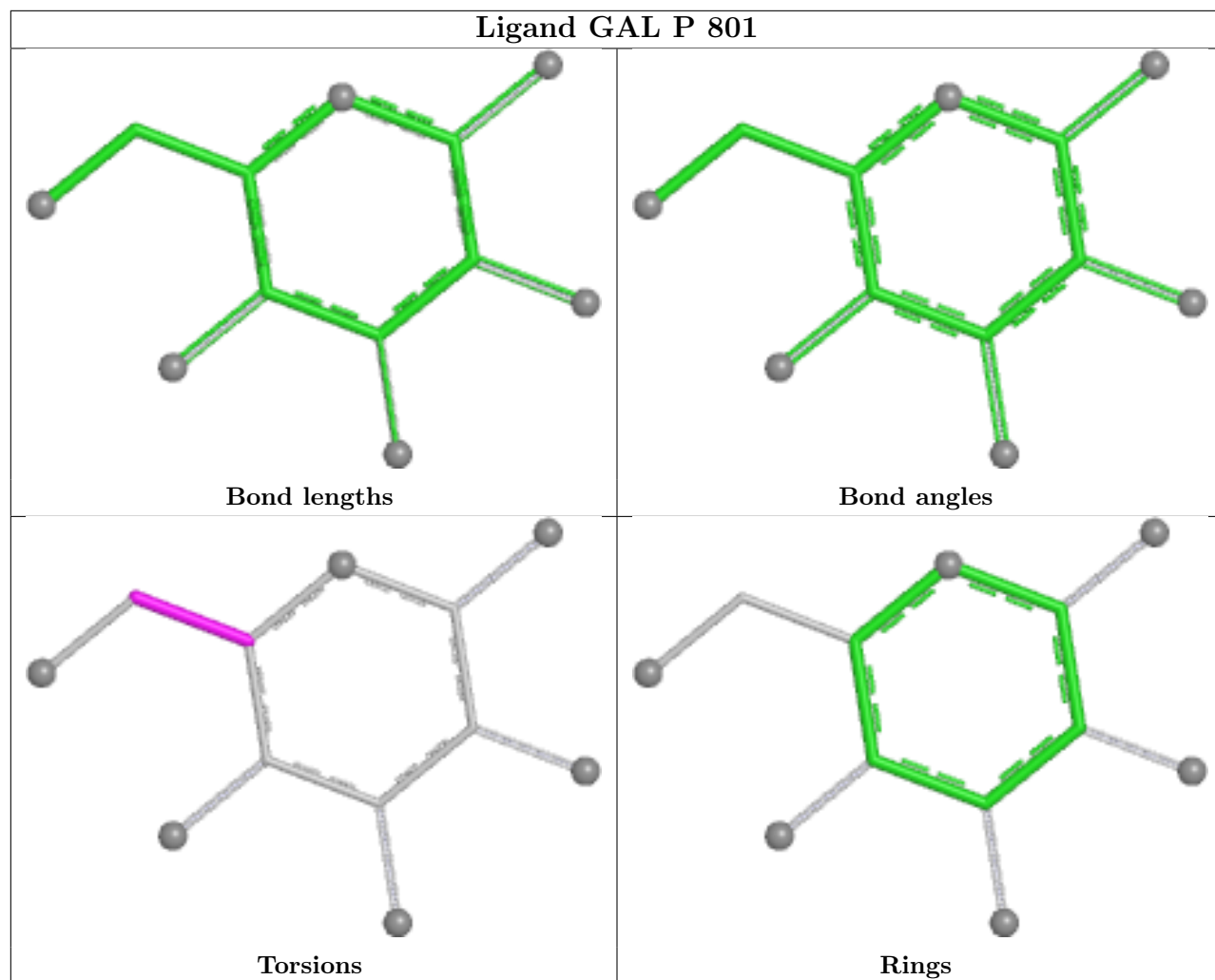


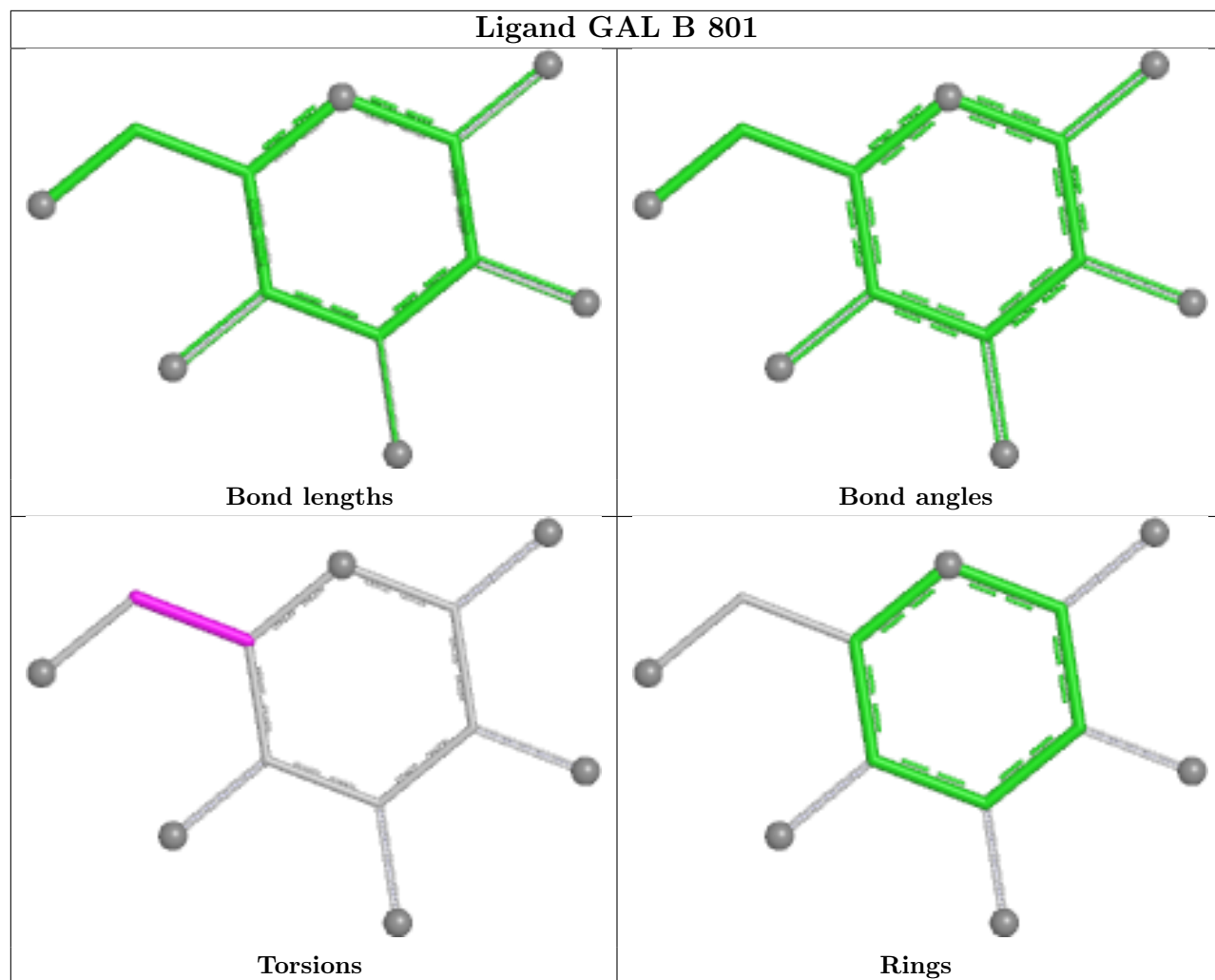


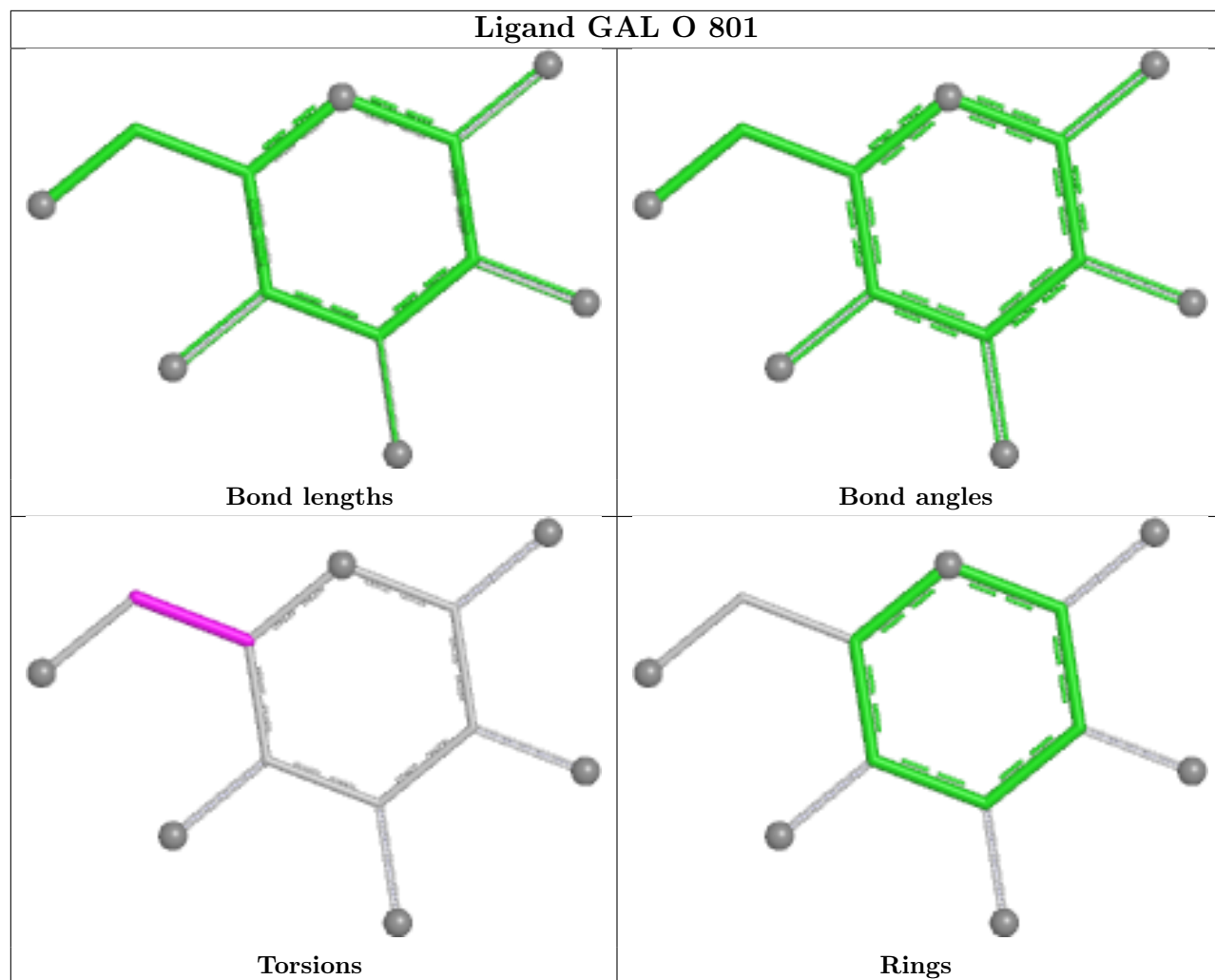


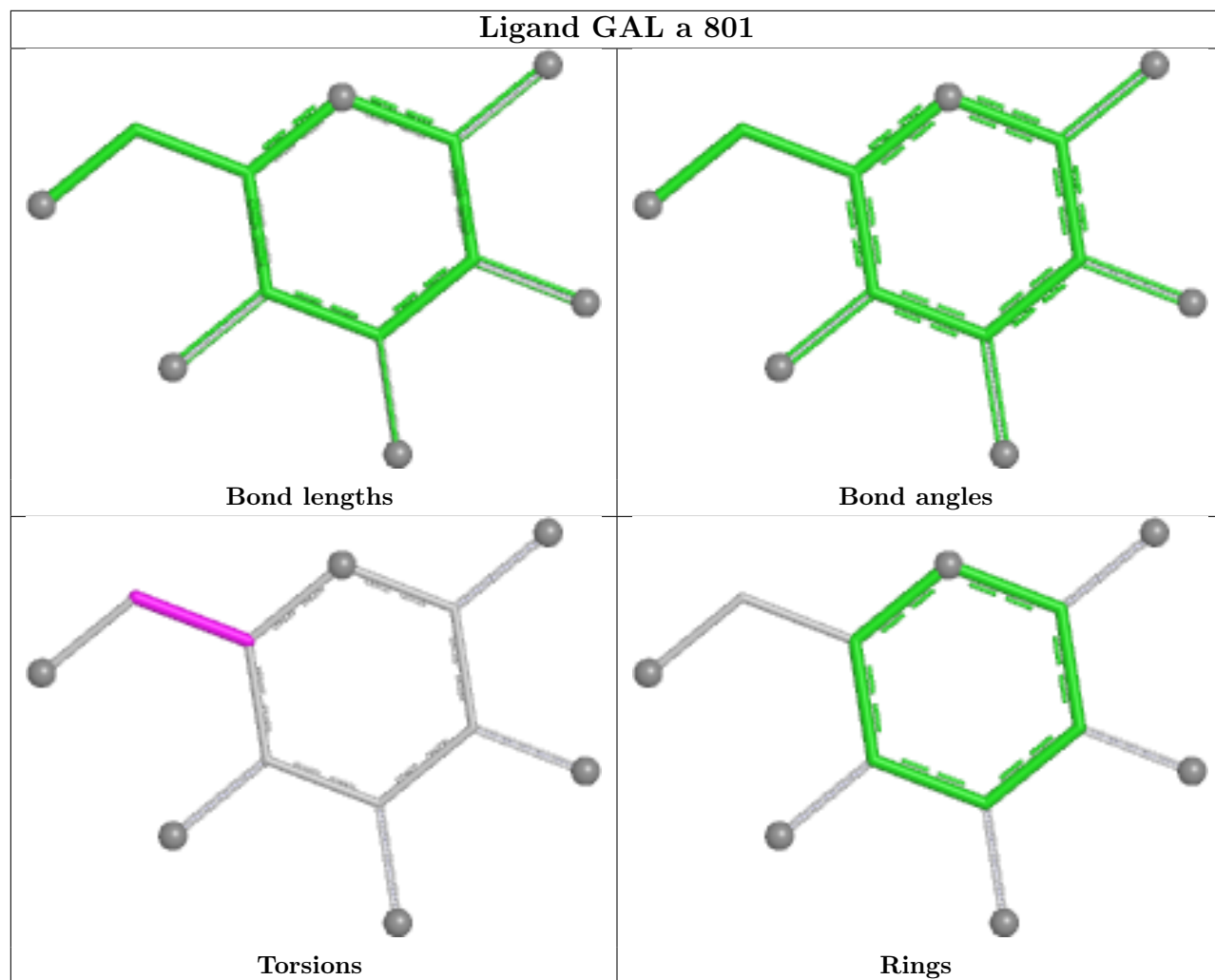


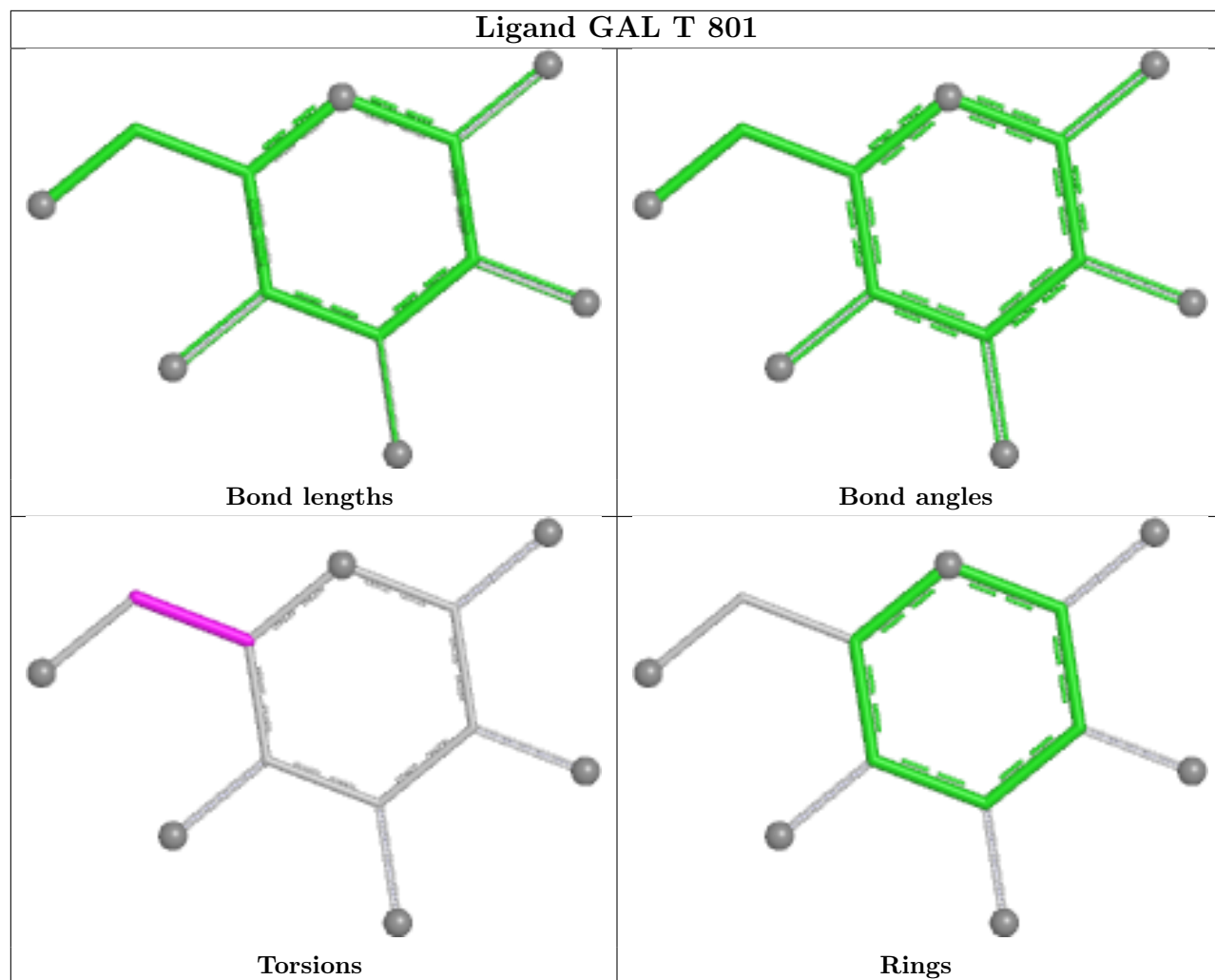


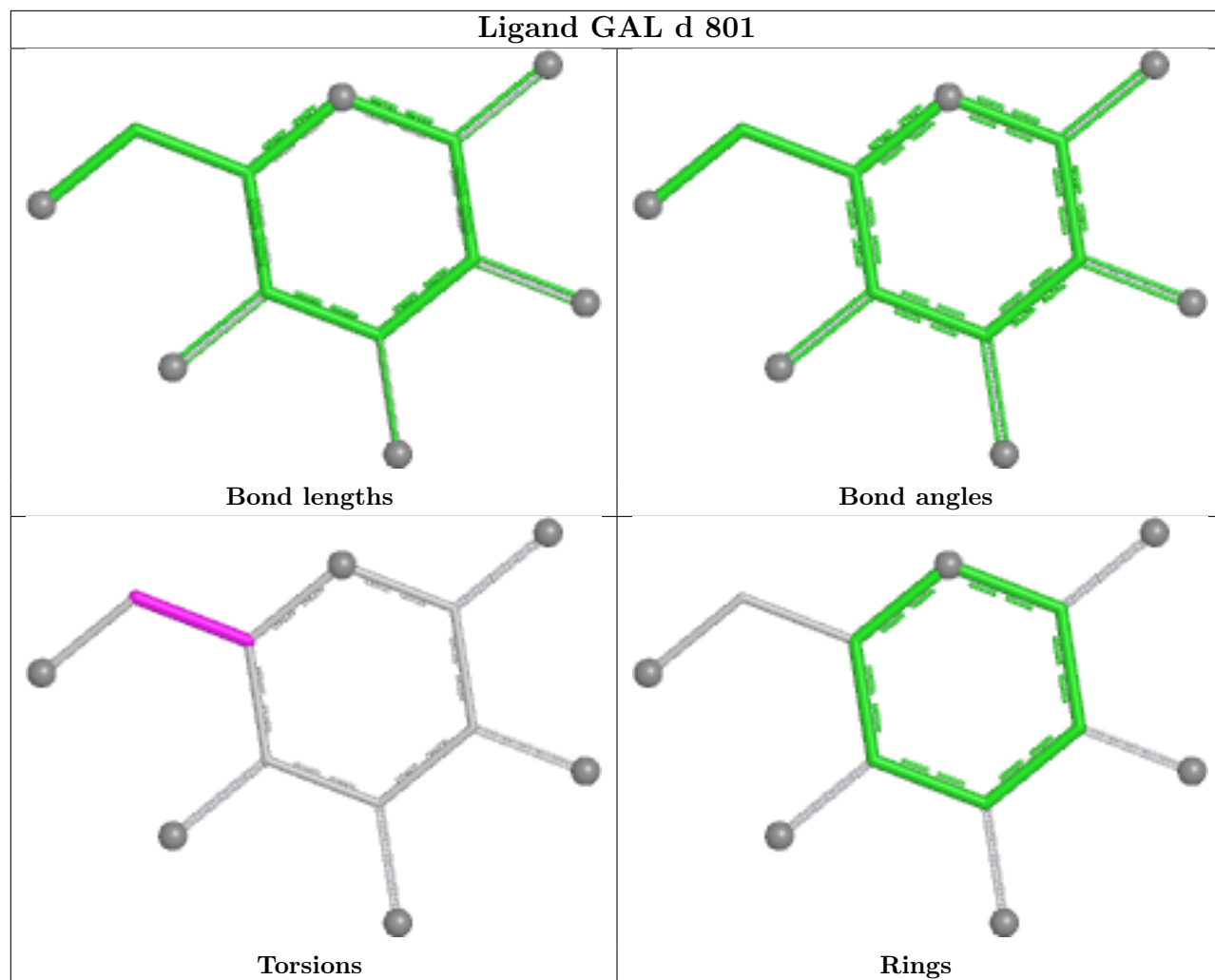




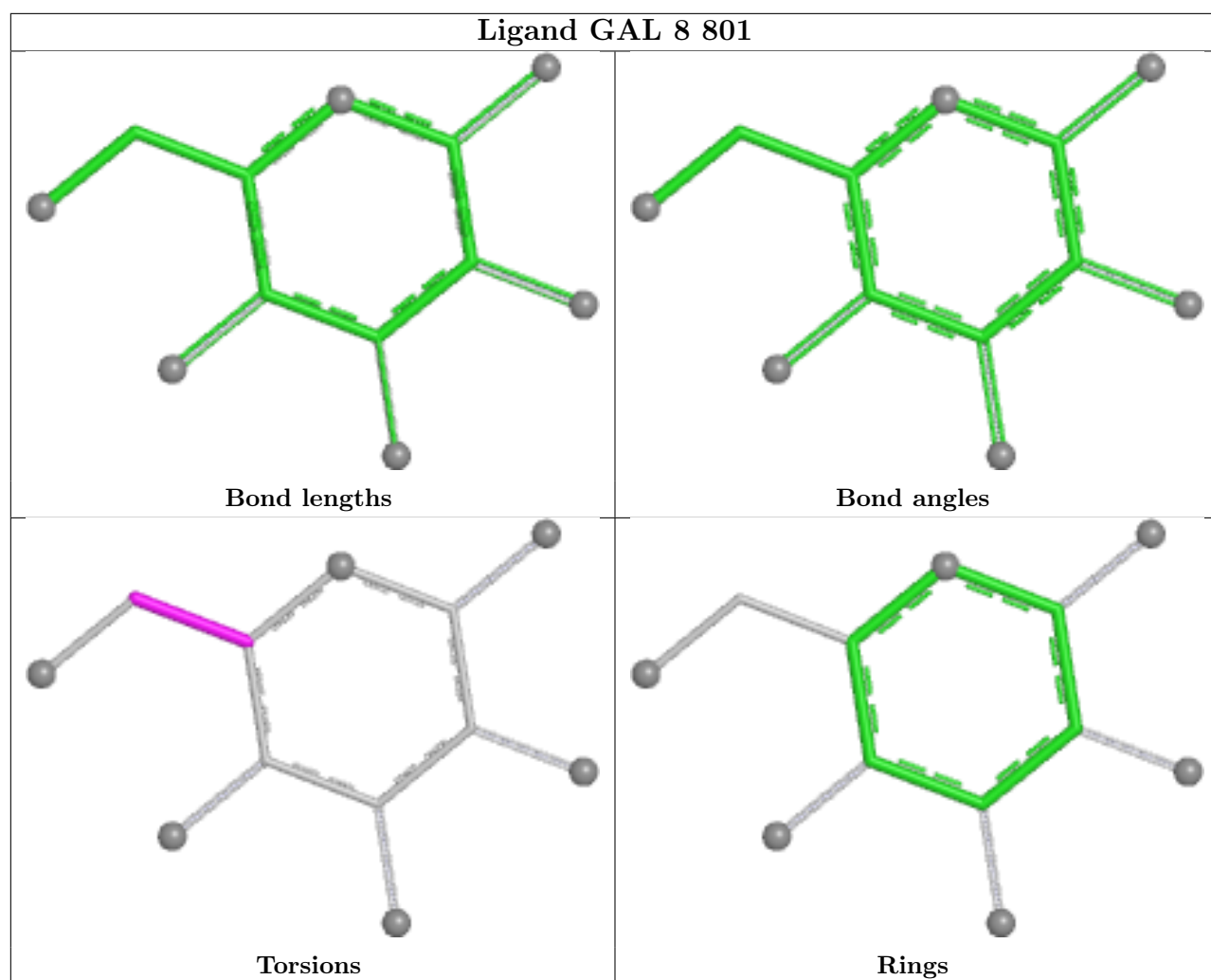


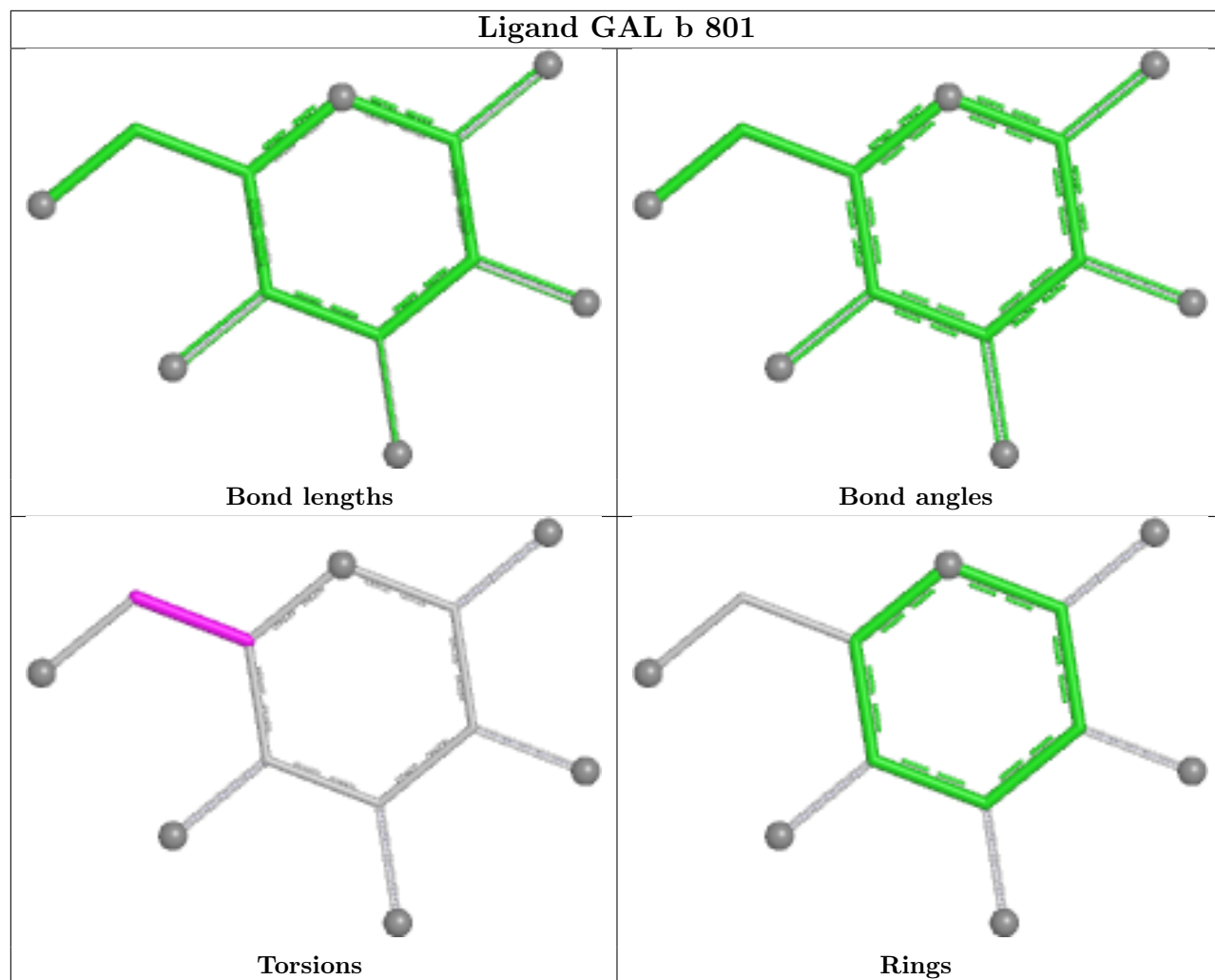


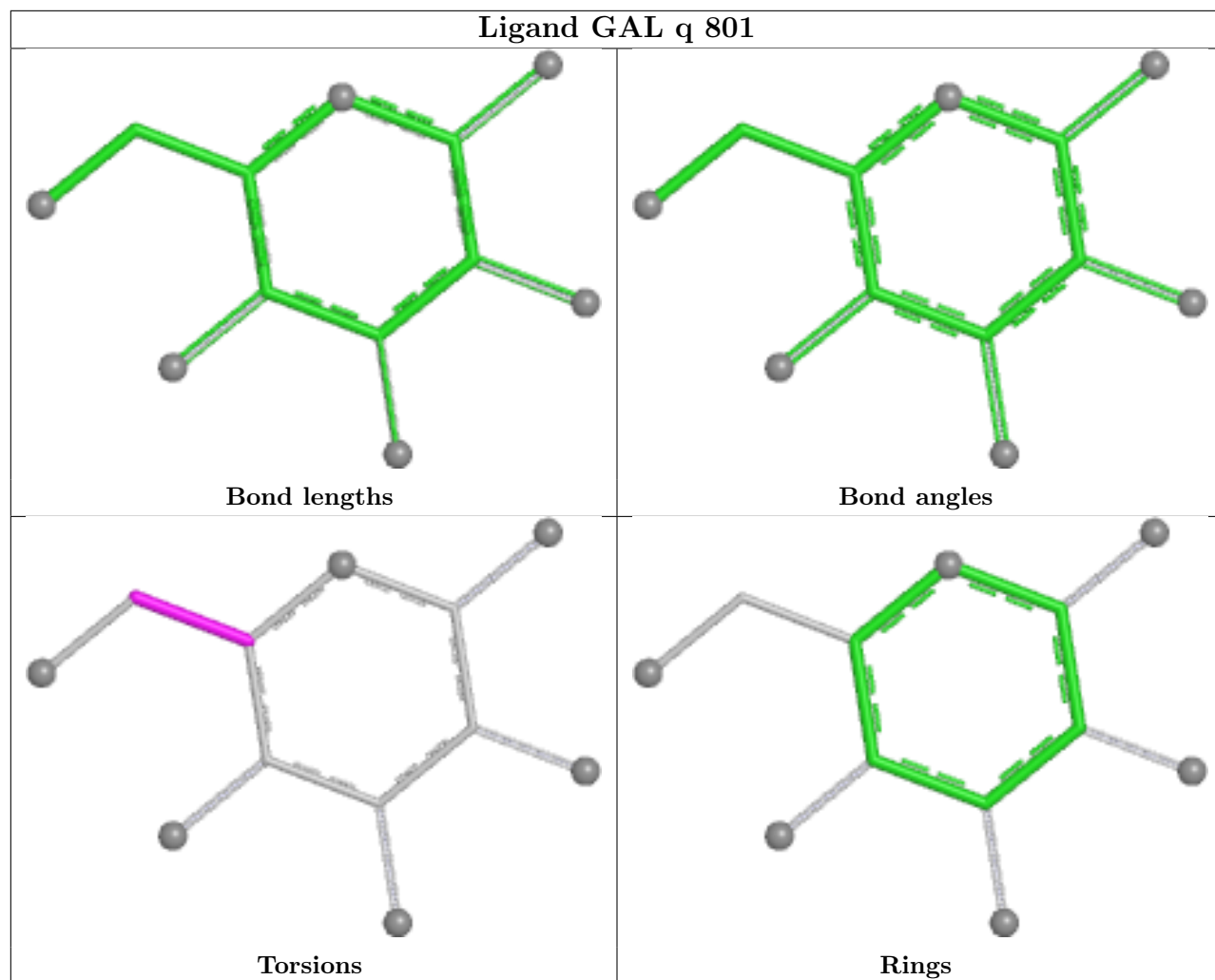


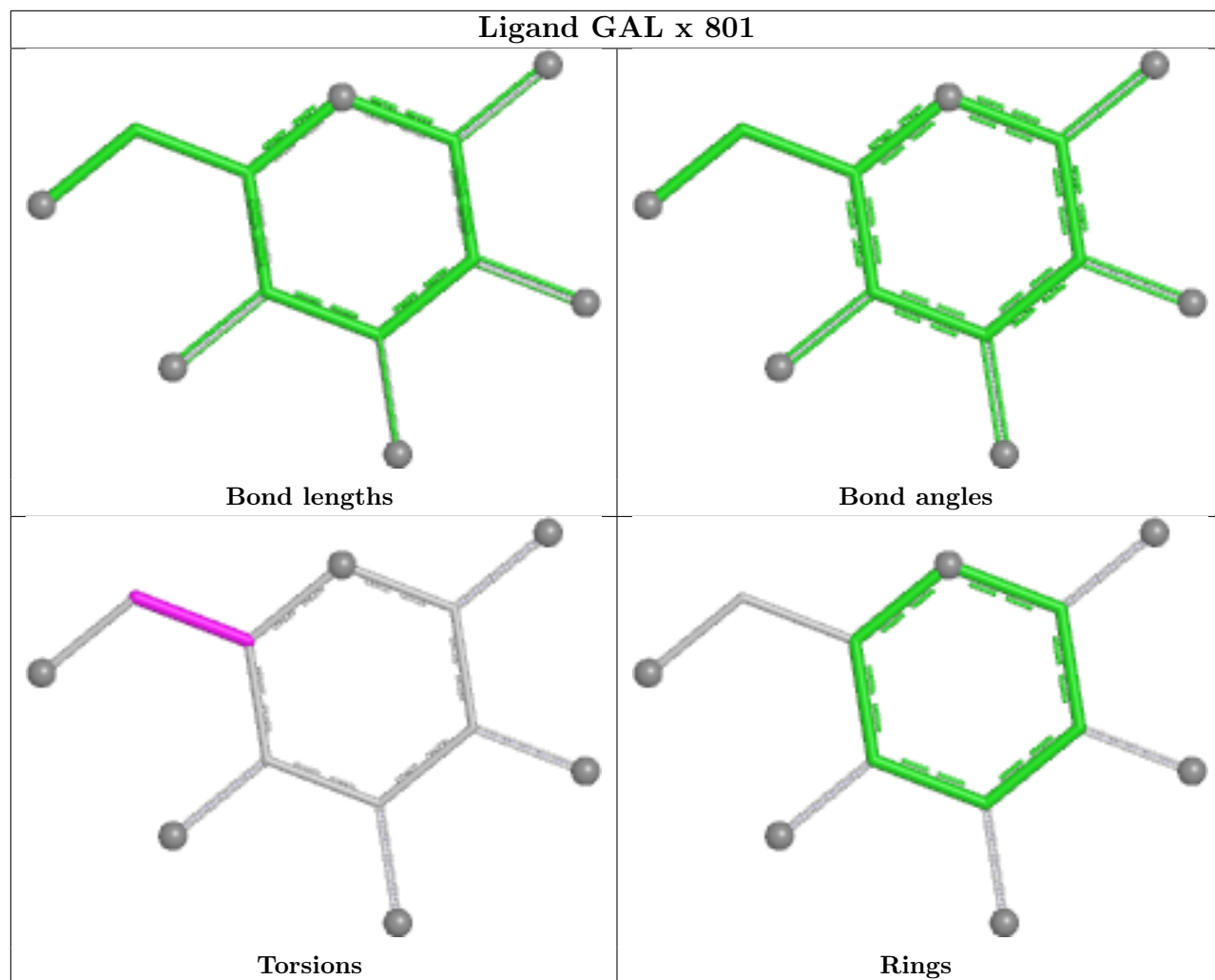


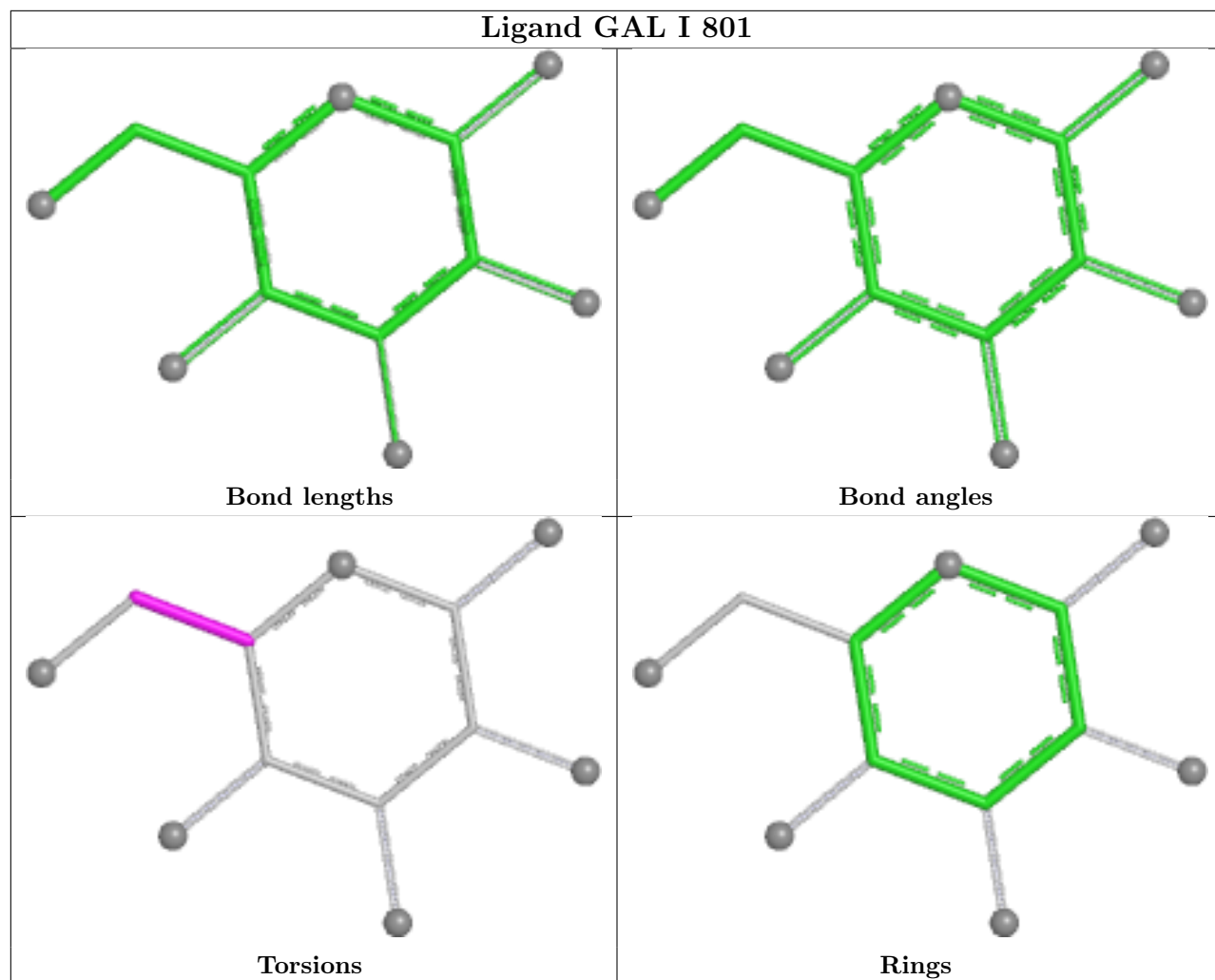


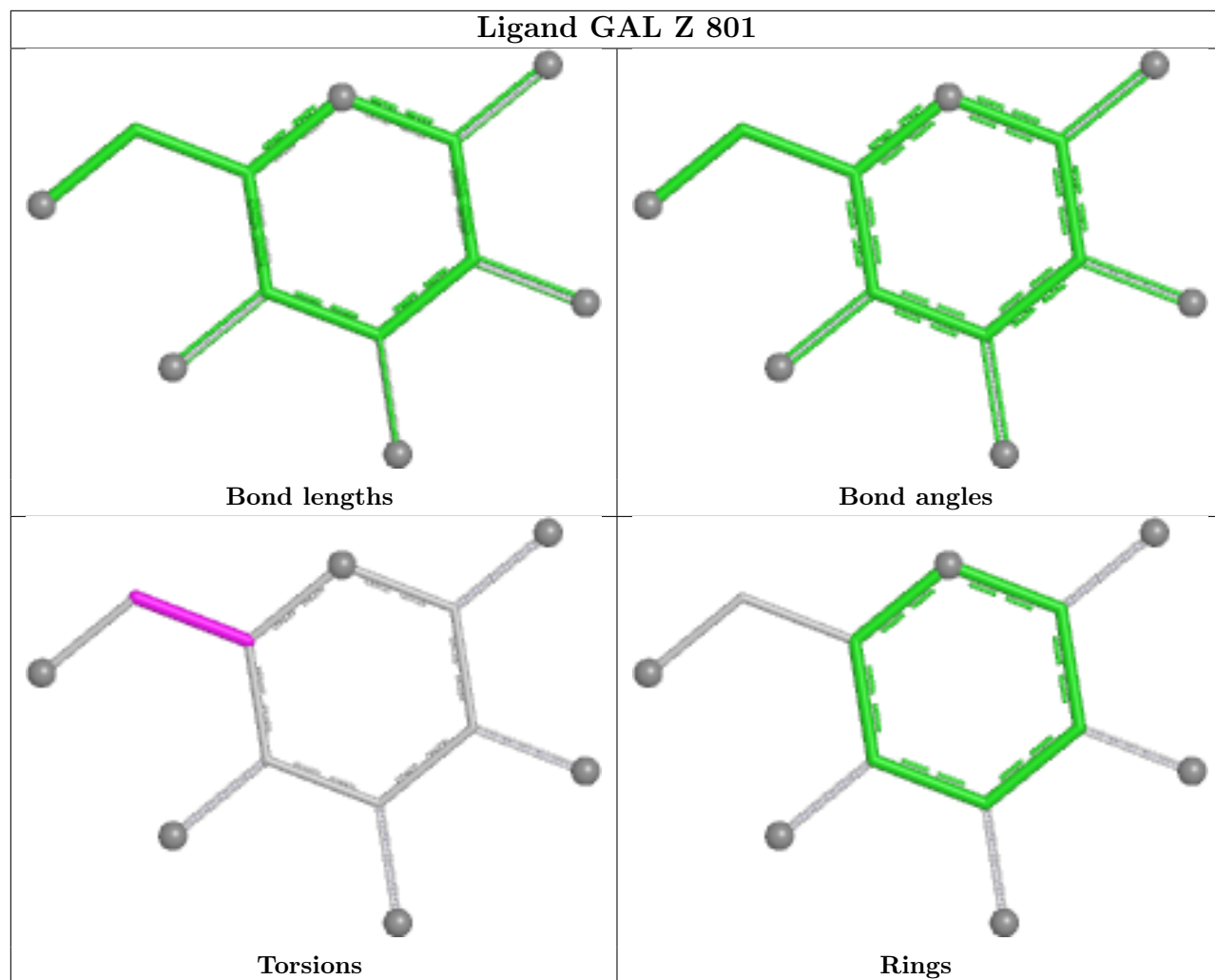


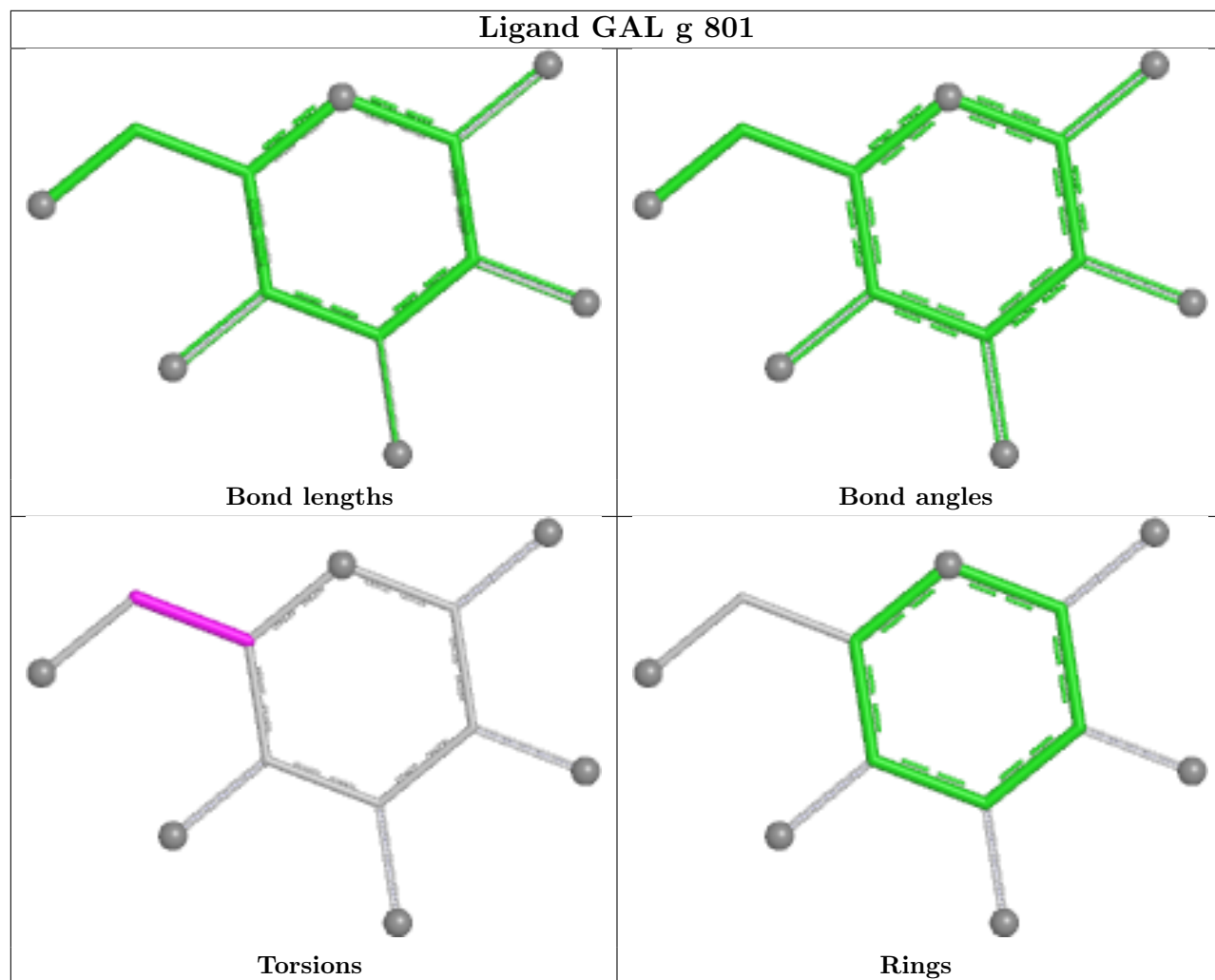


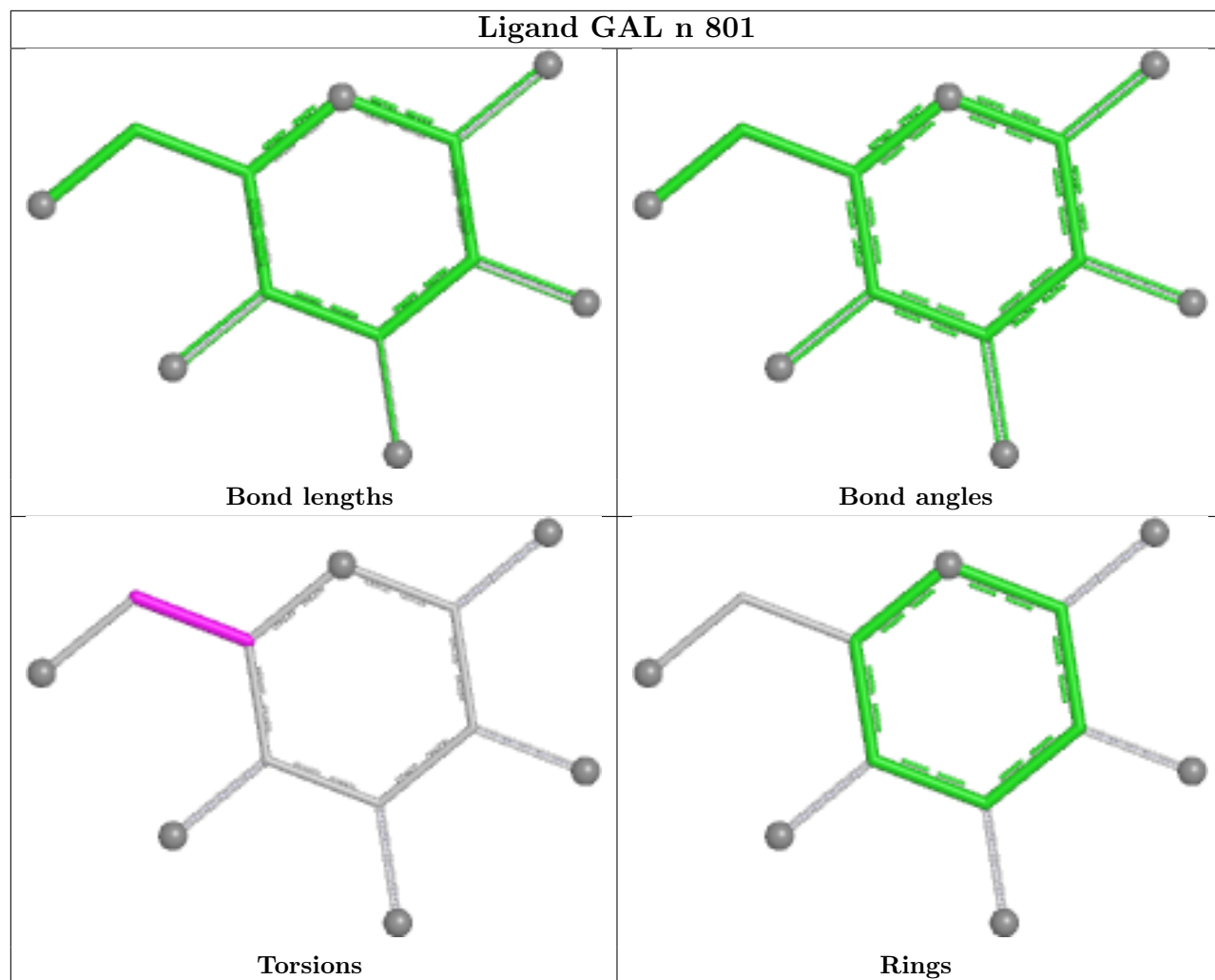




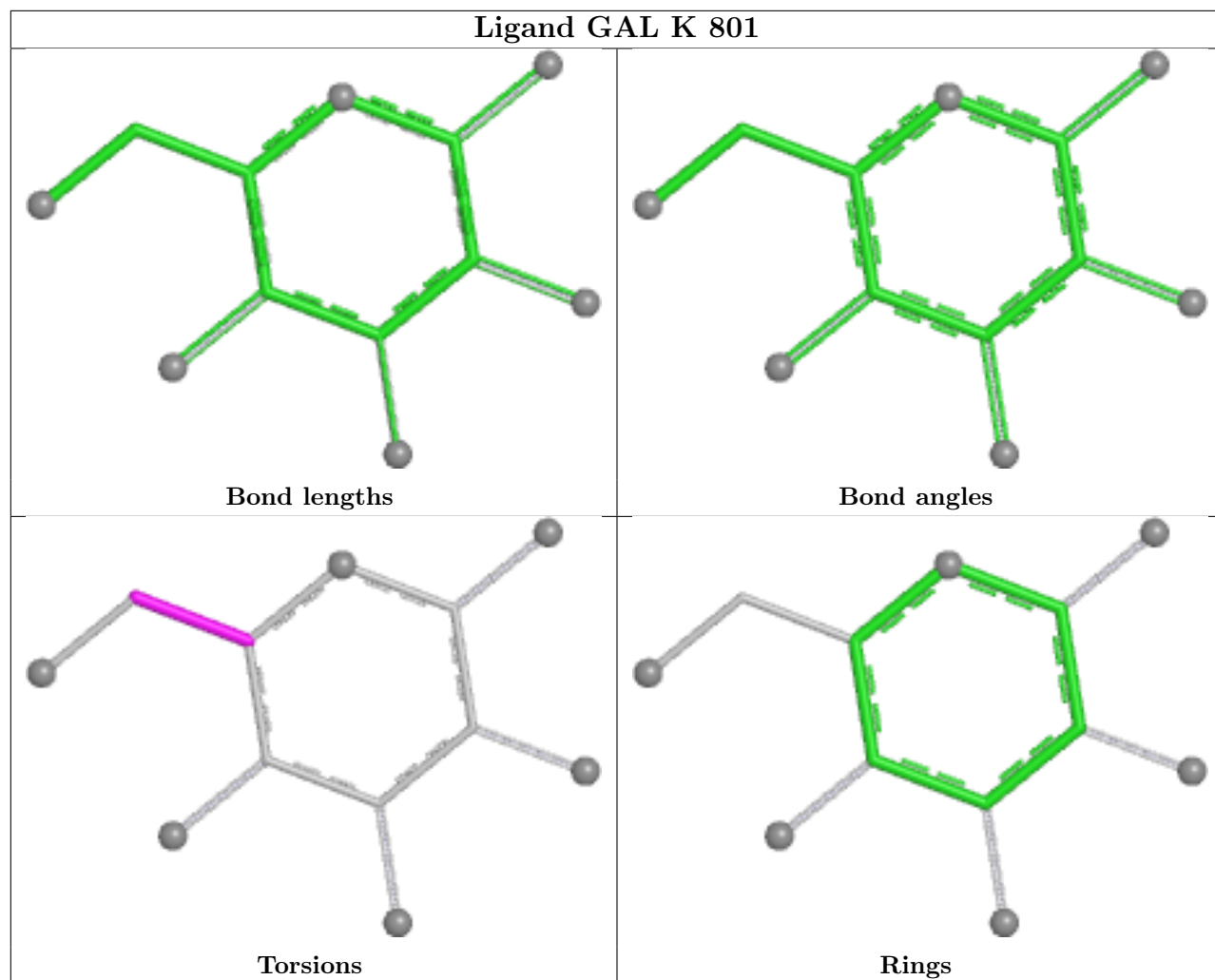


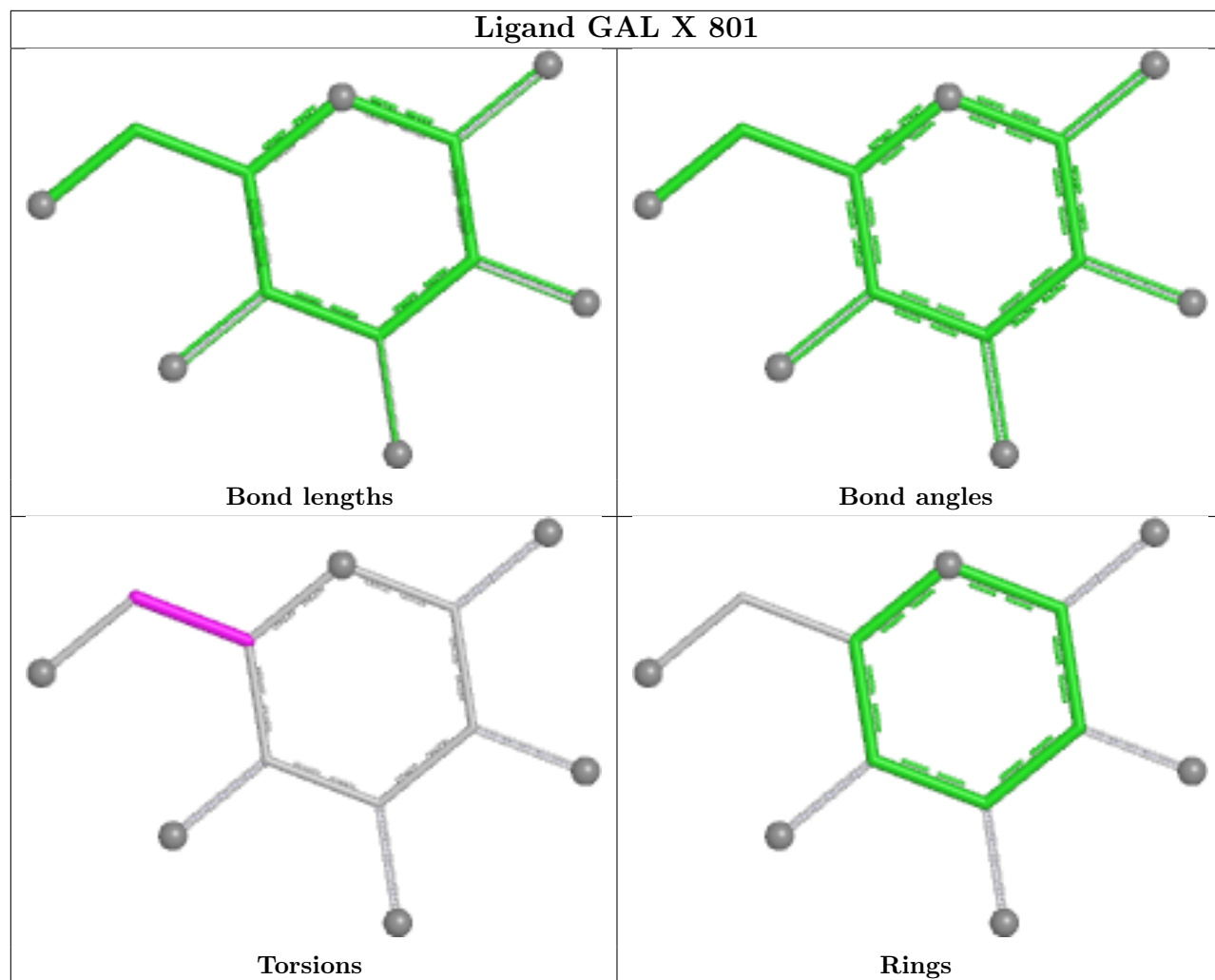


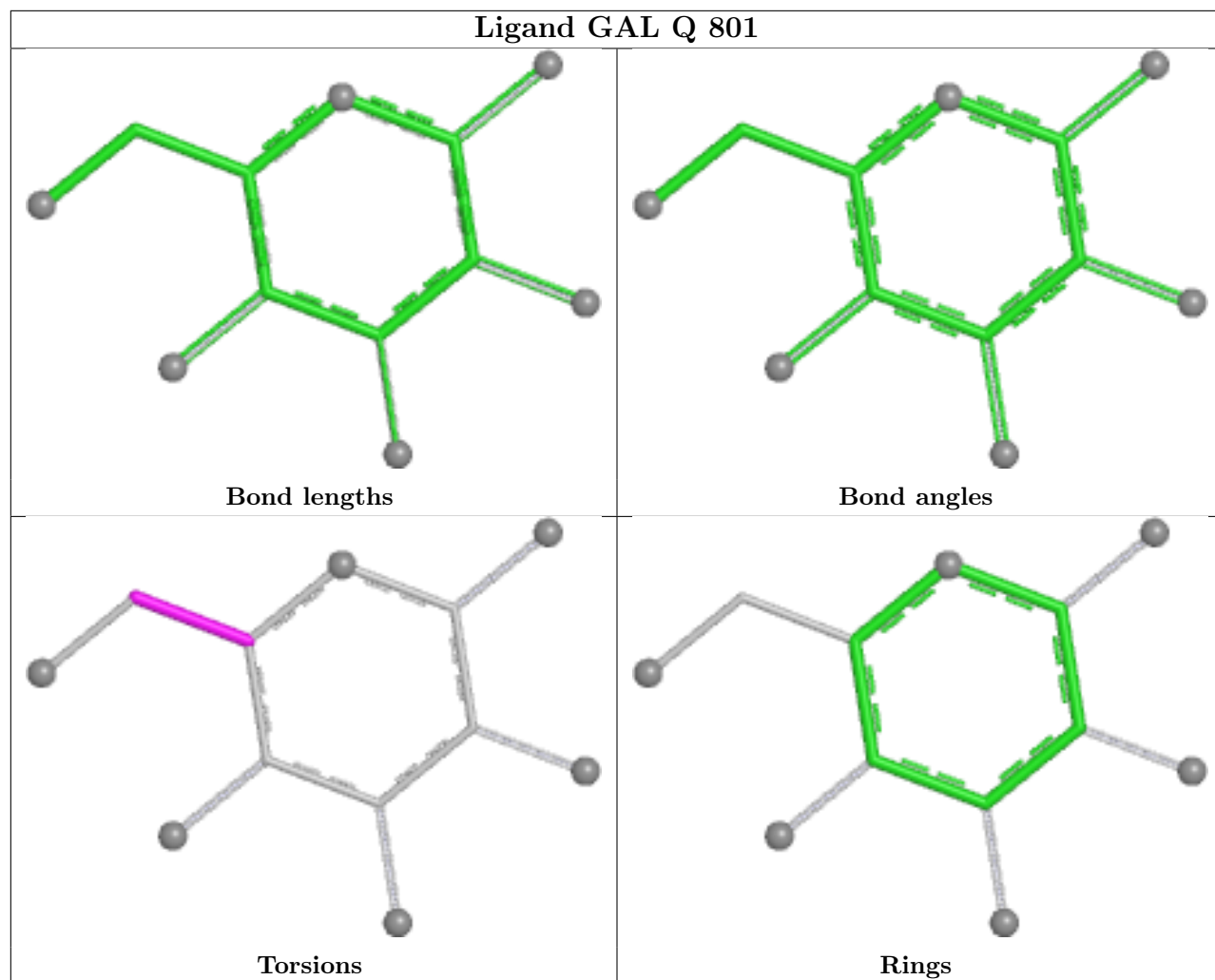


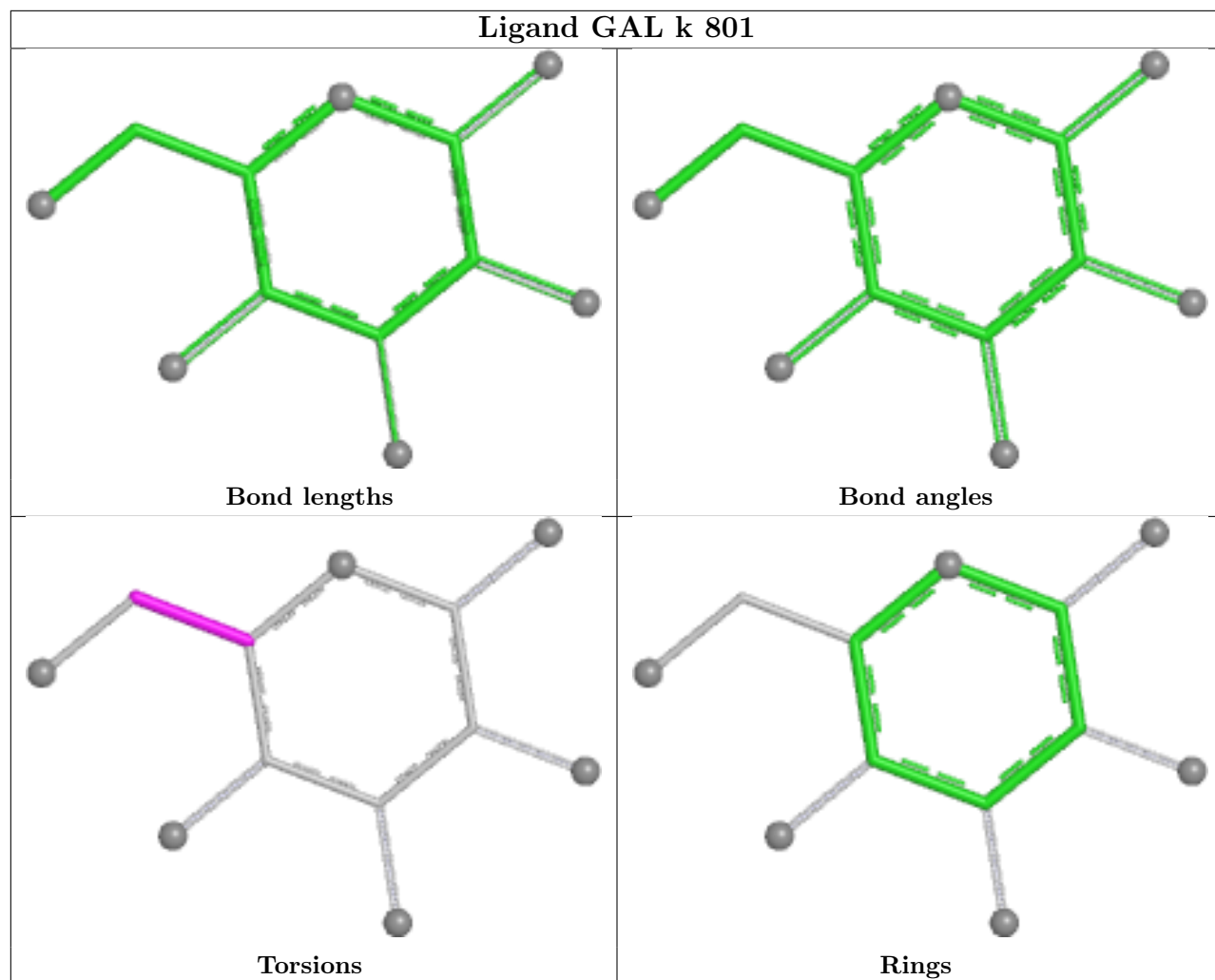


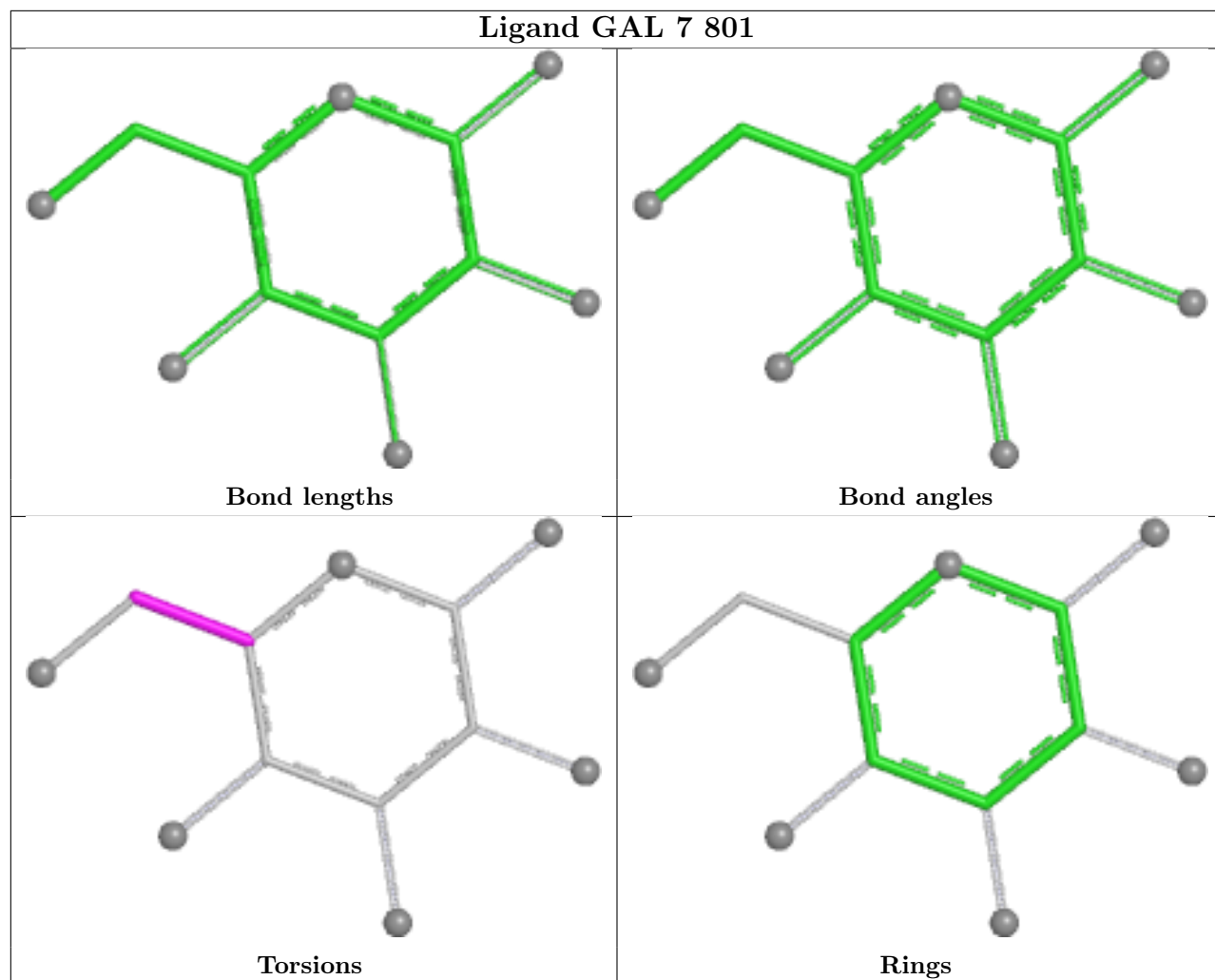


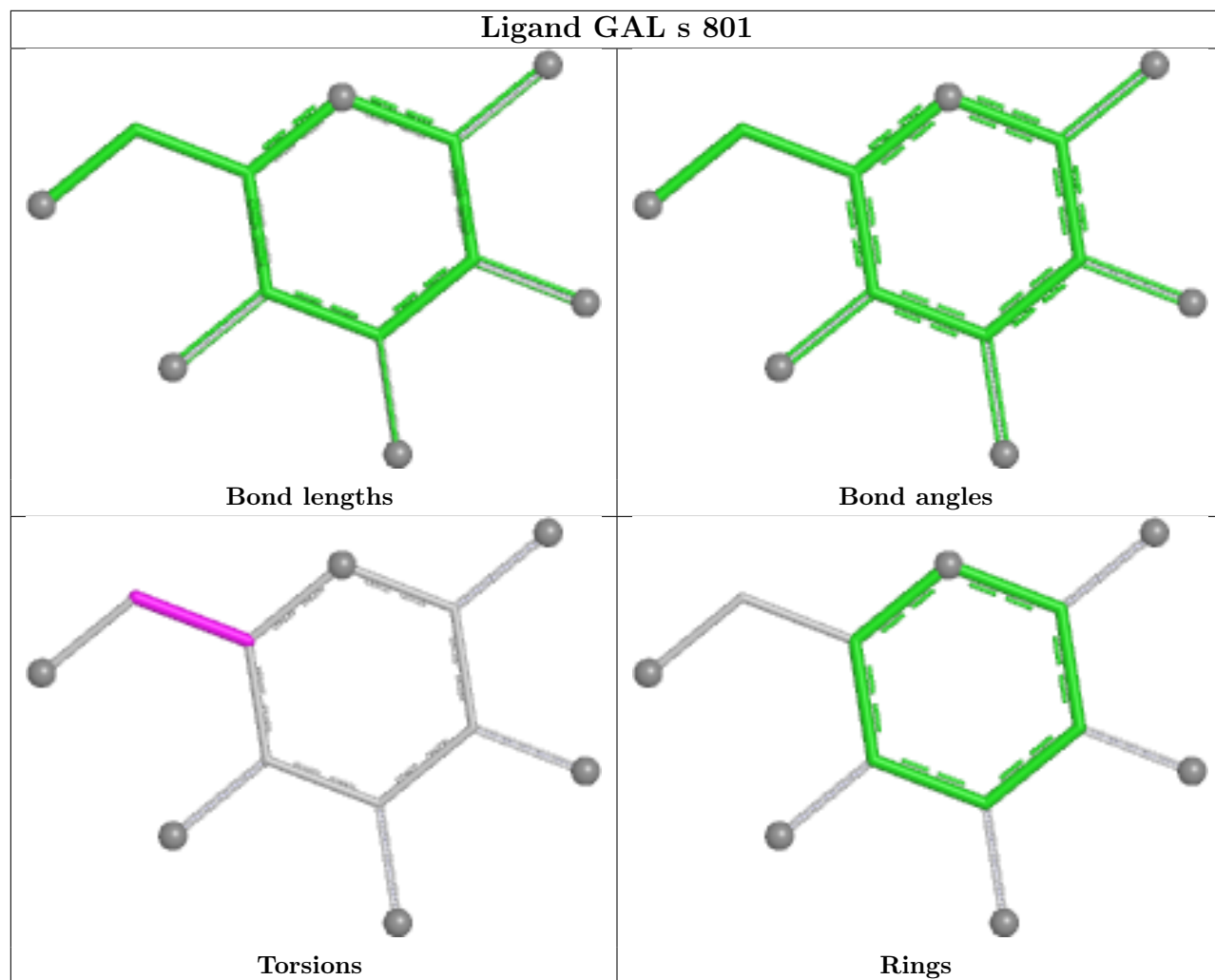


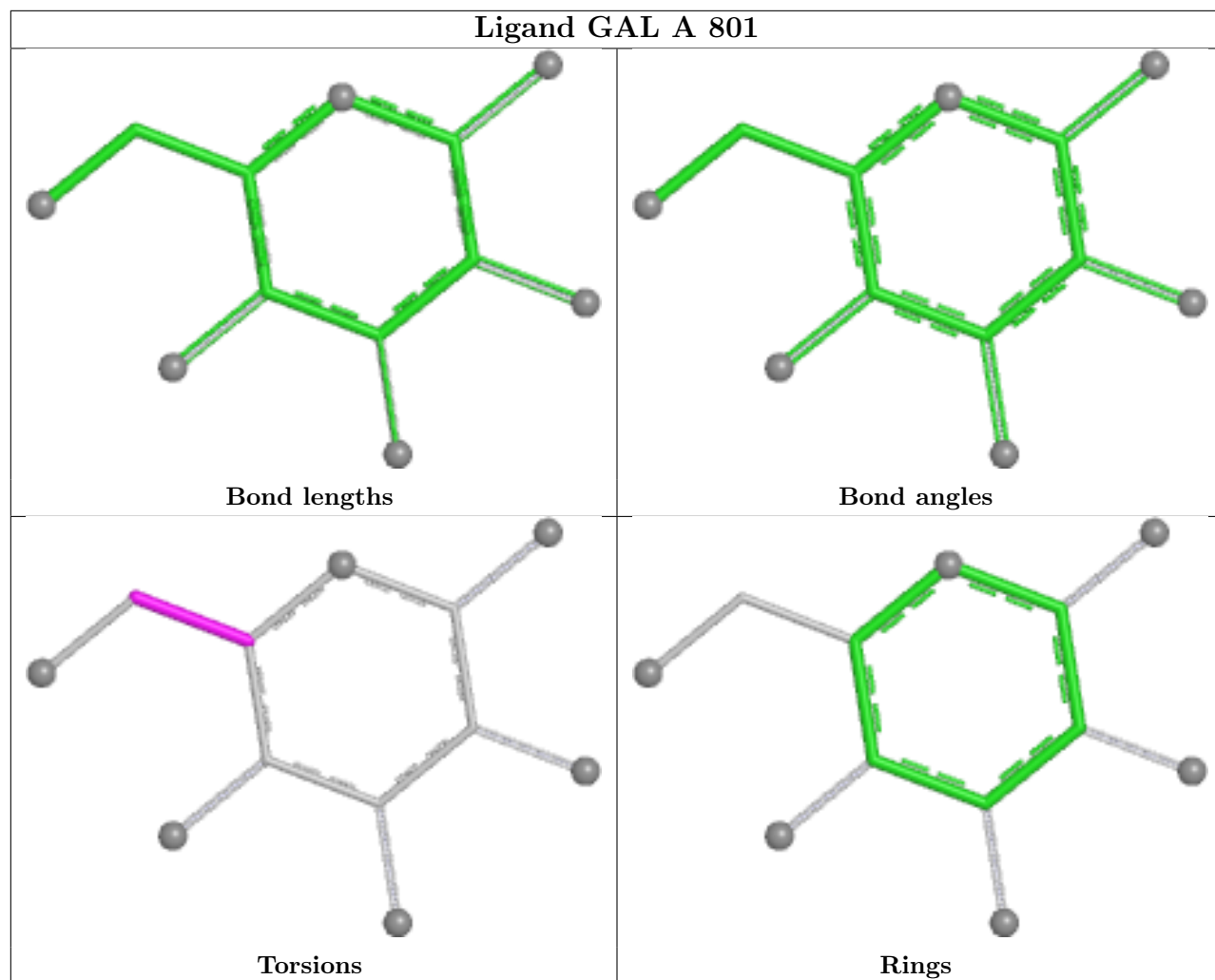


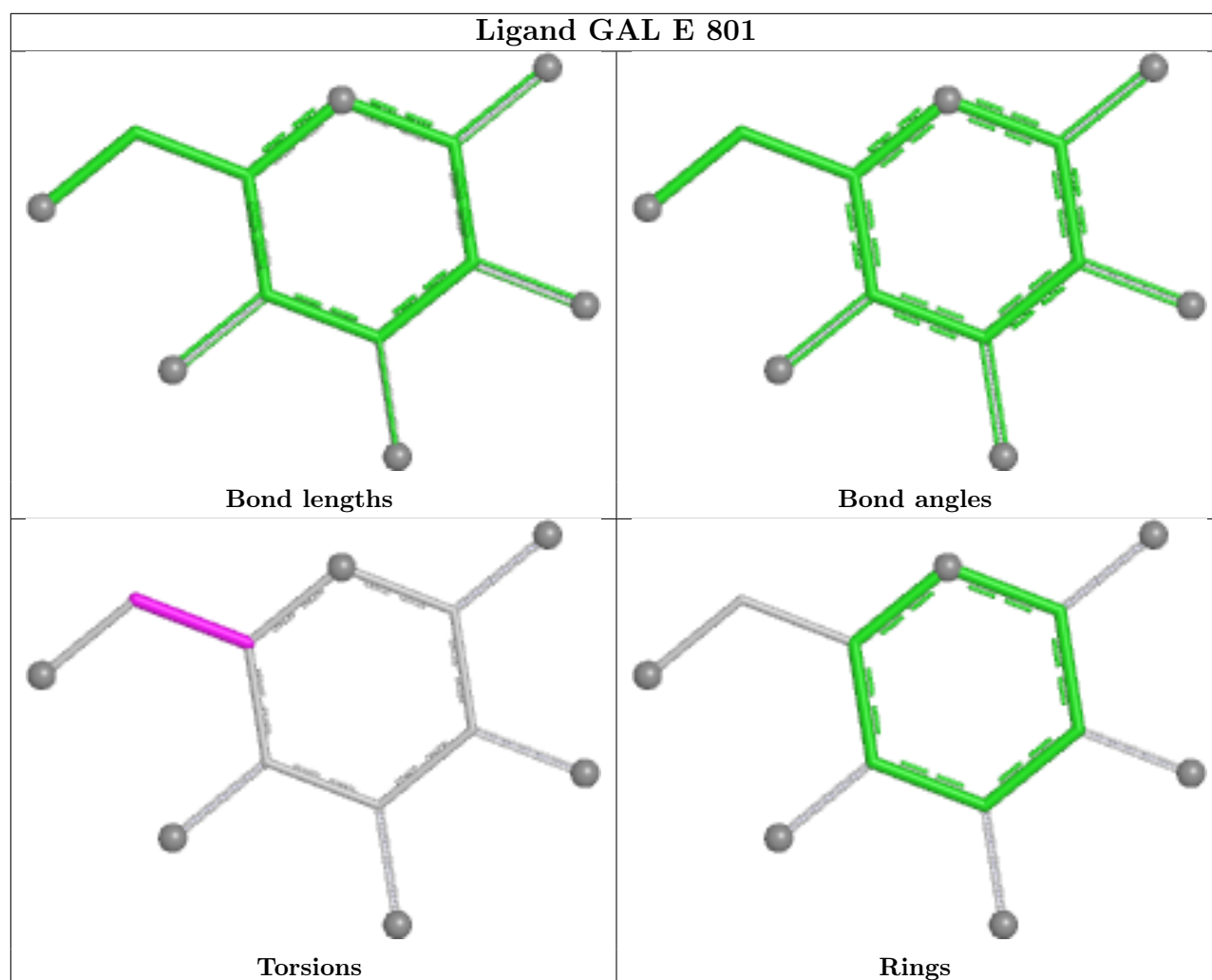












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.



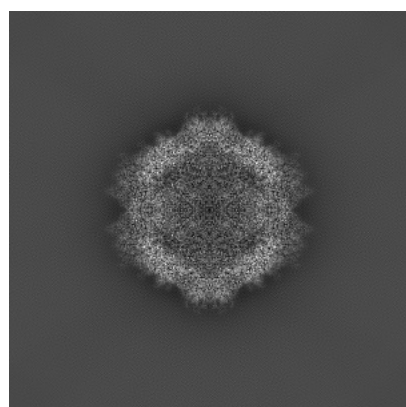
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-24000. These allow visual inspection of the internal detail of the map and identification of artifacts.

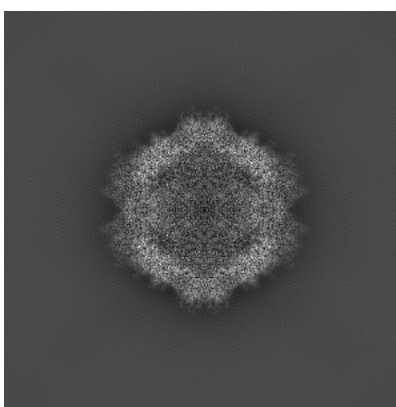
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

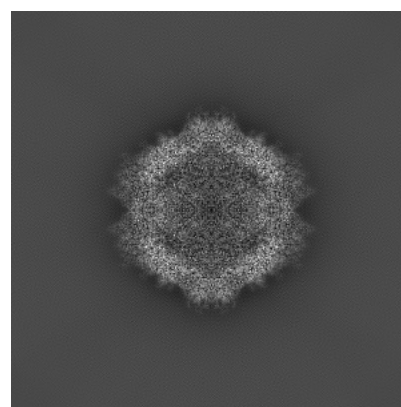
#### 6.1.1 Primary map



X



Y

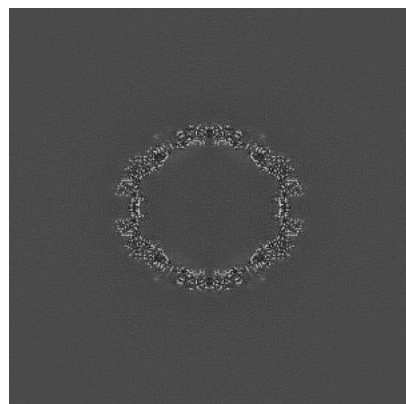


Z

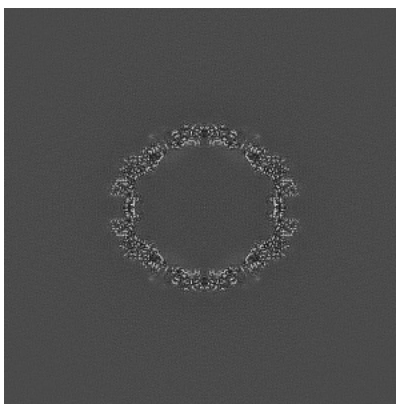
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

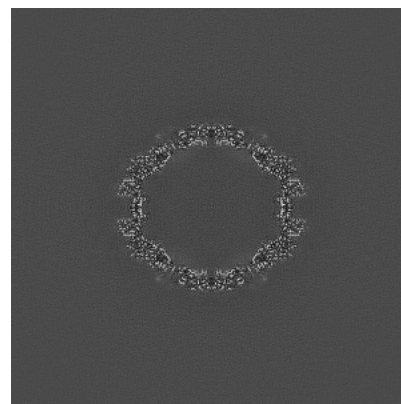
#### 6.2.1 Primary map



X Index: 260



Y Index: 260

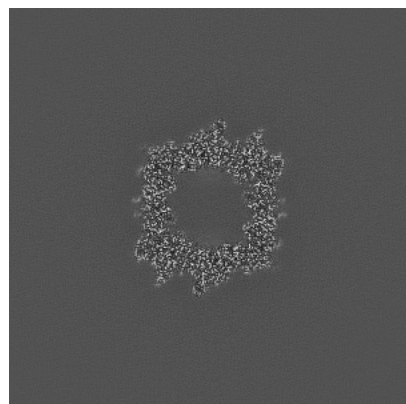


Z Index: 260

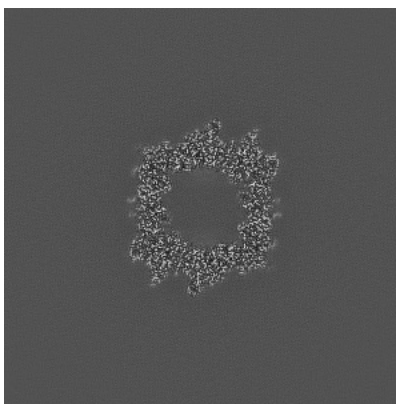
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

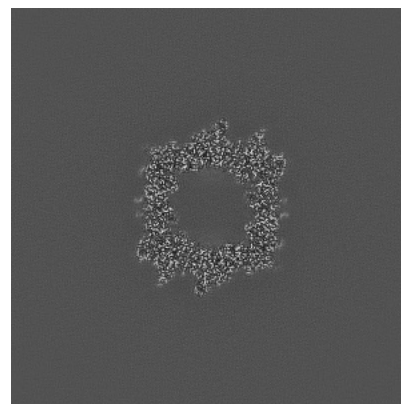
### 6.3.1 Primary map



X Index: 323



Y Index: 323

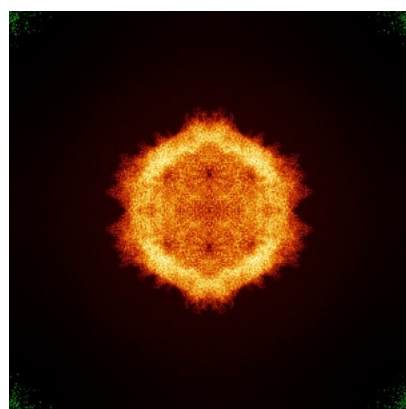


Z Index: 323

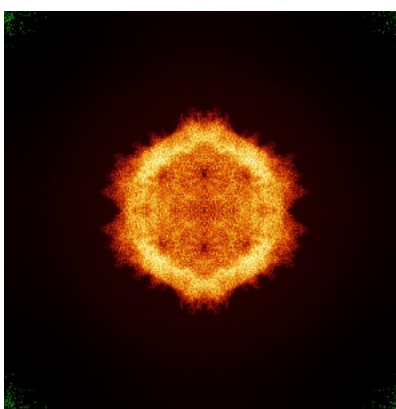
The images above show the largest variance slices of the map in three orthogonal directions.

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

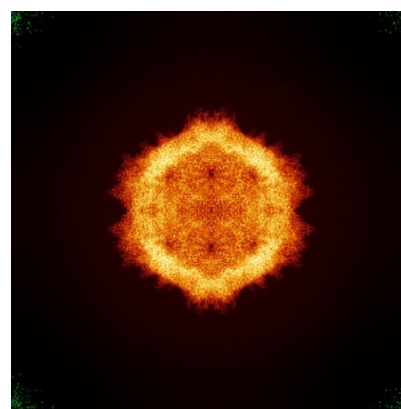
### 6.4.1 Primary map



X



Y

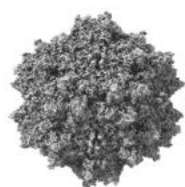


Z

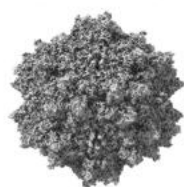
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

## 6.5 Orthogonal surface views [i](#)

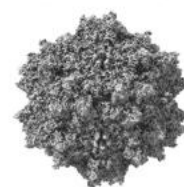
### 6.5.1 Primary map



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.

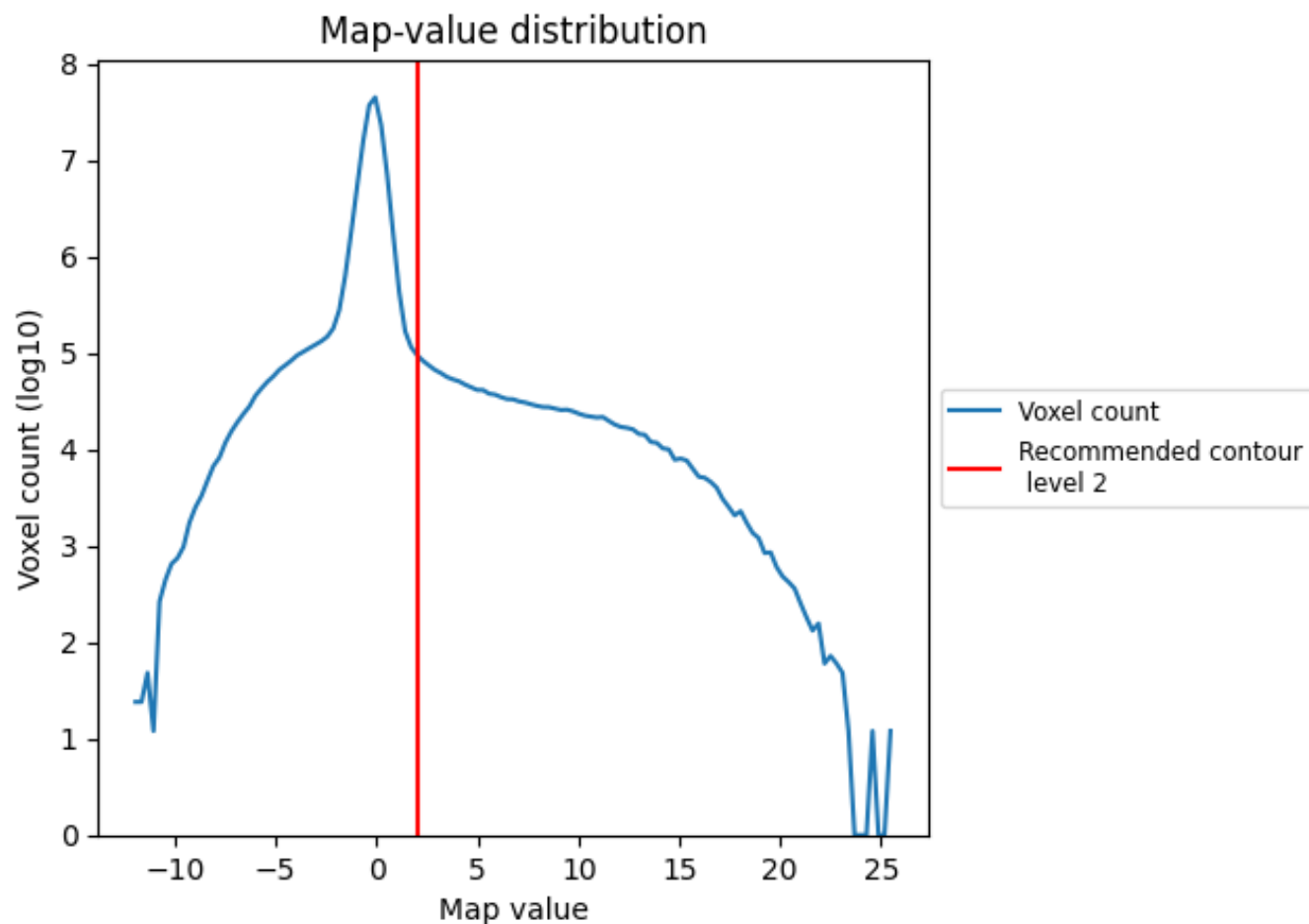
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

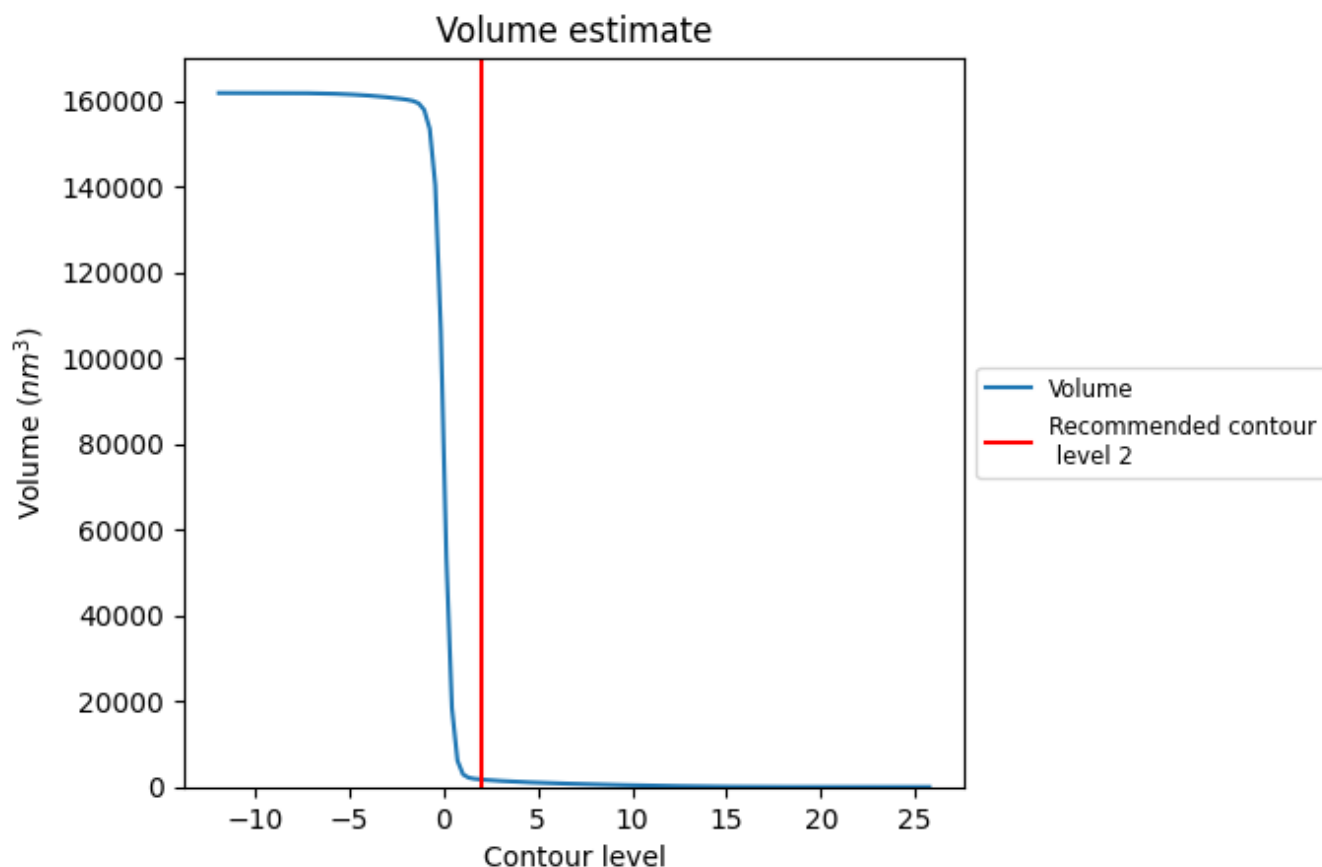
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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

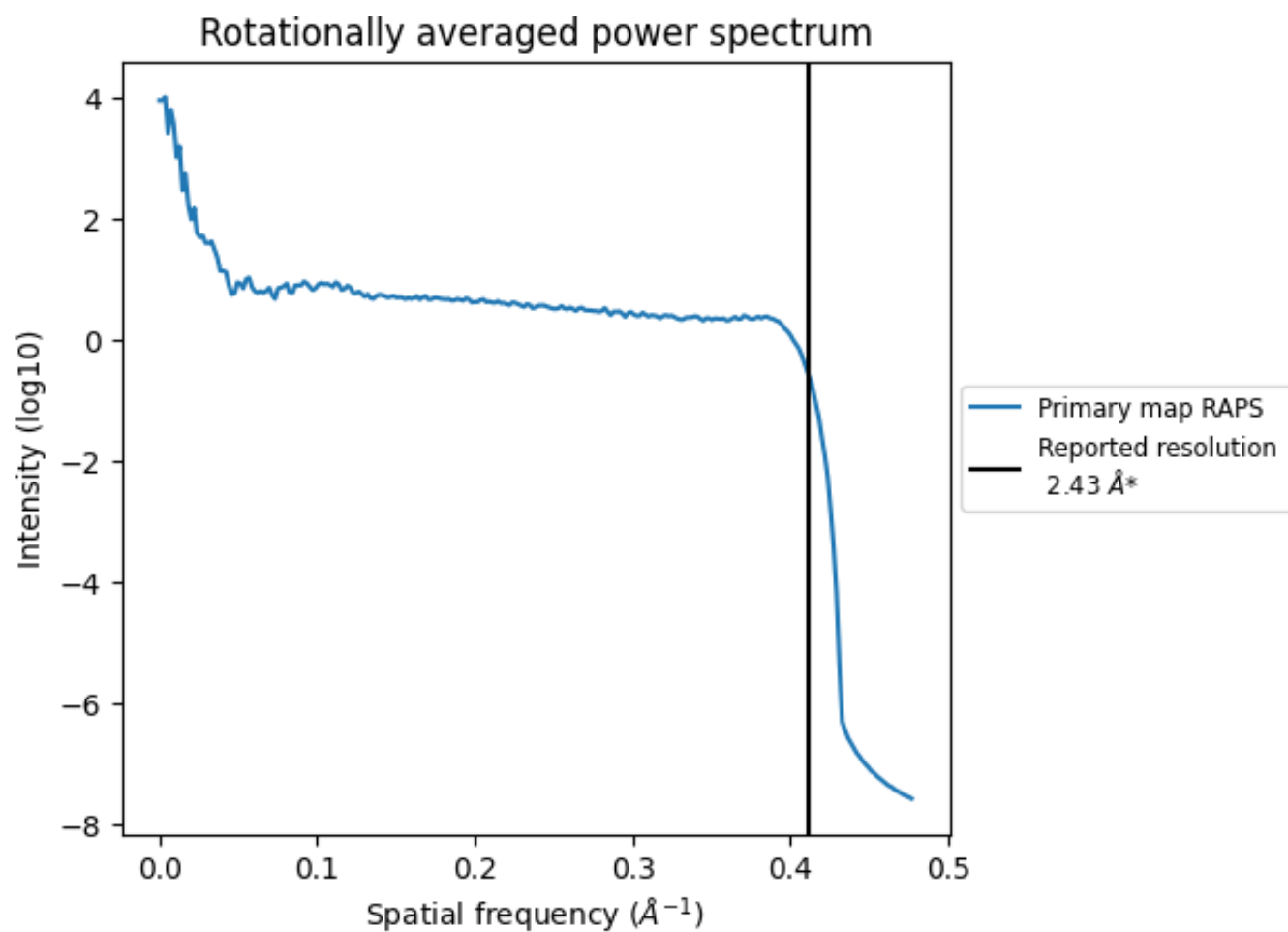
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1732  $\text{nm}^3$ ; this corresponds to an approximate mass of 1564 kDa.

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

### 7.3 Rotationally averaged power spectrum ⓘ



\*Reported resolution corresponds to spatial frequency of 0.412 Å<sup>-1</sup>

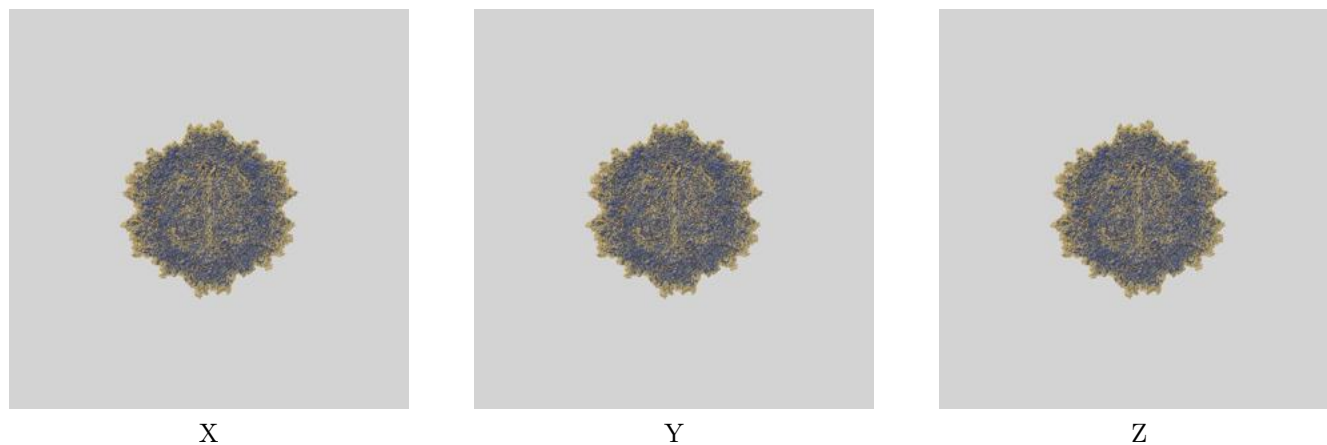
## 8 Fourier-Shell correlation

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

## 9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-24000 and PDB model 7MTZ. Per-residue inclusion information can be found in [section 3](#) on [page 13](#).

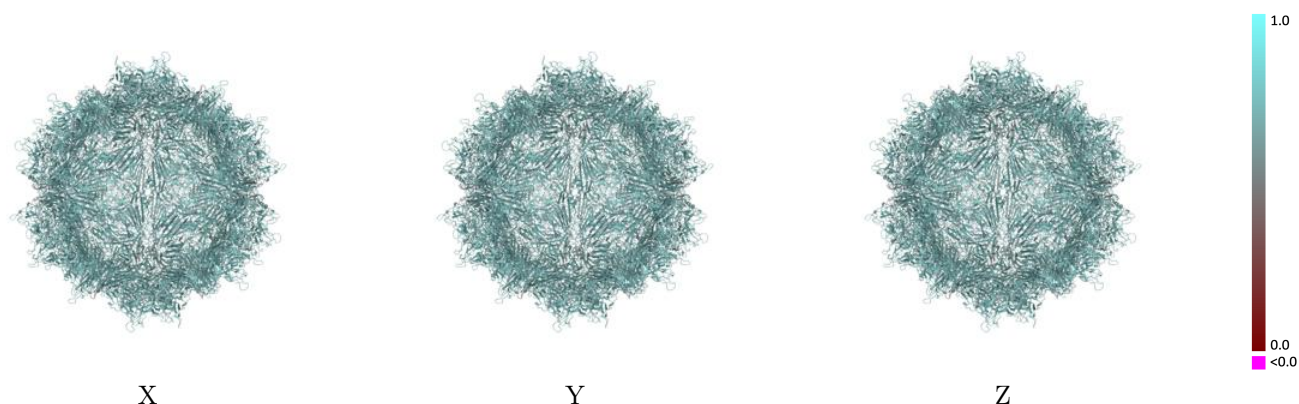
### 9.1 Map-model overlay [i](#)



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

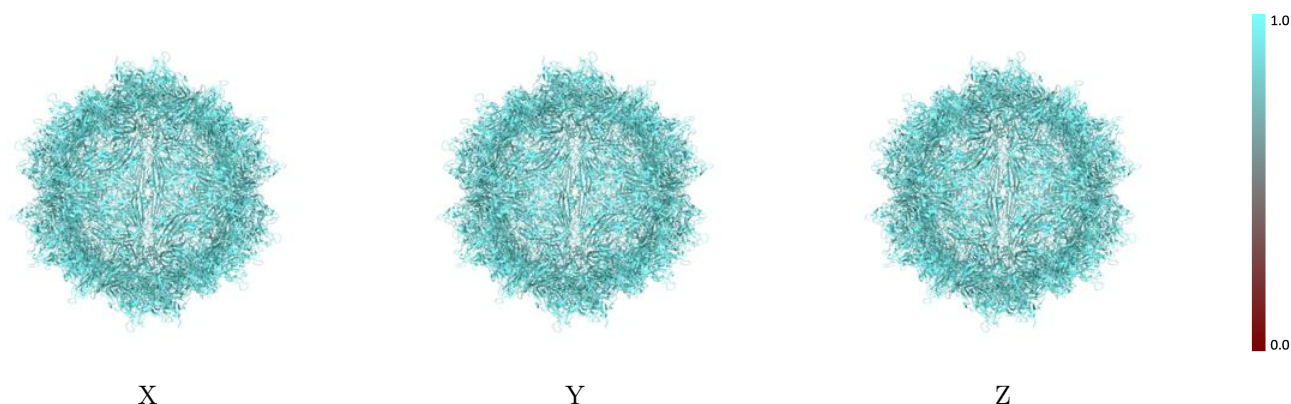


## 9.2 Q-score mapped to coordinate model [i](#)



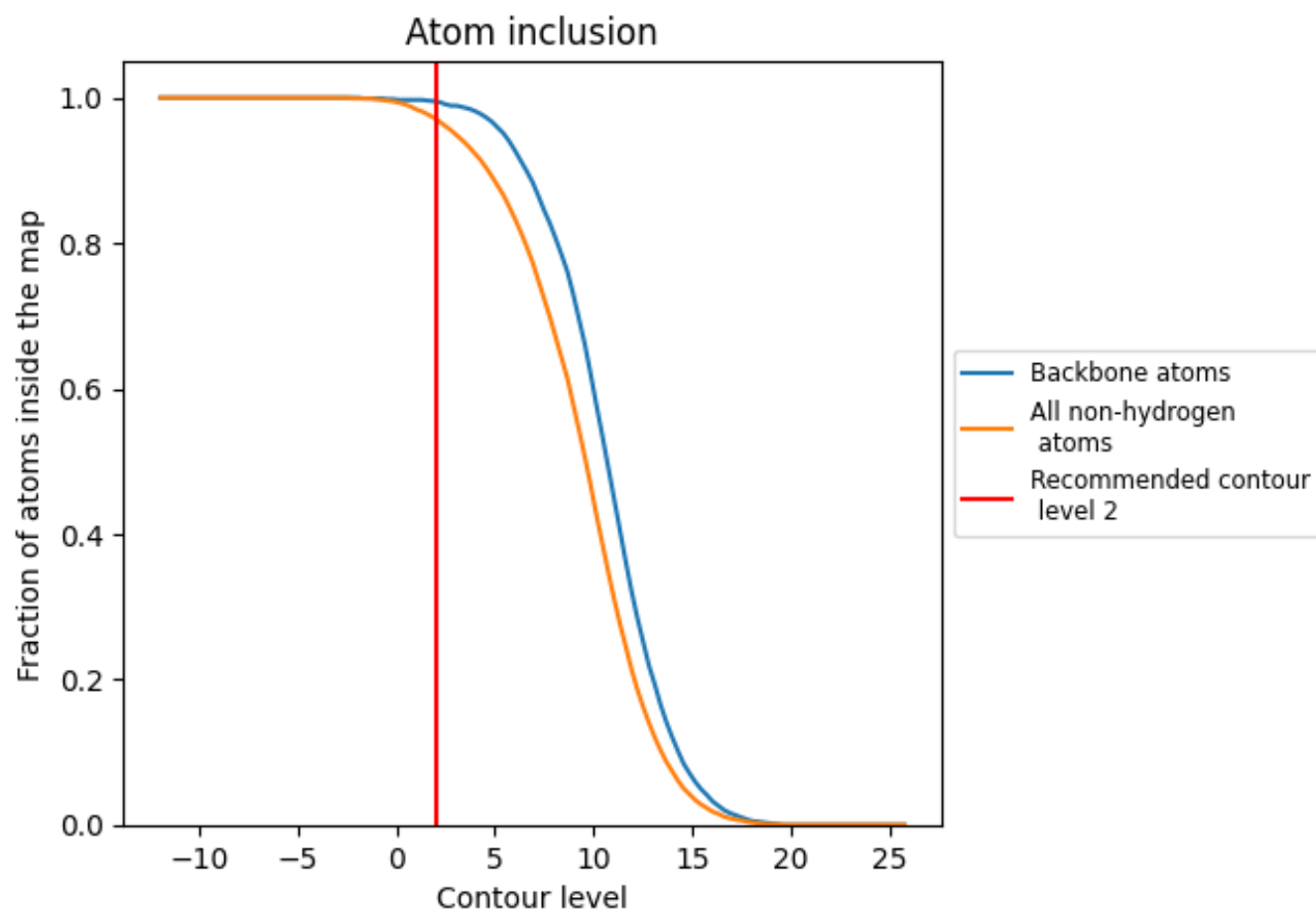
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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







































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 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	 0.9710	 0.6870
1	 0.9700	 0.6860
2	 0.9700	 0.6870
3	 0.9700	 0.6860
4	 0.9700	 0.6870
5	 0.9700	 0.6860
6	 0.9700	 0.6870
7	 0.9710	 0.6860
8	 0.9710	 0.6870
A	 0.9700	 0.6860
B	 0.9710	 0.6880
C	 0.9710	 0.6870
D	 0.9710	 0.6860
E	 0.9710	 0.6870
F	 0.9700	 0.6870
G	 0.9710	 0.6870
H	 0.9710	 0.6860
I	 0.9710	 0.6860
J	 0.9710	 0.6870
K	 0.9710	 0.6860
L	 0.9710	 0.6870
M	 0.9710	 0.6880
N	 0.9710	 0.6860
O	 0.9710	 0.6880
P	 0.9710	 0.6860
Q	 0.9710	 0.6870
R	 0.9710	 0.6870
S	 0.9710	 0.6870
T	 0.9710	 0.6870
U	 0.9710	 0.6870
V	 0.9710	 0.6870
W	 0.9710	 0.6860
X	 0.9710	 0.6860
Y	 0.9710	 0.6860
Z	 0.9710	 0.6870



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Chain	Atom inclusion	Q-score
a	 0.9710	 0.6860
b	 0.9710	 0.6870
c	 0.9710	 0.6870
d	 0.9710	 0.6860
e	 0.9710	 0.6850
f	 0.9710	 0.6880
g	 0.9710	 0.6870
h	 0.9700	 0.6870
i	 0.9710	 0.6870
j	 0.9710	 0.6870
k	 0.9710	 0.6870
l	 0.9710	 0.6870
m	 0.9710	 0.6870
n	 0.9710	 0.6870
o	 0.9710	 0.6870
p	 0.9700	 0.6860
q	 0.9710	 0.6870
r	 0.9710	 0.6870
s	 0.9700	 0.6870
t	 0.9710	 0.6870
u	 0.9710	 0.6880
v	 0.9710	 0.6870
w	 0.9700	 0.6860
x	 0.9710	 0.6860
y	 0.9710	 0.6850
z	 0.9710	 0.6860