Full wwPDB EM Validation Report ⓘ

May 6, 2025 – 02:32 AM EDT

PDB ID	:	7L5U / pdb_0000l5u
EMDB ID	:	EMD-23190
Title	:	The full AAV7 capsid
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2020-12-22
Resolution	:	3.16 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

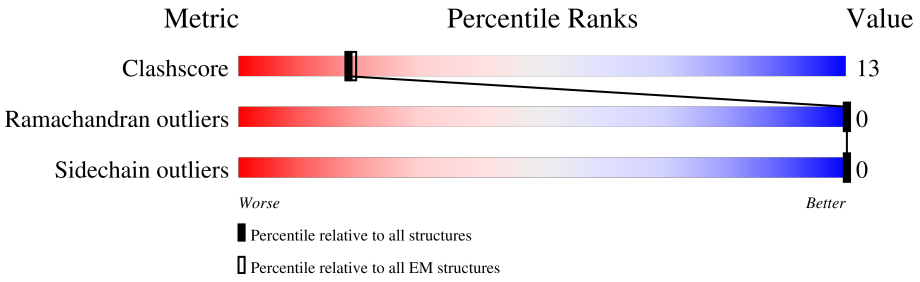
EMDB validation analysis	:	0.0.1.dev118
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0rc1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.16 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 >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	520	71% 29%
1	2	520	71% 29%
1	3	520	70% 30%
1	4	520	70% 30%
1	5	520	71% 29%
1	6	520	71% 29%
1	7	520	71% 29%
1	8	520	70% 30%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	A	520	71% 29%
1	B	520	70% 30%
1	C	520	71% 29%
1	D	520	70% 30%
1	E	520	71% 29%
1	F	520	71% 29%
1	G	520	70% 30%
1	H	520	70% 30%
1	I	520	70% 30%
1	J	520	71% 29%
1	K	520	71% 29%
1	L	520	70% 30%
1	M	520	71% 29%
1	N	520	71% 29%
1	O	520	70% 30%
1	P	520	70% 30%
1	Q	520	70% 30%
1	R	520	71% 29%
1	S	520	70% 30%
1	T	520	71% 29%
1	U	520	71% 29%
1	V	520	70% 30%
1	W	520	71% 29%
1	X	520	71% 29%
1	Y	520	71% 29%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	Z	520	70% 30%
1	a	520	70% 30%
1	b	520	71% 29%
1	c	520	70% 30%
1	d	520	70% 30%
1	e	520	70% 30%
1	f	520	71% 29%
1	g	520	71% 29%
1	h	520	71% 29%
1	i	520	71% 29%
1	j	520	71% 29%
1	k	520	71% 29%
1	l	520	71% 29%
1	m	520	70% 30%
1	n	520	70% 30%
1	o	520	71% 29%
1	p	520	70% 30%
1	q	520	71% 29%
1	r	520	70% 30%
1	s	520	71% 29%
1	t	520	71% 29%
1	u	520	70% 30%
1	v	520	70% 30%
1	w	520	70% 30%
1	x	520	70% 30%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	y	520	71% 29%
1	z	520	70% 30%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 250020 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	B	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	C	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	D	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	E	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	F	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	G	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	H	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	I	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	J	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	K	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	L	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	M	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	N	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	O	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	P	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	Q	520	Total 4145	C 2624	N 719	O 789	S 13	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	S	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	T	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	U	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	V	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	W	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	X	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	Y	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	Z	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	a	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	b	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	c	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	d	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	e	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	f	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	g	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	h	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	i	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	j	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	k	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	l	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		

Continued on next page...

Continued from previous page...

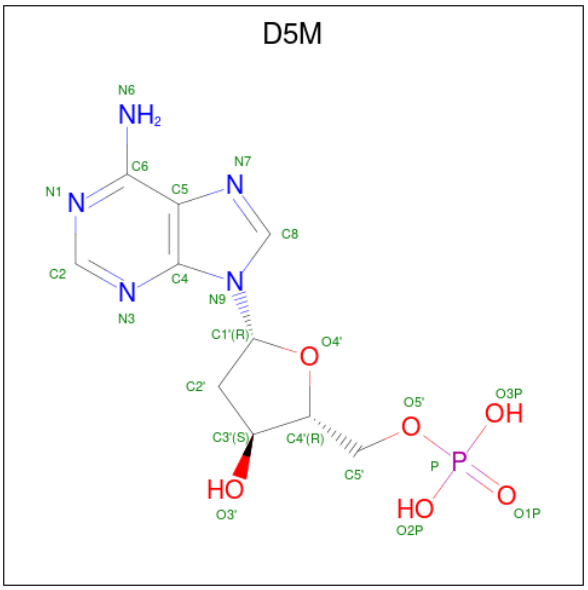
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	n	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	o	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	p	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	q	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	r	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	s	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	t	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	u	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	v	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	w	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	x	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	y	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	z	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	1	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	2	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	3	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	4	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	5	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	6	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	7	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		

- Molecule 2 is 2'-DEOXYADENOSINE-5'-MONOPHOSPHATE (CCD ID: D5M) (formula: $C_{10}H_{14}N_5O_6P$).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	B	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	C	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	D	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	E	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	F	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	G	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	H	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	I	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	J	1	Total	C	N	O	P	0
			22	10	5	6	1	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
2	K	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	L	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	M	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	N	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	O	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	P	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	Q	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	R	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	S	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	T	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	U	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	V	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	W	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	X	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	Y	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	Z	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	a	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	b	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	c	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	d	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	e	1	Total	C	N	O	P	0
			22	10	5	6	1	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
2	f	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	g	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	h	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	i	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	j	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	k	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	l	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	m	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	n	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	o	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	p	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	q	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	r	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	s	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	t	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	u	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	v	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	w	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	x	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	y	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	z	1	Total	C	N	O	P	0
			22	10	5	6	1	

Continued on next page...

Continued from previous page...

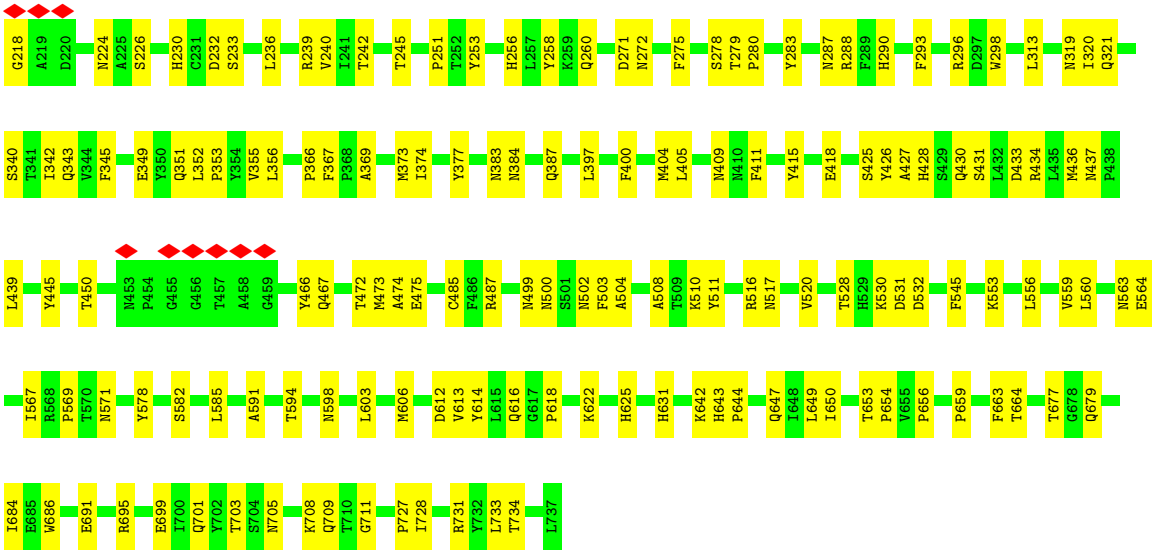
Mol	Chain	Residues	Atoms					AltConf
2	1	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	2	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	3	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	4	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	5	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	6	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	7	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	8	1	Total	C	N	O	P	0
			22	10	5	6	1	

3 Residue-property plots (i)

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

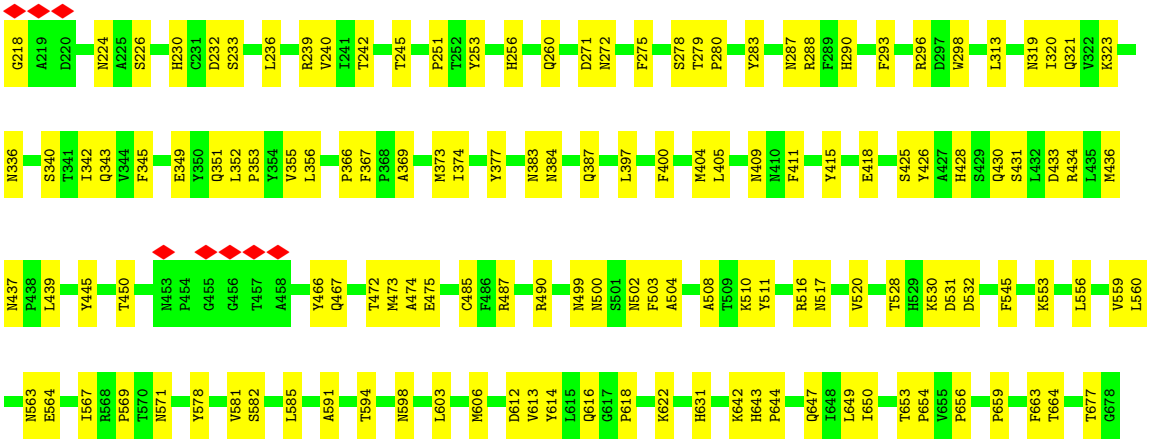
• Molecule 1: Capsid protein

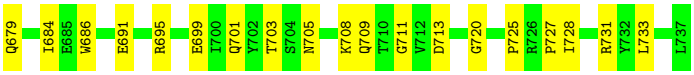
Chain A:



• Molecule 1: Capsid protein

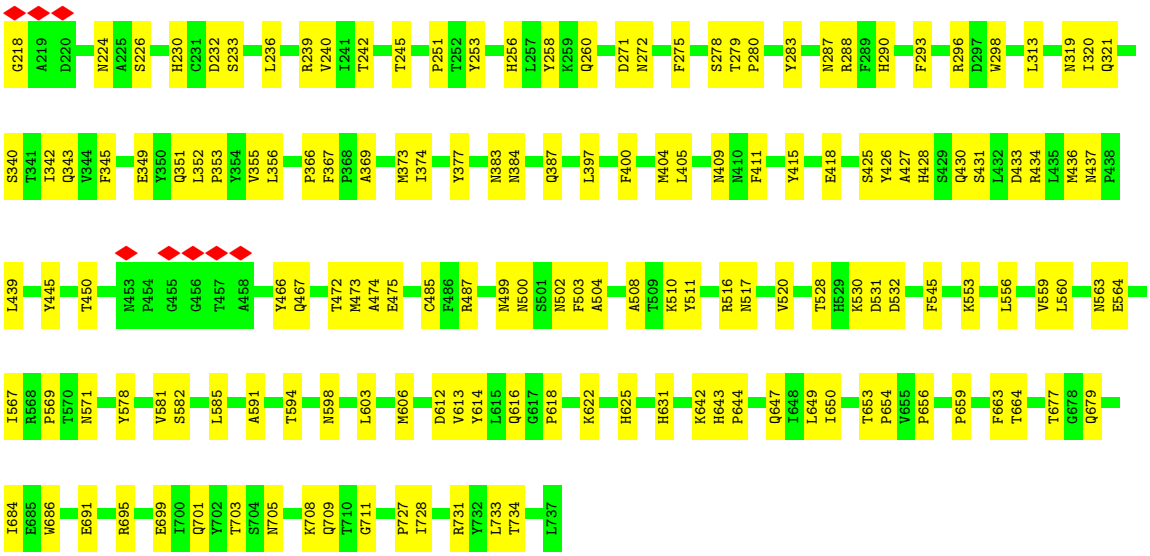
Chain B:





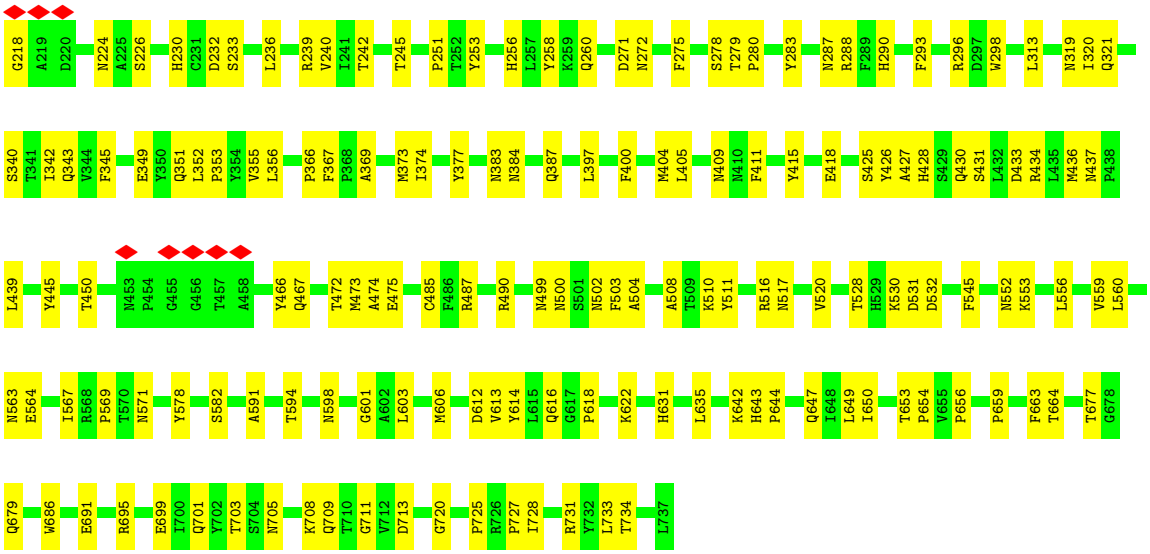
• Molecule 1: Capsid protein

Chain C:



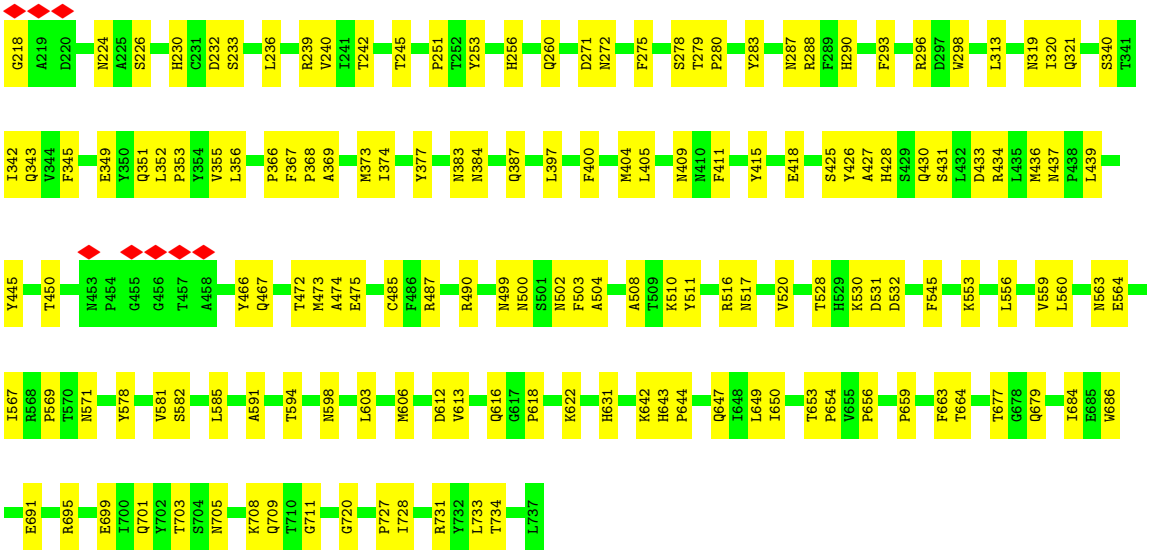
• Molecule 1: Capsid protein

Chain D:



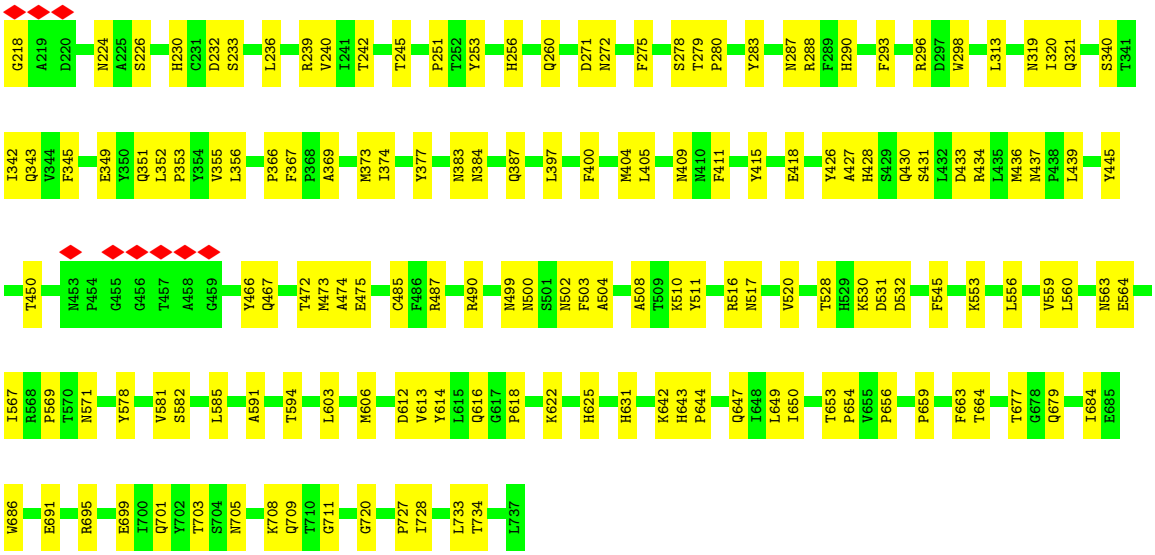
• Molecule 1: Capsid protein

Chain E:



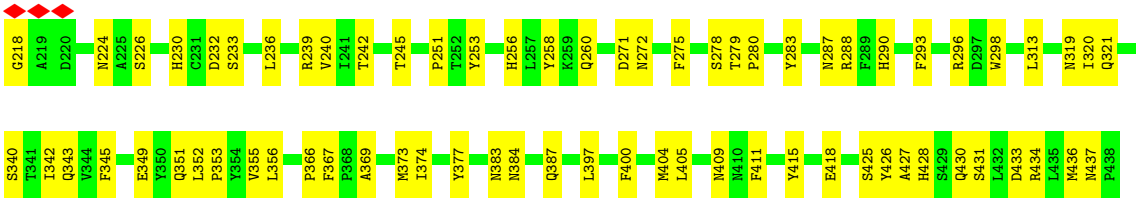
• Molecule 1: Capsid protein

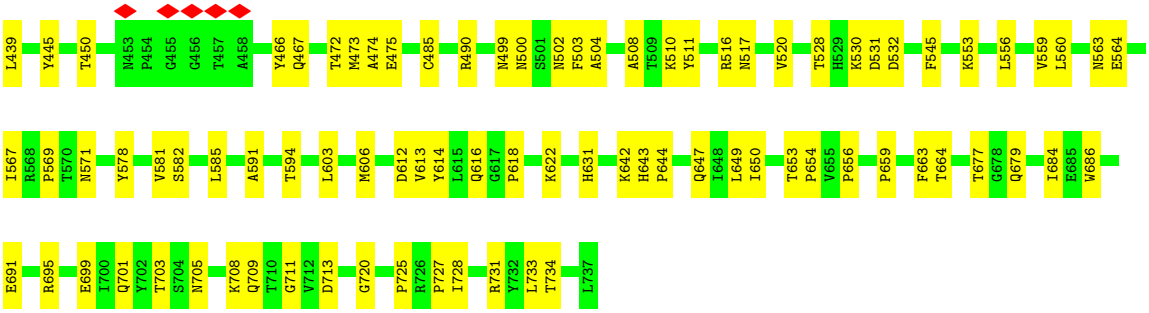
Chain F:



• Molecule 1: Capsid protein

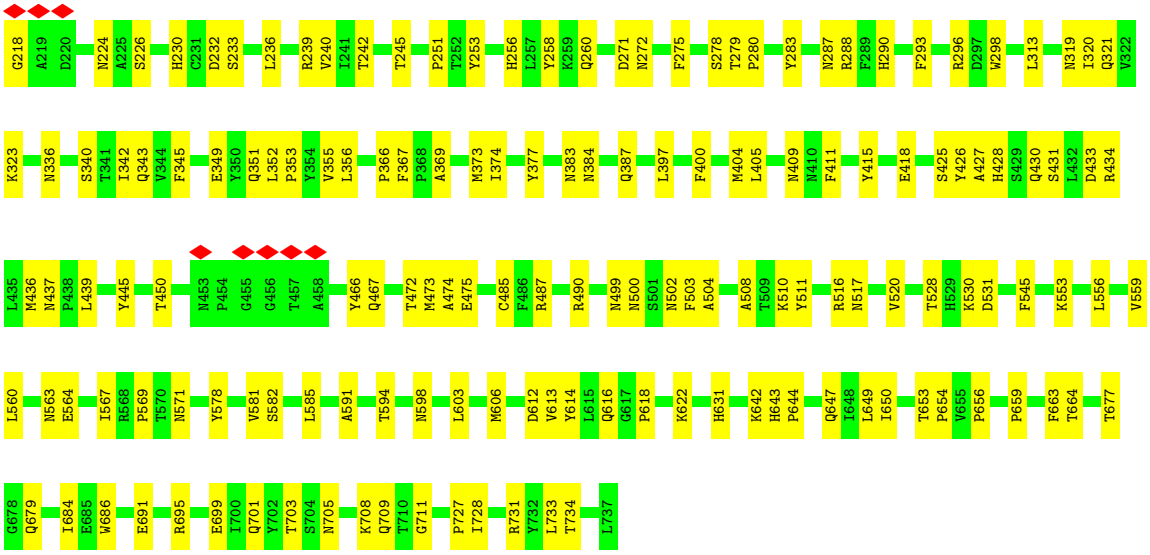
Chain G:





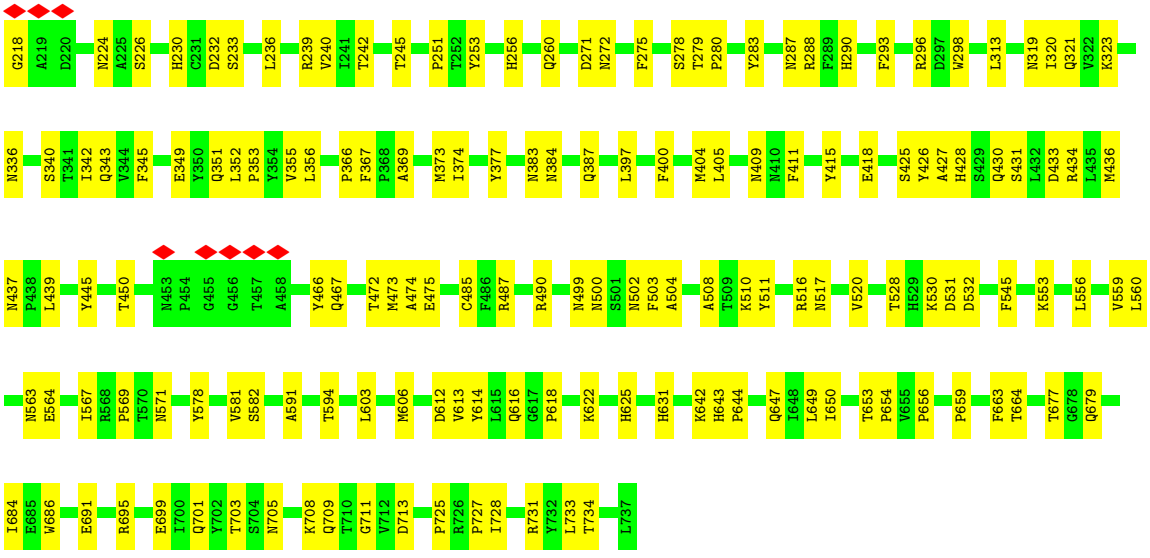
• Molecule 1: Capsid protein

Chain H:



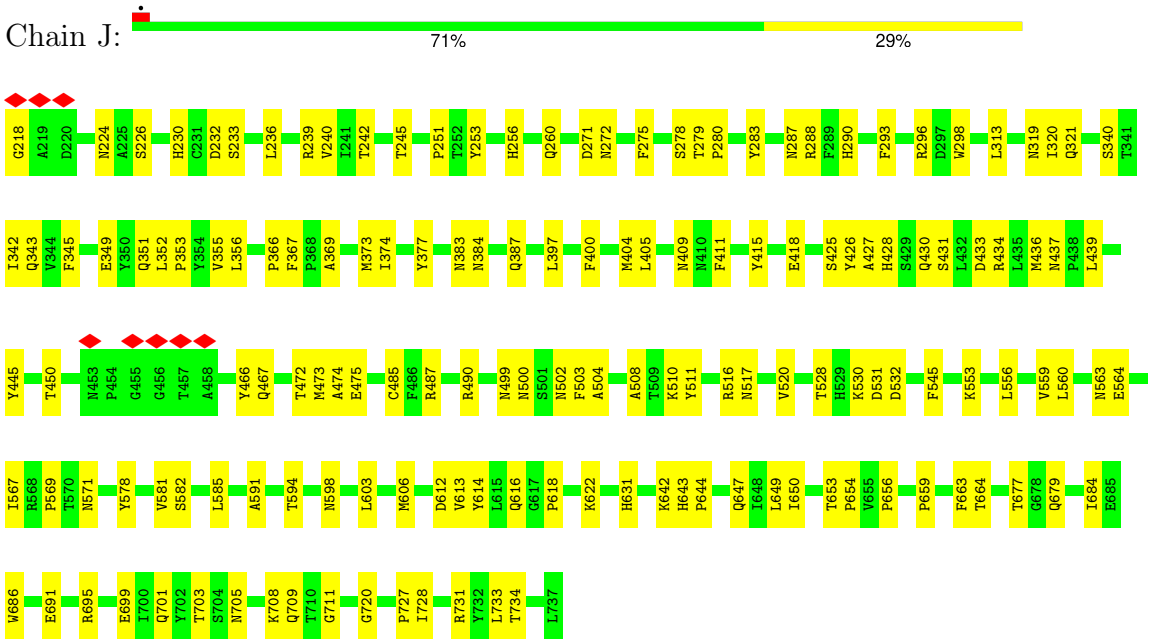
• Molecule 1: Capsid protein

Chain I:



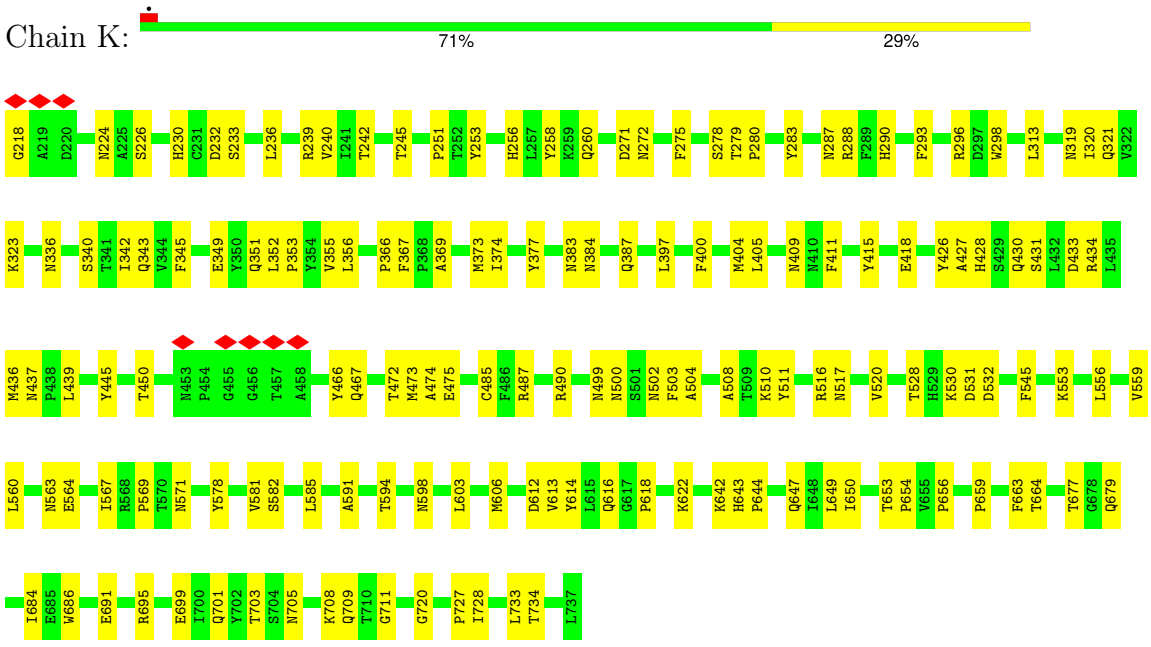
• Molecule 1: Capsid protein

Chain J:



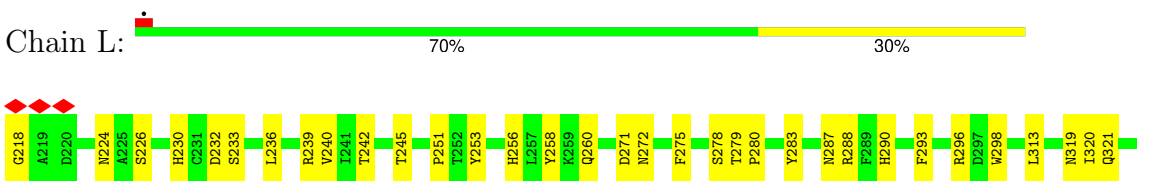
• Molecule 1: Capsid protein

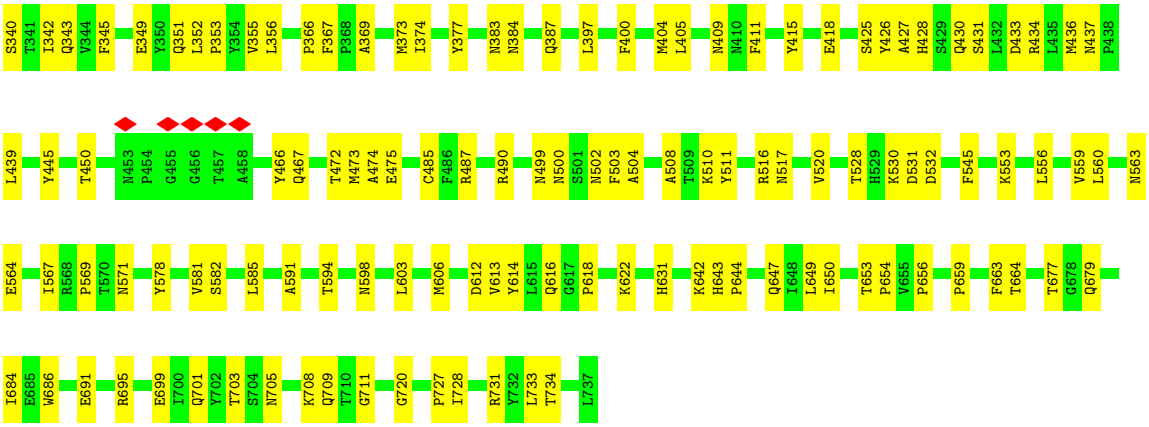
Chain K:



• Molecule 1: Capsid protein

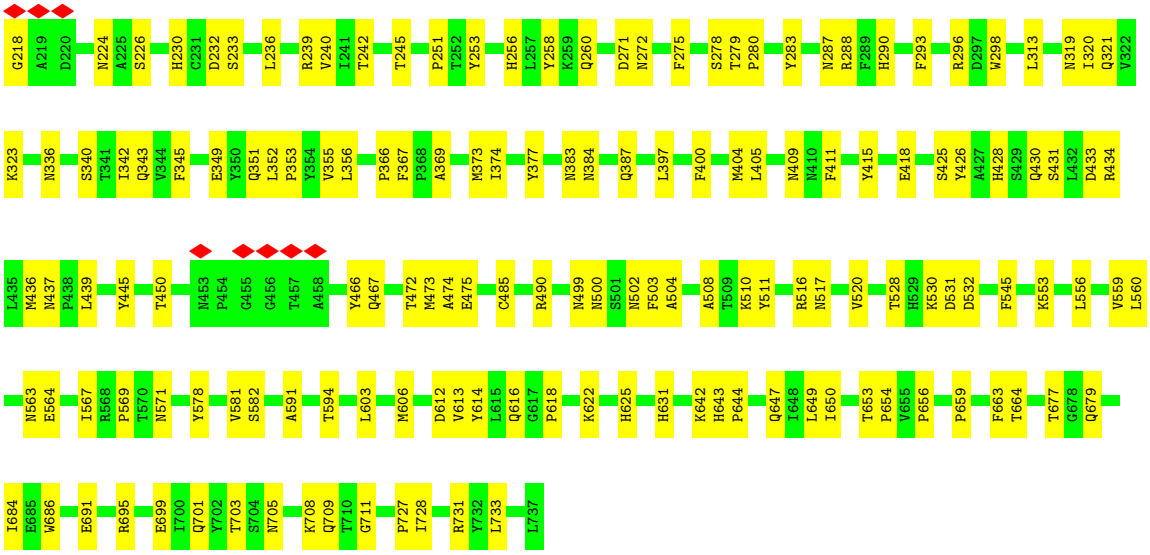
Chain L:





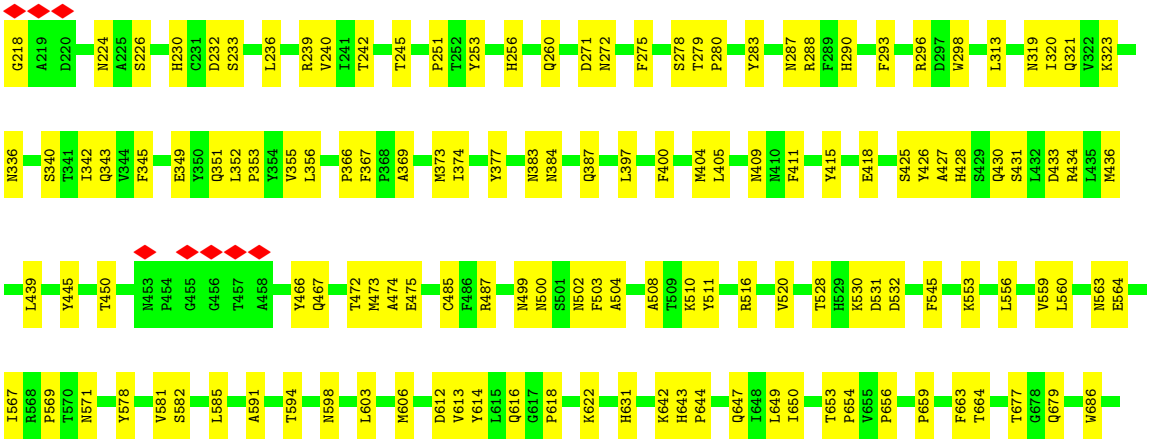
• Molecule 1: Capsid protein

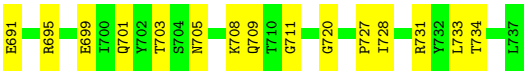
Chain M:



• Molecule 1: Capsid protein

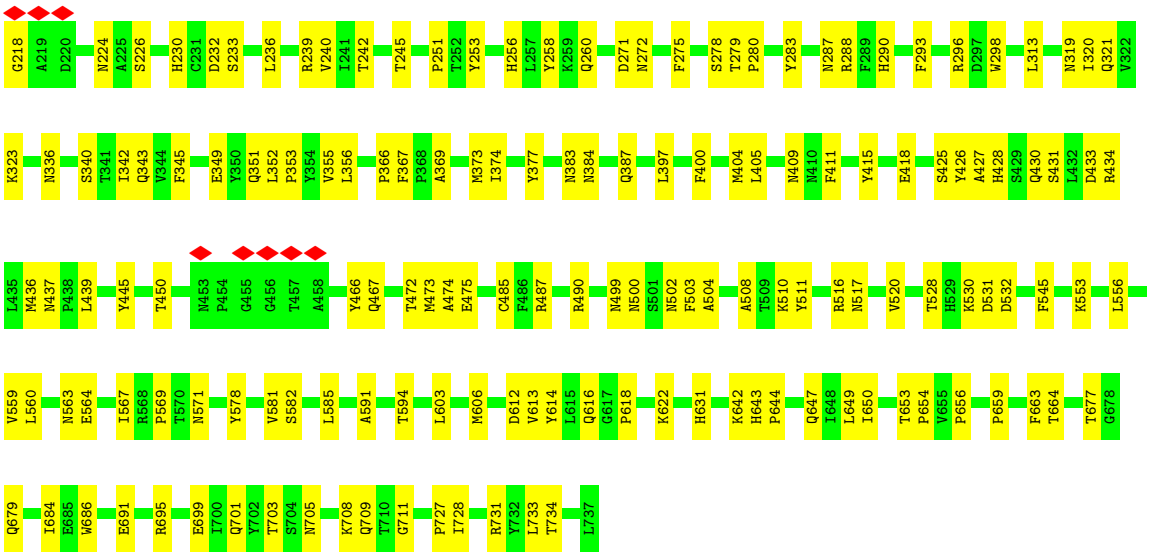
Chain N:





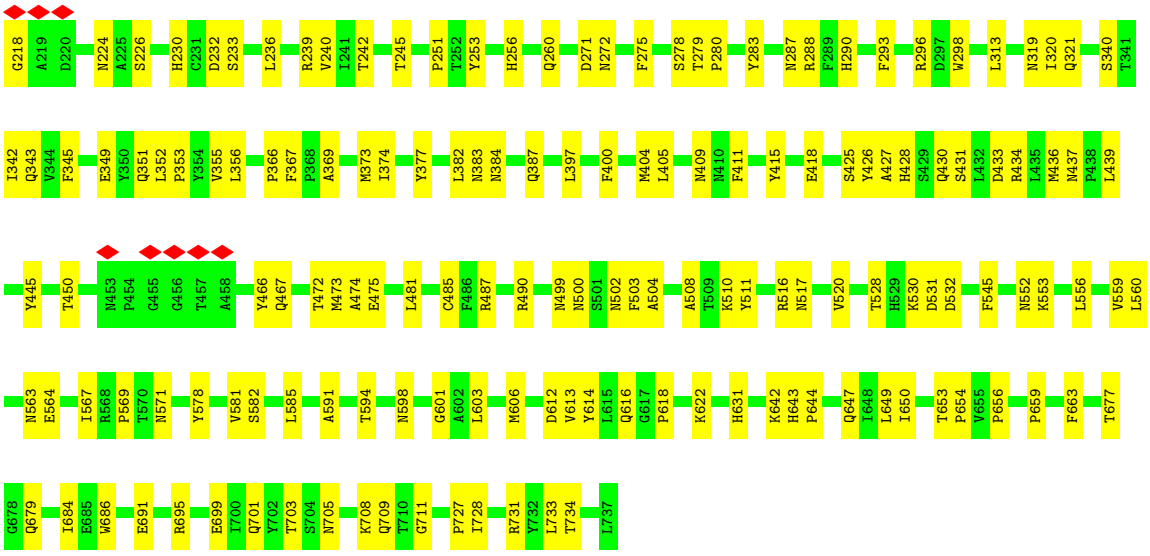
• Molecule 1: Capsid protein

Chain O:



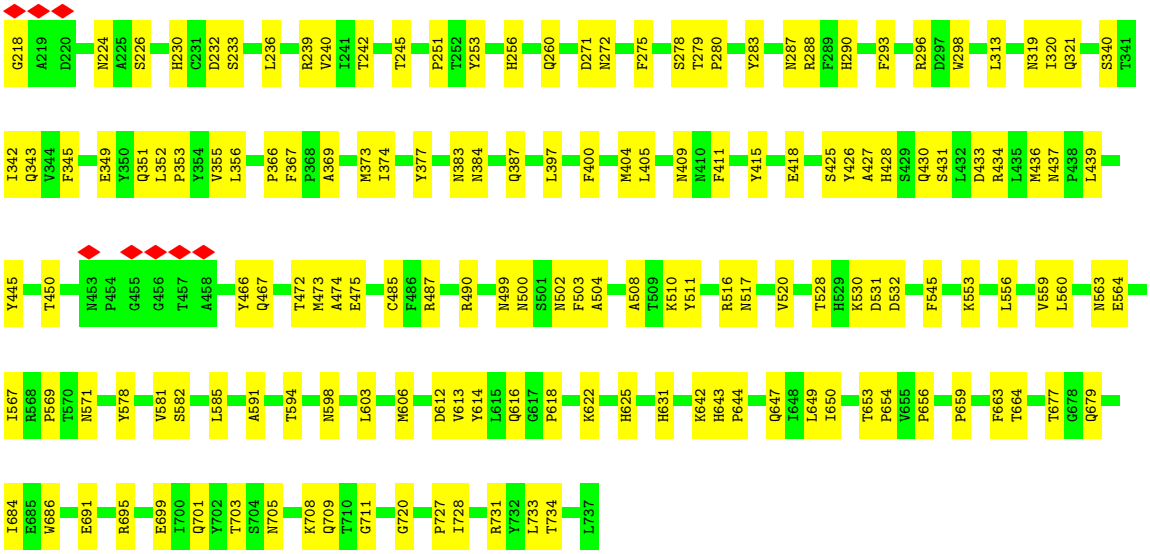
• Molecule 1: Capsid protein

Chain P:



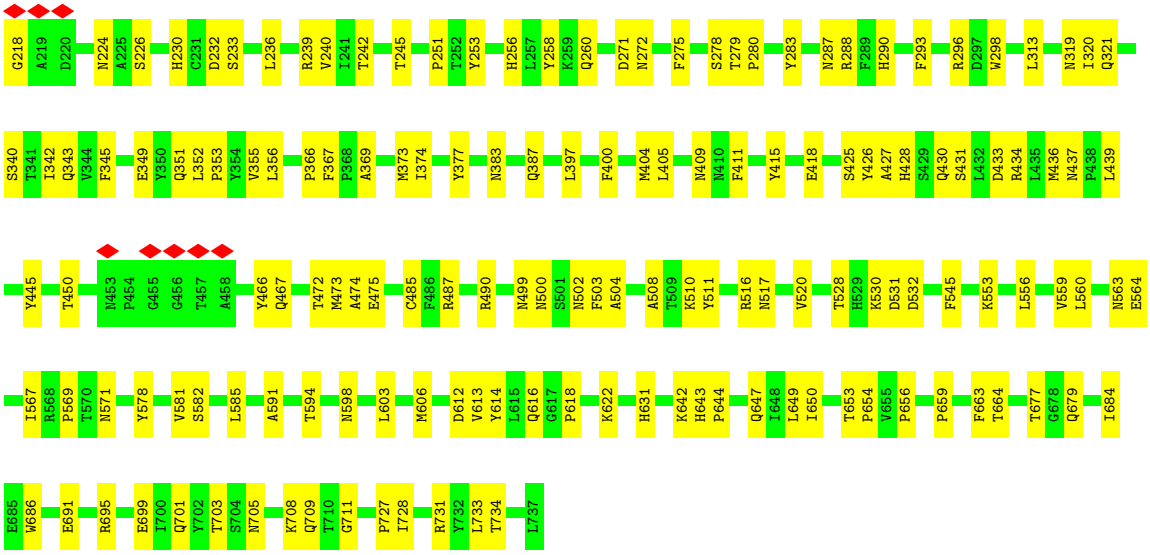
• Molecule 1: Capsid protein

Chain Q:



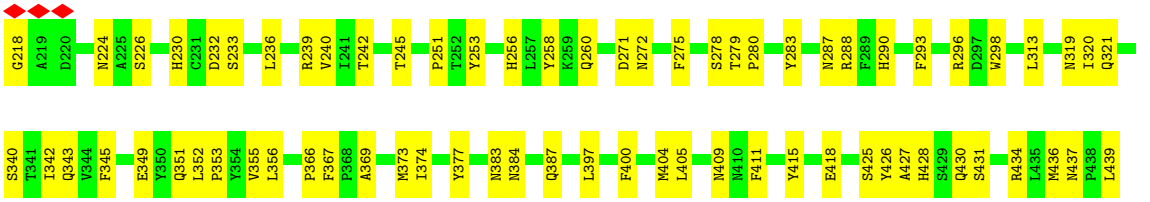
• Molecule 1: Capsid protein

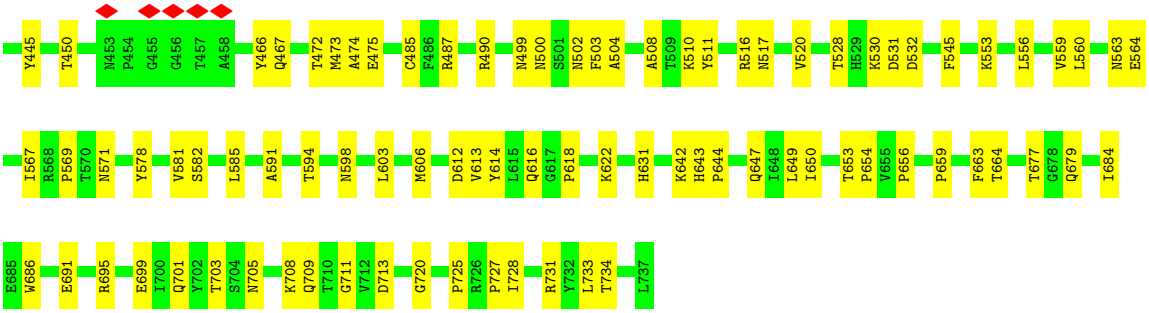
Chain R:



• Molecule 1: Capsid protein

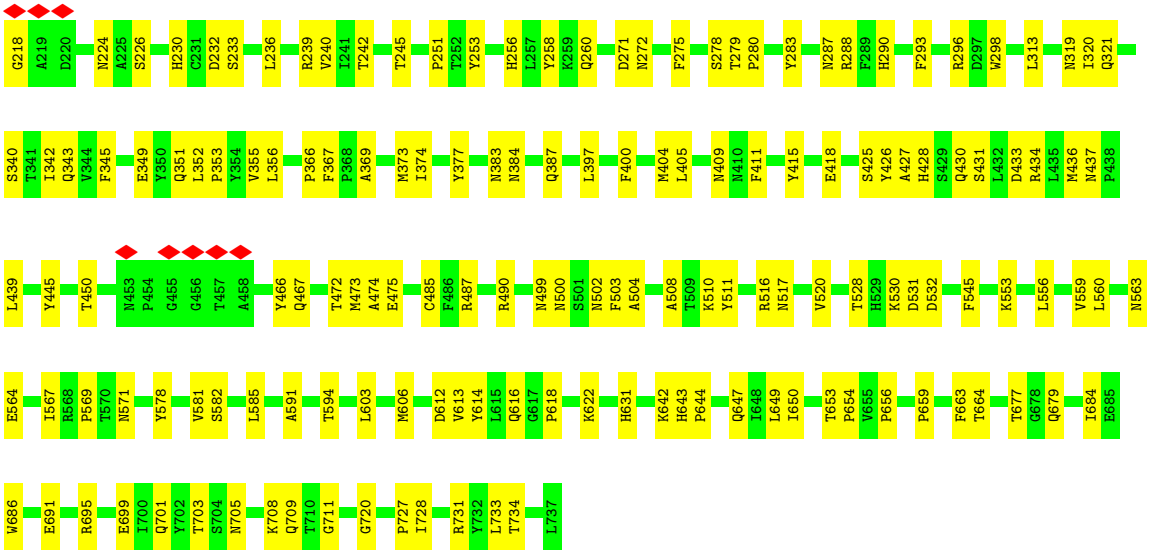
Chain S:





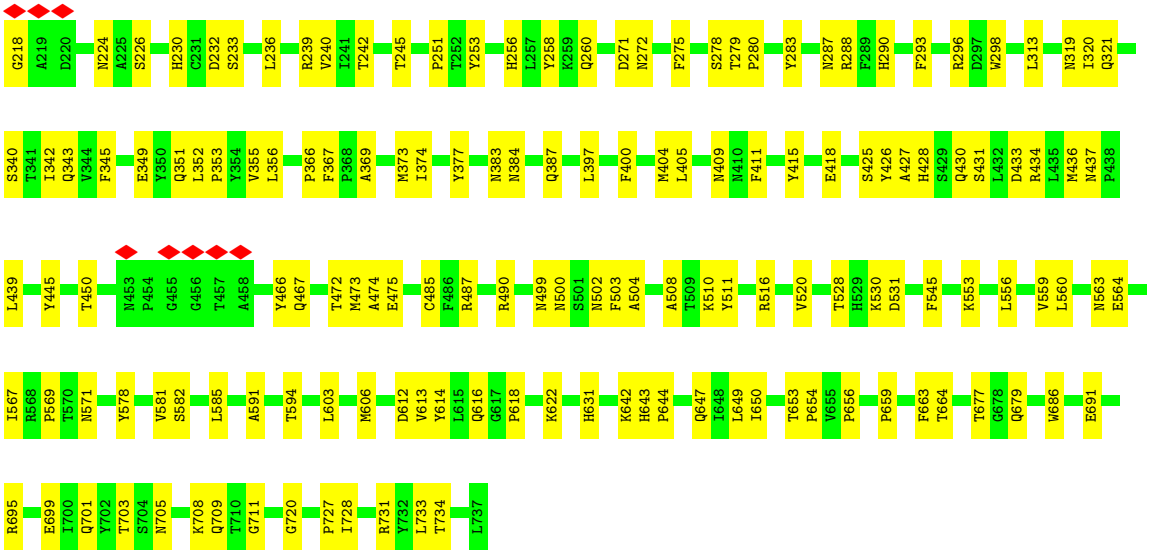
• Molecule 1: Capsid protein

Chain T:



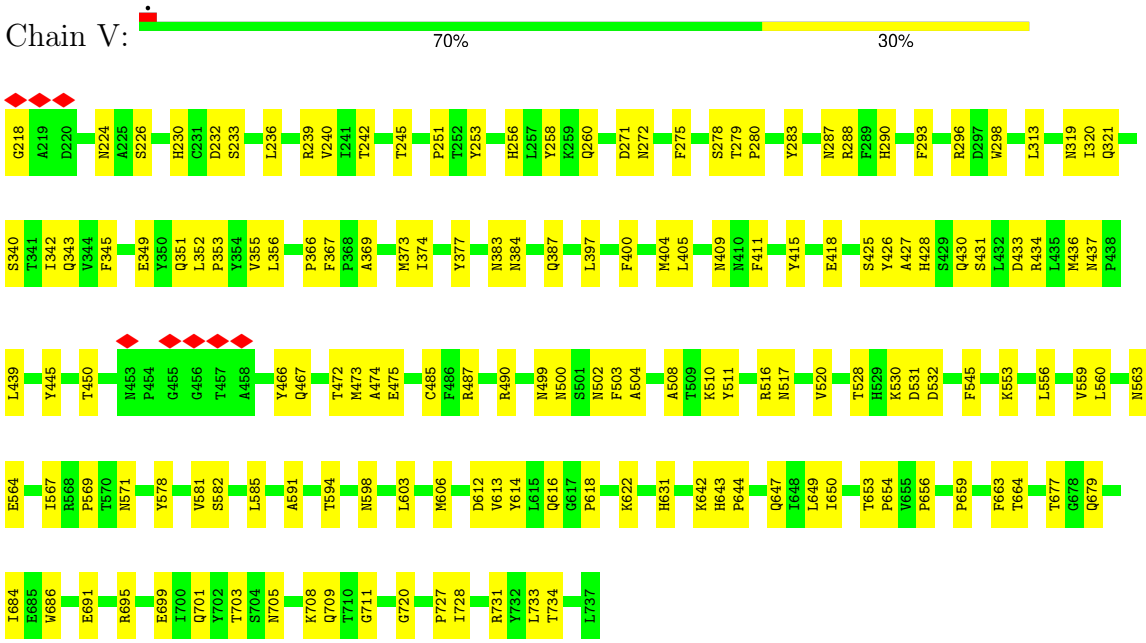
• Molecule 1: Capsid protein

Chain U:



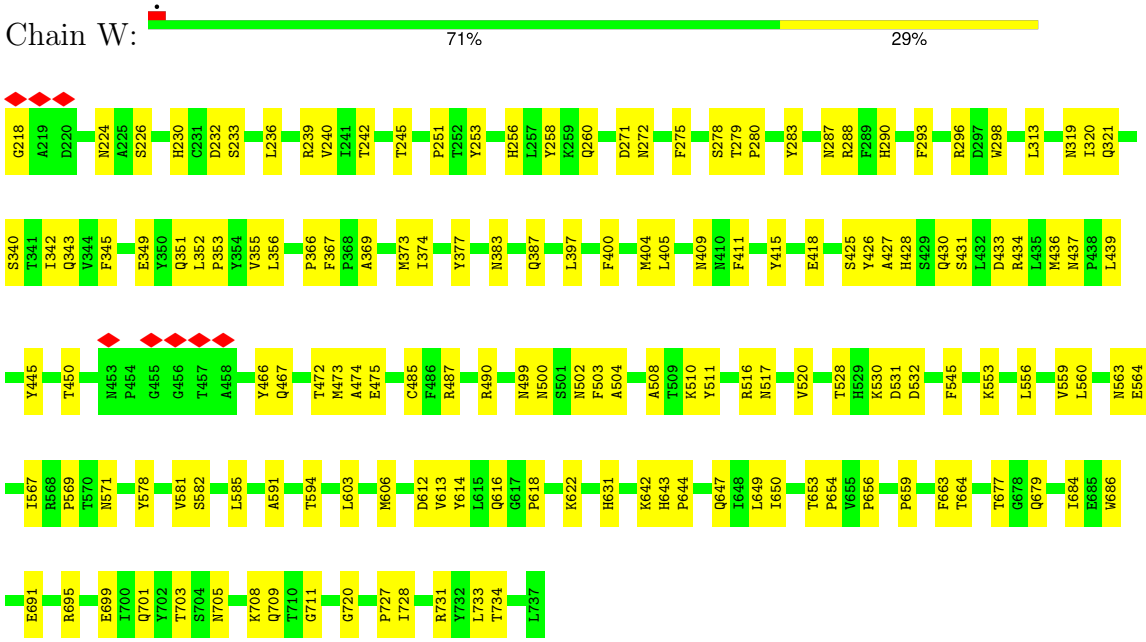
• Molecule 1: Capsid protein

Chain V:



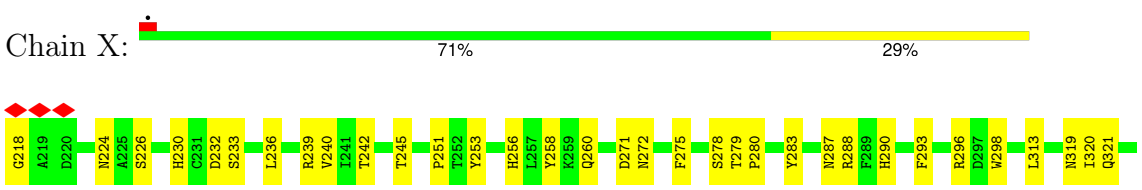
• Molecule 1: Capsid protein

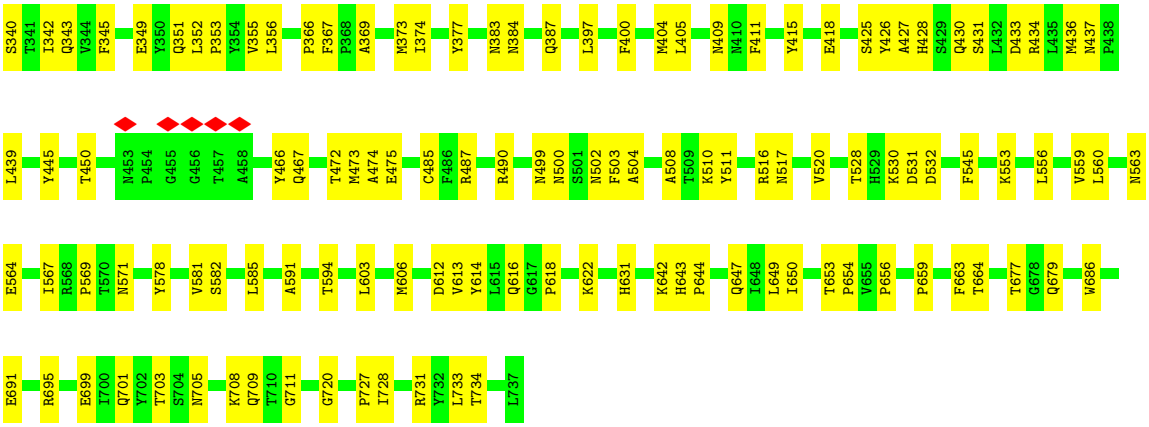
Chain W:



• Molecule 1: Capsid protein

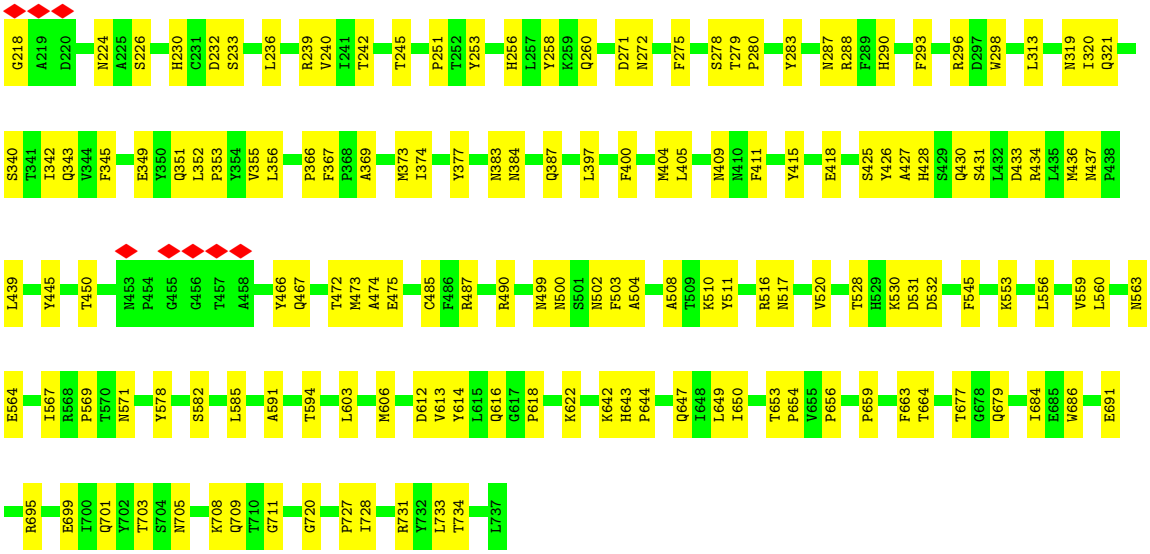
Chain X:





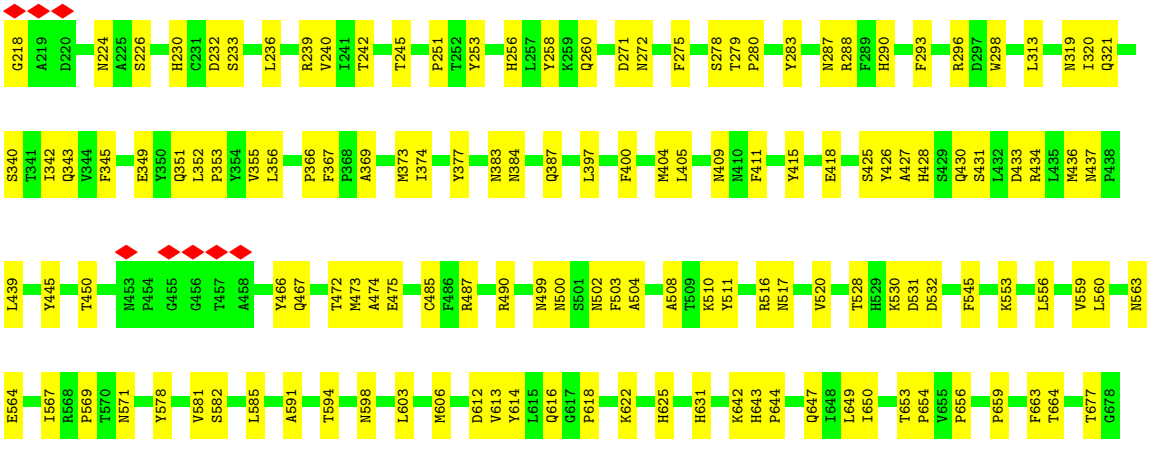
• Molecule 1: Capsid protein

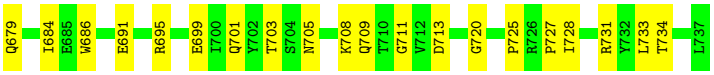
Chain Y:



• Molecule 1: Capsid protein

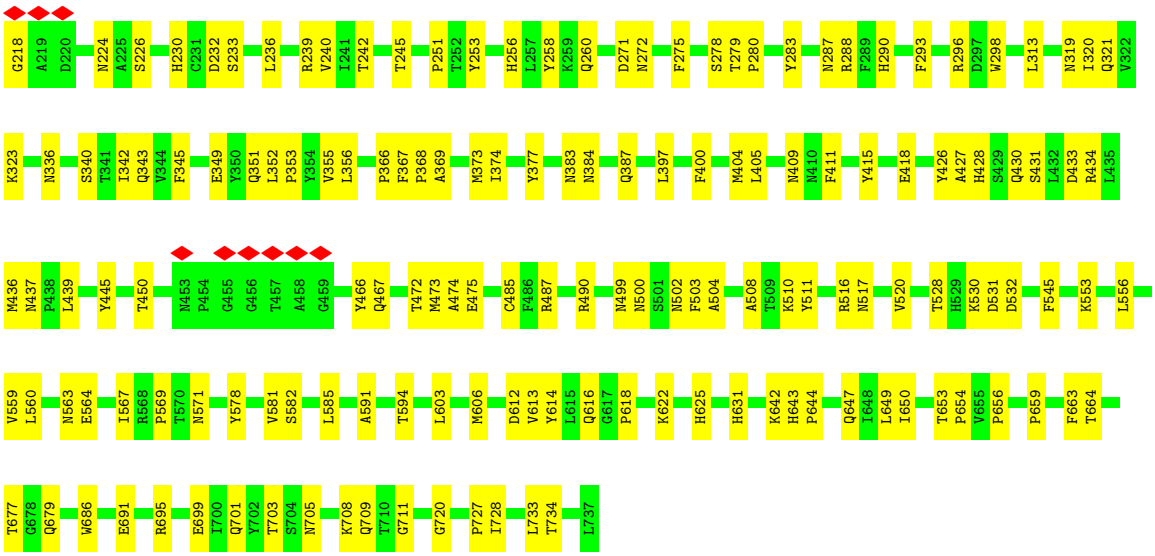
Chain Z:





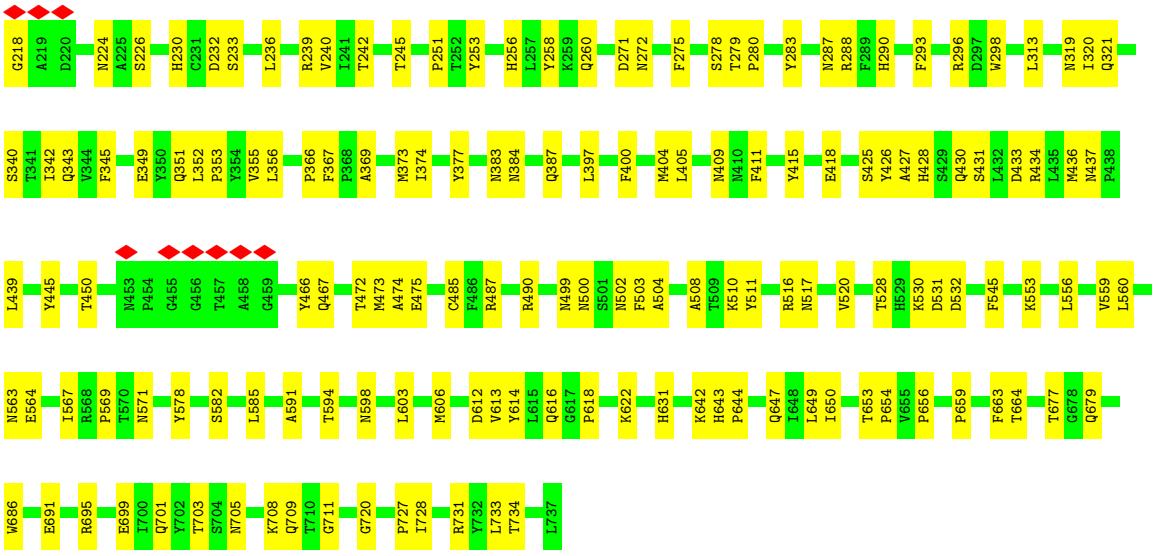
• Molecule 1: Capsid protein

Chain a:



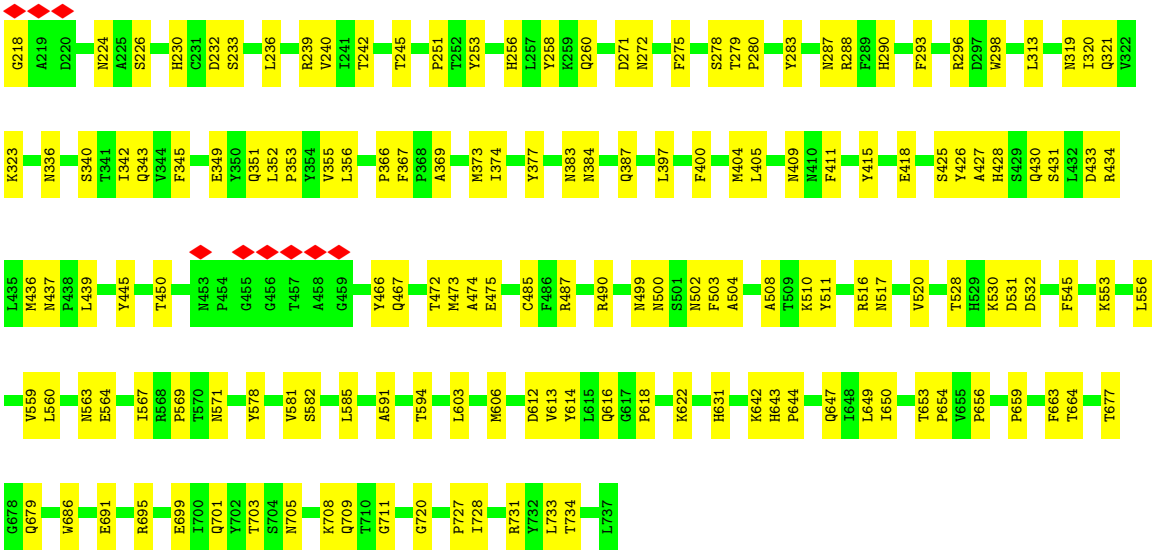
• Molecule 1: Capsid protein

Chain b:



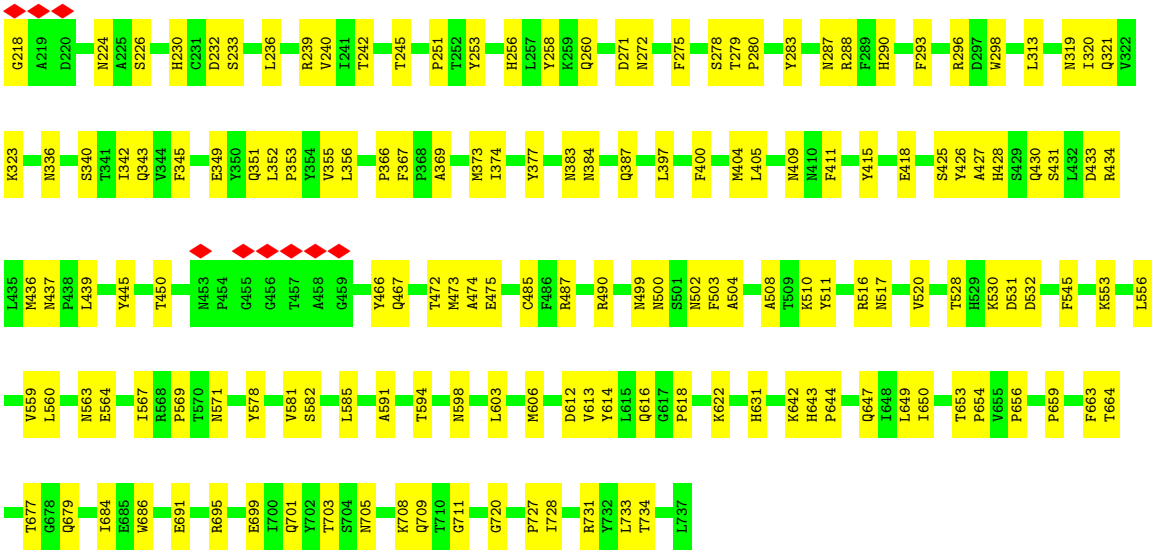
• Molecule 1: Capsid protein

Chain c:



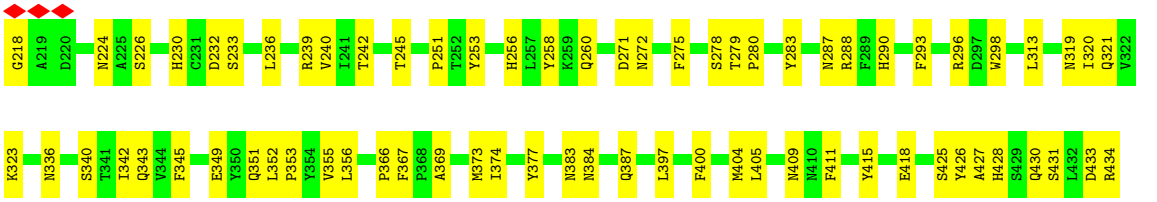
• Molecule 1: Capsid protein

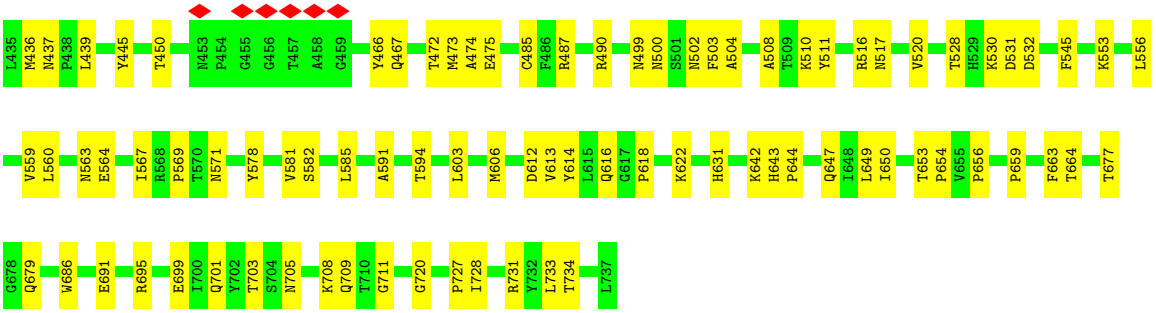
Chain d:



• Molecule 1: Capsid protein

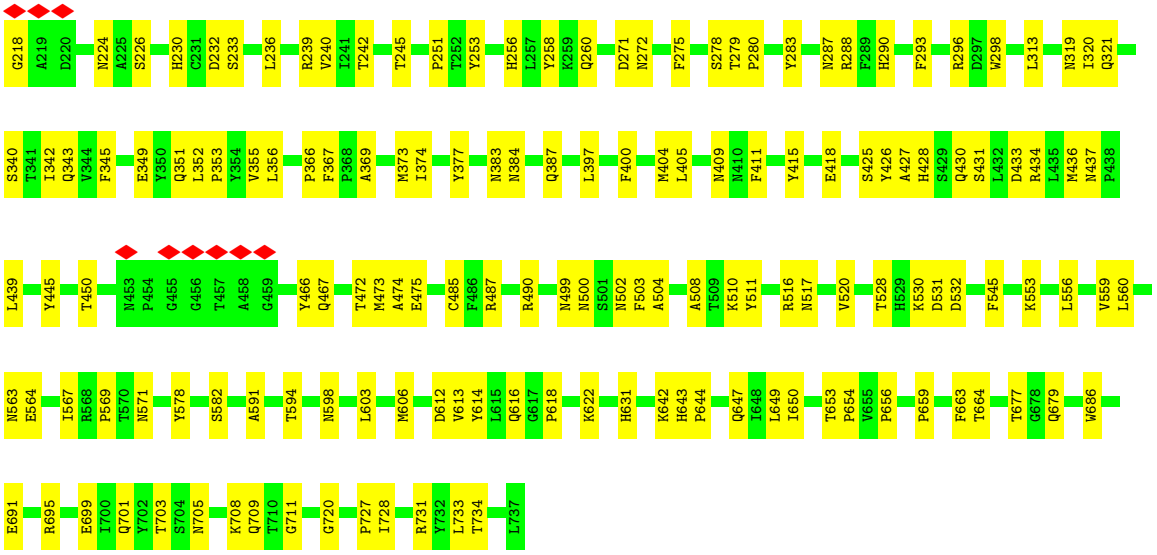
Chain e:





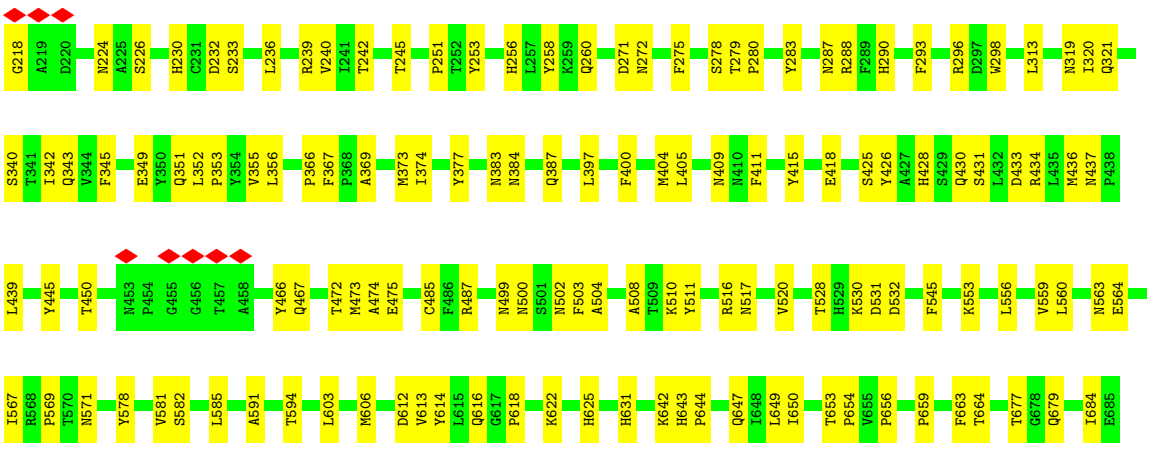
• Molecule 1: Capsid protein

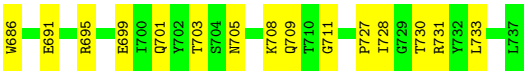
Chain f:



• Molecule 1: Capsid protein

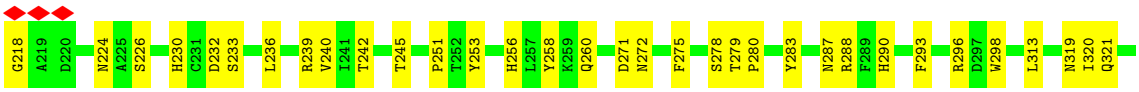
Chain g:

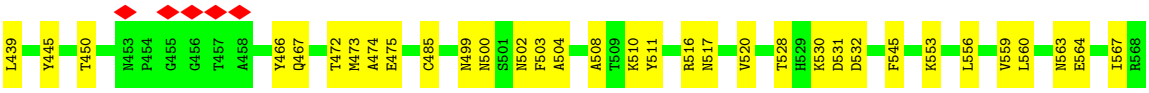


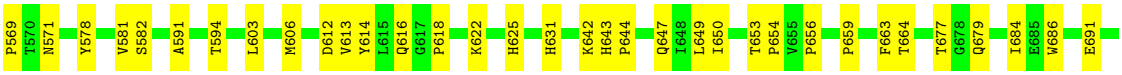


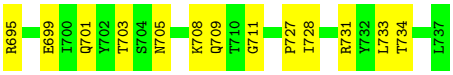
• Molecule 1: Capsid protein

Chain h:



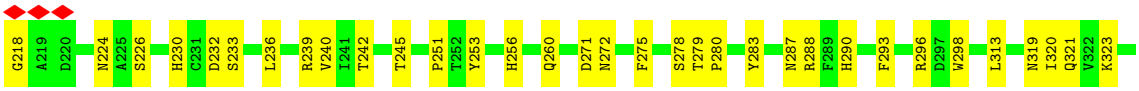


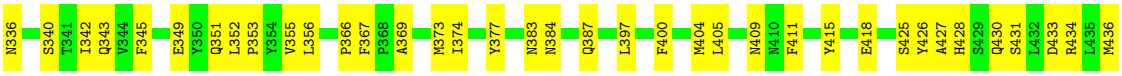


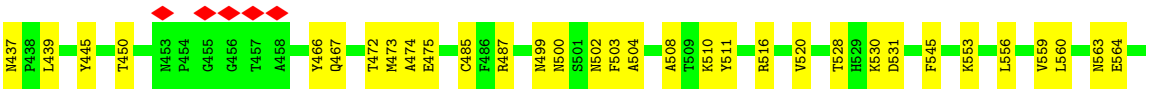


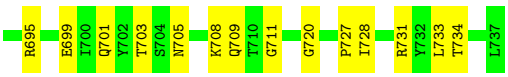
• Molecule 1: Capsid protein

Chain i:



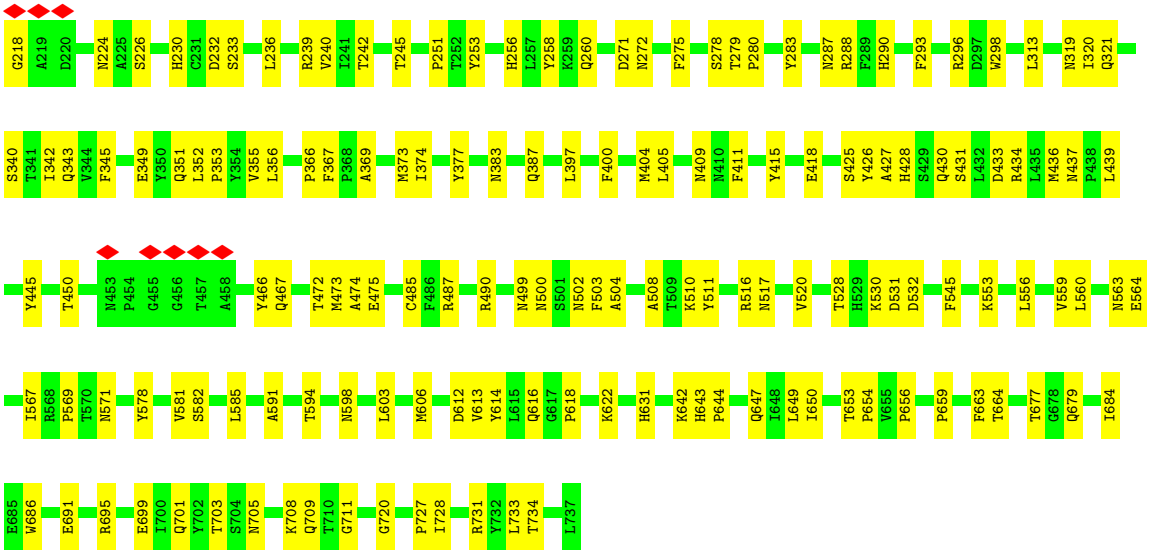






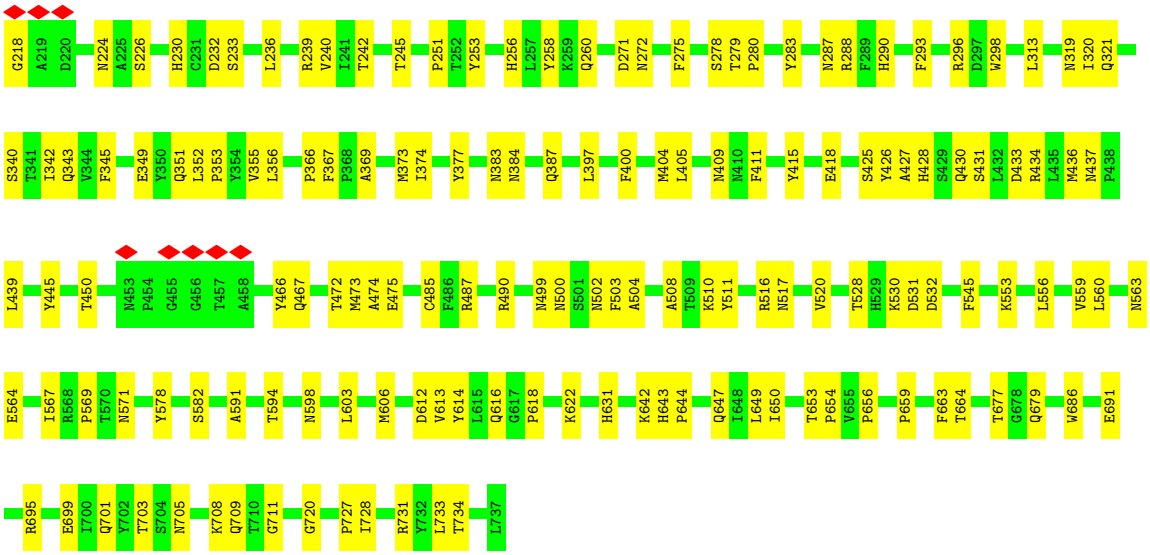
• Molecule 1: Capsid protein

Chain j:



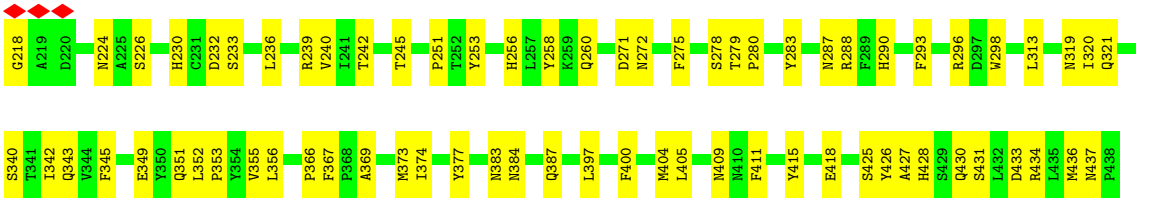
• Molecule 1: Capsid protein

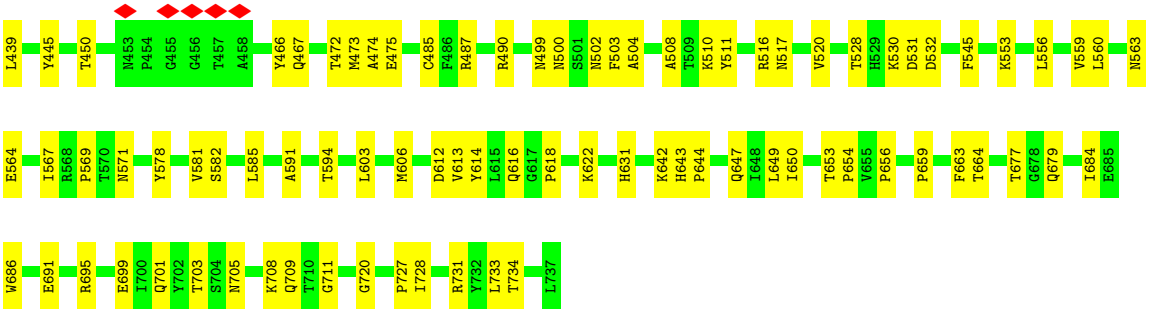
Chain k:



• Molecule 1: Capsid protein

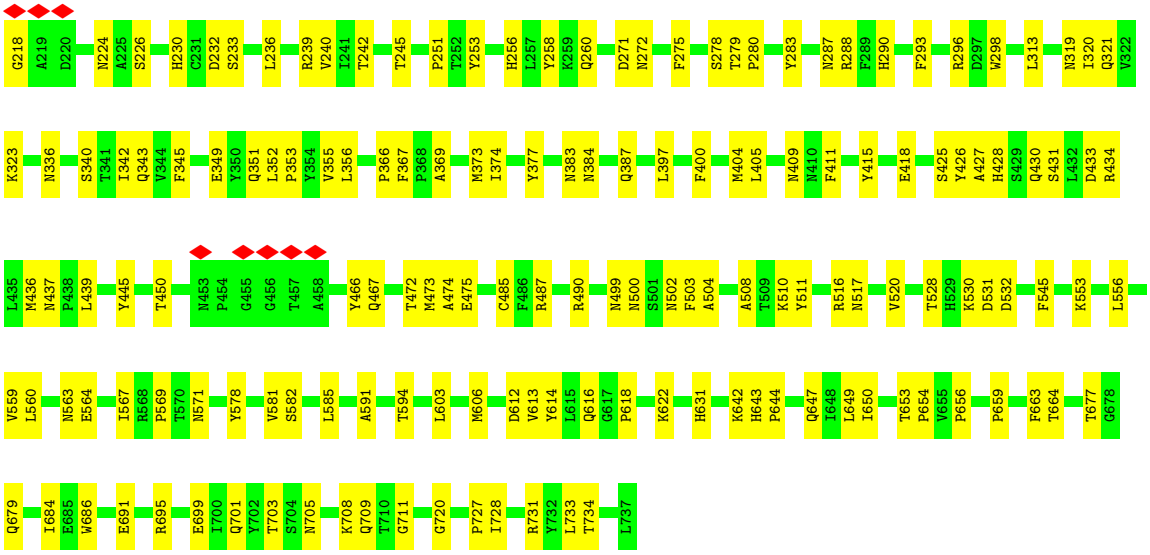
Chain l:





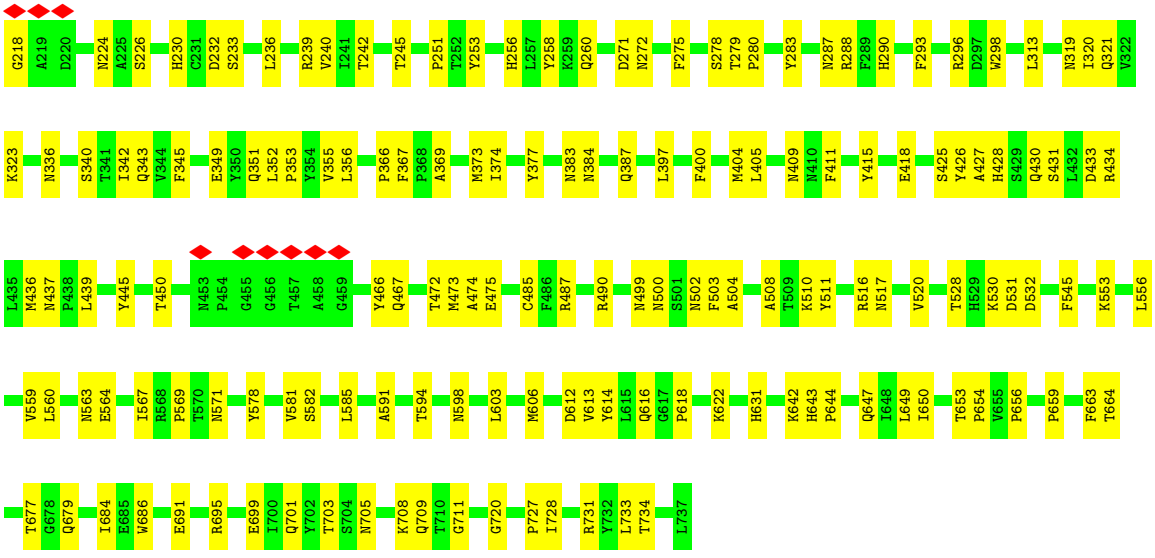
• Molecule 1: Capsid protein

Chain m:



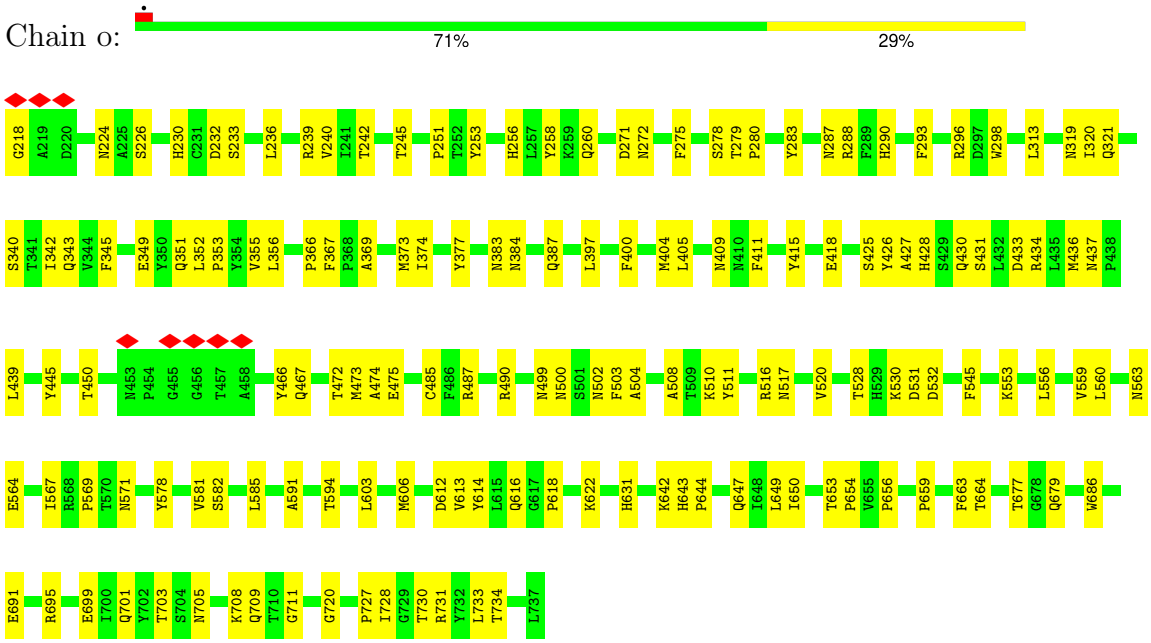
• Molecule 1: Capsid protein

Chain n:



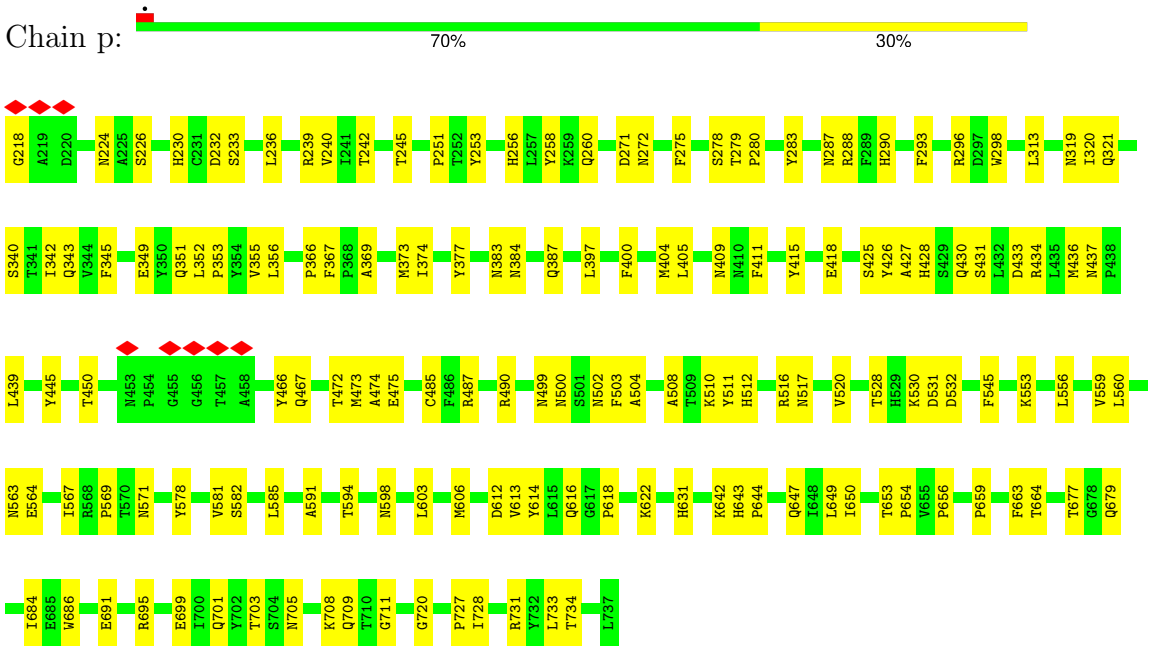
• Molecule 1: Capsid protein

Chain o:



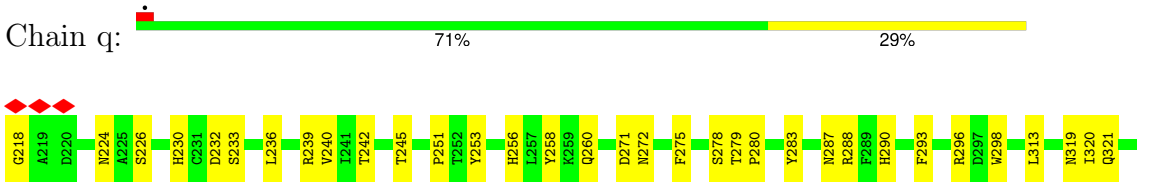
• Molecule 1: Capsid protein

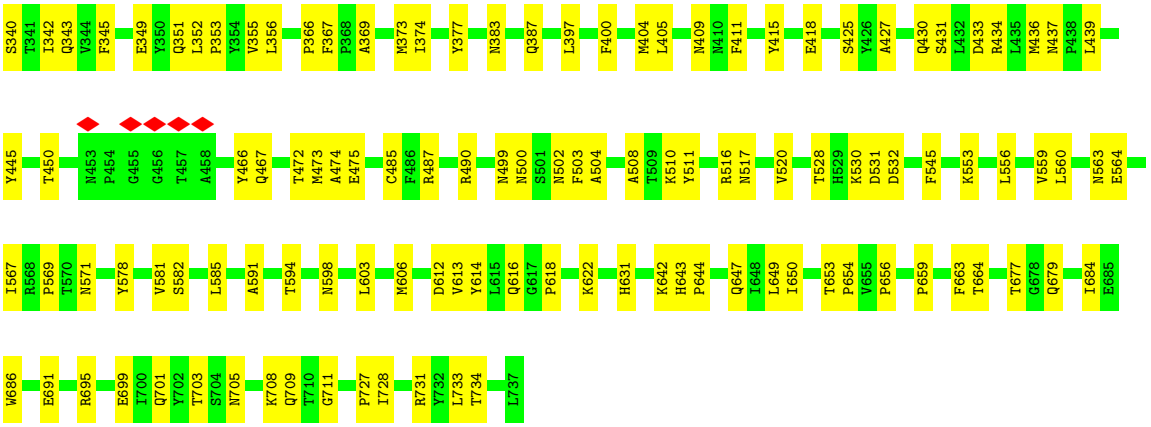
Chain p:



• Molecule 1: Capsid protein

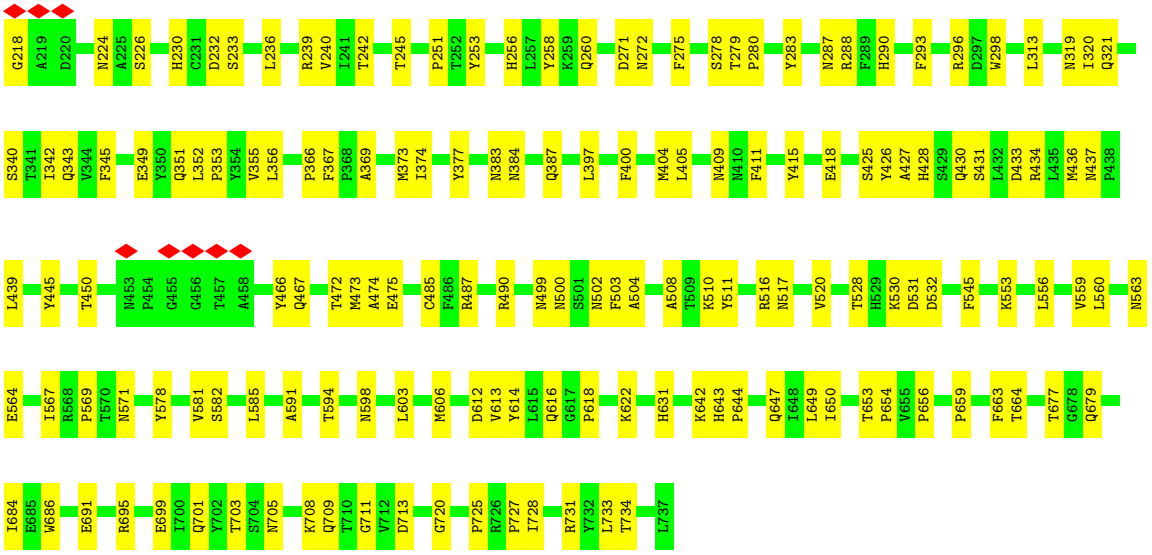
Chain q:





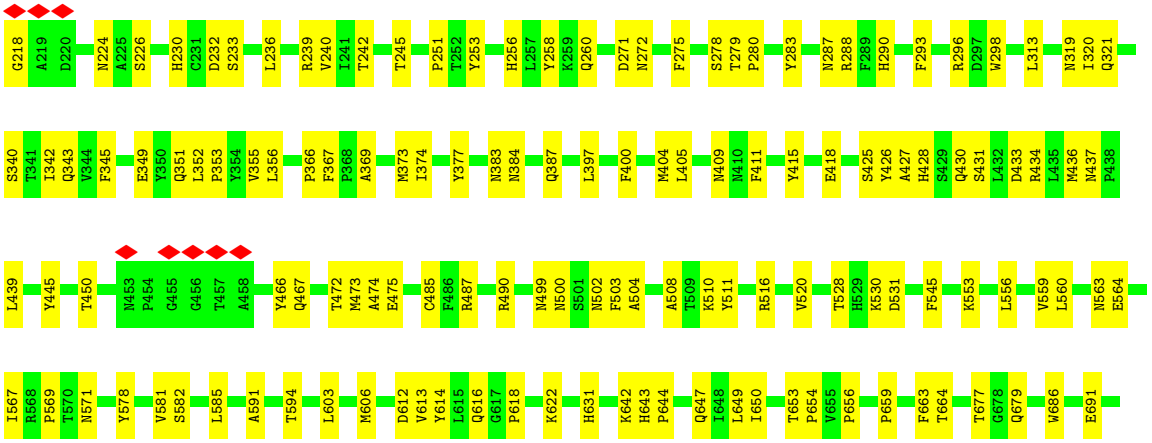
• Molecule 1: Capsid protein

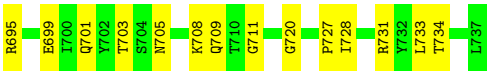
Chain r:



• Molecule 1: Capsid protein

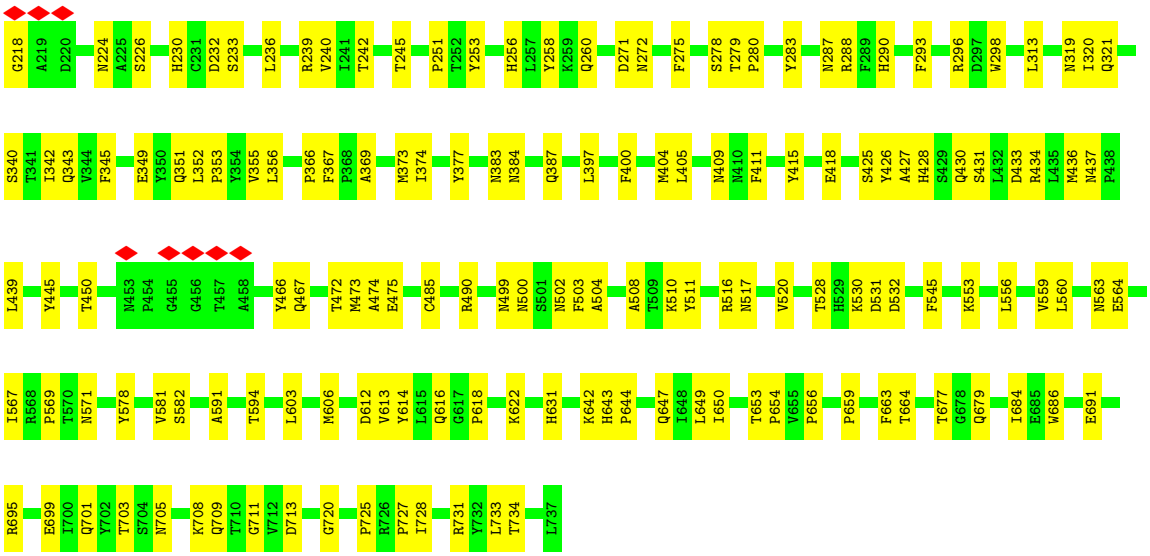
Chain s:





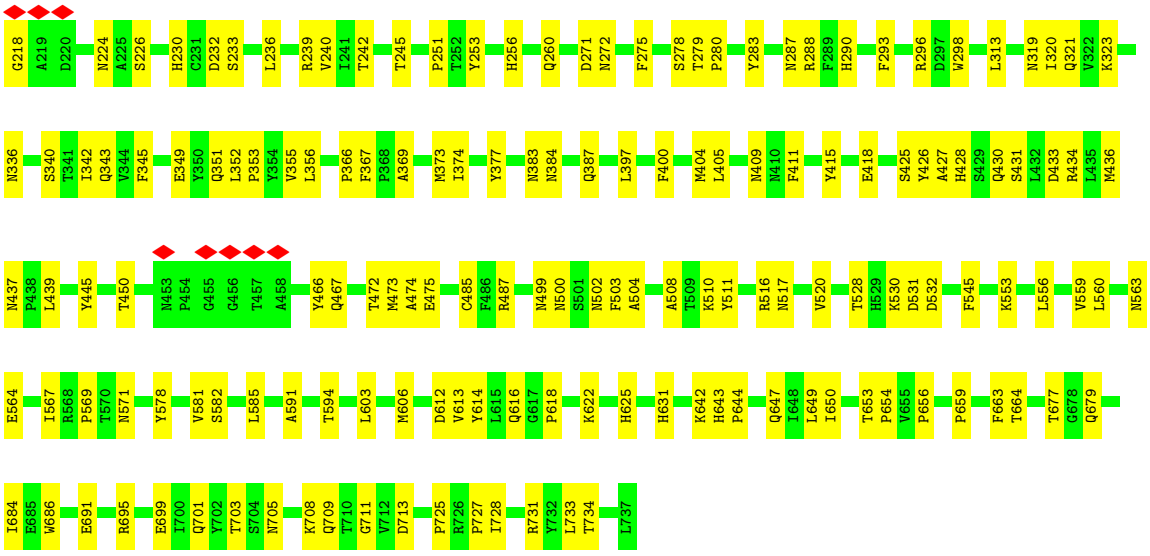
• Molecule 1: Capsid protein

Chain t:



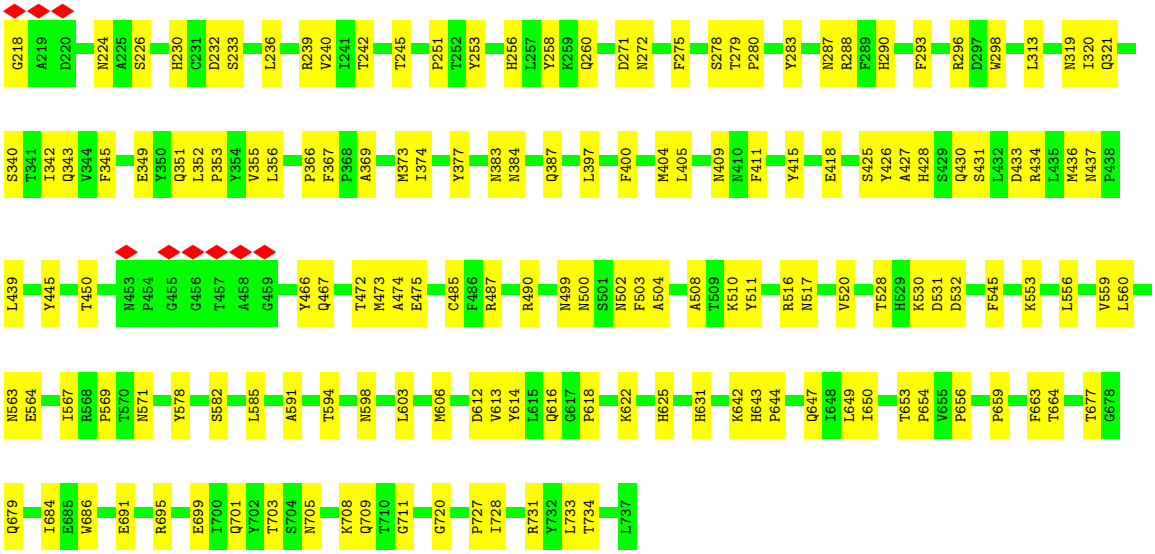
• Molecule 1: Capsid protein

Chain u:



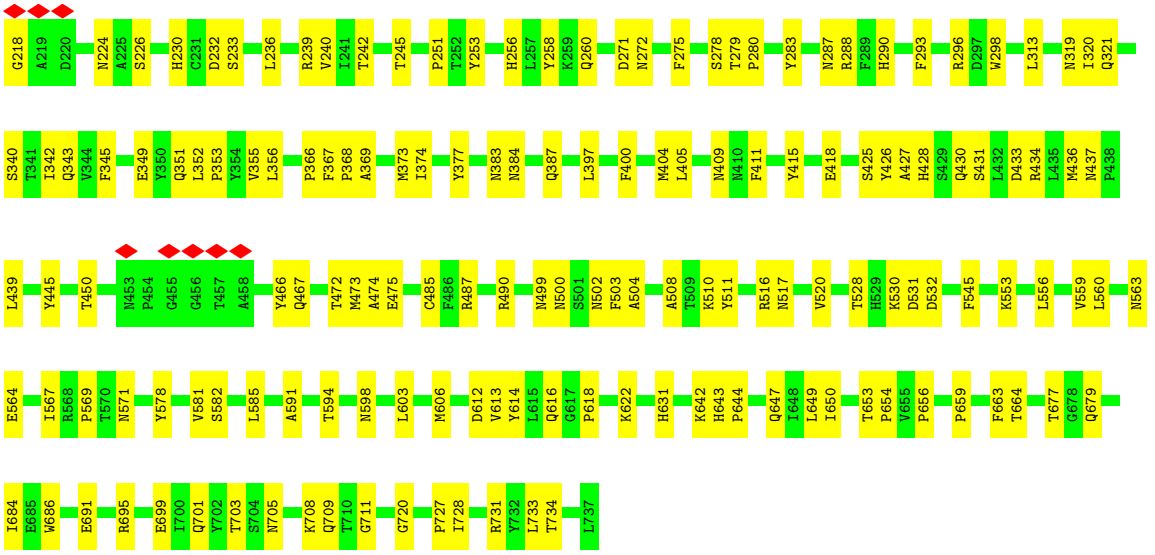
• Molecule 1: Capsid protein

Chain v:



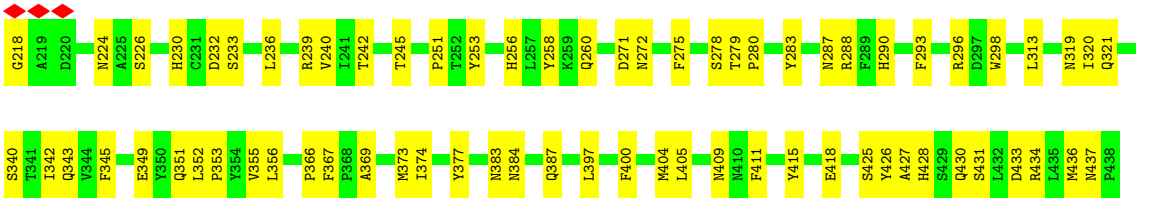
• Molecule 1: Capsid protein

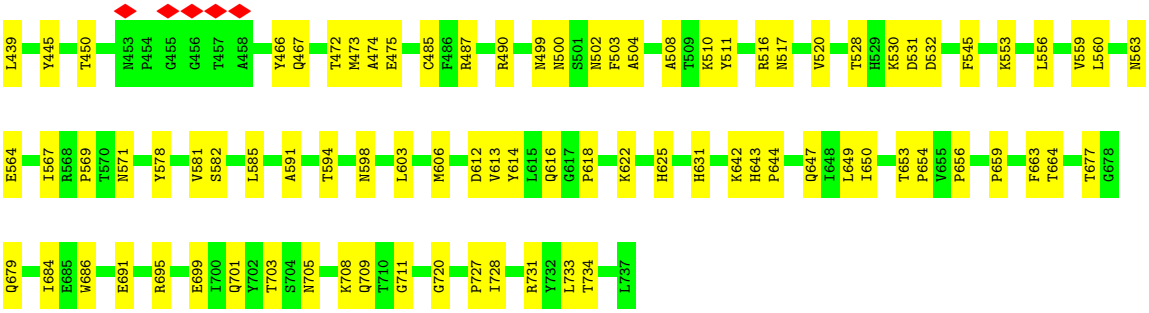
Chain w:



• Molecule 1: Capsid protein

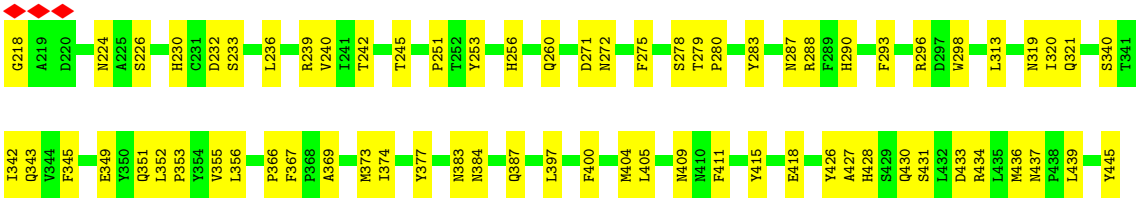
Chain x:





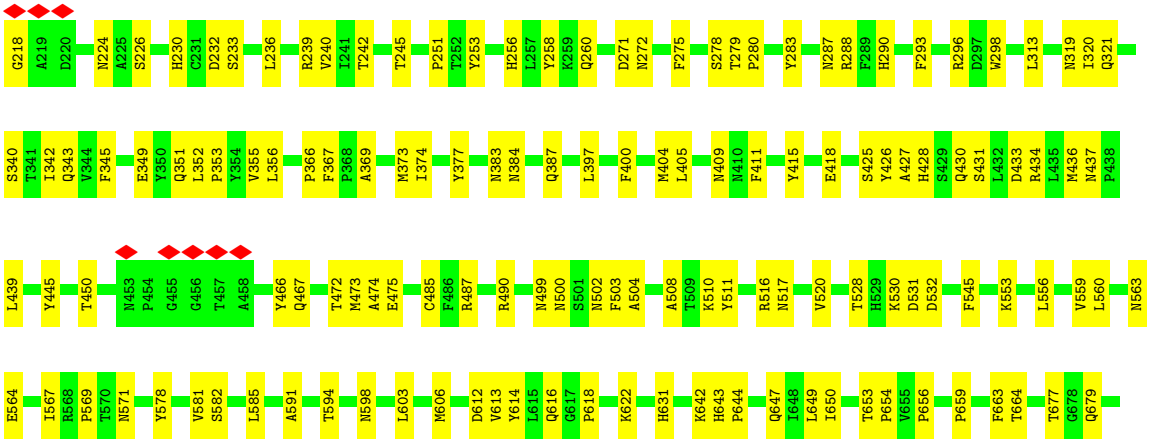
• Molecule 1: Capsid protein

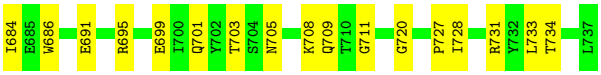
Chain y:



• Molecule 1: Capsid protein

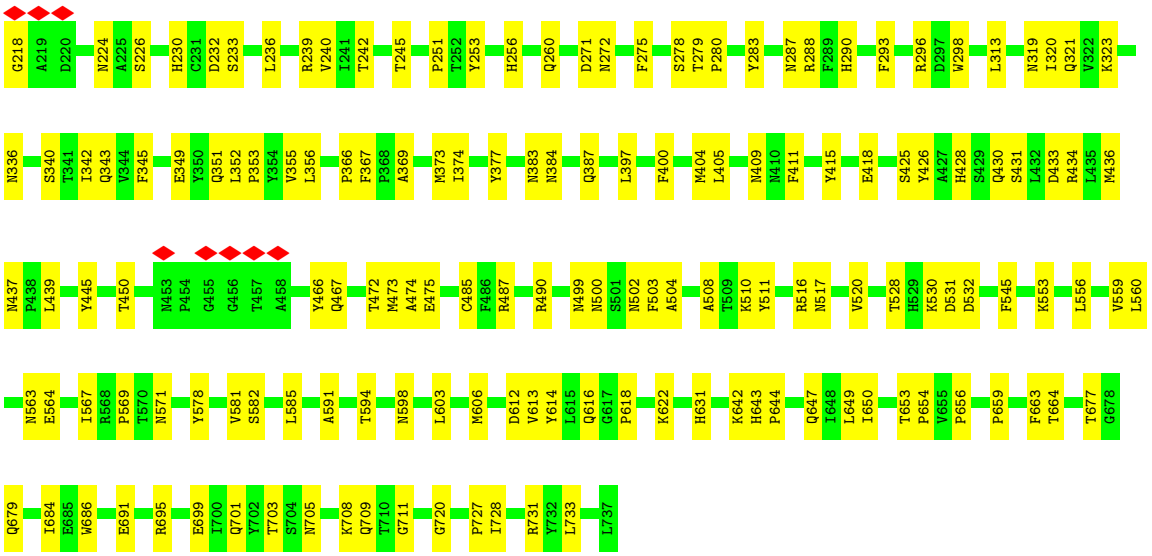
Chain z:





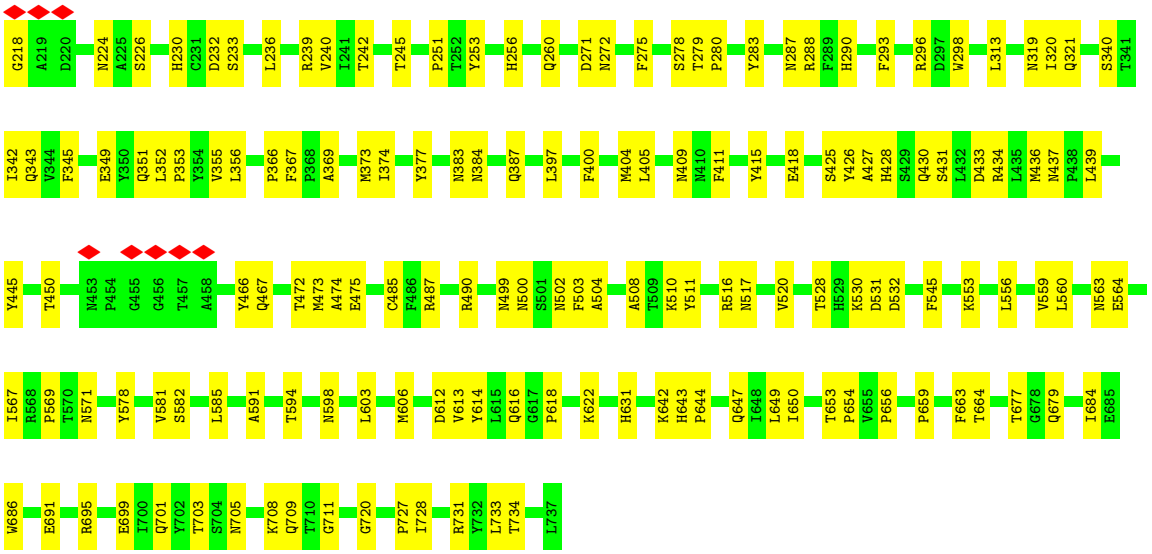
• Molecule 1: Capsid protein

Chain 1:



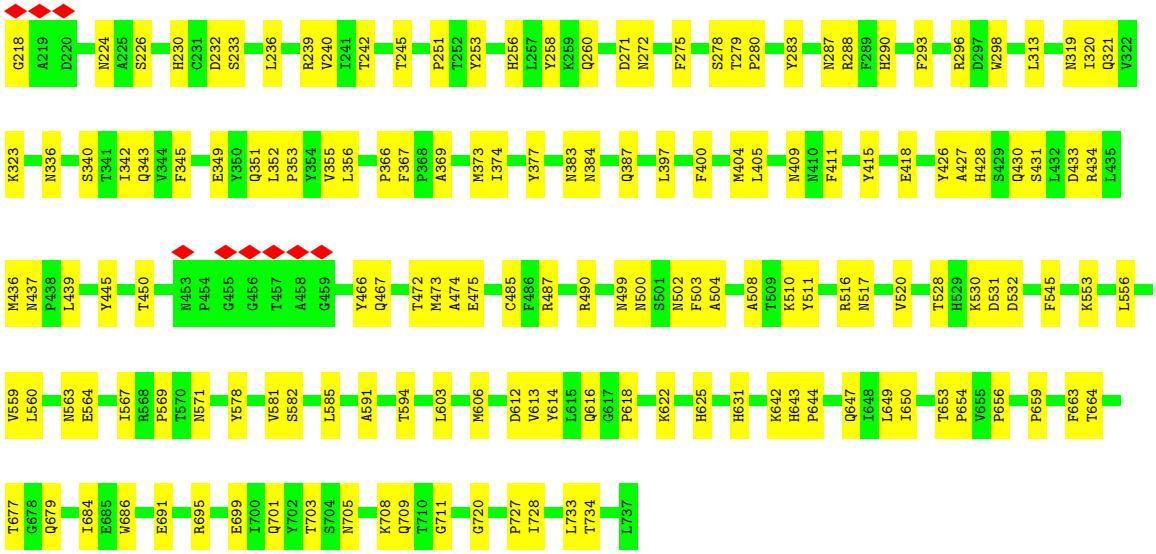
• Molecule 1: Capsid protein

Chain 2:



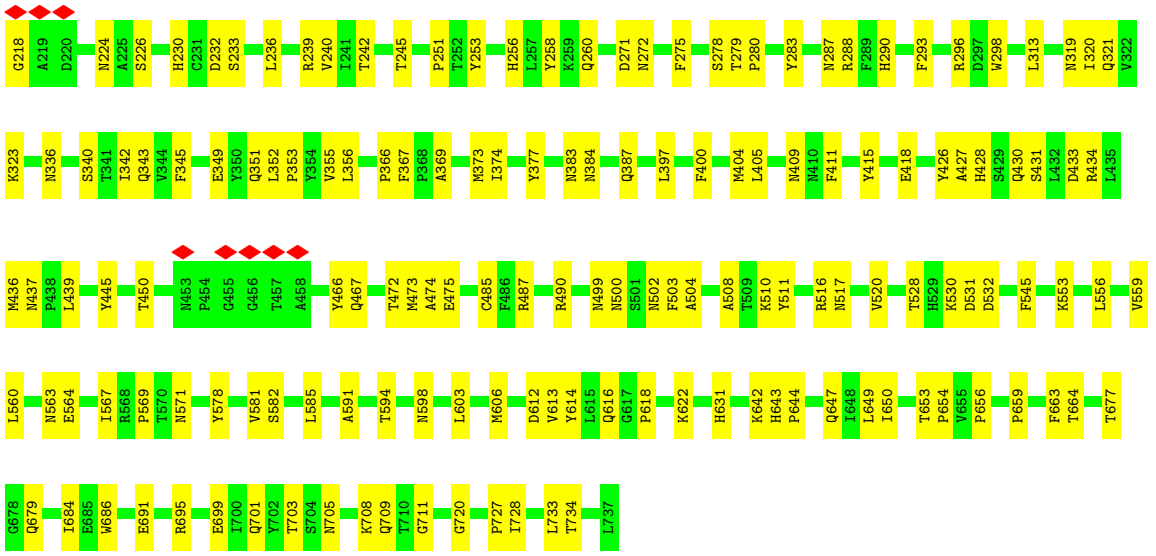
• Molecule 1: Capsid protein

Chain 3:



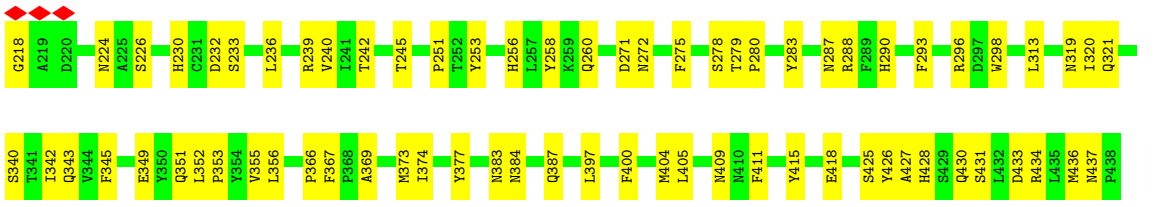
• Molecule 1: Capsid protein

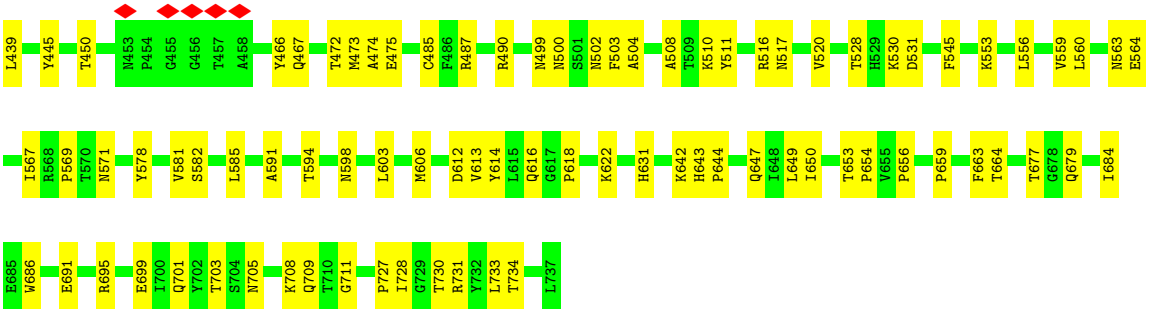
Chain 4:



• Molecule 1: Capsid protein

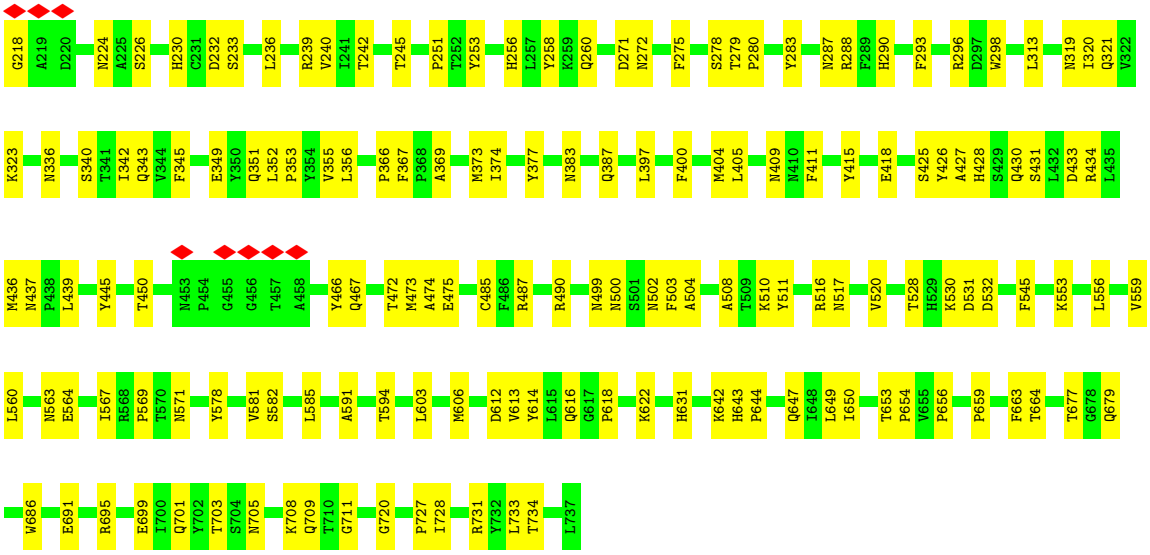
Chain 5:





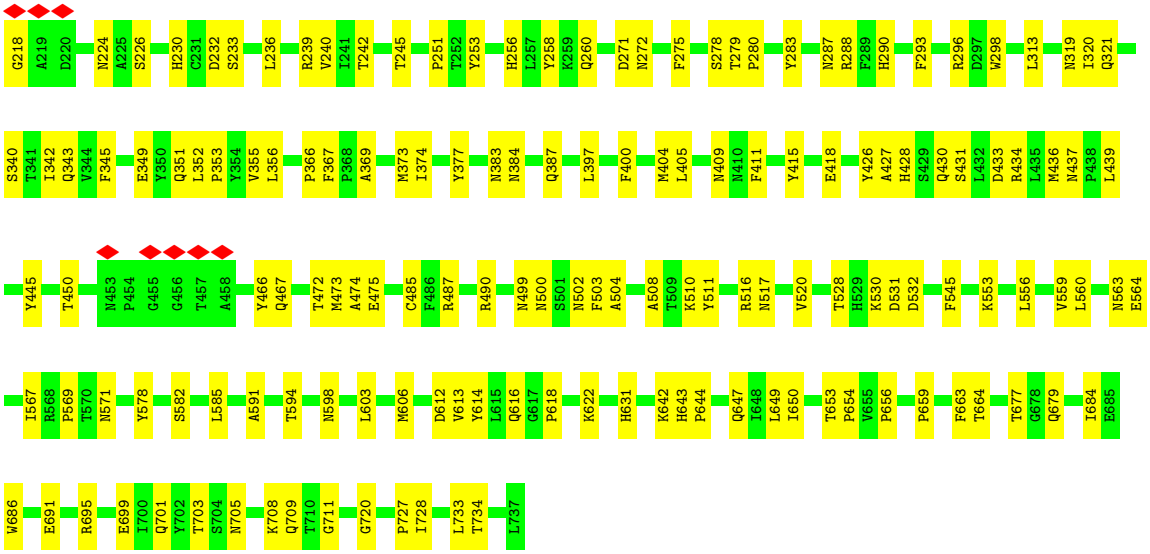
• Molecule 1: Capsid protein

Chain 6:



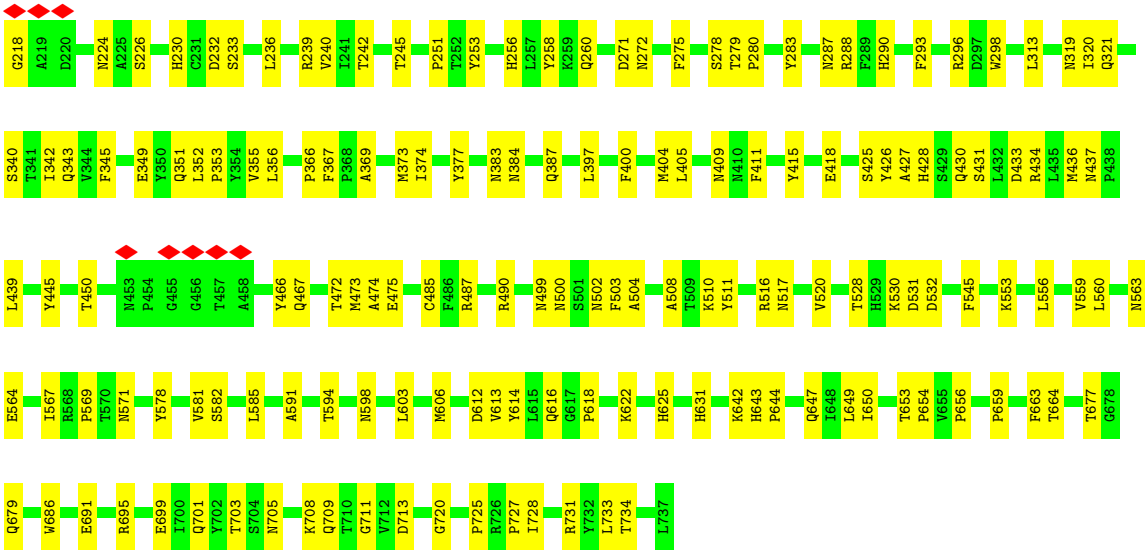
• Molecule 1: Capsid protein

Chain 7:



• Molecule 1: Capsid protein

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	4695	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	14.133	Depositor
Minimum map value	-8.501	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	454.02, 454.02, 454.02	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.081, 1.081, 1.081	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: D5M

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	0.43	0/4270	0.52	1/5824 (0.0%)
1	2	0.43	0/4270	0.52	1/5824 (0.0%)
1	3	0.43	0/4270	0.52	1/5824 (0.0%)
1	4	0.43	0/4270	0.52	1/5824 (0.0%)
1	5	0.43	0/4270	0.52	1/5824 (0.0%)
1	6	0.43	0/4270	0.52	1/5824 (0.0%)
1	7	0.43	0/4270	0.52	1/5824 (0.0%)
1	8	0.43	0/4270	0.52	1/5824 (0.0%)
1	A	0.43	0/4270	0.52	1/5824 (0.0%)
1	B	0.43	0/4270	0.52	1/5824 (0.0%)
1	C	0.43	0/4270	0.52	1/5824 (0.0%)
1	D	0.43	0/4270	0.52	1/5824 (0.0%)
1	E	0.43	0/4270	0.52	1/5824 (0.0%)
1	F	0.43	0/4270	0.52	1/5824 (0.0%)
1	G	0.43	0/4270	0.52	1/5824 (0.0%)
1	H	0.43	0/4270	0.52	1/5824 (0.0%)
1	I	0.43	0/4270	0.52	1/5824 (0.0%)
1	J	0.43	0/4270	0.52	1/5824 (0.0%)
1	K	0.43	0/4270	0.52	1/5824 (0.0%)
1	L	0.43	0/4270	0.52	1/5824 (0.0%)
1	M	0.43	0/4270	0.52	1/5824 (0.0%)
1	N	0.43	0/4270	0.52	1/5824 (0.0%)
1	O	0.43	0/4270	0.52	1/5824 (0.0%)
1	P	0.43	0/4270	0.52	1/5824 (0.0%)
1	Q	0.43	0/4270	0.52	1/5824 (0.0%)
1	R	0.43	0/4270	0.52	1/5824 (0.0%)
1	S	0.43	0/4270	0.52	1/5824 (0.0%)
1	T	0.43	0/4270	0.52	1/5824 (0.0%)
1	U	0.43	0/4270	0.52	1/5824 (0.0%)
1	V	0.43	0/4270	0.52	1/5824 (0.0%)
1	W	0.43	0/4270	0.52	1/5824 (0.0%)
1	X	0.43	0/4270	0.52	1/5824 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	Y	0.43	0/4270	0.52	1/5824 (0.0%)
1	Z	0.43	0/4270	0.52	1/5824 (0.0%)
1	a	0.43	0/4270	0.52	1/5824 (0.0%)
1	b	0.43	0/4270	0.52	1/5824 (0.0%)
1	c	0.43	0/4270	0.52	1/5824 (0.0%)
1	d	0.43	0/4270	0.52	1/5824 (0.0%)
1	e	0.43	0/4270	0.52	1/5824 (0.0%)
1	f	0.43	0/4270	0.52	1/5824 (0.0%)
1	g	0.43	0/4270	0.52	1/5824 (0.0%)
1	h	0.43	0/4270	0.52	1/5824 (0.0%)
1	i	0.43	0/4270	0.52	1/5824 (0.0%)
1	j	0.43	0/4270	0.52	1/5824 (0.0%)
1	k	0.43	0/4270	0.52	1/5824 (0.0%)
1	l	0.43	0/4270	0.52	1/5824 (0.0%)
1	m	0.43	0/4270	0.52	1/5824 (0.0%)
1	n	0.43	0/4270	0.52	1/5824 (0.0%)
1	o	0.43	0/4270	0.52	1/5824 (0.0%)
1	p	0.43	0/4270	0.52	1/5824 (0.0%)
1	q	0.43	0/4270	0.52	1/5824 (0.0%)
1	r	0.43	0/4270	0.52	1/5824 (0.0%)
1	s	0.43	0/4270	0.52	1/5824 (0.0%)
1	t	0.43	0/4270	0.52	1/5824 (0.0%)
1	u	0.43	0/4270	0.52	1/5824 (0.0%)
1	v	0.43	0/4270	0.52	1/5824 (0.0%)
1	w	0.43	0/4270	0.52	1/5824 (0.0%)
1	x	0.43	0/4270	0.52	1/5824 (0.0%)
1	y	0.43	0/4270	0.52	1/5824 (0.0%)
1	z	0.43	0/4270	0.52	1/5824 (0.0%)
All	All	0.43	0/256200	0.52	60/349440 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	705	ASN	N-CA-C	8.47	120.51	111.28
1	r	705	ASN	N-CA-C	8.47	120.51	111.28
1	2	705	ASN	N-CA-C	8.47	120.51	111.28
1	W	705	ASN	N-CA-C	8.47	120.51	111.28
1	6	705	ASN	N-CA-C	8.47	120.51	111.28
1	j	705	ASN	N-CA-C	8.47	120.51	111.28
1	E	705	ASN	N-CA-C	8.46	120.50	111.28
1	X	705	ASN	N-CA-C	8.46	120.50	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	705	ASN	N-CA-C	8.46	120.50	111.28
1	H	705	ASN	N-CA-C	8.45	120.49	111.28
1	l	705	ASN	N-CA-C	8.45	120.49	111.28
1	5	705	ASN	N-CA-C	8.45	120.49	111.28
1	D	705	ASN	N-CA-C	8.45	120.48	111.28
1	B	705	ASN	N-CA-C	8.44	120.48	111.28
1	L	705	ASN	N-CA-C	8.44	120.48	111.28
1	R	705	ASN	N-CA-C	8.44	120.48	111.28
1	U	705	ASN	N-CA-C	8.44	120.48	111.28
1	q	705	ASN	N-CA-C	8.44	120.48	111.28
1	s	705	ASN	N-CA-C	8.44	120.48	111.28
1	z	705	ASN	N-CA-C	8.44	120.48	111.28
1	1	705	ASN	N-CA-C	8.44	120.48	111.28
1	C	705	ASN	N-CA-C	8.44	120.48	111.28
1	I	705	ASN	N-CA-C	8.44	120.48	111.28
1	Q	705	ASN	N-CA-C	8.44	120.48	111.28
1	T	705	ASN	N-CA-C	8.44	120.48	111.28
1	Z	705	ASN	N-CA-C	8.44	120.48	111.28
1	g	705	ASN	N-CA-C	8.44	120.47	111.28
1	u	705	ASN	N-CA-C	8.44	120.48	111.28
1	x	705	ASN	N-CA-C	8.44	120.48	111.28
1	8	705	ASN	N-CA-C	8.44	120.48	111.28
1	P	705	ASN	N-CA-C	8.43	120.47	111.28
1	A	705	ASN	N-CA-C	8.43	120.46	111.28
1	F	705	ASN	N-CA-C	8.43	120.46	111.28
1	a	705	ASN	N-CA-C	8.43	120.46	111.28
1	d	705	ASN	N-CA-C	8.43	120.46	111.28
1	n	705	ASN	N-CA-C	8.43	120.46	111.28
1	v	705	ASN	N-CA-C	8.43	120.46	111.28
1	y	705	ASN	N-CA-C	8.43	120.46	111.28
1	3	705	ASN	N-CA-C	8.43	120.46	111.28
1	b	705	ASN	N-CA-C	8.42	120.46	111.28
1	c	705	ASN	N-CA-C	8.42	120.46	111.28
1	e	705	ASN	N-CA-C	8.42	120.46	111.28
1	f	705	ASN	N-CA-C	8.42	120.46	111.28
1	J	705	ASN	N-CA-C	8.42	120.45	111.28
1	O	705	ASN	N-CA-C	8.41	120.45	111.28
1	i	705	ASN	N-CA-C	8.41	120.45	111.28
1	K	705	ASN	N-CA-C	8.41	120.44	111.28
1	m	705	ASN	N-CA-C	8.41	120.44	111.28
1	4	705	ASN	N-CA-C	8.41	120.44	111.28
1	V	705	ASN	N-CA-C	8.41	120.44	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	705	ASN	N-CA-C	8.41	120.44	111.28
1	Y	705	ASN	N-CA-C	8.40	120.44	111.28
1	k	705	ASN	N-CA-C	8.40	120.44	111.28
1	7	705	ASN	N-CA-C	8.40	120.44	111.28
1	G	705	ASN	N-CA-C	8.40	120.43	111.28
1	M	705	ASN	N-CA-C	8.40	120.43	111.28
1	h	705	ASN	N-CA-C	8.40	120.43	111.28
1	N	705	ASN	N-CA-C	8.39	120.43	111.28
1	w	705	ASN	N-CA-C	8.39	120.42	111.28
1	t	705	ASN	N-CA-C	8.38	120.41	111.28

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4145	0	3917	129	0
1	2	4145	0	3917	132	0
1	3	4145	0	3917	134	0
1	4	4145	0	3917	133	0
1	5	4145	0	3917	130	0
1	6	4145	0	3917	131	0
1	7	4145	0	3917	127	0
1	8	4145	0	3917	133	0
1	A	4145	0	3917	129	0
1	B	4145	0	3917	130	0
1	C	4145	0	3917	132	0
1	D	4145	0	3917	131	0
1	E	4145	0	3917	131	0
1	F	4145	0	3917	130	0
1	G	4145	0	3917	131	0
1	H	4145	0	3917	129	0
1	I	4145	0	3917	131	0
1	J	4145	0	3917	132	0
1	K	4145	0	3917	131	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	4145	0	3917	132	0
1	M	4145	0	3917	130	0
1	N	4145	0	3917	129	0
1	O	4145	0	3917	129	0
1	P	4145	0	3917	133	0
1	Q	4145	0	3917	134	0
1	R	4145	0	3917	129	0
1	S	4145	0	3917	132	0
1	T	4145	0	3917	129	0
1	U	4145	0	3917	128	0
1	V	4145	0	3917	131	0
1	W	4145	0	3917	130	0
1	X	4145	0	3917	128	0
1	Y	4145	0	3917	126	0
1	Z	4145	0	3917	134	0
1	a	4145	0	3917	134	0
1	b	4145	0	3917	130	0
1	c	4145	0	3917	132	0
1	d	4145	0	3917	133	0
1	e	4145	0	3917	131	0
1	f	4145	0	3917	129	0
1	g	4145	0	3917	131	0
1	h	4145	0	3917	129	0
1	i	4145	0	3917	126	0
1	j	4145	0	3917	130	0
1	k	4145	0	3917	128	0
1	l	4145	0	3917	130	0
1	m	4145	0	3917	130	0
1	n	4145	0	3917	133	0
1	o	4145	0	3917	130	0
1	p	4145	0	3917	133	0
1	q	4145	0	3917	128	0
1	r	4145	0	3917	134	0
1	s	4145	0	3917	127	0
1	t	4145	0	3917	130	0
1	u	4145	0	3917	130	0
1	v	4145	0	3917	132	0
1	w	4145	0	3917	133	0
1	x	4145	0	3917	134	0
1	y	4145	0	3917	130	0
1	z	4145	0	3917	132	0
2	1	22	0	12	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	2	22	0	12	0	0
2	3	22	0	12	0	0
2	4	22	0	12	0	0
2	5	22	0	12	0	0
2	6	22	0	12	0	0
2	7	22	0	12	0	0
2	8	22	0	12	0	0
2	A	22	0	12	0	0
2	B	22	0	12	0	0
2	C	22	0	12	0	0
2	D	22	0	12	0	0
2	E	22	0	12	0	0
2	F	22	0	12	0	0
2	G	22	0	12	0	0
2	H	22	0	12	0	0
2	I	22	0	12	0	0
2	J	22	0	12	0	0
2	K	22	0	12	0	0
2	L	22	0	12	0	0
2	M	22	0	12	0	0
2	N	22	0	12	0	0
2	O	22	0	12	0	0
2	P	22	0	12	0	0
2	Q	22	0	12	0	0
2	R	22	0	12	0	0
2	S	22	0	12	0	0
2	T	22	0	12	0	0
2	U	22	0	12	0	0
2	V	22	0	12	0	0
2	W	22	0	12	0	0
2	X	22	0	12	0	0
2	Y	22	0	12	0	0
2	Z	22	0	12	0	0
2	a	22	0	12	0	0
2	b	22	0	12	0	0
2	c	22	0	12	0	0
2	d	22	0	12	0	0
2	e	22	0	12	0	0
2	f	22	0	12	0	0
2	g	22	0	12	0	0
2	h	22	0	12	0	0
2	i	22	0	12	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	j	22	0	12	0	0
2	k	22	0	12	0	0
2	l	22	0	12	0	0
2	m	22	0	12	0	0
2	n	22	0	12	0	0
2	o	22	0	12	0	0
2	p	22	0	12	0	0
2	q	22	0	12	0	0
2	r	22	0	12	0	0
2	s	22	0	12	0	0
2	t	22	0	12	0	0
2	u	22	0	12	0	0
2	v	22	0	12	0	0
2	w	22	0	12	0	0
2	x	22	0	12	0	0
2	y	22	0	12	0	0
2	z	22	0	12	0	0
All	All	250020	0	235740	6324	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 13.

All (6324) 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:N:530:LYS:HG2	1:N:531:ASP:H	1.49	0.78
1:A:530:LYS:HG2	1:A:531:ASP:H	1.49	0.78
1:a:530:LYS:HG2	1:a:531:ASP:H	1.49	0.78
1:3:530:LYS:HG2	1:3:531:ASP:H	1.49	0.78
1:i:530:LYS:HG2	1:i:531:ASP:H	1.49	0.78
1:v:530:LYS:HG2	1:v:531:ASP:H	1.49	0.78
1:C:530:LYS:HG2	1:C:531:ASP:H	1.49	0.78
1:Y:530:LYS:HG2	1:Y:531:ASP:H	1.49	0.78
1:g:530:LYS:HG2	1:g:531:ASP:H	1.49	0.78
1:t:530:LYS:HG2	1:t:531:ASP:H	1.49	0.78
1:z:530:LYS:HG2	1:z:531:ASP:H	1.49	0.78
1:7:530:LYS:HG2	1:7:531:ASP:H	1.49	0.78
1:G:530:LYS:HG2	1:G:531:ASP:H	1.49	0.78
1:K:530:LYS:HG2	1:K:531:ASP:H	1.49	0.78
1:L:530:LYS:HG2	1:L:531:ASP:H	1.49	0.78
1:U:530:LYS:HG2	1:U:531:ASP:H	1.49	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:530:LYS:HG2	1:X:531:ASP:H	1.49	0.78
1:4:530:LYS:HG2	1:4:531:ASP:H	1.49	0.78
1:o:530:LYS:HG2	1:o:531:ASP:H	1.49	0.77
1:s:530:LYS:HG2	1:s:531:ASP:H	1.49	0.77
1:O:530:LYS:HG2	1:O:531:ASP:H	1.49	0.77
1:w:530:LYS:HG2	1:w:531:ASP:H	1.49	0.77
1:y:530:LYS:HG2	1:y:531:ASP:H	1.49	0.77
1:E:530:LYS:HG2	1:E:531:ASP:H	1.49	0.77
1:F:530:LYS:HG2	1:F:531:ASP:H	1.49	0.77
1:l:530:LYS:HG2	1:l:531:ASP:H	1.49	0.77
1:n:530:LYS:HG2	1:n:531:ASP:H	1.49	0.77
1:1:530:LYS:HG2	1:1:531:ASP:H	1.49	0.77
1:d:530:LYS:HG2	1:d:531:ASP:H	1.49	0.77
1:W:530:LYS:HG2	1:W:531:ASP:H	1.49	0.77
1:p:530:LYS:HG2	1:p:531:ASP:H	1.49	0.77
1:6:530:LYS:HG2	1:6:531:ASP:H	1.49	0.77
1:B:530:LYS:HG2	1:B:531:ASP:H	1.49	0.77
1:b:530:LYS:HG2	1:b:531:ASP:H	1.49	0.77
1:h:530:LYS:HG2	1:h:531:ASP:H	1.49	0.77
1:k:530:LYS:HG2	1:k:531:ASP:H	1.49	0.77
1:D:530:LYS:HG2	1:D:531:ASP:H	1.49	0.77
1:V:530:LYS:HG2	1:V:531:ASP:H	1.49	0.77
1:M:530:LYS:HG2	1:M:531:ASP:H	1.49	0.77
1:f:530:LYS:HG2	1:f:531:ASP:H	1.49	0.77
1:2:530:LYS:HG2	1:2:531:ASP:H	1.49	0.76
1:H:530:LYS:HG2	1:H:531:ASP:H	1.49	0.76
1:J:530:LYS:HG2	1:J:531:ASP:H	1.49	0.76
1:m:530:LYS:HG2	1:m:531:ASP:H	1.49	0.76
1:P:530:LYS:HG2	1:P:531:ASP:H	1.49	0.76
1:j:530:LYS:HG2	1:j:531:ASP:H	1.49	0.76
1:u:530:LYS:HG2	1:u:531:ASP:H	1.49	0.76
1:8:530:LYS:HG2	1:8:531:ASP:H	1.49	0.76
1:e:530:LYS:HG2	1:e:531:ASP:H	1.49	0.76
1:5:530:LYS:HG2	1:5:531:ASP:H	1.49	0.76
1:S:530:LYS:HG2	1:S:531:ASP:H	1.49	0.76
1:r:530:LYS:HG2	1:r:531:ASP:H	1.49	0.76
1:I:530:LYS:HG2	1:I:531:ASP:H	1.49	0.76
1:T:530:LYS:HG2	1:T:531:ASP:H	1.49	0.76
1:Z:530:LYS:HG2	1:Z:531:ASP:H	1.49	0.76
1:c:530:LYS:HG2	1:c:531:ASP:H	1.49	0.76
1:x:530:LYS:HG2	1:x:531:ASP:H	1.49	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:530:LYS:HG2	1:R:531:ASP:H	1.49	0.76
1:Q:530:LYS:HG2	1:Q:531:ASP:H	1.49	0.76
1:q:530:LYS:HG2	1:q:531:ASP:H	1.49	0.76
1:Q:288:ARG:NE	1:Q:290:HIS:HE1	1.85	0.75
1:k:288:ARG:NE	1:k:290:HIS:HE1	1.85	0.75
1:D:288:ARG:NE	1:D:290:HIS:HE1	1.85	0.75
1:j:288:ARG:NE	1:j:290:HIS:HE1	1.85	0.75
1:x:288:ARG:NE	1:x:290:HIS:HE1	1.85	0.75
1:4:288:ARG:NE	1:4:290:HIS:HE1	1.85	0.75
1:K:288:ARG:NE	1:K:290:HIS:HE1	1.85	0.75
1:P:288:ARG:NE	1:P:290:HIS:HE1	1.85	0.75
1:C:288:ARG:NE	1:C:290:HIS:HE1	1.85	0.75
1:M:288:ARG:NE	1:M:290:HIS:HE1	1.85	0.75
1:Y:288:ARG:NE	1:Y:290:HIS:HE1	1.85	0.75
1:g:288:ARG:NE	1:g:290:HIS:HE1	1.85	0.75
1:7:288:ARG:NE	1:7:290:HIS:HE1	1.85	0.75
1:E:288:ARG:NE	1:E:290:HIS:HE1	1.85	0.75
1:O:288:ARG:NE	1:O:290:HIS:HE1	1.85	0.75
1:h:288:ARG:NE	1:h:290:HIS:HE1	1.85	0.75
1:l:288:ARG:NE	1:l:290:HIS:HE1	1.85	0.75
1:w:288:ARG:NE	1:w:290:HIS:HE1	1.85	0.75
1:6:288:ARG:NE	1:6:290:HIS:HE1	1.85	0.75
1:B:288:ARG:NE	1:B:290:HIS:HE1	1.85	0.75
1:F:288:ARG:NE	1:F:290:HIS:HE1	1.85	0.75
1:f:288:ARG:NE	1:f:290:HIS:HE1	1.85	0.75
1:m:288:ARG:NE	1:m:290:HIS:HE1	1.85	0.75
1:y:288:ARG:NE	1:y:290:HIS:HE1	1.85	0.75
1:1:288:ARG:NE	1:1:290:HIS:HE1	1.85	0.75
1:T:288:ARG:NE	1:T:290:HIS:HE1	1.85	0.75
1:W:288:ARG:NE	1:W:290:HIS:HE1	1.85	0.75
1:b:288:ARG:NE	1:b:290:HIS:HE1	1.85	0.75
1:c:288:ARG:NE	1:c:290:HIS:HE1	1.85	0.75
1:i:288:ARG:NE	1:i:290:HIS:HE1	1.85	0.75
1:N:288:ARG:NE	1:N:290:HIS:HE1	1.85	0.75
1:e:288:ARG:NE	1:e:290:HIS:HE1	1.85	0.75
1:H:288:ARG:NE	1:H:290:HIS:HE1	1.85	0.74
1:X:288:ARG:NE	1:X:290:HIS:HE1	1.85	0.74
1:L:288:ARG:NE	1:L:290:HIS:HE1	1.85	0.74
1:n:288:ARG:NE	1:n:290:HIS:HE1	1.85	0.74
1:o:288:ARG:NE	1:o:290:HIS:HE1	1.85	0.74
1:G:288:ARG:NE	1:G:290:HIS:HE1	1.85	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:288:ARG:NE	1:a:290:HIS:HE1	1.85	0.74
1:z:288:ARG:NE	1:z:290:HIS:HE1	1.85	0.74
1:5:288:ARG:NE	1:5:290:HIS:HE1	1.85	0.74
1:A:288:ARG:NE	1:A:290:HIS:HE1	1.85	0.74
1:d:288:ARG:NE	1:d:290:HIS:HE1	1.85	0.74
1:v:288:ARG:NE	1:v:290:HIS:HE1	1.85	0.74
1:3:288:ARG:NE	1:3:290:HIS:HE1	1.85	0.74
1:J:288:ARG:NE	1:J:290:HIS:HE1	1.85	0.74
1:r:288:ARG:NE	1:r:290:HIS:HE1	1.85	0.74
1:t:288:ARG:NE	1:t:290:HIS:HE1	1.85	0.74
1:S:288:ARG:NE	1:S:290:HIS:HE1	1.85	0.74
1:U:288:ARG:NE	1:U:290:HIS:HE1	1.85	0.74
1:s:288:ARG:NE	1:s:290:HIS:HE1	1.85	0.74
1:2:288:ARG:NE	1:2:290:HIS:HE1	1.85	0.74
1:q:288:ARG:NE	1:q:290:HIS:HE1	1.85	0.74
1:R:288:ARG:NE	1:R:290:HIS:HE1	1.85	0.74
1:Z:288:ARG:NE	1:Z:290:HIS:HE1	1.85	0.73
1:u:288:ARG:NE	1:u:290:HIS:HE1	1.85	0.73
1:8:288:ARG:NE	1:8:290:HIS:HE1	1.85	0.73
1:M:279:THR:OG1	1:M:377:TYR:O	2.07	0.73
1:h:279:THR:OG1	1:h:377:TYR:O	2.07	0.73
1:I:288:ARG:NE	1:I:290:HIS:HE1	1.85	0.73
1:p:288:ARG:NE	1:p:290:HIS:HE1	1.85	0.73
1:c:279:THR:OG1	1:c:377:TYR:O	2.07	0.73
1:e:279:THR:OG1	1:e:377:TYR:O	2.07	0.73
1:V:288:ARG:NE	1:V:290:HIS:HE1	1.85	0.73
1:Z:279:THR:OG1	1:Z:377:TYR:O	2.07	0.73
1:6:279:THR:OG1	1:6:377:TYR:O	2.07	0.73
1:8:279:THR:OG1	1:8:377:TYR:O	2.07	0.73
1:W:279:THR:OG1	1:W:377:TYR:O	2.07	0.73
1:Y:279:THR:OG1	1:Y:377:TYR:O	2.07	0.73
1:7:279:THR:OG1	1:7:377:TYR:O	2.07	0.72
1:D:279:THR:OG1	1:D:377:TYR:O	2.07	0.72
1:U:279:THR:OG1	1:U:377:TYR:O	2.06	0.72
1:k:279:THR:OG1	1:k:377:TYR:O	2.07	0.72
1:q:279:THR:OG1	1:q:377:TYR:O	2.06	0.72
1:I:279:THR:OG1	1:I:377:TYR:O	2.07	0.72
1:R:279:THR:OG1	1:R:377:TYR:O	2.06	0.72
1:s:279:THR:OG1	1:s:377:TYR:O	2.06	0.72
1:u:279:THR:OG1	1:u:377:TYR:O	2.07	0.72
1:N:279:THR:OG1	1:N:377:TYR:O	2.07	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:279:THR:OG1	1:i:377:TYR:O	2.07	0.72
1:S:260:GLN:HG3	1:S:260:GLN:O	1.91	0.71
1:V:260:GLN:HG3	1:V:260:GLN:O	1.91	0.71
1:Y:260:GLN:O	1:Y:260:GLN:HG3	1.91	0.71
1:p:260:GLN:HG3	1:p:260:GLN:O	1.91	0.71
1:7:260:GLN:HG3	1:7:260:GLN:O	1.91	0.71
1:c:260:GLN:HG3	1:c:260:GLN:O	1.91	0.71
1:r:260:GLN:HG3	1:r:260:GLN:O	1.91	0.71
1:3:279:THR:OG1	1:3:377:TYR:O	2.07	0.71
1:4:260:GLN:HG3	1:4:260:GLN:O	1.91	0.71
1:K:260:GLN:HG3	1:K:260:GLN:O	1.91	0.71
1:a:260:GLN:O	1:a:260:GLN:HG3	1.91	0.71
1:e:260:GLN:HG3	1:e:260:GLN:O	1.91	0.71
1:5:260:GLN:HG3	1:5:260:GLN:O	1.91	0.71
1:H:260:GLN:HG3	1:H:260:GLN:O	1.91	0.71
1:j:279:THR:OG1	1:j:377:TYR:O	2.07	0.71
1:v:260:GLN:HG3	1:v:260:GLN:O	1.91	0.71
1:3:260:GLN:HG3	1:3:260:GLN:O	1.91	0.71
1:6:260:GLN:O	1:6:260:GLN:HG3	1.91	0.71
1:R:260:GLN:HG3	1:R:260:GLN:O	1.91	0.71
1:S:279:THR:OG1	1:S:377:TYR:O	2.07	0.71
1:W:260:GLN:HG3	1:W:260:GLN:O	1.91	0.71
1:a:279:THR:OG1	1:a:377:TYR:O	2.07	0.71
1:r:279:THR:OG1	1:r:377:TYR:O	2.07	0.71
1:v:279:THR:OG1	1:v:377:TYR:O	2.07	0.71
1:A:260:GLN:O	1:A:260:GLN:HG3	1.91	0.71
1:E:260:GLN:HG3	1:E:260:GLN:O	1.91	0.71
1:J:260:GLN:HG3	1:J:260:GLN:O	1.91	0.71
1:P:279:THR:OG1	1:P:377:TYR:O	2.07	0.71
1:T:260:GLN:O	1:T:260:GLN:HG3	1.91	0.71
1:q:260:GLN:HG3	1:q:260:GLN:O	1.91	0.71
1:A:279:THR:OG1	1:A:377:TYR:O	2.07	0.71
1:L:260:GLN:HG3	1:L:260:GLN:O	1.91	0.71
1:T:279:THR:OG1	1:T:377:TYR:O	2.07	0.71
1:X:260:GLN:HG3	1:X:260:GLN:O	1.91	0.71
1:m:260:GLN:HG3	1:m:260:GLN:O	1.91	0.71
1:2:260:GLN:HG3	1:2:260:GLN:O	1.91	0.71
1:K:279:THR:OG1	1:K:377:TYR:O	2.07	0.70
1:Q:260:GLN:O	1:Q:260:GLN:HG3	1.91	0.70
1:l:260:GLN:O	1:l:260:GLN:HG3	1.91	0.70
1:m:279:THR:OG1	1:m:377:TYR:O	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:260:GLN:HG3	1:o:260:GLN:O	1.91	0.70
1:w:260:GLN:O	1:w:260:GLN:HG3	1.91	0.70
1:x:260:GLN:HG3	1:x:260:GLN:O	1.91	0.70
1:z:260:GLN:HG3	1:z:260:GLN:O	1.91	0.70
1:4:279:THR:OG1	1:4:377:TYR:O	2.07	0.70
1:I:260:GLN:O	1:I:260:GLN:HG3	1.91	0.70
1:b:260:GLN:HG3	1:b:260:GLN:O	1.91	0.70
1:b:279:THR:OG1	1:b:377:TYR:O	2.07	0.70
1:f:279:THR:OG1	1:f:377:TYR:O	2.07	0.70
1:p:279:THR:OG1	1:p:377:TYR:O	2.07	0.70
1:u:260:GLN:HG3	1:u:260:GLN:O	1.91	0.70
1:D:260:GLN:HG3	1:D:260:GLN:O	1.91	0.70
1:O:260:GLN:HG3	1:O:260:GLN:O	1.91	0.70
1:f:260:GLN:HG3	1:f:260:GLN:O	1.91	0.70
1:w:279:THR:OG1	1:w:377:TYR:O	2.07	0.70
1:1:279:THR:OG1	1:1:377:TYR:O	2.06	0.70
1:M:260:GLN:HG3	1:M:260:GLN:O	1.91	0.70
1:V:279:THR:OG1	1:V:377:TYR:O	2.07	0.70
1:X:279:THR:OG1	1:X:377:TYR:O	2.07	0.70
1:o:279:THR:OG1	1:o:377:TYR:O	2.07	0.70
1:y:279:THR:OG1	1:y:377:TYR:O	2.07	0.70
1:G:383:ASN:OD1	1:G:516:ARG:NH2	2.25	0.70
1:T:383:ASN:OD1	1:T:516:ARG:NH2	2.25	0.70
1:U:260:GLN:HG3	1:U:260:GLN:O	1.91	0.70
1:X:383:ASN:OD1	1:X:516:ARG:NH2	2.25	0.70
1:k:260:GLN:HG3	1:k:260:GLN:O	1.91	0.70
1:m:383:ASN:OD1	1:m:516:ARG:NH2	2.25	0.70
1:o:383:ASN:OD1	1:o:516:ARG:NH2	2.25	0.70
1:t:383:ASN:OD1	1:t:516:ARG:NH2	2.25	0.70
1:x:383:ASN:OD1	1:x:516:ARG:NH2	2.25	0.70
1:y:383:ASN:OD1	1:y:516:ARG:NH2	2.25	0.70
1:B:279:THR:OG1	1:B:377:TYR:O	2.06	0.70
1:E:279:THR:OG1	1:E:377:TYR:O	2.07	0.70
1:F:383:ASN:OD1	1:F:516:ARG:NH2	2.25	0.70
1:P:383:ASN:OD1	1:P:516:ARG:NH2	2.25	0.70
1:Q:383:ASN:OD1	1:Q:516:ARG:NH2	2.25	0.70
1:R:383:ASN:OD1	1:R:516:ARG:NH2	2.25	0.70
1:Z:383:ASN:OD1	1:Z:516:ARG:NH2	2.25	0.70
1:b:383:ASN:OD1	1:b:516:ARG:NH2	2.25	0.70
1:j:383:ASN:OD1	1:j:516:ARG:NH2	2.25	0.70
1:p:383:ASN:OD1	1:p:516:ARG:NH2	2.25	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:383:ASN:OD1	1:q:516:ARG:NH2	2.25	0.70
1:s:260:GLN:HG3	1:s:260:GLN:O	1.91	0.70
1:2:383:ASN:OD1	1:2:516:ARG:NH2	2.25	0.70
1:8:383:ASN:OD1	1:8:516:ARG:NH2	2.25	0.70
1:F:279:THR:OG1	1:F:377:TYR:O	2.07	0.70
1:J:383:ASN:OD1	1:J:516:ARG:NH2	2.25	0.70
1:V:383:ASN:OD1	1:V:516:ARG:NH2	2.25	0.70
1:f:383:ASN:OD1	1:f:516:ARG:NH2	2.25	0.70
1:g:279:THR:OG1	1:g:377:TYR:O	2.07	0.70
1:h:260:GLN:HG3	1:h:260:GLN:O	1.91	0.70
1:k:383:ASN:OD1	1:k:516:ARG:NH2	2.25	0.70
1:C:383:ASN:OD1	1:C:516:ARG:NH2	2.25	0.70
1:D:383:ASN:OD1	1:D:516:ARG:NH2	2.25	0.70
1:e:383:ASN:OD1	1:e:516:ARG:NH2	2.25	0.70
1:i:260:GLN:HG3	1:i:260:GLN:O	1.91	0.70
1:r:383:ASN:OD1	1:r:516:ARG:NH2	2.25	0.70
1:t:260:GLN:O	1:t:260:GLN:HG3	1.91	0.70
1:6:383:ASN:OD1	1:6:516:ARG:NH2	2.25	0.70
1:A:383:ASN:OD1	1:A:516:ARG:NH2	2.25	0.70
1:S:383:ASN:OD1	1:S:516:ARG:NH2	2.25	0.70
1:W:383:ASN:OD1	1:W:516:ARG:NH2	2.25	0.70
1:c:383:ASN:OD1	1:c:516:ARG:NH2	2.25	0.70
1:g:383:ASN:OD1	1:g:516:ARG:NH2	2.25	0.70
1:v:383:ASN:OD1	1:v:516:ARG:NH2	2.25	0.70
1:C:279:THR:OG1	1:C:377:TYR:O	2.07	0.70
1:G:260:GLN:HG3	1:G:260:GLN:O	1.91	0.70
1:H:383:ASN:OD1	1:H:516:ARG:NH2	2.25	0.70
1:N:260:GLN:HG3	1:N:260:GLN:O	1.91	0.70
1:Z:260:GLN:HG3	1:Z:260:GLN:O	1.91	0.69
1:a:383:ASN:OD1	1:a:516:ARG:NH2	2.25	0.69
1:g:260:GLN:HG3	1:g:260:GLN:O	1.91	0.69
1:w:383:ASN:OD1	1:w:516:ARG:NH2	2.25	0.69
1:1:260:GLN:O	1:1:260:GLN:HG3	1.91	0.69
1:3:383:ASN:OD1	1:3:516:ARG:NH2	2.25	0.69
1:5:383:ASN:OD1	1:5:516:ARG:NH2	2.25	0.69
1:8:260:GLN:HG3	1:8:260:GLN:O	1.91	0.69
1:B:260:GLN:HG3	1:B:260:GLN:O	1.91	0.69
1:E:383:ASN:OD1	1:E:516:ARG:NH2	2.25	0.69
1:K:383:ASN:OD1	1:K:516:ARG:NH2	2.25	0.69
1:O:383:ASN:OD1	1:O:516:ARG:NH2	2.25	0.69
1:U:383:ASN:OD1	1:U:516:ARG:NH2	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:383:ASN:OD1	1:d:516:ARG:NH2	2.25	0.69
1:l:383:ASN:OD1	1:l:516:ARG:NH2	2.25	0.69
1:n:383:ASN:OD1	1:n:516:ARG:NH2	2.25	0.69
1:C:260:GLN:HG3	1:C:260:GLN:O	1.91	0.69
1:F:260:GLN:HG3	1:F:260:GLN:O	1.91	0.69
1:I:383:ASN:OD1	1:I:516:ARG:NH2	2.25	0.69
1:4:383:ASN:OD1	1:4:516:ARG:NH2	2.25	0.69
1:L:279:THR:OG1	1:L:377:TYR:O	2.06	0.69
1:s:383:ASN:OD1	1:s:516:ARG:NH2	2.25	0.69
1:u:383:ASN:OD1	1:u:516:ARG:NH2	2.25	0.69
1:c:485:CYS:SG	1:c:578:TYR:HB2	2.33	0.69
1:e:485:CYS:SG	1:e:578:TYR:HB2	2.33	0.69
1:n:279:THR:OG1	1:n:377:TYR:O	2.07	0.69
1:y:260:GLN:HG3	1:y:260:GLN:O	1.91	0.69
1:A:485:CYS:SG	1:A:578:TYR:HB2	2.33	0.69
1:E:355:VAL:H	1:E:647:GLN:HE22	1.41	0.69
1:N:226:SER:HG	1:N:319:ASN:H	1.41	0.69
1:N:383:ASN:OD1	1:N:516:ARG:NH2	2.25	0.69
1:P:355:VAL:H	1:P:647:GLN:HE22	1.41	0.69
1:d:260:GLN:O	1:d:260:GLN:HG3	1.91	0.69
1:j:355:VAL:H	1:j:647:GLN:HE22	1.41	0.69
1:v:485:CYS:SG	1:v:578:TYR:HB2	2.33	0.69
1:w:355:VAL:H	1:w:647:GLN:HE22	1.41	0.69
1:z:279:THR:OG1	1:z:377:TYR:O	2.06	0.69
1:H:485:CYS:SG	1:H:578:TYR:HB2	2.33	0.69
1:N:355:VAL:H	1:N:647:GLN:HE22	1.41	0.69
1:U:485:CYS:SG	1:U:578:TYR:HB2	2.33	0.69
1:i:383:ASN:OD1	1:i:516:ARG:NH2	2.25	0.69
1:k:485:CYS:SG	1:k:578:TYR:HB2	2.33	0.69
1:s:485:CYS:SG	1:s:578:TYR:HB2	2.33	0.69
1:5:485:CYS:SG	1:5:578:TYR:HB2	2.33	0.69
1:D:485:CYS:SG	1:D:578:TYR:HB2	2.33	0.69
1:F:485:CYS:SG	1:F:578:TYR:HB2	2.33	0.69
1:G:485:CYS:SG	1:G:578:TYR:HB2	2.33	0.69
1:I:485:CYS:SG	1:I:578:TYR:HB2	2.33	0.69
1:M:355:VAL:H	1:M:647:GLN:HE22	1.41	0.69
1:P:485:CYS:SG	1:P:578:TYR:HB2	2.33	0.69
1:V:485:CYS:SG	1:V:578:TYR:HB2	2.33	0.69
1:Y:485:CYS:SG	1:Y:578:TYR:HB2	2.33	0.69
1:d:279:THR:OG1	1:d:377:TYR:O	2.07	0.69
1:h:355:VAL:H	1:h:647:GLN:HE22	1.41	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:383:ASN:OD1	1:h:516:ARG:NH2	2.25	0.69
1:i:355:VAL:H	1:i:647:GLN:HE22	1.41	0.69
1:j:485:CYS:SG	1:j:578:TYR:HB2	2.33	0.69
1:n:260:GLN:HG3	1:n:260:GLN:O	1.91	0.69
1:p:485:CYS:SG	1:p:578:TYR:HB2	2.33	0.69
1:t:485:CYS:SG	1:t:578:TYR:HB2	2.33	0.69
1:u:485:CYS:SG	1:u:578:TYR:HB2	2.33	0.69
1:y:485:CYS:SG	1:y:578:TYR:HB2	2.33	0.69
1:z:383:ASN:OD1	1:z:516:ARG:NH2	2.25	0.69
1:7:485:CYS:SG	1:7:578:TYR:HB2	2.33	0.69
1:C:355:VAL:H	1:C:647:GLN:HE22	1.41	0.69
1:L:383:ASN:OD1	1:L:516:ARG:NH2	2.25	0.69
1:M:383:ASN:OD1	1:M:516:ARG:NH2	2.25	0.69
1:g:355:VAL:H	1:g:647:GLN:HE22	1.41	0.69
1:n:485:CYS:SG	1:n:578:TYR:HB2	2.33	0.69
1:M:485:CYS:SG	1:M:578:TYR:HB2	2.33	0.69
1:Y:383:ASN:OD1	1:Y:516:ARG:NH2	2.25	0.69
1:f:355:VAL:H	1:f:647:GLN:HE22	1.41	0.69
1:f:485:CYS:SG	1:f:578:TYR:HB2	2.33	0.69
1:h:485:CYS:SG	1:h:578:TYR:HB2	2.33	0.69
1:m:355:VAL:H	1:m:647:GLN:HE22	1.41	0.69
1:2:485:CYS:SG	1:2:578:TYR:HB2	2.33	0.69
1:4:355:VAL:H	1:4:647:GLN:HE22	1.41	0.69
1:F:226:SER:HG	1:F:319:ASN:H	1.41	0.68
1:J:485:CYS:SG	1:J:578:TYR:HB2	2.33	0.68
1:K:355:VAL:H	1:K:647:GLN:HE22	1.41	0.68
1:P:260:GLN:HG3	1:P:260:GLN:O	1.91	0.68
1:b:355:VAL:H	1:b:647:GLN:HE22	1.41	0.68
1:h:226:SER:HG	1:h:319:ASN:H	1.41	0.68
1:7:383:ASN:OD1	1:7:516:ARG:NH2	2.25	0.68
1:8:485:CYS:SG	1:8:578:TYR:HB2	2.33	0.68
1:B:383:ASN:OD1	1:B:516:ARG:NH2	2.25	0.68
1:Q:485:CYS:SG	1:Q:578:TYR:HB2	2.33	0.68
1:T:355:VAL:H	1:T:647:GLN:HE22	1.41	0.68
1:Z:485:CYS:SG	1:Z:578:TYR:HB2	2.33	0.68
1:b:485:CYS:SG	1:b:578:TYR:HB2	2.33	0.68
1:d:485:CYS:SG	1:d:578:TYR:HB2	2.33	0.68
1:k:355:VAL:H	1:k:647:GLN:HE22	1.41	0.68
1:6:485:CYS:SG	1:6:578:TYR:HB2	2.33	0.68
1:D:355:VAL:H	1:D:647:GLN:HE22	1.41	0.68
1:O:485:CYS:SG	1:O:578:TYR:HB2	2.33	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:485:CYS:SG	1:x:578:TYR:HB2	2.33	0.68
1:L:485:CYS:SG	1:L:578:TYR:HB2	2.33	0.68
1:R:485:CYS:SG	1:R:578:TYR:HB2	2.33	0.68
1:j:260:GLN:HG3	1:j:260:GLN:O	1.91	0.68
1:l:485:CYS:SG	1:l:578:TYR:HB2	2.33	0.68
1:m:485:CYS:SG	1:m:578:TYR:HB2	2.33	0.68
1:q:485:CYS:SG	1:q:578:TYR:HB2	2.33	0.68
1:1:383:ASN:OD1	1:1:516:ARG:NH2	2.25	0.68
1:B:485:CYS:SG	1:B:578:TYR:HB2	2.33	0.68
1:G:355:VAL:H	1:G:647:GLN:HE22	1.41	0.68
1:M:226:SER:HG	1:M:319:ASN:H	1.41	0.68
1:U:355:VAL:H	1:U:647:GLN:HE22	1.41	0.68
1:W:485:CYS:SG	1:W:578:TYR:HB2	2.33	0.68
1:n:355:VAL:H	1:n:647:GLN:HE22	1.41	0.68
1:u:355:VAL:H	1:u:647:GLN:HE22	1.41	0.68
1:1:485:CYS:SG	1:1:578:TYR:HB2	2.33	0.68
1:I:355:VAL:H	1:I:647:GLN:HE22	1.41	0.68
1:d:355:VAL:H	1:d:647:GLN:HE22	1.41	0.68
1:o:485:CYS:SG	1:o:578:TYR:HB2	2.33	0.68
1:t:355:VAL:H	1:t:647:GLN:HE22	1.41	0.68
1:x:279:THR:OG1	1:x:377:TYR:O	2.07	0.68
1:z:485:CYS:SG	1:z:578:TYR:HB2	2.33	0.68
1:7:355:VAL:H	1:7:647:GLN:HE22	1.41	0.68
1:S:485:CYS:SG	1:S:578:TYR:HB2	2.33	0.68
1:X:485:CYS:SG	1:X:578:TYR:HB2	2.33	0.68
1:Y:355:VAL:H	1:Y:647:GLN:HE22	1.41	0.68
1:s:355:VAL:H	1:s:647:GLN:HE22	1.41	0.68
1:H:355:VAL:H	1:H:647:GLN:HE22	1.41	0.68
1:T:485:CYS:SG	1:T:578:TYR:HB2	2.33	0.68
1:r:485:CYS:SG	1:r:578:TYR:HB2	2.33	0.68
1:3:485:CYS:SG	1:3:578:TYR:HB2	2.33	0.68
1:K:485:CYS:SG	1:K:578:TYR:HB2	2.33	0.68
1:a:485:CYS:SG	1:a:578:TYR:HB2	2.33	0.68
1:c:355:VAL:H	1:c:647:GLN:HE22	1.41	0.68
1:4:485:CYS:SG	1:4:578:TYR:HB2	2.33	0.68
1:5:355:VAL:H	1:5:647:GLN:HE22	1.41	0.68
1:Q:279:THR:OG1	1:Q:377:TYR:O	2.07	0.68
1:e:355:VAL:H	1:e:647:GLN:HE22	1.41	0.68
1:g:485:CYS:SG	1:g:578:TYR:HB2	2.33	0.68
1:C:485:CYS:SG	1:C:578:TYR:HB2	2.33	0.67
1:F:355:VAL:H	1:F:647:GLN:HE22	1.41	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:485:CYS:SG	1:N:578:TYR:HB2	2.33	0.67
1:O:279:THR:OG1	1:O:377:TYR:O	2.07	0.67
1:O:355:VAL:H	1:O:647:GLN:HE22	1.41	0.67
1:i:485:CYS:SG	1:i:578:TYR:HB2	2.33	0.67
1:l:279:THR:OG1	1:l:377:TYR:O	2.07	0.67
1:E:485:CYS:SG	1:E:578:TYR:HB2	2.33	0.67
1:t:279:THR:OG1	1:t:377:TYR:O	2.07	0.67
1:y:355:VAL:H	1:y:647:GLN:HE22	1.41	0.67
1:R:355:VAL:H	1:R:647:GLN:HE22	1.41	0.67
1:l:355:VAL:H	1:l:647:GLN:HE22	1.41	0.67
1:2:355:VAL:H	1:2:647:GLN:HE22	1.41	0.67
1:H:279:THR:OG1	1:H:377:TYR:O	2.07	0.67
1:k:226:SER:HG	1:k:319:ASN:H	1.41	0.67
1:w:485:CYS:SG	1:w:578:TYR:HB2	2.33	0.67
1:6:355:VAL:H	1:6:647:GLN:HE22	1.41	0.67
1:W:355:VAL:H	1:W:647:GLN:HE22	1.41	0.67
1:1:355:VAL:H	1:1:647:GLN:HE22	1.41	0.67
1:5:279:THR:OG1	1:5:377:TYR:O	2.07	0.67
1:G:279:THR:OG1	1:G:377:TYR:O	2.07	0.67
1:J:355:VAL:H	1:J:647:GLN:HE22	1.41	0.67
1:q:355:VAL:H	1:q:647:GLN:HE22	1.41	0.67
1:f:226:SER:HG	1:f:319:ASN:H	1.41	0.67
1:2:279:THR:OG1	1:2:377:TYR:O	2.07	0.67
1:B:355:VAL:H	1:B:647:GLN:HE22	1.41	0.67
1:x:355:VAL:H	1:x:647:GLN:HE22	1.41	0.67
1:D:226:SER:HG	1:D:319:ASN:H	1.41	0.67
1:X:355:VAL:H	1:X:647:GLN:HE22	1.41	0.67
1:o:355:VAL:H	1:o:647:GLN:HE22	1.41	0.67
1:r:355:VAL:H	1:r:647:GLN:HE22	1.41	0.67
1:Q:355:VAL:H	1:Q:647:GLN:HE22	1.41	0.66
1:a:226:SER:HG	1:a:319:ASN:H	1.43	0.66
1:D:499:ASN:HD22	1:P:591:ALA:HA	1.60	0.66
1:J:279:THR:OG1	1:J:377:TYR:O	2.07	0.66
1:S:355:VAL:H	1:S:647:GLN:HE22	1.41	0.66
1:3:355:VAL:H	1:3:647:GLN:HE22	1.41	0.66
1:V:355:VAL:H	1:V:647:GLN:HE22	1.41	0.66
1:a:355:VAL:H	1:a:647:GLN:HE22	1.41	0.66
1:p:355:VAL:H	1:p:647:GLN:HE22	1.41	0.66
1:z:355:VAL:H	1:z:647:GLN:HE22	1.41	0.66
1:Z:355:VAL:H	1:Z:647:GLN:HE22	1.41	0.66
1:3:226:SER:HG	1:3:319:ASN:H	1.41	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:355:VAL:H	1:L:647:GLN:HE22	1.41	0.66
1:8:355:VAL:H	1:8:647:GLN:HE22	1.41	0.66
1:N:591:ALA:HA	1:P:499:ASN:HD22	1.61	0.65
1:v:355:VAL:H	1:v:647:GLN:HE22	1.41	0.65
1:A:355:VAL:H	1:A:647:GLN:HE22	1.41	0.65
1:U:499:ASN:OD1	1:U:500:ASN:N	2.30	0.65
1:s:499:ASN:OD1	1:s:500:ASN:N	2.30	0.65
1:f:499:ASN:OD1	1:f:500:ASN:N	2.30	0.65
1:2:499:ASN:OD1	1:2:500:ASN:N	2.30	0.65
1:C:499:ASN:OD1	1:C:500:ASN:N	2.30	0.65
1:J:499:ASN:OD1	1:J:500:ASN:N	2.30	0.65
1:K:499:ASN:OD1	1:K:500:ASN:N	2.30	0.65
1:Y:499:ASN:OD1	1:Y:500:ASN:N	2.30	0.65
1:g:499:ASN:OD1	1:g:500:ASN:N	2.30	0.65
1:n:499:ASN:OD1	1:n:500:ASN:N	2.30	0.65
1:q:499:ASN:OD1	1:q:500:ASN:N	2.30	0.65
1:7:499:ASN:OD1	1:7:500:ASN:N	2.30	0.65
1:B:499:ASN:OD1	1:B:500:ASN:N	2.30	0.64
1:R:499:ASN:OD1	1:R:500:ASN:N	2.30	0.64
1:Z:499:ASN:OD1	1:Z:500:ASN:N	2.30	0.64
1:b:499:ASN:OD1	1:b:500:ASN:N	2.30	0.64
1:d:499:ASN:OD1	1:d:500:ASN:N	2.30	0.64
1:4:499:ASN:OD1	1:4:500:ASN:N	2.30	0.64
1:L:499:ASN:OD1	1:L:500:ASN:N	2.30	0.64
1:Q:499:ASN:OD1	1:Q:500:ASN:N	2.30	0.64
1:X:499:ASN:OD1	1:X:500:ASN:N	2.30	0.64
1:k:499:ASN:OD1	1:k:500:ASN:N	2.30	0.64
1:o:499:ASN:OD1	1:o:500:ASN:N	2.30	0.64
1:1:499:ASN:OD1	1:1:500:ASN:N	2.30	0.64
1:8:499:ASN:OD1	1:8:500:ASN:N	2.30	0.64
1:D:499:ASN:OD1	1:D:500:ASN:N	2.30	0.64
1:I:226:SER:HG	1:I:319:ASN:H	1.45	0.64
1:x:499:ASN:OD1	1:x:500:ASN:N	2.30	0.64
1:z:499:ASN:OD1	1:z:500:ASN:N	2.30	0.64
1:h:499:ASN:OD1	1:h:500:ASN:N	2.30	0.64
1:G:499:ASN:OD1	1:G:500:ASN:N	2.30	0.64
1:a:499:ASN:OD1	1:a:500:ASN:N	2.30	0.64
1:3:499:ASN:OD1	1:3:500:ASN:N	2.30	0.64
1:6:499:ASN:OD1	1:6:500:ASN:N	2.30	0.64
1:M:499:ASN:OD1	1:M:500:ASN:N	2.30	0.64
1:S:499:ASN:OD1	1:S:500:ASN:N	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:499:ASN:OD1	1:W:500:ASN:N	2.30	0.64
1:p:499:ASN:OD1	1:p:500:ASN:N	2.30	0.64
1:r:499:ASN:OD1	1:r:500:ASN:N	2.30	0.64
1:t:499:ASN:OD1	1:t:500:ASN:N	2.30	0.64
1:5:499:ASN:OD1	1:5:500:ASN:N	2.30	0.64
1:P:499:ASN:OD1	1:P:500:ASN:N	2.30	0.64
1:V:499:ASN:OD1	1:V:500:ASN:N	2.30	0.64
1:j:499:ASN:OD1	1:j:500:ASN:N	2.30	0.64
1:u:499:ASN:OD1	1:u:500:ASN:N	2.30	0.64
1:w:499:ASN:OD1	1:w:500:ASN:N	2.30	0.64
1:E:499:ASN:OD1	1:E:500:ASN:N	2.30	0.64
1:H:499:ASN:OD1	1:H:500:ASN:N	2.30	0.64
1:T:499:ASN:OD1	1:T:500:ASN:N	2.30	0.64
1:e:499:ASN:OD1	1:e:500:ASN:N	2.30	0.64
1:l:499:ASN:OD1	1:l:500:ASN:N	2.30	0.64
1:m:499:ASN:OD1	1:m:500:ASN:N	2.30	0.64
1:t:226:SER:HG	1:t:319:ASN:H	1.45	0.64
1:F:499:ASN:OD1	1:F:500:ASN:N	2.30	0.64
1:I:499:ASN:OD1	1:I:500:ASN:N	2.30	0.64
1:O:499:ASN:OD1	1:O:500:ASN:N	2.30	0.64
1:c:499:ASN:OD1	1:c:500:ASN:N	2.30	0.64
1:T:226:SER:HG	1:T:319:ASN:H	1.44	0.63
1:i:499:ASN:OD1	1:i:500:ASN:N	2.30	0.63
1:y:499:ASN:OD1	1:y:500:ASN:N	2.30	0.63
1:E:226:SER:HG	1:E:319:ASN:H	1.45	0.63
1:G:226:SER:HG	1:G:319:ASN:H	1.45	0.63
1:N:499:ASN:OD1	1:N:500:ASN:N	2.30	0.63
1:A:499:ASN:OD1	1:A:500:ASN:N	2.30	0.63
1:m:226:SER:HG	1:m:319:ASN:H	1.44	0.63
1:w:226:SER:HG	1:w:319:ASN:H	1.45	0.63
1:N:430:GLN:HE22	1:P:353:PRO:HB3	1.64	0.63
1:v:499:ASN:OD1	1:v:500:ASN:N	2.30	0.63
1:4:226:SER:HG	1:4:319:ASN:H	1.45	0.63
1:K:226:SER:HG	1:K:319:ASN:H	1.45	0.63
1:v:226:SER:HG	1:v:319:ASN:H	1.45	0.63
1:A:226:SER:HG	1:A:319:ASN:H	1.45	0.62
1:g:409:ASN:ND2	1:k:224:ASN:OD1	2.29	0.62
1:D:353:PRO:HB3	1:P:430:GLN:HE22	1.63	0.62
1:X:224:ASN:OD1	1:Y:409:ASN:ND2	2.29	0.62
1:d:356:LEU:HD13	1:d:647:GLN:HG2	1.82	0.62
1:k:356:LEU:HD13	1:k:647:GLN:HG2	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:356:LEU:HD13	1:n:647:GLN:HG2	1.82	0.62
1:w:356:LEU:HD13	1:w:647:GLN:HG2	1.82	0.62
1:C:409:ASN:ND2	1:D:224:ASN:OD1	2.30	0.62
1:D:356:LEU:HD13	1:D:647:GLN:HG2	1.82	0.62
1:E:356:LEU:HD13	1:E:647:GLN:HG2	1.82	0.62
1:F:356:LEU:HD13	1:F:647:GLN:HG2	1.82	0.62
1:y:356:LEU:HD13	1:y:647:GLN:HG2	1.82	0.62
1:3:356:LEU:HD13	1:3:647:GLN:HG2	1.82	0.62
1:6:226:SER:HG	1:6:319:ASN:H	1.45	0.62
1:C:218:GLY:HA3	1:C:409:ASN:HD22	1.65	0.62
1:H:356:LEU:HD13	1:H:647:GLN:HG2	1.82	0.62
1:O:251:PRO:HB3	1:P:659:PRO:HG2	1.82	0.62
1:W:226:SER:HG	1:W:319:ASN:H	1.45	0.62
1:a:356:LEU:HD13	1:a:647:GLN:HG2	1.82	0.62
1:o:224:ASN:OD1	1:7:409:ASN:ND2	2.29	0.62
1:s:356:LEU:HD13	1:s:647:GLN:HG2	1.82	0.62
1:5:356:LEU:HD13	1:5:647:GLN:HG2	1.82	0.62
1:I:356:LEU:HD13	1:I:647:GLN:HG2	1.82	0.62
1:T:356:LEU:HD13	1:T:647:GLN:HG2	1.82	0.62
1:U:356:LEU:HD13	1:U:647:GLN:HG2	1.82	0.62
1:g:218:GLY:HA3	1:g:409:ASN:HD22	1.65	0.62
1:o:356:LEU:HD13	1:o:647:GLN:HG2	1.82	0.62
1:p:356:LEU:HD13	1:p:647:GLN:HG2	1.82	0.62
1:G:356:LEU:HD13	1:G:647:GLN:HG2	1.82	0.62
1:J:356:LEU:HD13	1:J:647:GLN:HG2	1.82	0.62
1:L:218:GLY:HA3	1:L:409:ASN:HD22	1.65	0.62
1:m:356:LEU:HD13	1:m:647:GLN:HG2	1.82	0.62
1:t:356:LEU:HD13	1:t:647:GLN:HG2	1.82	0.62
1:u:356:LEU:HD13	1:u:647:GLN:HG2	1.82	0.62
1:y:218:GLY:HA3	1:y:409:ASN:HD22	1.65	0.62
1:F:218:GLY:HA3	1:F:409:ASN:HD22	1.65	0.62
1:N:218:GLY:HA3	1:N:409:ASN:HD22	1.65	0.62
1:V:356:LEU:HD13	1:V:647:GLN:HG2	1.82	0.62
1:X:356:LEU:HD13	1:X:647:GLN:HG2	1.82	0.62
1:i:218:GLY:HA3	1:i:409:ASN:HD22	1.65	0.62
1:z:218:GLY:HA3	1:z:409:ASN:HD22	1.65	0.62
1:2:356:LEU:HD13	1:2:647:GLN:HG2	1.82	0.62
1:B:218:GLY:HA3	1:B:409:ASN:HD22	1.65	0.61
1:Y:226:SER:HG	1:Y:319:ASN:H	1.45	0.61
1:4:218:GLY:HA3	1:4:409:ASN:HD22	1.65	0.61
1:K:218:GLY:HA3	1:K:409:ASN:HD22	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:283:TYR:HB3	1:M:649:LEU:HD23	1.83	0.61
1:V:218:GLY:HA3	1:V:409:ASN:HD22	1.65	0.61
1:h:224:ASN:OD1	1:i:409:ASN:ND2	2.29	0.61
1:1:218:GLY:HA3	1:1:409:ASN:HD22	1.65	0.61
1:7:218:GLY:HA3	1:7:409:ASN:HD22	1.65	0.61
1:E:218:GLY:HA3	1:E:409:ASN:HD22	1.65	0.61
1:Y:218:GLY:HA3	1:Y:409:ASN:HD22	1.65	0.61
1:h:283:TYR:HB3	1:h:649:LEU:HD23	1.83	0.61
1:p:218:GLY:HA3	1:p:409:ASN:HD22	1.65	0.61
1:s:218:GLY:HA3	1:s:409:ASN:HD22	1.65	0.61
1:y:564:GLU:OE2	1:y:614:TYR:OH	2.15	0.61
1:7:226:SER:HG	1:7:319:ASN:H	1.45	0.61
1:O:283:TYR:HB3	1:O:649:LEU:HD23	1.83	0.61
1:U:218:GLY:HA3	1:U:409:ASN:HD22	1.65	0.61
1:W:283:TYR:HB3	1:W:649:LEU:HD23	1.83	0.61
1:i:226:SER:HG	1:i:319:ASN:H	1.48	0.61
1:l:283:TYR:HB3	1:l:649:LEU:HD23	1.83	0.61
1:w:218:GLY:HA3	1:w:409:ASN:HD22	1.65	0.61
1:6:283:TYR:HB3	1:6:649:LEU:HD23	1.83	0.61
1:6:356:LEU:HD13	1:6:647:GLN:HG2	1.82	0.61
1:A:430:GLN:HE22	1:G:353:PRO:HB3	1.66	0.61
1:M:218:GLY:HA3	1:M:409:ASN:HD22	1.65	0.61
1:M:356:LEU:HD13	1:M:647:GLN:HG2	1.82	0.61
1:W:356:LEU:HD13	1:W:647:GLN:HG2	1.82	0.61
1:X:218:GLY:HA3	1:X:409:ASN:HD22	1.65	0.61
1:e:218:GLY:HA3	1:e:409:ASN:HD22	1.65	0.61
1:g:356:LEU:HD13	1:g:647:GLN:HG2	1.82	0.61
1:o:218:GLY:HA3	1:o:409:ASN:HD22	1.65	0.61
1:1:356:LEU:HD13	1:1:647:GLN:HG2	1.82	0.61
1:B:356:LEU:HD13	1:B:647:GLN:HG2	1.82	0.61
1:C:356:LEU:HD13	1:C:647:GLN:HG2	1.82	0.61
1:G:430:GLN:HE22	1:I:353:PRO:HB3	1.66	0.61
1:Q:283:TYR:HB3	1:Q:649:LEU:HD23	1.82	0.61
1:h:356:LEU:HD13	1:h:647:GLN:HG2	1.82	0.61
1:m:591:ALA:HA	1:n:499:ASN:HD22	1.66	0.61
1:t:430:GLN:HE22	1:u:353:PRO:HB3	1.66	0.61
1:v:356:LEU:HD13	1:v:647:GLN:HG2	1.82	0.61
1:8:356:LEU:HD13	1:8:647:GLN:HG2	1.82	0.61
1:A:218:GLY:HA3	1:A:409:ASN:HD22	1.65	0.61
1:A:356:LEU:HD13	1:A:647:GLN:HG2	1.82	0.61
1:C:591:ALA:HA	1:b:499:ASN:HD22	1.66	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:353:PRO:HB3	1:Y:430:GLN:HE22	1.66	0.61
1:K:430:GLN:HE22	1:a:353:PRO:HB3	1.66	0.61
1:R:356:LEU:HD13	1:R:647:GLN:HG2	1.82	0.61
1:S:218:GLY:HA3	1:S:409:ASN:HD22	1.65	0.61
1:T:591:ALA:HA	1:d:499:ASN:HD22	1.66	0.61
1:c:218:GLY:HA3	1:c:409:ASN:HD22	1.65	0.61
1:c:353:PRO:HB3	1:p:430:GLN:HE22	1.66	0.61
1:f:499:ASN:HD22	1:g:591:ALA:HA	1.66	0.61
1:h:218:GLY:HA3	1:h:409:ASN:HD22	1.65	0.61
1:l:356:LEU:HD13	1:l:647:GLN:HG2	1.82	0.61
1:r:218:GLY:HA3	1:r:409:ASN:HD22	1.65	0.61
1:t:283:TYR:HB3	1:t:649:LEU:HD23	1.83	0.61
1:t:353:PRO:HB3	1:v:430:GLN:HE22	1.66	0.61
1:3:353:PRO:HB3	1:4:430:GLN:HE22	1.66	0.61
1:E:353:PRO:HB3	1:F:430:GLN:HE22	1.66	0.61
1:G:224:ASN:OD1	1:W:409:ASN:ND2	2.29	0.61
1:G:283:TYR:HB3	1:G:649:LEU:HD23	1.83	0.61
1:K:353:PRO:HB3	1:8:430:GLN:HE22	1.66	0.61
1:S:283:TYR:HB3	1:S:649:LEU:HD23	1.83	0.61
1:S:356:LEU:HD13	1:S:647:GLN:HG2	1.82	0.61
1:U:283:TYR:HB3	1:U:649:LEU:HD23	1.83	0.61
1:V:430:GLN:HE22	1:e:353:PRO:HB3	1.66	0.61
1:Z:356:LEU:HD13	1:Z:647:GLN:HG2	1.82	0.61
1:q:356:LEU:HD13	1:q:647:GLN:HG2	1.82	0.61
1:v:218:GLY:HA3	1:v:409:ASN:HD22	1.65	0.61
1:z:356:LEU:HD13	1:z:647:GLN:HG2	1.82	0.61
1:5:283:TYR:HB3	1:5:649:LEU:HD23	1.83	0.61
1:5:353:PRO:HB3	1:7:430:GLN:HE22	1.66	0.61
1:C:612:ASP:OD1	1:C:613:VAL:N	2.34	0.61
1:H:283:TYR:HB3	1:H:649:LEU:HD23	1.83	0.61
1:L:356:LEU:HD13	1:L:647:GLN:HG2	1.82	0.61
1:O:612:ASP:OD1	1:O:613:VAL:N	2.34	0.61
1:V:283:TYR:HB3	1:V:649:LEU:HD23	1.82	0.61
1:g:612:ASP:OD1	1:g:613:VAL:N	2.34	0.61
1:r:283:TYR:HB3	1:r:649:LEU:HD23	1.83	0.61
1:r:356:LEU:HD13	1:r:647:GLN:HG2	1.82	0.61
1:s:283:TYR:HB3	1:s:649:LEU:HD23	1.83	0.61
1:t:218:GLY:HA3	1:t:409:ASN:HD22	1.65	0.61
1:w:353:PRO:HB3	1:y:430:GLN:HE22	1.66	0.61
1:w:430:GLN:HE22	1:x:353:PRO:HB3	1.66	0.61
1:x:283:TYR:HB3	1:x:649:LEU:HD23	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:218:GLY:HA3	1:3:409:ASN:HD22	1.65	0.61
1:3:224:ASN:OD1	1:8:409:ASN:ND2	2.29	0.61
1:B:430:GLN:HE22	1:J:353:PRO:HB3	1.66	0.61
1:E:430:GLN:HE22	1:Q:353:PRO:HB3	1.66	0.61
1:F:612:ASP:OD1	1:F:613:VAL:N	2.34	0.61
1:O:356:LEU:HD13	1:O:647:GLN:HG2	1.82	0.61
1:T:283:TYR:HB3	1:T:649:LEU:HD23	1.82	0.61
1:V:353:PRO:HB3	1:X:430:GLN:HE22	1.66	0.61
1:Z:409:ASN:ND2	1:a:224:ASN:OD1	2.29	0.61
1:Z:430:GLN:HE22	1:4:353:PRO:HB3	1.66	0.61
1:c:283:TYR:HB3	1:c:649:LEU:HD23	1.83	0.61
1:i:353:PRO:HB3	1:k:430:GLN:HE22	1.66	0.61
1:j:283:TYR:HB3	1:j:649:LEU:HD23	1.83	0.61
1:l:218:GLY:HA3	1:l:409:ASN:HD22	1.65	0.61
1:l:612:ASP:OD1	1:l:613:VAL:N	2.34	0.61
1:m:283:TYR:HB3	1:m:649:LEU:HD23	1.82	0.61
1:o:430:GLN:HE22	1:p:353:PRO:HB3	1.66	0.61
1:o:612:ASP:OD1	1:o:613:VAL:N	2.34	0.61
1:p:283:TYR:HB3	1:p:649:LEU:HD23	1.82	0.61
1:q:218:GLY:HA3	1:q:409:ASN:HD22	1.65	0.61
1:q:353:PRO:HB3	1:s:430:GLN:HE22	1.66	0.61
1:y:612:ASP:OD1	1:y:613:VAL:N	2.34	0.61
1:1:283:TYR:HB3	1:1:649:LEU:HD23	1.83	0.61
1:1:430:GLN:HE22	1:2:353:PRO:HB3	1.66	0.61
1:B:283:TYR:HB3	1:B:649:LEU:HD23	1.83	0.60
1:G:218:GLY:HA3	1:G:409:ASN:HD22	1.65	0.60
1:K:612:ASP:OD1	1:K:613:VAL:N	2.34	0.60
1:N:356:LEU:HD13	1:N:647:GLN:HG2	1.82	0.60
1:O:218:GLY:HA3	1:O:409:ASN:HD22	1.65	0.60
1:R:353:PRO:HB3	1:U:430:GLN:HE22	1.66	0.60
1:S:430:GLN:HE22	1:U:353:PRO:HB3	1.66	0.60
1:T:218:GLY:HA3	1:T:409:ASN:HD22	1.65	0.60
1:V:591:ALA:HA	1:e:499:ASN:HD22	1.66	0.60
1:X:283:TYR:HB3	1:X:649:LEU:HD23	1.83	0.60
1:X:612:ASP:OD1	1:X:613:VAL:N	2.34	0.60
1:a:218:GLY:HA3	1:a:409:ASN:HD22	1.65	0.60
1:c:612:ASP:OD1	1:c:613:VAL:N	2.34	0.60
1:e:224:ASN:OD1	1:h:409:ASN:ND2	2.29	0.60
1:f:283:TYR:HB3	1:f:649:LEU:HD23	1.83	0.60
1:t:224:ASN:OD1	1:6:409:ASN:ND2	2.29	0.60
1:x:612:ASP:OD1	1:x:613:VAL:N	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:612:ASP:OD1	1:3:613:VAL:N	2.34	0.60
1:7:612:ASP:OD1	1:7:613:VAL:N	2.34	0.60
1:A:612:ASP:OD1	1:A:613:VAL:N	2.34	0.60
1:B:353:PRO:HB3	1:L:430:GLN:HE22	1.66	0.60
1:F:224:ASN:OD1	1:G:409:ASN:ND2	2.29	0.60
1:F:499:ASN:HD22	1:Q:591:ALA:HA	1.66	0.60
1:M:499:ASN:HD22	1:b:591:ALA:HA	1.67	0.60
1:P:283:TYR:HB3	1:P:649:LEU:HD23	1.83	0.60
1:Q:356:LEU:HD13	1:Q:647:GLN:HG2	1.82	0.60
1:Q:612:ASP:OD1	1:Q:613:VAL:N	2.34	0.60
1:R:218:GLY:HA3	1:R:409:ASN:HD22	1.65	0.60
1:Y:612:ASP:OD1	1:Y:613:VAL:N	2.34	0.60
1:a:612:ASP:OD1	1:a:613:VAL:N	2.34	0.60
1:b:218:GLY:HA3	1:b:409:ASN:HD22	1.65	0.60
1:c:499:ASN:HD22	1:p:591:ALA:HA	1.66	0.60
1:d:591:ALA:HA	1:l:499:ASN:HD22	1.66	0.60
1:e:612:ASP:OD1	1:e:613:VAL:N	2.34	0.60
1:i:356:LEU:HD13	1:i:647:GLN:HG2	1.82	0.60
1:j:356:LEU:HD13	1:j:647:GLN:HG2	1.82	0.60
1:o:283:TYR:HB3	1:o:649:LEU:HD23	1.83	0.60
1:r:430:GLN:HE22	1:s:353:PRO:HB3	1.66	0.60
1:t:612:ASP:OD1	1:t:613:VAL:N	2.34	0.60
1:x:356:LEU:HD13	1:x:647:GLN:HG2	1.82	0.60
1:4:612:ASP:OD1	1:4:613:VAL:N	2.34	0.60
1:C:499:ASN:HD22	1:M:591:ALA:HA	1.66	0.60
1:E:499:ASN:HD22	1:F:591:ALA:HA	1.66	0.60
1:E:591:ALA:HA	1:Q:499:ASN:HD22	1.66	0.60
1:G:612:ASP:OD1	1:G:613:VAL:N	2.34	0.60
1:K:499:ASN:HD22	1:8:591:ALA:HA	1.66	0.60
1:K:591:ALA:HA	1:a:499:ASN:HD22	1.66	0.60
1:M:224:ASN:OD1	1:N:409:ASN:ND2	2.29	0.60
1:M:409:ASN:ND2	1:c:224:ASN:OD1	2.29	0.60
1:P:356:LEU:HD13	1:P:647:GLN:HG2	1.82	0.60
1:Z:218:GLY:HA3	1:Z:409:ASN:HD22	1.65	0.60
1:Z:353:PRO:HB3	1:3:430:GLN:HE22	1.66	0.60
1:a:283:TYR:HB3	1:a:649:LEU:HD23	1.83	0.60
1:b:283:TYR:HB3	1:b:649:LEU:HD23	1.83	0.60
1:c:356:LEU:HD13	1:c:647:GLN:HG2	1.82	0.60
1:d:612:ASP:OD1	1:d:613:VAL:N	2.34	0.60
1:e:283:TYR:HB3	1:e:649:LEU:HD23	1.83	0.60
1:f:591:ALA:HA	1:h:499:ASN:HD22	1.67	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:499:ASN:HD22	1:h:591:ALA:HA	1.66	0.60
1:j:218:GLY:HA3	1:j:409:ASN:HD22	1.65	0.60
1:j:591:ALA:HA	1:k:499:ASN:HD22	1.66	0.60
1:j:659:PRO:HG2	1:l:251:PRO:HB3	1.84	0.60
1:k:218:GLY:HA3	1:k:409:ASN:HD22	1.65	0.60
1:m:218:GLY:HA3	1:m:409:ASN:HD22	1.65	0.60
1:n:612:ASP:OD1	1:n:613:VAL:N	2.34	0.60
1:v:612:ASP:OD1	1:v:613:VAL:N	2.34	0.60
1:C:659:PRO:HG2	1:D:251:PRO:HB3	1.84	0.60
1:F:353:PRO:HB3	1:Q:430:GLN:HE22	1.66	0.60
1:F:409:ASN:ND2	1:R:224:ASN:OD1	2.29	0.60
1:K:356:LEU:HD13	1:K:647:GLN:HG2	1.82	0.60
1:O:499:ASN:HD22	1:n:591:ALA:HA	1.66	0.60
1:S:612:ASP:OD1	1:S:613:VAL:N	2.34	0.60
1:V:236:LEU:HD11	1:V:239[B]:ARG:HH11	1.67	0.60
1:V:499:ASN:HD22	1:X:591:ALA:HA	1.66	0.60
1:X:499:ASN:HD22	1:e:591:ALA:HA	1.67	0.60
1:c:591:ALA:HA	1:o:499:ASN:HD22	1.67	0.60
1:e:356:LEU:HD13	1:e:647:GLN:HG2	1.82	0.60
1:f:356:LEU:HD13	1:f:647:GLN:HG2	1.82	0.60
1:g:224:ASN:OD1	1:1:409:ASN:ND2	2.30	0.60
1:m:612:ASP:OD1	1:m:613:VAL:N	2.34	0.60
1:o:591:ALA:HA	1:p:499:ASN:HD22	1.66	0.60
1:p:236:LEU:HD11	1:p:239[B]:ARG:HH11	1.67	0.60
1:r:612:ASP:OD1	1:r:613:VAL:N	2.34	0.60
1:w:230:HIS:O	1:w:245:THR:OG1	2.19	0.60
1:w:591:ALA:HA	1:x:499:ASN:HD22	1.66	0.60
1:x:218:GLY:HA3	1:x:409:ASN:HD22	1.65	0.60
1:x:591:ALA:HA	1:y:499:ASN:HD22	1.66	0.60
1:z:430:GLN:HE22	1:1:353:PRO:HB3	1.66	0.60
1:2:612:ASP:OD1	1:2:613:VAL:N	2.34	0.60
1:3:499:ASN:HD22	1:4:591:ALA:HA	1.66	0.60
1:A:591:ALA:HA	1:G:499:ASN:HD22	1.66	0.60
1:B:499:ASN:HD22	1:L:591:ALA:HA	1.66	0.60
1:E:230:HIS:O	1:E:245:THR:OG1	2.19	0.60
1:I:218:GLY:HA3	1:I:409:ASN:HD22	1.65	0.60
1:I:283:TYR:HB3	1:I:649:LEU:HD23	1.83	0.60
1:J:612:ASP:OD1	1:J:613:VAL:N	2.34	0.60
1:L:236:LEU:HD11	1:L:239[B]:ARG:HH11	1.67	0.60
1:O:353:PRO:HB3	1:n:430:GLN:HE22	1.66	0.60
1:Q:218:GLY:HA3	1:Q:409:ASN:HD22	1.65	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:591:ALA:HA	1:U:499:ASN:HD22	1.66	0.60
1:T:612:ASP:OD1	1:T:613:VAL:N	2.34	0.60
1:V:612:ASP:OD1	1:V:613:VAL:N	2.34	0.60
1:W:591:ALA:HA	1:Y:499:ASN:HD22	1.67	0.60
1:Y:356:LEU:HD13	1:Y:647:GLN:HG2	1.82	0.60
1:Z:591:ALA:HA	1:4:499:ASN:HD22	1.66	0.60
1:a:430:GLN:HE22	1:8:353:PRO:HB3	1.66	0.60
1:b:356:LEU:HD13	1:b:647:GLN:HG2	1.82	0.60
1:f:218:GLY:HA3	1:f:409:ASN:HD22	1.65	0.60
1:i:430:GLN:HE22	1:j:353:PRO:HB3	1.66	0.60
1:r:591:ALA:HA	1:s:499:ASN:HD22	1.66	0.60
1:u:236:LEU:HD11	1:u:239[B]:ARG:HH11	1.67	0.60
1:w:499:ASN:HD22	1:y:591:ALA:HA	1.67	0.60
1:z:591:ALA:HA	1:1:499:ASN:HD22	1.66	0.60
1:3:283:TYR:HB3	1:3:649:LEU:HD23	1.83	0.60
1:5:236:LEU:HD11	1:5:239[B]:ARG:HH11	1.67	0.60
1:6:218:GLY:HA3	1:6:409:ASN:HD22	1.65	0.60
1:6:591:ALA:HA	1:7:499:ASN:HD22	1.67	0.60
1:8:218:GLY:HA3	1:8:409:ASN:HD22	1.65	0.60
1:8:612:ASP:OD1	1:8:613:VAL:N	2.34	0.60
1:A:659:PRO:HG2	1:B:251:PRO:HB3	1.84	0.60
1:D:218:GLY:HA3	1:D:409:ASN:HD22	1.65	0.60
1:D:659:PRO:HG2	1:E:251:PRO:HB3	1.84	0.60
1:H:236:LEU:HD11	1:H:239[B]:ARG:HH11	1.67	0.60
1:I:236:LEU:HD11	1:I:239[B]:ARG:HH11	1.67	0.60
1:J:236:LEU:HD11	1:J:239[B]:ARG:HH11	1.67	0.60
1:K:283:TYR:HB3	1:K:649:LEU:HD23	1.83	0.60
1:P:218:GLY:HA3	1:P:409:ASN:HD22	1.65	0.60
1:T:499:ASN:HD22	1:l:591:ALA:HA	1.66	0.60
1:Z:612:ASP:OD1	1:Z:613:VAL:N	2.34	0.60
1:d:430:GLN:HE22	1:l:353:PRO:HB3	1.66	0.60
1:f:430:GLN:HE22	1:h:353:PRO:HB3	1.66	0.60
1:p:612:ASP:OD1	1:p:613:VAL:N	2.34	0.60
1:q:499:ASN:HD22	1:s:591:ALA:HA	1.66	0.60
1:t:409:ASN:ND2	1:y:224:ASN:OD1	2.29	0.60
1:t:499:ASN:HD22	1:v:591:ALA:HA	1.66	0.60
1:x:430:GLN:HE22	1:y:353:PRO:HB3	1.66	0.60
1:z:236:LEU:HD11	1:z:239[B]:ARG:HH11	1.67	0.60
1:1:591:ALA:HA	1:2:499:ASN:HD22	1.66	0.60
1:2:236:LEU:HD11	1:2:239[B]:ARG:HH11	1.67	0.60
1:4:356:LEU:HD13	1:4:647:GLN:HG2	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:591:ALA:HA	1:J:499:ASN:HD22	1.66	0.60
1:C:430:GLN:HE22	1:b:353:PRO:HB3	1.66	0.60
1:D:430:GLN:HE22	1:N:353:PRO:HB3	1.66	0.60
1:H:218:GLY:HA3	1:H:409:ASN:HD22	1.65	0.60
1:H:659:PRO:HG2	1:Z:251:PRO:HB3	1.84	0.60
1:J:283:TYR:HB3	1:J:649:LEU:HD23	1.83	0.60
1:L:612:ASP:OD1	1:L:613:VAL:N	2.34	0.60
1:M:353:PRO:HB3	1:b:430:GLN:HE22	1.66	0.60
1:N:283:TYR:HB3	1:N:649:LEU:HD23	1.83	0.60
1:O:591:ALA:HA	1:m:499:ASN:HD22	1.66	0.60
1:P:236:LEU:HD11	1:P:239[B]:ARG:HH11	1.67	0.60
1:Q:236:LEU:HD11	1:Q:239[B]:ARG:HH11	1.67	0.60
1:U:612:ASP:OD1	1:U:613:VAL:N	2.34	0.60
1:f:353:PRO:HB3	1:g:430:GLN:HE22	1.66	0.60
1:j:409:ASN:ND2	1:l:224:ASN:OD1	2.29	0.60
1:q:224:ASN:OD1	1:y:409:ASN:ND2	2.30	0.60
1:s:236:LEU:HD11	1:s:239[B]:ARG:HH11	1.67	0.60
1:t:591:ALA:HA	1:u:499:ASN:HD22	1.66	0.60
1:u:218:GLY:HA3	1:u:409:ASN:HD22	1.65	0.60
1:u:283:TYR:HB3	1:u:649:LEU:HD23	1.83	0.60
1:7:356:LEU:HD13	1:7:647:GLN:HG2	1.82	0.60
1:8:230:HIS:O	1:8:245:THR:OG1	2.19	0.60
1:E:283:TYR:HB3	1:E:649:LEU:HD23	1.83	0.60
1:G:251:PRO:HB3	1:W:659:PRO:HG2	1.84	0.60
1:K:236:LEU:HD11	1:K:239[B]:ARG:HH11	1.67	0.60
1:L:256:HIS:CD2	1:L:654:PRO:HG3	2.37	0.60
1:N:251:PRO:HB3	1:m:659:PRO:HG2	1.84	0.60
1:P:612:ASP:OD1	1:P:613:VAL:N	2.34	0.60
1:R:283:TYR:HB3	1:R:649:LEU:HD23	1.83	0.60
1:T:251:PRO:HB3	1:U:659:PRO:HG2	1.84	0.60
1:U:236:LEU:HD11	1:U:239[B]:ARG:HH11	1.67	0.60
1:W:218:GLY:HA3	1:W:409:ASN:HD22	1.65	0.60
1:W:430:GLN:HE22	1:Y:353:PRO:HB3	1.66	0.60
1:Z:283:TYR:HB3	1:Z:649:LEU:HD23	1.83	0.60
1:b:612:ASP:OD1	1:b:613:VAL:N	2.34	0.60
1:e:236:LEU:HD11	1:e:239[B]:ARG:HH11	1.67	0.60
1:f:612:ASP:OD1	1:f:613:VAL:N	2.34	0.60
1:g:659:PRO:HG2	1:k:251:PRO:HB3	1.84	0.60
1:i:283:TYR:HB3	1:i:649:LEU:HD23	1.83	0.60
1:j:251:PRO:HB3	1:x:659:PRO:HG2	1.84	0.60
1:j:612:ASP:OD1	1:j:613:VAL:N	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:409:ASN:ND2	1:6:224:ASN:OD1	2.29	0.60
1:r:659:PRO:HG2	1:x:251:PRO:HB3	1.84	0.60
1:t:251:PRO:HB3	1:6:659:PRO:HG2	1.84	0.60
1:w:283:TYR:HB3	1:w:649:LEU:HD23	1.83	0.60
1:z:256:HIS:CD2	1:z:654:PRO:HG3	2.37	0.60
1:z:612:ASP:OD1	1:z:613:VAL:N	2.34	0.60
1:2:283:TYR:HB3	1:2:649:LEU:HD23	1.83	0.60
1:4:236:LEU:HD11	1:4:239[B]:ARG:HH11	1.67	0.60
1:4:283:TYR:HB3	1:4:649:LEU:HD23	1.83	0.60
1:5:659:PRO:HG2	1:8:251:PRO:HB3	1.84	0.60
1:7:283:TYR:HB3	1:7:649:LEU:HD23	1.83	0.60
1:D:283:TYR:HB3	1:D:649:LEU:HD23	1.83	0.60
1:G:236:LEU:HD11	1:G:239[B]:ARG:HH11	1.67	0.60
1:H:591:ALA:HA	1:W:499:ASN:HD22	1.66	0.60
1:O:430:GLN:HE22	1:m:353:PRO:HB3	1.66	0.60
1:R:499:ASN:HD22	1:U:591:ALA:HA	1.66	0.60
1:S:226:SER:HG	1:S:319:ASN:H	1.50	0.60
1:T:224:ASN:OD1	1:U:409:ASN:ND2	2.29	0.60
1:W:256:HIS:CD2	1:W:654:PRO:HG3	2.37	0.60
1:Z:230:HIS:O	1:Z:245:THR:OG1	2.19	0.60
1:c:236:LEU:HD11	1:c:239[B]:ARG:HH11	1.67	0.60
1:m:224:ASN:OD1	1:s:409:ASN:ND2	2.29	0.60
1:q:283:TYR:HB3	1:q:649:LEU:HD23	1.83	0.60
1:s:612:ASP:OD1	1:s:613:VAL:N	2.34	0.60
1:t:236:LEU:HD11	1:t:239[B]:ARG:HH11	1.67	0.60
1:u:591:ALA:HA	1:v:499:ASN:HD22	1.66	0.60
1:x:236:LEU:HD11	1:x:239[B]:ARG:HH11	1.67	0.60
1:5:218:GLY:HA3	1:5:409:ASN:HD22	1.65	0.60
1:6:256:HIS:CD2	1:6:654:PRO:HG3	2.37	0.60
1:8:283:TYR:HB3	1:8:649:LEU:HD23	1.83	0.60
1:D:236:LEU:HD11	1:D:239[B]:ARG:HH11	1.67	0.60
1:E:612:ASP:OD1	1:E:613:VAL:N	2.34	0.60
1:F:283:TYR:HB3	1:F:649:LEU:HD23	1.83	0.60
1:G:591:ALA:HA	1:I:499:ASN:HD22	1.66	0.60
1:H:612:ASP:OD1	1:H:613:VAL:N	2.34	0.60
1:J:218:GLY:HA3	1:J:409:ASN:HD22	1.65	0.60
1:J:430:GLN:HE22	1:L:353:PRO:HB3	1.66	0.60
1:O:256:HIS:CD2	1:O:654:PRO:HG3	2.37	0.60
1:Q:251:PRO:HB3	1:S:659:PRO:HG2	1.84	0.60
1:R:612:ASP:OD1	1:R:613:VAL:N	2.34	0.60
1:S:251:PRO:HB3	1:d:659:PRO:HG2	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:236:LEU:HD11	1:W:239[B]:ARG:HH11	1.67	0.60
1:Y:283:TYR:HB3	1:Y:649:LEU:HD23	1.83	0.60
1:Z:256:HIS:CD2	1:Z:654:PRO:HG3	2.37	0.60
1:c:430:GLN:HE22	1:o:353:PRO:HB3	1.66	0.60
1:d:236:LEU:HD11	1:d:239[B]:ARG:HH11	1.67	0.60
1:j:236:LEU:HD11	1:j:239[B]:ARG:HH11	1.67	0.60
1:k:283:TYR:HB3	1:k:649:LEU:HD23	1.83	0.60
1:y:283:TYR:HB3	1:y:649:LEU:HD23	1.83	0.60
1:2:218:GLY:HA3	1:2:409:ASN:HD22	1.65	0.60
1:5:591:ALA:HA	1:6:499:ASN:HD22	1.66	0.60
1:6:430:GLN:HE22	1:7:353:PRO:HB3	1.66	0.60
1:8:256:HIS:CD2	1:8:654:PRO:HG3	2.37	0.60
1:H:224:ASN:OD1	1:I:409:ASN:ND2	2.29	0.59
1:H:499:ASN:HD22	1:Y:591:ALA:HA	1.66	0.59
1:J:591:ALA:HA	1:L:499:ASN:HD22	1.66	0.59
1:M:256:HIS:CD2	1:M:654:PRO:HG3	2.37	0.59
1:N:612:ASP:OD1	1:N:613:VAL:N	2.34	0.59
1:R:659:PRO:HG2	1:V:251:PRO:HB3	1.84	0.59
1:T:353:PRO:HB3	1:l:430:GLN:HE22	1.66	0.59
1:W:612:ASP:OD1	1:W:613:VAL:N	2.34	0.59
1:Z:236:LEU:HD11	1:Z:239[B]:ARG:HH11	1.67	0.59
1:Z:659:PRO:HG2	1:a:251:PRO:HB3	1.84	0.59
1:b:236:LEU:HD11	1:b:239[B]:ARG:HH11	1.67	0.59
1:f:256:HIS:CD2	1:f:654:PRO:HG3	2.37	0.59
1:h:256:HIS:CD2	1:h:654:PRO:HG3	2.37	0.59
1:i:612:ASP:OD1	1:i:613:VAL:N	2.34	0.59
1:k:236:LEU:HD11	1:k:239[B]:ARG:HH11	1.67	0.59
1:l:256:HIS:CD2	1:l:654:PRO:HG3	2.37	0.59
1:m:251:PRO:HB3	1:s:659:PRO:HG2	1.84	0.59
1:n:236:LEU:HD11	1:n:239[B]:ARG:HH11	1.67	0.59
1:n:659:PRO:HG2	1:r:251:PRO:HB3	1.84	0.59
1:q:612:ASP:OD1	1:q:613:VAL:N	2.34	0.59
1:r:226:SER:HG	1:r:319:ASN:H	1.50	0.59
1:3:251:PRO:HB3	1:8:659:PRO:HG2	1.84	0.59
1:5:612:ASP:OD1	1:5:613:VAL:N	2.34	0.59
1:A:499:ASN:HD22	1:I:591:ALA:HA	1.66	0.59
1:B:612:ASP:OD1	1:B:613:VAL:N	2.34	0.59
1:T:236:LEU:HD11	1:T:239[B]:ARG:HH11	1.67	0.59
1:T:256:HIS:CD2	1:T:654:PRO:HG3	2.37	0.59
1:X:353:PRO:HB3	1:e:430:GLN:HE22	1.66	0.59
1:b:256:HIS:CD2	1:b:654:PRO:HG3	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:256:HIS:CD2	1:c:654:PRO:HG3	2.37	0.59
1:e:256:HIS:CD2	1:e:654:PRO:HG3	2.37	0.59
1:f:236:LEU:HD11	1:f:239[B]:ARG:HH11	1.67	0.59
1:i:256:HIS:CD2	1:i:654:PRO:HG3	2.37	0.59
1:i:591:ALA:HA	1:j:499:ASN:HD22	1.67	0.59
1:k:659:PRO:HG2	1:w:251:PRO:HB3	1.84	0.59
1:m:236:LEU:HD11	1:m:239[B]:ARG:HH11	1.67	0.59
1:p:251:PRO:HB3	1:q:659:PRO:HG2	1.84	0.59
1:v:659:PRO:HG2	1:1:251:PRO:HB3	1.84	0.59
1:w:612:ASP:OD1	1:w:613:VAL:N	2.34	0.59
1:y:236:LEU:HD11	1:y:239[B]:ARG:HH11	1.67	0.59
1:z:353:PRO:HB3	1:2:430:GLN:HE22	1.66	0.59
1:1:612:ASP:OD1	1:1:613:VAL:N	2.34	0.59
1:6:236:LEU:HD11	1:6:239[B]:ARG:HH11	1.67	0.59
1:6:612:ASP:OD1	1:6:613:VAL:N	2.34	0.59
1:A:283:TYR:HB3	1:A:649:LEU:HD23	1.82	0.59
1:C:353:PRO:HB3	1:M:430:GLN:HE22	1.66	0.59
1:D:612:ASP:OD1	1:D:613:VAL:N	2.34	0.59
1:M:236:LEU:HD11	1:M:239[B]:ARG:HH11	1.67	0.59
1:M:659:PRO:HG2	1:c:251:PRO:HB3	1.84	0.59
1:N:256:HIS:CD2	1:N:654:PRO:HG3	2.37	0.59
1:N:474:ALA:H	1:P:272:ASN:ND2	2.00	0.59
1:T:659:PRO:HG2	1:i:251:PRO:HB3	1.84	0.59
1:V:256:HIS:CD2	1:V:654:PRO:HG3	2.37	0.59
1:V:659:PRO:HG2	1:W:251:PRO:HB3	1.84	0.59
1:Z:564:GLU:OE2	1:Z:614:TYR:OH	2.15	0.59
1:h:251:PRO:HB3	1:i:659:PRO:HG2	1.83	0.59
1:m:256:HIS:CD2	1:m:654:PRO:HG3	2.37	0.59
1:p:256:HIS:CD2	1:p:654:PRO:HG3	2.37	0.59
1:r:256:HIS:CD2	1:r:654:PRO:HG3	2.37	0.59
1:v:224:ASN:OD1	1:w:409:ASN:ND2	2.29	0.59
1:z:499:ASN:HD22	1:2:591:ALA:HA	1.66	0.59
1:1:236:LEU:HD11	1:1:239[B]:ARG:HH11	1.67	0.59
1:3:236:LEU:HD11	1:3:239[B]:ARG:HH11	1.67	0.59
1:5:499:ASN:HD22	1:7:591:ALA:HA	1.66	0.59
1:8:236:LEU:HD11	1:8:239[B]:ARG:HH11	1.67	0.59
1:F:236:LEU:HD11	1:F:239[B]:ARG:HH11	1.67	0.59
1:F:659:PRO:HG2	1:R:251:PRO:HB3	1.84	0.59
1:H:430:GLN:HE22	1:W:353:PRO:HB3	1.66	0.59
1:J:256:HIS:CD2	1:J:654:PRO:HG3	2.37	0.59
1:K:256:HIS:CD2	1:K:654:PRO:HG3	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:283:TYR:HB3	1:L:649:LEU:HD23	1.83	0.59
1:M:251:PRO:HB3	1:N:659:PRO:HG2	1.83	0.59
1:R:430:GLN:HE22	1:S:353:PRO:HB3	1.66	0.59
1:S:256:HIS:CD2	1:S:654:PRO:HG3	2.37	0.59
1:T:430:GLN:HE22	1:d:353:PRO:HB3	1.66	0.59
1:e:251:PRO:HB3	1:h:659:PRO:HG2	1.84	0.59
1:h:236:LEU:HD11	1:h:239[B]:ARG:HH11	1.67	0.59
1:k:612:ASP:OD1	1:k:613:VAL:N	2.34	0.59
1:m:430:GLN:HE22	1:n:353:PRO:HB3	1.66	0.59
1:n:218:GLY:HA3	1:n:409:ASN:HD22	1.65	0.59
1:q:430:GLN:HE22	1:r:353:PRO:HB3	1.66	0.59
1:u:409:ASN:ND2	1:5:224:ASN:OD1	2.29	0.59
1:u:612:ASP:OD1	1:u:613:VAL:N	2.34	0.59
1:8:564:GLU:OE2	1:8:614:TYR:OH	2.15	0.59
1:A:236:LEU:HD11	1:A:239[B]:ARG:HH11	1.67	0.59
1:B:236:LEU:HD11	1:B:239[B]:ARG:HH11	1.67	0.59
1:E:236:LEU:HD11	1:E:239[B]:ARG:HH11	1.67	0.59
1:I:612:ASP:OD1	1:I:613:VAL:N	2.34	0.59
1:U:256:HIS:CD2	1:U:654:PRO:HG3	2.37	0.59
1:a:236:LEU:HD11	1:a:239[B]:ARG:HH11	1.67	0.59
1:d:218:GLY:HA3	1:d:409:ASN:HD22	1.65	0.59
1:g:353:PRO:HB3	1:h:430:GLN:HE22	1.66	0.59
1:n:283:TYR:HB3	1:n:649:LEU:HD23	1.83	0.59
1:p:659:PRO:HG2	1:6:251:PRO:HB3	1.84	0.59
1:q:251:PRO:HB3	1:y:659:PRO:HG2	1.84	0.59
1:v:236:LEU:HD11	1:v:239[B]:ARG:HH11	1.67	0.59
1:w:236:LEU:HD11	1:w:239[B]:ARG:HH11	1.67	0.59
1:z:283:TYR:HB3	1:z:649:LEU:HD23	1.83	0.59
1:2:256:HIS:CD2	1:2:654:PRO:HG3	2.37	0.59
1:4:256:HIS:CD2	1:4:654:PRO:HG3	2.37	0.59
1:5:430:GLN:HE22	1:6:353:PRO:HB3	1.66	0.59
1:A:224:ASN:OD1	1:E:409:ASN:ND2	2.30	0.59
1:A:260:GLN:OE1	1:A:275:PHE:CE1	2.56	0.59
1:A:353:PRO:HB3	1:I:430:GLN:HE22	1.66	0.59
1:C:283:TYR:HB3	1:C:649:LEU:HD23	1.83	0.59
1:K:659:PRO:HG2	1:7:251:PRO:HB3	1.84	0.59
1:R:236:LEU:HD11	1:R:239[B]:ARG:HH11	1.67	0.59
1:S:236:LEU:HD11	1:S:239[B]:ARG:HH11	1.67	0.59
1:Y:224:ASN:OD1	1:4:409:ASN:ND2	2.30	0.59
1:c:260:GLN:OE1	1:c:275:PHE:CE1	2.56	0.59
1:e:260:GLN:OE1	1:e:275:PHE:CE1	2.56	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:260:GLN:OE1	1:k:275:PHE:CE1	2.56	0.59
1:n:256:HIS:CD2	1:n:654:PRO:HG3	2.37	0.59
1:n:260:GLN:OE1	1:n:275:PHE:CE1	2.56	0.59
1:q:236:LEU:HD11	1:q:239[B]:ARG:HH11	1.67	0.59
1:s:256:HIS:CD2	1:s:654:PRO:HG3	2.37	0.59
1:u:430:GLN:HE22	1:v:353:PRO:HB3	1.66	0.59
1:v:260:GLN:OE1	1:v:275:PHE:CE1	2.56	0.59
1:v:283:TYR:HB3	1:v:649:LEU:HD23	1.83	0.59
1:3:256:HIS:CD2	1:3:654:PRO:HG3	2.37	0.59
1:D:260:GLN:OE1	1:D:275:PHE:CE1	2.56	0.59
1:I:251:PRO:HB3	1:J:659:PRO:HG2	1.84	0.59
1:I:256:HIS:CD2	1:I:654:PRO:HG3	2.37	0.59
1:J:251:PRO:HB3	1:a:659:PRO:HG2	1.84	0.59
1:K:409:ASN:ND2	1:7:224:ASN:OD1	2.30	0.59
1:N:236:LEU:HD11	1:N:239[B]:ARG:HH11	1.67	0.59
1:P:256:HIS:CD2	1:P:654:PRO:HG3	2.37	0.59
1:R:591:ALA:HA	1:S:499:ASN:HD22	1.66	0.59
1:V:260:GLN:OE1	1:V:275:PHE:CE1	2.56	0.59
1:Y:251:PRO:HB3	1:4:659:PRO:HG2	1.84	0.59
1:d:256:HIS:CD2	1:d:654:PRO:HG3	2.37	0.59
1:d:260:GLN:OE1	1:d:275:PHE:CE1	2.56	0.59
1:d:283:TYR:HB3	1:d:649:LEU:HD23	1.83	0.59
1:i:236:LEU:HD11	1:i:239[B]:ARG:HH11	1.67	0.59
1:j:430:GLN:HE22	1:k:353:PRO:HB3	1.66	0.59
1:p:260:GLN:OE1	1:p:275:PHE:CE1	2.56	0.59
1:q:256:HIS:CD2	1:q:654:PRO:HG3	2.37	0.59
1:r:236:LEU:HD11	1:r:239[B]:ARG:HH11	1.67	0.59
1:D:256:HIS:CD2	1:D:654:PRO:HG3	2.37	0.59
1:H:251:PRO:HB3	1:I:659:PRO:HG2	1.84	0.59
1:K:251:PRO:HB3	1:L:659:PRO:HG2	1.84	0.59
1:O:224:ASN:OD1	1:P:409:ASN:ND2	2.30	0.59
1:R:256:HIS:CD2	1:R:654:PRO:HG3	2.37	0.59
1:S:224:ASN:OD1	1:d:409:ASN:ND2	2.29	0.59
1:U:260:GLN:OE1	1:U:275:PHE:CE1	2.56	0.59
1:W:260:GLN:OE1	1:W:275:PHE:CE1	2.56	0.59
1:Y:260:GLN:OE1	1:Y:275:PHE:CE1	2.56	0.59
1:Z:260:GLN:OE1	1:Z:275:PHE:CE1	2.56	0.59
1:a:256:HIS:CD2	1:a:654:PRO:HG3	2.37	0.59
1:g:283:TYR:HB3	1:g:649:LEU:HD23	1.83	0.59
1:j:256:HIS:CD2	1:j:654:PRO:HG3	2.37	0.59
1:j:260:GLN:OE1	1:j:275:PHE:CE1	2.56	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:256:HIS:CD2	1:k:654:PRO:HG3	2.37	0.59
1:q:591:ALA:HA	1:r:499:ASN:HD22	1.66	0.59
1:s:260:GLN:OE1	1:s:275:PHE:CE1	2.56	0.59
1:u:256:HIS:CD2	1:u:654:PRO:HG3	2.37	0.59
1:u:659:PRO:HG2	1:5:251:PRO:HB3	1.84	0.59
1:z:659:PRO:HG2	1:4:251:PRO:HB3	1.84	0.59
1:2:251:PRO:HB3	1:3:659:PRO:HG2	1.84	0.59
1:5:256:HIS:CD2	1:5:654:PRO:HG3	2.37	0.59
1:6:260:GLN:OE1	1:6:275:PHE:CE1	2.56	0.59
1:7:260:GLN:OE1	1:7:275:PHE:CE1	2.56	0.59
1:B:260:GLN:OE1	1:B:275:PHE:CE1	2.56	0.59
1:H:256:HIS:CD2	1:H:654:PRO:HG3	2.37	0.59
1:P:260:GLN:OE1	1:P:275:PHE:CE1	2.56	0.59
1:Q:256:HIS:CD2	1:Q:654:PRO:HG3	2.37	0.59
1:b:253:TYR:OH	1:b:374:ILE:O	2.21	0.59
1:i:499:ASN:HD22	1:k:591:ALA:HA	1.67	0.59
1:x:256:HIS:CD2	1:x:654:PRO:HG3	2.37	0.59
1:1:260:GLN:OE1	1:1:275:PHE:CE1	2.56	0.59
1:8:260:GLN:OE1	1:8:275:PHE:CE1	2.56	0.59
1:B:659:PRO:HG2	1:C:251:PRO:HB3	1.84	0.59
1:I:253:TYR:OH	1:I:374:ILE:O	2.21	0.59
1:K:260:GLN:OE1	1:K:275:PHE:CE1	2.56	0.59
1:X:253:TYR:OH	1:X:374:ILE:O	2.21	0.59
1:f:253:TYR:OH	1:f:374:ILE:O	2.21	0.59
1:h:612:ASP:OD1	1:h:613:VAL:N	2.34	0.59
1:n:409:ASN:ND2	1:r:224:ASN:OD1	2.29	0.59
1:o:253:TYR:OH	1:o:374:ILE:O	2.21	0.59
1:u:251:PRO:HB3	1:2:659:PRO:HG2	1.84	0.59
1:u:253:TYR:OH	1:u:374:ILE:O	2.21	0.59
1:A:409:ASN:ND2	1:B:224:ASN:OD1	2.29	0.58
1:D:253:TYR:OH	1:D:374:ILE:O	2.21	0.58
1:D:591:ALA:HA	1:N:499:ASN:HD22	1.68	0.58
1:E:253:TYR:OH	1:E:374:ILE:O	2.21	0.58
1:M:612:ASP:OD1	1:M:613:VAL:N	2.34	0.58
1:Y:256:HIS:CD2	1:Y:654:PRO:HG3	2.37	0.58
1:Z:499:ASN:HD22	1:3:591:ALA:HA	1.66	0.58
1:a:591:ALA:HA	1:8:499:ASN:HD22	1.66	0.58
1:d:230:HIS:O	1:d:245:THR:OG1	2.19	0.58
1:g:236:LEU:HD11	1:g:239[B]:ARG:HH11	1.67	0.58
1:g:260:GLN:OE1	1:g:275:PHE:CE1	2.56	0.58
1:k:253:TYR:OH	1:k:374:ILE:O	2.21	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:253:TYR:OH	1:w:374:ILE:O	2.21	0.58
1:2:260:GLN:OE1	1:2:275:PHE:CE1	2.56	0.58
1:4:260:GLN:OE1	1:4:275:PHE:CE1	2.56	0.58
1:B:253:TYR:OH	1:B:374:ILE:O	2.21	0.58
1:C:260:GLN:OE1	1:C:275:PHE:CE1	2.56	0.58
1:E:256:HIS:CD2	1:E:654:PRO:HG3	2.37	0.58
1:F:260:GLN:OE1	1:F:275:PHE:CE1	2.56	0.58
1:J:260:GLN:OE1	1:J:275:PHE:CE1	2.56	0.58
1:N:260:GLN:OE1	1:N:275:PHE:CE1	2.56	0.58
1:Q:260:GLN:OE1	1:Q:275:PHE:CE1	2.56	0.58
1:X:659:PRO:HG2	1:f:251:PRO:HB3	1.84	0.58
1:b:251:PRO:HB3	1:o:659:PRO:HG2	1.84	0.58
1:m:260:GLN:OE1	1:m:275:PHE:CE1	2.56	0.58
1:o:236:LEU:HD11	1:o:239[B]:ARG:HH11	1.67	0.58
1:t:256:HIS:CD2	1:t:654:PRO:HG3	2.37	0.58
1:v:251:PRO:HB3	1:w:659:PRO:HG2	1.84	0.58
1:w:256:HIS:CD2	1:w:654:PRO:HG3	2.37	0.58
1:y:260:GLN:OE1	1:y:275:PHE:CE1	2.56	0.58
1:5:260:GLN:OE1	1:5:275:PHE:CE1	2.56	0.58
1:7:256:HIS:CD2	1:7:654:PRO:HG3	2.37	0.58
1:C:236:LEU:HD11	1:C:239[B]:ARG:HH11	1.67	0.58
1:G:256:HIS:CD2	1:G:654:PRO:HG3	2.37	0.58
1:H:260:GLN:OE1	1:H:275:PHE:CE1	2.56	0.58
1:T:260:GLN:OE1	1:T:275:PHE:CE1	2.56	0.58
1:g:251:PRO:HB3	1:1:659:PRO:HG2	1.84	0.58
1:i:260:GLN:OE1	1:i:275:PHE:CE1	2.56	0.58
1:q:230:HIS:O	1:q:245:THR:OG1	2.19	0.58
1:y:256:HIS:CD2	1:y:654:PRO:HG3	2.37	0.58
1:1:253:TYR:OH	1:1:374:ILE:O	2.21	0.58
1:B:256:HIS:CD2	1:B:654:PRO:HG3	2.37	0.58
1:G:253:TYR:OH	1:G:374:ILE:O	2.21	0.58
1:R:260:GLN:OE1	1:R:275:PHE:CE1	2.56	0.58
1:S:260:GLN:OE1	1:S:275:PHE:CE1	2.56	0.58
1:X:236:LEU:HD11	1:X:239[B]:ARG:HH11	1.67	0.58
1:b:260:GLN:OE1	1:b:275:PHE:CE1	2.56	0.58
1:r:260:GLN:OE1	1:r:275:PHE:CE1	2.56	0.58
1:u:230:HIS:O	1:u:245:THR:OG1	2.19	0.58
1:x:260:GLN:OE1	1:x:275:PHE:CE1	2.56	0.58
1:F:256:HIS:CD2	1:F:654:PRO:HG3	2.37	0.58
1:I:230:HIS:O	1:I:245:THR:OG1	2.19	0.58
1:M:260:GLN:OE1	1:M:275:PHE:CE1	2.56	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:260:GLN:OE1	1:h:275:PHE:CE1	2.56	0.58
1:l:260:GLN:OE1	1:l:275:PHE:CE1	2.56	0.58
1:q:260:GLN:OE1	1:q:275:PHE:CE1	2.56	0.58
1:t:659:PRO:HG2	1:y:251:PRO:HB3	1.84	0.58
1:v:256:HIS:CD2	1:v:654:PRO:HG3	2.37	0.58
1:1:256:HIS:CD2	1:1:654:PRO:HG3	2.37	0.58
1:A:256:HIS:CD2	1:A:654:PRO:HG3	2.37	0.58
1:D:409:ASN:ND2	1:E:224:ASN:OD1	2.29	0.58
1:F:251:PRO:HB3	1:G:659:PRO:HG2	1.84	0.58
1:K:564:GLU:OE2	1:K:614:TYR:OH	2.15	0.58
1:O:260:GLN:OE1	1:O:275:PHE:CE1	2.56	0.58
1:R:230:HIS:O	1:R:245:THR:OG1	2.19	0.58
1:U:224:ASN:OD1	1:e:409:ASN:ND2	2.30	0.58
1:U:251:PRO:HB3	1:e:659:PRO:HG2	1.84	0.58
1:X:260:GLN:OE1	1:X:275:PHE:CE1	2.56	0.58
1:f:260:GLN:OE1	1:f:275:PHE:CE1	2.56	0.58
1:o:251:PRO:HB3	1:7:659:PRO:HG2	1.83	0.58
1:y:226:SER:HG	1:y:319:ASN:H	1.52	0.58
1:A:251:PRO:HB3	1:E:659:PRO:HG2	1.85	0.58
1:N:224:ASN:OD1	1:m:409:ASN:ND2	2.30	0.58
1:N:230:HIS:O	1:N:245:THR:OG1	2.19	0.58
1:R:349:GLU:OE1	1:R:351:GLN:NE2	2.37	0.58
1:Y:349:GLU:OE1	1:Y:351:GLN:NE2	2.37	0.58
1:i:474:ALA:H	1:j:272:ASN:ND2	2.01	0.58
1:o:260:GLN:OE1	1:o:275:PHE:CE1	2.56	0.58
1:p:253:TYR:OH	1:p:374:ILE:O	2.21	0.58
1:q:349:GLU:OE1	1:q:351:GLN:NE2	2.37	0.58
1:s:564:GLU:OE2	1:s:614:TYR:OH	2.15	0.58
1:u:260:GLN:OE1	1:u:275:PHE:CE1	2.56	0.58
1:v:409:ASN:ND2	1:1:224:ASN:OD1	2.29	0.58
1:3:260:GLN:OE1	1:3:275:PHE:CE1	2.56	0.58
1:3:349:GLU:OE1	1:3:351:GLN:NE2	2.37	0.58
1:I:260:GLN:OE1	1:I:275:PHE:CE1	2.56	0.58
1:N:349:GLU:OE1	1:N:351:GLN:NE2	2.37	0.58
1:T:253:TYR:OH	1:T:374:ILE:O	2.21	0.58
1:V:253:TYR:OH	1:V:374:ILE:O	2.21	0.58
1:X:349:GLU:OE1	1:X:351:GLN:NE2	2.37	0.58
1:a:349:GLU:OE1	1:a:351:GLN:NE2	2.37	0.58
1:c:659:PRO:HG2	1:s:251:PRO:HB3	1.84	0.58
1:i:349:GLU:OE1	1:i:351:GLN:NE2	2.37	0.58
1:k:349:GLU:OE1	1:k:351:GLN:NE2	2.37	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:253:TYR:OH	1:m:374:ILE:O	2.21	0.58
1:n:349:GLU:OE1	1:n:351:GLN:NE2	2.37	0.58
1:n:564:GLU:OE2	1:n:614:TYR:OH	2.15	0.58
1:o:256:HIS:CD2	1:o:654:PRO:HG3	2.37	0.58
1:o:349:GLU:OE1	1:o:351:GLN:NE2	2.37	0.58
1:t:260:GLN:OE1	1:t:275:PHE:CE1	2.56	0.58
1:z:260:GLN:OE1	1:z:275:PHE:CE1	2.56	0.58
1:C:256:HIS:CD2	1:C:654:PRO:HG3	2.37	0.58
1:D:349:GLU:OE1	1:D:351:GLN:NE2	2.37	0.58
1:G:260:GLN:OE1	1:G:275:PHE:CE1	2.56	0.58
1:H:349:GLU:OE1	1:H:351:GLN:NE2	2.37	0.58
1:K:349:GLU:OE1	1:K:351:GLN:NE2	2.37	0.58
1:Q:349:GLU:OE1	1:Q:351:GLN:NE2	2.37	0.58
1:U:564:GLU:OE2	1:U:614:TYR:OH	2.15	0.58
1:X:251:PRO:HB3	1:Y:659:PRO:HG2	1.83	0.58
1:X:256:HIS:CD2	1:X:654:PRO:HG3	2.37	0.58
1:Y:236:LEU:HD11	1:Y:239[B]:ARG:HH11	1.67	0.58
1:a:260:GLN:OE1	1:a:275:PHE:CE1	2.56	0.58
1:d:349:GLU:OE1	1:d:351:GLN:NE2	2.37	0.58
1:g:256:HIS:CD2	1:g:654:PRO:HG3	2.37	0.58
1:i:230:HIS:O	1:i:245:THR:OG1	2.19	0.58
1:5:349:GLU:OE1	1:5:351:GLN:NE2	2.37	0.58
1:7:253:TYR:OH	1:7:374:ILE:O	2.21	0.58
1:7:349:GLU:OE1	1:7:351:GLN:NE2	2.37	0.58
1:L:260:GLN:OE1	1:L:275:PHE:CE1	2.56	0.58
1:M:230:HIS:O	1:M:245:THR:OG1	2.19	0.58
1:O:236:LEU:HD11	1:O:239[B]:ARG:HH11	1.67	0.58
1:V:409:ASN:ND2	1:W:224:ASN:OD1	2.29	0.58
1:c:409:ASN:ND2	1:s:224:ASN:OD1	2.30	0.58
1:f:659:PRO:HG2	1:z:251:PRO:HB3	1.84	0.58
1:l:236:LEU:HD11	1:l:239[B]:ARG:HH11	1.67	0.58
1:l:349:GLU:OE1	1:l:351:GLN:NE2	2.37	0.58
1:t:349:GLU:OE1	1:t:351:GLN:NE2	2.37	0.58
1:v:253:TYR:OH	1:v:374:ILE:O	2.21	0.58
1:4:349:GLU:OE1	1:4:351:GLN:NE2	2.37	0.58
1:4:564:GLU:OE2	1:4:614:TYR:OH	2.15	0.58
1:7:236:LEU:HD11	1:7:239[B]:ARG:HH11	1.67	0.58
1:C:320:ILE:HD13	1:C:342:ILE:HD11	1.86	0.57
1:C:349:GLU:OE1	1:C:351:GLN:NE2	2.37	0.57
1:G:320:ILE:HD13	1:G:342:ILE:HD11	1.86	0.57
1:G:349:GLU:OE1	1:G:351:GLN:NE2	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:320:ILE:HD13	1:M:342:ILE:HD11	1.86	0.57
1:O:349:GLU:OE1	1:O:351:GLN:NE2	2.37	0.57
1:O:659:PRO:HG2	1:d:251:PRO:HB3	1.84	0.57
1:Q:320:ILE:HD13	1:Q:342:ILE:HD11	1.86	0.57
1:d:564:GLU:OE2	1:d:614:TYR:OH	2.15	0.57
1:g:320:ILE:HD13	1:g:342:ILE:HD11	1.86	0.57
1:h:230:HIS:O	1:h:245:THR:OG1	2.19	0.57
1:l:659:PRO:HG2	1:n:251:PRO:HB3	1.84	0.57
1:t:320:ILE:HD13	1:t:342:ILE:HD11	1.86	0.57
1:x:349:GLU:OE1	1:x:351:GLN:NE2	2.37	0.57
1:z:320:ILE:HD13	1:z:342:ILE:HD11	1.86	0.57
1:6:349:GLU:OE1	1:6:351:GLN:NE2	2.37	0.57
1:A:253:TYR:OH	1:A:374:ILE:O	2.21	0.57
1:A:320:ILE:HD13	1:A:342:ILE:HD11	1.86	0.57
1:F:349:GLU:OE1	1:F:351:GLN:NE2	2.37	0.57
1:L:251:PRO:HB3	1:b:659:PRO:HG2	1.84	0.57
1:L:320:ILE:HD13	1:L:342:ILE:HD11	1.86	0.57
1:T:349:GLU:OE1	1:T:351:GLN:NE2	2.37	0.57
1:U:320:ILE:HD13	1:U:342:ILE:HD11	1.86	0.57
1:W:320:ILE:HD13	1:W:342:ILE:HD11	1.86	0.57
1:W:349:GLU:OE1	1:W:351:GLN:NE2	2.37	0.57
1:c:320:ILE:HD13	1:c:342:ILE:HD11	1.86	0.57
1:e:320:ILE:HD13	1:e:342:ILE:HD11	1.86	0.57
1:g:349:GLU:OE1	1:g:351:GLN:NE2	2.37	0.57
1:h:320:ILE:HD13	1:h:342:ILE:HD11	1.86	0.57
1:j:230:HIS:O	1:j:245:THR:OG1	2.19	0.57
1:j:349:GLU:OE1	1:j:351:GLN:NE2	2.37	0.57
1:m:349:GLU:OE1	1:m:351:GLN:NE2	2.37	0.57
1:u:349:GLU:OE1	1:u:351:GLN:NE2	2.37	0.57
1:w:260:GLN:OE1	1:w:275:PHE:CE1	2.56	0.57
1:y:320:ILE:HD13	1:y:342:ILE:HD11	1.86	0.57
1:6:320:ILE:HD13	1:6:342:ILE:HD11	1.86	0.57
1:B:349:GLU:OE1	1:B:351:GLN:NE2	2.37	0.57
1:D:320:ILE:HD13	1:D:342:ILE:HD11	1.86	0.57
1:F:320:ILE:HD13	1:F:342:ILE:HD11	1.86	0.57
1:I:349:GLU:OE1	1:I:351:GLN:NE2	2.37	0.57
1:P:230:HIS:O	1:P:245:THR:OG1	2.19	0.57
1:P:349:GLU:OE1	1:P:351:GLN:NE2	2.37	0.57
1:T:409:ASN:ND2	1:i:224:ASN:OD1	2.30	0.57
1:c:349:GLU:OE1	1:c:351:GLN:NE2	2.37	0.57
1:g:253:TYR:OH	1:g:374:ILE:O	2.21	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:320:ILE:HD13	1:i:342:ILE:HD11	1.86	0.57
1:k:320:ILE:HD13	1:k:342:ILE:HD11	1.86	0.57
1:s:320:ILE:HD13	1:s:342:ILE:HD11	1.86	0.57
1:v:320:ILE:HD13	1:v:342:ILE:HD11	1.86	0.57
1:v:349:GLU:OE1	1:v:351:GLN:NE2	2.37	0.57
1:x:320:ILE:HD13	1:x:342:ILE:HD11	1.86	0.57
1:y:349:GLU:OE1	1:y:351:GLN:NE2	2.37	0.57
1:1:474:ALA:H	1:2:272:ASN:ND2	2.03	0.57
1:A:349:GLU:OE1	1:A:351:GLN:NE2	2.37	0.57
1:C:253:TYR:OH	1:C:374:ILE:O	2.21	0.57
1:D:272:ASN:ND2	1:P:474:ALA:H	2.02	0.57
1:E:260:GLN:OE1	1:E:275:PHE:CE1	2.56	0.57
1:E:349:GLU:OE1	1:E:351:GLN:NE2	2.37	0.57
1:J:349:GLU:OE1	1:J:351:GLN:NE2	2.37	0.57
1:N:320:ILE:HD13	1:N:342:ILE:HD11	1.86	0.57
1:P:320:ILE:HD13	1:P:342:ILE:HD11	1.86	0.57
1:e:349:GLU:OE1	1:e:351:GLN:NE2	2.37	0.57
1:r:349:GLU:OE1	1:r:351:GLN:NE2	2.37	0.57
1:w:349:GLU:OE1	1:w:351:GLN:NE2	2.37	0.57
1:z:474:ALA:H	1:1:272:ASN:ND2	2.03	0.57
1:1:320:ILE:HD13	1:1:342:ILE:HD11	1.86	0.57
1:1:349:GLU:OE1	1:1:351:GLN:NE2	2.37	0.57
1:2:349:GLU:OE1	1:2:351:GLN:NE2	2.37	0.57
1:B:272:ASN:ND2	1:L:474:ALA:H	2.03	0.57
1:B:320:ILE:HD13	1:B:342:ILE:HD11	1.86	0.57
1:B:474:ALA:H	1:J:272:ASN:ND2	2.03	0.57
1:B:703:THR:OG1	1:I:703:THR:OG1	2.23	0.57
1:L:224:ASN:OD1	1:b:409:ASN:ND2	2.30	0.57
1:R:474:ALA:H	1:S:272:ASN:ND2	2.03	0.57
1:S:349:GLU:OE1	1:S:351:GLN:NE2	2.37	0.57
1:U:703:THR:OG1	1:V:703:THR:OG1	2.23	0.57
1:d:703:THR:OG1	1:n:703:THR:OG1	2.23	0.57
1:f:409:ASN:ND2	1:z:224:ASN:OD1	2.30	0.57
1:j:320:ILE:HD13	1:j:342:ILE:HD11	1.86	0.57
1:k:409:ASN:ND2	1:w:224:ASN:OD1	2.30	0.57
1:q:474:ALA:H	1:r:272:ASN:ND2	2.03	0.57
1:3:272:ASN:ND2	1:4:474:ALA:H	2.03	0.57
1:8:349:GLU:OE1	1:8:351:GLN:NE2	2.37	0.57
1:F:272:ASN:ND2	1:Q:474:ALA:H	2.03	0.57
1:J:320:ILE:HD13	1:J:342:ILE:HD11	1.87	0.57
1:K:474:ALA:H	1:a:272:ASN:ND2	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:349:GLU:OE1	1:Z:351:GLN:NE2	2.37	0.57
1:d:226:SER:HG	1:d:319:ASN:H	1.49	0.57
1:p:703:THR:OG1	1:s:703:THR:OG1	2.23	0.57
1:s:349:GLU:OE1	1:s:351:GLN:NE2	2.37	0.57
1:y:253:TYR:OH	1:y:374:ILE:O	2.21	0.57
1:2:320:ILE:HD13	1:2:342:ILE:HD11	1.87	0.57
1:A:474:ALA:H	1:G:272:ASN:ND2	2.03	0.57
1:F:230:HIS:O	1:F:245:THR:OG1	2.19	0.57
1:F:253:TYR:OH	1:F:374:ILE:O	2.21	0.57
1:J:224:ASN:OD1	1:a:409:ASN:ND2	2.29	0.57
1:J:230:HIS:O	1:J:245:THR:OG1	2.19	0.57
1:M:349:GLU:OE1	1:M:351:GLN:NE2	2.37	0.57
1:Q:355:VAL:H	1:Q:647:GLN:NE2	2.03	0.57
1:U:349:GLU:OE1	1:U:351:GLN:NE2	2.37	0.57
1:W:253:TYR:OH	1:W:374:ILE:O	2.21	0.57
1:Y:230:HIS:O	1:Y:245:THR:OG1	2.19	0.57
1:d:320:ILE:HD13	1:d:342:ILE:HD11	1.86	0.57
1:h:349:GLU:OE1	1:h:351:GLN:NE2	2.37	0.57
1:j:224:ASN:OD1	1:x:409:ASN:ND2	2.29	0.57
1:n:320:ILE:HD13	1:n:342:ILE:HD11	1.86	0.57
1:p:349:GLU:OE1	1:p:351:GLN:NE2	2.37	0.57
1:x:474:ALA:H	1:y:272:ASN:ND2	2.03	0.57
1:y:230:HIS:O	1:y:245:THR:OG1	2.19	0.57
1:L:349:GLU:OE1	1:L:351:GLN:NE2	2.37	0.57
1:P:224:ASN:OD1	1:Q:409:ASN:ND2	2.30	0.57
1:P:355:VAL:H	1:P:647:GLN:NE2	2.03	0.57
1:V:349:GLU:OE1	1:V:351:GLN:NE2	2.37	0.57
1:h:703:THR:OG1	1:k:703:THR:OG1	2.22	0.57
1:j:703:THR:OG1	1:w:703:THR:OG1	2.22	0.57
1:q:355:VAL:H	1:q:647:GLN:NE2	2.03	0.57
1:x:355:VAL:H	1:x:647:GLN:NE2	2.03	0.57
1:3:320:ILE:HD13	1:3:342:ILE:HD11	1.86	0.57
1:6:253:TYR:OH	1:6:374:ILE:O	2.21	0.57
1:E:320:ILE:HD13	1:E:342:ILE:HD11	1.86	0.57
1:I:320:ILE:HD13	1:I:342:ILE:HD11	1.86	0.57
1:J:703:THR:OG1	1:K:703:THR:OG1	2.23	0.57
1:O:272:ASN:ND2	1:n:474:ALA:H	2.03	0.57
1:R:355:VAL:H	1:R:647:GLN:NE2	2.03	0.57
1:T:474:ALA:H	1:d:272:ASN:ND2	2.03	0.57
1:a:320:ILE:HD13	1:a:342:ILE:HD11	1.86	0.57
1:a:355:VAL:H	1:a:647:GLN:NE2	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:474:ALA:H	1:l:272:ASN:ND2	2.03	0.57
1:f:349:GLU:OE1	1:f:351:GLN:NE2	2.37	0.57
1:j:355:VAL:H	1:j:647:GLN:NE2	2.03	0.57
1:o:355:VAL:H	1:o:647:GLN:NE2	2.03	0.57
1:2:224:ASN:OD1	1:3:409:ASN:ND2	2.29	0.57
1:3:253:TYR:OH	1:3:374:ILE:O	2.21	0.57
1:3:355:VAL:H	1:3:647:GLN:NE2	2.03	0.57
1:I:224:ASN:OD1	1:J:409:ASN:ND2	2.29	0.57
1:K:355:VAL:H	1:K:647:GLN:NE2	2.03	0.57
1:M:272:ASN:ND2	1:b:474:ALA:H	2.03	0.57
1:T:272:ASN:ND2	1:l:474:ALA:H	2.03	0.57
1:V:474:ALA:H	1:e:272:ASN:ND2	2.03	0.57
1:Z:272:ASN:ND2	1:3:474:ALA:H	2.03	0.57
1:Z:320:ILE:HD13	1:Z:342:ILE:HD11	1.86	0.57
1:a:253:TYR:OH	1:a:374:ILE:O	2.21	0.57
1:a:474:ALA:H	1:8:272:ASN:ND2	2.03	0.57
1:b:349:GLU:OE1	1:b:351:GLN:NE2	2.37	0.57
1:i:272:ASN:ND2	1:k:474:ALA:H	2.03	0.57
1:m:474:ALA:H	1:n:272:ASN:ND2	2.03	0.57
1:q:703:THR:OG1	1:x:703:THR:OG1	2.23	0.57
1:t:272:ASN:ND2	1:v:474:ALA:H	2.03	0.57
1:u:320:ILE:HD13	1:u:342:ILE:HD11	1.86	0.57
1:w:320:ILE:HD13	1:w:342:ILE:HD11	1.86	0.57
1:z:349:GLU:OE1	1:z:351:GLN:NE2	2.37	0.57
1:2:230:HIS:O	1:2:245:THR:OG1	2.19	0.57
1:2:703:THR:OG1	1:4:703:THR:OG1	2.23	0.57
1:4:355:VAL:H	1:4:647:GLN:NE2	2.03	0.57
1:8:320:ILE:HD13	1:8:342:ILE:HD11	1.86	0.57
1:B:355:VAL:H	1:B:647:GLN:NE2	2.03	0.56
1:D:474:ALA:H	1:N:272:ASN:ND2	2.03	0.56
1:O:474:ALA:H	1:m:272:ASN:ND2	2.03	0.56
1:T:320:ILE:HD13	1:T:342:ILE:HD11	1.86	0.56
1:V:355:VAL:H	1:V:647:GLN:NE2	2.03	0.56
1:X:355:VAL:H	1:X:647:GLN:NE2	2.03	0.56
1:c:272:ASN:ND2	1:p:474:ALA:H	2.03	0.56
1:d:253:TYR:OH	1:d:374:ILE:O	2.21	0.56
1:f:474:ALA:H	1:h:272:ASN:ND2	2.03	0.56
1:g:272:ASN:ND2	1:h:474:ALA:H	2.03	0.56
1:l:320:ILE:HD13	1:l:342:ILE:HD11	1.86	0.56
1:m:320:ILE:HD13	1:m:342:ILE:HD11	1.86	0.56
1:p:355:VAL:H	1:p:647:GLN:NE2	2.03	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:355:VAL:H	1:1:647:GLN:NE2	2.03	0.56
1:5:253:TYR:OH	1:5:374:ILE:O	2.21	0.56
1:5:409:ASN:ND2	1:8:224:ASN:OD1	2.29	0.56
1:B:409:ASN:ND2	1:C:224:ASN:OD1	2.30	0.56
1:C:272:ASN:ND2	1:M:474:ALA:H	2.03	0.56
1:O:253:TYR:OH	1:O:374:ILE:O	2.21	0.56
1:b:355:VAL:H	1:b:647:GLN:NE2	2.03	0.56
1:l:253:TYR:OH	1:l:374:ILE:O	2.21	0.56
1:z:230:HIS:O	1:z:245:THR:OG1	2.19	0.56
1:C:474:ALA:H	1:b:272:ASN:ND2	2.03	0.56
1:D:703:THR:OG1	1:M:703:THR:OG1	2.22	0.56
1:E:272:ASN:ND2	1:F:474:ALA:H	2.03	0.56
1:H:253:TYR:OH	1:H:374:ILE:O	2.21	0.56
1:H:409:ASN:ND2	1:Z:224:ASN:OD1	2.29	0.56
1:L:230:HIS:O	1:L:245:THR:OG1	2.19	0.56
1:N:591:ALA:HA	1:P:499:ASN:ND2	2.19	0.56
1:O:320:ILE:HD13	1:O:342:ILE:HD11	1.86	0.56
1:Q:703:THR:OG1	1:R:703:THR:OG1	2.23	0.56
1:S:320:ILE:HD13	1:S:342:ILE:HD11	1.86	0.56
1:W:355:VAL:H	1:W:647:GLN:NE2	2.03	0.56
1:c:355:VAL:H	1:c:647:GLN:NE2	2.03	0.56
1:e:355:VAL:H	1:e:647:GLN:NE2	2.03	0.56
1:f:355:VAL:H	1:f:647:GLN:NE2	2.03	0.56
1:h:253:TYR:OH	1:h:374:ILE:O	2.21	0.56
1:h:355:VAL:H	1:h:647:GLN:NE2	2.03	0.56
1:j:474:ALA:H	1:k:272:ASN:ND2	2.03	0.56
1:n:253:TYR:OH	1:n:374:ILE:O	2.21	0.56
1:o:226:SER:HG	1:o:319:ASN:H	1.52	0.56
1:q:564:GLU:OE2	1:q:614:TYR:OH	2.15	0.56
1:r:253:TYR:OH	1:r:374:ILE:O	2.21	0.56
1:r:474:ALA:H	1:s:272:ASN:ND2	2.03	0.56
1:t:564:GLU:OE2	1:t:614:TYR:OH	2.15	0.56
1:u:224:ASN:OD1	1:2:409:ASN:ND2	2.29	0.56
1:w:272:ASN:ND2	1:y:474:ALA:H	2.03	0.56
1:x:564:GLU:OE2	1:x:614:TYR:OH	2.15	0.56
1:z:253:TYR:OH	1:z:374:ILE:O	2.21	0.56
1:z:272:ASN:ND2	1:2:474:ALA:H	2.03	0.56
1:5:272:ASN:ND2	1:7:474:ALA:H	2.02	0.56
1:6:355:VAL:H	1:6:647:GLN:NE2	2.03	0.56
1:G:703:THR:OG1	1:H:703:THR:OG1	2.22	0.56
1:H:272:ASN:ND2	1:Y:474:ALA:H	2.02	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:320:ILE:HD13	1:K:342:ILE:HD11	1.86	0.56
1:M:253:TYR:OH	1:M:374:ILE:O	2.21	0.56
1:P:373:MET:HE3	1:Q:663:PHE:HA	1.86	0.56
1:R:253:TYR:OH	1:R:374:ILE:O	2.21	0.56
1:S:253:TYR:OH	1:S:374:ILE:O	2.21	0.56
1:Y:355:VAL:H	1:Y:647:GLN:NE2	2.03	0.56
1:Z:474:ALA:H	1:4:272:ASN:ND2	2.03	0.56
1:f:272:ASN:ND2	1:g:474:ALA:H	2.03	0.56
1:r:320:ILE:HD13	1:r:342:ILE:HD11	1.87	0.56
1:x:253:TYR:OH	1:x:374:ILE:O	2.21	0.56
1:2:253:TYR:OH	1:2:374:ILE:O	2.21	0.56
1:4:253:TYR:OH	1:4:374:ILE:O	2.21	0.56
1:6:474:ALA:H	1:7:272:ASN:ND2	2.03	0.56
1:7:320:ILE:HD13	1:7:342:ILE:HD11	1.86	0.56
1:J:253:TYR:OH	1:J:374:ILE:O	2.21	0.56
1:J:474:ALA:H	1:L:272:ASN:ND2	2.03	0.56
1:L:253:TYR:OH	1:L:374:ILE:O	2.21	0.56
1:M:355:VAL:H	1:M:647:GLN:NE2	2.03	0.56
1:S:474:ALA:H	1:U:272:ASN:ND2	2.03	0.56
1:U:355:VAL:H	1:U:647:GLN:NE2	2.03	0.56
1:V:320:ILE:HD13	1:V:342:ILE:HD11	1.86	0.56
1:W:474:ALA:H	1:Y:272:ASN:ND2	2.03	0.56
1:X:226:SER:HG	1:X:319:ASN:H	1.52	0.56
1:X:272:ASN:ND2	1:e:474:ALA:H	2.03	0.56
1:Y:320:ILE:HD13	1:Y:342:ILE:HD11	1.86	0.56
1:c:474:ALA:H	1:o:272:ASN:ND2	2.03	0.56
1:l:355:VAL:H	1:l:647:GLN:NE2	2.03	0.56
1:n:226:SER:HG	1:n:319:ASN:H	1.50	0.56
1:p:320:ILE:HD13	1:p:342:ILE:HD11	1.86	0.56
1:q:253:TYR:OH	1:q:374:ILE:O	2.21	0.56
1:q:320:ILE:HD13	1:q:342:ILE:HD11	1.86	0.56
1:s:355:VAL:H	1:s:647:GLN:NE2	2.03	0.56
1:4:320:ILE:HD13	1:4:342:ILE:HD11	1.86	0.56
1:7:355:VAL:H	1:7:647:GLN:NE2	2.03	0.56
1:7:564:GLU:OE2	1:7:614:TYR:OH	2.15	0.56
1:H:320:ILE:HD13	1:H:342:ILE:HD11	1.86	0.56
1:H:355:VAL:H	1:H:647:GLN:NE2	2.03	0.56
1:I:355:VAL:H	1:I:647:GLN:NE2	2.03	0.56
1:K:272:ASN:ND2	1:8:474:ALA:H	2.03	0.56
1:O:355:VAL:H	1:O:647:GLN:NE2	2.03	0.56
1:Q:564:GLU:OE2	1:Q:614:TYR:OH	2.15	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:320:ILE:HD13	1:R:342:ILE:HD11	1.86	0.56
1:R:409:ASN:ND2	1:V:224:ASN:OD1	2.30	0.56
1:R:564:GLU:OE2	1:R:614:TYR:OH	2.15	0.56
1:S:355:VAL:H	1:S:647:GLN:NE2	2.03	0.56
1:Y:253:TYR:OH	1:Y:374:ILE:O	2.21	0.56
1:b:320:ILE:HD13	1:b:342:ILE:HD11	1.86	0.56
1:c:253:TYR:OH	1:c:374:ILE:O	2.21	0.56
1:o:320:ILE:HD13	1:o:342:ILE:HD11	1.86	0.56
1:r:355:VAL:H	1:r:647:GLN:NE2	2.03	0.56
1:C:355:VAL:H	1:C:647:GLN:NE2	2.03	0.56
1:J:355:VAL:H	1:J:647:GLN:NE2	2.03	0.56
1:K:253:TYR:OH	1:K:374:ILE:O	2.21	0.56
1:Q:253:TYR:OH	1:Q:374:ILE:O	2.21	0.56
1:V:272:ASN:ND2	1:X:474:ALA:H	2.03	0.56
1:X:320:ILE:HD13	1:X:342:ILE:HD11	1.86	0.56
1:f:320:ILE:HD13	1:f:342:ILE:HD11	1.86	0.56
1:p:224:ASN:OD1	1:q:409:ASN:ND2	2.30	0.56
1:t:474:ALA:H	1:u:272:ASN:ND2	2.03	0.56
1:u:355:VAL:H	1:u:647:GLN:NE2	2.03	0.56
1:4:230:HIS:O	1:4:245:THR:OG1	2.19	0.56
1:5:320:ILE:HD13	1:5:342:ILE:HD11	1.86	0.56
1:5:355:VAL:H	1:5:647:GLN:NE2	2.03	0.56
1:U:253:TYR:OH	1:U:374:ILE:O	2.21	0.56
1:e:253:TYR:OH	1:e:374:ILE:O	2.21	0.56
1:e:703:THR:OG1	1:f:703:THR:OG1	2.22	0.56
1:m:230:HIS:O	1:m:245:THR:OG1	2.19	0.56
1:u:703:THR:OG1	1:1:703:THR:OG1	2.23	0.56
1:2:355:VAL:H	1:2:647:GLN:NE2	2.03	0.56
1:A:355:VAL:H	1:A:647:GLN:NE2	2.03	0.56
1:F:355:VAL:H	1:F:647:GLN:NE2	2.03	0.56
1:G:474:ALA:H	1:I:272:ASN:ND2	2.03	0.56
1:I:567:ILE:HD12	1:I:571:ASN:HD22	1.71	0.56
1:g:355:VAL:H	1:g:647:GLN:NE2	2.03	0.56
1:l:409:ASN:ND2	1:n:224:ASN:OD1	2.29	0.56
1:o:474:ALA:H	1:p:272:ASN:ND2	2.03	0.56
1:v:355:VAL:H	1:v:647:GLN:NE2	2.03	0.56
1:w:474:ALA:H	1:x:272:ASN:ND2	2.03	0.56
1:5:564:GLU:OE2	1:5:614:TYR:OH	2.15	0.56
1:E:474:ALA:H	1:Q:272:ASN:ND2	2.03	0.56
1:H:567:ILE:HD12	1:H:571:ASN:HD22	1.71	0.56
1:O:567:ILE:HD12	1:O:571:ASN:HD22	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:224:ASN:OD1	1:S:409:ASN:ND2	2.30	0.56
1:R:272:ASN:ND2	1:U:474:ALA:H	2.03	0.56
1:S:230:HIS:O	1:S:245:THR:OG1	2.19	0.56
1:T:230:HIS:O	1:T:245:THR:OG1	2.19	0.56
1:Y:564:GLU:OE2	1:Y:614:TYR:OH	2.15	0.56
1:b:703:THR:OG1	1:c:703:THR:OG1	2.22	0.56
1:e:290:HIS:HD2	1:e:366:PRO:HA	1.71	0.56
1:j:253:TYR:OH	1:j:374:ILE:O	2.21	0.56
1:l:567:ILE:HD12	1:l:571:ASN:HD22	1.71	0.56
1:r:230:HIS:O	1:r:245:THR:OG1	2.19	0.56
1:t:703:THR:OG1	1:5:703:THR:OG1	2.22	0.56
1:u:567:ILE:HD12	1:u:571:ASN:HD22	1.71	0.56
1:y:355:VAL:H	1:y:647:GLN:NE2	2.03	0.56
1:5:567:ILE:HD12	1:5:571:ASN:HD22	1.71	0.56
1:G:355:VAL:H	1:G:647:GLN:NE2	2.03	0.55
1:I:564:GLU:OE2	1:I:614:TYR:OH	2.15	0.55
1:K:230:HIS:O	1:K:245:THR:OG1	2.19	0.55
1:R:290:HIS:HD2	1:R:366:PRO:HA	1.72	0.55
1:c:290:HIS:HD2	1:c:366:PRO:HA	1.72	0.55
1:d:355:VAL:H	1:d:647:GLN:NE2	2.03	0.55
1:i:253:TYR:OH	1:i:374:ILE:O	2.21	0.55
1:j:564:GLU:OE2	1:j:614:TYR:OH	2.15	0.55
1:m:355:VAL:H	1:m:647:GLN:NE2	2.03	0.55
1:q:272:ASN:ND2	1:s:474:ALA:H	2.03	0.55
1:r:409:ASN:ND2	1:x:224:ASN:OD1	2.29	0.55
1:8:290:HIS:HD2	1:8:366:PRO:HA	1.72	0.55
1:D:290:HIS:HD2	1:D:366:PRO:HA	1.72	0.55
1:D:567:ILE:HD12	1:D:571:ASN:HD22	1.71	0.55
1:G:567:ILE:HD12	1:G:571:ASN:HD22	1.71	0.55
1:H:474:ALA:H	1:W:272:ASN:ND2	2.03	0.55
1:O:288:ARG:HH21	1:O:616:GLN:HB3	1.72	0.55
1:O:409:ASN:ND2	1:d:224:ASN:OD1	2.29	0.55
1:P:253:TYR:OH	1:P:374:ILE:O	2.21	0.55
1:Q:567:ILE:HD12	1:Q:571:ASN:HD22	1.71	0.55
1:Y:703:THR:OG1	1:Z:703:THR:OG1	2.23	0.55
1:Z:290:HIS:HD2	1:Z:366:PRO:HA	1.72	0.55
1:j:290:HIS:HD2	1:j:366:PRO:HA	1.72	0.55
1:n:290:HIS:HD2	1:n:366:PRO:HA	1.71	0.55
1:q:290:HIS:HD2	1:q:366:PRO:HA	1.72	0.55
1:t:355:VAL:H	1:t:647:GLN:NE2	2.03	0.55
1:v:290:HIS:HD2	1:v:366:PRO:HA	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:567:ILE:HD12	1:y:571:ASN:HD22	1.71	0.55
1:A:290:HIS:HD2	1:A:366:PRO:HA	1.72	0.55
1:B:230:HIS:O	1:B:245:THR:OG1	2.19	0.55
1:F:567:ILE:HD12	1:F:571:ASN:HD22	1.71	0.55
1:H:564:GLU:OE2	1:H:614:TYR:OH	2.15	0.55
1:I:288:ARG:HH21	1:I:616:GLN:HB3	1.72	0.55
1:J:290:HIS:HD2	1:J:366:PRO:HA	1.72	0.55
1:N:355:VAL:H	1:N:647:GLN:NE2	2.03	0.55
1:P:290:HIS:HD2	1:P:366:PRO:HA	1.72	0.55
1:P:564:GLU:OE2	1:P:614:TYR:OH	2.15	0.55
1:S:567:ILE:HD12	1:S:571:ASN:HD22	1.71	0.55
1:T:355:VAL:H	1:T:647:GLN:NE2	2.03	0.55
1:d:290:HIS:HD2	1:d:366:PRO:HA	1.71	0.55
1:k:290:HIS:HD2	1:k:366:PRO:HA	1.72	0.55
1:k:567:ILE:HD12	1:k:571:ASN:HD22	1.71	0.55
1:l:288:ARG:HH21	1:l:616:GLN:HB3	1.72	0.55
1:n:355:VAL:H	1:n:647:GLN:NE2	2.03	0.55
1:t:567:ILE:HD12	1:t:571:ASN:HD22	1.71	0.55
1:x:567:ILE:HD12	1:x:571:ASN:HD22	1.71	0.55
1:5:474:ALA:H	1:6:272:ASN:ND2	2.03	0.55
1:7:230:HIS:O	1:7:245:THR:OG1	2.19	0.55
1:7:703:THR:OG1	1:8:703:THR:OG1	2.23	0.55
1:C:226:SER:HG	1:C:319:ASN:H	1.50	0.55
1:F:288:ARG:HH21	1:F:616:GLN:HB3	1.72	0.55
1:F:290:HIS:HD2	1:F:366:PRO:HA	1.72	0.55
1:L:355:VAL:H	1:L:647:GLN:NE2	2.03	0.55
1:N:253:TYR:OH	1:N:374:ILE:O	2.21	0.55
1:k:230:HIS:O	1:k:245:THR:OG1	2.19	0.55
1:r:564:GLU:OE2	1:r:614:TYR:OH	2.15	0.55
1:r:567:ILE:HD12	1:r:571:ASN:HD22	1.71	0.55
1:u:288:ARG:HH21	1:u:616:GLN:HB3	1.72	0.55
1:y:288:ARG:HH21	1:y:616:GLN:HB3	1.72	0.55
1:y:290:HIS:HD2	1:y:366:PRO:HA	1.72	0.55
1:2:290:HIS:HD2	1:2:366:PRO:HA	1.72	0.55
1:6:290:HIS:HD2	1:6:366:PRO:HA	1.72	0.55
1:8:355:VAL:H	1:8:647:GLN:NE2	2.03	0.55
1:B:290:HIS:HD2	1:B:366:PRO:HA	1.72	0.55
1:B:567:ILE:HD12	1:B:571:ASN:HD22	1.71	0.55
1:E:703:THR:OG1	1:P:703:THR:OG1	2.25	0.55
1:K:290:HIS:HD2	1:K:366:PRO:HA	1.72	0.55
1:L:290:HIS:HD2	1:L:366:PRO:HA	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:703:THR:OG1	1:O:703:THR:OG1	2.22	0.55
1:R:288:ARG:HH21	1:R:616:GLN:HB3	1.72	0.55
1:U:288:ARG:HH21	1:U:616:GLN:HB3	1.72	0.55
1:W:290:HIS:HD2	1:W:366:PRO:HA	1.72	0.55
1:W:567:ILE:HD12	1:W:571:ASN:HD22	1.71	0.55
1:Z:567:ILE:HD12	1:Z:571:ASN:HD22	1.71	0.55
1:a:567:ILE:HD12	1:a:571:ASN:HD22	1.71	0.55
1:h:290:HIS:HD2	1:h:366:PRO:HA	1.72	0.55
1:i:290:HIS:HD2	1:i:366:PRO:HA	1.72	0.55
1:s:288:ARG:HH21	1:s:616:GLN:HB3	1.72	0.55
1:t:230:HIS:O	1:t:245:THR:OG1	2.19	0.55
1:u:474:ALA:H	1:v:272:ASN:ND2	2.03	0.55
1:x:288:ARG:HH21	1:x:616:GLN:HB3	1.72	0.55
1:z:355:VAL:H	1:z:647:GLN:NE2	2.03	0.55
1:z:564:GLU:OE2	1:z:614:TYR:OH	2.15	0.55
1:1:290:HIS:HD2	1:1:366:PRO:HA	1.72	0.55
1:1:567:ILE:HD12	1:1:571:ASN:HD22	1.71	0.55
1:2:567:ILE:HD12	1:2:571:ASN:HD22	1.71	0.55
1:3:567:ILE:HD12	1:3:571:ASN:HD22	1.71	0.55
1:4:290:HIS:HD2	1:4:366:PRO:HA	1.72	0.55
1:6:230:HIS:O	1:6:245:THR:OG1	2.19	0.55
1:6:567:ILE:HD12	1:6:571:ASN:HD22	1.71	0.55
1:D:230:HIS:O	1:D:245:THR:OG1	2.19	0.55
1:D:499:ASN:ND2	1:P:591:ALA:HA	2.21	0.55
1:H:288:ARG:HH21	1:H:616:GLN:HB3	1.72	0.55
1:J:567:ILE:HD12	1:J:571:ASN:HD22	1.71	0.55
1:M:288:ARG:HH21	1:M:616:GLN:HB3	1.72	0.55
1:M:290:HIS:HD2	1:M:366:PRO:HA	1.72	0.55
1:N:290:HIS:HD2	1:N:366:PRO:HA	1.72	0.55
1:Q:288:ARG:HH21	1:Q:616:GLN:HB3	1.72	0.55
1:V:567:ILE:HD12	1:V:571:ASN:HD22	1.71	0.55
1:W:230:HIS:O	1:W:245:THR:OG1	2.19	0.55
1:W:703:THR:OG1	1:X:703:THR:OG1	2.22	0.55
1:Z:253:TYR:OH	1:Z:374:ILE:O	2.21	0.55
1:Z:355:VAL:H	1:Z:647:GLN:NE2	2.03	0.55
1:a:288:ARG:HH21	1:a:616:GLN:HB3	1.72	0.55
1:b:288:ARG:HH21	1:b:616:GLN:HB3	1.72	0.55
1:f:288:ARG:HH21	1:f:616:GLN:HB3	1.72	0.55
1:g:290:HIS:HD2	1:g:366:PRO:HA	1.72	0.55
1:h:288:ARG:HH21	1:h:616:GLN:HB3	1.72	0.55
1:i:355:VAL:H	1:i:647:GLN:NE2	2.03	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:288:ARG:HH21	1:q:616:GLN:HB3	1.72	0.55
1:z:290:HIS:HD2	1:z:366:PRO:HA	1.72	0.55
1:5:288:ARG:HH21	1:5:616:GLN:HB3	1.72	0.55
1:8:567:ILE:HD12	1:8:571:ASN:HD22	1.71	0.55
1:C:290:HIS:HD2	1:C:366:PRO:HA	1.72	0.55
1:D:288:ARG:HH21	1:D:616:GLN:HB3	1.72	0.55
1:G:290:HIS:HD2	1:G:366:PRO:HA	1.71	0.55
1:S:564:GLU:OE2	1:S:614:TYR:OH	2.15	0.55
1:a:703:THR:OG1	1:3:703:THR:OG1	2.23	0.55
1:g:226:SER:HG	1:g:319:ASN:H	1.50	0.55
1:p:290:HIS:HD2	1:p:366:PRO:HA	1.72	0.55
1:s:253:TYR:OH	1:s:374:ILE:O	2.21	0.55
1:t:290:HIS:HD2	1:t:366:PRO:HA	1.72	0.55
1:3:288:ARG:HH21	1:3:616:GLN:HB3	1.72	0.55
1:8:288:ARG:HH21	1:8:616:GLN:HB3	1.72	0.55
1:A:272:ASN:ND2	1:I:474:ALA:H	2.03	0.55
1:S:290:HIS:HD2	1:S:366:PRO:HA	1.72	0.55
1:V:290:HIS:HD2	1:V:366:PRO:HA	1.72	0.55
1:Z:288:ARG:HH21	1:Z:616:GLN:HB3	1.72	0.55
1:c:567:ILE:HD12	1:c:571:ASN:HD22	1.71	0.55
1:e:567:ILE:HD12	1:e:571:ASN:HD22	1.71	0.55
1:f:567:ILE:HD12	1:f:571:ASN:HD22	1.71	0.55
1:k:288:ARG:HH21	1:k:616:GLN:HB3	1.72	0.55
1:o:703:THR:OG1	1:6:703:THR:OG1	2.22	0.55
1:p:567:ILE:HD12	1:p:571:ASN:HD22	1.71	0.55
1:r:290:HIS:HD2	1:r:366:PRO:HA	1.72	0.55
1:D:353:PRO:HB3	1:P:430:GLN:NE2	2.22	0.55
1:D:355:VAL:H	1:D:647:GLN:NE2	2.03	0.55
1:S:288:ARG:HH21	1:S:616:GLN:HB3	1.72	0.55
1:b:567:ILE:HD12	1:b:571:ASN:HD22	1.71	0.55
1:l:290:HIS:HD2	1:l:366:PRO:HA	1.72	0.55
1:p:288:ARG:HH21	1:p:616:GLN:HB3	1.72	0.55
1:7:288:ARG:HH21	1:7:616:GLN:HB3	1.72	0.55
1:8:253:TYR:OH	1:8:374:ILE:O	2.21	0.55
1:G:230:HIS:O	1:G:245:THR:OG1	2.19	0.55
1:L:567:ILE:HD12	1:L:571:ASN:HD22	1.71	0.55
1:P:567:ILE:HD12	1:P:571:ASN:HD22	1.71	0.55
1:V:288:ARG:HH21	1:V:616:GLN:HB3	1.72	0.55
1:Y:288:ARG:HH21	1:Y:616:GLN:HB3	1.72	0.55
1:Y:567:ILE:HD12	1:Y:571:ASN:HD22	1.71	0.55
1:f:290:HIS:HD2	1:f:366:PRO:HA	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:355:VAL:H	1:k:647:GLN:NE2	2.03	0.55
1:r:288:ARG:HH21	1:r:616:GLN:HB3	1.72	0.55
1:7:567:ILE:HD12	1:7:571:ASN:HD22	1.71	0.55
1:A:567:ILE:HD12	1:A:571:ASN:HD22	1.71	0.54
1:F:691:GLU:HG3	1:F:733:LEU:HD23	1.90	0.54
1:L:288:ARG:HH21	1:L:616:GLN:HB3	1.72	0.54
1:O:290:HIS:HD2	1:O:366:PRO:HA	1.72	0.54
1:P:691:GLU:HG3	1:P:733:LEU:HD23	1.90	0.54
1:U:290:HIS:HD2	1:U:366:PRO:HA	1.72	0.54
1:X:691:GLU:HG3	1:X:733:LEU:HD23	1.90	0.54
1:b:224:ASN:OD1	1:o:409:ASN:ND2	2.29	0.54
1:d:567:ILE:HD12	1:d:571:ASN:HD22	1.71	0.54
1:e:288:ARG:HH21	1:e:616:GLN:HB3	1.72	0.54
1:i:703:THR:OG1	1:l:703:THR:OG1	2.23	0.54
1:j:691:GLU:HG3	1:j:733:LEU:HD23	1.90	0.54
1:o:691:GLU:HG3	1:o:733:LEU:HD23	1.90	0.54
1:s:290:HIS:HD2	1:s:366:PRO:HA	1.72	0.54
1:1:288:ARG:HH21	1:1:616:GLN:HB3	1.72	0.54
1:3:290:HIS:HD2	1:3:366:PRO:HA	1.71	0.54
1:B:288:ARG:HH21	1:B:616:GLN:HB3	1.72	0.54
1:C:703:THR:OG1	1:L:703:THR:OG1	2.23	0.54
1:E:691:GLU:HG3	1:E:733:LEU:HD23	1.90	0.54
1:H:290:HIS:HD2	1:H:366:PRO:HA	1.72	0.54
1:H:691:GLU:HG3	1:H:733:LEU:HD23	1.90	0.54
1:T:288:ARG:HH21	1:T:616:GLN:HB3	1.72	0.54
1:a:290:HIS:HD2	1:a:366:PRO:HA	1.71	0.54
1:b:290:HIS:HD2	1:b:366:PRO:HA	1.72	0.54
1:c:288:ARG:HH21	1:c:616:GLN:HB3	1.72	0.54
1:g:703:THR:OG1	1:z:703:THR:OG1	2.23	0.54
1:i:691:GLU:HG3	1:i:733:LEU:HD23	1.89	0.54
1:j:567:ILE:HD12	1:j:571:ASN:HD22	1.71	0.54
1:m:288:ARG:HH21	1:m:616:GLN:HB3	1.72	0.54
1:n:691:GLU:HG3	1:n:733:LEU:HD23	1.89	0.54
1:w:691:GLU:HG3	1:w:733:LEU:HD23	1.90	0.54
1:x:290:HIS:HD2	1:x:366:PRO:HA	1.72	0.54
1:x:691:GLU:HG3	1:x:733:LEU:HD23	1.89	0.54
1:y:691:GLU:HG3	1:y:733:LEU:HD23	1.90	0.54
1:z:288:ARG:HH21	1:z:616:GLN:HB3	1.72	0.54
1:z:567:ILE:HD12	1:z:571:ASN:HD22	1.71	0.54
1:5:691:GLU:HG3	1:5:733:LEU:HD23	1.90	0.54
1:P:226:SER:HG	1:P:319:ASN:H	1.55	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:290:HIS:HD2	1:Q:366:PRO:HA	1.72	0.54
1:Q:691:GLU:HG3	1:Q:733:LEU:HD23	1.90	0.54
1:T:290:HIS:HD2	1:T:366:PRO:HA	1.72	0.54
1:U:567:ILE:HD12	1:U:571:ASN:HD22	1.71	0.54
1:i:288:ARG:HH21	1:i:616:GLN:HB3	1.72	0.54
1:j:226:SER:HG	1:j:319:ASN:H	1.55	0.54
1:n:567:ILE:HD12	1:n:571:ASN:HD22	1.71	0.54
1:u:290:HIS:HD2	1:u:366:PRO:HA	1.72	0.54
1:5:290:HIS:HD2	1:5:366:PRO:HA	1.72	0.54
1:C:691:GLU:HG3	1:C:733:LEU:HD23	1.90	0.54
1:I:290:HIS:HD2	1:I:366:PRO:HA	1.72	0.54
1:J:691:GLU:HG3	1:J:733:LEU:HD23	1.90	0.54
1:N:691:GLU:HG3	1:N:733:LEU:HD23	1.90	0.54
1:O:708:LYS:HD2	1:P:387:GLN:OE1	2.08	0.54
1:P:251:PRO:HB3	1:Q:659:PRO:HG2	1.90	0.54
1:Q:230:HIS:O	1:Q:245:THR:OG1	2.19	0.54
1:S:703:THR:OG1	1:T:703:THR:OG1	2.23	0.54
1:Y:290:HIS:HD2	1:Y:366:PRO:HA	1.72	0.54
1:Z:691:GLU:HG3	1:Z:733:LEU:HD23	1.89	0.54
1:b:230:HIS:O	1:b:245:THR:OG1	2.19	0.54
1:d:691:GLU:HG3	1:d:733:LEU:HD23	1.90	0.54
1:g:691:GLU:HG3	1:g:733:LEU:HD23	1.90	0.54
1:m:290:HIS:HD2	1:m:366:PRO:HA	1.72	0.54
1:m:703:THR:OG1	1:r:703:THR:OG1	2.23	0.54
1:s:230:HIS:O	1:s:245:THR:OG1	2.19	0.54
1:v:567:ILE:HD12	1:v:571:ASN:HD22	1.71	0.54
1:v:703:THR:OG1	1:y:703:THR:OG1	2.23	0.54
1:2:288:ARG:HH21	1:2:616:GLN:HB3	1.72	0.54
1:2:691:GLU:HG3	1:2:733:LEU:HD23	1.90	0.54
1:6:691:GLU:HG3	1:6:733:LEU:HD23	1.89	0.54
1:7:290:HIS:HD2	1:7:366:PRO:HA	1.72	0.54
1:8:691:GLU:HG3	1:8:733:LEU:HD23	1.89	0.54
1:A:288:ARG:HH21	1:A:616:GLN:HB3	1.72	0.54
1:E:567:ILE:HD12	1:E:571:ASN:HD22	1.71	0.54
1:J:288:ARG:HH21	1:J:616:GLN:HB3	1.72	0.54
1:K:288:ARG:HH21	1:K:616:GLN:HB3	1.72	0.54
1:N:288:ARG:HH21	1:N:616:GLN:HB3	1.72	0.54
1:W:691:GLU:HG3	1:W:733:LEU:HD23	1.89	0.54
1:X:409:ASN:ND2	1:f:224:ASN:OD1	2.29	0.54
1:c:691:GLU:HG3	1:c:733:LEU:HD23	1.90	0.54
1:e:691:GLU:HG3	1:e:733:LEU:HD23	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:230:HIS:O	1:f:245:THR:OG1	2.19	0.54
1:i:567:ILE:HD12	1:i:571:ASN:HD22	1.71	0.54
1:p:226:SER:HG	1:p:319:ASN:H	1.55	0.54
1:s:567:ILE:HD12	1:s:571:ASN:HD22	1.71	0.54
1:w:567:ILE:HD12	1:w:571:ASN:HD22	1.71	0.54
1:z:691:GLU:HG3	1:z:733:LEU:HD23	1.90	0.54
1:L:691:GLU:HG3	1:L:733:LEU:HD23	1.90	0.54
1:U:230:HIS:O	1:U:245:THR:OG1	2.19	0.54
1:g:288:ARG:HH21	1:g:616:GLN:HB3	1.72	0.54
1:o:288:ARG:HH21	1:o:616:GLN:HB3	1.72	0.54
1:v:288:ARG:HH21	1:v:616:GLN:HB3	1.72	0.54
1:x:230:HIS:O	1:x:245:THR:OG1	2.19	0.54
1:4:567:ILE:HD12	1:4:571:ASN:HD22	1.71	0.54
1:4:691:GLU:HG3	1:4:733:LEU:HD23	1.89	0.54
1:E:290:HIS:HD2	1:E:366:PRO:HA	1.72	0.54
1:I:288:ARG:CZ	1:I:290:HIS:HE1	2.21	0.54
1:J:288:ARG:CZ	1:J:290:HIS:HE1	2.21	0.54
1:K:567:ILE:HD12	1:K:571:ASN:HD22	1.71	0.54
1:K:691:GLU:HG3	1:K:733:LEU:HD23	1.89	0.54
1:N:430:GLN:NE2	1:P:353:PRO:HB3	2.22	0.54
1:N:567:ILE:HD12	1:N:571:ASN:HD22	1.71	0.54
1:T:567:ILE:HD12	1:T:571:ASN:HD22	1.71	0.54
1:X:567:ILE:HD12	1:X:571:ASN:HD22	1.71	0.54
1:Y:691:GLU:HG3	1:Y:733:LEU:HD23	1.90	0.54
1:h:567:ILE:HD12	1:h:571:ASN:HD22	1.71	0.54
1:o:567:ILE:HD12	1:o:571:ASN:HD22	1.71	0.54
1:q:567:ILE:HD12	1:q:571:ASN:HD22	1.71	0.54
1:t:253:TYR:OH	1:t:374:ILE:O	2.21	0.54
1:u:288:ARG:CZ	1:u:290:HIS:HE1	2.21	0.54
1:2:288:ARG:CZ	1:2:290:HIS:HE1	2.21	0.54
1:4:288:ARG:HH21	1:4:616:GLN:HB3	1.72	0.54
1:7:691:GLU:HG3	1:7:733:LEU:HD23	1.90	0.54
1:B:691:GLU:HG3	1:B:733:LEU:HD23	1.90	0.54
1:G:691:GLU:HG3	1:G:733:LEU:HD23	1.90	0.54
1:M:564:GLU:OE2	1:M:614:TYR:OH	2.15	0.54
1:M:691:GLU:HG3	1:M:733:LEU:HD23	1.89	0.54
1:X:288:ARG:HH21	1:X:616:GLN:HB3	1.72	0.54
1:d:288:ARG:HH21	1:d:616:GLN:HB3	1.72	0.54
1:h:691:GLU:HG3	1:h:733:LEU:HD23	1.89	0.54
1:m:567:ILE:HD12	1:m:571:ASN:HD22	1.71	0.54
1:3:288:ARG:CZ	1:3:290:HIS:HE1	2.21	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:288:ARG:CZ	1:5:290:HIS:HE1	2.21	0.54
1:B:288:ARG:CZ	1:B:290:HIS:HE1	2.21	0.54
1:C:288:ARG:HH21	1:C:616:GLN:HB3	1.72	0.54
1:G:564:GLU:OE2	1:G:614:TYR:OH	2.15	0.54
1:H:288:ARG:CZ	1:H:290:HIS:HE1	2.21	0.54
1:M:567:ILE:HD12	1:M:571:ASN:HD22	1.71	0.54
1:P:288:ARG:HH21	1:P:616:GLN:HB3	1.72	0.54
1:R:567:ILE:HD12	1:R:571:ASN:HD22	1.71	0.54
1:a:288:ARG:CZ	1:a:290:HIS:HE1	2.21	0.54
1:j:288:ARG:HH21	1:j:616:GLN:HB3	1.72	0.54
1:m:691:GLU:HG3	1:m:733:LEU:HD23	1.89	0.54
1:t:691:GLU:HG3	1:t:733:LEU:HD23	1.89	0.54
1:w:288:ARG:HH21	1:w:616:GLN:HB3	1.72	0.54
1:w:290:HIS:HD2	1:w:366:PRO:HA	1.72	0.54
1:1:691:GLU:HG3	1:1:733:LEU:HD23	1.90	0.54
1:D:553:LYS:HG2	1:P:466:TYR:CD1	2.43	0.54
1:I:691:GLU:HG3	1:I:733:LEU:HD23	1.89	0.54
1:N:218:GLY:HA3	1:N:409:ASN:HA	1.91	0.54
1:T:691:GLU:HG3	1:T:733:LEU:HD23	1.90	0.54
1:n:288:ARG:HH21	1:n:616:GLN:HB3	1.72	0.54
1:1:288:ARG:CZ	1:1:290:HIS:HE1	2.21	0.54
1:A:703:THR:OG1	1:F:703:THR:OG1	2.23	0.53
1:E:288:ARG:HH21	1:E:616:GLN:HB3	1.72	0.53
1:G:430:GLN:NE2	1:I:353:PRO:HB3	2.23	0.53
1:M:353:PRO:HB3	1:b:430:GLN:NE2	2.23	0.53
1:O:430:GLN:NE2	1:m:353:PRO:HB3	2.23	0.53
1:R:691:GLU:HG3	1:R:733:LEU:HD23	1.90	0.53
1:U:691:GLU:HG3	1:U:733:LEU:HD23	1.90	0.53
1:Y:288:ARG:CZ	1:Y:290:HIS:HE1	2.21	0.53
1:c:564:GLU:OE2	1:c:614:TYR:OH	2.15	0.53
1:f:430:GLN:NE2	1:h:353:PRO:HB3	2.23	0.53
1:g:218:GLY:HA3	1:g:409:ASN:HA	1.90	0.53
1:i:218:GLY:HA3	1:i:409:ASN:HA	1.91	0.53
1:q:691:GLU:HG3	1:q:733:LEU:HD23	1.90	0.53
1:s:691:GLU:HG3	1:s:733:LEU:HD23	1.90	0.53
1:u:691:GLU:HG3	1:u:733:LEU:HD23	1.89	0.53
1:5:230:HIS:O	1:5:245:THR:OG1	2.19	0.53
1:6:288:ARG:HH21	1:6:616:GLN:HB3	1.72	0.53
1:D:564:GLU:OE2	1:D:614:TYR:OH	2.15	0.53
1:F:288:ARG:CZ	1:F:290:HIS:HE1	2.21	0.53
1:G:288:ARG:HH21	1:G:616:GLN:HB3	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:288:ARG:CZ	1:K:290:HIS:HE1	2.21	0.53
1:O:288:ARG:CZ	1:O:290:HIS:HE1	2.21	0.53
1:R:288:ARG:CZ	1:R:290:HIS:HE1	2.21	0.53
1:T:353:PRO:HB3	1:l:430:GLN:NE2	2.23	0.53
1:W:288:ARG:HH21	1:W:616:GLN:HB3	1.72	0.53
1:X:290:HIS:HD2	1:X:366:PRO:HA	1.72	0.53
1:Z:218:GLY:HA3	1:Z:409:ASN:HA	1.90	0.53
1:q:288:ARG:CZ	1:q:290:HIS:HE1	2.21	0.53
1:t:430:GLN:NE2	1:u:353:PRO:HB3	2.23	0.53
1:u:218:GLY:HA3	1:u:409:ASN:HA	1.91	0.53
1:y:288:ARG:CZ	1:y:290:HIS:HE1	2.21	0.53
1:4:288:ARG:CZ	1:4:290:HIS:HE1	2.21	0.53
1:7:288:ARG:CZ	1:7:290:HIS:HE1	2.21	0.53
1:8:218:GLY:HA3	1:8:409:ASN:HA	1.90	0.53
1:C:218:GLY:HA3	1:C:409:ASN:HA	1.91	0.53
1:C:567:ILE:HD12	1:C:571:ASN:HD22	1.71	0.53
1:D:218:GLY:HA3	1:D:409:ASN:HA	1.91	0.53
1:E:288:ARG:CZ	1:E:290:HIS:HE1	2.21	0.53
1:F:218:GLY:HA3	1:F:409:ASN:HA	1.91	0.53
1:I:218:GLY:HA3	1:I:409:ASN:HA	1.91	0.53
1:S:288:ARG:CZ	1:S:290:HIS:HE1	2.21	0.53
1:T:430:GLN:NE2	1:d:353:PRO:HB3	2.23	0.53
1:g:567:ILE:HD12	1:g:571:ASN:HD22	1.71	0.53
1:i:564:GLU:OE2	1:i:614:TYR:OH	2.15	0.53
1:l:288:ARG:CZ	1:l:290:HIS:HE1	2.21	0.53
1:l:691:GLU:HG3	1:l:733:LEU:HD23	1.89	0.53
1:m:430:GLN:NE2	1:n:353:PRO:HB3	2.23	0.53
1:r:288:ARG:CZ	1:r:290:HIS:HE1	2.21	0.53
1:s:218:GLY:HA3	1:s:409:ASN:HA	1.91	0.53
1:t:288:ARG:HH21	1:t:616:GLN:HB3	1.72	0.53
1:w:288:ARG:CZ	1:w:290:HIS:HE1	2.21	0.53
1:y:218:GLY:HA3	1:y:409:ASN:HA	1.91	0.53
1:B:430:GLN:NE2	1:J:353:PRO:HB3	2.23	0.53
1:K:373:MET:HE3	1:L:663:PHE:HA	1.91	0.53
1:K:430:GLN:NE2	1:a:353:PRO:HB3	2.23	0.53
1:Q:218:GLY:HA3	1:Q:409:ASN:HA	1.91	0.53
1:Q:288:ARG:CZ	1:Q:290:HIS:HE1	2.21	0.53
1:U:218:GLY:HA3	1:U:409:ASN:HA	1.91	0.53
1:k:218:GLY:HA3	1:k:409:ASN:HA	1.91	0.53
1:n:218:GLY:HA3	1:n:409:ASN:HA	1.91	0.53
1:o:290:HIS:HD2	1:o:366:PRO:HA	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:663:PHE:HA	1:1:373:MET:HE3	1.91	0.53
1:z:663:PHE:HA	1:4:373:MET:HE3	1.91	0.53
1:3:373:MET:HE3	1:8:663:PHE:HA	1.91	0.53
1:8:288:ARG:CZ	1:8:290:HIS:HE1	2.21	0.53
1:A:218:GLY:HA3	1:A:409:ASN:HA	1.91	0.53
1:A:691:GLU:HG3	1:A:733:LEU:HD23	1.90	0.53
1:H:230:HIS:O	1:H:245:THR:OG1	2.19	0.53
1:H:353:PRO:HB3	1:Y:430:GLN:NE2	2.24	0.53
1:K:663:PHE:HA	1:7:373:MET:HE3	1.91	0.53
1:O:691:GLU:HG3	1:O:733:LEU:HD23	1.90	0.53
1:P:288:ARG:CZ	1:P:290:HIS:HE1	2.21	0.53
1:Y:373:MET:HE3	1:4:663:PHE:HA	1.91	0.53
1:Z:288:ARG:CZ	1:Z:290:HIS:HE1	2.21	0.53
1:Z:663:PHE:HA	1:a:373:MET:HE3	1.91	0.53
1:c:288:ARG:CZ	1:c:290:HIS:HE1	2.21	0.53
1:d:218:GLY:HA3	1:d:409:ASN:HA	1.91	0.53
1:e:288:ARG:CZ	1:e:290:HIS:HE1	2.21	0.53
1:e:564:GLU:OE2	1:e:614:TYR:OH	2.15	0.53
1:p:218:GLY:HA3	1:p:409:ASN:HA	1.91	0.53
1:p:288:ARG:CZ	1:p:290:HIS:HE1	2.21	0.53
1:p:564:GLU:OE2	1:p:614:TYR:OH	2.15	0.53
1:q:430:GLN:NE2	1:r:353:PRO:HB3	2.23	0.53
1:w:355:VAL:H	1:w:647:GLN:NE2	2.03	0.53
1:x:218:GLY:HA3	1:x:409:ASN:HA	1.91	0.53
1:1:430:GLN:NE2	1:2:353:PRO:HB3	2.23	0.53
1:1:530:LYS:HG2	1:1:531:ASP:N	2.23	0.53
1:3:353:PRO:HB3	1:4:430:GLN:NE2	2.23	0.53
1:5:353:PRO:HB3	1:7:430:GLN:NE2	2.24	0.53
1:C:353:PRO:HB3	1:M:430:GLN:NE2	2.23	0.53
1:D:530:LYS:HG2	1:D:531:ASP:N	2.23	0.53
1:L:218:GLY:HA3	1:L:409:ASN:HA	1.91	0.53
1:R:430:GLN:NE2	1:S:353:PRO:HB3	2.23	0.53
1:S:430:GLN:NE2	1:U:353:PRO:HB3	2.23	0.53
1:V:218:GLY:HA3	1:V:409:ASN:HA	1.91	0.53
1:V:288:ARG:CZ	1:V:290:HIS:HE1	2.21	0.53
1:X:218:GLY:HA3	1:X:409:ASN:HA	1.90	0.53
1:d:485:CYS:HG	1:d:578:TYR:HB2	1.74	0.53
1:h:288:ARG:CZ	1:h:290:HIS:HE1	2.21	0.53
1:j:288:ARG:CZ	1:j:290:HIS:HE1	2.21	0.53
1:k:530:LYS:HG2	1:k:531:ASP:N	2.23	0.53
1:n:485:CYS:HG	1:n:578:TYR:HB2	1.74	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:418:GLU:OE2	1:o:642:LYS:N	2.42	0.53
1:u:564:GLU:OE2	1:u:614:TYR:OH	2.15	0.53
1:v:218:GLY:HA3	1:v:409:ASN:HA	1.91	0.53
1:v:691:GLU:HG3	1:v:733:LEU:HD23	1.90	0.53
1:x:288:ARG:CZ	1:x:290:HIS:HE1	2.21	0.53
1:x:415:TYR:OH	1:x:643:HIS:O	2.27	0.53
1:z:218:GLY:HA3	1:z:409:ASN:HA	1.91	0.53
1:6:288:ARG:CZ	1:6:290:HIS:HE1	2.21	0.53
1:B:418:GLU:OE2	1:B:642:LYS:N	2.42	0.53
1:D:691:GLU:HG3	1:D:733:LEU:HD23	1.90	0.53
1:E:355:VAL:H	1:E:647:GLN:NE2	2.03	0.53
1:G:288:ARG:CZ	1:G:290:HIS:HE1	2.21	0.53
1:G:373:MET:HE3	1:W:663:PHE:HA	1.91	0.53
1:H:373:MET:HE3	1:I:663:PHE:HA	1.91	0.53
1:J:430:GLN:NE2	1:L:353:PRO:HB3	2.23	0.53
1:K:415:TYR:OH	1:K:643:HIS:O	2.27	0.53
1:K:530:LYS:HG2	1:K:531:ASP:N	2.23	0.53
1:M:288:ARG:CZ	1:M:290:HIS:HE1	2.21	0.53
1:N:564:GLU:OE2	1:N:614:TYR:OH	2.15	0.53
1:O:353:PRO:HB3	1:n:430:GLN:NE2	2.23	0.53
1:O:418:GLU:OE2	1:O:642:LYS:N	2.42	0.53
1:R:218:GLY:HA3	1:R:409:ASN:HA	1.90	0.53
1:S:418:GLU:OE2	1:S:642:LYS:N	2.42	0.53
1:T:373:MET:HE3	1:U:663:PHE:HA	1.91	0.53
1:U:288:ARG:CZ	1:U:290:HIS:HE1	2.21	0.53
1:V:226:SER:HG	1:V:319:ASN:H	1.56	0.53
1:V:430:GLN:NE2	1:e:353:PRO:HB3	2.24	0.53
1:W:430:GLN:NE2	1:Y:353:PRO:HB3	2.23	0.53
1:X:418:GLU:OE2	1:X:642:LYS:N	2.42	0.53
1:Y:218:GLY:HA3	1:Y:409:ASN:HA	1.91	0.53
1:b:226:SER:HG	1:b:319:ASN:H	1.55	0.53
1:g:353:PRO:HB3	1:h:430:GLN:NE2	2.23	0.53
1:j:418:GLU:OE2	1:j:642:LYS:N	2.42	0.53
1:j:430:GLN:NE2	1:k:353:PRO:HB3	2.24	0.53
1:l:418:GLU:OE2	1:l:642:LYS:N	2.42	0.53
1:n:288:ARG:CZ	1:n:290:HIS:HE1	2.21	0.53
1:r:418:GLU:OE2	1:r:642:LYS:N	2.42	0.53
1:r:430:GLN:NE2	1:s:353:PRO:HB3	2.23	0.53
1:s:288:ARG:CZ	1:s:290:HIS:HE1	2.21	0.53
1:v:230:HIS:O	1:v:245:THR:OG1	2.19	0.53
1:z:353:PRO:HB3	1:2:430:GLN:NE2	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:418:GLU:OE2	1:1:642:LYS:N	2.42	0.53
1:4:415:TYR:OH	1:4:643:HIS:O	2.27	0.53
1:6:430:GLN:NE2	1:7:353:PRO:HB3	2.23	0.53
1:7:218:GLY:HA3	1:7:409:ASN:HA	1.91	0.53
1:F:415:TYR:OH	1:F:643:HIS:O	2.27	0.53
1:F:530:LYS:HG2	1:F:531:ASP:N	2.23	0.53
1:K:224:ASN:OD1	1:L:409:ASN:ND2	2.29	0.53
1:P:418:GLU:OE2	1:P:642:LYS:N	2.42	0.53
1:Q:415:TYR:OH	1:Q:643:HIS:O	2.27	0.53
1:R:353:PRO:HB3	1:U:430:GLN:NE2	2.23	0.53
1:V:691:GLU:HG3	1:V:733:LEU:HD23	1.90	0.53
1:W:218:GLY:HA3	1:W:409:ASN:HA	1.91	0.53
1:W:288:ARG:CZ	1:W:290:HIS:HE1	2.21	0.53
1:Y:415:TYR:OH	1:Y:643:HIS:O	2.27	0.53
1:Z:353:PRO:HB3	1:3:430:GLN:NE2	2.23	0.53
1:a:218:GLY:HA3	1:a:409:ASN:HA	1.91	0.53
1:a:430:GLN:NE2	1:8:353:PRO:HB3	2.23	0.53
1:a:691:GLU:HG3	1:a:733:LEU:HD23	1.90	0.53
1:c:218:GLY:HA3	1:c:409:ASN:HA	1.91	0.53
1:c:353:PRO:HB3	1:p:430:GLN:NE2	2.24	0.53
1:d:288:ARG:CZ	1:d:290:HIS:HE1	2.21	0.53
1:d:430:GLN:NE2	1:l:353:PRO:HB3	2.23	0.53
1:e:218:GLY:HA3	1:e:409:ASN:HA	1.91	0.53
1:i:353:PRO:HB3	1:k:430:GLN:NE2	2.23	0.53
1:l:218:GLY:HA3	1:l:409:ASN:HA	1.91	0.53
1:m:415:TYR:OH	1:m:643:HIS:O	2.27	0.53
1:o:218:GLY:HA3	1:o:409:ASN:HA	1.91	0.53
1:p:691:GLU:HG3	1:p:733:LEU:HD23	1.90	0.53
1:q:218:GLY:HA3	1:q:409:ASN:HA	1.90	0.53
1:q:353:PRO:HB3	1:s:430:GLN:NE2	2.23	0.53
1:r:691:GLU:HG3	1:r:733:LEU:HD23	1.90	0.53
1:t:373:MET:HE3	1:6:663:PHE:HA	1.91	0.53
1:u:663:PHE:HA	1:5:373:MET:HE3	1.91	0.53
1:y:415:TYR:OH	1:y:643:HIS:O	2.27	0.53
1:z:409:ASN:ND2	1:4:224:ASN:OD1	2.29	0.53
1:7:415:TYR:OH	1:7:643:HIS:O	2.27	0.53
1:C:288:ARG:CZ	1:C:290:HIS:HE1	2.21	0.53
1:F:663:PHE:HA	1:R:373:MET:HE3	1.91	0.53
1:J:415:TYR:OH	1:J:643:HIS:O	2.27	0.53
1:O:218:GLY:HA3	1:O:409:ASN:HA	1.91	0.53
1:P:708:LYS:HD2	1:Q:387:GLN:OE1	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:415:TYR:OH	1:T:643:HIS:O	2.27	0.53
1:V:564:GLU:OE2	1:V:614:TYR:OH	2.15	0.53
1:X:288:ARG:CZ	1:X:290:HIS:HE1	2.21	0.53
1:X:353:PRO:HB3	1:e:430:GLN:NE2	2.23	0.53
1:Z:430:GLN:NE2	1:4:353:PRO:HB3	2.23	0.53
1:e:373:MET:HE3	1:h:663:PHE:HA	1.91	0.53
1:f:415:TYR:OH	1:f:643:HIS:O	2.27	0.53
1:k:691:GLU:HG3	1:k:733:LEU:HD23	1.90	0.53
1:m:373:MET:HE3	1:s:663:PHE:HA	1.91	0.53
1:n:415:TYR:OH	1:n:643:HIS:O	2.27	0.53
1:t:288:ARG:CZ	1:t:290:HIS:HE1	2.21	0.53
1:u:430:GLN:NE2	1:v:353:PRO:HB3	2.23	0.53
1:y:530:LYS:HG2	1:y:531:ASP:N	2.23	0.53
1:2:415:TYR:OH	1:2:643:HIS:O	2.27	0.53
1:3:218:GLY:HA3	1:3:409:ASN:HA	1.91	0.53
1:3:691:GLU:HG3	1:3:733:LEU:HD23	1.90	0.53
1:4:530:LYS:HG2	1:4:531:ASP:N	2.23	0.53
1:5:418:GLU:OE2	1:5:642:LYS:N	2.42	0.53
1:6:218:GLY:HA3	1:6:409:ASN:HA	1.91	0.53
1:8:418:GLU:OE2	1:8:642:LYS:N	2.42	0.53
1:A:663:PHE:HA	1:B:373:MET:HE3	1.91	0.53
1:G:418:GLU:OE2	1:G:642:LYS:N	2.42	0.53
1:H:418:GLU:OE2	1:H:642:LYS:N	2.42	0.53
1:I:418:GLU:OE2	1:I:642:LYS:N	2.42	0.53
1:K:353:PRO:HB3	1:8:430:GLN:NE2	2.23	0.53
1:M:415:TYR:OH	1:M:643:HIS:O	2.27	0.53
1:M:663:PHE:HA	1:c:373:MET:HE3	1.91	0.53
1:O:415:TYR:OH	1:O:643:HIS:O	2.27	0.53
1:R:415:TYR:OH	1:R:643:HIS:O	2.27	0.53
1:R:663:PHE:HA	1:V:373:MET:HE3	1.91	0.53
1:S:691:GLU:HG3	1:S:733:LEU:HD23	1.90	0.53
1:V:353:PRO:HB3	1:X:430:GLN:NE2	2.23	0.53
1:X:373:MET:HE3	1:Y:663:PHE:HA	1.91	0.53
1:Z:418:GLU:OE2	1:Z:642:LYS:N	2.42	0.53
1:a:485:CYS:HG	1:a:578:TYR:HB2	1.73	0.53
1:b:415:TYR:OH	1:b:643:HIS:O	2.27	0.53
1:b:691:GLU:HG3	1:b:733:LEU:HD23	1.90	0.53
1:d:415:TYR:OH	1:d:643:HIS:O	2.27	0.53
1:f:288:ARG:CZ	1:f:290:HIS:HE1	2.21	0.53
1:f:564:GLU:OE2	1:f:614:TYR:OH	2.15	0.53
1:g:288:ARG:CZ	1:g:290:HIS:HE1	2.21	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:415:TYR:OH	1:h:643:HIS:O	2.27	0.53
1:l:663:PHE:HA	1:n:373:MET:HE3	1.91	0.53
1:o:373:MET:HE3	1:7:663:PHE:HA	1.91	0.53
1:q:373:MET:HE3	1:y:663:PHE:HA	1.91	0.53
1:q:415:TYR:OH	1:q:643:HIS:O	2.27	0.53
1:A:230:HIS:O	1:A:245:THR:OG1	2.19	0.52
1:A:353:PRO:HB3	1:I:430:GLN:NE2	2.23	0.52
1:C:415:TYR:OH	1:C:643:HIS:O	2.27	0.52
1:D:418:GLU:OE2	1:D:642:LYS:N	2.42	0.52
1:G:218:GLY:HA3	1:G:409:ASN:HA	1.90	0.52
1:I:373:MET:HE3	1:J:663:PHE:HA	1.91	0.52
1:L:415:TYR:OH	1:L:643:HIS:O	2.27	0.52
1:N:415:TYR:OH	1:N:643:HIS:O	2.27	0.52
1:O:663:PHE:HA	1:d:373:MET:HE3	1.91	0.52
1:S:218:GLY:HA3	1:S:409:ASN:HA	1.91	0.52
1:T:663:PHE:HA	1:i:373:MET:HE3	1.91	0.52
1:W:415:TYR:OH	1:W:643:HIS:O	2.27	0.52
1:Z:226:SER:HG	1:Z:319:ASN:H	1.54	0.52
1:b:218:GLY:HA3	1:b:409:ASN:HA	1.91	0.52
1:b:288:ARG:CZ	1:b:290:HIS:HE1	2.21	0.52
1:c:430:GLN:NE2	1:o:353:PRO:HB3	2.23	0.52
1:d:418:GLU:OE2	1:d:642:LYS:N	2.42	0.52
1:f:691:GLU:HG3	1:f:733:LEU:HD23	1.90	0.52
1:g:415:TYR:OH	1:g:643:HIS:O	2.27	0.52
1:j:663:PHE:HA	1:l:373:MET:HE3	1.91	0.52
1:l:415:TYR:OH	1:l:643:HIS:O	2.27	0.52
1:o:288:ARG:CZ	1:o:290:HIS:HE1	2.21	0.52
1:o:430:GLN:NE2	1:p:353:PRO:HB3	2.23	0.52
1:p:373:MET:HE3	1:q:663:PHE:HA	1.91	0.52
1:u:373:MET:HE3	1:2:663:PHE:HA	1.91	0.52
1:u:418:GLU:OE2	1:u:642:LYS:N	2.42	0.52
1:w:415:TYR:OH	1:w:643:HIS:O	2.27	0.52
1:6:415:TYR:OH	1:6:643:HIS:O	2.27	0.52
1:A:288:ARG:CZ	1:A:290:HIS:HE1	2.21	0.52
1:D:288:ARG:CZ	1:D:290:HIS:HE1	2.21	0.52
1:E:415:TYR:OH	1:E:643:HIS:O	2.27	0.52
1:K:240:VAL:HG13	1:K:686:TRP:HB2	1.92	0.52
1:S:240:VAL:HG13	1:S:686:TRP:HB2	1.92	0.52
1:X:230:HIS:O	1:X:245:THR:OG1	2.19	0.52
1:a:240:VAL:HG13	1:a:686:TRP:HB2	1.92	0.52
1:f:530:LYS:HG2	1:f:531:ASP:N	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:415:TYR:OH	1:i:643:HIS:O	2.27	0.52
1:k:288:ARG:CZ	1:k:290:HIS:HE1	2.21	0.52
1:k:418:GLU:OE2	1:k:642:LYS:N	2.42	0.52
1:k:663:PHE:HA	1:w:373:MET:HE3	1.91	0.52
1:n:418:GLU:OE2	1:n:642:LYS:N	2.42	0.52
1:o:230:HIS:O	1:o:245:THR:OG1	2.19	0.52
1:t:218:GLY:HA3	1:t:409:ASN:HA	1.90	0.52
1:v:288:ARG:CZ	1:v:290:HIS:HE1	2.21	0.52
1:z:226:SER:HG	1:z:319:ASN:H	1.54	0.52
1:z:288:ARG:CZ	1:z:290:HIS:HE1	2.21	0.52
1:z:415:TYR:OH	1:z:643:HIS:O	2.27	0.52
1:3:240:VAL:HG13	1:3:686:TRP:HB2	1.92	0.52
1:A:415:TYR:OH	1:A:643:HIS:O	2.27	0.52
1:A:430:GLN:NE2	1:G:353:PRO:HB3	2.23	0.52
1:F:353:PRO:HB3	1:Q:430:GLN:NE2	2.23	0.52
1:J:240:VAL:HG13	1:J:686:TRP:HB2	1.92	0.52
1:L:288:ARG:CZ	1:L:290:HIS:HE1	2.21	0.52
1:N:373:MET:HE3	1:m:663:PHE:HA	1.91	0.52
1:V:415:TYR:OH	1:V:643:HIS:O	2.27	0.52
1:c:415:TYR:OH	1:c:643:HIS:O	2.27	0.52
1:e:415:TYR:OH	1:e:643:HIS:O	2.27	0.52
1:f:218:GLY:HA3	1:f:409:ASN:HA	1.91	0.52
1:k:415:TYR:OH	1:k:643:HIS:O	2.27	0.52
1:p:415:TYR:OH	1:p:643:HIS:O	2.27	0.52
1:q:418:GLU:OE2	1:q:642:LYS:N	2.42	0.52
1:r:218:GLY:HA3	1:r:409:ASN:HA	1.91	0.52
1:r:240:VAL:HG13	1:r:686:TRP:HB2	1.92	0.52
1:v:415:TYR:OH	1:v:643:HIS:O	2.27	0.52
1:2:240:VAL:HG13	1:2:686:TRP:HB2	1.92	0.52
1:4:240:VAL:HG13	1:4:686:TRP:HB2	1.92	0.52
1:D:430:GLN:NE2	1:N:353:PRO:HB3	2.24	0.52
1:J:373:MET:HE3	1:a:663:PHE:HA	1.91	0.52
1:M:218:GLY:HA3	1:M:409:ASN:HA	1.91	0.52
1:R:418:GLU:OE2	1:R:642:LYS:N	2.42	0.52
1:T:218:GLY:HA3	1:T:409:ASN:HA	1.91	0.52
1:T:288:ARG:CZ	1:T:290:HIS:HE1	2.21	0.52
1:U:415:TYR:OH	1:U:643:HIS:O	2.27	0.52
1:W:240:VAL:HG13	1:W:686:TRP:HB2	1.92	0.52
1:b:530:LYS:HG2	1:b:531:ASP:N	2.23	0.52
1:h:218:GLY:HA3	1:h:409:ASN:HA	1.91	0.52
1:s:415:TYR:OH	1:s:643:HIS:O	2.27	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:353:PRO:HB3	1:v:430:GLN:NE2	2.23	0.52
1:w:218:GLY:HA3	1:w:409:ASN:HA	1.91	0.52
1:w:240:VAL:HG13	1:w:686:TRP:HB2	1.92	0.52
1:x:430:GLN:NE2	1:y:353:PRO:HB3	2.23	0.52
1:6:240:VAL:HG13	1:6:686:TRP:HB2	1.92	0.52
1:6:485:CYS:HG	1:6:578:TYR:HB2	1.74	0.52
1:D:415:TYR:OH	1:D:643:HIS:O	2.27	0.52
1:D:663:PHE:HA	1:E:373:MET:HE3	1.91	0.52
1:E:218:GLY:HA3	1:E:409:ASN:HA	1.91	0.52
1:E:240:VAL:HG13	1:E:686:TRP:HB2	1.92	0.52
1:H:240:VAL:HG13	1:H:686:TRP:HB2	1.92	0.52
1:H:415:TYR:OH	1:H:643:HIS:O	2.27	0.52
1:P:218:GLY:HA3	1:P:409:ASN:HA	1.91	0.52
1:b:564:GLU:OE2	1:b:614:TYR:OH	2.15	0.52
1:e:418:GLU:OE2	1:e:642:LYS:N	2.42	0.52
1:k:240:VAL:HG13	1:k:686:TRP:HB2	1.92	0.52
1:l:230:HIS:O	1:l:245:THR:OG1	2.19	0.52
1:m:218:GLY:HA3	1:m:409:ASN:HA	1.90	0.52
1:m:288:ARG:CZ	1:m:290:HIS:HE1	2.21	0.52
1:r:663:PHE:HA	1:x:373:MET:HE3	1.91	0.52
1:v:564:GLU:OE2	1:v:614:TYR:OH	2.15	0.52
1:w:353:PRO:HB3	1:y:430:GLN:NE2	2.23	0.52
1:w:418:GLU:OE2	1:w:642:LYS:N	2.42	0.52
1:5:240:VAL:HG13	1:5:686:TRP:HB2	1.92	0.52
1:6:418:GLU:OE2	1:6:642:LYS:N	2.42	0.52
1:8:240:VAL:HG13	1:8:686:TRP:HB2	1.92	0.52
1:B:353:PRO:HB3	1:L:430:GLN:NE2	2.23	0.52
1:D:278:SER:HB2	1:P:439:LEU:HD21	1.92	0.52
1:E:353:PRO:HB3	1:F:430:GLN:NE2	2.23	0.52
1:E:430:GLN:NE2	1:Q:353:PRO:HB3	2.23	0.52
1:L:226:SER:HG	1:L:319:ASN:H	1.54	0.52
1:O:564:GLU:OE2	1:O:614:TYR:OH	2.15	0.52
1:P:240:VAL:HG13	1:P:686:TRP:HB2	1.92	0.52
1:T:564:GLU:OE2	1:T:614:TYR:OH	2.15	0.52
1:V:240:VAL:HG13	1:V:686:TRP:HB2	1.92	0.52
1:W:485:CYS:HG	1:W:578:TYR:HB2	1.74	0.52
1:X:564:GLU:OE2	1:X:614:TYR:OH	2.15	0.52
1:Z:240:VAL:HG13	1:Z:686:TRP:HB2	1.92	0.52
1:Z:415:TYR:OH	1:Z:643:HIS:O	2.27	0.52
1:c:418:GLU:OE2	1:c:642:LYS:N	2.42	0.52
1:j:218:GLY:HA3	1:j:409:ASN:HA	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:564:GLU:OE2	1:l:614:TYR:OH	2.15	0.52
1:y:240:VAL:HG13	1:y:686:TRP:HB2	1.92	0.52
1:2:373:MET:HE3	1:3:663:PHE:HA	1.91	0.52
1:5:415:TYR:OH	1:5:643:HIS:O	2.27	0.52
1:5:663:PHE:HA	1:8:373:MET:HE3	1.91	0.52
1:C:240:VAL:HG13	1:C:686:TRP:HB2	1.92	0.52
1:D:240:VAL:HG13	1:D:686:TRP:HB2	1.92	0.52
1:E:418:GLU:OE2	1:E:642:LYS:N	2.42	0.52
1:F:240:VAL:HG13	1:F:686:TRP:HB2	1.92	0.52
1:G:415:TYR:OH	1:G:643:HIS:O	2.27	0.52
1:I:530:LYS:HG2	1:I:531:ASP:N	2.23	0.52
1:O:530:LYS:HG2	1:O:531:ASP:N	2.23	0.52
1:U:530:LYS:HG2	1:U:531:ASP:N	2.23	0.52
1:W:418:GLU:OE2	1:W:642:LYS:N	2.42	0.52
1:b:240:VAL:HG13	1:b:686:TRP:HB2	1.92	0.52
1:g:240:VAL:HG13	1:g:686:TRP:HB2	1.92	0.52
1:i:288:ARG:CZ	1:i:290:HIS:HE1	2.21	0.52
1:i:450:THR:OG1	1:j:502:ASN:HA	2.09	0.52
1:m:564:GLU:OE2	1:m:614:TYR:OH	2.15	0.52
1:p:240:VAL:HG13	1:p:686:TRP:HB2	1.92	0.52
1:s:530:LYS:HG2	1:s:531:ASP:N	2.23	0.52
1:u:530:LYS:HG2	1:u:531:ASP:N	2.23	0.52
1:w:430:GLN:NE2	1:x:353:PRO:HB3	2.23	0.52
1:z:430:GLN:NE2	1:1:353:PRO:HB3	2.23	0.52
1:8:415:TYR:OH	1:8:643:HIS:O	2.27	0.52
1:F:373:MET:HE3	1:G:663:PHE:HA	1.90	0.52
1:H:663:PHE:HA	1:Z:373:MET:HE3	1.91	0.52
1:I:415:TYR:OH	1:I:643:HIS:O	2.27	0.52
1:J:418:GLU:OE2	1:J:642:LYS:N	2.42	0.52
1:N:288:ARG:CZ	1:N:290:HIS:HE1	2.21	0.52
1:P:242:THR:HG21	1:P:293:PHE:CE1	2.45	0.52
1:Q:373:MET:HE3	1:S:663:PHE:HA	1.91	0.52
1:V:591:ALA:HA	1:e:499:ASN:ND2	2.25	0.52
1:V:663:PHE:HA	1:W:373:MET:HE3	1.91	0.52
1:X:415:TYR:OH	1:X:643:HIS:O	2.27	0.52
1:b:242:THR:HG21	1:b:293:PHE:CE1	2.45	0.52
1:c:499:ASN:ND2	1:p:591:ALA:HA	2.25	0.52
1:e:230:HIS:O	1:e:245:THR:OG1	2.19	0.52
1:f:240:VAL:HG13	1:f:686:TRP:HB2	1.92	0.52
1:f:242:THR:HG21	1:f:293:PHE:CE1	2.45	0.52
1:j:240:VAL:HG13	1:j:686:TRP:HB2	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:415:TYR:OH	1:o:643:HIS:O	2.27	0.52
1:p:663:PHE:HA	1:6:373:MET:HE3	1.91	0.52
1:q:499:ASN:ND2	1:s:591:ALA:HA	2.25	0.52
1:r:485:CYS:HG	1:r:578:TYR:HB2	1.74	0.52
1:t:663:PHE:HA	1:y:373:MET:HE3	1.90	0.52
1:u:591:ALA:HA	1:v:499:ASN:ND2	2.25	0.52
1:2:418:GLU:OE2	1:2:642:LYS:N	2.42	0.52
1:B:218:GLY:HA3	1:B:409:ASN:HA	1.90	0.52
1:B:415:TYR:OH	1:B:643:HIS:O	2.27	0.52
1:F:472:THR:HB	1:F:475:GLU:OE1	2.10	0.52
1:J:218:GLY:HA3	1:J:409:ASN:HA	1.91	0.52
1:L:472:THR:HB	1:L:475:GLU:OE1	2.10	0.52
1:O:230:HIS:O	1:O:245:THR:OG1	2.19	0.52
1:R:242:THR:HG21	1:R:293:PHE:CE1	2.45	0.52
1:R:499:ASN:ND2	1:U:591:ALA:HA	2.25	0.52
1:S:415:TYR:OH	1:S:643:HIS:O	2.27	0.52
1:Y:242:THR:HG21	1:Y:293:PHE:CE1	2.45	0.52
1:a:472:THR:HB	1:a:475:GLU:OE1	2.10	0.52
1:f:663:PHE:HA	1:z:373:MET:HE3	1.91	0.52
1:j:242:THR:HG21	1:j:293:PHE:CE1	2.45	0.52
1:l:530:LYS:HG2	1:l:531:ASP:N	2.23	0.52
1:o:564:GLU:OE2	1:o:614:TYR:OH	2.15	0.52
1:r:415:TYR:OH	1:r:643:HIS:O	2.27	0.52
1:t:415:TYR:OH	1:t:643:HIS:O	2.27	0.52
1:u:240:VAL:HG13	1:u:686:TRP:HB2	1.92	0.52
1:u:415:TYR:OH	1:u:643:HIS:O	2.27	0.52
1:v:373:MET:HE3	1:w:663:PHE:HA	1.90	0.52
1:y:472:THR:HB	1:y:475:GLU:OE1	2.10	0.52
1:z:472:THR:HB	1:z:475:GLU:OE1	2.10	0.52
1:2:218:GLY:HA3	1:2:409:ASN:HA	1.91	0.52
1:3:472:THR:HB	1:3:475:GLU:OE1	2.10	0.52
1:5:430:GLN:NE2	1:6:353:PRO:HB3	2.24	0.52
1:A:373:MET:HE3	1:E:663:PHE:HA	1.90	0.52
1:C:472:THR:HB	1:C:475:GLU:OE1	2.10	0.52
1:H:271:ASP:O	1:Y:434:ARG:NH2	2.43	0.52
1:J:472:THR:HB	1:J:475:GLU:OE1	2.10	0.52
1:K:242:THR:HG21	1:K:293:PHE:CE1	2.45	0.52
1:N:434:ARG:NH2	1:P:271:ASP:O	2.42	0.52
1:R:472:THR:HB	1:R:475:GLU:OE1	2.10	0.52
1:c:230:HIS:O	1:c:245:THR:OG1	2.19	0.52
1:d:472:THR:HB	1:d:475:GLU:OE1	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:242:THR:HG21	1:q:293:PHE:CE1	2.45	0.52
1:q:472:THR:HB	1:q:475:GLU:OE1	2.10	0.52
1:w:591:ALA:HA	1:x:499:ASN:ND2	2.25	0.52
1:x:242:THR:HG21	1:x:293:PHE:CE1	2.45	0.52
1:4:242:THR:HG21	1:4:293:PHE:CE1	2.45	0.52
1:5:271:ASP:O	1:7:434:ARG:NH2	2.43	0.52
1:6:530:LYS:HG2	1:6:531:ASP:N	2.23	0.52
1:7:242:THR:HG21	1:7:293:PHE:CE1	2.45	0.52
1:A:242:THR:HG21	1:A:293:PHE:CE1	2.45	0.51
1:A:499:ASN:ND2	1:I:591:ALA:HA	2.26	0.51
1:A:564:GLU:OE2	1:A:614:TYR:OH	2.15	0.51
1:B:663:PHE:HA	1:C:373:MET:HE3	1.91	0.51
1:C:418:GLU:OE2	1:C:642:LYS:N	2.42	0.51
1:E:591:ALA:HA	1:Q:499:ASN:ND2	2.25	0.51
1:F:485:CYS:HG	1:F:578:TYR:HB2	1.75	0.51
1:G:591:ALA:HA	1:I:499:ASN:ND2	2.25	0.51
1:H:430:GLN:NE2	1:W:353:PRO:HB3	2.24	0.51
1:H:472:THR:HB	1:H:475:GLU:OE1	2.10	0.51
1:I:240:VAL:HG13	1:I:686:TRP:HB2	1.92	0.51
1:K:472:THR:HB	1:K:475:GLU:OE1	2.10	0.51
1:L:373:MET:HE3	1:b:663:PHE:HA	1.91	0.51
1:N:242:THR:HG21	1:N:293:PHE:CE1	2.45	0.51
1:N:418:GLU:OE2	1:N:642:LYS:N	2.42	0.51
1:Q:242:THR:HG21	1:Q:293:PHE:CE1	2.45	0.51
1:S:591:ALA:HA	1:U:499:ASN:ND2	2.25	0.51
1:W:472:THR:HB	1:W:475:GLU:OE1	2.10	0.51
1:W:530:LYS:HG2	1:W:531:ASP:N	2.23	0.51
1:Z:499:ASN:ND2	1:3:591:ALA:HA	2.26	0.51
1:a:415:TYR:OH	1:a:643:HIS:O	2.27	0.51
1:a:591:ALA:HA	1:8:499:ASN:ND2	2.26	0.51
1:g:472:THR:HB	1:g:475:GLU:OE1	2.10	0.51
1:i:242:THR:HG21	1:i:293:PHE:CE1	2.45	0.51
1:n:472:THR:HB	1:n:475:GLU:OE1	2.10	0.51
1:p:242:THR:HG21	1:p:293:PHE:CE1	2.45	0.51
1:q:226:SER:HG	1:q:319:ASN:H	1.55	0.51
1:r:591:ALA:HA	1:s:499:ASN:ND2	2.25	0.51
1:v:240:VAL:HG13	1:v:686:TRP:HB2	1.92	0.51
1:1:218:GLY:HA3	1:1:409:ASN:HA	1.90	0.51
1:1:415:TYR:OH	1:1:643:HIS:O	2.27	0.51
1:2:472:THR:HB	1:2:475:GLU:OE1	2.10	0.51
1:3:415:TYR:OH	1:3:643:HIS:O	2.27	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:472:THR:HB	1:4:475:GLU:OE1	2.10	0.51
1:5:485:CYS:HG	1:5:578:TYR:HB2	1.73	0.51
1:7:472:THR:HB	1:7:475:GLU:OE1	2.10	0.51
1:8:242:THR:HG21	1:8:293:PHE:CE1	2.45	0.51
1:E:504:ALA:O	1:E:508:ALA:HB2	2.11	0.51
1:K:591:ALA:HA	1:a:499:ASN:ND2	2.25	0.51
1:O:373:MET:HE3	1:P:663:PHE:HA	1.92	0.51
1:O:504:ALA:O	1:O:508:ALA:HB2	2.11	0.51
1:Q:504:ALA:O	1:Q:508:ALA:HB2	2.11	0.51
1:R:271:ASP:O	1:U:434:ARG:NH2	2.44	0.51
1:S:373:MET:HE3	1:d:663:PHE:HA	1.91	0.51
1:T:499:ASN:ND2	1:l:591:ALA:HA	2.25	0.51
1:T:530:LYS:HG2	1:T:531:ASP:N	2.23	0.51
1:V:242:THR:HG21	1:V:293:PHE:CE1	2.45	0.51
1:Y:472:THR:HB	1:Y:475:GLU:OE1	2.10	0.51
1:Z:242:THR:HG21	1:Z:293:PHE:CE1	2.45	0.51
1:a:242:THR:HG21	1:a:293:PHE:CE1	2.45	0.51
1:b:373:MET:HE3	1:o:663:PHE:HA	1.91	0.51
1:g:373:MET:HE3	1:1:663:PHE:HA	1.91	0.51
1:g:418:GLU:OE2	1:g:642:LYS:N	2.42	0.51
1:m:530:LYS:HG2	1:m:531:ASP:N	2.23	0.51
1:o:242:THR:HG21	1:o:293:PHE:CE1	2.45	0.51
1:p:472:THR:HB	1:p:475:GLU:OE1	2.10	0.51
1:q:271:ASP:O	1:s:434:ARG:NH2	2.44	0.51
1:t:591:ALA:HA	1:u:499:ASN:ND2	2.25	0.51
1:v:242:THR:HG21	1:v:293:PHE:CE1	2.45	0.51
1:2:242:THR:HG21	1:2:293:PHE:CE1	2.45	0.51
1:3:242:THR:HG21	1:3:293:PHE:CE1	2.45	0.51
1:5:472:THR:HB	1:5:475:GLU:OE1	2.10	0.51
1:6:472:THR:HB	1:6:475:GLU:OE1	2.10	0.51
1:A:240:VAL:HG13	1:A:686:TRP:HB2	1.92	0.51
1:A:418:GLU:OE2	1:A:642:LYS:N	2.42	0.51
1:B:591:ALA:HA	1:J:499:ASN:ND2	2.25	0.51
1:C:504:ALA:O	1:C:508:ALA:HB2	2.11	0.51
1:J:242:THR:HG21	1:J:293:PHE:CE1	2.45	0.51
1:M:418:GLU:OE2	1:M:642:LYS:N	2.42	0.51
1:M:472:THR:HB	1:M:475:GLU:OE1	2.10	0.51
1:O:591:ALA:HA	1:m:499:ASN:ND2	2.25	0.51
1:R:226:SER:HG	1:R:319:ASN:H	1.55	0.51
1:R:530:LYS:HG2	1:R:531:ASP:N	2.23	0.51
1:V:271:ASP:O	1:X:434:ARG:NH2	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:472:THR:HB	1:V:475:GLU:OE1	2.10	0.51
1:X:242:THR:HG21	1:X:293:PHE:CE1	2.45	0.51
1:a:530:LYS:HG2	1:a:531:ASP:N	2.23	0.51
1:g:242:THR:HG21	1:g:293:PHE:CE1	2.45	0.51
1:g:504:ALA:O	1:g:508:ALA:HB2	2.11	0.51
1:i:418:GLU:OE2	1:i:642:LYS:N	2.42	0.51
1:i:430:GLN:NE2	1:j:353:PRO:HB3	2.24	0.51
1:j:373:MET:HE3	1:x:663:PHE:HA	1.91	0.51
1:j:415:TYR:OH	1:j:643:HIS:O	2.27	0.51
1:j:472:THR:HB	1:j:475:GLU:OE1	2.10	0.51
1:l:504:ALA:O	1:l:508:ALA:HB2	2.11	0.51
1:t:472:THR:HB	1:t:475:GLU:OE1	2.10	0.51
1:v:418:GLU:OE2	1:v:642:LYS:N	2.42	0.51
1:w:504:ALA:O	1:w:508:ALA:HB2	2.11	0.51
1:x:240:VAL:HG13	1:x:686:TRP:HB2	1.92	0.51
1:y:485:CYS:HG	1:y:578:TYR:HB2	1.75	0.51
1:1:591:ALA:HA	1:2:499:ASN:ND2	2.25	0.51
1:2:530:LYS:HG2	1:2:531:ASP:N	2.23	0.51
1:3:499:ASN:ND2	1:4:591:ALA:HA	2.25	0.51
1:3:530:LYS:HG2	1:3:531:ASP:N	2.23	0.51
1:4:504:ALA:O	1:4:508:ALA:HB2	2.11	0.51
1:A:530:LYS:HG2	1:A:531:ASP:N	2.23	0.51
1:C:242:THR:HG21	1:C:293:PHE:CE1	2.45	0.51
1:G:472:THR:HB	1:G:475:GLU:OE1	2.10	0.51
1:H:226:SER:HG	1:H:319:ASN:H	1.56	0.51
1:H:242:THR:HG21	1:H:293:PHE:CE1	2.45	0.51
1:J:530:LYS:HG2	1:J:531:ASP:N	2.23	0.51
1:K:504:ALA:O	1:K:508:ALA:HB2	2.11	0.51
1:M:530:LYS:HG2	1:M:531:ASP:N	2.23	0.51
1:N:466:TYR:CD1	1:P:553:LYS:HG2	2.45	0.51
1:U:240:VAL:HG13	1:U:686:TRP:HB2	1.92	0.51
1:U:472:THR:HB	1:U:475:GLU:OE1	2.10	0.51
1:X:240:VAL:HG13	1:X:686:TRP:HB2	1.92	0.51
1:X:499:ASN:ND2	1:e:591:ALA:HA	2.26	0.51
1:X:663:PHE:HA	1:f:373:MET:HE3	1.91	0.51
1:c:591:ALA:HA	1:o:499:ASN:ND2	2.26	0.51
1:h:472:THR:HB	1:h:475:GLU:OE1	2.10	0.51
1:h:530:LYS:HG2	1:h:531:ASP:N	2.23	0.51
1:i:271:ASP:O	1:k:434:ARG:NH2	2.43	0.51
1:k:472:THR:HB	1:k:475:GLU:OE1	2.10	0.51
1:m:240:VAL:HG13	1:m:686:TRP:HB2	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:242:THR:HG21	1:m:293:PHE:CE1	2.45	0.51
1:n:663:PHE:HA	1:r:373:MET:HE3	1.91	0.51
1:o:434:ARG:NH2	1:p:271:ASP:O	2.43	0.51
1:q:530:LYS:HG2	1:q:531:ASP:N	2.23	0.51
1:s:472:THR:HB	1:s:475:GLU:OE1	2.10	0.51
1:x:504:ALA:O	1:x:508:ALA:HB2	2.11	0.51
1:x:591:ALA:HA	1:y:499:ASN:ND2	2.25	0.51
1:5:218:GLY:HA3	1:5:409:ASN:HA	1.91	0.51
1:5:242:THR:HG21	1:5:293:PHE:CE1	2.45	0.51
1:D:504:ALA:O	1:D:508:ALA:HB2	2.11	0.51
1:F:499:ASN:ND2	1:Q:591:ALA:HA	2.25	0.51
1:G:504:ALA:O	1:G:508:ALA:HB2	2.11	0.51
1:K:260:GLN:OE1	1:K:275:PHE:HE1	1.94	0.51
1:N:240:VAL:HG13	1:N:686:TRP:HB2	1.92	0.51
1:P:472:THR:HB	1:P:475:GLU:OE1	2.10	0.51
1:Q:240:VAL:HG13	1:Q:686:TRP:HB2	1.92	0.51
1:T:242:THR:HG21	1:T:293:PHE:CE1	2.45	0.51
1:T:504:ALA:O	1:T:508:ALA:HB2	2.11	0.51
1:U:242:THR:HG21	1:U:293:PHE:CE1	2.45	0.51
1:V:504:ALA:O	1:V:508:ALA:HB2	2.11	0.51
1:W:242:THR:HG21	1:W:293:PHE:CE1	2.45	0.51
1:Z:472:THR:HB	1:Z:475:GLU:OE1	2.10	0.51
1:d:240:VAL:HG13	1:d:686:TRP:HB2	1.92	0.51
1:i:240:VAL:HG13	1:i:686:TRP:HB2	1.92	0.51
1:m:591:ALA:HA	1:n:499:ASN:ND2	2.25	0.51
1:n:240:VAL:HG13	1:n:686:TRP:HB2	1.92	0.51
1:s:240:VAL:HG13	1:s:686:TRP:HB2	1.92	0.51
1:s:242:THR:HG21	1:s:293:PHE:CE1	2.45	0.51
1:v:530:LYS:HG2	1:v:531:ASP:N	2.23	0.51
1:w:271:ASP:O	1:y:434:ARG:NH2	2.44	0.51
1:4:260:GLN:OE1	1:4:275:PHE:HE1	1.94	0.51
1:4:418:GLU:OE2	1:4:642:LYS:N	2.42	0.51
1:8:472:THR:HB	1:8:475:GLU:OE1	2.10	0.51
1:C:430:GLN:NE2	1:b:353:PRO:HB3	2.24	0.51
1:D:472:THR:HB	1:D:475:GLU:OE1	2.10	0.51
1:G:242:THR:HG21	1:G:293:PHE:CE1	2.45	0.51
1:H:218:GLY:HA3	1:H:409:ASN:HA	1.91	0.51
1:M:242:THR:HG21	1:M:293:PHE:CE1	2.45	0.51
1:P:415:TYR:OH	1:P:643:HIS:O	2.27	0.51
1:S:260:GLN:OE1	1:S:275:PHE:HE1	1.94	0.51
1:T:240:VAL:HG13	1:T:686:TRP:HB2	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:510:LYS:HA	1:W:520:VAL:HG23	1.93	0.51
1:c:242:THR:HG21	1:c:293:PHE:CE1	2.45	0.51
1:c:663:PHE:HA	1:s:373:MET:HE3	1.91	0.51
1:e:242:THR:HG21	1:e:293:PHE:CE1	2.45	0.51
1:f:353:PRO:HB3	1:g:430:GLN:NE2	2.24	0.51
1:h:418:GLU:OE2	1:h:642:LYS:N	2.42	0.51
1:k:504:ALA:O	1:k:508:ALA:HB2	2.11	0.51
1:l:240:VAL:HG13	1:l:686:TRP:HB2	1.92	0.51
1:o:240:VAL:HG13	1:o:686:TRP:HB2	1.92	0.51
1:p:504:ALA:O	1:p:508:ALA:HB2	2.11	0.51
1:r:260:GLN:OE1	1:r:275:PHE:HE1	1.94	0.51
1:r:472:THR:HB	1:r:475:GLU:OE1	2.10	0.51
1:t:242:THR:HG21	1:t:293:PHE:CE1	2.45	0.51
1:z:591:ALA:HA	1:1:499:ASN:ND2	2.25	0.51
1:6:242:THR:HG21	1:6:293:PHE:CE1	2.45	0.51
1:A:271:ASP:O	1:I:434:ARG:NH2	2.44	0.51
1:A:510:LYS:HA	1:A:520:VAL:HG23	1.93	0.51
1:A:709:GLN:NE2	1:A:711:GLY:O	2.44	0.51
1:E:271:ASP:O	1:F:434:ARG:NH2	2.44	0.51
1:E:709:GLN:NE2	1:E:711:GLY:O	2.44	0.51
1:I:472:THR:HB	1:I:475:GLU:OE1	2.10	0.51
1:J:434:ARG:NH2	1:L:271:ASP:O	2.44	0.51
1:K:418:GLU:OE2	1:K:642:LYS:N	2.42	0.51
1:K:709:GLN:NE2	1:K:711:GLY:O	2.44	0.51
1:M:240:VAL:HG13	1:M:686:TRP:HB2	1.92	0.51
1:M:260:GLN:OE1	1:M:275:PHE:HE1	1.94	0.51
1:M:510:LYS:HA	1:M:520:VAL:HG23	1.93	0.51
1:O:240:VAL:HG13	1:O:686:TRP:HB2	1.92	0.51
1:R:240:VAL:HG13	1:R:686:TRP:HB2	1.92	0.51
1:T:472:THR:HB	1:T:475:GLU:OE1	2.10	0.51
1:T:591:ALA:HA	1:d:499:ASN:ND2	2.25	0.51
1:U:373:MET:HE3	1:e:663:PHE:HA	1.91	0.51
1:X:709:GLN:NE2	1:X:711:GLY:O	2.44	0.51
1:Y:504:ALA:O	1:Y:508:ALA:HB2	2.11	0.51
1:Y:530:LYS:HG2	1:Y:531:ASP:N	2.23	0.51
1:c:709:GLN:NE2	1:c:711:GLY:O	2.44	0.51
1:d:510:LYS:HA	1:d:520:VAL:HG23	1.93	0.51
1:e:709:GLN:NE2	1:e:711:GLY:O	2.44	0.51
1:f:271:ASP:O	1:g:434:ARG:NH2	2.44	0.51
1:h:242:THR:HG21	1:h:293:PHE:CE1	2.45	0.51
1:h:260:GLN:OE1	1:h:275:PHE:HE1	1.94	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:373:MET:HE3	1:i:663:PHE:HA	1.91	0.51
1:h:504:ALA:O	1:h:508:ALA:HB2	2.11	0.51
1:h:510:LYS:HA	1:h:520:VAL:HG23	1.93	0.51
1:m:504:ALA:O	1:m:508:ALA:HB2	2.11	0.51
1:o:472:THR:HB	1:o:475:GLU:OE1	2.10	0.51
1:o:709:GLN:NE2	1:o:711:GLY:O	2.44	0.51
1:q:504:ALA:O	1:q:508:ALA:HB2	2.11	0.51
1:r:242:THR:HG21	1:r:293:PHE:CE1	2.45	0.51
1:s:418:GLU:OE2	1:s:642:LYS:N	2.42	0.51
1:t:504:ALA:O	1:t:508:ALA:HB2	2.11	0.51
1:t:530:LYS:HG2	1:t:531:ASP:N	2.23	0.51
1:u:434:ARG:NH2	1:v:271:ASP:O	2.44	0.51
1:v:510:LYS:HA	1:v:520:VAL:HG23	1.93	0.51
1:v:709:GLN:NE2	1:v:711:GLY:O	2.44	0.51
1:x:472:THR:HB	1:x:475:GLU:OE1	2.10	0.51
1:z:271:ASP:O	1:2:434:ARG:NH2	2.44	0.51
1:4:218:GLY:HA3	1:4:409:ASN:HA	1.91	0.51
1:4:709:GLN:NE2	1:4:711:GLY:O	2.44	0.51
1:6:510:LYS:HA	1:6:520:VAL:HG23	1.93	0.51
1:7:530:LYS:HG2	1:7:531:ASP:N	2.23	0.51
1:8:504:ALA:O	1:8:508:ALA:HB2	2.11	0.51
1:B:242:THR:HG21	1:B:293:PHE:CE1	2.45	0.51
1:B:499:ASN:ND2	1:L:591:ALA:HA	2.25	0.51
1:B:510:LYS:HA	1:B:520:VAL:HG23	1.93	0.51
1:C:434:ARG:NH2	1:b:271:ASP:O	2.44	0.51
1:D:434:ARG:NH2	1:N:271:ASP:O	2.44	0.51
1:G:530:LYS:HG2	1:G:531:ASP:N	2.23	0.51
1:I:232:ASP:OD1	1:I:233:SER:N	2.44	0.51
1:I:510:LYS:HA	1:I:520:VAL:HG23	1.93	0.51
1:J:504:ALA:O	1:J:508:ALA:HB2	2.11	0.51
1:K:218:GLY:HA3	1:K:409:ASN:HA	1.91	0.51
1:L:510:LYS:HA	1:L:520:VAL:HG23	1.93	0.51
1:M:373:MET:HE3	1:N:663:PHE:HA	1.91	0.51
1:M:504:ALA:O	1:M:508:ALA:HB2	2.11	0.51
1:O:472:THR:HB	1:O:475:GLU:OE1	2.10	0.51
1:P:530:LYS:HG2	1:P:531:ASP:N	2.23	0.51
1:Q:472:THR:HB	1:Q:475:GLU:OE1	2.10	0.51
1:Q:510:LYS:HA	1:Q:520:VAL:HG23	1.93	0.51
1:R:591:ALA:HA	1:S:499:ASN:ND2	2.25	0.51
1:S:242:THR:HG21	1:S:293:PHE:CE1	2.45	0.51
1:S:472:THR:HB	1:S:475:GLU:OE1	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:510:LYS:HA	1:U:520:VAL:HG23	1.93	0.51
1:U:709:GLN:NE2	1:U:711:GLY:O	2.44	0.51
1:X:472:THR:HB	1:X:475:GLU:OE1	2.10	0.51
1:Y:260:GLN:OE1	1:Y:275:PHE:HE1	1.94	0.51
1:Z:504:ALA:O	1:Z:508:ALA:HB2	2.11	0.51
1:Z:591:ALA:HA	1:4:499:ASN:ND2	2.25	0.51
1:a:232:ASP:OD1	1:a:233:SER:N	2.44	0.51
1:a:504:ALA:O	1:a:508:ALA:HB2	2.11	0.51
1:a:564:GLU:OE2	1:a:614:TYR:OH	2.15	0.51
1:b:472:THR:HB	1:b:475:GLU:OE1	2.10	0.51
1:b:709:GLN:NE2	1:b:711:GLY:O	2.44	0.51
1:c:472:THR:HB	1:c:475:GLU:OE1	2.10	0.51
1:c:504:ALA:O	1:c:508:ALA:HB2	2.11	0.51
1:e:472:THR:HB	1:e:475:GLU:OE1	2.10	0.51
1:f:472:THR:HB	1:f:475:GLU:OE1	2.10	0.51
1:f:591:ALA:HA	1:h:499:ASN:ND2	2.26	0.51
1:g:564:GLU:OE2	1:g:614:TYR:OH	2.15	0.51
1:g:709:GLN:NE2	1:g:711:GLY:O	2.44	0.51
1:h:240:VAL:HG13	1:h:686:TRP:HB2	1.92	0.51
1:k:485:CYS:HG	1:k:578:TYR:HB2	1.76	0.51
1:l:472:THR:HB	1:l:475:GLU:OE1	2.10	0.51
1:m:472:THR:HB	1:m:475:GLU:OE1	2.10	0.51
1:n:510:LYS:HA	1:n:520:VAL:HG23	1.93	0.51
1:r:709:GLN:NE2	1:r:711:GLY:O	2.44	0.51
1:s:510:LYS:HA	1:s:520:VAL:HG23	1.93	0.51
1:u:226:SER:HG	1:u:319:ASN:H	1.56	0.51
1:u:232:ASP:OD1	1:u:233:SER:N	2.44	0.51
1:u:472:THR:HB	1:u:475:GLU:OE1	2.10	0.51
1:v:504:ALA:O	1:v:508:ALA:HB2	2.11	0.51
1:w:242:THR:HG21	1:w:293:PHE:CE1	2.45	0.51
1:z:510:LYS:HA	1:z:520:VAL:HG23	1.93	0.51
1:1:510:LYS:HA	1:1:520:VAL:HG23	1.93	0.51
1:2:504:ALA:O	1:2:508:ALA:HB2	2.11	0.51
1:3:271:ASP:O	1:4:434:ARG:NH2	2.44	0.51
1:3:504:ALA:O	1:3:508:ALA:HB2	2.11	0.51
1:5:709:GLN:NE2	1:5:711:GLY:O	2.44	0.51
1:7:260:GLN:OE1	1:7:275:PHE:HE1	1.94	0.51
1:7:504:ALA:O	1:7:508:ALA:HB2	2.11	0.51
1:8:226:SER:HG	1:8:319:ASN:H	1.55	0.51
1:A:504:ALA:O	1:A:508:ALA:HB2	2.11	0.51
1:B:226:SER:HG	1:B:319:ASN:H	1.54	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:GLN:OE1	1:B:275:PHE:HE1	1.94	0.51
1:C:232:ASP:OD1	1:C:233:SER:N	2.44	0.51
1:C:663:PHE:HA	1:D:373:MET:HE3	1.91	0.51
1:C:709:GLN:NE2	1:C:711:GLY:O	2.44	0.51
1:E:242:THR:HG21	1:E:293:PHE:CE1	2.45	0.51
1:H:591:ALA:HA	1:W:499:ASN:ND2	2.25	0.51
1:H:709:GLN:NE2	1:H:711:GLY:O	2.44	0.51
1:K:434:ARG:NH2	1:a:271:ASP:O	2.44	0.51
1:K:499:ASN:ND2	1:8:591:ALA:HA	2.25	0.51
1:M:499:ASN:ND2	1:b:591:ALA:HA	2.26	0.51
1:P:232:ASP:OD1	1:P:233:SER:N	2.44	0.51
1:S:434:ARG:NH2	1:U:271:ASP:O	2.44	0.51
1:S:709:GLN:NE2	1:S:711:GLY:O	2.44	0.51
1:U:418:GLU:OE2	1:U:642:LYS:N	2.42	0.51
1:b:504:ALA:O	1:b:508:ALA:HB2	2.11	0.51
1:c:485:CYS:HG	1:c:578:TYR:HB2	1.75	0.51
1:d:434:ARG:NH2	1:l:271:ASP:O	2.44	0.51
1:e:504:ALA:O	1:e:508:ALA:HB2	2.11	0.51
1:f:709:GLN:NE2	1:f:711:GLY:O	2.44	0.51
1:g:663:PHE:HA	1:k:373:MET:HE3	1.91	0.51
1:k:232:ASP:OD1	1:k:233:SER:N	2.44	0.51
1:n:709:GLN:NE2	1:n:711:GLY:O	2.44	0.51
1:q:591:ALA:HA	1:r:499:ASN:ND2	2.25	0.51
1:s:709:GLN:NE2	1:s:711:GLY:O	2.44	0.51
1:u:510:LYS:HA	1:u:520:VAL:HG23	1.93	0.51
1:w:709:GLN:NE2	1:w:711:GLY:O	2.44	0.51
1:x:510:LYS:HA	1:x:520:VAL:HG23	1.93	0.51
1:z:709:GLN:NE2	1:z:711:GLY:O	2.44	0.51
1:1:242:THR:HG21	1:1:293:PHE:CE1	2.45	0.51
1:3:232:ASP:OD1	1:3:233:SER:N	2.44	0.51
1:3:564:GLU:OE2	1:3:614:TYR:OH	2.15	0.51
1:5:499:ASN:ND2	1:7:591:ALA:HA	2.25	0.51
1:5:591:ALA:HA	1:6:499:ASN:ND2	2.25	0.51
1:F:242:THR:HG21	1:F:293:PHE:CE1	2.45	0.51
1:H:434:ARG:NH2	1:W:271:ASP:O	2.44	0.51
1:H:499:ASN:ND2	1:Y:591:ALA:HA	2.25	0.51
1:L:260:GLN:OE1	1:L:275:PHE:HE1	1.94	0.51
1:L:709:GLN:NE2	1:L:711:GLY:O	2.44	0.51
1:M:232:ASP:OD1	1:M:233:SER:N	2.44	0.51
1:O:271:ASP:O	1:n:434:ARG:NH2	2.44	0.51
1:O:510:LYS:HA	1:O:520:VAL:HG23	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:504:ALA:O	1:P:508:ALA:HB2	2.11	0.51
1:R:260:GLN:OE1	1:R:275:PHE:HE1	1.94	0.51
1:R:434:ARG:NH2	1:S:271:ASP:O	2.43	0.51
1:R:504:ALA:O	1:R:508:ALA:HB2	2.11	0.51
1:U:226:SER:HG	1:U:319:ASN:H	1.55	0.51
1:X:232:ASP:OD1	1:X:233:SER:N	2.44	0.51
1:Z:560:LEU:HB3	1:Z:727:PRO:HD3	1.93	0.51
1:Z:709:GLN:NE2	1:Z:711:GLY:O	2.44	0.51
1:c:530:LYS:HG2	1:c:531:ASP:N	2.23	0.51
1:d:709:GLN:NE2	1:d:711:GLY:O	2.44	0.51
1:e:560:LEU:HB3	1:e:727:PRO:HD3	1.94	0.51
1:f:499:ASN:ND2	1:g:591:ALA:HA	2.25	0.51
1:f:504:ALA:O	1:f:508:ALA:HB2	2.11	0.51
1:g:232:ASP:OD1	1:g:233:SER:N	2.44	0.51
1:h:232:ASP:OD1	1:h:233:SER:N	2.44	0.51
1:i:472:THR:HB	1:i:475:GLU:OE1	2.10	0.51
1:j:232:ASP:OD1	1:j:233:SER:N	2.44	0.51
1:j:530:LYS:HG2	1:j:531:ASP:N	2.23	0.51
1:o:232:ASP:OD1	1:o:233:SER:N	2.44	0.51
1:o:260:GLN:OE1	1:o:275:PHE:HE1	1.94	0.51
1:q:240:VAL:HG13	1:q:686:TRP:HB2	1.92	0.51
1:q:260:GLN:OE1	1:q:275:PHE:HE1	1.94	0.51
1:q:560:LEU:HB3	1:q:727:PRO:HD3	1.93	0.51
1:y:242:THR:HG21	1:y:293:PHE:CE1	2.45	0.51
1:z:260:GLN:OE1	1:z:275:PHE:HE1	1.94	0.51
1:1:260:GLN:OE1	1:1:275:PHE:HE1	1.94	0.51
1:5:502:ASN:HA	1:7:450:THR:OG1	2.11	0.51
1:7:510:LYS:HA	1:7:520:VAL:HG23	1.93	0.51
1:8:709:GLN:NE2	1:8:711:GLY:O	2.44	0.51
1:A:591:ALA:HA	1:G:499:ASN:ND2	2.26	0.50
1:C:564:GLU:OE2	1:C:614:TYR:OH	2.15	0.50
1:D:232:ASP:OD1	1:D:233:SER:N	2.44	0.50
1:E:472:THR:HB	1:E:475:GLU:OE1	2.10	0.50
1:H:502:ASN:HA	1:Y:450:THR:OG1	2.11	0.50
1:I:504:ALA:O	1:I:508:ALA:HB2	2.11	0.50
1:L:240:VAL:HG13	1:L:686:TRP:HB2	1.92	0.50
1:M:502:ASN:HA	1:b:450:THR:OG1	2.11	0.50
1:O:232:ASP:OD1	1:O:233:SER:N	2.44	0.50
1:O:242:THR:HG21	1:O:293:PHE:CE1	2.45	0.50
1:R:560:LEU:HB3	1:R:727:PRO:HD3	1.94	0.50
1:T:271:ASP:O	1:l:434:ARG:NH2	2.43	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:434:ARG:NH2	1:e:271:ASP:O	2.44	0.50
1:W:260:GLN:OE1	1:W:275:PHE:HE1	1.94	0.50
1:Y:510:LYS:HA	1:Y:520:VAL:HG23	1.93	0.50
1:c:560:LEU:HB3	1:c:727:PRO:HD3	1.94	0.50
1:d:242:THR:HG21	1:d:293:PHE:CE1	2.45	0.50
1:f:450:THR:OG1	1:h:502:ASN:HA	2.11	0.50
1:i:591:ALA:HA	1:j:499:ASN:ND2	2.25	0.50
1:j:504:ALA:O	1:j:508:ALA:HB2	2.11	0.50
1:l:510:LYS:HA	1:l:520:VAL:HG23	1.93	0.50
1:q:434:ARG:NH2	1:r:271:ASP:O	2.43	0.50
1:r:434:ARG:NH2	1:s:271:ASP:O	2.44	0.50
1:s:226:SER:HG	1:s:319:ASN:H	1.55	0.50
1:z:434:ARG:NH2	1:1:271:ASP:O	2.44	0.50
1:z:450:THR:OG1	1:1:502:ASN:HA	2.12	0.50
1:1:504:ALA:O	1:1:508:ALA:HB2	2.11	0.50
1:3:418:GLU:OE2	1:3:642:LYS:N	2.42	0.50
1:3:510:LYS:HA	1:3:520:VAL:HG23	1.93	0.50
1:5:434:ARG:NH2	1:6:271:ASP:O	2.44	0.50
1:6:591:ALA:HA	1:7:499:ASN:ND2	2.26	0.50
1:8:560:LEU:HB3	1:8:727:PRO:HD3	1.93	0.50
1:B:271:ASP:O	1:L:434:ARG:NH2	2.44	0.50
1:B:502:ASN:HA	1:L:450:THR:OG1	2.12	0.50
1:B:504:ALA:O	1:B:508:ALA:HB2	2.11	0.50
1:C:436:MET:HE1	1:C:473:MET:HB3	1.93	0.50
1:C:560:LEU:HB3	1:C:727:PRO:HD3	1.93	0.50
1:C:591:ALA:HA	1:b:499:ASN:ND2	2.25	0.50
1:F:260:GLN:OE1	1:F:275:PHE:HE1	1.94	0.50
1:G:240:VAL:HG13	1:G:686:TRP:HB2	1.92	0.50
1:G:709:GLN:NE2	1:G:711:GLY:O	2.44	0.50
1:H:504:ALA:O	1:H:508:ALA:HB2	2.11	0.50
1:O:321:GLN:NE2	1:P:340:SER:HA	2.27	0.50
1:P:260:GLN:OE1	1:P:275:PHE:HE1	1.94	0.50
1:R:709:GLN:NE2	1:R:711:GLY:O	2.44	0.50
1:T:560:LEU:HB3	1:T:727:PRO:HD3	1.94	0.50
1:U:504:ALA:O	1:U:508:ALA:HB2	2.11	0.50
1:V:450:THR:OG1	1:e:502:ASN:HA	2.12	0.50
1:V:560:LEU:HB3	1:V:727:PRO:HD3	1.93	0.50
1:V:709:GLN:NE2	1:V:711:GLY:O	2.44	0.50
1:W:591:ALA:HA	1:Y:499:ASN:ND2	2.26	0.50
1:a:418:GLU:OE2	1:a:642:LYS:N	2.42	0.50
1:a:510:LYS:HA	1:a:520:VAL:HG23	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:709:GLN:NE2	1:a:711:GLY:O	2.44	0.50
1:c:434:ARG:NH2	1:o:271:ASP:O	2.44	0.50
1:c:502:ASN:HA	1:p:450:THR:OG1	2.12	0.50
1:d:450:THR:OG1	1:l:502:ASN:HA	2.12	0.50
1:e:232:ASP:OD1	1:e:233:SER:N	2.44	0.50
1:g:230:HIS:O	1:g:245:THR:OG1	2.19	0.50
1:h:709:GLN:NE2	1:h:711:GLY:O	2.44	0.50
1:i:499:ASN:ND2	1:k:591:ALA:HA	2.27	0.50
1:j:260:GLN:OE1	1:j:275:PHE:HE1	1.94	0.50
1:l:232:ASP:OD1	1:l:233:SER:N	2.44	0.50
1:l:242:THR:HG21	1:l:293:PHE:CE1	2.45	0.50
1:m:560:LEU:HB3	1:m:727:PRO:HD3	1.94	0.50
1:n:242:THR:HG21	1:n:293:PHE:CE1	2.45	0.50
1:q:709:GLN:NE2	1:q:711:GLY:O	2.44	0.50
1:r:504:ALA:O	1:r:508:ALA:HB2	2.11	0.50
1:t:240:VAL:HG13	1:t:686:TRP:HB2	1.92	0.50
1:t:271:ASP:O	1:v:434:ARG:NH2	2.44	0.50
1:t:709:GLN:NE2	1:t:711:GLY:O	2.44	0.50
1:w:232:ASP:OD1	1:w:233:SER:N	2.44	0.50
1:x:418:GLU:OE2	1:x:642:LYS:N	2.42	0.50
1:y:260:GLN:OE1	1:y:275:PHE:HE1	1.94	0.50
1:z:240:VAL:HG13	1:z:686:TRP:HB2	1.92	0.50
1:z:242:THR:HG21	1:z:293:PHE:CE1	2.45	0.50
1:1:240:VAL:HG13	1:1:686:TRP:HB2	1.92	0.50
1:3:260:GLN:OE1	1:3:275:PHE:HE1	1.94	0.50
1:3:709:GLN:NE2	1:3:711:GLY:O	2.44	0.50
1:6:260:GLN:OE1	1:6:275:PHE:HE1	1.94	0.50
1:6:504:ALA:O	1:6:508:ALA:HB2	2.11	0.50
1:B:240:VAL:HG13	1:B:686:TRP:HB2	1.92	0.50
1:C:502:ASN:HA	1:M:450:THR:OG1	2.12	0.50
1:D:242:THR:HG21	1:D:293:PHE:CE1	2.45	0.50
1:D:436:MET:HE1	1:D:473:MET:HB3	1.93	0.50
1:D:591:ALA:HA	1:N:499:ASN:ND2	2.27	0.50
1:E:232:ASP:OD1	1:E:233:SER:N	2.44	0.50
1:F:504:ALA:O	1:F:508:ALA:HB2	2.11	0.50
1:J:591:ALA:HA	1:L:499:ASN:ND2	2.25	0.50
1:L:560:LEU:HB3	1:L:727:PRO:HD3	1.93	0.50
1:M:709:GLN:NE2	1:M:711:GLY:O	2.44	0.50
1:N:472:THR:HB	1:N:475:GLU:OE1	2.10	0.50
1:N:709:GLN:NE2	1:N:711:GLY:O	2.44	0.50
1:O:405:LEU:HD21	1:O:411:PHE:HB2	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:434:ARG:NH2	1:m:271:ASP:O	2.43	0.50
1:O:502:ASN:HA	1:n:450:THR:OG1	2.12	0.50
1:O:560:LEU:HB3	1:O:727:PRO:HD3	1.94	0.50
1:O:709:GLN:NE2	1:O:711:GLY:O	2.44	0.50
1:Q:418:GLU:OE2	1:Q:642:LYS:N	2.42	0.50
1:Q:709:GLN:NE2	1:Q:711:GLY:O	2.44	0.50
1:S:504:ALA:O	1:S:508:ALA:HB2	2.11	0.50
1:U:232:ASP:OD1	1:U:233:SER:N	2.44	0.50
1:W:504:ALA:O	1:W:508:ALA:HB2	2.11	0.50
1:X:502:ASN:HA	1:e:450:THR:OG1	2.11	0.50
1:a:260:GLN:OE1	1:a:275:PHE:HE1	1.94	0.50
1:b:232:ASP:OD1	1:b:233:SER:N	2.44	0.50
1:b:445:TYR:CE1	1:b:467:GLN:HG3	2.47	0.50
1:c:232:ASP:OD1	1:c:233:SER:N	2.44	0.50
1:c:271:ASP:O	1:p:434:ARG:NH2	2.44	0.50
1:e:485:CYS:HG	1:e:578:TYR:HB2	1.76	0.50
1:e:530:LYS:HG2	1:e:531:ASP:N	2.23	0.50
1:f:232:ASP:OD1	1:f:233:SER:N	2.44	0.50
1:g:502:ASN:HA	1:h:450:THR:OG1	2.12	0.50
1:g:560:LEU:HB3	1:g:727:PRO:HD3	1.94	0.50
1:i:434:ARG:NH2	1:j:271:ASP:O	2.43	0.50
1:k:436:MET:HE1	1:k:473:MET:HB3	1.94	0.50
1:l:560:LEU:HB3	1:l:727:PRO:HD3	1.94	0.50
1:l:709:GLN:NE2	1:l:711:GLY:O	2.44	0.50
1:m:510:LYS:HA	1:m:520:VAL:HG23	1.93	0.50
1:o:450:THR:OG1	1:p:502:ASN:HA	2.12	0.50
1:p:560:LEU:HB3	1:p:727:PRO:HD3	1.93	0.50
1:p:709:GLN:NE2	1:p:711:GLY:O	2.44	0.50
1:r:450:THR:OG1	1:s:502:ASN:HA	2.12	0.50
1:t:499:ASN:ND2	1:v:591:ALA:HA	2.26	0.50
1:u:504:ALA:O	1:u:508:ALA:HB2	2.11	0.50
1:w:472:THR:HB	1:w:475:GLU:OE1	2.10	0.50
1:x:560:LEU:HB3	1:x:727:PRO:HD3	1.93	0.50
1:z:499:ASN:ND2	1:2:591:ALA:HA	2.25	0.50
1:1:226:SER:HG	1:1:319:ASN:H	1.54	0.50
1:5:504:ALA:O	1:5:508:ALA:HB2	2.11	0.50
1:6:564:GLU:OE2	1:6:614:TYR:OH	2.15	0.50
1:8:530:LYS:HG2	1:8:531:ASP:N	2.23	0.50
1:A:232:ASP:OD1	1:A:233:SER:N	2.44	0.50
1:B:472:THR:HB	1:B:475:GLU:OE1	2.10	0.50
1:F:560:LEU:HB3	1:F:727:PRO:HD3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:434:ARG:NH2	1:I:271:ASP:O	2.43	0.50
1:G:450:THR:OG1	1:I:502:ASN:HA	2.12	0.50
1:I:709:GLN:NE2	1:I:711:GLY:O	2.44	0.50
1:J:405:LEU:HD21	1:J:411:PHE:HB2	1.94	0.50
1:J:450:THR:OG1	1:L:502:ASN:HA	2.12	0.50
1:J:560:LEU:HB3	1:J:727:PRO:HD3	1.93	0.50
1:K:271:ASP:O	1:8:434:ARG:NH2	2.43	0.50
1:K:560:LEU:HB3	1:K:727:PRO:HD3	1.94	0.50
1:L:242:THR:HG21	1:L:293:PHE:CE1	2.45	0.50
1:N:260:GLN:OE1	1:N:275:PHE:HE1	1.94	0.50
1:S:450:THR:OG1	1:U:502:ASN:HA	2.12	0.50
1:T:450:THR:OG1	1:d:502:ASN:HA	2.12	0.50
1:T:510:LYS:HA	1:T:520:VAL:HG23	1.93	0.50
1:V:502:ASN:HA	1:X:450:THR:OG1	2.12	0.50
1:X:271:ASP:O	1:e:434:ARG:NH2	2.44	0.50
1:a:436:MET:HE1	1:a:473:MET:HB3	1.94	0.50
1:a:445:TYR:CE1	1:a:467:GLN:HG3	2.47	0.50
1:a:450:THR:OG1	1:8:502:ASN:HA	2.12	0.50
1:b:418:GLU:OE2	1:b:642:LYS:N	2.42	0.50
1:c:450:THR:OG1	1:o:502:ASN:HA	2.12	0.50
1:d:436:MET:HE1	1:d:473:MET:HB3	1.94	0.50
1:d:591:ALA:HA	1:l:499:ASN:ND2	2.25	0.50
1:f:445:TYR:CE1	1:f:467:GLN:HG3	2.47	0.50
1:g:436:MET:HE1	1:g:473:MET:HB3	1.94	0.50
1:g:499:ASN:ND2	1:h:591:ALA:HA	2.25	0.50
1:i:260:GLN:OE1	1:i:275:PHE:HE1	1.94	0.50
1:i:709:GLN:NE2	1:i:711:GLY:O	2.44	0.50
1:k:242:THR:HG21	1:k:293:PHE:CE1	2.45	0.50
1:k:709:GLN:NE2	1:k:711:GLY:O	2.44	0.50
1:l:405:LEU:HD21	1:l:411:PHE:HB2	1.94	0.50
1:m:450:THR:OG1	1:n:502:ASN:HA	2.12	0.50
1:s:232:ASP:OD1	1:s:233:SER:N	2.44	0.50
1:s:504:ALA:O	1:s:508:ALA:HB2	2.11	0.50
1:t:434:ARG:NH2	1:u:271:ASP:O	2.43	0.50
1:t:450:THR:OG1	1:u:502:ASN:HA	2.12	0.50
1:u:260:GLN:OE1	1:u:275:PHE:HE1	1.94	0.50
1:v:232:ASP:OD1	1:v:233:SER:N	2.44	0.50
1:w:260:GLN:OE1	1:w:275:PHE:HE1	1.94	0.50
1:x:709:GLN:NE2	1:x:711:GLY:O	2.44	0.50
1:z:502:ASN:HA	1:2:450:THR:OG1	2.12	0.50
1:z:560:LEU:HB3	1:z:727:PRO:HD3	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:472:THR:HB	1:1:475:GLU:OE1	2.10	0.50
1:2:232:ASP:OD1	1:2:233:SER:N	2.44	0.50
1:2:405:LEU:HD21	1:2:411:PHE:HB2	1.94	0.50
1:3:436:MET:HE1	1:3:473:MET:HB3	1.94	0.50
1:3:445:TYR:CE1	1:3:467:GLN:HG3	2.47	0.50
1:4:560:LEU:HB3	1:4:727:PRO:HD3	1.94	0.50
1:6:709:GLN:NE2	1:6:711:GLY:O	2.44	0.50
1:A:434:ARG:NH2	1:G:271:ASP:O	2.44	0.50
1:B:445:TYR:CE1	1:B:467:GLN:HG3	2.47	0.50
1:B:450:THR:OG1	1:J:502:ASN:HA	2.12	0.50
1:C:499:ASN:ND2	1:M:591:ALA:HA	2.25	0.50
1:D:260:GLN:OE1	1:D:275:PHE:HE1	1.94	0.50
1:D:709:GLN:NE2	1:D:711:GLY:O	2.44	0.50
1:E:560:LEU:HB3	1:E:727:PRO:HD3	1.94	0.50
1:G:510:LYS:HA	1:G:520:VAL:HG23	1.93	0.50
1:H:560:LEU:HB3	1:H:727:PRO:HD3	1.94	0.50
1:I:242:THR:HG21	1:I:293:PHE:CE1	2.45	0.50
1:J:232:ASP:OD1	1:J:233:SER:N	2.44	0.50
1:N:436:MET:HE1	1:N:473:MET:HB3	1.93	0.50
1:O:260:GLN:OE1	1:O:275:PHE:HE1	1.94	0.50
1:O:450:THR:OG1	1:m:502:ASN:HA	2.12	0.50
1:Q:405:LEU:HD21	1:Q:411:PHE:HB2	1.94	0.50
1:Q:560:LEU:HB3	1:Q:727:PRO:HD3	1.94	0.50
1:T:232:ASP:OD1	1:T:233:SER:N	2.44	0.50
1:T:502:ASN:HA	1:l:450:THR:OG1	2.12	0.50
1:V:260:GLN:OE1	1:V:275:PHE:HE1	1.94	0.50
1:V:405:LEU:HD21	1:V:411:PHE:HB2	1.94	0.50
1:Y:709:GLN:NE2	1:Y:711:GLY:O	2.44	0.50
1:Z:434:ARG:NH2	1:4:271:ASP:O	2.43	0.50
1:Z:436:MET:HE1	1:Z:473:MET:HB3	1.94	0.50
1:Z:445:TYR:CE1	1:Z:467:GLN:HG3	2.47	0.50
1:Z:510:LYS:HA	1:Z:520:VAL:HG23	1.93	0.50
1:c:240:VAL:HG13	1:c:686:TRP:HB2	1.92	0.50
1:c:510:LYS:HA	1:c:520:VAL:HG23	1.93	0.50
1:d:560:LEU:HB3	1:d:727:PRO:HD3	1.94	0.50
1:f:436:MET:HE1	1:f:473:MET:HB3	1.94	0.50
1:i:232:ASP:OD1	1:i:233:SER:N	2.44	0.50
1:i:436:MET:HE1	1:i:473:MET:HB3	1.94	0.50
1:i:445:TYR:CE1	1:i:467:GLN:HG3	2.47	0.50
1:j:450:THR:OG1	1:k:502:ASN:HA	2.12	0.50
1:j:591:ALA:HA	1:k:499:ASN:ND2	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:260:GLN:OE1	1:k:275:PHE:HE1	1.94	0.50
1:m:405:LEU:HD21	1:m:411:PHE:HB2	1.94	0.50
1:n:436:MET:HE1	1:n:473:MET:HB3	1.94	0.50
1:p:405:LEU:HD21	1:p:411:PHE:HB2	1.94	0.50
1:u:405:LEU:HD21	1:u:411:PHE:HB2	1.94	0.50
1:u:709:GLN:NE2	1:u:711:GLY:O	2.44	0.50
1:v:405:LEU:HD21	1:v:411:PHE:HB2	1.94	0.50
1:w:499:ASN:ND2	1:y:591:ALA:HA	2.26	0.50
1:w:560:LEU:HB3	1:w:727:PRO:HD3	1.94	0.50
1:y:504:ALA:O	1:y:508:ALA:HB2	2.11	0.50
1:y:560:LEU:HB3	1:y:727:PRO:HD3	1.94	0.50
1:1:450:THR:OG1	1:2:502:ASN:HA	2.12	0.50
1:1:709:GLN:NE2	1:1:711:GLY:O	2.44	0.50
1:2:560:LEU:HB3	1:2:727:PRO:HD3	1.94	0.50
1:3:405:LEU:HD21	1:3:411:PHE:HB2	1.94	0.50
1:5:405:LEU:HD21	1:5:411:PHE:HB2	1.94	0.50
1:5:560:LEU:HB3	1:5:727:PRO:HD3	1.94	0.50
1:7:709:GLN:NE2	1:7:711:GLY:O	2.44	0.50
1:8:436:MET:HE1	1:8:473:MET:HB3	1.94	0.50
1:8:445:TYR:CE1	1:8:467:GLN:HG3	2.47	0.50
1:A:472:THR:HB	1:A:475:GLU:OE1	2.10	0.50
1:B:709:GLN:NE2	1:B:711:GLY:O	2.44	0.50
1:E:260:GLN:OE1	1:E:275:PHE:HE1	1.94	0.50
1:E:499:ASN:ND2	1:F:591:ALA:HA	2.26	0.50
1:G:405:LEU:HD21	1:G:411:PHE:HB2	1.94	0.50
1:G:445:TYR:CE1	1:G:467:GLN:HG3	2.47	0.50
1:H:232:ASP:OD1	1:H:233:SER:N	2.44	0.50
1:H:405:LEU:HD21	1:H:411:PHE:HB2	1.94	0.50
1:H:445:TYR:CE1	1:H:467:GLN:HG3	2.47	0.50
1:I:260:GLN:OE1	1:I:275:PHE:HE1	1.94	0.50
1:I:405:LEU:HD21	1:I:411:PHE:HB2	1.94	0.50
1:L:232:ASP:OD1	1:L:233:SER:N	2.44	0.50
1:L:504:ALA:O	1:L:508:ALA:HB2	2.11	0.50
1:M:445:TYR:CE1	1:M:467:GLN:HG3	2.47	0.50
1:N:445:TYR:CE1	1:N:467:GLN:HG3	2.47	0.50
1:N:504:ALA:O	1:N:508:ALA:HB2	2.11	0.50
1:P:405:LEU:HD21	1:P:411:PHE:HB2	1.94	0.50
1:T:405:LEU:HD21	1:T:411:PHE:HB2	1.94	0.50
1:W:450:THR:OG1	1:Y:502:ASN:HA	2.12	0.50
1:W:709:GLN:NE2	1:W:711:GLY:O	2.44	0.50
1:X:260:GLN:OE1	1:X:275:PHE:HE1	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:240:VAL:HG13	1:Y:686:TRP:HB2	1.92	0.50
1:Z:502:ASN:HA	1:3:450:THR:OG1	2.12	0.50
1:a:405:LEU:HD21	1:a:411:PHE:HB2	1.94	0.50
1:b:436:MET:HE1	1:b:473:MET:HB3	1.94	0.50
1:d:504:ALA:O	1:d:508:ALA:HB2	2.11	0.50
1:e:240:VAL:HG13	1:e:686:TRP:HB2	1.92	0.50
1:f:418:GLU:OE2	1:f:642:LYS:N	2.42	0.50
1:h:445:TYR:CE1	1:h:467:GLN:HG3	2.47	0.50
1:i:504:ALA:O	1:i:508:ALA:HB2	2.11	0.50
1:n:560:LEU:HB3	1:n:727:PRO:HD3	1.94	0.50
1:o:591:ALA:HA	1:p:499:ASN:ND2	2.25	0.50
1:p:260:GLN:OE1	1:p:275:PHE:HE1	1.94	0.50
1:q:510:LYS:HA	1:q:520:VAL:HG23	1.93	0.50
1:r:405:LEU:HD21	1:r:411:PHE:HB2	1.94	0.50
1:t:445:TYR:CE1	1:t:467:GLN:HG3	2.47	0.50
1:u:242:THR:HG21	1:u:293:PHE:CE1	2.45	0.50
1:x:405:LEU:HD21	1:x:411:PHE:HB2	1.94	0.50
1:z:232:ASP:OD1	1:z:233:SER:N	2.44	0.50
1:z:504:ALA:O	1:z:508:ALA:HB2	2.11	0.50
1:1:445:TYR:CE1	1:1:467:GLN:HG3	2.47	0.50
1:5:232:ASP:OD1	1:5:233:SER:N	2.44	0.50
1:8:510:LYS:HA	1:8:520:VAL:HG23	1.93	0.50
1:E:445:TYR:CE1	1:E:467:GLN:HG3	2.47	0.50
1:G:260:GLN:OE1	1:G:275:PHE:HE1	1.94	0.50
1:I:436:MET:HE1	1:I:473:MET:HB3	1.94	0.50
1:J:260:GLN:OE1	1:J:275:PHE:HE1	1.94	0.50
1:L:418:GLU:OE2	1:L:642:LYS:N	2.42	0.50
1:N:232:ASP:OD1	1:N:233:SER:N	2.44	0.50
1:O:499:ASN:ND2	1:n:591:ALA:HA	2.26	0.50
1:P:436:MET:HE1	1:P:473:MET:HB3	1.94	0.50
1:P:709:GLN:NE2	1:P:711:GLY:O	2.44	0.50
1:R:405:LEU:HD21	1:R:411:PHE:HB2	1.94	0.50
1:R:510:LYS:HA	1:R:520:VAL:HG23	1.93	0.50
1:S:405:LEU:HD21	1:S:411:PHE:HB2	1.94	0.50
1:S:436:MET:HE1	1:S:473:MET:HB3	1.94	0.50
1:U:445:TYR:CE1	1:U:467:GLN:HG3	2.47	0.50
1:V:499:ASN:ND2	1:X:591:ALA:HA	2.25	0.50
1:X:504:ALA:O	1:X:508:ALA:HB2	2.11	0.50
1:Z:232:ASP:OD1	1:Z:233:SER:N	2.44	0.50
1:b:622:LYS:HB2	1:b:644:PRO:HG3	1.94	0.50
1:e:510:LYS:HA	1:e:520:VAL:HG23	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:622:LYS:HB2	1:f:644:PRO:HG3	1.94	0.50
1:j:405:LEU:HD21	1:j:411:PHE:HB2	1.94	0.50
1:j:709:GLN:NE2	1:j:711:GLY:O	2.44	0.50
1:m:232:ASP:OD1	1:m:233:SER:N	2.44	0.50
1:n:504:ALA:O	1:n:508:ALA:HB2	2.11	0.50
1:o:504:ALA:O	1:o:508:ALA:HB2	2.11	0.50
1:r:436:MET:HE1	1:r:473:MET:HB3	1.94	0.50
1:t:405:LEU:HD21	1:t:411:PHE:HB2	1.94	0.50
1:t:510:LYS:HA	1:t:520:VAL:HG23	1.93	0.50
1:u:436:MET:HE1	1:u:473:MET:HB3	1.94	0.50
1:w:445:TYR:CE1	1:w:467:GLN:HG3	2.47	0.50
1:x:260:GLN:OE1	1:x:275:PHE:HE1	1.94	0.50
1:z:418:GLU:OE2	1:z:642:LYS:N	2.42	0.50
1:2:260:GLN:OE1	1:2:275:PHE:HE1	1.94	0.50
1:2:510:LYS:HA	1:2:520:VAL:HG23	1.93	0.50
1:3:230:HIS:O	1:3:245:THR:OG1	2.19	0.50
1:5:226:SER:HG	1:5:319:ASN:H	1.55	0.50
1:5:445:TYR:CE1	1:5:467:GLN:HG3	2.47	0.50
1:6:450:THR:OG1	1:7:502:ASN:HA	2.12	0.50
1:A:405:LEU:HD21	1:A:411:PHE:HB2	1.94	0.50
1:B:232:ASP:OD1	1:B:233:SER:N	2.44	0.50
1:B:405:LEU:HD21	1:B:411:PHE:HB2	1.94	0.50
1:C:230:HIS:O	1:C:245:THR:OG1	2.19	0.50
1:J:510:LYS:HA	1:J:520:VAL:HG23	1.93	0.50
1:K:232:ASP:OD1	1:K:233:SER:N	2.44	0.50
1:K:436:MET:HE1	1:K:473:MET:HB3	1.94	0.50
1:P:560:LEU:HB3	1:P:727:PRO:HD3	1.94	0.50
1:Q:260:GLN:OE1	1:Q:275:PHE:HE1	1.94	0.50
1:Y:560:LEU:HB3	1:Y:727:PRO:HD3	1.94	0.50
1:Z:450:THR:OG1	1:4:502:ASN:HA	2.12	0.50
1:b:560:LEU:HB3	1:b:727:PRO:HD3	1.94	0.50
1:c:436:MET:HE1	1:c:473:MET:HB3	1.94	0.50
1:e:436:MET:HE1	1:e:473:MET:HB3	1.94	0.50
1:f:502:ASN:HA	1:g:450:THR:OG1	2.12	0.50
1:g:530:LYS:HG2	1:g:531:ASP:N	2.23	0.50
1:j:436:MET:HE1	1:j:473:MET:HB3	1.94	0.50
1:j:510:LYS:HA	1:j:520:VAL:HG23	1.93	0.50
1:q:405:LEU:HD21	1:q:411:PHE:HB2	1.94	0.50
1:r:445:TYR:CE1	1:r:467:GLN:HG3	2.47	0.50
1:s:445:TYR:CE1	1:s:467:GLN:HG3	2.47	0.50
1:x:445:TYR:CE1	1:x:467:GLN:HG3	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:418:GLU:OE2	1:y:642:LYS:N	2.42	0.50
1:1:405:LEU:HD21	1:1:411:PHE:HB2	1.94	0.50
1:1:564:GLU:OE2	1:1:614:TYR:OH	2.15	0.50
1:4:436:MET:HE1	1:4:473:MET:HB3	1.94	0.50
1:6:445:TYR:CE1	1:6:467:GLN:HG3	2.47	0.50
1:6:560:LEU:HB3	1:6:727:PRO:HD3	1.94	0.50
1:7:240:VAL:HG13	1:7:686:TRP:HB2	1.92	0.50
1:7:405:LEU:HD21	1:7:411:PHE:HB2	1.94	0.50
1:8:232:ASP:OD1	1:8:233:SER:N	2.44	0.50
1:C:450:THR:OG1	1:b:502:ASN:HA	2.12	0.50
1:C:530:LYS:HG2	1:C:531:ASP:N	2.23	0.50
1:E:434:ARG:NH2	1:Q:271:ASP:O	2.44	0.50
1:E:699:GLU:HG2	1:P:296:ARG:NE	2.27	0.50
1:F:418:GLU:OE2	1:F:642:LYS:N	2.42	0.50
1:G:232:ASP:OD1	1:G:233:SER:N	2.44	0.50
1:K:502:ASN:HA	1:8:450:THR:OG1	2.12	0.50
1:M:405:LEU:HD21	1:M:411:PHE:HB2	1.94	0.50
1:P:510:LYS:HA	1:P:520:VAL:HG23	1.93	0.50
1:Q:445:TYR:CE1	1:Q:467:GLN:HG3	2.47	0.50
1:T:709:GLN:NE2	1:T:711:GLY:O	2.44	0.50
1:V:510:LYS:HA	1:V:520:VAL:HG23	1.93	0.50
1:W:445:TYR:CE1	1:W:467:GLN:HG3	2.47	0.50
1:W:560:LEU:HB3	1:W:727:PRO:HD3	1.94	0.50
1:W:564:GLU:OE2	1:W:614:TYR:OH	2.15	0.50
1:X:622:LYS:HB2	1:X:644:PRO:HG3	1.94	0.50
1:Y:405:LEU:HD21	1:Y:411:PHE:HB2	1.94	0.50
1:a:434:ARG:NH2	1:8:271:ASP:O	2.44	0.50
1:a:622:LYS:HB2	1:a:644:PRO:HG3	1.94	0.50
1:f:560:LEU:HB3	1:f:727:PRO:HD3	1.94	0.50
1:h:405:LEU:HD21	1:h:411:PHE:HB2	1.94	0.50
1:j:560:LEU:HB3	1:j:727:PRO:HD3	1.94	0.50
1:k:510:LYS:HA	1:k:520:VAL:HG23	1.93	0.50
1:m:418:GLU:OE2	1:m:642:LYS:N	2.42	0.50
1:o:622:LYS:HB2	1:o:644:PRO:HG3	1.94	0.50
1:p:510:LYS:HA	1:p:520:VAL:HG23	1.93	0.50
1:s:260:GLN:OE1	1:s:275:PHE:HE1	1.94	0.50
1:t:232:ASP:OD1	1:t:233:SER:N	2.44	0.50
1:t:260:GLN:OE1	1:t:275:PHE:HE1	1.94	0.50
1:v:472:THR:HB	1:v:475:GLU:OE1	2.10	0.50
1:w:434:ARG:NH2	1:x:271:ASP:O	2.43	0.50
1:4:232:ASP:OD1	1:4:233:SER:N	2.44	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:405:LEU:HD21	1:4:411:PHE:HB2	1.94	0.50
1:7:445:TYR:CE1	1:7:467:GLN:HG3	2.47	0.50
1:7:560:LEU:HB3	1:7:727:PRO:HD3	1.94	0.50
1:A:450:THR:OG1	1:G:502:ASN:HA	2.11	0.49
1:B:434:ARG:NH2	1:J:271:ASP:O	2.43	0.49
1:C:260:GLN:OE1	1:C:275:PHE:HE1	1.94	0.49
1:D:450:THR:OG1	1:N:502:ASN:HA	2.11	0.49
1:D:510:LYS:HA	1:D:520:VAL:HG23	1.93	0.49
1:F:709:GLN:NE2	1:F:711:GLY:O	2.44	0.49
1:K:405:LEU:HD21	1:K:411:PHE:HB2	1.94	0.49
1:M:271:ASP:O	1:b:434:ARG:NH2	2.44	0.49
1:N:405:LEU:HD21	1:N:411:PHE:HB2	1.94	0.49
1:N:510:LYS:HA	1:N:520:VAL:HG23	1.93	0.49
1:S:445:TYR:CE1	1:S:467:GLN:HG3	2.47	0.49
1:U:260:GLN:OE1	1:U:275:PHE:HE1	1.94	0.49
1:W:511:TYR:HD2	1:W:520:VAL:HG22	1.77	0.49
1:X:510:LYS:HA	1:X:520:VAL:HG23	1.93	0.49
1:Y:445:TYR:CE1	1:Y:467:GLN:HG3	2.47	0.49
1:Z:260:GLN:OE1	1:Z:275:PHE:HE1	1.94	0.49
1:Z:271:ASP:O	1:3:434:ARG:NH2	2.44	0.49
1:Z:511:TYR:HD2	1:Z:520:VAL:HG22	1.77	0.49
1:f:434:ARG:NH2	1:h:271:ASP:O	2.44	0.49
1:i:405:LEU:HD21	1:i:411:PHE:HB2	1.94	0.49
1:i:510:LYS:HA	1:i:520:VAL:HG23	1.93	0.49
1:m:709:GLN:NE2	1:m:711:GLY:O	2.44	0.49
1:o:510:LYS:HA	1:o:520:VAL:HG23	1.93	0.49
1:x:434:ARG:NH2	1:y:271:ASP:O	2.44	0.49
1:y:709:GLN:NE2	1:y:711:GLY:O	2.44	0.49
1:1:232:ASP:OD1	1:1:233:SER:N	2.44	0.49
1:3:622:LYS:HB2	1:3:644:PRO:HG3	1.94	0.49
1:5:511:TYR:HD2	1:5:520:VAL:HG22	1.77	0.49
1:6:434:ARG:NH2	1:7:271:ASP:O	2.44	0.49
1:8:511:TYR:HD2	1:8:520:VAL:HG22	1.77	0.49
1:F:271:ASP:O	1:Q:434:ARG:NH2	2.44	0.49
1:F:445:TYR:CE1	1:F:467:GLN:HG3	2.47	0.49
1:H:510:LYS:HA	1:H:520:VAL:HG23	1.93	0.49
1:H:511:TYR:HD2	1:H:520:VAL:HG22	1.77	0.49
1:I:560:LEU:HB3	1:I:727:PRO:HD3	1.93	0.49
1:T:418:GLU:OE2	1:T:642:LYS:N	2.42	0.49
1:T:622:LYS:HB2	1:T:644:PRO:HG3	1.94	0.49
1:V:530:LYS:HG2	1:V:531:ASP:N	2.23	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:232:ASP:OD1	1:Y:233:SER:N	2.44	0.49
1:a:230:HIS:O	1:a:245:THR:OG1	2.19	0.49
1:b:511:TYR:HD2	1:b:520:VAL:HG22	1.77	0.49
1:l:511:TYR:HD2	1:l:520:VAL:HG22	1.77	0.49
1:u:560:LEU:HB3	1:u:727:PRO:HD3	1.93	0.49
1:x:450:THR:OG1	1:y:502:ASN:HA	2.12	0.49
1:y:510:LYS:HA	1:y:520:VAL:HG23	1.93	0.49
1:1:434:ARG:NH2	1:2:271:ASP:O	2.43	0.49
1:5:510:LYS:HA	1:5:520:VAL:HG23	1.93	0.49
1:6:511:TYR:HD2	1:6:520:VAL:HG22	1.78	0.49
1:A:511:TYR:HD2	1:A:520:VAL:HG22	1.77	0.49
1:D:490:ARG:NH1	1:P:585:LEU:HD23	2.27	0.49
1:F:510:LYS:HA	1:F:520:VAL:HG23	1.93	0.49
1:I:511:TYR:HD2	1:I:520:VAL:HG22	1.77	0.49
1:J:709:GLN:NE2	1:J:711:GLY:O	2.44	0.49
1:L:511:TYR:HD2	1:L:520:VAL:HG22	1.78	0.49
1:R:502:ASN:HA	1:U:450:THR:OG1	2.12	0.49
1:U:560:LEU:HB3	1:U:727:PRO:HD3	1.93	0.49
1:W:434:ARG:NH2	1:Y:271:ASP:O	2.44	0.49
1:f:511:TYR:HD2	1:f:520:VAL:HG22	1.77	0.49
1:m:622:LYS:HB2	1:m:644:PRO:HG3	1.94	0.49
1:n:405:LEU:HD21	1:n:411:PHE:HB2	1.94	0.49
1:o:436:MET:HE1	1:o:473:MET:HB3	1.94	0.49
1:q:436:MET:HE1	1:q:473:MET:HB3	1.94	0.49
1:q:502:ASN:HA	1:s:450:THR:OG1	2.12	0.49
1:v:445:TYR:CE1	1:v:467:GLN:HG3	2.47	0.49
1:y:445:TYR:CE1	1:y:467:GLN:HG3	2.47	0.49
1:z:511:TYR:HD2	1:z:520:VAL:HG22	1.78	0.49
1:2:564:GLU:OE2	1:2:614:TYR:OH	2.15	0.49
1:8:260:GLN:OE1	1:8:275:PHE:HE1	1.94	0.49
1:B:564:GLU:OE2	1:B:614:TYR:OH	2.15	0.49
1:C:510:LYS:HA	1:C:520:VAL:HG23	1.93	0.49
1:E:502:ASN:HA	1:F:450:THR:OG1	2.12	0.49
1:F:502:ASN:HA	1:Q:450:THR:OG1	2.12	0.49
1:F:622:LYS:HB2	1:F:644:PRO:HG3	1.94	0.49
1:H:622:LYS:HB2	1:H:644:PRO:HG3	1.94	0.49
1:O:511:TYR:HD2	1:O:520:VAL:HG22	1.78	0.49
1:R:436:MET:HE1	1:R:473:MET:HB3	1.94	0.49
1:S:510:LYS:HA	1:S:520:VAL:HG23	1.93	0.49
1:Z:530:LYS:HG2	1:Z:531:ASP:N	2.23	0.49
1:d:405:LEU:HD21	1:d:411:PHE:HB2	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:622:LYS:HB2	1:i:644:PRO:HG3	1.94	0.49
1:k:622:LYS:HB2	1:k:644:PRO:HG3	1.94	0.49
1:p:232:ASP:OD1	1:p:233:SER:N	2.44	0.49
1:s:560:LEU:HB3	1:s:727:PRO:HD3	1.93	0.49
1:s:622:LYS:HB2	1:s:644:PRO:HG3	1.94	0.49
1:t:502:ASN:HA	1:v:450:THR:OG1	2.12	0.49
1:u:445:TYR:CE1	1:u:467:GLN:HG3	2.47	0.49
1:u:466:TYR:CD1	1:v:553:LYS:HG2	2.48	0.49
1:u:511:TYR:HD2	1:u:520:VAL:HG22	1.77	0.49
1:v:511:TYR:HD2	1:v:520:VAL:HG22	1.77	0.49
1:v:622:LYS:HB2	1:v:644:PRO:HG3	1.94	0.49
1:w:510:LYS:HA	1:w:520:VAL:HG23	1.93	0.49
1:y:622:LYS:HB2	1:y:644:PRO:HG3	1.94	0.49
1:2:709:GLN:NE2	1:2:711:GLY:O	2.44	0.49
1:4:510:LYS:HA	1:4:520:VAL:HG23	1.93	0.49
1:5:622:LYS:HB2	1:5:644:PRO:HG3	1.94	0.49
1:6:232:ASP:OD1	1:6:233:SER:N	2.44	0.49
1:7:232:ASP:OD1	1:7:233:SER:N	2.44	0.49
1:A:445:TYR:CE1	1:A:467:GLN:HG3	2.47	0.49
1:A:502:ASN:HA	1:I:450:THR:OG1	2.12	0.49
1:A:622:LYS:HB2	1:A:644:PRO:HG3	1.94	0.49
1:F:436:MET:HE1	1:F:473:MET:HB3	1.94	0.49
1:F:511:TYR:HD2	1:F:520:VAL:HG22	1.77	0.49
1:G:436:MET:HE1	1:G:473:MET:HB3	1.94	0.49
1:I:445:TYR:CE1	1:I:467:GLN:HG3	2.47	0.49
1:K:510:LYS:HA	1:K:520:VAL:HG23	1.93	0.49
1:K:622:LYS:HB2	1:K:644:PRO:HG3	1.94	0.49
1:M:384:ASN:ND2	1:b:532:ASP:OD1	2.43	0.49
1:M:622:LYS:HB2	1:M:644:PRO:HG3	1.94	0.49
1:N:622:LYS:HB2	1:N:644:PRO:HG3	1.94	0.49
1:O:553:LYS:HG2	1:n:466:TYR:CD1	2.48	0.49
1:Q:511:TYR:HD2	1:Q:520:VAL:HG22	1.77	0.49
1:R:445:TYR:CE1	1:R:467:GLN:HG3	2.47	0.49
1:R:450:THR:OG1	1:S:502:ASN:HA	2.12	0.49
1:U:622:LYS:HB2	1:U:644:PRO:HG3	1.94	0.49
1:V:232:ASP:OD1	1:V:233:SER:N	2.44	0.49
1:X:436:MET:HE1	1:X:473:MET:HB3	1.94	0.49
1:b:603:LEU:HB2	1:b:606:MET:HE3	1.95	0.49
1:f:260:GLN:OE1	1:f:275:PHE:HE1	1.94	0.49
1:f:510:LYS:HA	1:f:520:VAL:HG23	1.93	0.49
1:f:603:LEU:HB2	1:f:606:MET:HE3	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:510:LYS:HA	1:g:520:VAL:HG23	1.93	0.49
1:h:622:LYS:HB2	1:h:644:PRO:HG3	1.94	0.49
1:i:466:TYR:CD1	1:j:553:LYS:HG2	2.47	0.49
1:j:434:ARG:NH2	1:k:271:ASP:O	2.44	0.49
1:n:445:TYR:CE1	1:n:467:GLN:HG3	2.47	0.49
1:o:405:LEU:HD21	1:o:411:PHE:HB2	1.94	0.49
1:p:530:LYS:HG2	1:p:531:ASP:N	2.23	0.49
1:q:511:TYR:HD2	1:q:520:VAL:HG22	1.78	0.49
1:r:510:LYS:HA	1:r:520:VAL:HG23	1.93	0.49
1:r:560:LEU:HB3	1:r:727:PRO:HD3	1.94	0.49
1:t:603:LEU:HB2	1:t:606:MET:HE3	1.95	0.49
1:y:511:TYR:HD2	1:y:520:VAL:HG22	1.77	0.49
1:4:622:LYS:HB2	1:4:644:PRO:HG3	1.94	0.49
1:7:603:LEU:HB2	1:7:606:MET:HE3	1.95	0.49
1:B:560:LEU:HB3	1:B:727:PRO:HD3	1.93	0.49
1:C:271:ASP:O	1:M:434:ARG:NH2	2.43	0.49
1:C:445:TYR:CE1	1:C:467:GLN:HG3	2.47	0.49
1:E:510:LYS:HA	1:E:520:VAL:HG23	1.93	0.49
1:G:622:LYS:HB2	1:G:644:PRO:HG3	1.94	0.49
1:K:445:TYR:CE1	1:K:467:GLN:HG3	2.47	0.49
1:K:466:TYR:CD1	1:a:553:LYS:HG2	2.48	0.49
1:Q:232:ASP:OD1	1:Q:233:SER:N	2.44	0.49
1:Q:436:MET:HE1	1:Q:473:MET:HB3	1.94	0.49
1:R:511:TYR:HD2	1:R:520:VAL:HG22	1.78	0.49
1:T:434:ARG:NH2	1:d:271:ASP:O	2.44	0.49
1:U:436:MET:HE1	1:U:473:MET:HB3	1.93	0.49
1:W:232:ASP:OD1	1:W:233:SER:N	2.44	0.49
1:X:405:LEU:HD21	1:X:411:PHE:HB2	1.94	0.49
1:Y:418:GLU:OE2	1:Y:642:LYS:N	2.42	0.49
1:Y:436:MET:HE1	1:Y:473:MET:HB3	1.93	0.49
1:Y:603:LEU:HB2	1:Y:606:MET:HE3	1.95	0.49
1:Z:405:LEU:HD21	1:Z:411:PHE:HB2	1.94	0.49
1:a:511:TYR:HD2	1:a:520:VAL:HG22	1.77	0.49
1:b:510:LYS:HA	1:b:520:VAL:HG23	1.93	0.49
1:c:405:LEU:HD21	1:c:411:PHE:HB2	1.94	0.49
1:d:445:TYR:CE1	1:d:467:GLN:HG3	2.47	0.49
1:e:405:LEU:HD21	1:e:411:PHE:HB2	1.94	0.49
1:e:445:TYR:CE1	1:e:467:GLN:HG3	2.47	0.49
1:g:271:ASP:O	1:h:434:ARG:NH2	2.44	0.49
1:l:603:LEU:HB2	1:l:606:MET:HE3	1.95	0.49
1:o:560:LEU:HB3	1:o:727:PRO:HD3	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:232:ASP:OD1	1:q:233:SER:N	2.44	0.49
1:q:450:THR:OG1	1:r:502:ASN:HA	2.12	0.49
1:t:436:MET:HE1	1:t:473:MET:HB3	1.94	0.49
1:t:622:LYS:HB2	1:t:644:PRO:HG3	1.94	0.49
1:u:450:THR:OG1	1:v:502:ASN:HA	2.12	0.49
1:w:502:ASN:HA	1:y:450:THR:OG1	2.12	0.49
1:x:511:TYR:HD2	1:x:520:VAL:HG22	1.77	0.49
1:1:560:LEU:HB3	1:1:727:PRO:HD3	1.93	0.49
1:3:553:LYS:HG2	1:4:466:TYR:CD1	2.48	0.49
1:5:553:LYS:HG2	1:7:466:TYR:CD1	2.48	0.49
1:7:418:GLU:OE2	1:7:642:LYS:N	2.42	0.49
1:B:345:PHE:CE1	1:B:400:PHE:HD2	2.31	0.49
1:C:345:PHE:CE1	1:C:400:PHE:HD2	2.31	0.49
1:D:622:LYS:HB2	1:D:644:PRO:HG3	1.94	0.49
1:G:560:LEU:HB3	1:G:727:PRO:HD3	1.94	0.49
1:G:603:LEU:HB2	1:G:606:MET:HE3	1.95	0.49
1:H:553:LYS:HG2	1:Y:466:TYR:CD1	2.48	0.49
1:J:445:TYR:CE1	1:J:467:GLN:HG3	2.47	0.49
1:J:466:TYR:CD1	1:L:553:LYS:HG2	2.48	0.49
1:L:436:MET:HE1	1:L:473:MET:HB3	1.93	0.49
1:M:603:LEU:HB2	1:M:606:MET:HE3	1.95	0.49
1:O:603:LEU:HB2	1:O:606:MET:HE3	1.95	0.49
1:R:232:ASP:OD1	1:R:233:SER:N	2.44	0.49
1:S:560:LEU:HB3	1:S:727:PRO:HD3	1.94	0.49
1:c:445:TYR:CE1	1:c:467:GLN:HG3	2.47	0.49
1:d:466:TYR:CD1	1:l:553:LYS:HG2	2.48	0.49
1:f:532:ASP:OD1	1:h:384:ASN:ND2	2.43	0.49
1:g:445:TYR:CE1	1:g:467:GLN:HG3	2.47	0.49
1:h:321:GLN:NE2	1:i:340:SER:HA	2.27	0.49
1:h:603:LEU:HB2	1:h:606:MET:HE3	1.95	0.49
1:i:502:ASN:HA	1:k:450:THR:OG1	2.12	0.49
1:k:564:GLU:OE2	1:k:614:TYR:OH	2.15	0.49
1:m:434:ARG:NH2	1:n:271:ASP:O	2.44	0.49
1:m:445:TYR:CE1	1:m:467:GLN:HG3	2.47	0.49
1:m:603:LEU:HB2	1:m:606:MET:HE3	1.95	0.49
1:o:445:TYR:CE1	1:o:467:GLN:HG3	2.47	0.49
1:p:418:GLU:OE2	1:p:642:LYS:N	2.42	0.49
1:p:445:TYR:CE1	1:p:467:GLN:HG3	2.47	0.49
1:x:232:ASP:OD1	1:x:233:SER:N	2.44	0.49
1:x:436:MET:HE1	1:x:473:MET:HB3	1.94	0.49
1:y:436:MET:HE1	1:y:473:MET:HB3	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:405:LEU:HD21	1:z:411:PHE:HB2	1.94	0.49
1:z:553:LYS:HG2	1:2:466:TYR:CD1	2.48	0.49
1:1:345:PHE:CE1	1:1:400:PHE:HD2	2.31	0.49
1:2:603:LEU:HB2	1:2:606:MET:HE3	1.95	0.49
1:3:502:ASN:HA	1:4:450:THR:OG1	2.12	0.49
1:3:511:TYR:HD2	1:3:520:VAL:HG22	1.77	0.49
1:6:405:LEU:HD21	1:6:411:PHE:HB2	1.94	0.49
1:7:436:MET:HE1	1:7:473:MET:HB3	1.93	0.49
1:8:405:LEU:HD21	1:8:411:PHE:HB2	1.94	0.49
1:A:466:TYR:CD1	1:G:553:LYS:HG2	2.48	0.49
1:A:553:LYS:HG2	1:I:466:TYR:CD1	2.48	0.49
1:C:511:TYR:HD2	1:C:520:VAL:HG22	1.78	0.49
1:C:622:LYS:HB2	1:C:644:PRO:HG3	1.94	0.49
1:F:232:ASP:OD1	1:F:233:SER:N	2.44	0.49
1:H:345:PHE:CE1	1:H:400:PHE:HD2	2.31	0.49
1:H:436:MET:HE1	1:H:473:MET:HB3	1.94	0.49
1:J:603:LEU:HB2	1:J:606:MET:HE3	1.95	0.49
1:K:511:TYR:HD2	1:K:520:VAL:HG22	1.78	0.49
1:P:445:TYR:CE1	1:P:467:GLN:HG3	2.47	0.49
1:S:603:LEU:HB2	1:S:606:MET:HE3	1.95	0.49
1:T:445:TYR:CE1	1:T:467:GLN:HG3	2.47	0.49
1:T:603:LEU:HB2	1:T:606:MET:HE3	1.95	0.49
1:V:436:MET:HE1	1:V:473:MET:HB3	1.94	0.49
1:V:445:TYR:CE1	1:V:467:GLN:HG3	2.47	0.49
1:W:405:LEU:HD21	1:W:411:PHE:HB2	1.94	0.49
1:W:436:MET:HE1	1:W:473:MET:HB3	1.93	0.49
1:X:445:TYR:CE1	1:X:467:GLN:HG3	2.47	0.49
1:X:560:LEU:HB3	1:X:727:PRO:HD3	1.94	0.49
1:c:603:LEU:HB2	1:c:606:MET:HE3	1.95	0.49
1:d:232:ASP:OD1	1:d:233:SER:N	2.44	0.49
1:d:260:GLN:OE1	1:d:275:PHE:HE1	1.94	0.49
1:e:603:LEU:HB2	1:e:606:MET:HE3	1.95	0.49
1:g:345:PHE:CE1	1:g:400:PHE:HD2	2.31	0.49
1:g:622:LYS:HB2	1:g:644:PRO:HG3	1.94	0.49
1:k:445:TYR:CE1	1:k:467:GLN:HG3	2.47	0.49
1:p:436:MET:HE1	1:p:473:MET:HB3	1.94	0.49
1:q:445:TYR:CE1	1:q:467:GLN:HG3	2.47	0.49
1:r:232:ASP:OD1	1:r:233:SER:N	2.44	0.49
1:r:603:LEU:HB2	1:r:606:MET:HE3	1.95	0.49
1:s:436:MET:HE1	1:s:473:MET:HB3	1.93	0.49
1:y:232:ASP:OD1	1:y:233:SER:N	2.44	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:436:MET:HE1	1:z:473:MET:HB3	1.93	0.49
1:2:445:TYR:CE1	1:2:467:GLN:HG3	2.47	0.49
1:4:445:TYR:CE1	1:4:467:GLN:HG3	2.47	0.49
1:4:511:TYR:HD2	1:4:520:VAL:HG22	1.78	0.49
1:5:345:PHE:CE1	1:5:400:PHE:HD2	2.31	0.49
1:5:436:MET:HE1	1:5:473:MET:HB3	1.94	0.49
1:6:436:MET:HE1	1:6:473:MET:HB3	1.93	0.49
1:B:436:MET:HE1	1:B:473:MET:HB3	1.94	0.49
1:D:445:TYR:CE1	1:D:467:GLN:HG3	2.47	0.49
1:J:436:MET:HE1	1:J:473:MET:HB3	1.94	0.49
1:J:564:GLU:OE2	1:J:614:TYR:OH	2.15	0.49
1:K:450:THR:OG1	1:a:502:ASN:HA	2.12	0.49
1:L:405:LEU:HD21	1:L:411:PHE:HB2	1.94	0.49
1:M:436:MET:HE1	1:M:473:MET:HB3	1.94	0.49
1:P:511:TYR:HD2	1:P:520:VAL:HG22	1.78	0.49
1:V:340:SER:HA	1:W:321:GLN:NE2	2.28	0.49
1:d:511:TYR:HD2	1:d:520:VAL:HG22	1.77	0.49
1:d:622:LYS:HB2	1:d:644:PRO:HG3	1.94	0.49
1:g:511:TYR:HD2	1:g:520:VAL:HG22	1.77	0.49
1:h:436:MET:HE1	1:h:473:MET:HB3	1.94	0.49
1:j:445:TYR:CE1	1:j:467:GLN:HG3	2.47	0.49
1:n:260:GLN:OE1	1:n:275:PHE:HE1	1.94	0.49
1:n:511:TYR:HD2	1:n:520:VAL:HG22	1.77	0.49
1:n:530:LYS:HG2	1:n:531:ASP:N	2.23	0.49
1:o:345:PHE:CE1	1:o:400:PHE:HD2	2.31	0.49
1:p:622:LYS:HB2	1:p:644:PRO:HG3	1.94	0.49
1:t:418:GLU:OE2	1:t:642:LYS:N	2.42	0.49
1:t:560:LEU:HB3	1:t:727:PRO:HD3	1.94	0.49
1:x:603:LEU:HB2	1:x:606:MET:HE3	1.95	0.49
1:1:436:MET:HE1	1:1:473:MET:HB3	1.94	0.49
1:A:340:SER:HA	1:B:321:GLN:NE2	2.28	0.49
1:A:436:MET:HE1	1:A:473:MET:HB3	1.94	0.49
1:B:603:LEU:HB2	1:B:606:MET:HE3	1.95	0.49
1:D:405:LEU:HD21	1:D:411:PHE:HB2	1.94	0.49
1:D:511:TYR:HD2	1:D:520:VAL:HG22	1.77	0.49
1:D:603:LEU:HB2	1:D:606:MET:HE3	1.95	0.49
1:E:622:LYS:HB2	1:E:644:PRO:HG3	1.94	0.49
1:F:603:LEU:HB2	1:F:606:MET:HE3	1.95	0.49
1:H:450:THR:OG1	1:W:502:ASN:HA	2.12	0.49
1:H:603:LEU:HB2	1:H:606:MET:HE3	1.95	0.49
1:L:622:LYS:HB2	1:L:644:PRO:HG3	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:560:LEU:HB3	1:N:727:PRO:HD3	1.94	0.49
1:O:466:TYR:CD1	1:m:553:LYS:HG2	2.48	0.49
1:Q:345:PHE:CE1	1:Q:400:PHE:HD2	2.31	0.49
1:S:232:ASP:OD1	1:S:233:SER:N	2.44	0.49
1:V:418:GLU:OE2	1:V:642:LYS:N	2.42	0.49
1:V:466:TYR:CD1	1:e:553:LYS:HG2	2.48	0.49
1:V:622:LYS:HB2	1:V:644:PRO:HG3	1.94	0.49
1:W:622:LYS:HB2	1:W:644:PRO:HG3	1.94	0.49
1:X:345:PHE:CE1	1:X:400:PHE:HD2	2.31	0.49
1:X:553:LYS:HG2	1:e:466:TYR:CD1	2.48	0.49
1:Z:622:LYS:HB2	1:Z:644:PRO:HG3	1.94	0.49
1:c:466:TYR:CD1	1:o:553:LYS:HG2	2.48	0.49
1:c:553:LYS:HG2	1:p:466:TYR:CD1	2.48	0.49
1:c:622:LYS:HB2	1:c:644:PRO:HG3	1.94	0.49
1:e:622:LYS:HB2	1:e:644:PRO:HG3	1.94	0.49
1:h:511:TYR:HD2	1:h:520:VAL:HG22	1.77	0.49
1:k:603:LEU:HB2	1:k:606:MET:HE3	1.95	0.49
1:l:436:MET:HE1	1:l:473:MET:HB3	1.94	0.49
1:m:436:MET:HE1	1:m:473:MET:HB3	1.94	0.49
1:n:232:ASP:OD1	1:n:233:SER:N	2.44	0.49
1:n:622:LYS:HB2	1:n:644:PRO:HG3	1.94	0.49
1:p:345:PHE:CE1	1:p:400:PHE:HD2	2.31	0.49
1:v:436:MET:HE1	1:v:473:MET:HB3	1.94	0.49
1:w:622:LYS:HB2	1:w:644:PRO:HG3	1.94	0.49
1:y:603:LEU:HB2	1:y:606:MET:HE3	1.95	0.49
1:z:622:LYS:HB2	1:z:644:PRO:HG3	1.94	0.49
1:1:622:LYS:HB2	1:1:644:PRO:HG3	1.94	0.49
1:2:436:MET:HE1	1:2:473:MET:HB3	1.94	0.49
1:5:603:LEU:HB2	1:5:606:MET:HE3	1.95	0.49
1:6:622:LYS:HB2	1:6:644:PRO:HG3	1.94	0.49
1:B:622:LYS:HB2	1:B:644:PRO:HG3	1.94	0.48
1:C:405:LEU:HD21	1:C:411:PHE:HB2	1.94	0.48
1:C:466:TYR:CD1	1:b:553:LYS:HG2	2.48	0.48
1:E:553:LYS:HG2	1:F:466:TYR:CD1	2.48	0.48
1:G:321:GLN:NE2	1:W:340:SER:HA	2.28	0.48
1:G:345:PHE:CE1	1:G:400:PHE:HD2	2.31	0.48
1:H:342:ILE:HD12	1:H:650:ILE:HD11	1.95	0.48
1:M:511:TYR:HD2	1:M:520:VAL:HG22	1.77	0.48
1:N:321:GLN:NE2	1:m:340:SER:HA	2.28	0.48
1:N:511:TYR:HD2	1:N:520:VAL:HG22	1.78	0.48
1:O:436:MET:HE1	1:O:473:MET:HB3	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:603:LEU:HB2	1:Q:606:MET:HE3	1.95	0.48
1:S:345:PHE:CE1	1:S:400:PHE:HD2	2.31	0.48
1:S:511:TYR:HD2	1:S:520:VAL:HG22	1.78	0.48
1:T:436:MET:HE1	1:T:473:MET:HB3	1.94	0.48
1:T:553:LYS:HG2	1:l:466:TYR:CD1	2.48	0.48
1:V:345:PHE:CE1	1:V:400:PHE:HD2	2.31	0.48
1:W:345:PHE:CE1	1:W:400:PHE:HD2	2.31	0.48
1:a:345:PHE:CE1	1:a:400:PHE:HD2	2.31	0.48
1:b:405:LEU:HD21	1:b:411:PHE:HB2	1.94	0.48
1:c:260:GLN:OE1	1:c:275:PHE:HE1	1.94	0.48
1:f:553:LYS:HG2	1:g:466:TYR:CD1	2.48	0.48
1:h:564:GLU:OE2	1:h:614:TYR:OH	2.15	0.48
1:i:511:TYR:HD2	1:i:520:VAL:HG22	1.77	0.48
1:i:560:LEU:HB3	1:i:727:PRO:HD3	1.94	0.48
1:i:603:LEU:HB2	1:i:606:MET:HE3	1.95	0.48
1:j:340:SER:HA	1:l:321:GLN:NE2	2.28	0.48
1:j:511:TYR:HD2	1:j:520:VAL:HG22	1.78	0.48
1:k:511:TYR:HD2	1:k:520:VAL:HG22	1.78	0.48
1:p:340:SER:HA	1:6:321:GLN:NE2	2.28	0.48
1:t:321:GLN:NE2	1:6:340:SER:HA	2.28	0.48
1:t:345:PHE:CE1	1:t:400:PHE:HD2	2.31	0.48
1:t:466:TYR:CD1	1:u:553:LYS:HG2	2.48	0.48
1:w:436:MET:HE1	1:w:473:MET:HB3	1.93	0.48
1:w:450:THR:OG1	1:x:502:ASN:HA	2.12	0.48
1:x:345:PHE:CE1	1:x:400:PHE:HD2	2.31	0.48
1:x:532:ASP:OD1	1:y:384:ASN:ND2	2.43	0.48
1:1:603:LEU:HB2	1:1:606:MET:HE3	1.95	0.48
1:2:511:TYR:HD2	1:2:520:VAL:HG22	1.78	0.48
1:3:345:PHE:CE1	1:3:400:PHE:HD2	2.31	0.48
1:3:603:LEU:HB2	1:3:606:MET:HE3	1.95	0.48
1:5:342:ILE:HD12	1:5:650:ILE:HD11	1.95	0.48
1:6:345:PHE:CE1	1:6:400:PHE:HD2	2.31	0.48
1:6:603:LEU:HB2	1:6:606:MET:HE3	1.95	0.48
1:8:622:LYS:HB2	1:8:644:PRO:HG3	1.94	0.48
1:A:560:LEU:HB3	1:A:727:PRO:HD3	1.94	0.48
1:E:405:LEU:HD21	1:E:411:PHE:HB2	1.94	0.48
1:E:450:THR:OG1	1:Q:502:ASN:HA	2.12	0.48
1:E:511:TYR:HD2	1:E:520:VAL:HG22	1.77	0.48
1:F:384:ASN:ND2	1:Q:532:ASP:OD1	2.42	0.48
1:G:466:TYR:CD1	1:I:553:LYS:HG2	2.48	0.48
1:I:321:GLN:NE2	1:J:340:SER:HA	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:345:PHE:CE1	1:I:400:PHE:HD2	2.31	0.48
1:J:226:SER:HG	1:J:319:ASN:H	1.55	0.48
1:J:511:TYR:HD2	1:J:520:VAL:HG22	1.78	0.48
1:M:321:GLN:NE2	1:N:340:SER:HA	2.28	0.48
1:N:603:LEU:HB2	1:N:606:MET:HE3	1.95	0.48
1:O:345:PHE:CE1	1:O:400:PHE:HD2	2.31	0.48
1:O:445:TYR:CE1	1:O:467:GLN:HG3	2.47	0.48
1:Q:530:LYS:HG2	1:Q:531:ASP:N	2.23	0.48
1:R:622:LYS:HB2	1:R:644:PRO:HG3	1.94	0.48
1:W:603:LEU:HB2	1:W:606:MET:HE3	1.95	0.48
1:X:340:SER:HA	1:f:321:GLN:NE2	2.29	0.48
1:Y:321:GLN:NE2	1:4:340:SER:HA	2.28	0.48
1:a:603:LEU:HB2	1:a:606:MET:HE3	1.95	0.48
1:b:321:GLN:NE2	1:o:340:SER:HA	2.29	0.48
1:f:405:LEU:HD21	1:f:411:PHE:HB2	1.94	0.48
1:g:405:LEU:HD21	1:g:411:PHE:HB2	1.94	0.48
1:k:405:LEU:HD21	1:k:411:PHE:HB2	1.94	0.48
1:r:345:PHE:CE1	1:r:400:PHE:HD2	2.31	0.48
1:r:511:TYR:HD2	1:r:520:VAL:HG22	1.78	0.48
1:s:405:LEU:HD21	1:s:411:PHE:HB2	1.94	0.48
1:u:321:GLN:NE2	1:2:340:SER:HA	2.29	0.48
1:w:553:LYS:HG2	1:y:466:TYR:CD1	2.48	0.48
1:y:342:ILE:HD12	1:y:650:ILE:HD11	1.95	0.48
1:2:622:LYS:HB2	1:2:644:PRO:HG3	1.94	0.48
1:4:345:PHE:CE1	1:4:400:PHE:HD2	2.31	0.48
1:5:450:THR:OG1	1:6:502:ASN:HA	2.12	0.48
1:7:345:PHE:CE1	1:7:400:PHE:HD2	2.31	0.48
1:F:342:ILE:HD12	1:F:650:ILE:HD11	1.96	0.48
1:F:345:PHE:CE1	1:F:400:PHE:HD2	2.31	0.48
1:J:345:PHE:CE1	1:J:400:PHE:HD2	2.31	0.48
1:K:340:SER:HA	1:7:321:GLN:NE2	2.28	0.48
1:K:345:PHE:CE1	1:K:400:PHE:HD2	2.31	0.48
1:L:345:PHE:CE1	1:L:400:PHE:HD2	2.31	0.48
1:L:530:LYS:HG2	1:L:531:ASP:N	2.23	0.48
1:P:622:LYS:HB2	1:P:644:PRO:HG3	1.94	0.48
1:S:622:LYS:HB2	1:S:644:PRO:HG3	1.94	0.48
1:U:405:LEU:HD21	1:U:411:PHE:HB2	1.94	0.48
1:V:511:TYR:HD2	1:V:520:VAL:HG22	1.78	0.48
1:V:603:LEU:HB2	1:V:606:MET:HE3	1.95	0.48
1:W:342:ILE:HD12	1:W:650:ILE:HD11	1.95	0.48
1:W:466:TYR:CD1	1:Y:553:LYS:HG2	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:345:PHE:CE1	1:Y:400:PHE:HD2	2.31	0.48
1:a:342:ILE:HD12	1:a:650:ILE:HD11	1.96	0.48
1:d:530:LYS:HG2	1:d:531:ASP:N	2.23	0.48
1:g:485:CYS:HG	1:g:578:TYR:HB2	1.78	0.48
1:j:466:TYR:CD1	1:k:553:LYS:HG2	2.48	0.48
1:j:622:LYS:HB2	1:j:644:PRO:HG3	1.94	0.48
1:p:485:CYS:HG	1:p:578:TYR:HB2	1.77	0.48
1:p:511:TYR:HD2	1:p:520:VAL:HG22	1.78	0.48
1:p:603:LEU:HB2	1:p:606:MET:HE3	1.95	0.48
1:q:603:LEU:HB2	1:q:606:MET:HE3	1.95	0.48
1:q:622:LYS:HB2	1:q:644:PRO:HG3	1.94	0.48
1:w:405:LEU:HD21	1:w:411:PHE:HB2	1.94	0.48
1:y:345:PHE:CE1	1:y:400:PHE:HD2	2.31	0.48
1:z:445:TYR:CE1	1:z:467:GLN:HG3	2.47	0.48
1:2:226:SER:HG	1:2:319:ASN:H	1.55	0.48
1:3:342:ILE:HD12	1:3:650:ILE:HD11	1.96	0.48
1:5:260:GLN:OE1	1:5:275:PHE:HE1	1.94	0.48
1:6:342:ILE:HD12	1:6:650:ILE:HD11	1.95	0.48
1:6:466:TYR:CD1	1:7:553:LYS:HG2	2.48	0.48
1:B:466:TYR:CD1	1:J:553:LYS:HG2	2.48	0.48
1:C:340:SER:HA	1:D:321:GLN:NE2	2.28	0.48
1:C:485:CYS:HG	1:C:578:TYR:HB2	1.78	0.48
1:D:340:SER:HA	1:E:321:GLN:NE2	2.28	0.48
1:E:436:MET:HE1	1:E:473:MET:HB3	1.94	0.48
1:F:321:GLN:NE2	1:G:340:SER:HA	2.29	0.48
1:H:340:SER:HA	1:Z:321:GLN:NE2	2.28	0.48
1:J:342:ILE:HD12	1:J:650:ILE:HD11	1.96	0.48
1:J:622:LYS:HB2	1:J:644:PRO:HG3	1.94	0.48
1:K:321:GLN:NE2	1:L:340:SER:HA	2.28	0.48
1:L:321:GLN:NE2	1:b:340:SER:HA	2.29	0.48
1:L:564:GLU:OE2	1:L:614:TYR:OH	2.15	0.48
1:M:345:PHE:CE1	1:M:400:PHE:HD2	2.31	0.48
1:N:450:THR:OG1	1:P:502:ASN:HA	2.13	0.48
1:P:603:LEU:HB2	1:P:606:MET:HE3	1.95	0.48
1:R:553:LYS:HG2	1:U:466:TYR:CD1	2.48	0.48
1:S:321:GLN:NE2	1:d:340:SER:HA	2.29	0.48
1:S:342:ILE:HD12	1:S:650:ILE:HD11	1.96	0.48
1:V:553:LYS:HG2	1:X:466:TYR:CD1	2.48	0.48
1:X:321:GLN:NE2	1:Y:340:SER:HA	2.28	0.48
1:X:603:LEU:HB2	1:X:606:MET:HE3	1.95	0.48
1:b:260:GLN:OE1	1:b:275:PHE:HE1	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:260:GLN:OE1	1:e:275:PHE:HE1	1.94	0.48
1:f:342:ILE:HD12	1:f:650:ILE:HD11	1.96	0.48
1:f:466:TYR:CD1	1:h:553:LYS:HG2	2.48	0.48
1:h:345:PHE:CE1	1:h:400:PHE:HD2	2.31	0.48
1:h:560:LEU:HB3	1:h:727:PRO:HD3	1.94	0.48
1:j:321:GLN:NE2	1:x:340:SER:HA	2.28	0.48
1:j:603:LEU:HB2	1:j:606:MET:HE3	1.95	0.48
1:l:340:SER:HA	1:n:321:GLN:NE2	2.29	0.48
1:l:345:PHE:CE1	1:l:400:PHE:HD2	2.31	0.48
1:n:340:SER:HA	1:r:321:GLN:NE2	2.29	0.48
1:n:345:PHE:CE1	1:n:400:PHE:HD2	2.31	0.48
1:o:603:LEU:HB2	1:o:606:MET:HE3	1.95	0.48
1:r:342:ILE:HD12	1:r:650:ILE:HD11	1.96	0.48
1:t:340:SER:HA	1:y:321:GLN:NE2	2.29	0.48
1:t:553:LYS:HG2	1:v:466:TYR:CD1	2.48	0.48
1:u:345:PHE:CE1	1:u:400:PHE:HD2	2.31	0.48
1:u:603:LEU:HB2	1:u:606:MET:HE3	1.95	0.48
1:v:560:LEU:HB3	1:v:727:PRO:HD3	1.94	0.48
1:w:511:TYR:HD2	1:w:520:VAL:HG22	1.77	0.48
1:y:405:LEU:HD21	1:y:411:PHE:HB2	1.94	0.48
1:z:345:PHE:CE1	1:z:400:PHE:HD2	2.31	0.48
1:2:345:PHE:CE1	1:2:400:PHE:HD2	2.31	0.48
1:B:511:TYR:HD2	1:B:520:VAL:HG22	1.78	0.48
1:F:405:LEU:HD21	1:F:411:PHE:HB2	1.94	0.48
1:H:321:GLN:NE2	1:I:340:SER:HA	2.28	0.48
1:I:603:LEU:HB2	1:I:606:MET:HE3	1.95	0.48
1:L:445:TYR:CE1	1:L:467:GLN:HG3	2.47	0.48
1:M:553:LYS:HG2	1:b:466:TYR:CD1	2.48	0.48
1:O:342:ILE:HD12	1:O:650:ILE:HD11	1.96	0.48
1:R:603:LEU:HB2	1:R:606:MET:HE3	1.95	0.48
1:Y:342:ILE:HD12	1:Y:650:ILE:HD11	1.95	0.48
1:Y:622:LYS:HB2	1:Y:644:PRO:HG3	1.94	0.48
1:Z:342:ILE:HD12	1:Z:650:ILE:HD11	1.96	0.48
1:a:560:LEU:HB3	1:a:727:PRO:HD3	1.94	0.48
1:b:342:ILE:HD12	1:b:650:ILE:HD11	1.96	0.48
1:d:342:ILE:HD12	1:d:650:ILE:HD11	1.96	0.48
1:d:345:PHE:CE1	1:d:400:PHE:HD2	2.31	0.48
1:f:340:SER:HA	1:z:321:GLN:NE2	2.29	0.48
1:f:345:PHE:CE1	1:f:400:PHE:HD2	2.31	0.48
1:g:342:ILE:HD12	1:g:650:ILE:HD11	1.96	0.48
1:l:445:TYR:CE1	1:l:467:GLN:HG3	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:321:GLN:NE2	1:7:340:SER:HA	2.28	0.48
1:o:466:TYR:CD1	1:p:553:LYS:HG2	2.48	0.48
1:q:466:TYR:CD1	1:r:553:LYS:HG2	2.48	0.48
1:q:553:LYS:HG2	1:s:466:TYR:CD1	2.48	0.48
1:r:622:LYS:HB2	1:r:644:PRO:HG3	1.94	0.48
1:z:340:SER:HA	1:4:321:GLN:NE2	2.28	0.48
1:2:342:ILE:HD12	1:2:650:ILE:HD11	1.96	0.48
1:5:340:SER:HA	1:8:321:GLN:NE2	2.28	0.48
1:7:342:ILE:HD12	1:7:650:ILE:HD11	1.95	0.48
1:7:622:LYS:HB2	1:7:644:PRO:HG3	1.94	0.48
1:A:345:PHE:CE1	1:A:400:PHE:HD2	2.31	0.48
1:B:553:LYS:HG2	1:L:466:TYR:CD1	2.48	0.48
1:C:342:ILE:HD12	1:C:650:ILE:HD11	1.96	0.48
1:H:260:GLN:OE1	1:H:275:PHE:HE1	1.94	0.48
1:L:485:CYS:HG	1:L:578:TYR:HB2	1.79	0.48
1:O:340:SER:HA	1:d:321:GLN:NE2	2.29	0.48
1:Q:342:ILE:HD12	1:Q:650:ILE:HD11	1.96	0.48
1:R:342:ILE:HD12	1:R:650:ILE:HD11	1.96	0.48
1:R:466:TYR:CD1	1:S:553:LYS:HG2	2.48	0.48
1:T:340:SER:HA	1:i:321:GLN:NE2	2.29	0.48
1:X:511:TYR:HD2	1:X:520:VAL:HG22	1.77	0.48
1:a:466:TYR:CD1	1:8:553:LYS:HG2	2.48	0.48
1:b:345:PHE:CE1	1:b:400:PHE:HD2	2.31	0.48
1:g:340:SER:HA	1:k:321:GLN:NE2	2.28	0.48
1:k:560:LEU:HB3	1:k:727:PRO:HD3	1.94	0.48
1:l:342:ILE:HD12	1:l:650:ILE:HD11	1.96	0.48
1:n:342:ILE:HD12	1:n:650:ILE:HD11	1.96	0.48
1:q:342:ILE:HD12	1:q:650:ILE:HD11	1.96	0.48
1:v:345:PHE:CE1	1:v:400:PHE:HD2	2.31	0.48
1:x:342:ILE:HD12	1:x:650:ILE:HD11	1.96	0.48
1:z:466:TYR:CD1	1:1:553:LYS:HG2	2.48	0.48
1:z:530:LYS:HG2	1:z:531:ASP:N	2.23	0.48
1:1:466:TYR:CD1	1:2:553:LYS:HG2	2.48	0.48
1:8:342:ILE:HD12	1:8:650:ILE:HD11	1.96	0.48
1:B:342:ILE:HD12	1:B:650:ILE:HD11	1.96	0.48
1:D:560:LEU:HB3	1:D:727:PRO:HD3	1.93	0.48
1:M:560:LEU:HB3	1:M:727:PRO:HD3	1.94	0.48
1:T:321:GLN:NE2	1:U:340:SER:HA	2.28	0.48
1:X:342:ILE:HD12	1:X:650:ILE:HD11	1.96	0.48
1:Z:553:LYS:HG2	1:3:466:TYR:CD1	2.48	0.48
1:e:321:GLN:NE2	1:h:340:SER:HA	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:260:GLN:OE1	1:g:275:PHE:HE1	1.94	0.48
1:g:321:GLN:NE2	1:1:340:SER:HA	2.28	0.48
1:m:321:GLN:NE2	1:s:340:SER:HA	2.28	0.48
1:o:511:TYR:HD2	1:o:520:VAL:HG22	1.77	0.48
1:u:340:SER:HA	1:5:321:GLN:NE2	2.28	0.48
1:u:622:LYS:HB2	1:u:644:PRO:HG3	1.94	0.48
1:v:260:GLN:OE1	1:v:275:PHE:HE1	1.94	0.48
1:x:530:LYS:HG2	1:x:531:ASP:N	2.23	0.48
1:1:342:ILE:HD12	1:1:650:ILE:HD11	1.96	0.48
1:1:511:TYR:HD2	1:1:520:VAL:HG22	1.78	0.48
1:3:560:LEU:HB3	1:3:727:PRO:HD3	1.94	0.48
1:4:603:LEU:HB2	1:4:606:MET:HE3	1.95	0.48
1:B:340:SER:HA	1:C:321:GLN:NE2	2.28	0.48
1:D:532:ASP:OD1	1:N:384:ASN:ND2	2.43	0.48
1:H:466:TYR:CD1	1:W:553:LYS:HG2	2.48	0.48
1:K:603:LEU:HB2	1:K:606:MET:HE3	1.95	0.48
1:M:340:SER:HA	1:c:321:GLN:NE2	2.29	0.48
1:O:622:LYS:HB2	1:O:644:PRO:HG3	1.94	0.48
1:P:345:PHE:CE1	1:P:400:PHE:HD2	2.31	0.48
1:R:345:PHE:CE1	1:R:400:PHE:HD2	2.31	0.48
1:Z:603:LEU:HB2	1:Z:606:MET:HE3	1.95	0.48
1:g:553:LYS:HG2	1:h:466:TYR:CD1	2.48	0.48
1:j:345:PHE:CE1	1:j:400:PHE:HD2	2.31	0.48
1:l:260:GLN:OE1	1:l:275:PHE:HE1	1.94	0.48
1:l:622:LYS:HB2	1:l:644:PRO:HG3	1.94	0.48
1:m:345:PHE:CE1	1:m:400:PHE:HD2	2.31	0.48
1:o:532:ASP:OD1	1:p:384:ASN:ND2	2.42	0.48
1:p:321:GLN:NE2	1:q:340:SER:HA	2.28	0.48
1:s:603:LEU:HB2	1:s:606:MET:HE3	1.95	0.48
1:v:340:SER:HA	1:1:321:GLN:NE2	2.29	0.48
1:w:466:TYR:CD1	1:x:553:LYS:HG2	2.48	0.48
1:A:260:GLN:OE1	1:A:275:PHE:HE1	1.94	0.48
1:A:603:LEU:HB2	1:A:606:MET:HE3	1.95	0.48
1:C:553:LYS:HG2	1:M:466:TYR:CD1	2.48	0.48
1:D:271:ASP:O	1:P:434:ARG:NH2	2.45	0.48
1:G:511:TYR:HD2	1:G:520:VAL:HG22	1.78	0.48
1:I:342:ILE:HD12	1:I:650:ILE:HD11	1.96	0.48
1:I:622:LYS:HB2	1:I:644:PRO:HG3	1.94	0.48
1:J:321:GLN:NE2	1:a:340:SER:HA	2.28	0.48
1:K:384:ASN:ND2	1:8:532:ASP:OD1	2.43	0.48
1:O:532:ASP:OD1	1:m:384:ASN:ND2	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:226:SER:HG	1:Q:319:ASN:H	1.56	0.48
1:Q:622:LYS:HB2	1:Q:644:PRO:HG3	1.94	0.48
1:R:340:SER:HA	1:V:321:GLN:NE2	2.28	0.48
1:S:466:TYR:CD1	1:U:553:LYS:HG2	2.48	0.48
1:T:345:PHE:CE1	1:T:400:PHE:HD2	2.31	0.48
1:Z:345:PHE:CE1	1:Z:400:PHE:HD2	2.31	0.48
1:Z:532:ASP:OD1	1:4:384:ASN:ND2	2.43	0.48
1:e:511:TYR:HD2	1:e:520:VAL:HG22	1.77	0.48
1:m:511:TYR:HD2	1:m:520:VAL:HG22	1.78	0.48
1:o:342:ILE:HD12	1:o:650:ILE:HD11	1.96	0.48
1:q:345:PHE:CE1	1:q:400:PHE:HD2	2.31	0.48
1:r:340:SER:HA	1:x:321:GLN:NE2	2.29	0.48
1:r:466:TYR:CD1	1:s:553:LYS:HG2	2.48	0.48
1:s:511:TYR:HD2	1:s:520:VAL:HG22	1.78	0.48
1:t:511:TYR:HD2	1:t:520:VAL:HG22	1.78	0.48
1:u:342:ILE:HD12	1:u:650:ILE:HD11	1.96	0.48
1:v:603:LEU:HB2	1:v:606:MET:HE3	1.95	0.48
1:2:321:GLN:NE2	1:3:340:SER:HA	2.28	0.48
1:8:603:LEU:HB2	1:8:606:MET:HE3	1.95	0.48
1:E:466:TYR:CD1	1:Q:553:LYS:HG2	2.48	0.48
1:M:342:ILE:HD12	1:M:650:ILE:HD11	1.96	0.48
1:Q:321:GLN:NE2	1:S:340:SER:HA	2.29	0.48
1:T:384:ASN:ND2	1:l:532:ASP:OD1	2.43	0.48
1:U:603:LEU:HB2	1:U:606:MET:HE3	1.95	0.48
1:c:342:ILE:HD12	1:c:650:ILE:HD11	1.96	0.48
1:h:342:ILE:HD12	1:h:650:ILE:HD11	1.96	0.48
1:k:340:SER:HA	1:w:321:GLN:NE2	2.28	0.48
1:m:466:TYR:CD1	1:n:553:LYS:HG2	2.48	0.48
1:w:345:PHE:CE1	1:w:400:PHE:HD2	2.31	0.48
1:x:226:SER:HG	1:x:319:ASN:H	1.56	0.48
1:x:466:TYR:CD1	1:y:553:LYS:HG2	2.48	0.48
1:z:532:ASP:OD1	1:1:384:ASN:ND2	2.43	0.48
1:5:466:TYR:CD1	1:6:553:LYS:HG2	2.48	0.48
1:E:345:PHE:CE1	1:E:400:PHE:HD2	2.31	0.47
1:F:553:LYS:HG2	1:Q:466:TYR:CD1	2.48	0.47
1:N:345:PHE:CE1	1:N:400:PHE:HD2	2.31	0.47
1:T:466:TYR:CD1	1:d:553:LYS:HG2	2.48	0.47
1:T:511:TYR:HD2	1:T:520:VAL:HG22	1.78	0.47
1:U:511:TYR:HD2	1:U:520:VAL:HG22	1.78	0.47
1:V:384:ASN:ND2	1:X:532:ASP:OD1	2.42	0.47
1:X:384:ASN:ND2	1:e:532:ASP:OD1	2.42	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:511:TYR:HD2	1:c:520:VAL:HG22	1.77	0.47
1:e:226:SER:HG	1:e:319:ASN:H	1.55	0.47
1:e:342:ILE:HD12	1:e:650:ILE:HD11	1.96	0.47
1:e:345:PHE:CE1	1:e:400:PHE:HD2	2.31	0.47
1:g:384:ASN:ND2	1:h:532:ASP:OD1	2.43	0.47
1:p:230:HIS:O	1:p:245:THR:OG1	2.19	0.47
1:s:345:PHE:CE1	1:s:400:PHE:HD2	2.31	0.47
1:8:345:PHE:CE1	1:8:400:PHE:HD2	2.31	0.47
1:D:345:PHE:CE1	1:D:400:PHE:HD2	2.31	0.47
1:E:603:LEU:HB2	1:E:606:MET:HE3	1.95	0.47
1:E:703:THR:HG23	1:P:701:GLN:H	1.78	0.47
1:K:553:LYS:HG2	1:8:466:TYR:CD1	2.48	0.47
1:T:260:GLN:OE1	1:T:275:PHE:HE1	1.94	0.47
1:U:345:PHE:CE1	1:U:400:PHE:HD2	2.31	0.47
1:Z:466:TYR:CD1	1:4:553:LYS:HG2	2.48	0.47
1:c:226:SER:HG	1:c:319:ASN:H	1.55	0.47
1:c:345:PHE:CE1	1:c:400:PHE:HD2	2.31	0.47
1:c:532:ASP:OD1	1:o:384:ASN:ND2	2.43	0.47
1:i:342:ILE:HD12	1:i:650:ILE:HD11	1.96	0.47
1:i:345:PHE:CE1	1:i:400:PHE:HD2	2.31	0.47
1:q:321:GLN:NE2	1:y:340:SER:HA	2.29	0.47
1:w:603:LEU:HB2	1:w:606:MET:HE3	1.95	0.47
1:x:622:LYS:HB2	1:x:644:PRO:HG3	1.94	0.47
1:A:532:ASP:OD1	1:G:384:ASN:ND2	2.42	0.47
1:B:384:ASN:ND2	1:L:532:ASP:OD1	2.43	0.47
1:C:384:ASN:ND2	1:M:532:ASP:OD1	2.42	0.47
1:U:321:GLN:NE2	1:e:340:SER:HA	2.29	0.47
1:i:384:ASN:ND2	1:k:532:ASP:OD1	2.43	0.47
1:k:345:PHE:CE1	1:k:400:PHE:HD2	2.31	0.47
1:C:603:LEU:HB2	1:C:606:MET:HE3	1.95	0.47
1:E:530:LYS:HG2	1:E:531:ASP:N	2.23	0.47
1:F:340:SER:HA	1:R:321:GLN:NE2	2.29	0.47
1:N:342:ILE:HD12	1:N:650:ILE:HD11	1.96	0.47
1:P:367:PHE:CE2	1:P:369:ALA:HB3	2.50	0.47
1:c:340:SER:HA	1:s:321:GLN:NE2	2.29	0.47
1:c:367:PHE:CE2	1:c:369:ALA:HB3	2.50	0.47
1:e:367:PHE:CE2	1:e:369:ALA:HB3	2.50	0.47
1:j:367:PHE:CE2	1:j:369:ALA:HB3	2.50	0.47
1:m:260:GLN:OE1	1:m:275:PHE:HE1	1.94	0.47
1:t:384:ASN:ND2	1:v:532:ASP:OD1	2.43	0.47
1:w:530:LYS:HG2	1:w:531:ASP:N	2.23	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:485:CYS:HG	1:z:578:TYR:HB2	1.80	0.47
1:H:367:PHE:CE2	1:H:369:ALA:HB3	2.50	0.47
1:L:367:PHE:CE2	1:L:369:ALA:HB3	2.50	0.47
1:O:226:SER:HG	1:O:319:ASN:H	1.54	0.47
1:R:367:PHE:CE2	1:R:369:ALA:HB3	2.50	0.47
1:V:532:ASP:OD1	1:e:384:ASN:ND2	2.43	0.47
1:c:384:ASN:ND2	1:p:532:ASP:OD1	2.43	0.47
1:v:321:GLN:NE2	1:w:340:SER:HA	2.29	0.47
1:z:367:PHE:CE2	1:z:369:ALA:HB3	2.50	0.47
1:D:656:PRO:HD2	1:E:677:THR:HG21	1.97	0.47
1:G:342:ILE:HD12	1:G:650:ILE:HD11	1.95	0.47
1:S:530:LYS:HG2	1:S:531:ASP:N	2.23	0.47
1:U:367:PHE:CE2	1:U:369:ALA:HB3	2.50	0.47
1:V:230:HIS:O	1:V:245:THR:OG1	2.19	0.47
1:Y:367:PHE:CE2	1:Y:369:ALA:HB3	2.50	0.47
1:d:367:PHE:CE2	1:d:369:ALA:HB3	2.50	0.47
1:g:603:LEU:HB2	1:g:606:MET:HE3	1.95	0.47
1:n:367:PHE:CE2	1:n:369:ALA:HB3	2.50	0.47
1:q:367:PHE:CE2	1:q:369:ALA:HB3	2.50	0.47
1:v:367:PHE:CE2	1:v:369:ALA:HB3	2.50	0.47
1:7:367:PHE:CE2	1:7:369:ALA:HB3	2.50	0.47
1:A:321:GLN:NE2	1:E:340:SER:HA	2.29	0.47
1:A:342:ILE:HD12	1:A:650:ILE:HD11	1.96	0.47
1:A:367:PHE:CE2	1:A:369:ALA:HB3	2.50	0.47
1:A:439:LEU:HD21	1:G:278:SER:HB2	1.96	0.47
1:A:699:GLU:HG2	1:F:296:ARG:NE	2.30	0.47
1:C:582:SER:HA	1:C:594:THR:HG22	1.97	0.47
1:D:466:TYR:CD1	1:N:553:LYS:HG2	2.49	0.47
1:E:367:PHE:CE2	1:E:369:ALA:HB3	2.50	0.47
1:K:342:ILE:HD12	1:K:650:ILE:HD11	1.96	0.47
1:K:367:PHE:CE2	1:K:369:ALA:HB3	2.50	0.47
1:M:677:THR:HG21	1:N:656:PRO:HD2	1.97	0.47
1:N:367:PHE:CE2	1:N:369:ALA:HB3	2.50	0.47
1:N:582:SER:HA	1:N:594:THR:HG22	1.97	0.47
1:P:342:ILE:HD12	1:P:650:ILE:HD11	1.96	0.47
1:Q:699:GLU:HG2	1:R:296:ARG:NE	2.30	0.47
1:S:367:PHE:CE2	1:S:369:ALA:HB3	2.50	0.47
1:Y:296:ARG:NE	1:Z:699:GLU:HG2	2.30	0.47
1:Z:340:SER:HA	1:a:321:GLN:NE2	2.29	0.47
1:a:367:PHE:CE2	1:a:369:ALA:HB3	2.50	0.47
1:b:582:SER:HA	1:b:594:THR:HG22	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:582:SER:HA	1:f:594:THR:HG22	1.97	0.47
1:g:582:SER:HA	1:g:594:THR:HG22	1.97	0.47
1:h:699:GLU:HG2	1:k:296:ARG:NE	2.30	0.47
1:i:296:ARG:NE	1:l:699:GLU:HG2	2.30	0.47
1:i:553:LYS:HG2	1:k:466:TYR:CD1	2.49	0.47
1:i:582:SER:HA	1:i:594:THR:HG22	1.97	0.47
1:j:296:ARG:NE	1:w:699:GLU:HG2	2.30	0.47
1:j:342:ILE:HD12	1:j:650:ILE:HD11	1.96	0.47
1:k:342:ILE:HD12	1:k:650:ILE:HD11	1.95	0.47
1:m:367:PHE:CE2	1:m:369:ALA:HB3	2.50	0.47
1:p:582:SER:HA	1:p:594:THR:HG22	1.97	0.47
1:q:296:ARG:NE	1:x:699:GLU:HG2	2.30	0.47
1:r:367:PHE:CE2	1:r:369:ALA:HB3	2.50	0.47
1:r:530:LYS:HG2	1:r:531:ASP:N	2.23	0.47
1:s:342:ILE:HD12	1:s:650:ILE:HD11	1.96	0.47
1:s:367:PHE:CE2	1:s:369:ALA:HB3	2.50	0.47
1:t:342:ILE:HD12	1:t:650:ILE:HD11	1.95	0.47
1:v:342:ILE:HD12	1:v:650:ILE:HD11	1.96	0.47
1:w:367:PHE:CE2	1:w:369:ALA:HB3	2.50	0.47
1:z:603:LEU:HB2	1:z:606:MET:HE3	1.95	0.47
1:3:321:GLN:NE2	1:8:340:SER:HA	2.29	0.47
1:3:367:PHE:CE2	1:3:369:ALA:HB3	2.50	0.47
1:4:342:ILE:HD12	1:4:650:ILE:HD11	1.96	0.47
1:4:367:PHE:CE2	1:4:369:ALA:HB3	2.50	0.47
1:5:367:PHE:CE2	1:5:369:ALA:HB3	2.50	0.47
1:7:296:ARG:NE	1:8:699:GLU:HG2	2.30	0.47
1:7:582:SER:HA	1:7:594:THR:HG22	1.97	0.47
1:B:582:SER:HA	1:B:594:THR:HG22	1.97	0.47
1:C:367:PHE:CE2	1:C:369:ALA:HB3	2.50	0.47
1:D:342:ILE:HD12	1:D:650:ILE:HD11	1.96	0.47
1:D:367:PHE:CE2	1:D:369:ALA:HB3	2.50	0.47
1:L:342:ILE:HD12	1:L:650:ILE:HD11	1.96	0.47
1:L:603:LEU:HB2	1:L:606:MET:HE3	1.95	0.47
1:R:278:SER:HB2	1:U:439:LEU:HD21	1.97	0.47
1:T:367:PHE:CE2	1:T:369:ALA:HB3	2.50	0.47
1:V:582:SER:HA	1:V:594:THR:HG22	1.97	0.47
1:Y:582:SER:HA	1:Y:594:THR:HG22	1.97	0.47
1:Z:367:PHE:CE2	1:Z:369:ALA:HB3	2.50	0.47
1:a:439:LEU:HD21	1:8:278:SER:HB2	1.97	0.47
1:d:603:LEU:HB2	1:d:606:MET:HE3	1.95	0.47
1:k:367:PHE:CE2	1:k:369:ALA:HB3	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:699:GLU:HG2	1:r:296:ARG:NE	2.30	0.47
1:o:703:THR:HG23	1:6:701:GLN:H	1.80	0.47
1:q:278:SER:HB2	1:s:439:LEU:HD21	1.97	0.47
1:v:699:GLU:HG2	1:y:296:ARG:NE	2.30	0.47
1:1:582:SER:HA	1:1:594:THR:HG22	1.97	0.47
1:B:296:ARG:NE	1:I:699:GLU:HG2	2.30	0.47
1:D:502:ASN:HA	1:P:450:THR:OG1	2.14	0.47
1:E:342:ILE:HD12	1:E:650:ILE:HD11	1.95	0.47
1:H:384:ASN:ND2	1:Y:532:ASP:OD1	2.43	0.47
1:U:342:ILE:HD12	1:U:650:ILE:HD11	1.96	0.47
1:W:532:ASP:OD1	1:Y:384:ASN:ND2	2.43	0.47
1:W:701:GLN:H	1:X:703:THR:HG23	1.80	0.47
1:Z:278:SER:HB2	1:3:439:LEU:HD21	1.97	0.47
1:d:582:SER:HA	1:d:594:THR:HG22	1.97	0.47
1:g:367:PHE:CE2	1:g:369:ALA:HB3	2.50	0.47
1:h:677:THR:HG21	1:i:656:PRO:HD2	1.97	0.47
1:i:367:PHE:CE2	1:i:369:ALA:HB3	2.50	0.47
1:j:439:LEU:HD21	1:k:278:SER:HB2	1.97	0.47
1:n:603:LEU:HB2	1:n:606:MET:HE3	1.95	0.47
1:o:699:GLU:HG2	1:6:296:ARG:NE	2.30	0.47
1:u:699:GLU:HG2	1:1:296:ARG:NE	2.30	0.47
1:w:342:ILE:HD12	1:w:650:ILE:HD11	1.96	0.47
1:z:342:ILE:HD12	1:z:650:ILE:HD11	1.96	0.47
1:2:708:LYS:HD2	1:3:387:GLN:OE1	2.15	0.47
1:8:367:PHE:CE2	1:8:369:ALA:HB3	2.50	0.47
1:A:528:THR:HG23	1:A:564:GLU:H	1.81	0.47
1:D:296:ARG:NE	1:M:699:GLU:HG2	2.30	0.47
1:G:367:PHE:CE2	1:G:369:ALA:HB3	2.50	0.47
1:H:677:THR:HG21	1:I:656:PRO:HD2	1.97	0.47
1:J:708:LYS:HD2	1:a:387:GLN:OE1	2.15	0.47
1:M:367:PHE:CE2	1:M:369:ALA:HB3	2.50	0.47
1:N:296:ARG:NE	1:O:699:GLU:HG2	2.30	0.47
1:S:296:ARG:NE	1:T:699:GLU:HG2	2.30	0.47
1:S:439:LEU:HD21	1:U:278:SER:HB2	1.97	0.47
1:T:342:ILE:HD12	1:T:650:ILE:HD11	1.96	0.47
1:T:387:GLN:OE1	1:i:708:LYS:HD2	2.15	0.47
1:W:296:ARG:NE	1:X:699:GLU:HG2	2.30	0.47
1:W:367:PHE:CE2	1:W:369:ALA:HB3	2.50	0.47
1:Y:511:TYR:HD2	1:Y:520:VAL:HG22	1.78	0.47
1:Z:582:SER:HA	1:Z:594:THR:HG22	1.97	0.47
1:b:296:ARG:NE	1:c:699:GLU:HG2	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:699:GLU:HG2	1:f:296:ARG:NE	2.30	0.47
1:h:367:PHE:CE2	1:h:369:ALA:HB3	2.50	0.47
1:i:503:PHE:CZ	1:k:450:THR:HG21	2.50	0.47
1:r:439:LEU:HD21	1:s:278:SER:HB2	1.97	0.47
1:v:296:ARG:NE	1:y:699:GLU:HG2	2.30	0.47
1:v:528:THR:HG23	1:v:564:GLU:H	1.81	0.47
1:5:384:ASN:ND2	1:7:532:ASP:OD1	2.43	0.47
1:7:511:TYR:HD2	1:7:520:VAL:HG22	1.78	0.47
1:8:485:CYS:HG	1:8:578:TYR:HB2	1.77	0.47
1:A:656:PRO:HD2	1:B:677:THR:HG21	1.98	0.46
1:G:528:THR:HG23	1:G:564:GLU:H	1.80	0.46
1:K:503:PHE:CZ	1:8:450:THR:HG21	2.51	0.46
1:N:530:LYS:HG2	1:N:531:ASP:N	2.23	0.46
1:U:582:SER:HA	1:U:594:THR:HG22	1.97	0.46
1:a:296:ARG:NE	1:3:699:GLU:HG2	2.30	0.46
1:d:296:ARG:NE	1:n:699:GLU:HG2	2.30	0.46
1:m:342:ILE:HD12	1:m:650:ILE:HD11	1.96	0.46
1:n:582:SER:HA	1:n:594:THR:HG22	1.97	0.46
1:q:699:GLU:HG2	1:x:296:ARG:NE	2.30	0.46
1:s:582:SER:HA	1:s:594:THR:HG22	1.97	0.46
1:t:367:PHE:CE2	1:t:369:ALA:HB3	2.50	0.46
1:t:528:THR:HG23	1:t:564:GLU:H	1.80	0.46
1:u:439:LEU:HD21	1:v:278:SER:HB2	1.97	0.46
1:u:656:PRO:HD2	1:5:677:THR:HG21	1.97	0.46
1:w:384:ASN:ND2	1:y:532:ASP:OD1	2.43	0.46
1:3:278:SER:HB2	1:4:439:LEU:HD21	1.97	0.46
1:6:367:PHE:CE2	1:6:369:ALA:HB3	2.50	0.46
1:8:582:SER:HA	1:8:594:THR:HG22	1.97	0.46
1:D:450:THR:HG21	1:N:503:PHE:CZ	2.50	0.46
1:E:450:THR:HG21	1:Q:503:PHE:CZ	2.51	0.46
1:F:236:LEU:HD12	1:F:236:LEU:O	2.16	0.46
1:H:236:LEU:HD12	1:H:236:LEU:O	2.16	0.46
1:K:439:LEU:HD21	1:a:278:SER:HB2	1.97	0.46
1:N:528:THR:HG23	1:N:564:GLU:H	1.81	0.46
1:O:367:PHE:CE2	1:O:369:ALA:HB3	2.50	0.46
1:V:656:PRO:HD2	1:W:677:THR:HG21	1.97	0.46
1:X:367:PHE:CE2	1:X:369:ALA:HB3	2.50	0.46
1:Z:450:THR:HG21	1:4:503:PHE:CZ	2.51	0.46
1:a:582:SER:HA	1:a:594:THR:HG22	1.97	0.46
1:a:699:GLU:HG2	1:3:296:ARG:NE	2.30	0.46
1:c:582:SER:HA	1:c:594:THR:HG22	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:699:GLU:HG2	1:n:296:ARG:NE	2.30	0.46
1:g:503:PHE:CZ	1:h:450:THR:HG21	2.50	0.46
1:i:528:THR:HG23	1:i:564:GLU:H	1.81	0.46
1:i:530:LYS:HG2	1:i:531:ASP:N	2.23	0.46
1:k:656:PRO:HD2	1:w:677:THR:HG21	1.98	0.46
1:p:342:ILE:HD12	1:p:650:ILE:HD11	1.96	0.46
1:u:236:LEU:O	1:u:236:LEU:HD12	2.16	0.46
1:w:503:PHE:CZ	1:y:450:THR:HG21	2.51	0.46
1:x:236:LEU:O	1:x:236:LEU:HD12	2.16	0.46
1:y:236:LEU:HD12	1:y:236:LEU:O	2.16	0.46
1:1:367:PHE:CE2	1:1:369:ALA:HB3	2.50	0.46
1:5:236:LEU:HD12	1:5:236:LEU:O	2.16	0.46
1:5:450:THR:HG21	1:6:503:PHE:CZ	2.51	0.46
1:6:532:ASP:OD1	1:7:384:ASN:ND2	2.43	0.46
1:A:296:ARG:NE	1:F:699:GLU:HG2	2.30	0.46
1:B:367:PHE:CE2	1:B:369:ALA:HB3	2.50	0.46
1:C:296:ARG:NE	1:L:699:GLU:HG2	2.30	0.46
1:C:503:PHE:CZ	1:M:450:THR:HG21	2.51	0.46
1:D:487:ARG:O	1:P:581:VAL:HG23	2.15	0.46
1:E:236:LEU:HD12	1:E:236:LEU:O	2.16	0.46
1:E:503:PHE:CZ	1:F:450:THR:HG21	2.51	0.46
1:H:450:THR:HG21	1:W:503:PHE:CZ	2.51	0.46
1:I:236:LEU:HD12	1:I:236:LEU:O	2.16	0.46
1:J:236:LEU:O	1:J:236:LEU:HD12	2.16	0.46
1:K:528:THR:HG23	1:K:564:GLU:H	1.81	0.46
1:Q:236:LEU:HD12	1:Q:236:LEU:O	2.16	0.46
1:Q:296:ARG:NE	1:R:699:GLU:HG2	2.31	0.46
1:U:236:LEU:HD12	1:U:236:LEU:O	2.16	0.46
1:V:236:LEU:HD12	1:V:236:LEU:O	2.16	0.46
1:V:342:ILE:HD12	1:V:650:ILE:HD11	1.96	0.46
1:W:236:LEU:HD12	1:W:236:LEU:O	2.16	0.46
1:X:528:THR:HG23	1:X:564:GLU:H	1.81	0.46
1:Z:485:CYS:HG	1:Z:578:TYR:HB2	1.77	0.46
1:d:528:THR:HG23	1:d:564:GLU:H	1.81	0.46
1:e:582:SER:HA	1:e:594:THR:HG22	1.97	0.46
1:g:656:PRO:HD2	1:k:677:THR:HG21	1.97	0.46
1:h:679:GLN:NE2	1:i:653:THR:HG21	2.30	0.46
1:l:367:PHE:CE2	1:l:369:ALA:HB3	2.50	0.46
1:n:528:THR:HG23	1:n:564:GLU:H	1.81	0.46
1:o:367:PHE:CE2	1:o:369:ALA:HB3	2.50	0.46
1:o:528:THR:HG23	1:o:564:GLU:H	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:236:LEU:HD12	1:p:236:LEU:O	2.16	0.46
1:p:656:PRO:HD2	1:6:677:THR:HG21	1.97	0.46
1:s:236:LEU:HD12	1:s:236:LEU:O	2.16	0.46
1:w:450:THR:HG21	1:x:503:PHE:CZ	2.51	0.46
1:2:236:LEU:HD12	1:2:236:LEU:O	2.16	0.46
1:3:582:SER:HA	1:3:594:THR:HG22	1.97	0.46
1:4:528:THR:HG23	1:4:564:GLU:H	1.81	0.46
1:6:236:LEU:HD12	1:6:236:LEU:O	2.16	0.46
1:E:528:THR:HG23	1:E:564:GLU:H	1.81	0.46
1:G:450:THR:HG21	1:I:503:PHE:CZ	2.51	0.46
1:H:656:PRO:HD2	1:Z:677:THR:HG21	1.97	0.46
1:I:367:PHE:CE2	1:I:369:ALA:HB3	2.50	0.46
1:J:367:PHE:CE2	1:J:369:ALA:HB3	2.50	0.46
1:J:699:GLU:HG2	1:K:296:ARG:NE	2.31	0.46
1:L:582:SER:HA	1:L:594:THR:HG22	1.97	0.46
1:N:677:THR:HG21	1:m:656:PRO:HD2	1.98	0.46
1:R:450:THR:HG21	1:S:503:PHE:CZ	2.51	0.46
1:U:699:GLU:HG2	1:V:296:ARG:NE	2.31	0.46
1:V:367:PHE:CE2	1:V:369:ALA:HB3	2.50	0.46
1:X:236:LEU:HD12	1:X:236:LEU:O	2.16	0.46
1:Y:528:THR:HG23	1:Y:564:GLU:H	1.81	0.46
1:a:236:LEU:HD12	1:a:236:LEU:O	2.16	0.46
1:a:528:THR:HG23	1:a:564:GLU:H	1.81	0.46
1:e:296:ARG:NE	1:f:699:GLU:HG2	2.30	0.46
1:f:367:PHE:CE2	1:f:369:ALA:HB3	2.50	0.46
1:g:296:ARG:NE	1:z:699:GLU:HG2	2.31	0.46
1:j:708:LYS:HD2	1:x:387:GLN:OE1	2.15	0.46
1:q:450:THR:HG21	1:r:503:PHE:CZ	2.51	0.46
1:t:278:SER:HB2	1:v:439:LEU:HD21	1.97	0.46
1:t:450:THR:HG21	1:u:503:PHE:CZ	2.51	0.46
1:u:367:PHE:CE2	1:u:369:ALA:HB3	2.50	0.46
1:w:236:LEU:HD12	1:w:236:LEU:O	2.16	0.46
1:w:528:THR:HG23	1:w:564:GLU:H	1.81	0.46
1:2:699:GLU:HG2	1:4:296:ARG:NE	2.31	0.46
1:3:236:LEU:HD12	1:3:236:LEU:O	2.16	0.46
1:C:450:THR:HG21	1:b:503:PHE:CZ	2.51	0.46
1:E:384:ASN:ND2	1:F:532:ASP:OD1	2.43	0.46
1:F:582:SER:HA	1:F:594:THR:HG22	1.97	0.46
1:H:708:LYS:HD2	1:I:387:GLN:OE1	2.16	0.46
1:I:343:GLN:O	1:I:650:ILE:HA	2.16	0.46
1:J:450:THR:HG21	1:L:503:PHE:CZ	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:236:LEU:HD12	1:K:236:LEU:O	2.16	0.46
1:M:656:PRO:HD2	1:c:677:THR:HG21	1.98	0.46
1:O:343:GLN:O	1:O:650:ILE:HA	2.16	0.46
1:R:343:GLN:O	1:R:650:ILE:HA	2.16	0.46
1:S:450:THR:HG21	1:U:503:PHE:CZ	2.51	0.46
1:U:528:THR:HG23	1:U:564:GLU:H	1.81	0.46
1:V:450:THR:HG21	1:e:503:PHE:CZ	2.51	0.46
1:V:503:PHE:CZ	1:X:450:THR:HG21	2.51	0.46
1:W:528:THR:HG23	1:W:564:GLU:H	1.80	0.46
1:W:699:GLU:HG2	1:X:296:ARG:NE	2.31	0.46
1:X:582:SER:HA	1:X:594:THR:HG22	1.97	0.46
1:Y:708:LYS:HD2	1:4:387:GLN:OE1	2.16	0.46
1:b:236:LEU:O	1:b:236:LEU:HD12	2.16	0.46
1:b:699:GLU:HG2	1:c:296:ARG:NE	2.30	0.46
1:b:701:GLN:H	1:c:703:THR:HG23	1.81	0.46
1:c:503:PHE:CZ	1:p:450:THR:HG21	2.51	0.46
1:c:656:PRO:HD2	1:s:677:THR:HG21	1.98	0.46
1:e:677:THR:HG21	1:h:656:PRO:HD2	1.98	0.46
1:e:703:THR:HG23	1:f:701:GLN:H	1.81	0.46
1:g:699:GLU:HG2	1:z:296:ARG:NE	2.30	0.46
1:i:236:LEU:HD12	1:i:236:LEU:O	2.16	0.46
1:i:439:LEU:HD21	1:j:278:SER:HB2	1.96	0.46
1:j:450:THR:HG21	1:k:503:PHE:CZ	2.51	0.46
1:j:699:GLU:HG2	1:w:296:ARG:NE	2.31	0.46
1:l:343:GLN:O	1:l:650:ILE:HA	2.16	0.46
1:o:236:LEU:HD12	1:o:236:LEU:O	2.16	0.46
1:o:450:THR:HG21	1:p:503:PHE:CZ	2.51	0.46
1:p:296:ARG:NE	1:s:699:GLU:HG2	2.31	0.46
1:q:582:SER:HA	1:q:594:THR:HG22	1.97	0.46
1:r:450:THR:HG21	1:s:503:PHE:CZ	2.51	0.46
1:u:387:GLN:OE1	1:5:708:LYS:HD2	2.16	0.46
1:v:656:PRO:HD2	1:1:677:THR:HG21	1.98	0.46
1:z:582:SER:HA	1:z:594:THR:HG22	1.97	0.46
1:2:367:PHE:CE2	1:2:369:ALA:HB3	2.50	0.46
1:3:528:THR:HG23	1:3:564:GLU:H	1.81	0.46
1:4:236:LEU:HD12	1:4:236:LEU:O	2.16	0.46
1:5:656:PRO:HD2	1:8:677:THR:HG21	1.97	0.46
1:6:528:THR:HG23	1:6:564:GLU:H	1.80	0.46
1:7:528:THR:HG23	1:7:564:GLU:H	1.81	0.46
1:8:345:PHE:CZ	1:8:649:LEU:HD12	2.51	0.46
1:A:278:SER:HB2	1:I:439:LEU:HD21	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:GLN:OE1	1:B:708:LYS:HD2	2.16	0.46
1:A:503:PHE:CZ	1:I:450:THR:HG21	2.50	0.46
1:B:703:THR:HG23	1:I:701:GLN:H	1.81	0.46
1:C:528:THR:HG23	1:C:564:GLU:H	1.80	0.46
1:C:653:THR:HG21	1:D:679:GLN:NE2	2.31	0.46
1:C:656:PRO:HD2	1:D:677:THR:HG21	1.98	0.46
1:D:352:LEU:HG	1:D:400:PHE:HE2	1.81	0.46
1:D:439:LEU:HD21	1:N:278:SER:HB2	1.98	0.46
1:D:528:THR:HG23	1:D:564:GLU:H	1.80	0.46
1:F:677:THR:HG21	1:G:656:PRO:HD2	1.98	0.46
1:H:343:GLN:O	1:H:650:ILE:HA	2.16	0.46
1:H:582:SER:HA	1:H:594:THR:HG22	1.97	0.46
1:J:582:SER:HA	1:J:594:THR:HG22	1.97	0.46
1:K:345:PHE:CZ	1:K:649:LEU:HD12	2.51	0.46
1:K:387:GLN:OE1	1:7:708:LYS:HD2	2.16	0.46
1:K:450:THR:HG21	1:a:503:PHE:CZ	2.51	0.46
1:L:352:LEU:HG	1:L:400:PHE:HE2	1.81	0.46
1:M:582:SER:HA	1:M:594:THR:HG22	1.97	0.46
1:M:679:GLN:NE2	1:N:653:THR:HG21	2.31	0.46
1:N:699:GLU:HG2	1:O:296:ARG:NE	2.31	0.46
1:O:397:LEU:HD23	1:O:649:LEU:HD13	1.98	0.46
1:Q:367:PHE:CE2	1:Q:369:ALA:HB3	2.50	0.46
1:R:387:GLN:OE1	1:V:708:LYS:HD2	2.16	0.46
1:R:582:SER:HA	1:R:594:THR:HG22	1.97	0.46
1:T:677:THR:HG21	1:U:656:PRO:HD2	1.98	0.46
1:U:677:THR:HG21	1:e:656:PRO:HD2	1.98	0.46
1:Y:236:LEU:HD12	1:Y:236:LEU:O	2.16	0.46
1:Y:703:THR:HG23	1:Z:701:GLN:H	1.81	0.46
1:Z:345:PHE:CZ	1:Z:649:LEU:HD12	2.51	0.46
1:a:343:GLN:O	1:a:650:ILE:HA	2.16	0.46
1:b:367:PHE:CE2	1:b:369:ALA:HB3	2.50	0.46
1:d:236:LEU:HD12	1:d:236:LEU:O	2.16	0.46
1:d:701:GLN:H	1:n:703:THR:HG23	1.81	0.46
1:d:703:THR:HG23	1:n:701:GLN:H	1.81	0.46
1:f:236:LEU:HD12	1:f:236:LEU:O	2.16	0.46
1:f:503:PHE:CZ	1:g:450:THR:HG21	2.51	0.46
1:g:701:GLN:H	1:z:703:THR:HG23	1.81	0.46
1:g:708:LYS:HD2	1:1:387:GLN:OE1	2.16	0.46
1:h:397:LEU:HD23	1:h:649:LEU:HD13	1.98	0.46
1:h:582:SER:HA	1:h:594:THR:HG22	1.97	0.46
1:j:679:GLN:NE2	1:x:653:THR:HG21	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:677:THR:HG21	1:s:656:PRO:HD2	1.98	0.46
1:o:296:ARG:NE	1:6:699:GLU:HG2	2.31	0.46
1:o:582:SER:HA	1:o:594:THR:HG22	1.97	0.46
1:p:367:PHE:CE2	1:p:369:ALA:HB3	2.50	0.46
1:p:528:THR:HG23	1:p:564:GLU:H	1.80	0.46
1:q:343:GLN:O	1:q:650:ILE:HA	2.16	0.46
1:s:528:THR:HG23	1:s:564:GLU:H	1.81	0.46
1:u:343:GLN:O	1:u:650:ILE:HA	2.16	0.46
1:u:701:GLN:H	1:1:703:THR:HG23	1.81	0.46
1:v:701:GLN:H	1:y:703:THR:HG23	1.81	0.46
1:x:343:GLN:O	1:x:650:ILE:HA	2.16	0.46
1:y:582:SER:HA	1:y:594:THR:HG22	1.97	0.46
1:z:352:LEU:HG	1:z:400:PHE:HE2	1.81	0.46
1:z:503:PHE:CZ	1:2:450:THR:HG21	2.51	0.46
1:1:343:GLN:O	1:1:650:ILE:HA	2.16	0.46
1:2:582:SER:HA	1:2:594:THR:HG22	1.97	0.46
1:3:343:GLN:O	1:3:650:ILE:HA	2.16	0.46
1:3:503:PHE:CZ	1:4:450:THR:HG21	2.51	0.46
1:4:345:PHE:CZ	1:4:649:LEU:HD12	2.51	0.46
1:5:343:GLN:O	1:5:650:ILE:HA	2.16	0.46
1:7:236:LEU:O	1:7:236:LEU:HD12	2.16	0.46
1:A:352:LEU:HG	1:A:400:PHE:HE2	1.81	0.46
1:B:343:GLN:O	1:B:650:ILE:HA	2.16	0.46
1:B:387:GLN:OE1	1:C:708:LYS:HD2	2.16	0.46
1:B:656:PRO:HD2	1:C:677:THR:HG21	1.98	0.46
1:C:343:GLN:O	1:C:650:ILE:HA	2.16	0.46
1:C:699:GLU:HG2	1:L:296:ARG:NE	2.30	0.46
1:C:701:GLN:H	1:L:703:THR:HG23	1.81	0.46
1:G:703:THR:HG23	1:H:701:GLN:H	1.80	0.46
1:I:708:LYS:HD2	1:J:387:GLN:OE1	2.16	0.46
1:J:343:GLN:O	1:J:650:ILE:HA	2.16	0.46
1:J:352:LEU:HG	1:J:400:PHE:HE2	1.81	0.46
1:K:656:PRO:HD2	1:7:677:THR:HG21	1.98	0.46
1:M:236:LEU:HD12	1:M:236:LEU:O	2.16	0.46
1:M:345:PHE:CZ	1:M:649:LEU:HD12	2.51	0.46
1:N:236:LEU:HD12	1:N:236:LEU:O	2.16	0.46
1:O:236:LEU:HD12	1:O:236:LEU:O	2.16	0.46
1:Q:343:GLN:O	1:Q:650:ILE:HA	2.16	0.46
1:R:345:PHE:CZ	1:R:649:LEU:HD12	2.51	0.46
1:S:582:SER:HA	1:S:594:THR:HG22	1.97	0.46
1:T:236:LEU:HD12	1:T:236:LEU:O	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:296:ARG:NE	1:V:699:GLU:HG2	2.30	0.46
1:V:528:THR:HG23	1:V:564:GLU:H	1.80	0.46
1:Y:677:THR:HG21	1:4:656:PRO:HD2	1.98	0.46
1:Z:352:LEU:HG	1:Z:400:PHE:HE2	1.81	0.46
1:Z:503:PHE:CZ	1:3:450:THR:HG21	2.51	0.46
1:c:352:LEU:HG	1:c:400:PHE:HE2	1.81	0.46
1:e:352:LEU:HG	1:e:400:PHE:HE2	1.81	0.46
1:g:343:GLN:O	1:g:650:ILE:HA	2.16	0.46
1:g:528:THR:HG23	1:g:564:GLU:H	1.81	0.46
1:h:236:LEU:HD12	1:h:236:LEU:O	2.16	0.46
1:k:352:LEU:HG	1:k:400:PHE:HE2	1.81	0.46
1:k:528:THR:HG23	1:k:564:GLU:H	1.81	0.46
1:l:226:SER:HG	1:l:319:ASN:H	1.55	0.46
1:l:397:LEU:HD23	1:l:649:LEU:HD13	1.98	0.46
1:n:236:LEU:HD12	1:n:236:LEU:O	2.16	0.46
1:q:345:PHE:CZ	1:q:649:LEU:HD12	2.51	0.46
1:t:677:THR:HG21	1:6:656:PRO:HD2	1.97	0.46
1:t:703:THR:HG23	1:5:701:GLN:H	1.80	0.46
1:u:450:THR:HG21	1:v:503:PHE:CZ	2.51	0.46
1:u:708:LYS:HD2	1:2:387:GLN:OE1	2.16	0.46
1:x:367:PHE:CE2	1:x:369:ALA:HB3	2.50	0.46
1:1:397:LEU:HD23	1:1:649:LEU:HD13	1.98	0.46
1:2:343:GLN:O	1:2:650:ILE:HA	2.16	0.46
1:2:352:LEU:HG	1:2:400:PHE:HE2	1.81	0.46
1:5:582:SER:HA	1:5:594:THR:HG22	1.97	0.46
1:7:703:THR:HG23	1:8:701:GLN:H	1.81	0.46
1:8:352:LEU:HG	1:8:400:PHE:HE2	1.81	0.46
1:A:345:PHE:CZ	1:A:649:LEU:HD12	2.51	0.46
1:A:701:GLN:H	1:F:703:THR:HG23	1.81	0.46
1:B:278:SER:HB2	1:L:439:LEU:HD21	1.97	0.46
1:B:397:LEU:HD23	1:B:649:LEU:HD13	1.98	0.46
1:D:653:THR:HG21	1:E:679:GLN:NE2	2.31	0.46
1:F:528:THR:HG23	1:F:564:GLU:H	1.81	0.46
1:G:397:LEU:HD23	1:G:649:LEU:HD13	1.98	0.46
1:G:677:THR:HG21	1:W:656:PRO:HD2	1.97	0.46
1:H:530:LYS:HG2	1:H:531:ASP:N	2.23	0.46
1:J:296:ARG:NE	1:K:699:GLU:HG2	2.30	0.46
1:M:397:LEU:HD23	1:M:649:LEU:HD13	1.98	0.46
1:O:345:PHE:CZ	1:O:649:LEU:HD12	2.51	0.46
1:O:387:GLN:OE1	1:d:708:LYS:HD2	2.16	0.46
1:O:503:PHE:CZ	1:n:450:THR:HG21	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:352:LEU:HG	1:R:400:PHE:HE2	1.81	0.46
1:R:653:THR:HG21	1:V:679:GLN:NE2	2.31	0.46
1:S:298:TRP:HE1	1:S:728:ILE:HG22	1.81	0.46
1:S:352:LEU:HG	1:S:400:PHE:HE2	1.81	0.46
1:T:503:PHE:CZ	1:l:450:THR:HG21	2.51	0.46
1:U:343:GLN:O	1:U:650:ILE:HA	2.16	0.46
1:W:345:PHE:CZ	1:W:649:LEU:HD12	2.51	0.46
1:Y:699:GLU:HG2	1:Z:296:ARG:NE	2.31	0.46
1:Y:701:GLN:H	1:Z:703:THR:HG23	1.80	0.46
1:Z:387:GLN:OE1	1:a:708:LYS:HD2	2.16	0.46
1:a:397:LEU:HD23	1:a:649:LEU:HD13	1.98	0.46
1:a:450:THR:HG21	1:8:503:PHE:CZ	2.51	0.46
1:c:236:LEU:HD12	1:c:236:LEU:O	2.16	0.46
1:d:450:THR:HG21	1:l:503:PHE:CZ	2.51	0.46
1:e:236:LEU:O	1:e:236:LEU:HD12	2.16	0.46
1:e:345:PHE:CZ	1:e:649:LEU:HD12	2.51	0.46
1:e:397:LEU:HD23	1:e:649:LEU:HD13	1.98	0.46
1:g:352:LEU:HG	1:g:400:PHE:HE2	1.81	0.46
1:g:653:THR:HG21	1:k:679:GLN:NE2	2.31	0.46
1:g:677:THR:HG21	1:1:656:PRO:HD2	1.98	0.46
1:g:703:THR:HG23	1:z:701:GLN:H	1.81	0.46
1:h:345:PHE:CZ	1:h:649:LEU:HD12	2.51	0.46
1:i:701:GLN:H	1:l:703:THR:HG23	1.80	0.46
1:l:236:LEU:HD12	1:l:236:LEU:O	2.16	0.46
1:l:345:PHE:CZ	1:l:649:LEU:HD12	2.51	0.46
1:l:387:GLN:OE1	1:n:708:LYS:HD2	2.16	0.46
1:m:236:LEU:O	1:m:236:LEU:HD12	2.16	0.46
1:p:679:GLN:NE2	1:q:653:THR:HG21	2.31	0.46
1:p:708:LYS:HD2	1:q:387:GLN:OE1	2.16	0.46
1:q:236:LEU:HD12	1:q:236:LEU:O	2.16	0.46
1:r:298:TRP:HE1	1:r:728:ILE:HG22	1.81	0.46
1:r:582:SER:HA	1:r:594:THR:HG22	1.97	0.46
1:t:236:LEU:HD12	1:t:236:LEU:O	2.16	0.46
1:t:656:PRO:HD2	1:y:677:THR:HG21	1.98	0.46
1:u:677:THR:HG21	1:2:656:PRO:HD2	1.98	0.46
1:v:345:PHE:CZ	1:v:649:LEU:HD12	2.51	0.46
1:v:352:LEU:HG	1:v:400:PHE:HE2	1.81	0.46
1:w:343:GLN:O	1:w:650:ILE:HA	2.16	0.46
1:x:352:LEU:HG	1:x:400:PHE:HE2	1.81	0.46
1:y:367:PHE:CE2	1:y:369:ALA:HB3	2.50	0.46
1:z:439:LEU:HD21	1:1:278:SER:HB2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:528:THR:HG23	1:z:564:GLU:H	1.81	0.46
1:1:230:HIS:O	1:1:245:THR:OG1	2.19	0.46
1:3:384:ASN:ND2	1:4:532:ASP:OD1	2.43	0.46
1:3:397:LEU:HD23	1:3:649:LEU:HD13	1.98	0.46
1:7:397:LEU:HD23	1:7:649:LEU:HD13	1.98	0.46
1:7:699:GLU:HG2	1:8:296:ARG:NE	2.30	0.46
1:A:582:SER:HA	1:A:594:THR:HG22	1.97	0.46
1:C:352:LEU:HG	1:C:400:PHE:HE2	1.81	0.46
1:E:343:GLN:O	1:E:650:ILE:HA	2.16	0.46
1:E:582:SER:HA	1:E:594:THR:HG22	1.97	0.46
1:F:367:PHE:CE2	1:F:369:ALA:HB3	2.50	0.46
1:G:236:LEU:HD12	1:G:236:LEU:O	2.16	0.46
1:G:343:GLN:O	1:G:650:ILE:HA	2.16	0.46
1:G:699:GLU:HG2	1:H:296:ARG:NE	2.30	0.46
1:H:528:THR:HG23	1:H:564:GLU:H	1.81	0.46
1:I:677:THR:HG21	1:J:656:PRO:HD2	1.98	0.46
1:J:532:ASP:OD1	1:L:384:ASN:ND2	2.43	0.46
1:L:528:THR:HG23	1:L:564:GLU:H	1.81	0.46
1:M:343:GLN:O	1:M:650:ILE:HA	2.16	0.46
1:N:708:LYS:HD2	1:m:387:GLN:OE1	2.15	0.46
1:O:298:TRP:HE1	1:O:728:ILE:HG22	1.81	0.46
1:O:450:THR:HG21	1:m:503:PHE:CZ	2.50	0.46
1:O:528:THR:HG23	1:O:564:GLU:H	1.81	0.46
1:O:679:GLN:NE2	1:P:653:THR:HG21	2.30	0.46
1:Q:485:CYS:HG	1:Q:578:TYR:HB2	1.80	0.46
1:R:236:LEU:O	1:R:236:LEU:HD12	2.16	0.46
1:W:343:GLN:O	1:W:650:ILE:HA	2.16	0.46
1:W:450:THR:HG21	1:Y:503:PHE:CZ	2.50	0.46
1:X:298:TRP:HE1	1:X:728:ILE:HG22	1.81	0.46
1:Y:345:PHE:CZ	1:Y:649:LEU:HD12	2.51	0.46
1:Y:352:LEU:HG	1:Y:400:PHE:HE2	1.81	0.46
1:Y:397:LEU:HD23	1:Y:649:LEU:HD13	1.98	0.46
1:Z:236:LEU:O	1:Z:236:LEU:HD12	2.16	0.46
1:c:345:PHE:CZ	1:c:649:LEU:HD12	2.51	0.46
1:c:397:LEU:HD23	1:c:649:LEU:HD13	1.98	0.46
1:d:298:TRP:HE1	1:d:728:ILE:HG22	1.81	0.46
1:e:701:GLN:H	1:f:703:THR:HG23	1.81	0.46
1:f:397:LEU:HD23	1:f:649:LEU:HD13	1.98	0.46
1:h:343:GLN:O	1:h:650:ILE:HA	2.16	0.46
1:h:703:THR:HG23	1:k:701:GLN:H	1.80	0.46
1:i:699:GLU:HG2	1:l:296:ARG:NE	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:298:TRP:HE1	1:l:728:ILE:HG22	1.81	0.46
1:l:528:THR:HG23	1:l:564:GLU:H	1.81	0.46
1:m:701:GLN:H	1:r:703:THR:HG23	1.81	0.46
1:n:387:GLN:OE1	1:r:708:LYS:HD2	2.15	0.46
1:o:298:TRP:HE1	1:o:728:ILE:HG22	1.81	0.46
1:p:699:GLU:HG2	1:s:296:ARG:NE	2.30	0.46
1:q:352:LEU:HG	1:q:400:PHE:HE2	1.81	0.46
1:r:352:LEU:HG	1:r:400:PHE:HE2	1.81	0.46
1:s:343:GLN:O	1:s:650:ILE:HA	2.16	0.46
1:t:343:GLN:O	1:t:650:ILE:HA	2.16	0.46
1:t:397:LEU:HD23	1:t:649:LEU:HD13	1.98	0.46
1:v:387:GLN:OE1	1:1:708:LYS:HD2	2.16	0.46
1:v:582:SER:HA	1:v:594:THR:HG22	1.97	0.46
1:w:352:LEU:HG	1:w:400:PHE:HE2	1.81	0.46
1:z:298:TRP:HE1	1:z:728:ILE:HG22	1.81	0.46
1:z:450:THR:HG21	1:1:503:PHE:CZ	2.51	0.46
1:1:528:THR:HG23	1:1:564:GLU:H	1.81	0.46
1:2:296:ARG:NE	1:4:699:GLU:HG2	2.30	0.46
1:2:677:THR:HG21	1:3:656:PRO:HD2	1.98	0.46
1:3:708:LYS:HD2	1:8:387:GLN:OE1	2.16	0.46
1:6:343:GLN:O	1:6:650:ILE:HA	2.16	0.46
1:6:345:PHE:CZ	1:6:649:LEU:HD12	2.51	0.46
1:7:345:PHE:CZ	1:7:649:LEU:HD12	2.51	0.46
1:7:701:GLN:H	1:8:703:THR:HG23	1.80	0.46
1:A:397:LEU:HD23	1:A:649:LEU:HD13	1.98	0.46
1:A:703:THR:HG23	1:F:701:GLN:H	1.81	0.46
1:B:503:PHE:CZ	1:L:450:THR:HG21	2.51	0.46
1:B:528:THR:HG23	1:B:564:GLU:H	1.81	0.46
1:B:653:THR:HG21	1:C:679:GLN:NE2	2.31	0.46
1:C:703:THR:HG23	1:L:701:GLN:H	1.81	0.46
1:E:278:SER:HB2	1:F:439:LEU:HD21	1.97	0.46
1:E:345:PHE:CZ	1:E:649:LEU:HD12	2.51	0.46
1:E:352:LEU:HG	1:E:400:PHE:HE2	1.81	0.46
1:F:352:LEU:HG	1:F:400:PHE:HE2	1.81	0.46
1:G:439:LEU:HD21	1:I:278:SER:HB2	1.98	0.46
1:H:278:SER:HB2	1:Y:439:LEU:HD21	1.97	0.46
1:I:298:TRP:HE1	1:I:728:ILE:HG22	1.81	0.46
1:J:677:THR:HG21	1:a:656:PRO:HD2	1.98	0.46
1:K:278:SER:HB2	1:8:439:LEU:HD21	1.98	0.46
1:K:343:GLN:O	1:K:650:ILE:HA	2.16	0.46
1:K:582:SER:HA	1:K:594:THR:HG22	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:679:GLN:NE2	1:L:653:THR:HG21	2.31	0.46
1:L:240:VAL:CG1	1:L:686:TRP:HB2	2.47	0.46
1:L:298:TRP:HE1	1:L:728:ILE:HG22	1.81	0.46
1:L:343:GLN:O	1:L:650:ILE:HA	2.16	0.46
1:L:397:LEU:HD23	1:L:649:LEU:HD13	1.98	0.46
1:N:298:TRP:HE1	1:N:728:ILE:HG22	1.81	0.46
1:O:582:SER:HA	1:O:594:THR:HG22	1.97	0.46
1:O:653:THR:HG21	1:d:679:GLN:NE2	2.31	0.46
1:Q:240:VAL:CG1	1:Q:686:TRP:HB2	2.46	0.46
1:Q:397:LEU:HD23	1:Q:649:LEU:HD13	1.98	0.46
1:R:397:LEU:HD23	1:R:649:LEU:HD13	1.98	0.46
1:S:240:VAL:CG1	1:S:686:TRP:HB2	2.46	0.46
1:S:703:THR:HG23	1:T:701:GLN:H	1.81	0.46
1:S:708:LYS:HD2	1:d:387:GLN:OE1	2.15	0.46
1:T:656:PRO:HD2	1:i:677:THR:HG21	1.98	0.46
1:U:485:CYS:HG	1:U:578:TYR:HB2	1.80	0.46
1:U:708:LYS:HD2	1:e:387:GLN:OE1	2.16	0.46
1:X:278:SER:HB2	1:e:439:LEU:HD21	1.97	0.46
1:Y:343:GLN:O	1:Y:650:ILE:HA	2.16	0.46
1:b:397:LEU:HD23	1:b:649:LEU:HD13	1.98	0.46
1:b:703:THR:HG23	1:c:701:GLN:H	1.81	0.46
1:c:343:GLN:O	1:c:650:ILE:HA	2.16	0.46
1:c:387:GLN:OE1	1:s:708:LYS:HD2	2.16	0.46
1:c:439:LEU:HD21	1:o:278:SER:HB2	1.97	0.46
1:e:343:GLN:O	1:e:650:ILE:HA	2.16	0.46
1:f:278:SER:HB2	1:g:439:LEU:HD21	1.97	0.46
1:i:298:TRP:HE1	1:i:728:ILE:HG22	1.81	0.46
1:j:703:THR:HG23	1:w:701:GLN:H	1.81	0.46
1:l:582:SER:HA	1:l:594:THR:HG22	1.97	0.46
1:m:345:PHE:CZ	1:m:649:LEU:HD12	2.51	0.46
1:m:708:LYS:HD2	1:s:387:GLN:OE1	2.16	0.46
1:n:298:TRP:HE1	1:n:728:ILE:HG22	1.81	0.46
1:n:352:LEU:HG	1:n:400:PHE:HE2	1.81	0.46
1:o:343:GLN:O	1:o:650:ILE:HA	2.16	0.46
1:q:397:LEU:HD23	1:q:649:LEU:HD13	1.98	0.46
1:q:703:THR:HG23	1:x:701:GLN:H	1.81	0.46
1:r:240:VAL:CG1	1:r:686:TRP:HB2	2.46	0.46
1:t:439:LEU:HD21	1:u:278:SER:HB2	1.98	0.46
1:t:699:GLU:HG2	1:5:296:ARG:NE	2.30	0.46
1:t:701:GLN:H	1:5:703:THR:HG23	1.81	0.46
1:u:298:TRP:HE1	1:u:728:ILE:HG22	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:532:ASP:OD1	1:v:384:ASN:ND2	2.43	0.46
1:v:397:LEU:HD23	1:v:649:LEU:HD13	1.98	0.46
1:v:677:THR:HG21	1:w:656:PRO:HD2	1.98	0.46
1:v:703:THR:HG23	1:y:701:GLN:H	1.81	0.46
1:x:240:VAL:CG1	1:x:686:TRP:HB2	2.47	0.46
1:y:528:THR:HG23	1:y:564:GLU:H	1.81	0.46
1:z:240:VAL:CG1	1:z:686:TRP:HB2	2.47	0.46
1:z:343:GLN:O	1:z:650:ILE:HA	2.16	0.46
1:z:397:LEU:HD23	1:z:649:LEU:HD13	1.98	0.46
1:4:582:SER:HA	1:4:594:THR:HG22	1.97	0.46
1:5:528:THR:HG23	1:5:564:GLU:H	1.81	0.46
1:6:450:THR:HG21	1:7:503:PHE:CZ	2.50	0.46
1:7:343:GLN:O	1:7:650:ILE:HA	2.16	0.46
1:7:352:LEU:HG	1:7:400:PHE:HE2	1.81	0.46
1:8:236:LEU:HD12	1:8:236:LEU:O	2.16	0.46
1:A:343:GLN:O	1:A:650:ILE:HA	2.16	0.45
1:B:352:LEU:HG	1:B:400:PHE:HE2	1.81	0.45
1:D:701:GLN:H	1:M:703:THR:HG23	1.80	0.45
1:F:240:VAL:CG1	1:F:686:TRP:HB2	2.46	0.45
1:F:653:THR:HG21	1:R:679:GLN:NE2	2.32	0.45
1:H:653:THR:HG21	1:Z:679:GLN:NE2	2.31	0.45
1:K:397:LEU:HD23	1:K:649:LEU:HD13	1.98	0.45
1:K:532:ASP:OD1	1:a:384:ASN:ND2	2.43	0.45
1:K:708:LYS:HD2	1:L:387:GLN:OE1	2.16	0.45
1:N:240:VAL:CG1	1:N:686:TRP:HB2	2.47	0.45
1:O:278:SER:HB2	1:n:439:LEU:HD21	1.97	0.45
1:P:373:MET:CE	1:Q:664:THR:H	2.29	0.45
1:P:528:THR:HG23	1:P:564:GLU:H	1.81	0.45
1:Q:352:LEU:HG	1:Q:400:PHE:HE2	1.81	0.45
1:Q:528:THR:HG23	1:Q:564:GLU:H	1.81	0.45
1:Q:701:GLN:H	1:R:703:THR:HG23	1.81	0.45
1:T:345:PHE:CZ	1:T:649:LEU:HD12	2.51	0.45
1:U:345:PHE:CZ	1:U:649:LEU:HD12	2.51	0.45
1:X:343:GLN:O	1:X:650:ILE:HA	2.16	0.45
1:X:352:LEU:HG	1:X:400:PHE:HE2	1.81	0.45
1:Z:439:LEU:HD21	1:4:278:SER:HB2	1.98	0.45
1:b:352:LEU:HG	1:b:400:PHE:HE2	1.81	0.45
1:c:278:SER:HB2	1:p:439:LEU:HD21	1.97	0.45
1:d:439:LEU:HD21	1:l:278:SER:HB2	1.97	0.45
1:f:352:LEU:HG	1:f:400:PHE:HE2	1.81	0.45
1:f:656:PRO:HD2	1:z:677:THR:HG21	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:679:GLN:NE2	1:1:653:THR:HG21	2.31	0.45
1:i:240:VAL:CG1	1:i:686:TRP:HB2	2.46	0.45
1:j:352:LEU:HG	1:j:400:PHE:HE2	1.81	0.45
1:j:677:THR:HG21	1:x:656:PRO:HD2	1.98	0.45
1:k:343:GLN:O	1:k:650:ILE:HA	2.16	0.45
1:k:653:THR:HG21	1:w:679:GLN:NE2	2.31	0.45
1:l:653:THR:HG21	1:n:679:GLN:NE2	2.31	0.45
1:o:701:GLN:H	1:6:703:THR:HG23	1.81	0.45
1:p:387:GLN:OE1	1:6:708:LYS:HD2	2.16	0.45
1:p:677:THR:HG21	1:q:656:PRO:HD2	1.98	0.45
1:s:298:TRP:HE1	1:s:728:ILE:HG22	1.81	0.45
1:u:296:ARG:NE	1:1:699:GLU:HG2	2.30	0.45
1:u:653:THR:HG21	1:5:679:GLN:NE2	2.31	0.45
1:w:278:SER:HB2	1:y:439:LEU:HD21	1.97	0.45
1:w:582:SER:HA	1:w:594:THR:HG22	1.97	0.45
1:x:528:THR:HG23	1:x:564:GLU:H	1.81	0.45
1:y:352:LEU:HG	1:y:400:PHE:HE2	1.81	0.45
1:z:278:SER:HB2	1:2:439:LEU:HD21	1.97	0.45
1:z:387:GLN:OE1	1:4:708:LYS:HD2	2.16	0.45
1:z:653:THR:HG21	1:4:679:GLN:NE2	2.31	0.45
1:3:485:CYS:HG	1:3:578:TYR:HB2	1.80	0.45
1:3:677:THR:HG21	1:8:656:PRO:HD2	1.98	0.45
1:3:679:GLN:NE2	1:8:653:THR:HG21	2.31	0.45
1:4:343:GLN:O	1:4:650:ILE:HA	2.16	0.45
1:5:278:SER:HB2	1:7:439:LEU:HD21	1.97	0.45
1:5:653:THR:HG21	1:8:679:GLN:NE2	2.31	0.45
1:A:298:TRP:HE1	1:A:728:ILE:HG22	1.81	0.45
1:A:384:ASN:ND2	1:I:532:ASP:OD1	2.42	0.45
1:C:236:LEU:HD12	1:C:236:LEU:O	2.16	0.45
1:C:439:LEU:HD21	1:b:278:SER:HB2	1.97	0.45
1:D:343:GLN:O	1:D:650:ILE:HA	2.16	0.45
1:D:582:SER:HA	1:D:594:THR:HG22	1.97	0.45
1:D:699:GLU:HG2	1:M:296:ARG:NE	2.30	0.45
1:E:240:VAL:CG1	1:E:686:TRP:HB2	2.47	0.45
1:F:345:PHE:CZ	1:F:649:LEU:HD12	2.51	0.45
1:G:582:SER:HA	1:G:594:THR:HG22	1.97	0.45
1:G:701:GLN:H	1:H:703:THR:HG23	1.81	0.45
1:H:345:PHE:CZ	1:H:649:LEU:HD12	2.51	0.45
1:H:679:GLN:NE2	1:I:653:THR:HG21	2.31	0.45
1:J:439:LEU:HD21	1:L:278:SER:HB2	1.97	0.45
1:L:677:THR:HG21	1:b:656:PRO:HD2	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:701:GLN:H	1:O:703:THR:HG23	1.80	0.45
1:P:352:LEU:HG	1:P:400:PHE:HE2	1.81	0.45
1:R:656:PRO:HD2	1:V:677:THR:HG21	1.98	0.45
1:T:278:SER:HB2	1:l:439:LEU:HD21	1.98	0.45
1:T:708:LYS:HD2	1:U:387:GLN:OE1	2.16	0.45
1:U:298:TRP:HE1	1:U:728:ILE:HG22	1.81	0.45
1:U:397:LEU:HD23	1:U:649:LEU:HD13	1.98	0.45
1:U:679:GLN:NE2	1:e:653:THR:HG21	2.31	0.45
1:V:653:THR:HG21	1:W:679:GLN:NE2	2.31	0.45
1:W:240:VAL:CG1	1:W:686:TRP:HB2	2.47	0.45
1:W:397:LEU:HD23	1:W:649:LEU:HD13	1.98	0.45
1:W:439:LEU:HD21	1:Y:278:SER:HB2	1.98	0.45
1:Z:653:THR:HG21	1:a:679:GLN:NE2	2.31	0.45
1:Z:656:PRO:HD2	1:a:677:THR:HG21	1.98	0.45
1:b:240:VAL:CG1	1:b:686:TRP:HB2	2.46	0.45
1:b:708:LYS:HD2	1:o:387:GLN:OE1	2.16	0.45
1:c:450:THR:HG21	1:o:503:PHE:CZ	2.51	0.45
1:f:240:VAL:CG1	1:f:686:TRP:HB2	2.46	0.45
1:h:296:ARG:NE	1:k:699:GLU:HG2	2.31	0.45
1:j:236:LEU:HD12	1:j:236:LEU:O	2.16	0.45
1:j:528:THR:HG23	1:j:564:GLU:H	1.81	0.45
1:j:656:PRO:HD2	1:l:677:THR:HG21	1.97	0.45
1:k:397:LEU:HD23	1:k:649:LEU:HD13	1.98	0.45
1:n:343:GLN:O	1:n:650:ILE:HA	2.16	0.45
1:o:352:LEU:HG	1:o:400:PHE:HE2	1.81	0.45
1:p:298:TRP:HE1	1:p:728:ILE:HG22	1.81	0.45
1:p:703:THR:HG23	1:s:701:GLN:H	1.81	0.45
1:q:679:GLN:NE2	1:y:653:THR:HG21	2.32	0.45
1:q:701:GLN:H	1:x:703:THR:HG23	1.81	0.45
1:s:345:PHE:CZ	1:s:649:LEU:HD12	2.51	0.45
1:t:503:PHE:CZ	1:v:450:THR:HG21	2.51	0.45
1:u:240:VAL:CG1	1:u:686:TRP:HB2	2.47	0.45
1:v:236:LEU:HD12	1:v:236:LEU:O	2.16	0.45
1:v:298:TRP:HE1	1:v:728:ILE:HG22	1.81	0.45
1:v:343:GLN:O	1:v:650:ILE:HA	2.16	0.45
1:w:240:VAL:CG1	1:w:686:TRP:HB2	2.46	0.45
1:w:532:ASP:OD1	1:x:384:ASN:ND2	2.43	0.45
1:x:397:LEU:HD23	1:x:649:LEU:HD13	1.98	0.45
1:x:450:THR:HG21	1:y:503:PHE:CZ	2.51	0.45
1:x:582:SER:HA	1:x:594:THR:HG22	1.97	0.45
1:y:240:VAL:CG1	1:y:686:TRP:HB2	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:345:PHE:CZ	1:y:649:LEU:HD12	2.51	0.45
1:1:352:LEU:HG	1:1:400:PHE:HE2	1.81	0.45
1:2:528:THR:HG23	1:2:564:GLU:H	1.80	0.45
1:4:397:LEU:HD23	1:4:649:LEU:HD13	1.98	0.45
1:5:530:LYS:HG2	1:5:531:ASP:N	2.23	0.45
1:6:397:LEU:HD23	1:6:649:LEU:HD13	1.98	0.45
1:6:439:LEU:HD21	1:7:278:SER:HB2	1.98	0.45
1:A:236:LEU:HD12	1:A:236:LEU:O	2.16	0.45
1:A:677:THR:HG21	1:E:656:PRO:HD2	1.98	0.45
1:B:450:THR:HG21	1:J:503:PHE:CZ	2.51	0.45
1:B:699:GLU:HG2	1:I:296:ARG:NE	2.30	0.45
1:C:345:PHE:CZ	1:C:649:LEU:HD12	2.51	0.45
1:D:345:PHE:CZ	1:D:649:LEU:HD12	2.51	0.45
1:D:397:LEU:HD23	1:D:649:LEU:HD13	1.98	0.45
1:E:532:ASP:OD1	1:Q:384:ASN:ND2	2.43	0.45
1:F:503:PHE:CZ	1:Q:450:THR:HG21	2.51	0.45
1:F:708:LYS:HD2	1:G:387:GLN:OE1	2.16	0.45
1:H:352:LEU:HG	1:H:400:PHE:HE2	1.81	0.45
1:I:240:VAL:CG1	1:I:686:TRP:HB2	2.47	0.45
1:I:397:LEU:HD23	1:I:649:LEU:HD13	1.98	0.45
1:N:343:GLN:O	1:N:650:ILE:HA	2.16	0.45
1:O:240:VAL:CG1	1:O:686:TRP:HB2	2.46	0.45
1:P:298:TRP:HE1	1:P:728:ILE:HG22	1.81	0.45
1:P:343:GLN:O	1:P:650:ILE:HA	2.16	0.45
1:Q:345:PHE:CZ	1:Q:649:LEU:HD12	2.51	0.45
1:Q:703:THR:HG23	1:R:701:GLN:H	1.81	0.45
1:R:528:THR:HG23	1:R:564:GLU:H	1.81	0.45
1:U:240:VAL:CG1	1:U:686:TRP:HB2	2.47	0.45
1:U:701:GLN:H	1:V:703:THR:HG23	1.81	0.45
1:V:387:GLN:OE1	1:W:708:LYS:HD2	2.16	0.45
1:V:439:LEU:HD21	1:e:278:SER:HB2	1.97	0.45
1:W:703:THR:HG23	1:X:701:GLN:H	1.81	0.45
1:X:387:GLN:OE1	1:f:708:LYS:HD2	2.16	0.45
1:X:503:PHE:CZ	1:e:450:THR:HG21	2.51	0.45
1:X:677:THR:HG21	1:Y:656:PRO:HD2	1.97	0.45
1:Y:240:VAL:CG1	1:Y:686:TRP:HB2	2.47	0.45
1:Y:298:TRP:HE1	1:Y:728:ILE:HG22	1.81	0.45
1:a:352:LEU:HG	1:a:400:PHE:HE2	1.81	0.45
1:c:298:TRP:HE1	1:c:728:ILE:HG22	1.81	0.45
1:c:653:THR:HG21	1:s:679:GLN:NE2	2.32	0.45
1:d:343:GLN:O	1:d:650:ILE:HA	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:352:LEU:HG	1:d:400:PHE:HE2	1.81	0.45
1:e:298:TRP:HE1	1:e:728:ILE:HG22	1.81	0.45
1:g:236:LEU:HD12	1:g:236:LEU:O	2.16	0.45
1:h:528:THR:HG23	1:h:564:GLU:H	1.81	0.45
1:h:708:LYS:HD2	1:i:387:GLN:OE1	2.16	0.45
1:i:343:GLN:O	1:i:650:ILE:HA	2.16	0.45
1:j:298:TRP:HE1	1:j:728:ILE:HG22	1.81	0.45
1:k:345:PHE:CZ	1:k:649:LEU:HD12	2.51	0.45
1:l:240:VAL:CG1	1:l:686:TRP:HB2	2.46	0.45
1:o:708:LYS:HD2	1:7:387:GLN:OE1	2.17	0.45
1:p:653:THR:HG21	1:6:679:GLN:NE2	2.31	0.45
1:q:528:THR:HG23	1:q:564:GLU:H	1.81	0.45
1:r:528:THR:HG23	1:r:564:GLU:H	1.80	0.45
1:s:240:VAL:CG1	1:s:686:TRP:HB2	2.47	0.45
1:s:397:LEU:HD23	1:s:649:LEU:HD13	1.98	0.45
1:w:345:PHE:CZ	1:w:649:LEU:HD12	2.51	0.45
1:x:345:PHE:CZ	1:x:649:LEU:HD12	2.51	0.45
1:z:384:ASN:ND2	1:2:532:ASP:OD1	2.43	0.45
1:1:236:LEU:HD12	1:1:236:LEU:O	2.16	0.45
1:1:345:PHE:CZ	1:1:649:LEU:HD12	2.51	0.45
1:1:450:THR:HG21	1:2:503:PHE:CZ	2.51	0.45
1:5:345:PHE:CZ	1:5:649:LEU:HD12	2.51	0.45
1:6:240:VAL:CG1	1:6:686:TRP:HB2	2.47	0.45
1:7:240:VAL:CG1	1:7:686:TRP:HB2	2.47	0.45
1:A:708:LYS:HD2	1:E:387:GLN:OE1	2.16	0.45
1:B:236:LEU:O	1:B:236:LEU:HD12	2.16	0.45
1:B:345:PHE:CZ	1:B:649:LEU:HD12	2.51	0.45
1:D:236:LEU:HD12	1:D:236:LEU:O	2.16	0.45
1:D:703:THR:HG23	1:M:701:GLN:H	1.81	0.45
1:F:343:GLN:O	1:F:650:ILE:HA	2.16	0.45
1:H:556:LEU:O	1:H:559:VAL:HG22	2.17	0.45
1:J:240:VAL:CG1	1:J:686:TRP:HB2	2.46	0.45
1:J:528:THR:HG23	1:J:564:GLU:H	1.81	0.45
1:J:701:GLN:H	1:K:703:THR:HG23	1.80	0.45
1:K:240:VAL:CG1	1:K:686:TRP:HB2	2.47	0.45
1:L:345:PHE:CZ	1:L:649:LEU:HD12	2.51	0.45
1:M:528:THR:HG23	1:M:564:GLU:H	1.81	0.45
1:O:439:LEU:HD21	1:m:278:SER:HB2	1.98	0.45
1:P:236:LEU:HD12	1:P:236:LEU:O	2.16	0.45
1:Q:582:SER:HA	1:Q:594:THR:HG22	1.97	0.45
1:Q:708:LYS:HD2	1:S:387:GLN:OE1	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:298:TRP:HE1	1:T:728:ILE:HG22	1.81	0.45
1:U:703:THR:HG23	1:V:701:GLN:H	1.81	0.45
1:V:298:TRP:HE1	1:V:728:ILE:HG22	1.81	0.45
1:X:240:VAL:CG1	1:X:686:TRP:HB2	2.46	0.45
1:X:708:LYS:HD2	1:Y:387:GLN:OE1	2.17	0.45
1:b:343:GLN:O	1:b:650:ILE:HA	2.16	0.45
1:b:528:THR:HG23	1:b:564:GLU:H	1.81	0.45
1:f:343:GLN:O	1:f:650:ILE:HA	2.16	0.45
1:f:439:LEU:HD21	1:h:278:SER:HB2	1.97	0.45
1:i:345:PHE:CZ	1:i:649:LEU:HD12	2.51	0.45
1:j:343:GLN:O	1:j:650:ILE:HA	2.16	0.45
1:j:387:GLN:OE1	1:l:708:LYS:HD2	2.17	0.45
1:j:701:GLN:H	1:w:703:THR:HG23	1.80	0.45
1:k:236:LEU:HD12	1:k:236:LEU:O	2.16	0.45
1:m:450:THR:HG21	1:n:503:PHE:CZ	2.51	0.45
1:m:679:GLN:NE2	1:s:653:THR:HG21	2.31	0.45
1:o:240:VAL:CG1	1:o:686:TRP:HB2	2.46	0.45
1:p:352:LEU:HG	1:p:400:PHE:HE2	1.81	0.45
1:q:439:LEU:HD21	1:r:278:SER:HB2	1.97	0.45
1:s:352:LEU:HG	1:s:400:PHE:HE2	1.81	0.45
1:t:387:GLN:OE1	1:y:708:LYS:HD2	2.16	0.45
1:t:582:SER:HA	1:t:594:THR:HG22	1.97	0.45
1:u:345:PHE:CZ	1:u:649:LEU:HD12	2.51	0.45
1:u:397:LEU:HD23	1:u:649:LEU:HD13	1.98	0.45
1:w:298:TRP:HE1	1:w:728:ILE:HG22	1.81	0.45
1:y:343:GLN:O	1:y:650:ILE:HA	2.16	0.45
1:2:679:GLN:NE2	1:3:653:THR:HG21	2.31	0.45
1:3:352:LEU:HG	1:3:400:PHE:HE2	1.81	0.45
1:4:240:VAL:CG1	1:4:686:TRP:HB2	2.47	0.45
1:4:352:LEU:HG	1:4:400:PHE:HE2	1.81	0.45
1:5:352:LEU:HG	1:5:400:PHE:HE2	1.81	0.45
1:5:556:LEU:O	1:5:559:VAL:HG22	2.17	0.45
1:7:298:TRP:HE1	1:7:728:ILE:HG22	1.81	0.45
1:B:530:LYS:HG2	1:B:531:ASP:N	2.23	0.45
1:E:298:TRP:HE1	1:E:728:ILE:HG22	1.81	0.45
1:F:278:SER:HB2	1:Q:439:LEU:HD21	1.97	0.45
1:F:387:GLN:OE1	1:R:708:LYS:HD2	2.16	0.45
1:F:556:LEU:O	1:F:559:VAL:HG22	2.17	0.45
1:I:345:PHE:CZ	1:I:649:LEU:HD12	2.51	0.45
1:J:679:GLN:NE2	1:a:653:THR:HG21	2.31	0.45
1:K:352:LEU:HG	1:K:400:PHE:HE2	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:653:THR:HG21	1:c:679:GLN:NE2	2.31	0.45
1:N:345:PHE:CZ	1:N:649:LEU:HD12	2.51	0.45
1:N:556:LEU:O	1:N:559:VAL:HG22	2.17	0.45
1:O:352:LEU:HG	1:O:400:PHE:HE2	1.81	0.45
1:S:528:THR:HG23	1:S:564:GLU:H	1.81	0.45
1:T:439:LEU:HD21	1:d:278:SER:HB2	1.97	0.45
1:T:528:THR:HG23	1:T:564:GLU:H	1.81	0.45
1:T:582:SER:HA	1:T:594:THR:HG22	1.97	0.45
1:T:679:GLN:NE2	1:U:653:THR:HG21	2.31	0.45
1:U:352:LEU:HG	1:U:400:PHE:HE2	1.81	0.45
1:V:352:LEU:HG	1:V:400:PHE:HE2	1.81	0.45
1:W:433:ASP:N	1:W:433:ASP:OD1	2.50	0.45
1:X:679:GLN:NE2	1:Y:653:THR:HG21	2.31	0.45
1:a:240:VAL:CG1	1:a:686:TRP:HB2	2.46	0.45
1:f:387:GLN:OE1	1:z:708:LYS:HD2	2.16	0.45
1:g:345:PHE:CZ	1:g:649:LEU:HD12	2.51	0.45
1:h:298:TRP:HE1	1:h:728:ILE:HG22	1.81	0.45
1:h:701:GLN:H	1:k:703:THR:HG23	1.81	0.45
1:k:387:GLN:OE1	1:w:708:LYS:HD2	2.16	0.45
1:k:582:SER:HA	1:k:594:THR:HG22	1.97	0.45
1:m:439:LEU:HD21	1:n:278:SER:HB2	1.97	0.45
1:m:528:THR:HG23	1:m:564:GLU:H	1.81	0.45
1:o:556:LEU:O	1:o:559:VAL:HG22	2.17	0.45
1:o:677:THR:HG21	1:7:656:PRO:HD2	1.97	0.45
1:p:701:GLN:H	1:s:703:THR:HG23	1.81	0.45
1:q:708:LYS:HD2	1:y:387:GLN:OE1	2.16	0.45
1:t:296:ARG:NE	1:5:699:GLU:HG2	2.30	0.45
1:x:439:LEU:HD21	1:y:278:SER:HB2	1.97	0.45
1:y:298:TRP:HE1	1:y:728:ILE:HG22	1.81	0.45
1:y:556:LEU:O	1:y:559:VAL:HG22	2.17	0.45
1:z:345:PHE:CZ	1:z:649:LEU:HD12	2.51	0.45
1:2:240:VAL:CG1	1:2:686:TRP:HB2	2.46	0.45
1:2:701:GLN:H	1:4:703:THR:HG23	1.81	0.45
1:2:703:THR:HG23	1:4:701:GLN:H	1.81	0.45
1:8:240:VAL:CG1	1:8:686:TRP:HB2	2.47	0.45
1:B:439:LEU:HD21	1:J:278:SER:HB2	1.97	0.45
1:C:298:TRP:HE1	1:C:728:ILE:HG22	1.81	0.45
1:D:298:TRP:HE1	1:D:728:ILE:HG22	1.81	0.45
1:E:397:LEU:HD23	1:E:649:LEU:HD13	1.98	0.45
1:F:656:PRO:HD2	1:R:677:THR:HG21	1.98	0.45
1:G:708:LYS:HD2	1:W:387:GLN:OE1	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:439:LEU:HD21	1:W:278:SER:HB2	1.97	0.45
1:I:528:THR:HG23	1:I:564:GLU:H	1.80	0.45
1:J:345:PHE:CZ	1:J:649:LEU:HD12	2.51	0.45
1:L:236:LEU:HD12	1:L:236:LEU:O	2.16	0.45
1:L:708:LYS:HD2	1:b:387:GLN:OE1	2.16	0.45
1:M:278:SER:HB2	1:b:439:LEU:HD21	1.97	0.45
1:M:298:TRP:HE1	1:M:728:ILE:HG22	1.81	0.45
1:P:582:SER:HA	1:P:594:THR:HG22	1.97	0.45
1:R:298:TRP:HE1	1:R:728:ILE:HG22	1.81	0.45
1:R:439:LEU:HD21	1:S:278:SER:HB2	1.97	0.45
1:R:556:LEU:O	1:R:559:VAL:HG22	2.17	0.45
1:S:236:LEU:HD12	1:S:236:LEU:O	2.16	0.45
1:T:450:THR:HG21	1:d:503:PHE:CZ	2.51	0.45
1:W:582:SER:HA	1:W:594:THR:HG22	1.97	0.45
1:X:556:LEU:O	1:X:559:VAL:HG22	2.17	0.45
1:Z:240:VAL:CG1	1:Z:686:TRP:HB2	2.47	0.45
1:Z:343:GLN:O	1:Z:650:ILE:HA	2.16	0.45
1:Z:384:ASN:ND2	1:3:532:ASP:OD1	2.43	0.45
1:a:703:THR:HG23	1:3:701:GLN:H	1.81	0.45
1:d:240:VAL:CG1	1:d:686:TRP:HB2	2.46	0.45
1:e:679:GLN:NE2	1:h:653:THR:HG21	2.31	0.45
1:f:528:THR:HG23	1:f:564:GLU:H	1.81	0.45
1:i:352:LEU:HG	1:i:400:PHE:HE2	1.81	0.45
1:i:556:LEU:O	1:i:559:VAL:HG22	2.17	0.45
1:j:345:PHE:CZ	1:j:649:LEU:HD12	2.51	0.45
1:m:582:SER:HA	1:m:594:THR:HG22	1.97	0.45
1:m:703:THR:HG23	1:r:701:GLN:H	1.81	0.45
1:n:230:HIS:O	1:n:245:THR:OG1	2.19	0.45
1:o:679:GLN:NE2	1:7:653:THR:HG21	2.31	0.45
1:p:240:VAL:CG1	1:p:686:TRP:HB2	2.47	0.45
1:q:240:VAL:CG1	1:q:686:TRP:HB2	2.47	0.45
1:q:298:TRP:HE1	1:q:728:ILE:HG22	1.81	0.45
1:q:556:LEU:O	1:q:559:VAL:HG22	2.17	0.45
1:q:677:THR:HG21	1:y:656:PRO:HD2	1.98	0.45
1:r:236:LEU:HD12	1:r:236:LEU:O	2.16	0.45
1:r:387:GLN:OE1	1:x:708:LYS:HD2	2.16	0.45
1:r:556:LEU:O	1:r:559:VAL:HG22	2.17	0.45
1:t:345:PHE:CZ	1:t:649:LEU:HD12	2.51	0.45
1:t:532:ASP:OD1	1:u:384:ASN:ND2	2.43	0.45
1:t:556:LEU:O	1:t:559:VAL:HG22	2.17	0.45
1:u:582:SER:HA	1:u:594:THR:HG22	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:240:VAL:CG1	1:v:686:TRP:HB2	2.46	0.45
1:2:556:LEU:O	1:2:559:VAL:HG22	2.17	0.45
1:3:240:VAL:CG1	1:3:686:TRP:HB2	2.46	0.45
1:5:439:LEU:HD21	1:6:278:SER:HB2	1.97	0.45
1:6:556:LEU:O	1:6:559:VAL:HG22	2.17	0.45
1:8:528:THR:HG23	1:8:564:GLU:H	1.81	0.45
1:8:556:LEU:O	1:8:559:VAL:HG22	2.17	0.45
1:A:240:VAL:CG1	1:A:686:TRP:HB2	2.46	0.45
1:C:240:VAL:CG1	1:C:686:TRP:HB2	2.46	0.45
1:E:556:LEU:O	1:E:559:VAL:HG22	2.17	0.45
1:F:298:TRP:HE1	1:F:728:ILE:HG22	1.81	0.45
1:F:679:GLN:NE2	1:G:653:THR:HG21	2.31	0.45
1:G:296:ARG:NE	1:H:699:GLU:HG2	2.30	0.45
1:G:345:PHE:CZ	1:G:649:LEU:HD12	2.51	0.45
1:J:556:LEU:O	1:J:559:VAL:HG22	2.17	0.45
1:J:703:THR:HG23	1:K:701:GLN:H	1.81	0.45
1:N:352:LEU:HG	1:N:400:PHE:HE2	1.81	0.45
1:O:556:LEU:O	1:O:559:VAL:HG22	2.17	0.45
1:P:345:PHE:CZ	1:P:649:LEU:HD12	2.51	0.45
1:R:240:VAL:CG1	1:R:686:TRP:HB2	2.46	0.45
1:R:503:PHE:CZ	1:U:450:THR:HG21	2.51	0.45
1:S:556:LEU:O	1:S:559:VAL:HG22	2.17	0.45
1:T:240:VAL:CG1	1:T:686:TRP:HB2	2.47	0.45
1:V:240:VAL:CG1	1:V:686:TRP:HB2	2.47	0.45
1:W:556:LEU:O	1:W:559:VAL:HG22	2.17	0.45
1:Z:556:LEU:O	1:Z:559:VAL:HG22	2.17	0.45
1:a:532:ASP:OD1	1:8:384:ASN:ND2	2.43	0.45
1:a:701:GLN:H	1:3:703:THR:HG23	1.81	0.45
1:i:278:SER:HB2	1:k:439:LEU:HD21	1.99	0.45
1:j:582:SER:HA	1:j:594:THR:HG22	1.97	0.45
1:l:352:LEU:HG	1:l:400:PHE:HE2	1.81	0.45
1:l:556:LEU:O	1:l:559:VAL:HG22	2.17	0.45
1:m:240:VAL:CG1	1:m:686:TRP:HB2	2.46	0.45
1:m:298:TRP:HE1	1:m:728:ILE:HG22	1.81	0.45
1:n:240:VAL:CG1	1:n:686:TRP:HB2	2.46	0.45
1:p:343:GLN:O	1:p:650:ILE:HA	2.16	0.45
1:r:656:PRO:HD2	1:x:677:THR:HG21	1.98	0.45
1:t:708:LYS:HD2	1:6:387:GLN:OE1	2.17	0.45
1:v:679:GLN:NE2	1:w:653:THR:HG21	2.31	0.45
1:w:556:LEU:O	1:w:559:VAL:HG22	2.17	0.45
1:z:236:LEU:HD12	1:z:236:LEU:O	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:345:PHE:CZ	1:3:649:LEU:HD12	2.51	0.45
1:6:352:LEU:HG	1:6:400:PHE:HE2	1.81	0.45
1:6:582:SER:HA	1:6:594:THR:HG22	1.97	0.45
1:8:343:GLN:O	1:8:650:ILE:HA	2.16	0.45
1:A:450:THR:HG21	1:G:503:PHE:CZ	2.51	0.45
1:A:556:LEU:O	1:A:559:VAL:HG22	2.17	0.45
1:B:701:GLN:H	1:I:703:THR:HG23	1.81	0.45
1:D:240:VAL:CG1	1:D:686:TRP:HB2	2.47	0.45
1:G:532:ASP:OD1	1:I:384:ASN:ND2	2.43	0.45
1:G:556:LEU:O	1:G:559:VAL:HG22	2.17	0.45
1:I:679:GLN:NE2	1:J:653:THR:HG21	2.31	0.45
1:L:679:GLN:NE2	1:b:653:THR:HG21	2.32	0.45
1:M:352:LEU:HG	1:M:400:PHE:HE2	1.81	0.45
1:M:556:LEU:O	1:M:559:VAL:HG22	2.17	0.45
1:N:679:GLN:NE2	1:m:653:THR:HG21	2.31	0.45
1:S:345:PHE:CZ	1:S:649:LEU:HD12	2.51	0.45
1:S:701:GLN:H	1:T:703:THR:HG23	1.81	0.45
1:T:343:GLN:O	1:T:650:ILE:HA	2.16	0.45
1:T:397:LEU:HD23	1:T:649:LEU:HD13	1.98	0.45
1:X:445:TYR:HE1	1:X:467:GLN:HG3	1.82	0.45
1:X:656:PRO:HD2	1:f:677:THR:HG21	1.98	0.45
1:Z:433:ASP:N	1:Z:433:ASP:OD1	2.50	0.45
1:Z:528:THR:HG23	1:Z:564:GLU:H	1.81	0.45
1:a:345:PHE:CZ	1:a:649:LEU:HD12	2.51	0.45
1:e:528:THR:HG23	1:e:564:GLU:H	1.81	0.45
1:g:240:VAL:CG1	1:g:686:TRP:HB2	2.47	0.45
1:g:298:TRP:HE1	1:g:728:ILE:HG22	1.81	0.45
1:h:352:LEU:HG	1:h:400:PHE:HE2	1.81	0.45
1:h:556:LEU:O	1:h:559:VAL:HG22	2.17	0.45
1:j:240:VAL:CG1	1:j:686:TRP:HB2	2.47	0.45
1:k:240:VAL:CG1	1:k:686:TRP:HB2	2.47	0.45
1:m:296:ARG:NE	1:r:699:GLU:HG2	2.31	0.45
1:m:343:GLN:O	1:m:650:ILE:HA	2.16	0.45
1:m:397:LEU:HD23	1:m:649:LEU:HD13	1.98	0.45
1:o:445:TYR:HE1	1:o:467:GLN:HG3	1.82	0.45
1:p:433:ASP:OD1	1:p:433:ASP:N	2.50	0.45
1:r:345:PHE:CZ	1:r:649:LEU:HD12	2.51	0.45
1:u:528:THR:HG23	1:u:564:GLU:H	1.80	0.45
1:v:556:LEU:O	1:v:559:VAL:HG22	2.17	0.45
1:1:240:VAL:CG1	1:1:686:TRP:HB2	2.47	0.45
1:1:439:LEU:HD21	1:2:278:SER:HB2	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:433:ASP:OD1	1:8:433:ASP:N	2.50	0.45
1:A:679:GLN:NE2	1:E:653:THR:HG21	2.31	0.45
1:B:240:VAL:CG1	1:B:686:TRP:HB2	2.47	0.45
1:C:387:GLN:OE1	1:D:708:LYS:HD2	2.16	0.45
1:C:556:LEU:O	1:C:559:VAL:HG22	2.17	0.45
1:F:397:LEU:HD23	1:F:649:LEU:HD13	1.98	0.45
1:G:679:GLN:NE2	1:W:653:THR:HG21	2.31	0.45
1:H:503:PHE:CZ	1:Y:450:THR:HG21	2.51	0.45
1:O:677:THR:HG21	1:P:656:PRO:HD2	1.99	0.45
1:P:240:VAL:CG1	1:P:686:TRP:HB2	2.47	0.45
1:Q:298:TRP:HE1	1:Q:728:ILE:HG22	1.81	0.45
1:Q:677:THR:HG21	1:S:656:PRO:HD2	1.98	0.45
1:S:343:GLN:O	1:S:650:ILE:HA	2.16	0.45
1:S:699:GLU:HG2	1:T:296:ARG:NE	2.31	0.45
1:V:343:GLN:O	1:V:650:ILE:HA	2.16	0.45
1:V:433:ASP:OD1	1:V:433:ASP:N	2.50	0.45
1:W:352:LEU:HG	1:W:400:PHE:HE2	1.81	0.45
1:X:653:THR:HG21	1:f:679:GLN:NE2	2.31	0.45
1:Z:397:LEU:HD23	1:Z:649:LEU:HD13	1.98	0.45
1:b:679:GLN:NE2	1:o:653:THR:HG21	2.31	0.45
1:f:653:THR:HG21	1:z:679:GLN:NE2	2.32	0.45
1:g:556:LEU:O	1:g:559:VAL:HG22	2.17	0.45
1:j:653:THR:HG21	1:l:679:GLN:NE2	2.31	0.45
1:k:298:TRP:HE1	1:k:728:ILE:HG22	1.81	0.45
1:n:345:PHE:CZ	1:n:649:LEU:HD12	2.51	0.45
1:n:653:THR:HG21	1:r:679:GLN:NE2	2.31	0.45
1:q:503:PHE:CZ	1:s:450:THR:HG21	2.51	0.45
1:t:653:THR:HG21	1:y:679:GLN:NE2	2.31	0.45
1:t:679:GLN:NE2	1:6:653:THR:HG21	2.31	0.45
1:u:703:THR:HG23	1:1:701:GLN:H	1.81	0.45
1:w:397:LEU:HD23	1:w:649:LEU:HD13	1.98	0.45
1:x:556:LEU:O	1:x:559:VAL:HG22	2.17	0.45
1:y:397:LEU:HD23	1:y:649:LEU:HD13	1.98	0.45
1:2:345:PHE:CZ	1:2:649:LEU:HD12	2.51	0.45
1:8:397:LEU:HD23	1:8:649:LEU:HD13	1.98	0.45
1:D:556:LEU:O	1:D:559:VAL:HG22	2.17	0.45
1:G:240:VAL:CG1	1:G:686:TRP:HB2	2.46	0.45
1:I:556:LEU:O	1:I:559:VAL:HG22	2.17	0.45
1:I:582:SER:HA	1:I:594:THR:HG22	1.97	0.45
1:M:445:TYR:HE1	1:M:467:GLN:HG3	1.82	0.45
1:N:532:ASP:OD1	1:P:384:ASN:ND2	2.44	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:384:ASN:ND2	1:n:532:ASP:OD1	2.42	0.45
1:P:679:GLN:NE2	1:Q:653:THR:HG21	2.32	0.45
1:V:345:PHE:CZ	1:V:649:LEU:HD12	2.51	0.45
1:a:298:TRP:HE1	1:a:728:ILE:HG22	1.81	0.45
1:a:445:TYR:HE1	1:a:467:GLN:HG3	1.82	0.45
1:b:345:PHE:CZ	1:b:649:LEU:HD12	2.51	0.45
1:b:556:LEU:O	1:b:559:VAL:HG22	2.17	0.45
1:b:677:THR:HG21	1:o:656:PRO:HD2	1.98	0.45
1:c:528:THR:HG23	1:c:564:GLU:H	1.81	0.45
1:d:445:TYR:HE1	1:d:467:GLN:HG3	1.82	0.45
1:f:345:PHE:CZ	1:f:649:LEU:HD12	2.51	0.45
1:k:556:LEU:O	1:k:559:VAL:HG22	2.17	0.45
1:m:445:TYR:HE1	1:m:467:GLN:HG3	1.82	0.45
1:n:445:TYR:HE1	1:n:467:GLN:HG3	1.82	0.45
1:p:345:PHE:CZ	1:p:649:LEU:HD12	2.51	0.45
1:r:343:GLN:O	1:r:650:ILE:HA	2.16	0.45
1:u:556:LEU:O	1:u:559:VAL:HG22	2.17	0.45
1:v:708:LYS:HD2	1:w:387:GLN:OE1	2.16	0.45
1:x:298:TRP:HE1	1:x:728:ILE:HG22	1.81	0.45
1:z:656:PRO:HD2	1:4:677:THR:HG21	1.98	0.45
1:1:556:LEU:O	1:1:559:VAL:HG22	2.17	0.45
1:2:397:LEU:HD23	1:2:649:LEU:HD13	1.98	0.45
1:3:298:TRP:HE1	1:3:728:ILE:HG22	1.81	0.45
1:5:503:PHE:CZ	1:7:450:THR:HG21	2.51	0.45
1:A:695:ARG:HD3	1:A:699:GLU:OE2	2.18	0.44
1:B:556:LEU:O	1:B:559:VAL:HG22	2.17	0.44
1:H:387:GLN:OE1	1:Z:708:LYS:HD2	2.17	0.44
1:I:352:LEU:HG	1:I:400:PHE:HE2	1.81	0.44
1:I:433:ASP:N	1:I:433:ASP:OD1	2.50	0.44
1:Q:556:LEU:O	1:Q:559:VAL:HG22	2.17	0.44
1:S:679:GLN:NE2	1:d:653:THR:HG21	2.31	0.44
1:T:445:TYR:HE1	1:T:467:GLN:HG3	1.82	0.44
1:W:695:ARG:HD3	1:W:699:GLU:OE2	2.18	0.44
1:X:530:LYS:HG2	1:X:531:ASP:N	2.23	0.44
1:Y:679:GLN:NE2	1:4:653:THR:HG21	2.31	0.44
1:a:556:LEU:O	1:a:559:VAL:HG22	2.17	0.44
1:b:445:TYR:HE1	1:b:467:GLN:HG3	1.82	0.44
1:c:240:VAL:CG1	1:c:686:TRP:HB2	2.46	0.44
1:d:345:PHE:CZ	1:d:649:LEU:HD12	2.51	0.44
1:f:556:LEU:O	1:f:559:VAL:HG22	2.17	0.44
1:h:445:TYR:HE1	1:h:467:GLN:HG3	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:445:TYR:HE1	1:p:467:GLN:HG3	1.82	0.44
1:u:433:ASP:N	1:u:433:ASP:OD1	2.50	0.44
1:u:445:TYR:HE1	1:u:467:GLN:HG3	1.82	0.44
1:u:679:GLN:NE2	1:2:653:THR:HG21	2.31	0.44
1:v:695:ARG:HD3	1:v:699:GLU:OE2	2.18	0.44
1:4:298:TRP:HE1	1:4:728:ILE:HG22	1.81	0.44
1:A:653:THR:HG21	1:B:679:GLN:NE2	2.31	0.44
1:D:387:GLN:OE1	1:E:708:LYS:HD2	2.17	0.44
1:E:296:ARG:NE	1:P:699:GLU:HG2	2.32	0.44
1:E:439:LEU:HD21	1:Q:278:SER:HB2	1.98	0.44
1:I:445:TYR:HE1	1:I:467:GLN:HG3	1.82	0.44
1:K:556:LEU:O	1:K:559:VAL:HG22	2.17	0.44
1:K:653:THR:HG21	1:7:679:GLN:NE2	2.31	0.44
1:K:677:THR:HG21	1:L:656:PRO:HD2	1.98	0.44
1:O:664:THR:H	1:d:373:MET:CE	2.31	0.44
1:Q:695:ARG:HD3	1:Q:699:GLU:OE2	2.18	0.44
1:R:532:ASP:OD1	1:S:384:ASN:ND2	2.43	0.44
1:R:695:ARG:HD3	1:R:699:GLU:OE2	2.18	0.44
1:T:653:THR:HG21	1:i:679:GLN:NE2	2.32	0.44
1:X:345:PHE:CZ	1:X:649:LEU:HD12	2.51	0.44
1:Z:298:TRP:HE1	1:Z:728:ILE:HG22	1.81	0.44
1:f:445:TYR:HE1	1:f:467:GLN:HG3	1.82	0.44
1:g:387:GLN:OE1	1:k:708:LYS:HD2	2.16	0.44
1:h:240:VAL:CG1	1:h:686:TRP:HB2	2.47	0.44
1:q:695:ARG:HD3	1:q:699:GLU:OE2	2.18	0.44
1:w:439:LEU:HD21	1:x:278:SER:HB2	1.98	0.44
1:x:695:ARG:HD3	1:x:699:GLU:OE2	2.17	0.44
1:1:695:ARG:HD3	1:1:699:GLU:OE2	2.18	0.44
1:3:556:LEU:O	1:3:559:VAL:HG22	2.17	0.44
1:5:695:ARG:HD3	1:5:699:GLU:OE2	2.17	0.44
1:6:695:ARG:HD3	1:6:699:GLU:OE2	2.18	0.44
1:8:298:TRP:HE1	1:8:728:ILE:HG22	1.81	0.44
1:B:445:TYR:HE1	1:B:467:GLN:HG3	1.82	0.44
1:B:695:ARG:HD3	1:B:699:GLU:OE2	2.18	0.44
1:F:445:TYR:HE1	1:F:467:GLN:HG3	1.82	0.44
1:G:298:TRP:HE1	1:G:728:ILE:HG22	1.81	0.44
1:G:352:LEU:HG	1:G:400:PHE:HE2	1.81	0.44
1:H:298:TRP:HE1	1:H:728:ILE:HG22	1.81	0.44
1:H:695:ARG:HD3	1:H:699:GLU:OE2	2.17	0.44
1:J:397:LEU:HD23	1:J:649:LEU:HD13	1.98	0.44
1:K:298:TRP:HE1	1:K:728:ILE:HG22	1.81	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:387:GLN:OE1	1:c:708:LYS:HD2	2.16	0.44
1:M:433:ASP:OD1	1:M:433:ASP:N	2.50	0.44
1:M:503:PHE:CZ	1:b:450:THR:HG21	2.51	0.44
1:P:445:TYR:HE1	1:P:467:GLN:HG3	1.82	0.44
1:V:445:TYR:HE1	1:V:467:GLN:HG3	1.82	0.44
1:b:298:TRP:HE1	1:b:728:ILE:HG22	1.81	0.44
1:d:397:LEU:HD23	1:d:649:LEU:HD13	1.98	0.44
1:d:695:ARG:HD3	1:d:699:GLU:OE2	2.18	0.44
1:e:240:VAL:CG1	1:e:686:TRP:HB2	2.46	0.44
1:f:298:TRP:HE1	1:f:728:ILE:HG22	1.81	0.44
1:k:664:THR:H	1:w:373:MET:CE	2.31	0.44
1:l:664:THR:H	1:n:373:MET:CE	2.31	0.44
1:n:397:LEU:HD23	1:n:649:LEU:HD13	1.98	0.44
1:n:695:ARG:HD3	1:n:699:GLU:OE2	2.18	0.44
1:o:345:PHE:CZ	1:o:649:LEU:HD12	2.51	0.44
1:r:397:LEU:HD23	1:r:649:LEU:HD13	1.98	0.44
1:t:240:VAL:CG1	1:t:686:TRP:HB2	2.47	0.44
1:t:352:LEU:HG	1:t:400:PHE:HE2	1.81	0.44
1:t:664:THR:H	1:y:373:MET:CE	2.31	0.44
1:u:352:LEU:HG	1:u:400:PHE:HE2	1.81	0.44
1:y:445:TYR:HE1	1:y:467:GLN:HG3	1.82	0.44
1:1:445:TYR:HE1	1:1:467:GLN:HG3	1.82	0.44
1:2:445:TYR:HE1	1:2:467:GLN:HG3	1.82	0.44
1:4:556:LEU:O	1:4:559:VAL:HG22	2.17	0.44
1:5:387:GLN:OE1	1:8:708:LYS:HD2	2.17	0.44
1:B:298:TRP:HE1	1:B:728:ILE:HG22	1.81	0.44
1:F:373:MET:CE	1:G:664:THR:H	2.31	0.44
1:H:240:VAL:CG1	1:H:686:TRP:HB2	2.47	0.44
1:J:445:TYR:HE1	1:J:467:GLN:HG3	1.82	0.44
1:L:695:ARG:HD3	1:L:699:GLU:OE2	2.18	0.44
1:M:240:VAL:CG1	1:M:686:TRP:HB2	2.47	0.44
1:M:664:THR:H	1:c:373:MET:CE	2.31	0.44
1:P:321:GLN:NE2	1:Q:340:SER:HA	2.32	0.44
1:P:397:LEU:HD23	1:P:649:LEU:HD13	1.98	0.44
1:P:695:ARG:HD3	1:P:699:GLU:OE2	2.18	0.44
1:S:397:LEU:HD23	1:S:649:LEU:HD13	1.98	0.44
1:S:695:ARG:HD3	1:S:699:GLU:OE2	2.18	0.44
1:T:352:LEU:HG	1:T:400:PHE:HE2	1.81	0.44
1:U:556:LEU:O	1:U:559:VAL:HG22	2.17	0.44
1:Z:695:ARG:HD3	1:Z:699:GLU:OE2	2.18	0.44
1:d:556:LEU:O	1:d:559:VAL:HG22	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:450:THR:HG21	1:h:503:PHE:CZ	2.51	0.44
1:f:695:ARG:HD3	1:f:699:GLU:OE2	2.18	0.44
1:h:433:ASP:OD1	1:h:433:ASP:N	2.50	0.44
1:i:397:LEU:HD23	1:i:649:LEU:HD13	1.98	0.44
1:j:397:LEU:HD23	1:j:649:LEU:HD13	1.98	0.44
1:l:656:PRO:HD2	1:n:677:THR:HG21	1.98	0.44
1:m:352:LEU:HG	1:m:400:PHE:HE2	1.81	0.44
1:n:556:LEU:O	1:n:559:VAL:HG22	2.17	0.44
1:o:397:LEU:HD23	1:o:649:LEU:HD13	1.98	0.44
1:t:298:TRP:HE1	1:t:728:ILE:HG22	1.81	0.44
1:5:240:VAL:CG1	1:5:686:TRP:HB2	2.47	0.44
1:6:323:LYS:NZ	1:6:336:ASN:OD1	2.35	0.44
1:7:445:TYR:HE1	1:7:467:GLN:HG3	1.82	0.44
1:C:278:SER:HB2	1:M:439:LEU:HD21	1.98	0.44
1:D:445:TYR:HE1	1:D:467:GLN:HG3	1.82	0.44
1:F:433:ASP:OD1	1:F:433:ASP:N	2.50	0.44
1:G:373:MET:CE	1:W:664:THR:H	2.31	0.44
1:L:556:LEU:O	1:L:559:VAL:HG22	2.17	0.44
1:N:397:LEU:HD23	1:N:649:LEU:HD13	1.98	0.44
1:T:556:LEU:O	1:T:559:VAL:HG22	2.17	0.44
1:U:373:MET:CE	1:e:664:THR:H	2.31	0.44
1:U:433:ASP:N	1:U:433:ASP:OD1	2.50	0.44
1:V:556:LEU:O	1:V:559:VAL:HG22	2.17	0.44
1:W:298:TRP:HE1	1:W:728:ILE:HG22	1.81	0.44
1:X:664:THR:H	1:f:373:MET:CE	2.31	0.44
1:Y:445:TYR:HE1	1:Y:467:GLN:HG3	1.82	0.44
1:b:695:ARG:HD3	1:b:699:GLU:OE2	2.18	0.44
1:c:556:LEU:O	1:c:559:VAL:HG22	2.17	0.44
1:e:373:MET:CE	1:h:664:THR:H	2.31	0.44
1:e:708:LYS:HD2	1:h:387:GLN:OE1	2.16	0.44
1:g:278:SER:HB2	1:h:439:LEU:HD21	1.98	0.44
1:g:433:ASP:OD1	1:g:433:ASP:N	2.50	0.44
1:i:450:THR:HG21	1:j:503:PHE:CZ	2.52	0.44
1:i:703:THR:HG23	1:l:701:GLN:H	1.81	0.44
1:j:445:TYR:HE1	1:j:467:GLN:HG3	1.82	0.44
1:j:695:ARG:HD3	1:j:699:GLU:OE2	2.18	0.44
1:k:445:TYR:HE1	1:k:467:GLN:HG3	1.82	0.44
1:o:530:LYS:HG2	1:o:531:ASP:N	2.23	0.44
1:r:695:ARG:HD3	1:r:699:GLU:OE2	2.18	0.44
1:t:373:MET:CE	1:6:664:THR:H	2.31	0.44
1:y:433:ASP:OD1	1:y:433:ASP:N	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:695:ARG:HD3	1:z:699:GLU:OE2	2.18	0.44
1:6:298:TRP:HE1	1:6:728:ILE:HG22	1.81	0.44
1:8:695:ARG:HD3	1:8:699:GLU:OE2	2.18	0.44
1:D:664:THR:H	1:E:373:MET:CE	2.31	0.44
1:E:695:ARG:HD3	1:E:699:GLU:OE2	2.18	0.44
1:H:373:MET:CE	1:I:664:THR:H	2.31	0.44
1:I:373:MET:CE	1:J:664:THR:H	2.31	0.44
1:J:253:TYR:HB2	1:J:280:PRO:HA	2.00	0.44
1:N:253:TYR:HB2	1:N:280:PRO:HA	2.00	0.44
1:O:656:PRO:HD2	1:d:677:THR:HG21	1.98	0.44
1:O:695:ARG:HD3	1:O:699:GLU:OE2	2.18	0.44
1:Q:433:ASP:N	1:Q:433:ASP:OD1	2.50	0.44
1:X:397:LEU:HD23	1:X:649:LEU:HD13	1.98	0.44
1:Y:695:ARG:HD3	1:Y:699:GLU:OE2	2.18	0.44
1:b:373:MET:CE	1:o:664:THR:H	2.31	0.44
1:c:664:THR:H	1:s:373:MET:CE	2.31	0.44
1:d:437:ASN:HB2	1:l:355:VAL:HB	2.00	0.44
1:e:556:LEU:O	1:e:559:VAL:HG22	2.17	0.44
1:i:253:TYR:HB2	1:i:280:PRO:HA	2.00	0.44
1:l:695:ARG:HD3	1:l:699:GLU:OE2	2.17	0.44
1:m:556:LEU:O	1:m:559:VAL:HG22	2.17	0.44
1:o:439:LEU:HD21	1:p:278:SER:HB2	1.98	0.44
1:r:445:TYR:HE1	1:r:467:GLN:HG3	1.82	0.44
1:r:653:THR:HG21	1:x:679:GLN:NE2	2.31	0.44
1:s:433:ASP:OD1	1:s:433:ASP:N	2.50	0.44
1:s:556:LEU:O	1:s:559:VAL:HG22	2.17	0.44
1:u:373:MET:CE	1:2:664:THR:H	2.31	0.44
1:w:695:ARG:HD3	1:w:699:GLU:OE2	2.17	0.44
1:1:298:TRP:HE1	1:1:728:ILE:HG22	1.81	0.44
1:2:253:TYR:HB2	1:2:280:PRO:HA	2.00	0.44
1:4:695:ARG:HD3	1:4:699:GLU:OE2	2.18	0.44
1:5:298:TRP:HE1	1:5:728:ILE:HG22	1.81	0.44
1:5:397:LEU:HD23	1:5:649:LEU:HD13	1.98	0.44
1:7:556:LEU:O	1:7:559:VAL:HG22	2.17	0.44
1:C:433:ASP:OD1	1:C:433:ASP:N	2.50	0.44
1:E:355:VAL:HB	1:F:437:ASN:HB2	2.00	0.44
1:H:397:LEU:HD23	1:H:649:LEU:HD13	1.98	0.44
1:K:253:TYR:HB2	1:K:280:PRO:HA	2.00	0.44
1:K:695:ARG:HD3	1:K:699:GLU:OE2	2.18	0.44
1:M:708:LYS:HD2	1:N:387:GLN:OE1	2.17	0.44
1:O:355:VAL:HB	1:n:437:ASN:HB2	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:679:GLN:NE2	1:S:653:THR:HG21	2.31	0.44
1:S:677:THR:HG21	1:d:656:PRO:HD2	1.98	0.44
1:V:278:SER:HB2	1:X:439:LEU:HD21	1.98	0.44
1:V:695:ARG:HD3	1:V:699:GLU:OE2	2.18	0.44
1:Y:556:LEU:O	1:Y:559:VAL:HG22	2.17	0.44
1:c:433:ASP:OD1	1:c:433:ASP:N	2.50	0.44
1:g:397:LEU:HD23	1:g:649:LEU:HD13	1.98	0.44
1:l:253:TYR:HB2	1:l:280:PRO:HA	2.00	0.44
1:p:556:LEU:O	1:p:559:VAL:HG22	2.17	0.44
1:t:695:ARG:HD3	1:t:699:GLU:OE2	2.18	0.44
1:u:664:THR:H	1:5:373:MET:CE	2.31	0.44
1:v:653:THR:HG21	1:1:679:GLN:NE2	2.32	0.44
1:x:433:ASP:N	1:x:433:ASP:OD1	2.50	0.44
1:z:445:TYR:HE1	1:z:467:GLN:HG3	1.82	0.44
1:z:556:LEU:O	1:z:559:VAL:HG22	2.17	0.44
1:2:373:MET:CE	1:3:664:THR:H	2.31	0.44
1:4:253:TYR:HB2	1:4:280:PRO:HA	2.00	0.44
1:7:695:ARG:HD3	1:7:699:GLU:OE2	2.18	0.44
1:C:397:LEU:HD23	1:C:649:LEU:HD13	1.98	0.44
1:C:437:ASN:HB2	1:b:355:VAL:HB	2.00	0.44
1:C:532:ASP:OD1	1:b:384:ASN:ND2	2.43	0.44
1:G:695:ARG:HD3	1:G:699:GLU:OE2	2.18	0.44
1:H:445:TYR:HE1	1:H:467:GLN:HG3	1.82	0.44
1:J:373:MET:CE	1:a:664:THR:H	2.31	0.44
1:K:664:THR:H	1:7:373:MET:CE	2.31	0.44
1:N:695:ARG:HD3	1:N:699:GLU:OE2	2.18	0.44
1:O:253:TYR:HB2	1:O:280:PRO:HA	2.00	0.44
1:V:253:TYR:HB2	1:V:280:PRO:HA	2.00	0.44
1:X:695:ARG:HD3	1:X:699:GLU:OE2	2.18	0.44
1:Y:373:MET:CE	1:4:664:THR:H	2.31	0.44
1:e:445:TYR:HE1	1:e:467:GLN:HG3	1.82	0.44
1:f:355:VAL:HB	1:g:437:ASN:HB2	2.00	0.44
1:f:384:ASN:ND2	1:g:532:ASP:OD1	2.43	0.44
1:g:445:TYR:HE1	1:g:467:GLN:HG3	1.82	0.44
1:i:695:ARG:HD3	1:i:699:GLU:OE2	2.18	0.44
1:m:373:MET:CE	1:s:664:THR:H	2.31	0.44
1:n:656:PRO:HD2	1:r:677:THR:HG21	1.98	0.44
1:o:695:ARG:HD3	1:o:699:GLU:OE2	2.18	0.44
1:p:253:TYR:HB2	1:p:280:PRO:HA	2.00	0.44
1:p:695:ARG:HD3	1:p:699:GLU:OE2	2.18	0.44
1:7:253:TYR:HB2	1:7:280:PRO:HA	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:VAL:HB	1:I:437:ASN:HB2	2.00	0.44
1:C:445:TYR:HE1	1:C:467:GLN:HG3	1.82	0.44
1:D:433:ASP:N	1:D:433:ASP:OD1	2.50	0.44
1:J:298:TRP:HE1	1:J:728:ILE:HG22	1.81	0.44
1:K:373:MET:CE	1:L:664:THR:H	2.31	0.44
1:L:445:TYR:HE1	1:L:467:GLN:HG3	1.82	0.44
1:N:703:THR:HG23	1:O:701:GLN:H	1.81	0.44
1:O:445:TYR:HE1	1:O:467:GLN:HG3	1.82	0.44
1:S:253:TYR:HB2	1:S:280:PRO:HA	2.00	0.44
1:S:445:TYR:HE1	1:S:467:GLN:HG3	1.82	0.44
1:T:373:MET:CE	1:U:664:THR:H	2.31	0.44
1:V:397:LEU:HD23	1:V:649:LEU:HD13	1.98	0.44
1:X:253:TYR:HB2	1:X:280:PRO:HA	2.00	0.44
1:Y:253:TYR:HB2	1:Y:280:PRO:HA	2.00	0.44
1:Z:664:THR:H	1:a:373:MET:CE	2.31	0.44
1:c:253:TYR:HB2	1:c:280:PRO:HA	2.00	0.44
1:e:433:ASP:N	1:e:433:ASP:OD1	2.50	0.44
1:l:445:TYR:HE1	1:l:467:GLN:HG3	1.83	0.44
1:o:253:TYR:HB2	1:o:280:PRO:HA	2.00	0.44
1:o:373:MET:CE	1:7:664:THR:H	2.31	0.44
1:p:397:LEU:HD23	1:p:649:LEU:HD13	1.98	0.44
1:3:373:MET:CE	1:8:664:THR:H	2.31	0.44
1:5:445:TYR:HE1	1:5:467:GLN:HG3	1.82	0.44
1:6:433:ASP:N	1:6:433:ASP:OD1	2.50	0.44
1:G:253:TYR:HB2	1:G:280:PRO:HA	2.00	0.43
1:P:556:LEU:O	1:P:559:VAL:HG22	2.17	0.43
1:Q:253:TYR:HB2	1:Q:280:PRO:HA	2.00	0.43
1:V:664:THR:H	1:W:373:MET:CE	2.31	0.43
1:X:373:MET:CE	1:Y:664:THR:H	2.31	0.43
1:Z:355:VAL:HB	1:3:437:ASN:HB2	2.00	0.43
1:c:445:TYR:HE1	1:c:467:GLN:HG3	1.82	0.43
1:e:253:TYR:HB2	1:e:280:PRO:HA	2.00	0.43
1:j:253:TYR:HB2	1:j:280:PRO:HA	2.00	0.43
1:j:556:LEU:O	1:j:559:VAL:HG22	2.17	0.43
1:s:695:ARG:HD3	1:s:699:GLU:OE2	2.18	0.43
1:t:253:TYR:HB2	1:t:280:PRO:HA	2.00	0.43
1:u:437:ASN:HB2	1:v:355:VAL:HB	2.00	0.43
1:w:355:VAL:HB	1:y:437:ASN:HB2	2.00	0.43
1:z:433:ASP:N	1:z:433:ASP:OD1	2.50	0.43
1:z:664:THR:H	1:4:373:MET:CE	2.31	0.43
1:E:445:TYR:HE1	1:E:467:GLN:HG3	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:450:THR:HG21	1:P:503:PHE:CZ	2.53	0.43
1:P:253:TYR:HB2	1:P:280:PRO:HA	2.00	0.43
1:R:253:TYR:HB2	1:R:280:PRO:HA	2.00	0.43
1:U:695:ARG:HD3	1:U:699:GLU:OE2	2.18	0.43
1:V:355:VAL:HB	1:X:437:ASN:HB2	2.01	0.43
1:W:437:ASN:HB2	1:Y:355:VAL:HB	2.00	0.43
1:a:437:ASN:HB2	1:8:355:VAL:HB	2.00	0.43
1:d:253:TYR:HB2	1:d:280:PRO:HA	2.00	0.43
1:k:433:ASP:OD1	1:k:433:ASP:N	2.50	0.43
1:n:253:TYR:HB2	1:n:280:PRO:HA	2.00	0.43
1:o:437:ASN:HB2	1:p:355:VAL:HB	2.01	0.43
1:q:253:TYR:HB2	1:q:280:PRO:HA	2.00	0.43
1:r:253:TYR:HB2	1:r:280:PRO:HA	2.00	0.43
1:x:253:TYR:HB2	1:x:280:PRO:HA	2.00	0.43
1:2:433:ASP:OD1	1:2:433:ASP:N	2.50	0.43
1:3:695:ARG:HD3	1:3:699:GLU:OE2	2.18	0.43
1:6:445:TYR:HE1	1:6:467:GLN:HG3	1.82	0.43
1:A:253:TYR:HB2	1:A:280:PRO:HA	2.00	0.43
1:F:564:GLU:OE2	1:F:614:TYR:OH	2.15	0.43
1:H:664:THR:H	1:Z:373:MET:CE	2.31	0.43
1:L:433:ASP:N	1:L:433:ASP:OD1	2.50	0.43
1:M:373:MET:CE	1:N:664:THR:H	2.31	0.43
1:R:664:THR:H	1:V:373:MET:CE	2.31	0.43
1:U:253:TYR:HB2	1:U:280:PRO:HA	2.00	0.43
1:W:445:TYR:HE1	1:W:467:GLN:HG3	1.82	0.43
1:g:253:TYR:HB2	1:g:280:PRO:HA	2.00	0.43
1:g:695:ARG:HD3	1:g:699:GLU:OE2	2.18	0.43
1:k:695:ARG:HD3	1:k:699:GLU:OE2	2.18	0.43
1:p:664:THR:H	1:6:373:MET:CE	2.31	0.43
1:s:445:TYR:HE1	1:s:467:GLN:HG3	1.82	0.43
1:v:253:TYR:HB2	1:v:280:PRO:HA	2.00	0.43
1:w:445:TYR:HE1	1:w:467:GLN:HG3	1.82	0.43
1:2:298:TRP:HE1	1:2:728:ILE:HG22	1.81	0.43
1:5:355:VAL:HB	1:7:437:ASN:HB2	2.01	0.43
1:6:253:TYR:HB2	1:6:280:PRO:HA	2.00	0.43
1:6:437:ASN:HB2	1:7:355:VAL:HB	2.00	0.43
1:A:373:MET:CE	1:E:664:THR:H	2.31	0.43
1:B:664:THR:H	1:C:373:MET:CE	2.31	0.43
1:C:253:TYR:HB2	1:C:280:PRO:HA	2.00	0.43
1:C:528:THR:HG21	1:C:563:ASN:HA	2.01	0.43
1:D:695:ARG:HD3	1:D:699:GLU:OE2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:253:TYR:HB2	1:F:280:PRO:HA	2.00	0.43
1:H:253:TYR:HB2	1:H:280:PRO:HA	2.00	0.43
1:J:433:ASP:OD1	1:J:433:ASP:N	2.50	0.43
1:K:355:VAL:HB	1:8:437:ASN:HB2	2.01	0.43
1:K:437:ASN:HB2	1:a:355:VAL:HB	2.00	0.43
1:M:313:LEU:HB3	1:M:415:TYR:HB3	2.01	0.43
1:Q:445:TYR:HE1	1:Q:467:GLN:HG3	1.82	0.43
1:W:253:TYR:HB2	1:W:280:PRO:HA	2.00	0.43
1:a:695:ARG:HD3	1:a:699:GLU:OE2	2.18	0.43
1:f:437:ASN:HB2	1:h:355:VAL:HB	2.00	0.43
1:h:253:TYR:HB2	1:h:280:PRO:HA	2.00	0.43
1:h:313:LEU:HB3	1:h:415:TYR:HB3	2.01	0.43
1:j:373:MET:CE	1:x:664:THR:H	2.31	0.43
1:p:373:MET:CE	1:q:664:THR:H	2.31	0.43
1:s:253:TYR:HB2	1:s:280:PRO:HA	2.00	0.43
1:u:695:ARG:HD3	1:u:699:GLU:OE2	2.17	0.43
1:3:355:VAL:HB	1:4:437:ASN:HB2	2.00	0.43
1:B:253:TYR:HB2	1:B:280:PRO:HA	2.00	0.43
1:C:695:ARG:HD3	1:C:699:GLU:OE2	2.18	0.43
1:H:355:VAL:HB	1:Y:437:ASN:HB2	2.01	0.43
1:H:437:ASN:HB2	1:W:355:VAL:HB	2.00	0.43
1:I:313:LEU:HB3	1:I:415:TYR:HB3	2.01	0.43
1:J:437:ASN:HB2	1:L:355:VAL:HB	2.01	0.43
1:J:695:ARG:HD3	1:J:699:GLU:OE2	2.18	0.43
1:L:373:MET:CE	1:b:664:THR:H	2.31	0.43
1:M:253:TYR:HB2	1:M:280:PRO:HA	2.00	0.43
1:M:355:VAL:HB	1:b:437:ASN:HB2	2.00	0.43
1:M:528:THR:HG21	1:M:563:ASN:HA	2.01	0.43
1:N:445:TYR:HE1	1:N:467:GLN:HG3	1.82	0.43
1:U:445:TYR:HE1	1:U:467:GLN:HG3	1.82	0.43
1:X:431:SER:HA	1:X:569:PRO:HB3	2.01	0.43
1:Z:437:ASN:HB2	1:4:355:VAL:HB	2.01	0.43
1:d:528:THR:HG21	1:d:563:ASN:HA	2.01	0.43
1:e:528:THR:HG21	1:e:563:ASN:HA	2.01	0.43
1:g:664:THR:H	1:k:373:MET:CE	2.31	0.43
1:h:528:THR:HG21	1:h:563:ASN:HA	2.01	0.43
1:j:532:ASP:OD1	1:k:384:ASN:ND2	2.43	0.43
1:n:528:THR:HG21	1:n:563:ASN:HA	2.01	0.43
1:n:664:THR:H	1:r:373:MET:CE	2.31	0.43
1:o:431:SER:HA	1:o:569:PRO:HB3	2.01	0.43
1:u:313:LEU:HB3	1:u:415:TYR:HB3	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:433:ASP:OD1	1:v:433:ASP:N	2.50	0.43
1:y:253:TYR:HB2	1:y:280:PRO:HA	2.00	0.43
1:1:253:TYR:HB2	1:1:280:PRO:HA	2.00	0.43
1:4:431:SER:HA	1:4:569:PRO:HB3	2.01	0.43
1:5:253:TYR:HB2	1:5:280:PRO:HA	2.00	0.43
1:5:664:THR:H	1:8:373:MET:CE	2.31	0.43
1:A:433:ASP:OD1	1:A:433:ASP:N	2.50	0.43
1:F:313:LEU:HB3	1:F:415:TYR:HB3	2.01	0.43
1:H:528:THR:HG21	1:H:563:ASN:HA	2.01	0.43
1:I:695:ARG:HD3	1:I:699:GLU:OE2	2.18	0.43
1:K:431:SER:HA	1:K:569:PRO:HB3	2.01	0.43
1:M:695:ARG:HD3	1:M:699:GLU:OE2	2.18	0.43
1:O:313:LEU:HB3	1:O:415:TYR:HB3	2.01	0.43
1:Q:373:MET:CE	1:S:664:THR:H	2.31	0.43
1:R:355:VAL:HB	1:U:437:ASN:HB2	2.01	0.43
1:R:445:TYR:HE1	1:R:467:GLN:HG3	1.82	0.43
1:a:253:TYR:HB2	1:a:280:PRO:HA	2.00	0.43
1:c:528:THR:HG21	1:c:563:ASN:HA	2.01	0.43
1:g:373:MET:CE	1:1:664:THR:H	2.31	0.43
1:h:695:ARG:HD3	1:h:699:GLU:OE2	2.18	0.43
1:i:445:TYR:HE1	1:i:467:GLN:HG3	1.82	0.43
1:j:313:LEU:HB3	1:j:415:TYR:HB3	2.01	0.43
1:j:664:THR:H	1:l:373:MET:CE	2.31	0.43
1:l:313:LEU:HB3	1:l:415:TYR:HB3	2.01	0.43
1:m:695:ARG:HD3	1:m:699:GLU:OE2	2.18	0.43
1:r:431:SER:HA	1:r:569:PRO:HB3	2.01	0.43
1:r:664:THR:H	1:x:373:MET:CE	2.31	0.43
1:s:528:THR:HG21	1:s:563:ASN:HA	2.01	0.43
1:v:373:MET:CE	1:w:664:THR:H	2.31	0.43
1:x:445:TYR:HE1	1:x:467:GLN:HG3	1.82	0.43
1:z:313:LEU:HB3	1:z:415:TYR:HB3	2.01	0.43
1:z:355:VAL:HB	1:2:437:ASN:HB2	2.01	0.43
1:2:695:ARG:HD3	1:2:699:GLU:OE2	2.18	0.43
1:3:253:TYR:HB2	1:3:280:PRO:HA	2.00	0.43
1:5:437:ASN:HB2	1:6:355:VAL:HB	2.00	0.43
1:6:313:LEU:HB3	1:6:415:TYR:HB3	2.01	0.43
1:D:552:ASN:O	1:P:466:TYR:HA	2.18	0.43
1:K:433:ASP:OD1	1:K:433:ASP:N	2.50	0.43
1:L:313:LEU:HB3	1:L:415:TYR:HB3	2.01	0.43
1:L:431:SER:HA	1:L:569:PRO:HB3	2.01	0.43
1:M:431:SER:HA	1:M:569:PRO:HB3	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:373:MET:CE	1:m:664:THR:H	2.32	0.43
1:P:313:LEU:HB3	1:P:415:TYR:HB3	2.01	0.43
1:S:373:MET:CE	1:d:664:THR:H	2.31	0.43
1:S:431:SER:HA	1:S:569:PRO:HB3	2.01	0.43
1:T:695:ARG:HD3	1:T:699:GLU:OE2	2.18	0.43
1:U:528:THR:HG21	1:U:563:ASN:HA	2.01	0.43
1:W:313:LEU:HB3	1:W:415:TYR:HB3	2.01	0.43
1:a:313:LEU:HB3	1:a:415:TYR:HB3	2.01	0.43
1:f:528:THR:HG21	1:f:563:ASN:HA	2.01	0.43
1:f:664:THR:H	1:z:373:MET:CE	2.31	0.43
1:g:528:THR:HG21	1:g:563:ASN:HA	2.01	0.43
1:j:431:SER:HA	1:j:569:PRO:HB3	2.01	0.43
1:j:437:ASN:HB2	1:k:355:VAL:HB	2.00	0.43
1:k:528:THR:HG21	1:k:563:ASN:HA	2.01	0.43
1:l:433:ASP:N	1:l:433:ASP:OD1	2.50	0.43
1:m:528:THR:HG21	1:m:563:ASN:HA	2.01	0.43
1:o:528:THR:HG21	1:o:563:ASN:HA	2.01	0.43
1:q:355:VAL:HB	1:s:437:ASN:HB2	2.01	0.43
1:q:445:TYR:HE1	1:q:467:GLN:HG3	1.82	0.43
1:y:313:LEU:HB3	1:y:415:TYR:HB3	2.01	0.43
1:z:431:SER:HA	1:z:569:PRO:HB3	2.01	0.43
1:3:431:SER:HA	1:3:569:PRO:HB3	2.01	0.43
1:5:528:THR:HG21	1:5:563:ASN:HA	2.01	0.43
1:6:528:THR:HG21	1:6:563:ASN:HA	2.01	0.43
1:B:433:ASP:N	1:B:433:ASP:OD1	2.50	0.43
1:F:664:THR:H	1:R:373:MET:CE	2.31	0.43
1:G:528:THR:HG21	1:G:563:ASN:HA	2.01	0.43
1:L:528:THR:HG21	1:L:563:ASN:HA	2.01	0.43
1:O:433:ASP:N	1:O:433:ASP:OD1	2.50	0.43
1:P:431:SER:HA	1:P:569:PRO:HB3	2.01	0.43
1:Q:313:LEU:HB3	1:Q:415:TYR:HB3	2.01	0.43
1:Q:431:SER:HA	1:Q:569:PRO:HB3	2.01	0.43
1:T:528:THR:HG21	1:T:563:ASN:HA	2.01	0.43
1:W:431:SER:HA	1:W:569:PRO:HB3	2.01	0.43
1:W:528:THR:HG21	1:W:563:ASN:HA	2.01	0.43
1:X:528:THR:HG21	1:X:563:ASN:HA	2.01	0.43
1:a:431:SER:HA	1:a:569:PRO:HB3	2.01	0.43
1:b:433:ASP:N	1:b:433:ASP:OD1	2.50	0.43
1:b:528:THR:HG21	1:b:563:ASN:HA	2.01	0.43
1:c:699:GLU:HB2	1:c:701:GLN:HE21	1.84	0.43
1:e:699:GLU:HB2	1:e:701:GLN:HE21	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:699:GLU:HB2	1:f:701:GLN:HE21	1.84	0.43
1:h:431:SER:HA	1:h:569:PRO:HB3	2.01	0.43
1:j:433:ASP:N	1:j:433:ASP:OD1	2.50	0.43
1:k:253:TYR:HB2	1:k:280:PRO:HA	2.00	0.43
1:m:437:ASN:HB2	1:n:355:VAL:HB	2.00	0.43
1:q:373:MET:CE	1:y:664:THR:H	2.31	0.43
1:v:664:THR:H	1:1:373:MET:CE	2.31	0.43
1:x:431:SER:HA	1:x:569:PRO:HB3	2.01	0.43
1:y:695:ARG:HD3	1:y:699:GLU:OE2	2.18	0.43
1:3:313:LEU:HB3	1:3:415:TYR:HB3	2.01	0.43
1:8:431:SER:HA	1:8:569:PRO:HB3	2.01	0.43
1:A:437:ASN:HB2	1:G:355:VAL:HB	2.00	0.43
1:D:253:TYR:HB2	1:D:280:PRO:HA	2.00	0.43
1:D:437:ASN:HB2	1:N:355:VAL:HB	2.00	0.43
1:D:528:THR:HG21	1:D:563:ASN:HA	2.01	0.43
1:F:695:ARG:HD3	1:F:699:GLU:OE2	2.18	0.43
1:T:437:ASN:HB2	1:d:355:VAL:HB	2.00	0.43
1:T:664:THR:H	1:i:373:MET:CE	2.32	0.43
1:V:431:SER:HA	1:V:569:PRO:HB3	2.01	0.43
1:Y:431:SER:HA	1:Y:569:PRO:HB3	2.01	0.43
1:Z:431:SER:HA	1:Z:569:PRO:HB3	2.01	0.43
1:b:699:GLU:HB2	1:b:701:GLN:HE21	1.84	0.43
1:d:532:ASP:OD1	1:l:384:ASN:ND2	2.43	0.43
1:p:431:SER:HA	1:p:569:PRO:HB3	2.01	0.43
1:q:532:ASP:OD1	1:r:384:ASN:ND2	2.43	0.43
1:t:528:THR:HG21	1:t:563:ASN:HA	2.01	0.43
1:v:431:SER:HA	1:v:569:PRO:HB3	2.01	0.43
1:x:313:LEU:HB3	1:x:415:TYR:HB3	2.01	0.43
1:z:528:THR:HG21	1:z:563:ASN:HA	2.01	0.43
1:4:433:ASP:N	1:4:433:ASP:OD1	2.50	0.43
1:6:431:SER:HA	1:6:569:PRO:HB3	2.01	0.43
1:7:431:SER:HA	1:7:569:PRO:HB3	2.01	0.43
1:A:431:SER:HA	1:A:569:PRO:HB3	2.01	0.43
1:I:699:GLU:HB2	1:I:701:GLN:HE21	1.84	0.43
1:K:528:THR:HG21	1:K:563:ASN:HA	2.01	0.43
1:X:313:LEU:HB3	1:X:415:TYR:HB3	2.01	0.43
1:Y:528:THR:HG21	1:Y:563:ASN:HA	2.01	0.43
1:c:323:LYS:NZ	1:c:336:ASN:OD1	2.35	0.43
1:d:699:GLU:HB2	1:d:701:GLN:HE21	1.84	0.43
1:e:323:LYS:NZ	1:e:336:ASN:OD1	2.35	0.43
1:e:695:ARG:HD3	1:e:699:GLU:OE2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:433:ASP:OD1	1:f:433:ASP:N	2.50	0.43
1:h:373:MET:CE	1:i:664:THR:H	2.32	0.43
1:m:532:ASP:OD1	1:n:384:ASN:ND2	2.43	0.43
1:n:699:GLU:HB2	1:n:701:GLN:HE21	1.84	0.43
1:t:355:VAL:HB	1:v:437:ASN:HB2	2.00	0.43
1:u:699:GLU:HB2	1:u:701:GLN:HE21	1.84	0.43
1:w:699:GLU:HB2	1:w:701:GLN:HE21	1.84	0.43
1:x:528:THR:HG21	1:x:563:ASN:HA	2.01	0.43
1:1:433:ASP:N	1:1:433:ASP:OD1	2.50	0.43
1:5:699:GLU:HB2	1:5:701:GLN:HE21	1.84	0.43
1:C:664:THR:H	1:D:373:MET:CE	2.31	0.42
1:D:355:VAL:HB	1:P:437:ASN:HB2	2.00	0.42
1:E:313:LEU:HB3	1:E:415:TYR:HB3	2.01	0.42
1:E:528:THR:HG21	1:E:563:ASN:HA	2.01	0.42
1:E:699:GLU:HB2	1:E:701:GLN:HE21	1.84	0.42
1:H:699:GLU:HB2	1:H:701:GLN:HE21	1.84	0.42
1:L:699:GLU:HB2	1:L:701:GLN:HE21	1.84	0.42
1:P:433:ASP:OD1	1:P:433:ASP:N	2.50	0.42
1:R:313:LEU:HB3	1:R:415:TYR:HB3	2.01	0.42
1:V:437:ASN:HB2	1:e:355:VAL:HB	2.00	0.42
1:Y:313:LEU:HB3	1:Y:415:TYR:HB3	2.01	0.42
1:b:253:TYR:HB2	1:b:280:PRO:HA	2.00	0.42
1:c:355:VAL:HB	1:p:437:ASN:HB2	2.00	0.42
1:c:695:ARG:HD3	1:c:699:GLU:OE2	2.18	0.42
1:f:253:TYR:HB2	1:f:280:PRO:HA	2.00	0.42
1:m:253:TYR:HB2	1:m:280:PRO:HA	2.00	0.42
1:o:313:LEU:HB3	1:o:415:TYR:HB3	2.01	0.42
1:3:445:TYR:HE1	1:3:467:GLN:HG3	1.82	0.42
1:4:528:THR:HG21	1:4:563:ASN:HA	2.01	0.42
1:7:528:THR:HG21	1:7:563:ASN:HA	2.01	0.42
1:E:253:TYR:HB2	1:E:280:PRO:HA	2.00	0.42
1:F:355:VAL:HB	1:Q:437:ASN:HB2	2.00	0.42
1:F:404:MET:C	1:F:405:LEU:HD12	2.45	0.42
1:H:433:ASP:OD1	1:H:433:ASP:N	2.50	0.42
1:I:431:SER:HA	1:I:569:PRO:HB3	2.01	0.42
1:N:585:LEU:HD23	1:P:490:ARG:NH1	2.34	0.42
1:Q:528:THR:HG21	1:Q:563:ASN:HA	2.01	0.42
1:T:699:GLU:HB2	1:T:701:GLN:HE21	1.84	0.42
1:V:528:THR:HG21	1:V:563:ASN:HA	2.01	0.42
1:X:433:ASP:OD1	1:X:433:ASP:N	2.50	0.42
1:i:323:LYS:NZ	1:i:336:ASN:OD1	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:528:THR:HG21	1:p:563:ASN:HA	2.01	0.42
1:q:313:LEU:HB3	1:q:415:TYR:HB3	2.01	0.42
1:u:431:SER:HA	1:u:569:PRO:HB3	2.01	0.42
1:v:699:GLU:HB2	1:v:701:GLN:HE21	1.84	0.42
1:w:253:TYR:HB2	1:w:280:PRO:HA	2.00	0.42
1:w:313:LEU:HB3	1:w:415:TYR:HB3	2.01	0.42
1:z:699:GLU:HB2	1:z:701:GLN:HE21	1.84	0.42
1:5:431:SER:HA	1:5:569:PRO:HB3	2.01	0.42
1:7:313:LEU:HB3	1:7:415:TYR:HB3	2.01	0.42
1:B:431:SER:HA	1:B:569:PRO:HB3	2.01	0.42
1:C:699:GLU:HB2	1:C:701:GLN:HE21	1.84	0.42
1:D:601:GLY:HA3	1:P:601:GLY:HA3	2.01	0.42
1:E:431:SER:HA	1:E:569:PRO:HB3	2.01	0.42
1:H:431:SER:HA	1:H:569:PRO:HB3	2.01	0.42
1:K:445:TYR:HE1	1:K:467:GLN:HG3	1.82	0.42
1:L:253:TYR:HB2	1:L:280:PRO:HA	2.00	0.42
1:R:437:ASN:HB2	1:S:355:VAL:HB	2.01	0.42
1:T:253:TYR:HB2	1:T:280:PRO:HA	2.00	0.42
1:U:404:MET:C	1:U:405:LEU:HD12	2.45	0.42
1:V:313:LEU:HB3	1:V:415:TYR:HB3	2.01	0.42
1:Z:253:TYR:HB2	1:Z:280:PRO:HA	2.00	0.42
1:Z:528:THR:HG21	1:Z:563:ASN:HA	2.01	0.42
1:g:699:GLU:HB2	1:g:701:GLN:HE21	1.84	0.42
1:i:431:SER:HA	1:i:569:PRO:HB3	2.01	0.42
1:i:528:THR:HG21	1:i:563:ASN:HA	2.01	0.42
1:l:404:MET:C	1:l:405:LEU:HD12	2.45	0.42
1:l:699:GLU:HB2	1:l:701:GLN:HE21	1.84	0.42
1:m:699:GLU:HB2	1:m:701:GLN:HE21	1.84	0.42
1:n:433:ASP:OD1	1:n:433:ASP:N	2.50	0.42
1:p:313:LEU:HB3	1:p:415:TYR:HB3	2.01	0.42
1:q:437:ASN:HB2	1:r:355:VAL:HB	2.01	0.42
1:t:437:ASN:HB2	1:u:355:VAL:HB	2.00	0.42
1:w:431:SER:HA	1:w:569:PRO:HB3	2.01	0.42
1:w:528:THR:HG21	1:w:563:ASN:HA	2.01	0.42
1:y:404:MET:C	1:y:405:LEU:HD12	2.45	0.42
1:1:532:ASP:OD1	1:2:384:ASN:ND2	2.43	0.42
1:5:612:ASP:OD1	1:5:730:THR:OG1	2.34	0.42
1:7:699:GLU:HB2	1:7:701:GLN:HE21	1.84	0.42
1:8:253:TYR:HB2	1:8:280:PRO:HA	2.00	0.42
1:8:528:THR:HG21	1:8:563:ASN:HA	2.01	0.42
1:A:699:GLU:HB2	1:A:701:GLN:HE21	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:532:ASP:OD1	1:J:384:ASN:ND2	2.43	0.42
1:G:545:PHE:HB2	1:G:560:LEU:HB2	2.02	0.42
1:I:253:TYR:HB2	1:I:280:PRO:HA	2.00	0.42
1:I:528:THR:HG21	1:I:563:ASN:HA	2.01	0.42
1:I:545:PHE:HB2	1:I:560:LEU:HB2	2.02	0.42
1:N:431:SER:HA	1:N:569:PRO:HB3	2.01	0.42
1:N:439:LEU:HD21	1:P:278:SER:HB2	2.00	0.42
1:N:699:GLU:HB2	1:N:701:GLN:HE21	1.84	0.42
1:O:699:GLU:HB2	1:O:701:GLN:HE21	1.84	0.42
1:T:355:VAL:HB	1:l:437:ASN:HB2	2.01	0.42
1:T:532:ASP:OD1	1:d:384:ASN:ND2	2.43	0.42
1:W:404:MET:C	1:W:405:LEU:HD12	2.45	0.42
1:W:545:PHE:HB2	1:W:560:LEU:HB2	2.02	0.42
1:Y:699:GLU:HB2	1:Y:701:GLN:HE21	1.84	0.42
1:b:313:LEU:HB3	1:b:415:TYR:HB3	2.01	0.42
1:b:404:MET:C	1:b:405:LEU:HD12	2.45	0.42
1:d:433:ASP:N	1:d:433:ASP:OD1	2.50	0.42
1:f:404:MET:C	1:f:405:LEU:HD12	2.45	0.42
1:o:433:ASP:OD1	1:o:433:ASP:N	2.50	0.42
1:s:404:MET:C	1:s:405:LEU:HD12	2.45	0.42
1:t:545:PHE:HB2	1:t:560:LEU:HB2	2.02	0.42
1:u:528:THR:HG21	1:u:563:ASN:HA	2.01	0.42
1:u:545:PHE:HB2	1:u:560:LEU:HB2	2.02	0.42
1:x:699:GLU:HB2	1:x:701:GLN:HE21	1.84	0.42
1:z:253:TYR:HB2	1:z:280:PRO:HA	2.00	0.42
1:1:431:SER:HA	1:1:569:PRO:HB3	2.01	0.42
1:4:445:TYR:HE1	1:4:467:GLN:HG3	1.82	0.42
1:4:545:PHE:HB2	1:4:560:LEU:HB2	2.02	0.42
1:5:433:ASP:OD1	1:5:433:ASP:N	2.50	0.42
1:6:404:MET:C	1:6:405:LEU:HD12	2.45	0.42
1:6:545:PHE:HB2	1:6:560:LEU:HB2	2.02	0.42
1:B:313:LEU:HB3	1:B:415:TYR:HB3	2.01	0.42
1:G:437:ASN:HB2	1:I:355:VAL:HB	2.01	0.42
1:J:290:HIS:CD2	1:J:366:PRO:HG3	2.55	0.42
1:K:545:PHE:HB2	1:K:560:LEU:HB2	2.02	0.42
1:L:404:MET:C	1:L:405:LEU:HD12	2.45	0.42
1:N:528:THR:HG21	1:N:563:ASN:HA	2.01	0.42
1:O:404:MET:C	1:O:405:LEU:HD12	2.45	0.42
1:O:437:ASN:HB2	1:m:355:VAL:HB	2.01	0.42
1:U:313:LEU:HB3	1:U:415:TYR:HB3	2.01	0.42
1:Z:313:LEU:HB3	1:Z:415:TYR:HB3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:313:LEU:HB3	1:f:415:TYR:HB3	2.01	0.42
1:r:545:PHE:HB2	1:r:560:LEU:HB2	2.02	0.42
1:s:313:LEU:HB3	1:s:415:TYR:HB3	2.01	0.42
1:t:433:ASP:OD1	1:t:433:ASP:N	2.50	0.42
1:u:253:TYR:HB2	1:u:280:PRO:HA	2.00	0.42
1:x:437:ASN:HB2	1:y:355:VAL:HB	2.00	0.42
1:z:404:MET:C	1:z:405:LEU:HD12	2.45	0.42
1:1:313:LEU:HB3	1:1:415:TYR:HB3	2.01	0.42
1:2:290:HIS:CD2	1:2:366:PRO:HG3	2.55	0.42
1:A:664:THR:H	1:B:373:MET:CE	2.32	0.42
1:B:290:HIS:CD2	1:B:366:PRO:HG3	2.55	0.42
1:C:487:ARG:NH2	1:C:598:ASN:OD1	2.53	0.42
1:D:384:ASN:ND2	1:P:532:ASP:OD1	2.44	0.42
1:E:275:PHE:HB3	1:E:383:ASN:HB3	2.02	0.42
1:H:404:MET:C	1:H:405:LEU:HD12	2.45	0.42
1:M:404:MET:C	1:M:405:LEU:HD12	2.45	0.42
1:N:323:LYS:NZ	1:N:336:ASN:OD1	2.35	0.42
1:O:528:THR:HG21	1:O:563:ASN:HA	2.01	0.42
1:Q:290:HIS:CD2	1:Q:366:PRO:HG3	2.55	0.42
1:Q:699:GLU:HB2	1:Q:701:GLN:HE21	1.84	0.42
1:S:437:ASN:HB2	1:U:355:VAL:HB	2.01	0.42
1:S:545:PHE:HB2	1:S:560:LEU:HB2	2.02	0.42
1:U:290:HIS:CD2	1:U:366:PRO:HG3	2.55	0.42
1:Z:404:MET:C	1:Z:405:LEU:HD12	2.45	0.42
1:Z:445:TYR:HE1	1:Z:467:GLN:HG3	1.82	0.42
1:b:290:HIS:CD2	1:b:366:PRO:HG3	2.55	0.42
1:b:431:SER:HA	1:b:569:PRO:HB3	2.01	0.42
1:h:404:MET:C	1:h:405:LEU:HD12	2.45	0.42
1:h:699:GLU:HB2	1:h:701:GLN:HE21	1.84	0.42
1:k:290:HIS:CD2	1:k:366:PRO:HG3	2.55	0.42
1:l:528:THR:HG21	1:l:563:ASN:HA	2.01	0.42
1:p:487:ARG:NH2	1:p:598:ASN:OD1	2.53	0.42
1:r:437:ASN:HB2	1:s:355:VAL:HB	2.01	0.42
1:r:699:GLU:HB2	1:r:701:GLN:HE21	1.84	0.42
1:1:290:HIS:CD2	1:1:366:PRO:HG3	2.55	0.42
1:2:431:SER:HA	1:2:569:PRO:HB3	2.01	0.42
1:5:313:LEU:HB3	1:5:415:TYR:HB3	2.01	0.42
1:5:404:MET:C	1:5:405:LEU:HD12	2.45	0.42
1:8:313:LEU:HB3	1:8:415:TYR:HB3	2.01	0.42
1:8:404:MET:C	1:8:405:LEU:HD12	2.45	0.42
1:8:445:TYR:HE1	1:8:467:GLN:HG3	1.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:VAL:HB	1:M:437:ASN:HB2	2.01	0.42
1:D:290:HIS:CD2	1:D:366:PRO:HG3	2.55	0.42
1:D:503:PHE:CZ	1:P:450:THR:HG21	2.55	0.42
1:E:433:ASP:OD1	1:E:433:ASP:N	2.50	0.42
1:G:433:ASP:OD1	1:G:433:ASP:N	2.50	0.42
1:H:313:LEU:HB3	1:H:415:TYR:HB3	2.01	0.42
1:I:404:MET:C	1:I:405:LEU:HD12	2.45	0.42
1:J:431:SER:HA	1:J:569:PRO:HB3	2.01	0.42
1:N:313:LEU:HB3	1:N:415:TYR:HB3	2.01	0.42
1:N:545:PHE:HB2	1:N:560:LEU:HB2	2.02	0.42
1:P:487:ARG:NH2	1:P:598:ASN:OD1	2.53	0.42
1:S:275:PHE:HB3	1:S:383:ASN:HB3	2.02	0.42
1:S:313:LEU:HB3	1:S:415:TYR:HB3	2.01	0.42
1:S:528:THR:HG21	1:S:563:ASN:HA	2.01	0.42
1:V:487:ARG:NH2	1:V:598:ASN:OD1	2.53	0.42
1:W:699:GLU:HB2	1:W:701:GLN:HE21	1.84	0.42
1:Z:699:GLU:HB2	1:Z:701:GLN:HE21	1.84	0.42
1:c:404:MET:C	1:c:405:LEU:HD12	2.45	0.42
1:e:404:MET:C	1:e:405:LEU:HD12	2.45	0.42
1:f:290:HIS:CD2	1:f:366:PRO:HG3	2.55	0.42
1:f:431:SER:HA	1:f:569:PRO:HB3	2.01	0.42
1:g:404:MET:C	1:g:405:LEU:HD12	2.45	0.42
1:i:355:VAL:HB	1:k:437:ASN:HB2	2.01	0.42
1:i:545:PHE:HB2	1:i:560:LEU:HB2	2.02	0.42
1:i:699:GLU:HB2	1:i:701:GLN:HE21	1.84	0.42
1:m:313:LEU:HB3	1:m:415:TYR:HB3	2.01	0.42
1:o:404:MET:C	1:o:405:LEU:HD12	2.45	0.42
1:p:404:MET:C	1:p:405:LEU:HD12	2.45	0.42
1:r:275:PHE:HB3	1:r:383:ASN:HB3	2.02	0.42
1:r:313:LEU:HB3	1:r:415:TYR:HB3	2.01	0.42
1:s:290:HIS:CD2	1:s:366:PRO:HG3	2.55	0.42
1:u:404:MET:C	1:u:405:LEU:HD12	2.45	0.42
1:w:275:PHE:HB3	1:w:383:ASN:HB3	2.02	0.42
1:x:290:HIS:CD2	1:x:366:PRO:HG3	2.55	0.42
1:2:404:MET:C	1:2:405:LEU:HD12	2.45	0.42
1:8:545:PHE:HB2	1:8:560:LEU:HB2	2.02	0.42
1:8:699:GLU:HB2	1:8:701:GLN:HE21	1.84	0.42
1:A:287:ASN:O	1:A:618:PRO:HA	2.20	0.42
1:B:404:MET:C	1:B:405:LEU:HD12	2.45	0.42
1:C:290:HIS:CD2	1:C:366:PRO:HG3	2.55	0.42
1:E:701:GLN:H	1:P:703:THR:HG23	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:HIS:CD2	1:F:366:PRO:HG3	2.55	0.42
1:F:528:THR:HG21	1:F:563:ASN:HA	2.01	0.42
1:G:290:HIS:CD2	1:G:366:PRO:HG3	2.55	0.42
1:G:313:LEU:HB3	1:G:415:TYR:HB3	2.01	0.42
1:H:287:ASN:O	1:H:618:PRO:HA	2.20	0.42
1:J:275:PHE:HB3	1:J:383:ASN:HB3	2.02	0.42
1:M:287:ASN:O	1:M:618:PRO:HA	2.20	0.42
1:M:699:GLU:HB2	1:M:701:GLN:HE21	1.84	0.42
1:N:290:HIS:CD2	1:N:366:PRO:HG3	2.55	0.42
1:Q:287:ASN:O	1:Q:618:PRO:HA	2.20	0.42
1:R:290:HIS:CD2	1:R:366:PRO:HG3	2.55	0.42
1:R:404:MET:C	1:R:405:LEU:HD12	2.45	0.42
1:R:528:THR:HG21	1:R:563:ASN:HA	2.01	0.42
1:S:699:GLU:HB2	1:S:701:GLN:HE21	1.84	0.42
1:T:313:LEU:HB3	1:T:415:TYR:HB3	2.01	0.42
1:V:404:MET:C	1:V:405:LEU:HD12	2.45	0.42
1:X:404:MET:C	1:X:405:LEU:HD12	2.45	0.42
1:Y:290:HIS:CD2	1:Y:366:PRO:HG3	2.55	0.42
1:Z:545:PHE:HB2	1:Z:560:LEU:HB2	2.02	0.42
1:b:487:ARG:NH2	1:b:598:ASN:OD1	2.53	0.42
1:d:290:HIS:CD2	1:d:366:PRO:HG3	2.55	0.42
1:f:487:ARG:NH2	1:f:598:ASN:OD1	2.53	0.42
1:g:290:HIS:CD2	1:g:366:PRO:HG3	2.55	0.42
1:g:313:LEU:HB3	1:g:415:TYR:HB3	2.01	0.42
1:g:355:VAL:HB	1:h:437:ASN:HB2	2.01	0.42
1:i:313:LEU:HB3	1:i:415:TYR:HB3	2.01	0.42
1:j:404:MET:C	1:j:405:LEU:HD12	2.45	0.42
1:j:487:ARG:NH2	1:j:598:ASN:OD1	2.53	0.42
1:n:290:HIS:CD2	1:n:366:PRO:HG3	2.55	0.42
1:q:433:ASP:OD1	1:q:433:ASP:N	2.50	0.42
1:r:528:THR:HG21	1:r:563:ASN:HA	2.01	0.42
1:t:290:HIS:CD2	1:t:366:PRO:HG3	2.55	0.42
1:v:287:ASN:O	1:v:618:PRO:HA	2.20	0.42
1:w:404:MET:C	1:w:405:LEU:HD12	2.45	0.42
1:x:287:ASN:O	1:x:618:PRO:HA	2.20	0.42
1:y:290:HIS:CD2	1:y:366:PRO:HG3	2.55	0.42
1:z:545:PHE:HB2	1:z:560:LEU:HB2	2.02	0.42
1:1:404:MET:C	1:1:405:LEU:HD12	2.45	0.42
1:1:437:ASN:HB2	1:2:355:VAL:HB	2.01	0.42
1:2:275:PHE:HB3	1:2:383:ASN:HB3	2.02	0.42
1:5:287:ASN:O	1:5:618:PRO:HA	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:699:GLU:HB2	1:6:701:GLN:HE21	1.84	0.42
1:7:290:HIS:CD2	1:7:366:PRO:HG3	2.55	0.42
1:7:545:PHE:HB2	1:7:560:LEU:HB2	2.02	0.42
1:B:323:LYS:NZ	1:B:336:ASN:OD1	2.35	0.42
1:B:528:THR:HG21	1:B:563:ASN:HA	2.01	0.42
1:C:404:MET:C	1:C:405:LEU:HD12	2.45	0.42
1:D:431:SER:HA	1:D:569:PRO:HB3	2.01	0.42
1:E:487:ARG:NH2	1:E:598:ASN:OD1	2.53	0.42
1:F:275:PHE:HB3	1:F:383:ASN:HB3	2.02	0.42
1:G:275:PHE:HB3	1:G:383:ASN:HB3	2.02	0.42
1:G:699:GLU:HB2	1:G:701:GLN:HE21	1.84	0.42
1:H:545:PHE:HB2	1:H:560:LEU:HB2	2.02	0.42
1:K:313:LEU:HB3	1:K:415:TYR:HB3	2.01	0.42
1:L:545:PHE:HB2	1:L:560:LEU:HB2	2.02	0.42
1:N:404:MET:C	1:N:405:LEU:HD12	2.45	0.42
1:O:431:SER:HA	1:O:569:PRO:HB3	2.01	0.42
1:Q:275:PHE:HB3	1:Q:383:ASN:HB3	2.02	0.42
1:R:699:GLU:HB2	1:R:701:GLN:HE21	1.84	0.42
1:T:431:SER:HA	1:T:569:PRO:HB3	2.01	0.42
1:T:545:PHE:HB2	1:T:560:LEU:HB2	2.02	0.42
1:V:699:GLU:HB2	1:V:701:GLN:HE21	1.84	0.42
1:Y:545:PHE:HB2	1:Y:560:LEU:HB2	2.02	0.42
1:a:287:ASN:O	1:a:618:PRO:HA	2.20	0.42
1:c:431:SER:HA	1:c:569:PRO:HB3	2.01	0.42
1:e:290:HIS:CD2	1:e:366:PRO:HG3	2.55	0.42
1:m:431:SER:HA	1:m:569:PRO:HB3	2.01	0.42
1:m:545:PHE:HB2	1:m:560:LEU:HB2	2.02	0.42
1:q:290:HIS:CD2	1:q:366:PRO:HG3	2.55	0.42
1:q:528:THR:HG21	1:q:563:ASN:HA	2.01	0.42
1:s:275:PHE:HB3	1:s:383:ASN:HB3	2.02	0.42
1:t:275:PHE:HB3	1:t:383:ASN:HB3	2.02	0.42
1:t:313:LEU:HB3	1:t:415:TYR:HB3	2.01	0.42
1:v:290:HIS:CD2	1:v:366:PRO:HG3	2.55	0.42
1:v:313:LEU:HB3	1:v:415:TYR:HB3	2.01	0.42
1:w:433:ASP:N	1:w:433:ASP:OD1	2.50	0.42
1:w:487:ARG:NH2	1:w:598:ASN:OD1	2.53	0.42
1:y:275:PHE:HB3	1:y:383:ASN:HB3	2.02	0.42
1:1:528:THR:HG21	1:1:563:ASN:HA	2.01	0.42
1:3:287:ASN:O	1:3:618:PRO:HA	2.20	0.42
1:4:323:LYS:NZ	1:4:336:ASN:OD1	2.35	0.42
1:8:487:ARG:NH2	1:8:598:ASN:OD1	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:HIS:CD2	1:A:366:PRO:HG3	2.55	0.42
1:A:545:PHE:HB2	1:A:560:LEU:HB2	2.02	0.42
1:C:313:LEU:HB3	1:C:415:TYR:HB3	2.01	0.42
1:D:699:GLU:HB2	1:D:701:GLN:HE21	1.84	0.42
1:E:404:MET:C	1:E:405:LEU:HD12	2.45	0.42
1:E:437:ASN:HB2	1:Q:355:VAL:HB	2.00	0.42
1:I:290:HIS:CD2	1:I:366:PRO:HG3	2.55	0.42
1:J:404:MET:C	1:J:405:LEU:HD12	2.45	0.42
1:J:427:ALA:O	1:J:734:THR:HA	2.20	0.42
1:K:275:PHE:HB3	1:K:383:ASN:HB3	2.02	0.42
1:K:426:TYR:HE1	1:K:428:HIS:CE1	2.38	0.42
1:P:404:MET:C	1:P:405:LEU:HD12	2.45	0.42
1:Q:510:LYS:HD2	1:Q:517:ASN:HB3	2.02	0.42
1:R:431:SER:HA	1:R:569:PRO:HB3	2.01	0.42
1:R:433:ASP:OD1	1:R:433:ASP:N	2.50	0.42
1:S:287:ASN:O	1:S:618:PRO:HA	2.20	0.42
1:T:404:MET:C	1:T:405:LEU:HD12	2.45	0.42
1:U:275:PHE:HB3	1:U:383:ASN:HB3	2.02	0.42
1:Z:487:ARG:NH2	1:Z:598:ASN:OD1	2.53	0.42
1:Z:510:LYS:HD2	1:Z:517:ASN:HB3	2.02	0.42
1:c:290:HIS:CD2	1:c:366:PRO:HG3	2.55	0.42
1:e:431:SER:HA	1:e:569:PRO:HB3	2.01	0.42
1:h:287:ASN:O	1:h:618:PRO:HA	2.20	0.42
1:i:290:HIS:CD2	1:i:366:PRO:HG3	2.55	0.42
1:i:404:MET:C	1:i:405:LEU:HD12	2.45	0.42
1:k:431:SER:HA	1:k:569:PRO:HB3	2.01	0.42
1:l:426:TYR:HE1	1:l:428:HIS:CE1	2.38	0.42
1:l:431:SER:HA	1:l:569:PRO:HB3	2.01	0.42
1:q:404:MET:C	1:q:405:LEU:HD12	2.45	0.42
1:q:699:GLU:HB2	1:q:701:GLN:HE21	1.84	0.42
1:r:287:ASN:O	1:r:618:PRO:HA	2.20	0.42
1:w:437:ASN:HB2	1:x:355:VAL:HB	2.01	0.42
1:x:275:PHE:HB3	1:x:383:ASN:HB3	2.02	0.42
1:y:431:SER:HA	1:y:569:PRO:HB3	2.01	0.42
1:y:528:THR:HG21	1:y:563:ASN:HA	2.01	0.42
1:z:290:HIS:CD2	1:z:366:PRO:HG3	2.55	0.42
1:3:510:LYS:HD2	1:3:517:ASN:HB3	2.02	0.42
1:3:545:PHE:HB2	1:3:560:LEU:HB2	2.02	0.42
1:4:275:PHE:HB3	1:4:383:ASN:HB3	2.02	0.42
1:4:313:LEU:HB3	1:4:415:TYR:HB3	2.01	0.42
1:5:545:PHE:HB2	1:5:560:LEU:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:510:LYS:HD2	1:8:517:ASN:HB3	2.02	0.42
1:A:313:LEU:HD13	1:A:684:ILE:HG12	2.03	0.41
1:A:313:LEU:HB3	1:A:415:TYR:HB3	2.01	0.41
1:B:437:ASN:HB2	1:J:355:VAL:HB	2.01	0.41
1:B:699:GLU:HB2	1:B:701:GLN:HE21	1.84	0.41
1:E:287:ASN:O	1:E:618:PRO:HA	2.20	0.41
1:F:431:SER:HA	1:F:569:PRO:HB3	2.01	0.41
1:F:545:PHE:HB2	1:F:560:LEU:HB2	2.02	0.41
1:J:510:LYS:HD2	1:J:517:ASN:HB3	2.02	0.41
1:J:699:GLU:HB2	1:J:701:GLN:HE21	1.84	0.41
1:L:426:TYR:HE1	1:L:428:HIS:CE1	2.38	0.41
1:L:487:ARG:NH2	1:L:598:ASN:OD1	2.53	0.41
1:M:426:TYR:HE1	1:M:428:HIS:CE1	2.38	0.41
1:O:426:TYR:HE1	1:O:428:HIS:CE1	2.38	0.41
1:P:275:PHE:HB3	1:P:383:ASN:HB3	2.02	0.41
1:P:313:LEU:HD13	1:P:684:ILE:HG12	2.02	0.41
1:Q:288:ARG:CZ	1:Q:290:HIS:CE1	3.03	0.41
1:R:287:ASN:O	1:R:618:PRO:HA	2.20	0.41
1:R:313:LEU:HD13	1:R:684:ILE:HG12	2.02	0.41
1:R:631:HIS:ND1	1:R:631:HIS:O	2.53	0.41
1:S:290:HIS:CD2	1:S:366:PRO:HG3	2.55	0.41
1:T:290:HIS:CD2	1:T:366:PRO:HG3	2.55	0.41
1:T:433:ASP:N	1:T:433:ASP:OD1	2.50	0.41
1:T:631:HIS:O	1:T:631:HIS:ND1	2.53	0.41
1:U:699:GLU:HB2	1:U:701:GLN:HE21	1.84	0.41
1:X:510:LYS:HD2	1:X:517:ASN:HB3	2.02	0.41
1:a:290:HIS:HD2	1:a:366:PRO:CA	2.33	0.41
1:a:290:HIS:CD2	1:a:366:PRO:HG3	2.55	0.41
1:a:510:LYS:HD2	1:a:517:ASN:HB3	2.02	0.41
1:a:528:THR:HG21	1:a:563:ASN:HA	2.01	0.41
1:a:545:PHE:HB2	1:a:560:LEU:HB2	2.02	0.41
1:b:275:PHE:HB3	1:b:383:ASN:HB3	2.02	0.41
1:b:510:LYS:HD2	1:b:517:ASN:HB3	2.02	0.41
1:f:275:PHE:HB3	1:f:383:ASN:HB3	2.02	0.41
1:k:287:ASN:O	1:k:618:PRO:HA	2.20	0.41
1:m:290:HIS:CD2	1:m:366:PRO:HG3	2.55	0.41
1:m:404:MET:C	1:m:405:LEU:HD12	2.45	0.41
1:n:487:ARG:NH2	1:n:598:ASN:OD1	2.53	0.41
1:q:631:HIS:ND1	1:q:631:HIS:O	2.53	0.41
1:r:631:HIS:ND1	1:r:631:HIS:O	2.53	0.41
1:t:699:GLU:HB2	1:t:701:GLN:HE21	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:290:HIS:CD2	1:u:366:PRO:HG3	2.55	0.41
1:v:426:TYR:HE1	1:v:428:HIS:CE1	2.38	0.41
1:v:545:PHE:HB2	1:v:560:LEU:HB2	2.02	0.41
1:w:510:LYS:HD2	1:w:517:ASN:HB3	2.02	0.41
1:x:510:LYS:HD2	1:x:517:ASN:HB3	2.02	0.41
1:y:545:PHE:HB2	1:y:560:LEU:HB2	2.02	0.41
1:z:426:TYR:HE1	1:z:428:HIS:CE1	2.38	0.41
1:1:510:LYS:HD2	1:1:517:ASN:HB3	2.02	0.41
1:1:699:GLU:HB2	1:1:701:GLN:HE21	1.84	0.41
1:2:313:LEU:HB3	1:2:415:TYR:HB3	2.01	0.41
1:2:427:ALA:O	1:2:734:THR:HA	2.20	0.41
1:2:510:LYS:HD2	1:2:517:ASN:HB3	2.02	0.41
1:3:290:HIS:HD2	1:3:366:PRO:CA	2.33	0.41
1:3:290:HIS:CD2	1:3:366:PRO:HG3	2.55	0.41
1:3:528:THR:HG21	1:3:563:ASN:HA	2.01	0.41
1:4:426:TYR:HE1	1:4:428:HIS:CE1	2.38	0.41
1:8:275:PHE:HB3	1:8:383:ASN:HB3	2.02	0.41
1:A:426:TYR:HE1	1:A:428:HIS:CE1	2.38	0.41
1:A:445:TYR:HE1	1:A:467:GLN:HG3	1.82	0.41
1:A:528:THR:HG21	1:A:563:ASN:HA	2.01	0.41
1:C:426:TYR:HE1	1:C:428:HIS:CE1	2.38	0.41
1:C:581:VAL:HG23	1:b:487:ARG:O	2.21	0.41
1:D:287:ASN:O	1:D:618:PRO:HA	2.20	0.41
1:D:426:TYR:HE1	1:D:428:HIS:CE1	2.38	0.41
1:G:290:HIS:HD2	1:G:366:PRO:CA	2.33	0.41
1:H:290:HIS:CD2	1:H:366:PRO:HG3	2.55	0.41
1:H:510:LYS:HD2	1:H:517:ASN:HB3	2.03	0.41
1:I:631:HIS:ND1	1:I:631:HIS:O	2.53	0.41
1:K:323:LYS:NZ	1:K:336:ASN:OD1	2.35	0.41
1:K:427:ALA:O	1:K:734:THR:HA	2.21	0.41
1:K:585:LEU:HD23	1:a:490:ARG:NH1	2.36	0.41
1:L:290:HIS:CD2	1:L:366:PRO:HG3	2.55	0.41
1:L:631:HIS:ND1	1:L:631:HIS:O	2.53	0.41
1:N:631:HIS:ND1	1:N:631:HIS:O	2.53	0.41
1:O:313:LEU:HD13	1:O:684:ILE:HG12	2.03	0.41
1:Q:487:ARG:NH2	1:Q:598:ASN:OD1	2.53	0.41
1:R:510:LYS:HD2	1:R:517:ASN:HB3	2.02	0.41
1:S:631:HIS:ND1	1:S:631:HIS:O	2.53	0.41
1:V:287:ASN:O	1:V:618:PRO:HA	2.20	0.41
1:X:699:GLU:HB2	1:X:701:GLN:HE21	1.84	0.41
1:Z:275:PHE:HB3	1:Z:383:ASN:HB3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:487:ARG:O	1:3:581:VAL:HG23	2.21	0.41
1:a:581:VAL:HG23	1:8:487:ARG:O	2.21	0.41
1:b:426:TYR:HE1	1:b:428:HIS:CE1	2.38	0.41
1:c:313:LEU:HB3	1:c:415:TYR:HB3	2.01	0.41
1:d:313:LEU:HB3	1:d:415:TYR:HB3	2.01	0.41
1:d:487:ARG:NH2	1:d:598:ASN:OD1	2.53	0.41
1:f:288:ARG:CZ	1:f:290:HIS:CE1	3.03	0.41
1:f:426:TYR:HE1	1:f:428:HIS:CE1	2.38	0.41
1:f:487:ARG:O	1:g:581:VAL:HG23	2.21	0.41
1:f:510:LYS:HD2	1:f:517:ASN:HB3	2.02	0.41
1:g:426:TYR:HE1	1:g:428:HIS:CE1	2.38	0.41
1:h:426:TYR:HE1	1:h:428:HIS:CE1	2.38	0.41
1:j:258:TYR:O	1:l:720:GLY:HA2	2.20	0.41
1:j:313:LEU:HD13	1:j:684:ILE:HG12	2.02	0.41
1:k:313:LEU:HB3	1:k:415:TYR:HB3	2.01	0.41
1:k:699:GLU:HB2	1:k:701:GLN:HE21	1.84	0.41
1:m:585:LEU:HD23	1:n:490:ARG:NH1	2.36	0.41
1:n:287:ASN:O	1:n:618:PRO:HA	2.20	0.41
1:n:313:LEU:HB3	1:n:415:TYR:HB3	2.01	0.41
1:o:510:LYS:HD2	1:o:517:ASN:HB3	2.02	0.41
1:o:699:GLU:HB2	1:o:701:GLN:HE21	1.84	0.41
1:p:699:GLU:HB2	1:p:701:GLN:HE21	1.84	0.41
1:q:287:ASN:O	1:q:618:PRO:HA	2.20	0.41
1:q:313:LEU:HD13	1:q:684:ILE:HG12	2.03	0.41
1:q:431:SER:HA	1:q:569:PRO:HB3	2.01	0.41
1:q:510:LYS:HD2	1:q:517:ASN:HB3	2.02	0.41
1:r:290:HIS:CD2	1:r:366:PRO:HG3	2.55	0.41
1:r:404:MET:C	1:r:405:LEU:HD12	2.45	0.41
1:s:699:GLU:HB2	1:s:701:GLN:HE21	1.84	0.41
1:u:631:HIS:ND1	1:u:631:HIS:O	2.53	0.41
1:v:313:LEU:HD13	1:v:684:ILE:HG12	2.03	0.41
1:w:287:ASN:O	1:w:618:PRO:HA	2.20	0.41
1:x:288:ARG:CZ	1:x:290:HIS:CE1	3.03	0.41
1:x:426:TYR:HE1	1:x:428:HIS:CE1	2.38	0.41
1:z:487:ARG:NH2	1:z:598:ASN:OD1	2.53	0.41
1:z:631:HIS:ND1	1:z:631:HIS:O	2.53	0.41
1:2:699:GLU:HB2	1:2:701:GLN:HE21	1.84	0.41
1:4:427:ALA:O	1:4:734:THR:HA	2.21	0.41
1:5:510:LYS:HD2	1:5:517:ASN:HB3	2.03	0.41
1:B:510:LYS:HD2	1:B:517:ASN:HB3	2.03	0.41
1:D:258:TYR:O	1:E:720:GLY:HA2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:313:LEU:HB3	1:D:415:TYR:HB3	2.01	0.41
1:D:487:ARG:NH2	1:D:598:ASN:OD1	2.53	0.41
1:E:487:ARG:O	1:F:581:VAL:HG23	2.21	0.41
1:E:510:LYS:HD2	1:E:517:ASN:HB3	2.02	0.41
1:H:581:VAL:HG23	1:W:487:ARG:O	2.21	0.41
1:H:631:HIS:ND1	1:H:631:HIS:O	2.53	0.41
1:J:313:LEU:HB3	1:J:415:TYR:HB3	2.01	0.41
1:N:466:TYR:HA	1:P:552:ASN:O	2.21	0.41
1:P:287:ASN:O	1:P:618:PRO:HA	2.20	0.41
1:P:290:HIS:HD2	1:P:366:PRO:CA	2.33	0.41
1:P:699:GLU:HB2	1:P:701:GLN:HE21	1.84	0.41
1:Q:426:TYR:HE1	1:Q:428:HIS:CE1	2.38	0.41
1:R:288:ARG:CZ	1:R:290:HIS:CE1	3.03	0.41
1:R:427:ALA:O	1:R:734:THR:HA	2.21	0.41
1:S:404:MET:C	1:S:405:LEU:HD12	2.45	0.41
1:S:487:ARG:NH2	1:S:598:ASN:OD1	2.53	0.41
1:S:581:VAL:HG23	1:U:487:ARG:O	2.21	0.41
1:T:585:LEU:HD23	1:d:490:ARG:NH1	2.36	0.41
1:V:585:LEU:HD23	1:e:490:ARG:NH1	2.36	0.41
1:X:355:VAL:HB	1:e:437:ASN:HB2	2.00	0.41
1:X:631:HIS:ND1	1:X:631:HIS:O	2.53	0.41
1:Y:404:MET:C	1:Y:405:LEU:HD12	2.45	0.41
1:a:323:LYS:NZ	1:a:336:ASN:OD1	2.35	0.41
1:a:404:MET:C	1:a:405:LEU:HD12	2.45	0.41
1:a:426:TYR:HE1	1:a:428:HIS:CE1	2.38	0.41
1:b:287:ASN:O	1:b:618:PRO:HA	2.20	0.41
1:b:288:ARG:CZ	1:b:290:HIS:CE1	3.03	0.41
1:b:631:HIS:ND1	1:b:631:HIS:O	2.53	0.41
1:c:426:TYR:HE1	1:c:428:HIS:CE1	2.38	0.41
1:d:287:ASN:O	1:d:618:PRO:HA	2.20	0.41
1:d:545:PHE:HB2	1:d:560:LEU:HB2	2.02	0.41
1:e:313:LEU:HB3	1:e:415:TYR:HB3	2.01	0.41
1:e:426:TYR:HE1	1:e:428:HIS:CE1	2.38	0.41
1:i:437:ASN:HB2	1:j:355:VAL:HB	2.02	0.41
1:i:631:HIS:ND1	1:i:631:HIS:O	2.54	0.41
1:j:275:PHE:HB3	1:j:383:ASN:HB3	2.02	0.41
1:j:290:HIS:HD2	1:j:366:PRO:CA	2.33	0.41
1:k:426:TYR:HE1	1:k:428:HIS:CE1	2.38	0.41
1:k:487:ARG:NH2	1:k:598:ASN:OD1	2.53	0.41
1:k:510:LYS:HD2	1:k:517:ASN:HB3	2.02	0.41
1:m:426:TYR:HE1	1:m:428:HIS:CE1	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:631:HIS:ND1	1:m:631:HIS:O	2.54	0.41
1:n:545:PHE:HB2	1:n:560:LEU:HB2	2.02	0.41
1:o:631:HIS:ND1	1:o:631:HIS:O	2.53	0.41
1:p:287:ASN:O	1:p:618:PRO:HA	2.20	0.41
1:q:427:ALA:O	1:q:734:THR:HA	2.20	0.41
1:r:487:ARG:NH2	1:r:598:ASN:OD1	2.53	0.41
1:r:581:VAL:HG23	1:s:487:ARG:O	2.21	0.41
1:t:290:HIS:HD2	1:t:366:PRO:CA	2.33	0.41
1:t:431:SER:HA	1:t:569:PRO:HB3	2.01	0.41
1:t:581:VAL:HG23	1:u:487:ARG:O	2.21	0.41
1:x:487:ARG:NH2	1:x:598:ASN:OD1	2.53	0.41
1:y:287:ASN:O	1:y:618:PRO:HA	2.20	0.41
1:y:510:LYS:HD2	1:y:517:ASN:HB3	2.02	0.41
1:z:287:ASN:O	1:z:618:PRO:HA	2.20	0.41
1:1:487:ARG:NH2	1:1:598:ASN:OD1	2.53	0.41
1:3:426:TYR:HE1	1:3:428:HIS:CE1	2.38	0.41
1:3:490:ARG:NH1	1:4:585:LEU:HD23	2.36	0.41
1:4:288:ARG:CZ	1:4:290:HIS:CE1	3.03	0.41
1:5:290:HIS:CD2	1:5:366:PRO:HG3	2.55	0.41
1:5:313:LEU:HD13	1:5:684:ILE:HG12	2.02	0.41
1:5:581:VAL:HG23	1:6:487:ARG:O	2.21	0.41
1:5:631:HIS:ND1	1:5:631:HIS:O	2.53	0.41
1:8:426:TYR:HE1	1:8:428:HIS:CE1	2.38	0.41
1:A:404:MET:C	1:A:405:LEU:HD12	2.45	0.41
1:B:355:VAL:HB	1:L:437:ASN:HB2	2.01	0.41
1:B:426:TYR:HE1	1:B:428:HIS:CE1	2.38	0.41
1:B:487:ARG:O	1:L:581:VAL:HG23	2.21	0.41
1:B:487:ARG:NH2	1:B:598:ASN:OD1	2.53	0.41
1:C:545:PHE:HB2	1:C:560:LEU:HB2	2.02	0.41
1:D:510:LYS:HD2	1:D:517:ASN:HB3	2.03	0.41
1:E:581:VAL:HG23	1:Q:487:ARG:O	2.21	0.41
1:F:287:ASN:O	1:F:618:PRO:HA	2.20	0.41
1:G:445:TYR:HE1	1:G:467:GLN:HG3	1.82	0.41
1:G:581:VAL:HG23	1:I:487:ARG:O	2.21	0.41
1:H:275:PHE:HB3	1:H:383:ASN:HB3	2.02	0.41
1:H:313:LEU:HD13	1:H:684:ILE:HG12	2.02	0.41
1:J:290:HIS:HD2	1:J:366:PRO:CA	2.33	0.41
1:K:404:MET:C	1:K:405:LEU:HD12	2.45	0.41
1:K:510:LYS:HD2	1:K:517:ASN:HB3	2.02	0.41
1:K:581:VAL:HG23	1:a:487:ARG:O	2.20	0.41
1:L:287:ASN:O	1:L:618:PRO:HA	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:290:HIS:CD2	1:M:366:PRO:HG3	2.55	0.41
1:P:290:HIS:CD2	1:P:366:PRO:HG3	2.55	0.41
1:P:426:TYR:HE1	1:P:428:HIS:CE1	2.38	0.41
1:Q:313:LEU:HD13	1:Q:684:ILE:HG12	2.02	0.41
1:S:427:ALA:O	1:S:734:THR:HA	2.20	0.41
1:T:426:TYR:HE1	1:T:428:HIS:CE1	2.38	0.41
1:W:427:ALA:O	1:W:734:THR:HA	2.21	0.41
1:W:510:LYS:HD2	1:W:517:ASN:HB3	2.02	0.41
1:X:487:ARG:O	1:e:581:VAL:HG23	2.21	0.41
1:Z:426:TYR:HE1	1:Z:428:HIS:CE1	2.38	0.41
1:Z:631:HIS:ND1	1:Z:631:HIS:O	2.54	0.41
1:c:437:ASN:HB2	1:o:355:VAL:HB	2.00	0.41
1:c:490:ARG:NH1	1:p:585:LEU:HD23	2.36	0.41
1:c:581:VAL:HG23	1:o:487:ARG:O	2.21	0.41
1:d:581:VAL:HG23	1:l:487:ARG:O	2.21	0.41
1:f:287:ASN:O	1:f:618:PRO:HA	2.20	0.41
1:f:631:HIS:ND1	1:f:631:HIS:O	2.53	0.41
1:h:290:HIS:CD2	1:h:366:PRO:HG3	2.55	0.41
1:j:287:ASN:O	1:j:618:PRO:HA	2.20	0.41
1:j:290:HIS:CD2	1:j:366:PRO:HG3	2.55	0.41
1:j:426:TYR:HE1	1:j:428:HIS:CE1	2.38	0.41
1:l:313:LEU:HD13	1:l:684:ILE:HG12	2.03	0.41
1:m:433:ASP:N	1:m:433:ASP:OD1	2.50	0.41
1:p:425:SER:O	1:p:731:ARG:HA	2.21	0.41
1:p:631:HIS:ND1	1:p:631:HIS:O	2.54	0.41
1:q:288:ARG:CZ	1:q:290:HIS:CE1	3.03	0.41
1:q:545:PHE:HB2	1:q:560:LEU:HB2	2.02	0.41
1:s:431:SER:HA	1:s:569:PRO:HB3	2.01	0.41
1:t:287:ASN:O	1:t:618:PRO:HA	2.20	0.41
1:u:581:VAL:HG23	1:v:487:ARG:O	2.21	0.41
1:v:528:THR:HG21	1:v:563:ASN:HA	2.01	0.41
1:w:487:ARG:O	1:y:581:VAL:HG23	2.21	0.41
1:w:581:VAL:HG23	1:x:487:ARG:O	2.21	0.41
1:x:313:LEU:HD13	1:x:684:ILE:HG12	2.02	0.41
1:z:581:VAL:HG23	1:1:487:ARG:O	2.21	0.41
1:1:426:TYR:HE1	1:1:428:HIS:CE1	2.38	0.41
1:2:290:HIS:HD2	1:2:366:PRO:CA	2.33	0.41
1:2:528:THR:HG21	1:2:563:ASN:HA	2.01	0.41
1:2:545:PHE:HB2	1:2:560:LEU:HB2	2.02	0.41
1:3:404:MET:C	1:3:405:LEU:HD12	2.45	0.41
1:3:487:ARG:O	1:4:581:VAL:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:510:LYS:HD2	1:4:517:ASN:HB3	2.02	0.41
1:4:699:GLU:HB2	1:4:701:GLN:HE21	1.84	0.41
1:5:275:PHE:HB3	1:5:383:ASN:HB3	2.02	0.41
1:6:427:ALA:O	1:6:734:THR:HA	2.21	0.41
1:7:404:MET:C	1:7:405:LEU:HD12	2.45	0.41
1:B:287:ASN:O	1:B:618:PRO:HA	2.20	0.41
1:D:427:ALA:O	1:D:734:THR:HA	2.21	0.41
1:E:290:HIS:CD2	1:E:366:PRO:HG3	2.55	0.41
1:E:426:TYR:HE1	1:E:428:HIS:CE1	2.38	0.41
1:E:545:PHE:HB2	1:E:560:LEU:HB2	2.02	0.41
1:F:510:LYS:HD2	1:F:517:ASN:HB3	2.02	0.41
1:G:287:ASN:O	1:G:618:PRO:HA	2.20	0.41
1:G:431:SER:HA	1:G:569:PRO:HB3	2.01	0.41
1:G:720:GLY:HA2	1:W:258:TYR:O	2.21	0.41
1:H:425:SER:O	1:H:731:ARG:HA	2.21	0.41
1:I:313:LEU:HD13	1:I:684:ILE:HG12	2.02	0.41
1:I:427:ALA:O	1:I:734:THR:HA	2.21	0.41
1:J:545:PHE:HB2	1:J:560:LEU:HB2	2.02	0.41
1:N:288:ARG:CZ	1:N:290:HIS:CE1	3.03	0.41
1:O:287:ASN:O	1:O:618:PRO:HA	2.20	0.41
1:O:487:ARG:O	1:n:581:VAL:HG23	2.21	0.41
1:Q:425:SER:O	1:Q:731:ARG:HA	2.21	0.41
1:R:545:PHE:HB2	1:R:560:LEU:HB2	2.02	0.41
1:S:290:HIS:HD2	1:S:366:PRO:CA	2.33	0.41
1:T:313:LEU:HD13	1:T:684:ILE:HG12	2.03	0.41
1:U:431:SER:HA	1:U:569:PRO:HB3	2.01	0.41
1:V:290:HIS:HD2	1:V:366:PRO:CA	2.34	0.41
1:V:425:SER:O	1:V:731:ARG:HA	2.21	0.41
1:V:427:ALA:O	1:V:734:THR:HA	2.21	0.41
1:V:487:ARG:O	1:X:581:VAL:HG23	2.21	0.41
1:V:545:PHE:HB2	1:V:560:LEU:HB2	2.02	0.41
1:V:631:HIS:ND1	1:V:631:HIS:O	2.54	0.41
1:W:425:SER:O	1:W:731:ARG:HA	2.21	0.41
1:Y:287:ASN:O	1:Y:618:PRO:HA	2.20	0.41
1:Y:426:TYR:HE1	1:Y:428:HIS:CE1	2.39	0.41
1:Z:290:HIS:CD2	1:Z:366:PRO:HG3	2.55	0.41
1:b:545:PHE:HB2	1:b:560:LEU:HB2	2.02	0.41
1:g:545:PHE:HB2	1:g:560:LEU:HB2	2.02	0.41
1:i:288:ARG:CZ	1:i:290:HIS:CE1	3.03	0.41
1:j:510:LYS:HD2	1:j:517:ASN:HB3	2.02	0.41
1:j:699:GLU:HB2	1:j:701:GLN:HE21	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:427:ALA:O	1:k:734:THR:HA	2.20	0.41
1:l:290:HIS:CD2	1:l:366:PRO:HG3	2.55	0.41
1:m:313:LEU:HD13	1:m:684:ILE:HG12	2.02	0.41
1:n:275:PHE:HB3	1:n:383:ASN:HB3	2.02	0.41
1:n:431:SER:HA	1:n:569:PRO:HB3	2.01	0.41
1:o:287:ASN:O	1:o:618:PRO:HA	2.20	0.41
1:o:581:VAL:HG23	1:p:487:ARG:O	2.21	0.41
1:p:290:HIS:HD2	1:p:366:PRO:CA	2.34	0.41
1:p:427:ALA:O	1:p:734:THR:HA	2.20	0.41
1:r:290:HIS:HD2	1:r:366:PRO:CA	2.33	0.41
1:r:313:LEU:HD13	1:r:684:ILE:HG12	2.03	0.41
1:r:427:ALA:O	1:r:734:THR:HA	2.20	0.41
1:t:425:SER:O	1:t:731:ARG:HA	2.21	0.41
1:t:426:TYR:HE1	1:t:428:HIS:CE1	2.38	0.41
1:t:720:GLY:HA2	1:6:258:TYR:O	2.21	0.41
1:u:275:PHE:HB3	1:u:383:ASN:HB3	2.02	0.41
1:u:427:ALA:O	1:u:734:THR:HA	2.21	0.41
1:w:290:HIS:CD2	1:w:366:PRO:HG3	2.55	0.41
1:w:545:PHE:HB2	1:w:560:LEU:HB2	2.02	0.41
1:w:631:HIS:O	1:w:631:HIS:ND1	2.53	0.41
1:y:699:GLU:HB2	1:y:701:GLN:HE21	1.84	0.41
1:1:323:LYS:NZ	1:1:336:ASN:OD1	2.35	0.41
1:6:425:SER:O	1:6:731:ARG:HA	2.21	0.41
1:6:510:LYS:HD2	1:6:517:ASN:HB3	2.02	0.41
1:7:426:TYR:HE1	1:7:428:HIS:CE1	2.39	0.41
1:8:427:ALA:O	1:8:734:THR:HA	2.21	0.41
1:8:631:HIS:ND1	1:8:631:HIS:O	2.54	0.41
1:A:487:ARG:O	1:I:581:VAL:HG23	2.21	0.41
1:C:313:LEU:HD13	1:C:684:ILE:HG12	2.02	0.41
1:D:545:PHE:HB2	1:D:560:LEU:HB2	2.02	0.41
1:E:490:ARG:NH1	1:F:585:LEU:HD23	2.36	0.41
1:G:404:MET:C	1:G:405:LEU:HD12	2.45	0.41
1:G:425:SER:O	1:G:731:ARG:HA	2.21	0.41
1:G:426:TYR:HE1	1:G:428:HIS:CE1	2.38	0.41
1:G:427:ALA:O	1:G:734:THR:HA	2.21	0.41
1:H:323:LYS:NZ	1:H:336:ASN:OD1	2.35	0.41
1:I:275:PHE:HB3	1:I:383:ASN:HB3	2.02	0.41
1:J:426:TYR:HE1	1:J:428:HIS:CE1	2.38	0.41
1:J:528:THR:HG21	1:J:563:ASN:HA	2.01	0.41
1:K:290:HIS:CD2	1:K:366:PRO:HG3	2.55	0.41
1:K:699:GLU:HB2	1:K:701:GLN:HE21	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:288:ARG:CZ	1:M:290:HIS:CE1	3.03	0.41
1:N:487:ARG:NH2	1:N:598:ASN:OD1	2.53	0.41
1:O:290:HIS:CD2	1:O:366:PRO:HG3	2.55	0.41
1:P:510:LYS:HD2	1:P:517:ASN:HB3	2.02	0.41
1:P:528:THR:HG21	1:P:563:ASN:HA	2.01	0.41
1:P:677:THR:HG21	1:Q:656:PRO:HD2	2.02	0.41
1:Q:545:PHE:HB2	1:Q:560:LEU:HB2	2.02	0.41
1:R:487:ARG:NH2	1:R:598:ASN:OD1	2.53	0.41
1:S:313:LEU:HD13	1:S:684:ILE:HG12	2.03	0.41
1:V:275:PHE:HB3	1:V:383:ASN:HB3	2.02	0.41
1:W:287:ASN:O	1:W:618:PRO:HA	2.20	0.41
1:X:287:ASN:O	1:X:618:PRO:HA	2.20	0.41
1:Z:427:ALA:O	1:Z:734:THR:HA	2.21	0.41
1:d:323:LYS:NZ	1:d:336:ASN:OD1	2.35	0.41
1:e:545:PHE:HB2	1:e:560:LEU:HB2	2.02	0.41
1:g:287:ASN:O	1:g:618:PRO:HA	2.20	0.41
1:g:431:SER:HA	1:g:569:PRO:HB3	2.01	0.41
1:i:287:ASN:O	1:i:618:PRO:HA	2.20	0.41
1:j:631:HIS:ND1	1:j:631:HIS:O	2.54	0.41
1:l:287:ASN:O	1:l:618:PRO:HA	2.20	0.41
1:n:404:MET:C	1:n:405:LEU:HD12	2.45	0.41
1:o:290:HIS:HD2	1:o:366:PRO:CA	2.34	0.41
1:o:290:HIS:CD2	1:o:366:PRO:HG3	2.55	0.41
1:p:545:PHE:HB2	1:p:560:LEU:HB2	2.02	0.41
1:q:487:ARG:NH2	1:q:598:ASN:OD1	2.53	0.41
1:r:425:SER:O	1:r:731:ARG:HA	2.21	0.41
1:s:631:HIS:ND1	1:s:631:HIS:O	2.53	0.41
1:t:445:TYR:HE1	1:t:467:GLN:HG3	1.82	0.41
1:u:313:LEU:HD13	1:u:684:ILE:HG12	2.02	0.41
1:v:404:MET:C	1:v:405:LEU:HD12	2.45	0.41
1:v:445:TYR:HE1	1:v:467:GLN:HG3	1.82	0.41
1:w:427:ALA:O	1:w:734:THR:HA	2.20	0.41
1:x:425:SER:O	1:x:731:ARG:HA	2.21	0.41
1:x:545:PHE:HB2	1:x:560:LEU:HB2	2.02	0.41
1:x:631:HIS:O	1:x:631:HIS:ND1	2.53	0.41
1:y:427:ALA:O	1:y:734:THR:HA	2.20	0.41
1:z:437:ASN:HB2	1:1:355:VAL:HB	2.01	0.41
1:1:275:PHE:HB3	1:1:383:ASN:HB3	2.02	0.41
1:2:631:HIS:ND1	1:2:631:HIS:O	2.53	0.41
1:4:404:MET:C	1:4:405:LEU:HD12	2.45	0.41
1:5:425:SER:O	1:5:731:ARG:HA	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:487:ARG:NH2	1:5:598:ASN:OD1	2.53	0.41
1:7:287:ASN:O	1:7:618:PRO:HA	2.20	0.41
1:7:433:ASP:OD1	1:7:433:ASP:N	2.50	0.41
1:8:287:ASN:O	1:8:618:PRO:HA	2.20	0.41
1:8:290:HIS:CD2	1:8:366:PRO:HG3	2.55	0.41
1:C:287:ASN:O	1:C:618:PRO:HA	2.20	0.41
1:C:431:SER:HA	1:C:569:PRO:HB3	2.01	0.41
1:D:275:PHE:HB3	1:D:383:ASN:HB3	2.02	0.41
1:D:404:MET:C	1:D:405:LEU:HD12	2.45	0.41
1:E:288:ARG:CZ	1:E:290:HIS:CE1	3.03	0.41
1:E:631:HIS:ND1	1:E:631:HIS:O	2.53	0.41
1:F:427:ALA:O	1:F:734:THR:HA	2.20	0.41
1:F:699:GLU:HB2	1:F:701:GLN:HE21	1.84	0.41
1:H:487:ARG:NH2	1:H:598:ASN:OD1	2.53	0.41
1:J:631:HIS:ND1	1:J:631:HIS:O	2.53	0.41
1:N:287:ASN:O	1:N:618:PRO:HA	2.20	0.41
1:O:581:VAL:HG23	1:m:487:ARG:O	2.21	0.41
1:P:631:HIS:ND1	1:P:631:HIS:O	2.53	0.41
1:Q:631:HIS:O	1:Q:631:HIS:ND1	2.53	0.41
1:R:581:VAL:HG23	1:S:487:ARG:O	2.21	0.41
1:S:425:SER:O	1:S:731:ARG:HA	2.21	0.41
1:S:532:ASP:OD1	1:U:384:ASN:ND2	2.43	0.41
1:T:287:ASN:O	1:T:618:PRO:HA	2.20	0.41
1:U:631:HIS:ND1	1:U:631:HIS:O	2.53	0.41
1:W:275:PHE:HB3	1:W:383:ASN:HB3	2.02	0.41
1:X:290:HIS:CD2	1:X:366:PRO:HG3	2.55	0.41
1:Z:287:ASN:O	1:Z:618:PRO:HA	2.20	0.41
1:b:427:ALA:O	1:b:734:THR:HA	2.20	0.41
1:c:545:PHE:HB2	1:c:560:LEU:HB2	2.02	0.41
1:d:275:PHE:HB3	1:d:383:ASN:HB3	2.02	0.41
1:d:431:SER:HA	1:d:569:PRO:HB3	2.01	0.41
1:d:631:HIS:O	1:d:631:HIS:ND1	2.54	0.41
1:e:275:PHE:HB3	1:e:383:ASN:HB3	2.02	0.41
1:f:545:PHE:HB2	1:f:560:LEU:HB2	2.02	0.41
1:g:313:LEU:HD13	1:g:684:ILE:HG12	2.03	0.41
1:h:288:ARG:CZ	1:h:290:HIS:CE1	3.03	0.41
1:i:487:ARG:NH2	1:i:598:ASN:OD1	2.53	0.41
1:j:528:THR:HG21	1:j:563:ASN:HA	2.01	0.41
1:k:275:PHE:HB3	1:k:383:ASN:HB3	2.02	0.41
1:k:404:MET:C	1:k:405:LEU:HD12	2.45	0.41
1:k:545:PHE:HB2	1:k:560:LEU:HB2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:287:ASN:O	1:m:618:PRO:HA	2.20	0.41
1:m:581:VAL:HG23	1:n:487:ARG:O	2.20	0.41
1:o:427:ALA:O	1:o:734:THR:HA	2.20	0.41
1:o:720:GLY:HA2	1:7:258:TYR:O	2.21	0.41
1:t:404:MET:C	1:t:405:LEU:HD12	2.45	0.41
1:t:427:ALA:O	1:t:734:THR:HA	2.21	0.41
1:w:426:TYR:HE1	1:w:428:HIS:CE1	2.38	0.41
1:1:287:ASN:O	1:1:618:PRO:HA	2.20	0.41
1:1:425:SER:O	1:1:731:ARG:HA	2.21	0.41
1:2:313:LEU:HD13	1:2:684:ILE:HG12	2.03	0.41
1:2:426:TYR:HE1	1:2:428:HIS:CE1	2.38	0.41
1:3:275:PHE:HB3	1:3:383:ASN:HB3	2.02	0.41
1:3:631:HIS:ND1	1:3:631:HIS:O	2.54	0.41
1:4:290:HIS:CD2	1:4:366:PRO:HG3	2.55	0.41
1:5:258:TYR:O	1:8:720:GLY:HA2	2.21	0.41
1:6:275:PHE:HB3	1:6:383:ASN:HB3	2.02	0.41
1:6:290:HIS:CD2	1:6:366:PRO:HG3	2.55	0.41
1:7:427:ALA:O	1:7:734:THR:HA	2.21	0.41
1:7:487:ARG:NH2	1:7:598:ASN:OD1	2.53	0.41
1:B:275:PHE:HB3	1:B:383:ASN:HB3	2.02	0.41
1:B:425:SER:O	1:B:731:ARG:HA	2.21	0.41
1:C:425:SER:O	1:C:731:ARG:HA	2.21	0.41
1:D:631:HIS:ND1	1:D:631:HIS:O	2.53	0.41
1:E:427:ALA:O	1:E:734:THR:HA	2.20	0.41
1:F:631:HIS:ND1	1:F:631:HIS:O	2.53	0.41
1:G:313:LEU:HD13	1:G:684:ILE:HG12	2.03	0.41
1:H:258:TYR:O	1:Z:720:GLY:HA2	2.21	0.41
1:I:287:ASN:O	1:I:618:PRO:HA	2.20	0.41
1:J:313:LEU:HD13	1:J:684:ILE:HG12	2.03	0.41
1:K:487:ARG:O	1:8:581:VAL:HG23	2.21	0.41
1:M:258:TYR:O	1:c:720:GLY:HA2	2.21	0.41
1:N:425:SER:O	1:N:731:ARG:HA	2.21	0.41
1:O:427:ALA:O	1:O:734:THR:HA	2.20	0.41
1:P:545:PHE:HB2	1:P:560:LEU:HB2	2.02	0.41
1:Q:290:HIS:HD2	1:Q:366:PRO:CA	2.34	0.41
1:T:427:ALA:O	1:T:734:THR:HA	2.21	0.41
1:T:487:ARG:O	1:l:581:VAL:HG23	2.21	0.41
1:V:313:LEU:HD13	1:V:684:ILE:HG12	2.02	0.41
1:V:581:VAL:HG23	1:e:487:ARG:O	2.21	0.41
1:W:290:HIS:CD2	1:W:366:PRO:HG3	2.55	0.41
1:W:581:VAL:HG23	1:Y:487:ARG:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:631:HIS:ND1	1:W:631:HIS:O	2.53	0.41
1:X:427:ALA:O	1:X:734:THR:HA	2.20	0.41
1:X:720:GLY:HA2	1:Y:258:TYR:O	2.21	0.41
1:Y:427:ALA:O	1:Y:734:THR:HA	2.21	0.41
1:Z:290:HIS:HD2	1:Z:366:PRO:CA	2.34	0.41
1:Z:425:SER:O	1:Z:731:ARG:HA	2.21	0.41
1:a:275:PHE:HB3	1:a:383:ASN:HB3	2.02	0.41
1:a:427:ALA:O	1:a:734:THR:HA	2.20	0.41
1:a:631:HIS:ND1	1:a:631:HIS:O	2.54	0.41
1:c:275:PHE:HB3	1:c:383:ASN:HB3	2.02	0.41
1:d:313:LEU:HD13	1:d:684:ILE:HG12	2.02	0.41
1:d:404:MET:C	1:d:405:LEU:HD12	2.45	0.41
1:e:287:ASN:O	1:e:618:PRO:HA	2.20	0.41
1:e:720:GLY:HA2	1:h:258:TYR:O	2.21	0.41
1:f:427:ALA:O	1:f:734:THR:HA	2.20	0.41
1:h:313:LEU:HD13	1:h:684:ILE:HG12	2.03	0.41
1:h:631:HIS:ND1	1:h:631:HIS:O	2.53	0.41
1:k:258:TYR:O	1:w:720:GLY:HA2	2.21	0.41
1:k:425:SER:O	1:k:731:ARG:HA	2.21	0.41
1:l:427:ALA:O	1:l:734:THR:HA	2.21	0.41
1:m:427:ALA:O	1:m:734:THR:HA	2.21	0.41
1:n:631:HIS:O	1:n:631:HIS:ND1	2.54	0.41
1:o:275:PHE:HB3	1:o:383:ASN:HB3	2.02	0.41
1:p:275:PHE:HB3	1:p:383:ASN:HB3	2.02	0.41
1:p:313:LEU:HD13	1:p:684:ILE:HG12	2.02	0.41
1:q:581:VAL:HG23	1:r:487:ARG:O	2.21	0.41
1:r:510:LYS:HD2	1:r:517:ASN:HB3	2.02	0.41
1:s:425:SER:O	1:s:731:ARG:HA	2.21	0.41
1:s:426:TYR:HE1	1:s:428:HIS:CE1	2.38	0.41
1:t:313:LEU:HD13	1:t:684:ILE:HG12	2.02	0.41
1:u:287:ASN:O	1:u:618:PRO:HA	2.20	0.41
1:w:288:ARG:CZ	1:w:290:HIS:CE1	3.03	0.41
1:w:490:ARG:NH1	1:y:585:LEU:HD23	2.36	0.41
1:3:699:GLU:HB2	1:3:701:GLN:HE21	1.84	0.41
1:6:287:ASN:O	1:6:618:PRO:HA	2.20	0.41
1:A:258:TYR:O	1:B:720:GLY:HA2	2.21	0.41
1:A:427:ALA:O	1:A:734:THR:HA	2.20	0.41
1:A:585:LEU:HD23	1:G:490:ARG:NH1	2.36	0.41
1:B:313:LEU:HD13	1:B:684:ILE:HG12	2.03	0.41
1:B:581:VAL:HG23	1:J:487:ARG:O	2.21	0.41
1:B:585:LEU:HD23	1:J:490:ARG:NH1	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:PHE:HB3	1:C:383:ASN:HB3	2.02	0.41
1:C:585:LEU:HD23	1:b:490:ARG:NH1	2.36	0.41
1:D:425:SER:O	1:D:731:ARG:HA	2.21	0.41
1:E:585:LEU:HD23	1:Q:490:ARG:NH1	2.36	0.41
1:H:426:TYR:HE1	1:H:428:HIS:CE1	2.38	0.41
1:H:427:ALA:O	1:H:734:THR:HA	2.20	0.41
1:J:288:ARG:CZ	1:J:290:HIS:CE1	3.03	0.41
1:J:581:VAL:HG23	1:L:487:ARG:O	2.21	0.41
1:L:313:LEU:HD13	1:L:684:ILE:HG12	2.03	0.41
1:L:427:ALA:O	1:L:734:THR:HA	2.20	0.41
1:L:720:GLY:HA2	1:b:258:TYR:O	2.21	0.41
1:M:290:HIS:HD2	1:M:366:PRO:CA	2.34	0.41
1:M:313:LEU:HD13	1:M:684:ILE:HG12	2.03	0.41
1:M:631:HIS:ND1	1:M:631:HIS:O	2.53	0.41
1:N:275:PHE:HB3	1:N:383:ASN:HB3	2.02	0.41
1:O:490:ARG:NH1	1:n:585:LEU:HD23	2.36	0.41
1:O:631:HIS:ND1	1:O:631:HIS:O	2.53	0.41
1:Q:404:MET:C	1:Q:405:LEU:HD12	2.45	0.41
1:R:258:TYR:O	1:V:720:GLY:HA2	2.21	0.41
1:R:425:SER:O	1:R:731:ARG:HA	2.21	0.41
1:S:288:ARG:CZ	1:S:290:HIS:CE1	3.03	0.41
1:S:510:LYS:HD2	1:S:517:ASN:HB3	2.02	0.41
1:T:510:LYS:HD2	1:T:517:ASN:HB3	2.02	0.41
1:T:581:VAL:HG23	1:d:487:ARG:O	2.21	0.41
1:T:720:GLY:HA2	1:U:258:TYR:O	2.21	0.41
1:U:288:ARG:CZ	1:U:290:HIS:CE1	3.03	0.41
1:U:425:SER:O	1:U:731:ARG:HA	2.21	0.41
1:U:426:TYR:HE1	1:U:428:HIS:CE1	2.38	0.41
1:U:545:PHE:HB2	1:U:560:LEU:HB2	2.02	0.41
1:X:275:PHE:HB3	1:X:383:ASN:HB3	2.02	0.41
1:X:545:PHE:HB2	1:X:560:LEU:HB2	2.02	0.41
1:Y:313:LEU:HD13	1:Y:684:ILE:HG12	2.02	0.41
1:Y:433:ASP:OD1	1:Y:433:ASP:N	2.50	0.41
1:Z:581:VAL:HG23	1:4:487:ARG:O	2.21	0.41
1:a:699:GLU:HB2	1:a:701:GLN:HE21	1.84	0.41
1:b:425:SER:O	1:b:731:ARG:HA	2.21	0.41
1:c:287:ASN:O	1:c:618:PRO:HA	2.20	0.41
1:c:427:ALA:O	1:c:734:THR:HA	2.20	0.41
1:c:487:ARG:O	1:p:581:VAL:HG23	2.21	0.41
1:d:427:ALA:O	1:d:734:THR:HA	2.20	0.41
1:d:510:LYS:HD2	1:d:517:ASN:HB3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:585:LEU:HD23	1:l:490:ARG:NH1	2.36	0.41
1:e:427:ALA:O	1:e:734:THR:HA	2.20	0.41
1:f:258:TYR:O	1:z:720:GLY:HA2	2.21	0.41
1:f:425:SER:O	1:f:731:ARG:HA	2.21	0.41
1:f:490:ARG:NH1	1:g:585:LEU:HD23	2.36	0.41
1:g:425:SER:O	1:g:731:ARG:HA	2.21	0.41
1:h:425:SER:O	1:h:731:ARG:HA	2.21	0.41
1:i:275:PHE:HB3	1:i:383:ASN:HB3	2.02	0.41
1:i:425:SER:O	1:i:731:ARG:HA	2.21	0.41
1:j:545:PHE:HB2	1:j:560:LEU:HB2	2.02	0.41
1:k:631:HIS:ND1	1:k:631:HIS:O	2.54	0.41
1:m:425:SER:O	1:m:731:ARG:HA	2.21	0.41
1:m:510:LYS:HD2	1:m:517:ASN:HB3	2.02	0.41
1:m:720:GLY:HA2	1:s:258:TYR:O	2.21	0.41
1:n:313:LEU:HD13	1:n:684:ILE:HG12	2.02	0.41
1:n:427:ALA:O	1:n:734:THR:HA	2.20	0.41
1:n:510:LYS:HD2	1:n:517:ASN:HB3	2.02	0.41
1:o:545:PHE:HB2	1:o:560:LEU:HB2	2.02	0.41
1:o:612:ASP:OD1	1:o:730:THR:OG1	2.34	0.41
1:p:720:GLY:HA2	1:q:258:TYR:O	2.21	0.41
1:r:288:ARG:CZ	1:r:290:HIS:CE1	3.03	0.41
1:s:545:PHE:HB2	1:s:560:LEU:HB2	2.02	0.41
1:t:490:ARG:NH1	1:v:585:LEU:HD23	2.36	0.41
1:t:510:LYS:HD2	1:t:517:ASN:HB3	2.02	0.41
1:v:290:HIS:HD2	1:v:366:PRO:CA	2.33	0.41
1:v:427:ALA:O	1:v:734:THR:HA	2.21	0.41
1:w:585:LEU:HD23	1:x:490:ARG:NH1	2.36	0.41
1:x:290:HIS:HD2	1:x:366:PRO:CA	2.33	0.41
1:y:290:HIS:HD2	1:y:366:PRO:CA	2.33	0.41
1:y:631:HIS:ND1	1:y:631:HIS:O	2.53	0.41
1:z:313:LEU:HD13	1:z:684:ILE:HG12	2.03	0.41
1:z:487:ARG:O	1:2:581:VAL:HG23	2.21	0.41
1:1:313:LEU:HD13	1:1:684:ILE:HG12	2.03	0.41
1:1:581:VAL:HG23	1:2:487:ARG:O	2.21	0.41
1:2:288:ARG:CZ	1:2:290:HIS:CE1	3.03	0.41
1:3:323:LYS:NZ	1:3:336:ASN:OD1	2.35	0.41
1:3:427:ALA:O	1:3:734:THR:HA	2.20	0.41
1:5:426:TYR:HE1	1:5:428:HIS:CE1	2.38	0.41
1:5:427:ALA:O	1:5:734:THR:HA	2.20	0.41
1:6:581:VAL:HG23	1:7:487:ARG:O	2.21	0.41
1:6:631:HIS:ND1	1:6:631:HIS:O	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:313:LEU:HD13	1:7:684:ILE:HG12	2.02	0.41
1:8:290:HIS:HD2	1:8:366:PRO:CA	2.34	0.41
1:8:425:SER:O	1:8:731:ARG:HA	2.21	0.41
1:A:290:HIS:HD2	1:A:366:PRO:CA	2.34	0.41
1:B:490:ARG:NH1	1:L:585:LEU:HD23	2.36	0.41
1:E:428:HIS:HE1	1:Q:625:HIS:O	2.05	0.41
1:F:290:HIS:HD2	1:F:366:PRO:CA	2.33	0.41
1:F:313:LEU:HD13	1:F:684:ILE:HG12	2.03	0.41
1:G:510:LYS:HD2	1:G:517:ASN:HB3	2.02	0.41
1:I:426:TYR:HE1	1:I:428:HIS:CE1	2.38	0.41
1:K:720:GLY:HA2	1:L:258:TYR:O	2.21	0.41
1:L:425:SER:O	1:L:731:ARG:HA	2.21	0.41
1:M:425:SER:O	1:M:731:ARG:HA	2.21	0.41
1:N:427:ALA:O	1:N:734:THR:HA	2.20	0.41
1:O:275:PHE:HB3	1:O:383:ASN:HB3	2.02	0.41
1:O:510:LYS:HD2	1:O:517:ASN:HB3	2.02	0.41
1:R:585:LEU:HD23	1:S:490:ARG:NH1	2.36	0.41
1:S:426:TYR:HE1	1:S:428:HIS:CE1	2.38	0.41
1:T:425:SER:O	1:T:731:ARG:HA	2.21	0.41
1:U:427:ALA:O	1:U:734:THR:HA	2.20	0.41
1:V:290:HIS:CD2	1:V:366:PRO:HG3	2.55	0.41
1:Y:510:LYS:HD2	1:Y:517:ASN:HB3	2.02	0.41
1:c:510:LYS:HD2	1:c:517:ASN:HB3	2.02	0.41
1:e:631:HIS:ND1	1:e:631:HIS:O	2.53	0.41
1:g:275:PHE:HB3	1:g:383:ASN:HB3	2.02	0.41
1:g:290:HIS:HD2	1:g:366:PRO:CA	2.33	0.41
1:h:510:LYS:HD2	1:h:517:ASN:HB3	2.02	0.41
1:i:427:ALA:O	1:i:734:THR:HA	2.20	0.41
1:l:510:LYS:HD2	1:l:517:ASN:HB3	2.02	0.41
1:l:631:HIS:ND1	1:l:631:HIS:O	2.54	0.41
1:q:425:SER:O	1:q:731:ARG:HA	2.21	0.41
1:q:585:LEU:HD23	1:r:490:ARG:NH1	2.36	0.41
1:r:258:TYR:O	1:x:720:GLY:HA2	2.21	0.41
1:r:532:ASP:OD1	1:s:384:ASN:ND2	2.43	0.41
1:s:287:ASN:O	1:s:618:PRO:HA	2.20	0.41
1:s:288:ARG:CZ	1:s:290:HIS:CE1	3.03	0.41
1:s:427:ALA:O	1:s:734:THR:HA	2.20	0.41
1:v:236:LEU:HD11	1:v:239[B]:ARG:NH1	2.36	0.41
1:v:258:TYR:O	1:1:720:GLY:HA2	2.21	0.41
1:v:425:SER:O	1:v:731:ARG:HA	2.21	0.41
1:w:313:LEU:HD13	1:w:684:ILE:HG12	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:404:MET:C	1:x:405:LEU:HD12	2.45	0.41
1:x:427:ALA:O	1:x:734:THR:HA	2.21	0.41
1:y:313:LEU:HD13	1:y:684:ILE:HG12	2.03	0.41
1:z:425:SER:O	1:z:731:ARG:HA	2.21	0.41
1:z:585:LEU:HD23	1:1:490:ARG:NH1	2.36	0.41
1:1:631:HIS:O	1:1:631:HIS:ND1	2.53	0.41
1:5:585:LEU:HD23	1:6:490:ARG:NH1	2.36	0.41
1:A:625:HIS:O	1:I:428:HIS:HE1	2.05	0.40
1:B:631:HIS:O	1:B:631:HIS:ND1	2.53	0.40
1:C:288:ARG:CZ	1:C:290:HIS:CE1	3.03	0.40
1:C:487:ARG:O	1:M:581:VAL:HG23	2.21	0.40
1:E:313:LEU:HD13	1:E:684:ILE:HG12	2.03	0.40
1:H:490:ARG:NH1	1:Y:585:LEU:HD23	2.36	0.40
1:H:585:LEU:HD23	1:W:490:ARG:NH1	2.36	0.40
1:I:323:LYS:NZ	1:I:336:ASN:OD1	2.35	0.40
1:J:236:LEU:HD11	1:J:239[B]:ARG:NH1	2.36	0.40
1:J:585:LEU:HD23	1:L:490:ARG:NH1	2.36	0.40
1:J:720:GLY:HA2	1:a:258:TYR:O	2.21	0.40
1:K:290:HIS:HD2	1:K:366:PRO:CA	2.34	0.40
1:K:490:ARG:NH1	1:8:585:LEU:HD23	2.36	0.40
1:M:510:LYS:HD2	1:M:517:ASN:HB3	2.02	0.40
1:O:258:TYR:O	1:d:720:GLY:HA2	2.21	0.40
1:P:425:SER:O	1:P:731:ARG:HA	2.21	0.40
1:Q:720:GLY:HA2	1:S:258:TYR:O	2.21	0.40
1:V:258:TYR:O	1:W:720:GLY:HA2	2.21	0.40
1:V:490:ARG:NH1	1:X:585:LEU:HD23	2.36	0.40
1:W:288:ARG:CZ	1:W:290:HIS:CE1	3.03	0.40
1:X:426:TYR:HE1	1:X:428:HIS:CE1	2.38	0.40
1:Y:720:GLY:HA2	1:4:258:TYR:O	2.21	0.40
1:Z:490:ARG:NH1	1:3:585:LEU:HD23	2.36	0.40
1:a:585:LEU:HD23	1:8:490:ARG:NH1	2.36	0.40
1:b:720:GLY:HA2	1:o:258:TYR:O	2.21	0.40
1:c:585:LEU:HD23	1:o:490:ARG:NH1	2.36	0.40
1:c:631:HIS:ND1	1:c:631:HIS:O	2.53	0.40
1:d:425:SER:O	1:d:731:ARG:HA	2.21	0.40
1:e:510:LYS:HD2	1:e:517:ASN:HB3	2.02	0.40
1:g:288:ARG:CZ	1:g:290:HIS:CE1	3.03	0.40
1:g:487:ARG:O	1:h:581:VAL:HG23	2.21	0.40
1:g:631:HIS:ND1	1:g:631:HIS:O	2.54	0.40
1:h:290:HIS:HD2	1:h:366:PRO:CA	2.34	0.40
1:i:426:TYR:HE1	1:i:428:HIS:CE1	2.38	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:433:ASP:N	1:i:433:ASP:OD1	2.50	0.40
1:i:585:LEU:HD23	1:j:490:ARG:NH1	2.36	0.40
1:j:585:LEU:HD23	1:k:490:ARG:NH1	2.36	0.40
1:l:258:TYR:O	1:n:720:GLY:HA2	2.21	0.40
1:l:545:PHE:HB2	1:l:560:LEU:HB2	2.02	0.40
1:n:288:ARG:CZ	1:n:290:HIS:CE1	3.03	0.40
1:n:323:LYS:NZ	1:n:336:ASN:OD1	2.35	0.40
1:o:585:LEU:HD23	1:p:490:ARG:NH1	2.36	0.40
1:p:290:HIS:CD2	1:p:366:PRO:HG3	2.55	0.40
1:q:490:ARG:NH1	1:s:585:LEU:HD23	2.36	0.40
1:r:426:TYR:HE1	1:r:428:HIS:CE1	2.38	0.40
1:r:585:LEU:HD23	1:s:490:ARG:NH1	2.36	0.40
1:u:426:TYR:HE1	1:u:428:HIS:CE1	2.38	0.40
1:v:631:HIS:ND1	1:v:631:HIS:O	2.53	0.40
1:x:585:LEU:HD23	1:y:490:ARG:NH1	2.36	0.40
1:z:258:TYR:O	1:4:720:GLY:HA2	2.21	0.40
1:z:427:ALA:O	1:z:734:THR:HA	2.20	0.40
1:1:585:LEU:HD23	1:2:490:ARG:NH1	2.36	0.40
1:5:490:ARG:NH1	1:7:585:LEU:HD23	2.36	0.40
1:6:236:LEU:HD11	1:6:239[B]:ARG:NH1	2.36	0.40
1:6:288:ARG:CZ	1:6:290:HIS:CE1	3.03	0.40
1:A:275:PHE:HB3	1:A:383:ASN:HB3	2.02	0.40
1:A:425:SER:O	1:A:731:ARG:HA	2.21	0.40
1:A:631:HIS:ND1	1:A:631:HIS:O	2.53	0.40
1:C:258:TYR:O	1:D:720:GLY:HA2	2.21	0.40
1:C:290:HIS:HD2	1:C:366:PRO:CA	2.34	0.40
1:C:510:LYS:HD2	1:C:517:ASN:HB3	2.02	0.40
1:C:625:HIS:O	1:M:428:HIS:HE1	2.05	0.40
1:E:367:PHE:HA	1:E:368:PRO:HD3	1.99	0.40
1:F:426:TYR:HE1	1:F:428:HIS:CE1	2.38	0.40
1:F:490:ARG:NH1	1:Q:585:LEU:HD23	2.36	0.40
1:I:425:SER:O	1:I:731:ARG:HA	2.21	0.40
1:J:487:ARG:NH2	1:J:598:ASN:OD1	2.53	0.40
1:K:258:TYR:O	1:7:720:GLY:HA2	2.21	0.40
1:K:287:ASN:O	1:K:618:PRO:HA	2.20	0.40
1:L:275:PHE:HB3	1:L:383:ASN:HB3	2.02	0.40
1:L:288:ARG:CZ	1:L:290:HIS:CE1	3.03	0.40
1:L:510:LYS:HD2	1:L:517:ASN:HB3	2.02	0.40
1:O:545:PHE:HB2	1:O:560:LEU:HB2	2.02	0.40
1:Q:427:ALA:O	1:Q:734:THR:HA	2.21	0.40
1:R:275:PHE:HB3	1:R:383:ASN:HB3	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:490:ARG:NH1	1:U:585:LEU:HD23	2.36	0.40
1:S:585:LEU:HD23	1:U:490:ARG:NH1	2.36	0.40
1:U:287:ASN:O	1:U:618:PRO:HA	2.20	0.40
1:W:426:TYR:HE1	1:W:428:HIS:CE1	2.38	0.40
1:X:258:TYR:O	1:f:720:GLY:HA2	2.21	0.40
1:X:425:SER:O	1:X:731:ARG:HA	2.21	0.40
1:X:490:ARG:NH1	1:e:585:LEU:HD23	2.36	0.40
1:Z:258:TYR:O	1:a:720:GLY:HA2	2.21	0.40
1:Z:585:LEU:HD23	1:4:490:ARG:NH1	2.36	0.40
1:f:428:HIS:HE1	1:h:625:HIS:O	2.05	0.40
1:g:510:LYS:HD2	1:g:517:ASN:HB3	2.02	0.40
1:g:612:ASP:OD1	1:g:730:THR:OG1	2.34	0.40
1:j:581:VAL:HG23	1:k:487:ARG:O	2.21	0.40
1:l:275:PHE:HB3	1:l:383:ASN:HB3	2.02	0.40
1:m:275:PHE:HB3	1:m:383:ASN:HB3	2.02	0.40
1:n:425:SER:O	1:n:731:ARG:HA	2.21	0.40
1:o:426:TYR:HE1	1:o:428:HIS:CE1	2.38	0.40
1:p:258:TYR:O	1:6:720:GLY:HA2	2.21	0.40
1:p:426:TYR:HE1	1:p:428:HIS:CE1	2.38	0.40
1:q:275:PHE:HB3	1:q:383:ASN:HB3	2.02	0.40
1:t:258:TYR:O	1:y:720:GLY:HA2	2.21	0.40
1:u:323:LYS:NZ	1:u:336:ASN:OD1	2.35	0.40
1:u:428:HIS:HE1	1:v:625:HIS:O	2.05	0.40
1:v:510:LYS:HD2	1:v:517:ASN:HB3	2.02	0.40
1:w:367:PHE:HA	1:w:368:PRO:HD3	2.00	0.40
1:w:428:HIS:HE1	1:x:625:HIS:O	2.05	0.40
1:z:490:ARG:NH1	1:2:585:LEU:HD23	2.36	0.40
1:1:545:PHE:HB2	1:1:560:LEU:HB2	2.02	0.40
1:2:287:ASN:O	1:2:618:PRO:HA	2.20	0.40
1:2:720:GLY:HA2	1:3:258:TYR:O	2.21	0.40
1:3:288:ARG:CZ	1:3:290:HIS:CE1	3.03	0.40
1:3:433:ASP:OD1	1:3:433:ASP:N	2.50	0.40
1:3:720:GLY:HA2	1:8:258:TYR:O	2.21	0.40
1:4:290:HIS:HD2	1:4:366:PRO:CA	2.34	0.40
1:4:313:LEU:HD13	1:4:684:ILE:HG12	2.02	0.40
1:7:510:LYS:HD2	1:7:517:ASN:HB3	2.03	0.40
1:B:545:PHE:HB2	1:B:560:LEU:HB2	2.02	0.40
1:C:631:HIS:ND1	1:C:631:HIS:O	2.54	0.40
1:D:635:LEU:HD11	1:P:481:LEU:HG	2.03	0.40
1:F:487:ARG:O	1:Q:581:VAL:HG23	2.21	0.40
1:F:720:GLY:HA2	1:G:258:TYR:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:631:HIS:ND1	1:G:631:HIS:O	2.53	0.40
1:G:713:ASP:HB3	1:G:725:PRO:HG3	2.04	0.40
1:I:713:ASP:HB3	1:I:725:PRO:HG3	2.04	0.40
1:K:313:LEU:HD13	1:K:684:ILE:HG12	2.02	0.40
1:K:487:ARG:NH2	1:K:598:ASN:OD1	2.53	0.40
1:M:625:HIS:O	1:b:428:HIS:HE1	2.05	0.40
1:N:426:TYR:HE1	1:N:428:HIS:CE1	2.38	0.40
1:N:433:ASP:N	1:N:433:ASP:OD1	2.50	0.40
1:O:290:HIS:HD2	1:O:366:PRO:CA	2.34	0.40
1:O:425:SER:O	1:O:731:ARG:HA	2.21	0.40
1:P:427:ALA:O	1:P:734:THR:HA	2.20	0.40
1:T:275:PHE:HB3	1:T:383:ASN:HB3	2.02	0.40
1:V:426:TYR:HE1	1:V:428:HIS:CE1	2.38	0.40
1:a:288:ARG:CZ	1:a:290:HIS:CE1	3.03	0.40
1:c:258:TYR:O	1:s:720:GLY:HA2	2.21	0.40
1:c:425:SER:O	1:c:731:ARG:HA	2.21	0.40
1:d:288:ARG:CZ	1:d:290:HIS:CE1	3.03	0.40
1:g:625:HIS:O	1:h:428:HIS:HE1	2.05	0.40
1:j:425:SER:O	1:j:731:ARG:HA	2.21	0.40
1:j:427:ALA:O	1:j:734:THR:HA	2.20	0.40
1:l:425:SER:O	1:l:731:ARG:HA	2.21	0.40
1:o:425:SER:O	1:o:731:ARG:HA	2.21	0.40
1:r:713:ASP:HB3	1:r:725:PRO:HG3	2.04	0.40
1:t:713:ASP:HB3	1:t:725:PRO:HG3	2.04	0.40
1:u:510:LYS:HD2	1:u:517:ASN:HB3	2.02	0.40
1:u:713:ASP:HB3	1:u:725:PRO:HG3	2.04	0.40
1:v:275:PHE:HB3	1:v:383:ASN:HB3	2.02	0.40
1:w:564:GLU:OE2	1:w:614:TYR:OH	2.15	0.40
1:y:426:TYR:HE1	1:y:428:HIS:CE1	2.38	0.40
1:z:288:ARG:CZ	1:z:290:HIS:CE1	3.03	0.40
1:2:236:LEU:HD11	1:2:239[B]:ARG:NH1	2.36	0.40
1:2:425:SER:O	1:2:731:ARG:HA	2.21	0.40
1:2:487:ARG:NH2	1:2:598:ASN:OD1	2.53	0.40
1:6:426:TYR:HE1	1:6:428:HIS:CE1	2.38	0.40
1:6:585:LEU:HD23	1:7:490:ARG:NH1	2.36	0.40
1:A:510:LYS:HD2	1:A:517:ASN:HB3	2.02	0.40
1:C:427:ALA:O	1:C:734:THR:HA	2.20	0.40
1:G:428:HIS:HE1	1:I:625:HIS:O	2.05	0.40
1:H:290:HIS:HD2	1:H:366:PRO:CA	2.33	0.40
1:I:510:LYS:HD2	1:I:517:ASN:HB3	2.02	0.40
1:J:287:ASN:O	1:J:618:PRO:HA	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:425:SER:O	1:J:731:ARG:HA	2.21	0.40
1:K:428:HIS:HE1	1:a:625:HIS:O	2.05	0.40
1:M:275:PHE:HB3	1:M:383:ASN:HB3	2.02	0.40
1:M:545:PHE:HB2	1:M:560:LEU:HB2	2.02	0.40
1:N:581:VAL:HG23	1:P:487:ARG:O	2.20	0.40
1:S:713:ASP:HB3	1:S:725:PRO:HG3	2.04	0.40
1:S:720:GLY:HA2	1:d:258:TYR:O	2.21	0.40
1:U:720:GLY:HA2	1:e:258:TYR:O	2.21	0.40
1:V:510:LYS:HD2	1:V:517:ASN:HB3	2.02	0.40
1:W:313:LEU:HD13	1:W:684:ILE:HG12	2.02	0.40
1:W:585:LEU:HD23	1:Y:490:ARG:NH1	2.36	0.40
1:Z:713:ASP:HB3	1:Z:725:PRO:HG3	2.04	0.40
1:a:367:PHE:HA	1:a:368:PRO:HD3	1.99	0.40
1:a:433:ASP:OD1	1:a:433:ASP:N	2.50	0.40
1:d:426:TYR:HE1	1:d:428:HIS:CE1	2.38	0.40
1:e:425:SER:O	1:e:731:ARG:HA	2.21	0.40
1:g:258:TYR:O	1:k:720:GLY:HA2	2.21	0.40
1:j:720:GLY:HA2	1:x:258:TYR:O	2.21	0.40
1:m:323:LYS:NZ	1:m:336:ASN:OD1	2.35	0.40
1:n:258:TYR:O	1:r:720:GLY:HA2	2.21	0.40
1:p:510:LYS:HD2	1:p:517:ASN:HB3	2.02	0.40
1:p:512:HIS:ND1	1:p:517:ASN:OD1	2.45	0.40
1:q:487:ARG:O	1:s:581:VAL:HG23	2.21	0.40
1:r:433:ASP:OD1	1:r:433:ASP:N	2.50	0.40
1:t:631:HIS:ND1	1:t:631:HIS:O	2.53	0.40
1:u:425:SER:O	1:u:731:ARG:HA	2.21	0.40
1:u:585:LEU:HD23	1:v:490:ARG:NH1	2.36	0.40
1:v:487:ARG:NH2	1:v:598:ASN:OD1	2.53	0.40
1:w:425:SER:O	1:w:731:ARG:HA	2.21	0.40
1:x:428:HIS:HE1	1:y:625:HIS:O	2.05	0.40
1:z:275:PHE:HB3	1:z:383:ASN:HB3	2.02	0.40
1:z:510:LYS:HD2	1:z:517:ASN:HB3	2.02	0.40
1:3:625:HIS:O	1:4:428:HIS:HE1	2.05	0.40
1:4:287:ASN:O	1:4:618:PRO:HA	2.20	0.40
1:8:713:ASP:HB3	1:8:725:PRO:HG3	2.04	0.40
1:A:487:ARG:NH2	1:A:598:ASN:OD1	2.53	0.40
1:B:713:ASP:HB3	1:B:725:PRO:HG3	2.04	0.40
1:D:713:ASP:HB3	1:D:725:PRO:HG3	2.04	0.40
1:E:425:SER:O	1:E:731:ARG:HA	2.21	0.40
1:F:625:HIS:O	1:Q:428:HIS:HE1	2.05	0.40
1:G:585:LEU:HD23	1:I:490:ARG:NH1	2.36	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:288:ARG:CZ	1:I:290:HIS:CE1	3.03	0.40
1:M:323:LYS:NZ	1:M:336:ASN:OD1	2.35	0.40
1:M:490:ARG:NH1	1:b:585:LEU:HD23	2.36	0.40
1:N:236:LEU:HD11	1:N:239[B]:ARG:NH1	2.36	0.40
1:N:428:HIS:O	1:P:382:LEU:HD11	2.22	0.40
1:N:720:GLY:HA2	1:m:258:TYR:O	2.21	0.40
1:O:323:LYS:NZ	1:O:336:ASN:OD1	2.35	0.40
1:O:585:LEU:HD23	1:m:490:ARG:NH1	2.36	0.40
1:P:343:GLN:HG2	1:P:404:MET:HG2	2.04	0.40
1:R:426:TYR:HE1	1:R:428:HIS:CE1	2.38	0.40
1:R:487:ARG:O	1:U:581:VAL:HG23	2.21	0.40
1:T:258:TYR:O	1:i:720:GLY:HA2	2.21	0.40
1:T:490:ARG:NH1	1:l:585:LEU:HD23	2.36	0.40
1:Y:425:SER:O	1:Y:731:ARG:HA	2.21	0.40
1:Z:313:LEU:HD13	1:Z:684:ILE:HG12	2.03	0.40
1:Z:625:HIS:O	1:3:428:HIS:HE1	2.05	0.40
1:a:428:HIS:HE1	1:8:625:HIS:O	2.05	0.40
1:c:290:HIS:HD2	1:c:366:PRO:CA	2.34	0.40
1:c:343:GLN:HG2	1:c:404:MET:HG2	2.04	0.40
1:e:290:HIS:HD2	1:e:366:PRO:CA	2.33	0.40
1:h:275:PHE:HB3	1:h:383:ASN:HB3	2.02	0.40
1:h:427:ALA:O	1:h:734:THR:HA	2.20	0.40
1:h:545:PHE:HB2	1:h:560:LEU:HB2	2.02	0.40
1:i:236:LEU:HD11	1:i:239[B]:ARG:NH1	2.36	0.40
1:j:343:GLN:HG2	1:j:404:MET:HG2	2.04	0.40
1:l:290:HIS:HD2	1:l:366:PRO:CA	2.34	0.40
1:n:426:TYR:HE1	1:n:428:HIS:CE1	2.38	0.40
1:t:428:HIS:HE1	1:u:625:HIS:O	2.05	0.40
1:v:720:GLY:HA2	1:w:258:TYR:O	2.21	0.40
1:x:581:VAL:HG23	1:y:487:ARG:O	2.21	0.40
1:3:313:LEU:HD13	1:3:684:ILE:HG12	2.02	0.40
1:4:487:ARG:NH2	1:4:598:ASN:OD1	2.53	0.40
1:4:631:HIS:O	1:4:631:HIS:ND1	2.53	0.40
1:5:290:HIS:HD2	1:5:366:PRO:CA	2.33	0.40
1:7:631:HIS:O	1:7:631:HIS:ND1	2.53	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	2	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	3	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	4	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	5	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	6	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	7	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	8	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	A	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	B	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	C	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	D	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	E	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	F	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	G	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	H	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	I	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	J	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	K	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	L	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	M	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	N	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	O	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	P	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	Q	519/520 (100%)	505 (97%)	14 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	S	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	T	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	U	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	V	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	W	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	X	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	Y	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	Z	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	a	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	b	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	c	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	d	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	e	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	f	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	g	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	h	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	i	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	j	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	k	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	l	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	m	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	n	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	o	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	p	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	q	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	r	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	s	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	t	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	u	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	v	519/520 (100%)	505 (97%)	14 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	x	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	y	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	z	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
All	All	31140/31200 (100%)	30300 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

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

Continued on next page...

Continued from previous page...

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

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	452/452 (100%)	452 (100%)	0	100	100
1	p	452/452 (100%)	452 (100%)	0	100	100
1	q	452/452 (100%)	452 (100%)	0	100	100
1	r	452/452 (100%)	452 (100%)	0	100	100
1	s	452/452 (100%)	452 (100%)	0	100	100
1	t	452/452 (100%)	452 (100%)	0	100	100
1	u	452/452 (100%)	452 (100%)	0	100	100
1	v	452/452 (100%)	452 (100%)	0	100	100
1	w	452/452 (100%)	452 (100%)	0	100	100
1	x	452/452 (100%)	452 (100%)	0	100	100
1	y	452/452 (100%)	452 (100%)	0	100	100
1	z	452/452 (100%)	452 (100%)	0	100	100
All	All	27120/27120 (100%)	27120 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (752) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	230	HIS
1	A	254	ASN
1	A	256	HIS
1	A	272	ASN
1	A	290	HIS
1	A	321	GLN
1	A	428	HIS
1	A	430	GLN
1	A	558	ASN
1	A	595	GLN
1	A	625	HIS
1	A	647	GLN
1	B	230	HIS
1	B	254	ASN
1	B	256	HIS
1	B	290	HIS
1	B	321	GLN
1	B	428	HIS
1	B	430	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	558	ASN
1	B	586	GLN
1	B	595	GLN
1	B	625	HIS
1	B	647	GLN
1	C	230	HIS
1	C	254	ASN
1	C	256	HIS
1	C	290	HIS
1	C	321	GLN
1	C	428	HIS
1	C	430	GLN
1	C	558	ASN
1	C	586	GLN
1	C	595	GLN
1	C	625	HIS
1	C	647	GLN
1	D	230	HIS
1	D	254	ASN
1	D	256	HIS
1	D	272	ASN
1	D	290	HIS
1	D	428	HIS
1	D	430	GLN
1	D	558	ASN
1	D	586	GLN
1	D	595	GLN
1	D	625	HIS
1	D	647	GLN
1	E	230	HIS
1	E	254	ASN
1	E	256	HIS
1	E	290	HIS
1	E	321	GLN
1	E	428	HIS
1	E	430	GLN
1	E	558	ASN
1	E	586	GLN
1	E	595	GLN
1	E	625	HIS
1	E	647	GLN
1	F	230	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	254	ASN
1	F	256	HIS
1	F	272	ASN
1	F	290	HIS
1	F	321	GLN
1	F	428	HIS
1	F	430	GLN
1	F	558	ASN
1	F	586	GLN
1	F	595	GLN
1	F	625	HIS
1	F	647	GLN
1	G	230	HIS
1	G	254	ASN
1	G	256	HIS
1	G	290	HIS
1	G	321	GLN
1	G	428	HIS
1	G	430	GLN
1	G	558	ASN
1	G	595	GLN
1	G	625	HIS
1	G	647	GLN
1	H	230	HIS
1	H	254	ASN
1	H	256	HIS
1	H	272	ASN
1	H	290	HIS
1	H	428	HIS
1	H	430	GLN
1	H	558	ASN
1	H	586	GLN
1	H	595	GLN
1	H	625	HIS
1	H	647	GLN
1	I	230	HIS
1	I	254	ASN
1	I	256	HIS
1	I	272	ASN
1	I	290	HIS
1	I	321	GLN
1	I	428	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	430	GLN
1	I	558	ASN
1	I	586	GLN
1	I	595	GLN
1	I	625	HIS
1	I	647	GLN
1	J	230	HIS
1	J	254	ASN
1	J	256	HIS
1	J	272	ASN
1	J	290	HIS
1	J	428	HIS
1	J	430	GLN
1	J	558	ASN
1	J	586	GLN
1	J	595	GLN
1	J	625	HIS
1	J	647	GLN
1	K	230	HIS
1	K	254	ASN
1	K	256	HIS
1	K	290	HIS
1	K	321	GLN
1	K	428	HIS
1	K	430	GLN
1	K	558	ASN
1	K	586	GLN
1	K	595	GLN
1	K	625	HIS
1	K	647	GLN
1	L	230	HIS
1	L	256	HIS
1	L	272	ASN
1	L	290	HIS
1	L	321	GLN
1	L	376	GLN
1	L	428	HIS
1	L	430	GLN
1	L	558	ASN
1	L	586	GLN
1	L	595	GLN
1	L	625	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	647	GLN
1	M	230	HIS
1	M	254	ASN
1	M	256	HIS
1	M	272	ASN
1	M	290	HIS
1	M	321	GLN
1	M	428	HIS
1	M	430	GLN
1	M	558	ASN
1	M	586	GLN
1	M	595	GLN
1	M	625	HIS
1	M	647	GLN
1	N	230	HIS
1	N	254	ASN
1	N	256	HIS
1	N	272	ASN
1	N	290	HIS
1	N	321	GLN
1	N	428	HIS
1	N	430	GLN
1	N	558	ASN
1	N	586	GLN
1	N	595	GLN
1	N	625	HIS
1	N	647	GLN
1	O	230	HIS
1	O	254	ASN
1	O	256	HIS
1	O	272	ASN
1	O	290	HIS
1	O	428	HIS
1	O	430	GLN
1	O	558	ASN
1	O	586	GLN
1	O	595	GLN
1	O	625	HIS
1	O	647	GLN
1	P	230	HIS
1	P	254	ASN
1	P	256	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	272	ASN
1	P	290	HIS
1	P	321	GLN
1	P	428	HIS
1	P	430	GLN
1	P	558	ASN
1	P	586	GLN
1	P	595	GLN
1	P	625	HIS
1	P	647	GLN
1	Q	230	HIS
1	Q	254	ASN
1	Q	256	HIS
1	Q	272	ASN
1	Q	290	HIS
1	Q	321	GLN
1	Q	428	HIS
1	Q	430	GLN
1	Q	558	ASN
1	Q	586	GLN
1	Q	595	GLN
1	Q	625	HIS
1	Q	647	GLN
1	R	230	HIS
1	R	254	ASN
1	R	256	HIS
1	R	272	ASN
1	R	290	HIS
1	R	428	HIS
1	R	430	GLN
1	R	558	ASN
1	R	586	GLN
1	R	595	GLN
1	R	625	HIS
1	R	647	GLN
1	S	230	HIS
1	S	254	ASN
1	S	256	HIS
1	S	272	ASN
1	S	290	HIS
1	S	321	GLN
1	S	428	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	S	430	GLN
1	S	558	ASN
1	S	595	GLN
1	S	625	HIS
1	S	647	GLN
1	T	230	HIS
1	T	254	ASN
1	T	256	HIS
1	T	272	ASN
1	T	290	HIS
1	T	321	GLN
1	T	428	HIS
1	T	430	GLN
1	T	558	ASN
1	T	586	GLN
1	T	595	GLN
1	T	625	HIS
1	T	647	GLN
1	U	230	HIS
1	U	254	ASN
1	U	256	HIS
1	U	272	ASN
1	U	290	HIS
1	U	321	GLN
1	U	428	HIS
1	U	430	GLN
1	U	558	ASN
1	U	586	GLN
1	U	595	GLN
1	U	625	HIS
1	U	647	GLN
1	V	230	HIS
1	V	254	ASN
1	V	256	HIS
1	V	272	ASN
1	V	290	HIS
1	V	321	GLN
1	V	428	HIS
1	V	430	GLN
1	V	558	ASN
1	V	586	GLN
1	V	595	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	V	625	HIS
1	V	647	GLN
1	W	230	HIS
1	W	254	ASN
1	W	256	HIS
1	W	272	ASN
1	W	290	HIS
1	W	321	GLN
1	W	428	HIS
1	W	430	GLN
1	W	558	ASN
1	W	586	GLN
1	W	595	GLN
1	W	625	HIS
1	W	647	GLN
1	X	230	HIS
1	X	256	HIS
1	X	272	ASN
1	X	290	HIS
1	X	321	GLN
1	X	376	GLN
1	X	428	HIS
1	X	430	GLN
1	X	558	ASN
1	X	586	GLN
1	X	595	GLN
1	X	625	HIS
1	X	647	GLN
1	Y	230	HIS
1	Y	254	ASN
1	Y	256	HIS
1	Y	272	ASN
1	Y	290	HIS
1	Y	321	GLN
1	Y	428	HIS
1	Y	430	GLN
1	Y	558	ASN
1	Y	586	GLN
1	Y	595	GLN
1	Y	625	HIS
1	Y	647	GLN
1	Z	230	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Z	254	ASN
1	Z	256	HIS
1	Z	272	ASN
1	Z	290	HIS
1	Z	321	GLN
1	Z	428	HIS
1	Z	430	GLN
1	Z	558	ASN
1	Z	595	GLN
1	Z	625	HIS
1	Z	647	GLN
1	a	230	HIS
1	a	254	ASN
1	a	256	HIS
1	a	272	ASN
1	a	290	HIS
1	a	321	GLN
1	a	428	HIS
1	a	430	GLN
1	a	558	ASN
1	a	586	GLN
1	a	595	GLN
1	a	625	HIS
1	a	647	GLN
1	b	230	HIS
1	b	254	ASN
1	b	256	HIS
1	b	272	ASN
1	b	290	HIS
1	b	321	GLN
1	b	428	HIS
1	b	430	GLN
1	b	558	ASN
1	b	586	GLN
1	b	595	GLN
1	b	625	HIS
1	b	647	GLN
1	c	230	HIS
1	c	254	ASN
1	c	256	HIS
1	c	272	ASN
1	c	290	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	c	321	GLN
1	c	428	HIS
1	c	430	GLN
1	c	558	ASN
1	c	586	GLN
1	c	595	GLN
1	c	625	HIS
1	c	647	GLN
1	d	230	HIS
1	d	254	ASN
1	d	256	HIS
1	d	272	ASN
1	d	290	HIS
1	d	428	HIS
1	d	430	GLN
1	d	558	ASN
1	d	586	GLN
1	d	595	GLN
1	d	625	HIS
1	d	647	GLN
1	e	230	HIS
1	e	254	ASN
1	e	256	HIS
1	e	272	ASN
1	e	290	HIS
1	e	321	GLN
1	e	428	HIS
1	e	430	GLN
1	e	558	ASN
1	e	586	GLN
1	e	595	GLN
1	e	625	HIS
1	e	647	GLN
1	f	230	HIS
1	f	254	ASN
1	f	256	HIS
1	f	272	ASN
1	f	290	HIS
1	f	321	GLN
1	f	428	HIS
1	f	430	GLN
1	f	558	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	f	586	GLN
1	f	595	GLN
1	f	625	HIS
1	f	647	GLN
1	g	230	HIS
1	g	254	ASN
1	g	256	HIS
1	g	272	ASN
1	g	290	HIS
1	g	321	GLN
1	g	428	HIS
1	g	430	GLN
1	g	558	ASN
1	g	586	GLN
1	g	595	GLN
1	g	625	HIS
1	g	647	GLN
1	h	230	HIS
1	h	254	ASN
1	h	256	HIS
1	h	272	ASN
1	h	290	HIS
1	h	321	GLN
1	h	428	HIS
1	h	430	GLN
1	h	558	ASN
1	h	586	GLN
1	h	595	GLN
1	h	625	HIS
1	h	647	GLN
1	i	230	HIS
1	i	256	HIS
1	i	272	ASN
1	i	290	HIS
1	i	321	GLN
1	i	376	GLN
1	i	428	HIS
1	i	430	GLN
1	i	558	ASN
1	i	586	GLN
1	i	595	GLN
1	i	625	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	i	647	GLN
1	j	230	HIS
1	j	254	ASN
1	j	256	HIS
1	j	272	ASN
1	j	290	HIS
1	j	321	GLN
1	j	428	HIS
1	j	430	GLN
1	j	558	ASN
1	j	586	GLN
1	j	595	GLN
1	j	625	HIS
1	j	647	GLN
1	k	230	HIS
1	k	254	ASN
1	k	256	HIS
1	k	272	ASN
1	k	290	HIS
1	k	428	HIS
1	k	430	GLN
1	k	558	ASN
1	k	586	GLN
1	k	595	GLN
1	k	625	HIS
1	k	647	GLN
1	l	230	HIS
1	l	254	ASN
1	l	256	HIS
1	l	272	ASN
1	l	290	HIS
1	l	321	GLN
1	l	428	HIS
1	l	430	GLN
1	l	558	ASN
1	l	586	GLN
1	l	595	GLN
1	l	625	HIS
1	l	647	GLN
1	m	230	HIS
1	m	254	ASN
1	m	256	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	m	272	ASN
1	m	290	HIS
1	m	321	GLN
1	m	428	HIS
1	m	430	GLN
1	m	558	ASN
1	m	586	GLN
1	m	595	GLN
1	m	625	HIS
1	m	647	GLN
1	n	230	HIS
1	n	254	ASN
1	n	256	HIS
1	n	272	ASN
1	n	290	HIS
1	n	428	HIS
1	n	430	GLN
1	n	558	ASN
1	n	586	GLN
1	n	595	GLN
1	n	625	HIS
1	n	647	GLN
1	o	230	HIS
1	o	254	ASN
1	o	256	HIS
1	o	272	ASN
1	o	290	HIS
1	o	321	GLN
1	o	428	HIS
1	o	430	GLN
1	o	558	ASN
1	o	586	GLN
1	o	595	GLN
1	o	625	HIS
1	o	647	GLN
1	p	230	HIS
1	p	254	ASN
1	p	256	HIS
1	p	272	ASN
1	p	290	HIS
1	p	321	GLN
1	p	428	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	p	430	GLN
1	p	558	ASN
1	p	586	GLN
1	p	595	GLN
1	p	625	HIS
1	p	647	GLN
1	q	230	HIS
1	q	254	ASN
1	q	256	HIS
1	q	272	ASN
1	q	290	HIS
1	q	321	GLN
1	q	428	HIS
1	q	430	GLN
1	q	558	ASN
1	q	586	GLN
1	q	595	GLN
1	q	625	HIS
1	q	647	GLN
1	r	230	HIS
1	r	254	ASN
1	r	256	HIS
1	r	272	ASN
1	r	290	HIS
1	r	321	GLN
1	r	428	HIS
1	r	430	GLN
1	r	558	ASN
1	r	595	GLN
1	r	625	HIS
1	r	647	GLN
1	s	230	HIS
1	s	254	ASN
1	s	256	HIS
1	s	272	ASN
1	s	290	HIS
1	s	428	HIS
1	s	430	GLN
1	s	558	ASN
1	s	586	GLN
1	s	595	GLN
1	s	625	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	s	647	GLN
1	t	230	HIS
1	t	254	ASN
1	t	256	HIS
1	t	290	HIS
1	t	321	GLN
1	t	428	HIS
1	t	430	GLN
1	t	558	ASN
1	t	595	GLN
1	t	625	HIS
1	t	647	GLN
1	u	230	HIS
1	u	254	ASN
1	u	256	HIS
1	u	272	ASN
1	u	290	HIS
1	u	321	GLN
1	u	428	HIS
1	u	430	GLN
1	u	558	ASN
1	u	586	GLN
1	u	595	GLN
1	u	625	HIS
1	u	647	GLN
1	v	230	HIS
1	v	254	ASN
1	v	256	HIS
1	v	290	HIS
1	v	321	GLN
1	v	428	HIS
1	v	430	GLN
1	v	558	ASN
1	v	595	GLN
1	v	625	HIS
1	v	647	GLN
1	w	230	HIS
1	w	254	ASN
1	w	256	HIS
1	w	290	HIS
1	w	321	GLN
1	w	428	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	w	430	GLN
1	w	558	ASN
1	w	586	GLN
1	w	595	GLN
1	w	625	HIS
1	w	647	GLN
1	x	230	HIS
1	x	254	ASN
1	x	256	HIS
1	x	272	ASN
1	x	290	HIS
1	x	321	GLN
1	x	428	HIS
1	x	430	GLN
1	x	558	ASN
1	x	586	GLN
1	x	595	GLN
1	x	625	HIS
1	x	647	GLN
1	y	230	HIS
1	y	254	ASN
1	y	256	HIS
1	y	272	ASN
1	y	290	HIS
1	y	321	GLN
1	y	428	HIS
1	y	430	GLN
1	y	558	ASN
1	y	586	GLN
1	y	595	GLN
1	y	625	HIS
1	y	647	GLN
1	z	230	HIS
1	z	256	HIS
1	z	272	ASN
1	z	290	HIS
1	z	321	GLN
1	z	376	GLN
1	z	428	HIS
1	z	430	GLN
1	z	558	ASN
1	z	586	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	z	595	GLN
1	z	625	HIS
1	z	647	GLN
1	1	230	HIS
1	1	254	ASN
1	1	256	HIS
1	1	290	HIS
1	1	321	GLN
1	1	428	HIS
1	1	430	GLN
1	1	558	ASN
1	1	586	GLN
1	1	595	GLN
1	1	625	HIS
1	1	647	GLN
1	2	230	HIS
1	2	254	ASN
1	2	256	HIS
1	2	272	ASN
1	2	290	HIS
1	2	428	HIS
1	2	430	GLN
1	2	558	ASN
1	2	586	GLN
1	2	595	GLN
1	2	625	HIS
1	2	647	GLN
1	3	230	HIS
1	3	254	ASN
1	3	256	HIS
1	3	272	ASN
1	3	290	HIS
1	3	321	GLN
1	3	428	HIS
1	3	430	GLN
1	3	558	ASN
1	3	586	GLN
1	3	595	GLN
1	3	625	HIS
1	3	647	GLN
1	4	230	HIS
1	4	254	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	4	256	HIS
1	4	272	ASN
1	4	290	HIS
1	4	321	GLN
1	4	428	HIS
1	4	430	GLN
1	4	558	ASN
1	4	586	GLN
1	4	595	GLN
1	4	625	HIS
1	4	647	GLN
1	5	230	HIS
1	5	254	ASN
1	5	256	HIS
1	5	272	ASN
1	5	290	HIS
1	5	428	HIS
1	5	430	GLN
1	5	558	ASN
1	5	586	GLN
1	5	595	GLN
1	5	625	HIS
1	5	647	GLN
1	6	230	HIS
1	6	254	ASN
1	6	256	HIS
1	6	272	ASN
1	6	290	HIS
1	6	321	GLN
1	6	428	HIS
1	6	430	GLN
1	6	558	ASN
1	6	586	GLN
1	6	595	GLN
1	6	625	HIS
1	6	647	GLN
1	7	230	HIS
1	7	254	ASN
1	7	256	HIS
1	7	272	ASN
1	7	290	HIS
1	7	321	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	7	428	HIS
1	7	430	GLN
1	7	558	ASN
1	7	586	GLN
1	7	595	GLN
1	7	625	HIS
1	7	647	GLN
1	8	230	HIS
1	8	254	ASN
1	8	256	HIS
1	8	272	ASN
1	8	290	HIS
1	8	321	GLN
1	8	428	HIS
1	8	430	GLN
1	8	558	ASN
1	8	595	GLN
1	8	625	HIS
1	8	647	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	D5M	w	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	F	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	2	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	s	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	n	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	g	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	e	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	M	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	E	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	L	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	D	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	X	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	Q	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	O	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	5	801	-	21,24,24	0.76	0	24,36,36	1.05	2 (8%)
2	D5M	J	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	d	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	c	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	3	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	A	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	o	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	q	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	P	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	p	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	r	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	b	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	l	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	Y	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	4	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	W	801	-	21,24,24	0.76	0	24,36,36	1.05	2 (8%)
2	D5M	V	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	y	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	h	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	D5M	7	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	S	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	x	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	C	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	a	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	U	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	I	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	Z	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	u	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	G	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	H	801	-	21,24,24	0.76	0	24,36,36	1.05	2 (8%)
2	D5M	T	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	i	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	k	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	f	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	1	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	8	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	K	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	t	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	v	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	z	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	N	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	m	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	6	801	-	21,24,24	0.76	0	24,36,36	1.05	2 (8%)
2	D5M	R	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	B	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	j	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)

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	D5M	w	801	-	-	0/6/22/22	0/3/3/3
2	D5M	F	801	-	-	0/6/22/22	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	2	801	-	-	0/6/22/22	0/3/3/3
2	D5M	s	801	-	-	0/6/22/22	0/3/3/3
2	D5M	n	801	-	-	0/6/22/22	0/3/3/3
2	D5M	g	801	-	-	0/6/22/22	0/3/3/3
2	D5M	e	801	-	-	0/6/22/22	0/3/3/3
2	D5M	M	801	-	-	0/6/22/22	0/3/3/3
2	D5M	E	801	-	-	0/6/22/22	0/3/3/3
2	D5M	L	801	-	-	0/6/22/22	0/3/3/3
2	D5M	D	801	-	-	0/6/22/22	0/3/3/3
2	D5M	X	801	-	-	0/6/22/22	0/3/3/3
2	D5M	Q	801	-	-	0/6/22/22	0/3/3/3
2	D5M	O	801	-	-	0/6/22/22	0/3/3/3
2	D5M	5	801	-	-	0/6/22/22	0/3/3/3
2	D5M	J	801	-	-	0/6/22/22	0/3/3/3
2	D5M	d	801	-	-	0/6/22/22	0/3/3/3
2	D5M	c	801	-	-	0/6/22/22	0/3/3/3
2	D5M	3	801	-	-	0/6/22/22	0/3/3/3
2	D5M	A	801	-	-	0/6/22/22	0/3/3/3
2	D5M	o	801	-	-	0/6/22/22	0/3/3/3
2	D5M	q	801	-	-	0/6/22/22	0/3/3/3
2	D5M	P	801	-	-	0/6/22/22	0/3/3/3
2	D5M	p	801	-	-	0/6/22/22	0/3/3/3
2	D5M	r	801	-	-	0/6/22/22	0/3/3/3
2	D5M	b	801	-	-	0/6/22/22	0/3/3/3
2	D5M	l	801	-	-	0/6/22/22	0/3/3/3
2	D5M	Y	801	-	-	0/6/22/22	0/3/3/3
2	D5M	4	801	-	-	0/6/22/22	0/3/3/3
2	D5M	W	801	-	-	0/6/22/22	0/3/3/3
2	D5M	V	801	-	-	0/6/22/22	0/3/3/3
2	D5M	y	801	-	-	0/6/22/22	0/3/3/3
2	D5M	h	801	-	-	0/6/22/22	0/3/3/3
2	D5M	7	801	-	-	0/6/22/22	0/3/3/3
2	D5M	S	801	-	-	0/6/22/22	0/3/3/3
2	D5M	x	801	-	-	0/6/22/22	0/3/3/3
2	D5M	C	801	-	-	0/6/22/22	0/3/3/3
2	D5M	a	801	-	-	0/6/22/22	0/3/3/3
2	D5M	U	801	-	-	0/6/22/22	0/3/3/3
2	D5M	I	801	-	-	0/6/22/22	0/3/3/3
2	D5M	Z	801	-	-	0/6/22/22	0/3/3/3
2	D5M	u	801	-	-	0/6/22/22	0/3/3/3
2	D5M	G	801	-	-	0/6/22/22	0/3/3/3
2	D5M	H	801	-	-	0/6/22/22	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	T	801	-	-	0/6/22/22	0/3/3/3
2	D5M	i	801	-	-	0/6/22/22	0/3/3/3
2	D5M	k	801	-	-	0/6/22/22	0/3/3/3
2	D5M	f	801	-	-	0/6/22/22	0/3/3/3
2	D5M	1	801	-	-	0/6/22/22	0/3/3/3
2	D5M	8	801	-	-	0/6/22/22	0/3/3/3
2	D5M	K	801	-	-	0/6/22/22	0/3/3/3
2	D5M	t	801	-	-	0/6/22/22	0/3/3/3
2	D5M	v	801	-	-	0/6/22/22	0/3/3/3
2	D5M	z	801	-	-	0/6/22/22	0/3/3/3
2	D5M	N	801	-	-	0/6/22/22	0/3/3/3
2	D5M	m	801	-	-	0/6/22/22	0/3/3/3
2	D5M	6	801	-	-	0/6/22/22	0/3/3/3
2	D5M	R	801	-	-	0/6/22/22	0/3/3/3
2	D5M	B	801	-	-	0/6/22/22	0/3/3/3
2	D5M	j	801	-	-	0/6/22/22	0/3/3/3

There are no bond length outliers.

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	801	D5M	C5-C6-N6	2.27	123.77	120.31
2	I	801	D5M	C5-C6-N6	2.26	123.75	120.31
2	Q	801	D5M	C5-C6-N6	2.26	123.75	120.31
2	u	801	D5M	C5-C6-N6	2.26	123.75	120.31
2	x	801	D5M	C5-C6-N6	2.26	123.75	120.31
2	j	801	D5M	C5-C6-N6	2.25	123.74	120.31
2	l	801	D5M	C5-C6-N6	2.25	123.74	120.31
2	G	801	D5M	C5-C6-N6	2.25	123.74	120.31
2	D	801	D5M	C5-C6-N6	2.25	123.74	120.31
2	h	801	D5M	C5-C6-N6	2.24	123.73	120.31
2	J	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	S	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	r	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	2	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	W	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	6	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	K	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	T	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	m	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	4	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	E	801	D5M	C5-C6-N6	2.24	123.72	120.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Z	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	w	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	8	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	H	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	k	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	5	801	D5M	C5-C6-N6	2.24	123.72	120.31
2	C	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	N	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	g	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	p	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	C	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	V	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	p	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	A	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	a	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	b	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	c	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	d	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	e	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	f	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	n	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	3	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	t	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	Y	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	i	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	7	801	D5M	C5-C6-N6	2.23	123.71	120.31
2	j	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	H	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	W	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	k	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	5	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	6	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	M	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	P	801	D5M	C5-C6-N6	2.23	123.70	120.31
2	A	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	F	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	a	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	b	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	c	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	d	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	e	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	f	801	D5M	O2P-P-O1P	2.23	119.51	110.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	v	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	y	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	3	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	O	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	X	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	i	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	l	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	n	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	o	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	w	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	t	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	D	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	Y	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	7	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	J	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	P	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	S	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	r	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	2	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	I	801	D5M	O2P-P-O1P	2.22	119.50	110.83
2	V	801	D5M	O2P-P-O1P	2.22	119.50	110.83
2	u	801	D5M	O2P-P-O1P	2.22	119.50	110.83
2	B	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	L	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	U	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	s	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	z	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	1	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	F	801	D5M	C5-C6-N6	2.22	123.69	120.31
2	v	801	D5M	C5-C6-N6	2.22	123.69	120.31
2	y	801	D5M	C5-C6-N6	2.22	123.69	120.31
2	Q	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	E	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	G	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	Z	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	h	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	8	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	K	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	T	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	m	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	4	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	g	801	D5M	C5-C6-N6	2.22	123.69	120.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	x	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	R	801	D5M	O2P-P-O1P	2.22	119.47	110.83
2	q	801	D5M	O2P-P-O1P	2.22	119.47	110.83
2	B	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	L	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	R	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	U	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	q	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	s	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	z	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	1	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	O	801	D5M	C5-C6-N6	2.21	123.67	120.31
2	X	801	D5M	C5-C6-N6	2.21	123.67	120.31
2	M	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	o	801	D5M	C5-C6-N6	2.20	123.66	120.31

There are no chirality outliers.

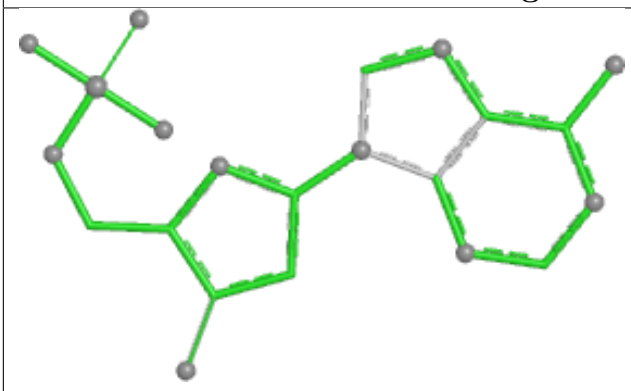
There are no torsion outliers.

There are no ring outliers.

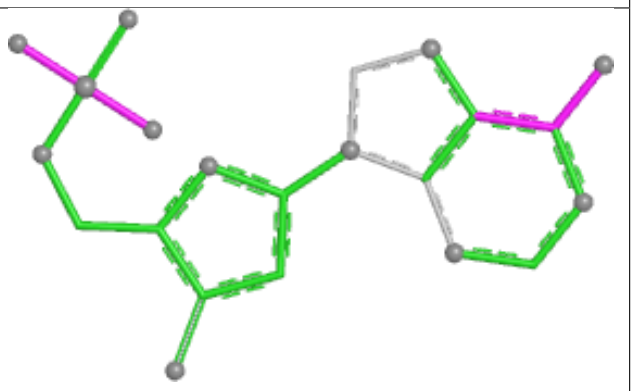
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

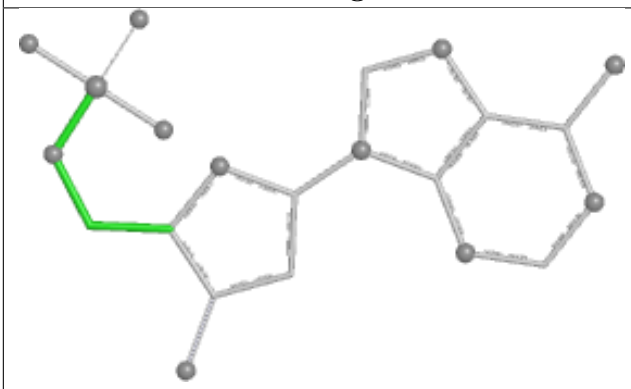
Ligand D5M w 801



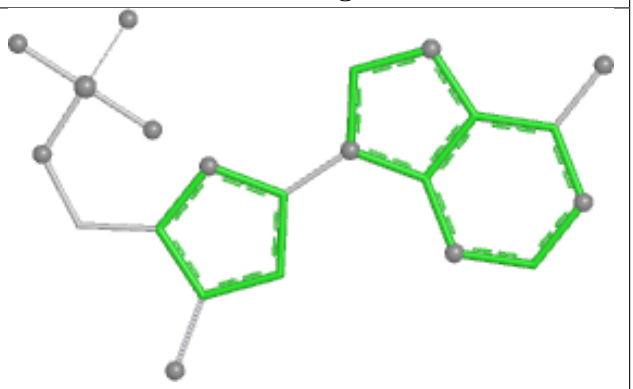
Bond lengths



Bond angles

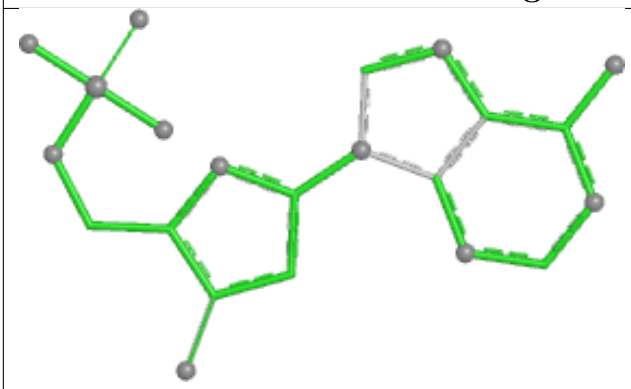


Torsions

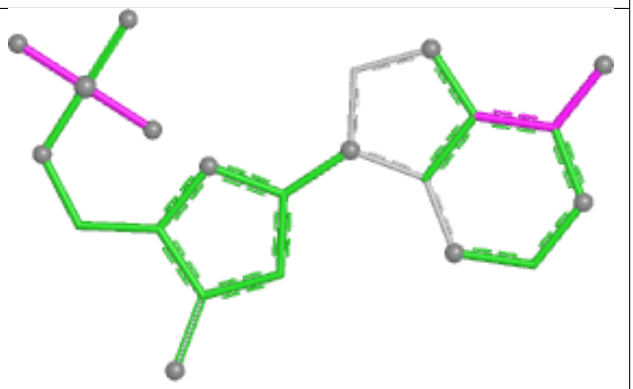


Rings

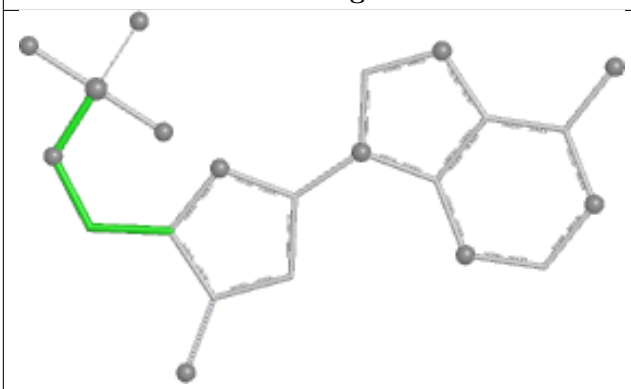
Ligand D5M F 801



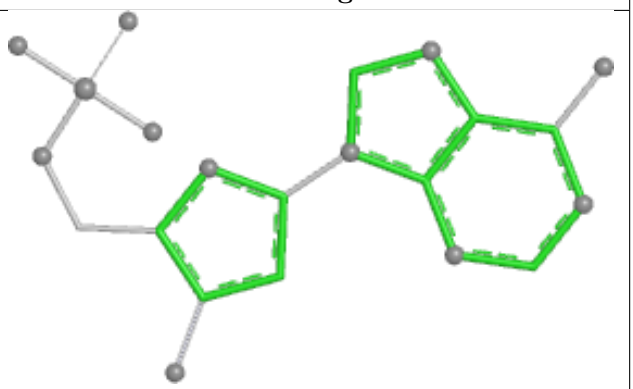
Bond lengths



Bond angles

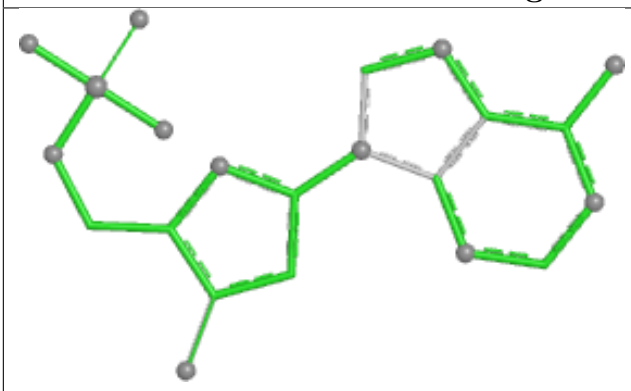


Torsions

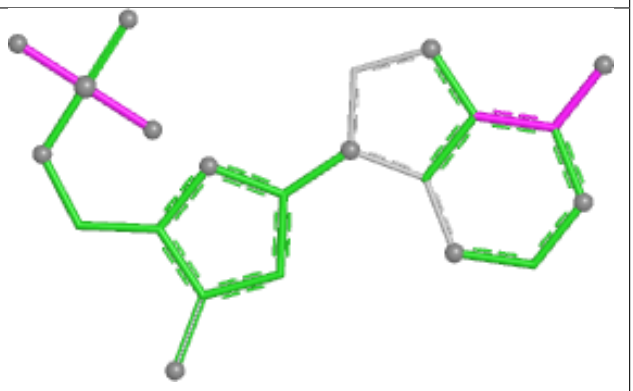


Rings

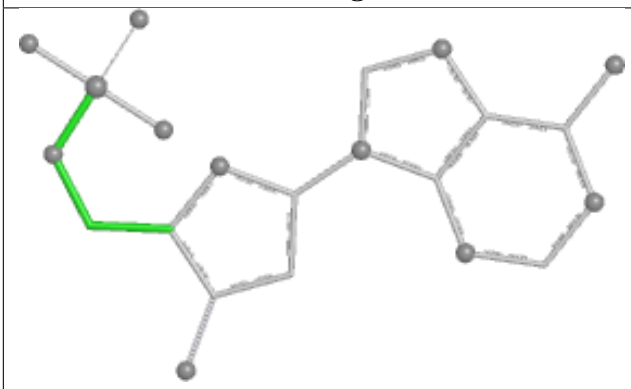
Ligand D5M 2 801



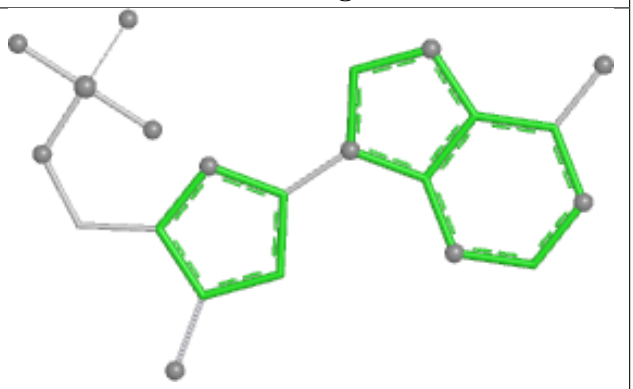
Bond lengths



Bond angles

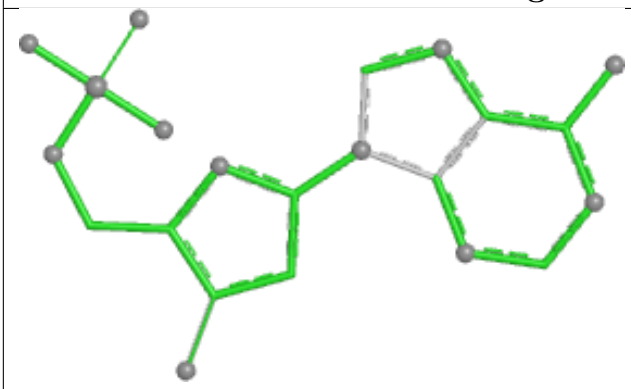


Torsions

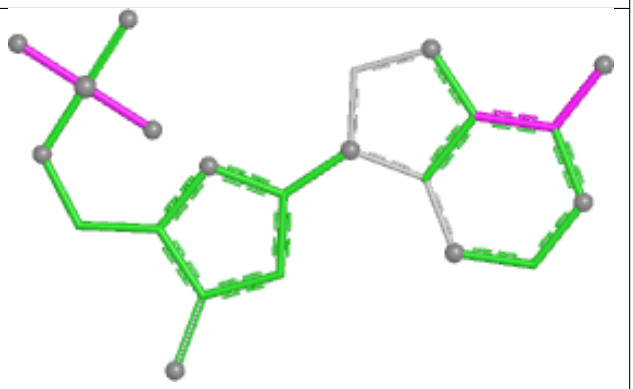


Rings

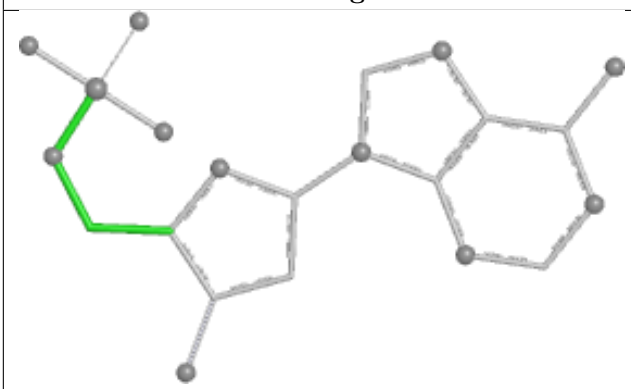
Ligand D5M s 801



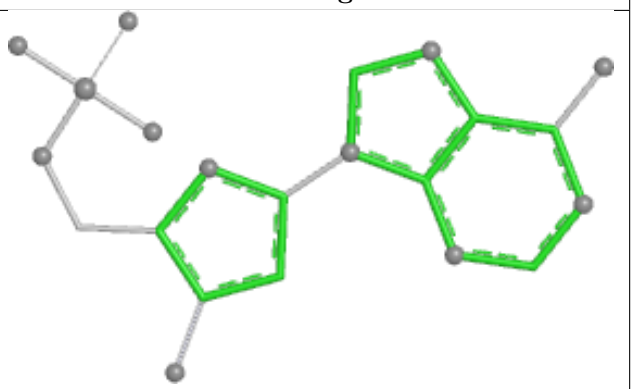
Bond lengths



Bond angles

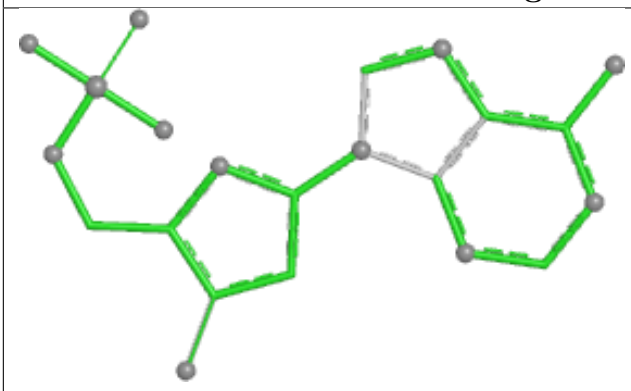


Torsions

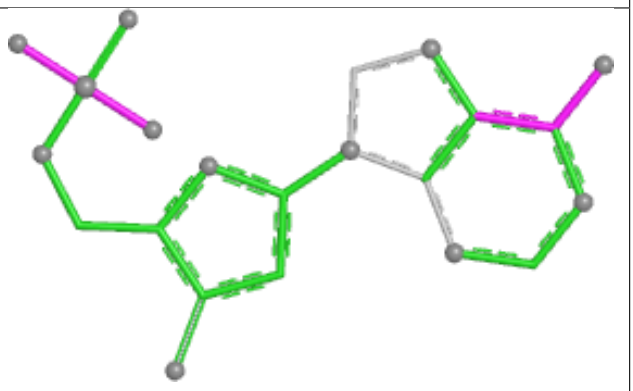


Rings

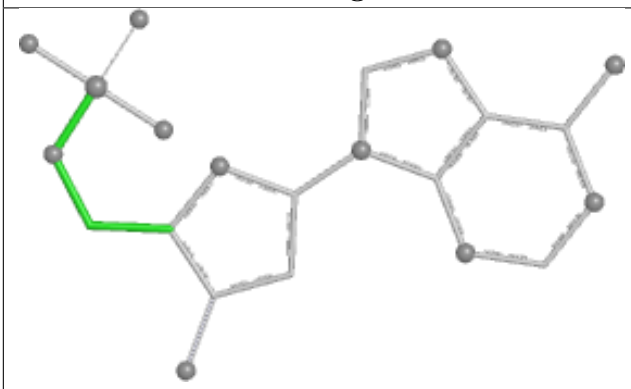
Ligand D5M n 801



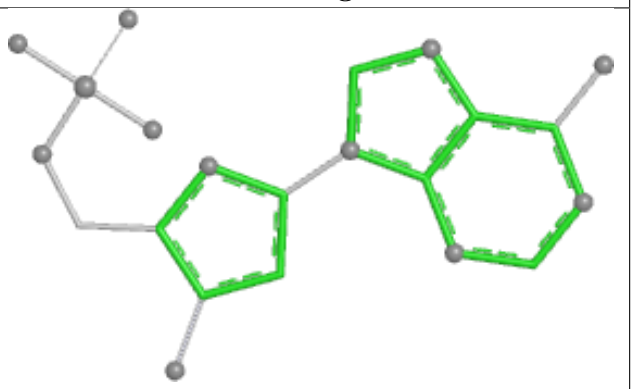
Bond lengths



Bond angles

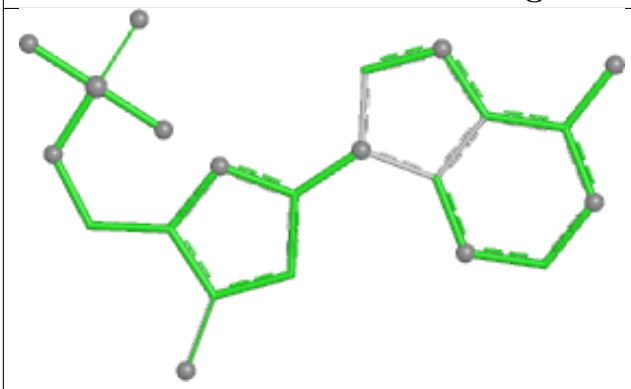


Torsions

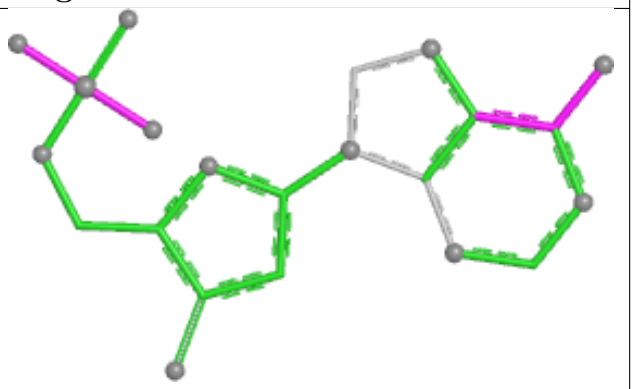


Rings

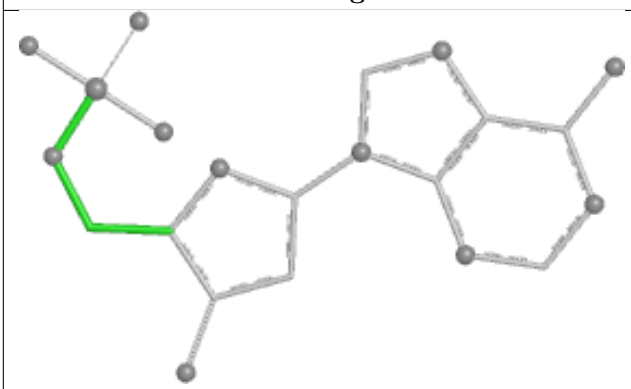
Ligand D5M g 801



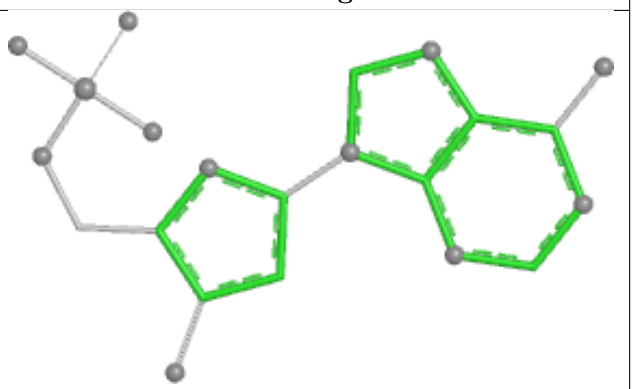
Bond lengths



Bond angles

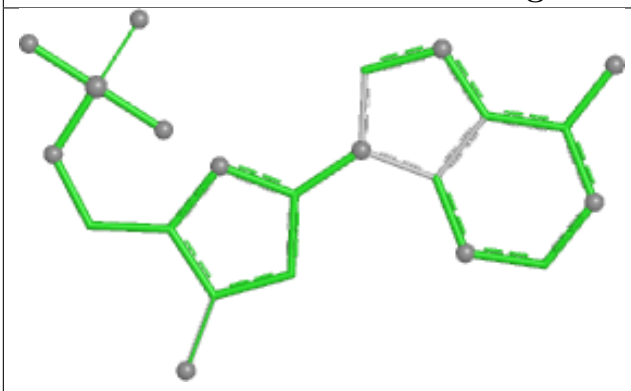


Torsions

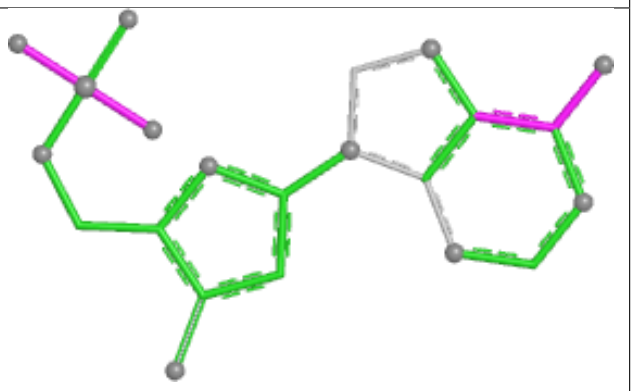


Rings

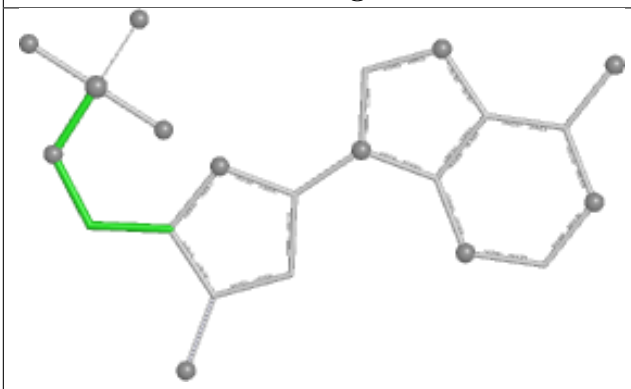
Ligand D5M e 801



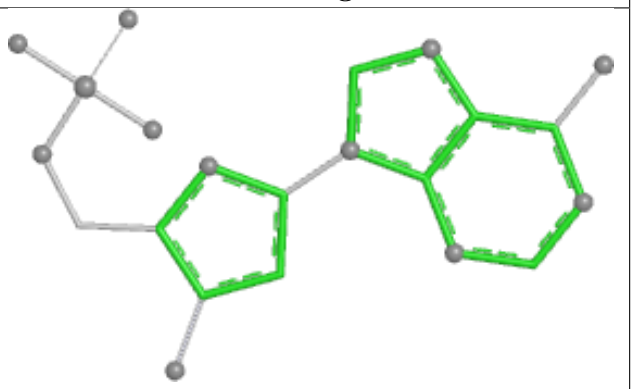
Bond lengths



Bond angles

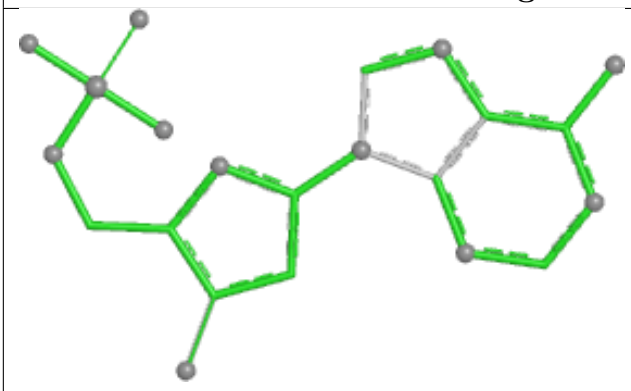


Torsions

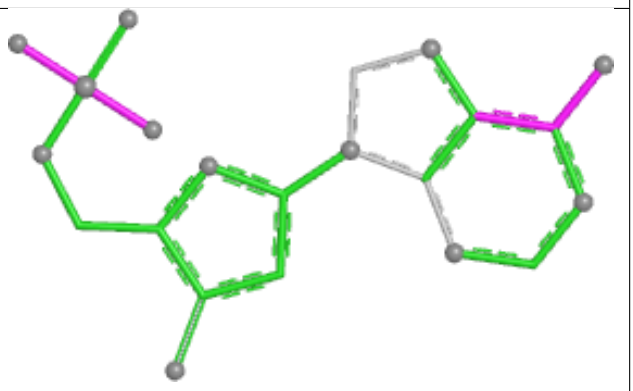


Rings

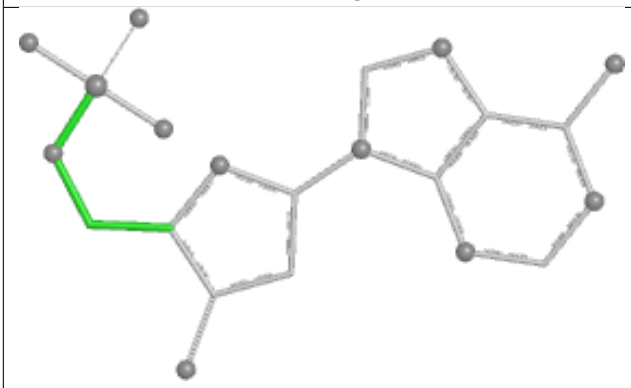
Ligand D5M M 801



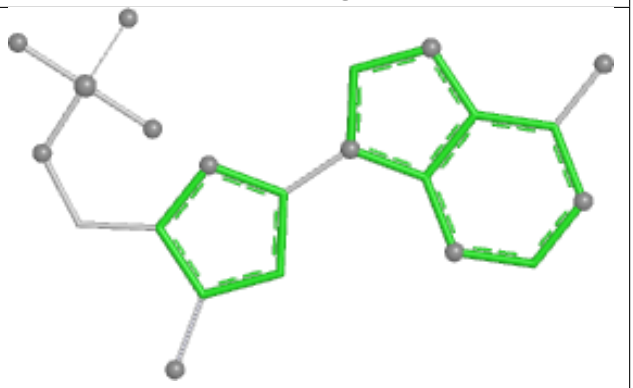
Bond lengths



Bond angles

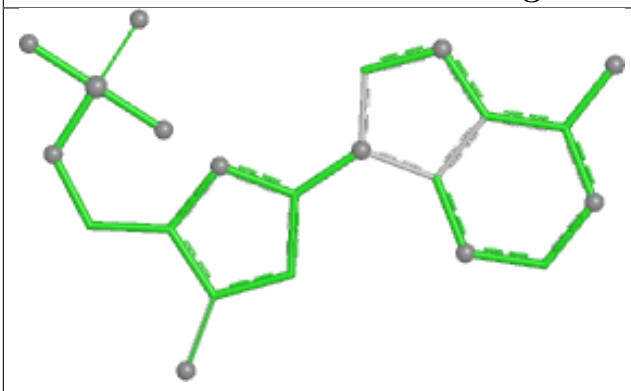


Torsions

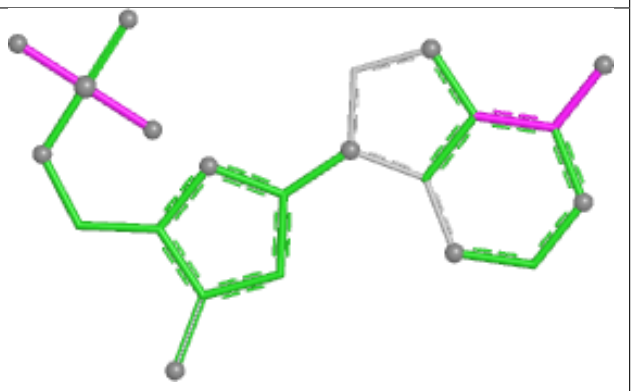


Rings

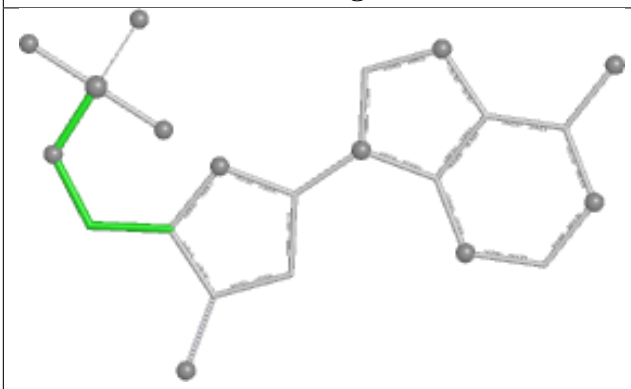
Ligand D5M E 801



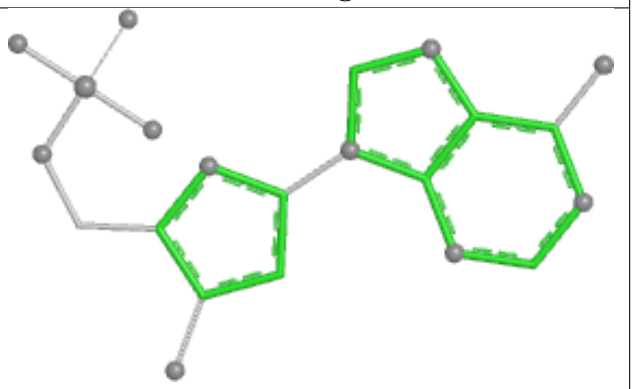
Bond lengths



Bond angles

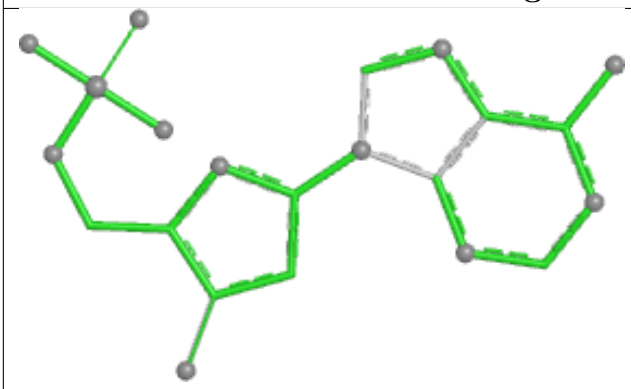


Torsions

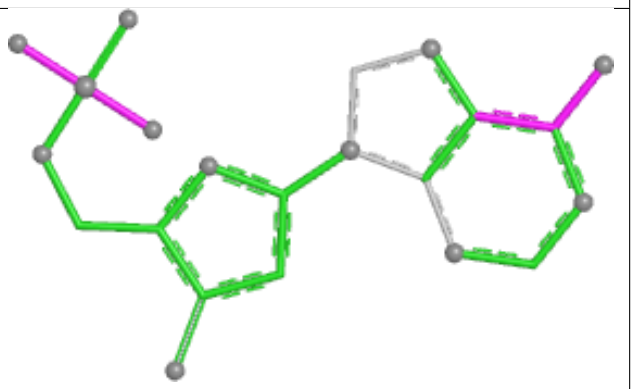


Rings

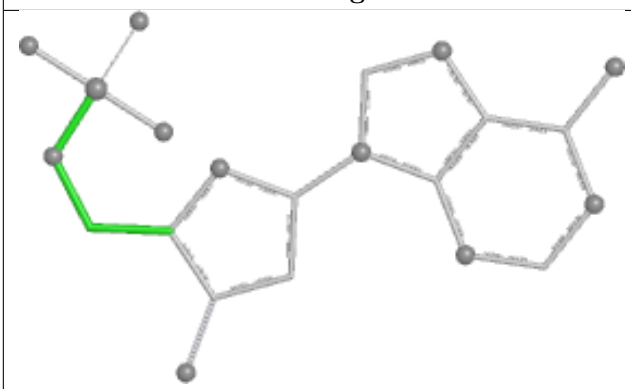
Ligand D5M L 801



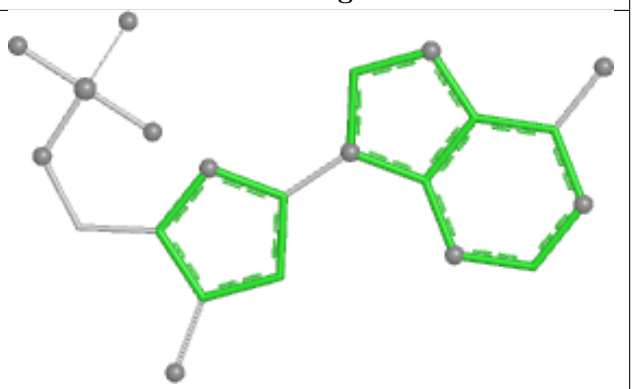
Bond lengths



Bond angles

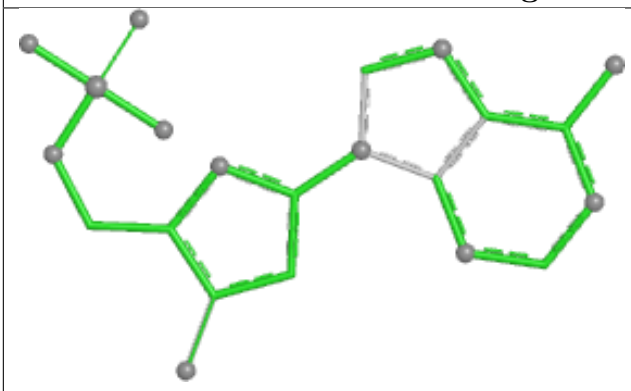


Torsions

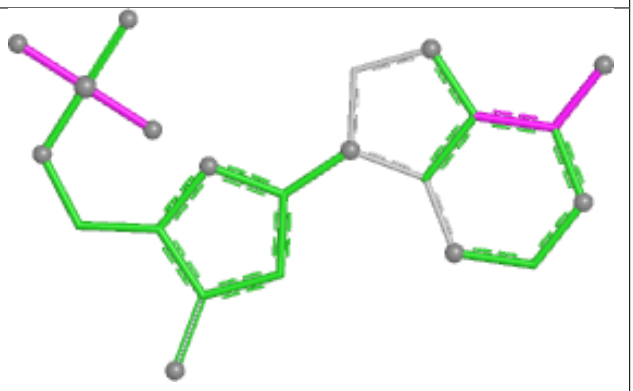


Rings

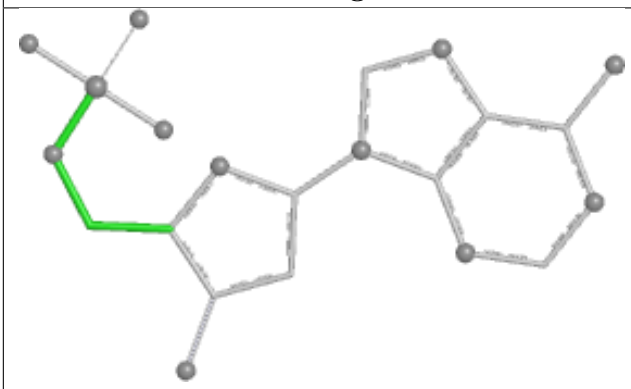
Ligand D5M D 801



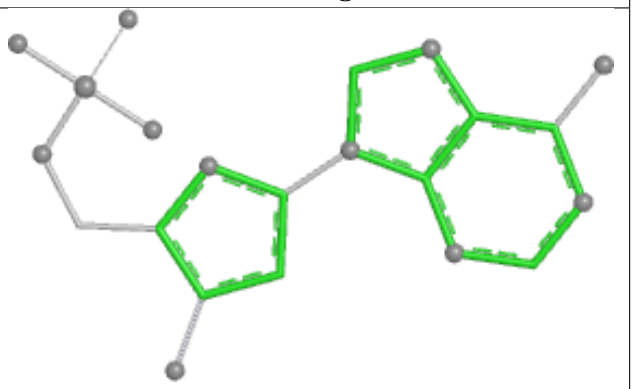
Bond lengths



Bond angles

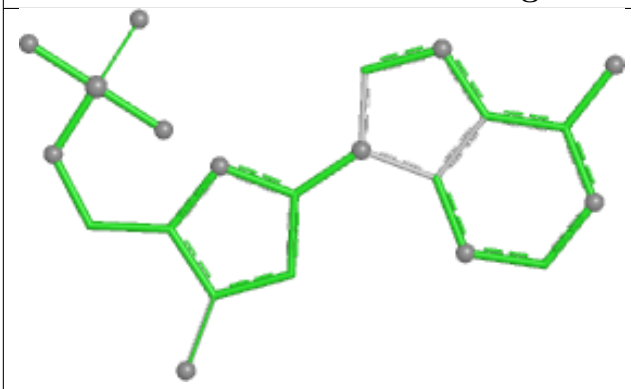


Torsions

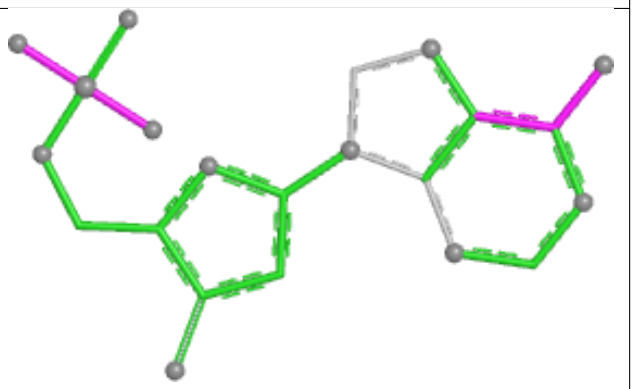


Rings

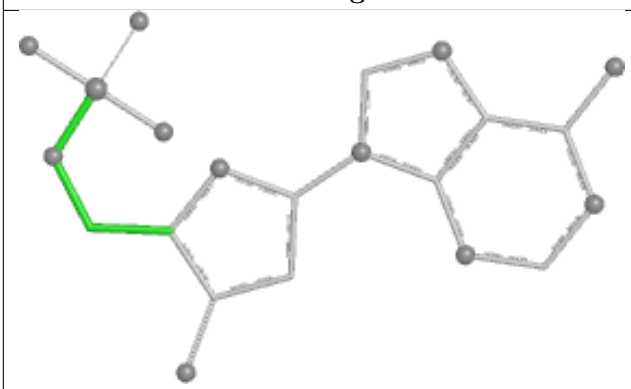
Ligand D5M X 801



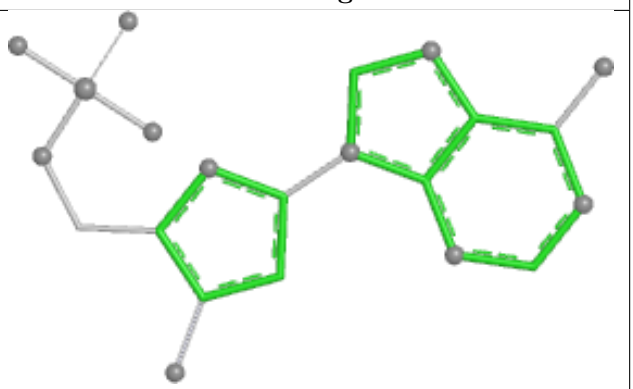
Bond lengths



Bond angles

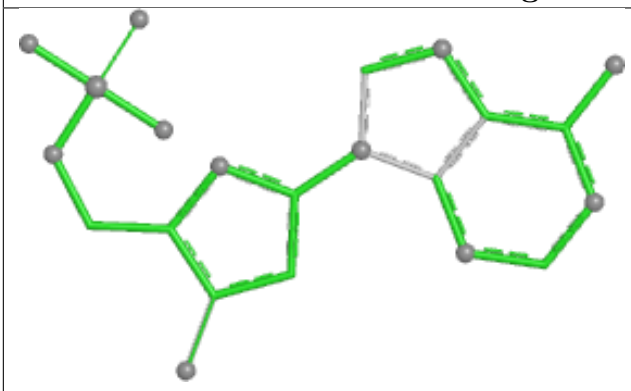


Torsions

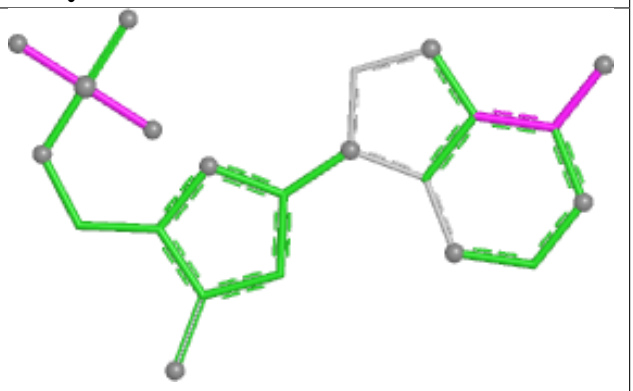


Rings

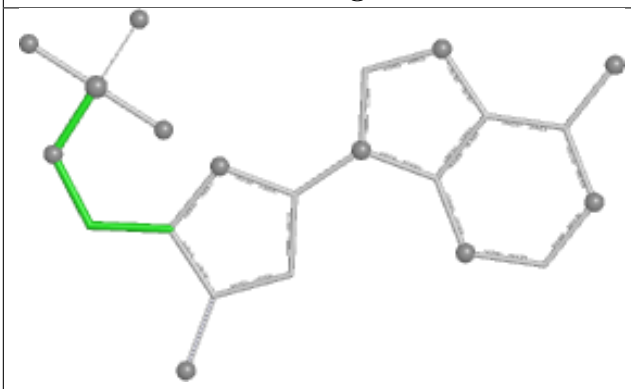
Ligand D5M Q 801



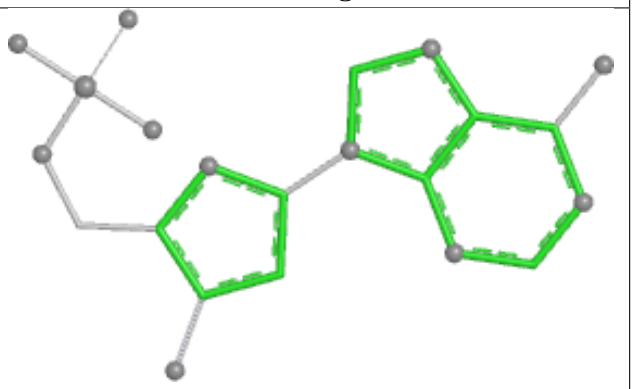
Bond lengths



Bond angles

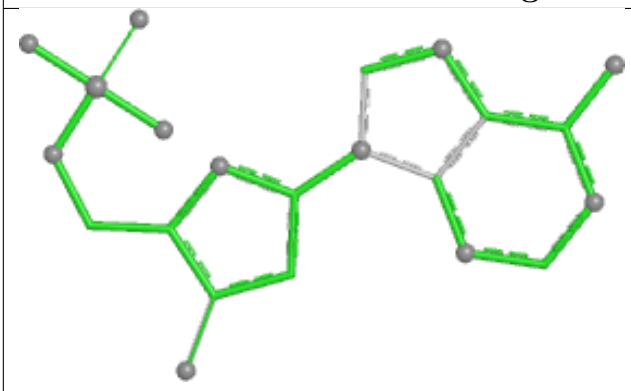


Torsions

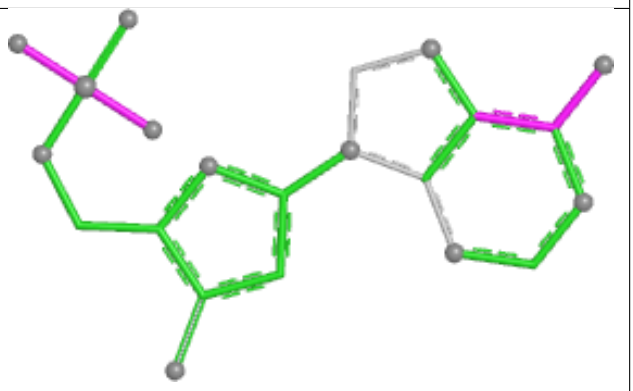


Rings

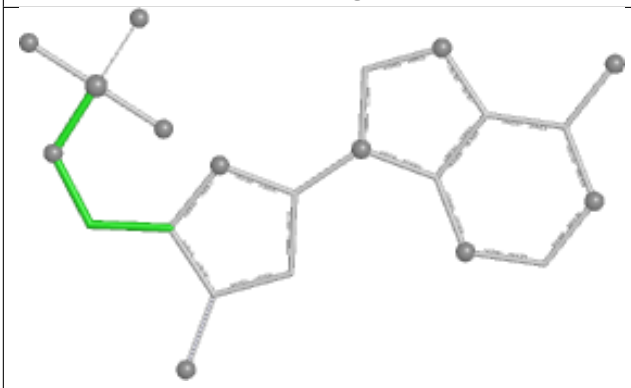
Ligand D5M O 801



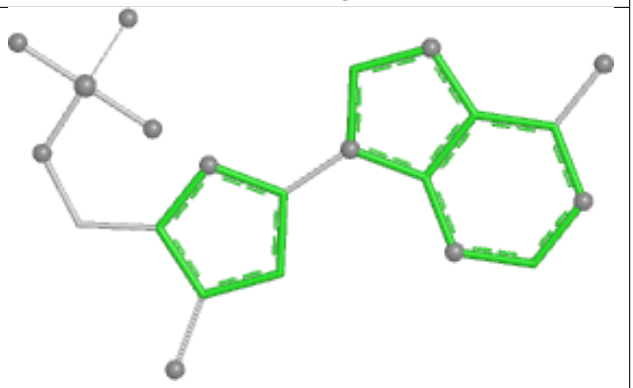
Bond lengths



Bond angles

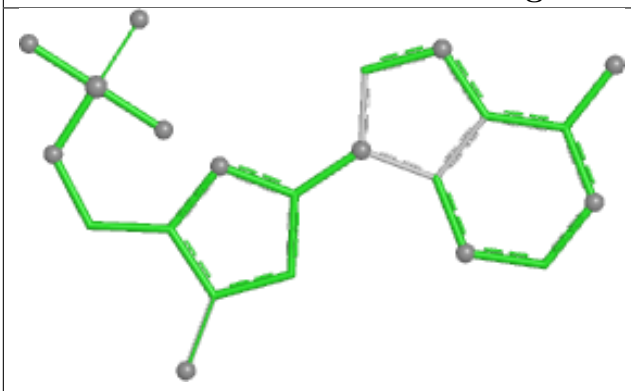


Torsions

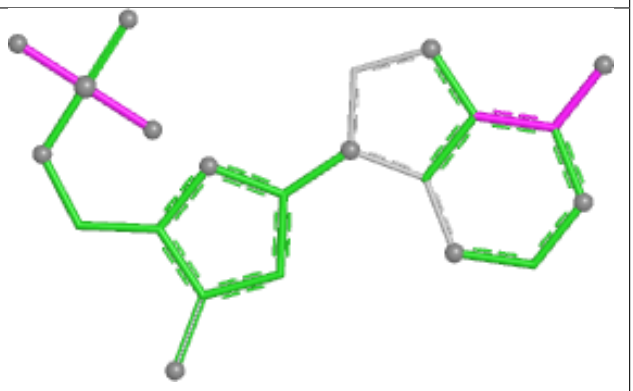


Rings

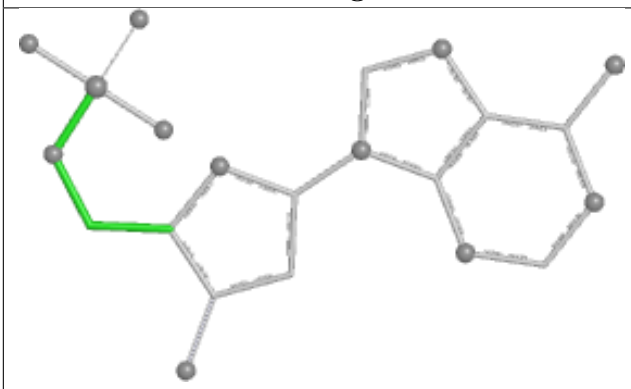
Ligand D5M 5 801



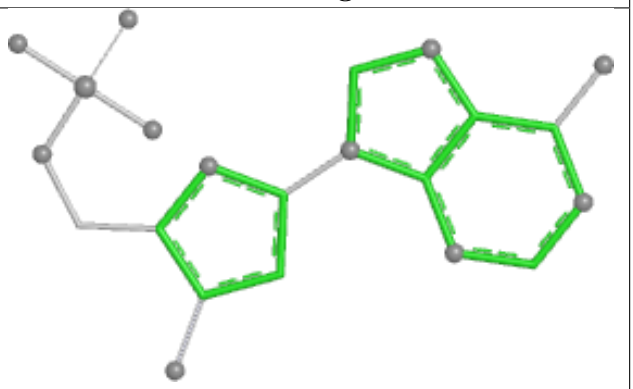
Bond lengths



Bond angles

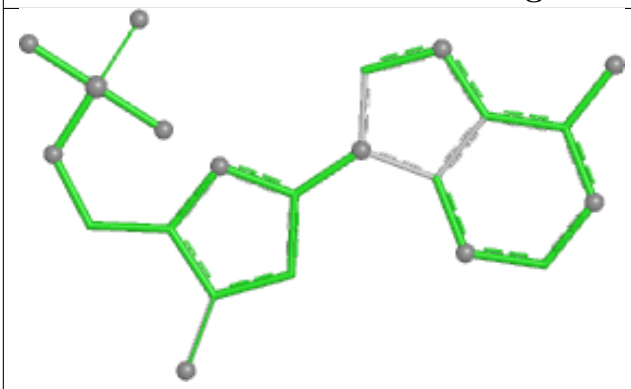


Torsions

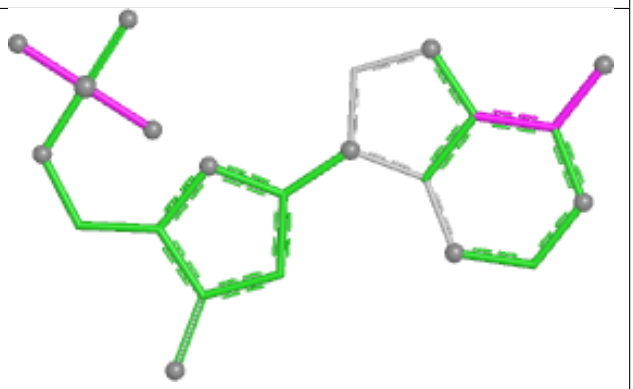


Rings

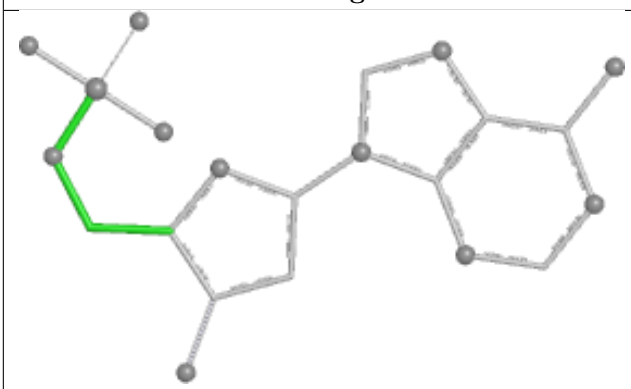
Ligand D5M J 801



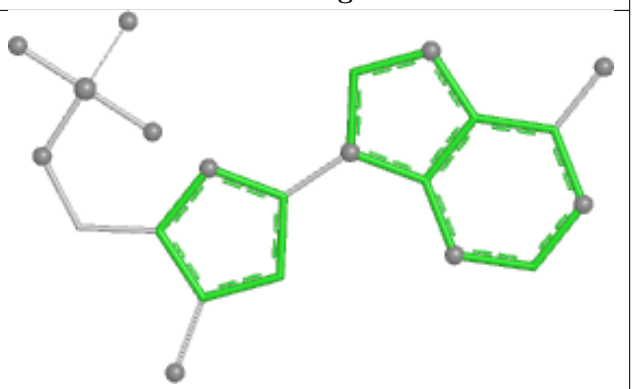
Bond lengths



Bond angles

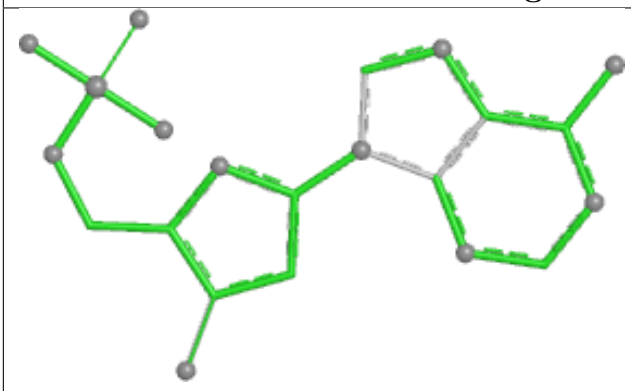


Torsions

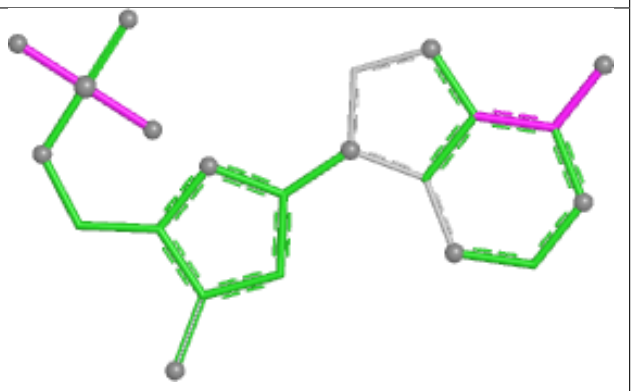


Rings

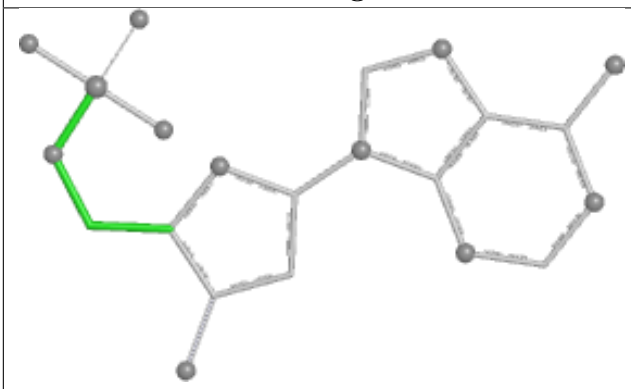
Ligand D5M d 801



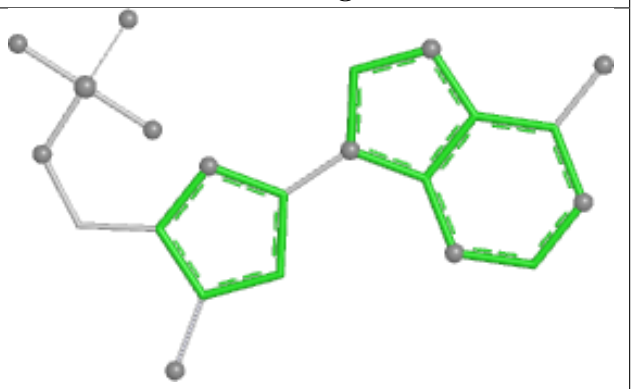
Bond lengths



Bond angles

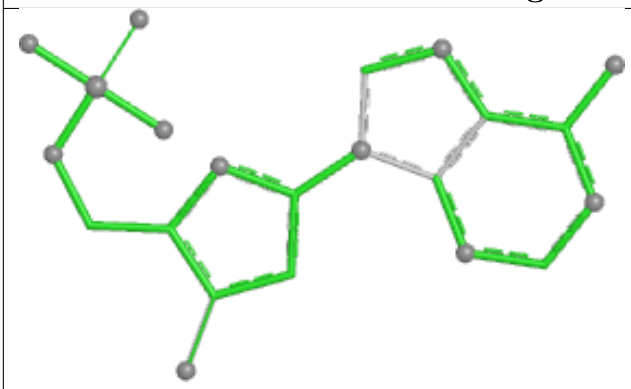


Torsions

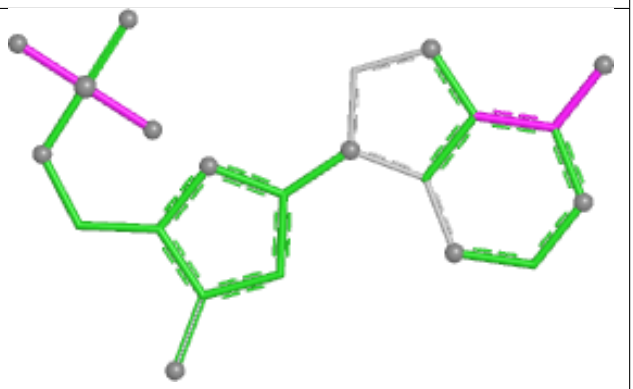


Rings

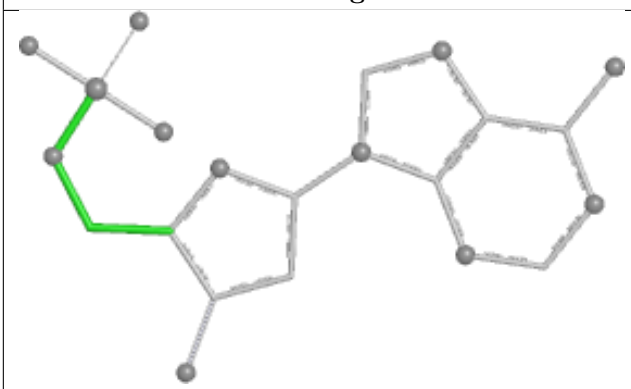
Ligand D5M c 801



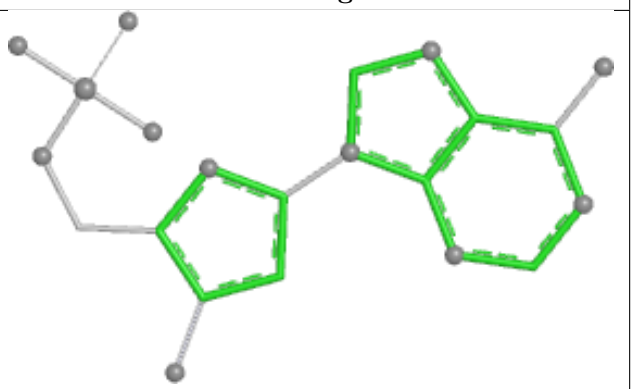
Bond lengths



Bond angles

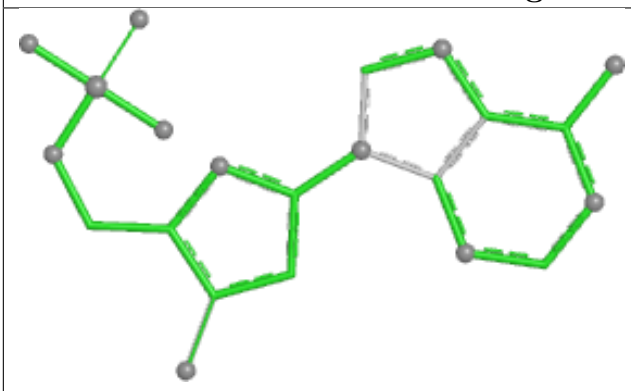


Torsions

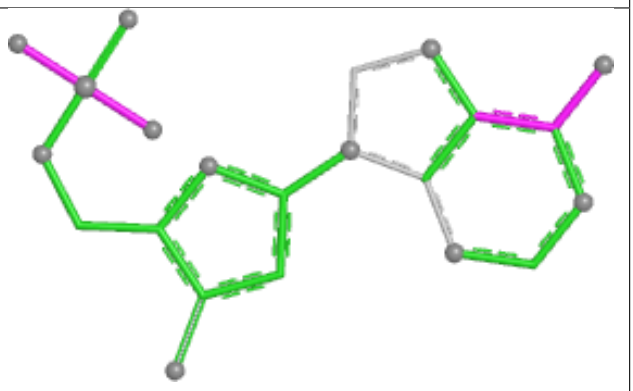


Rings

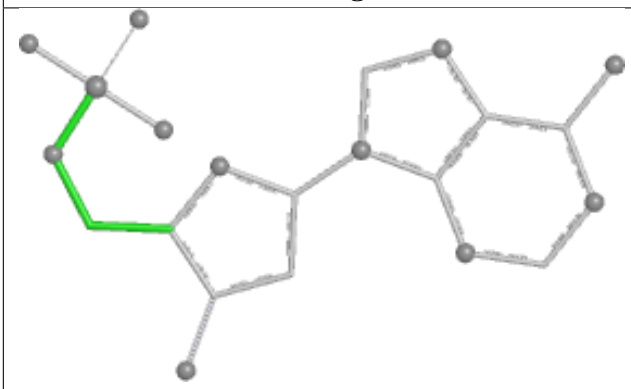
Ligand D5M 3 801



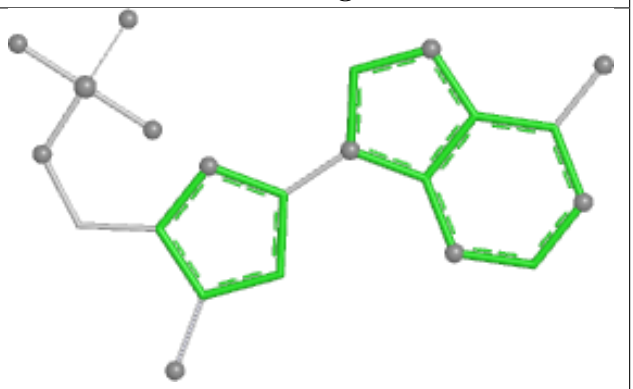
Bond lengths



Bond angles

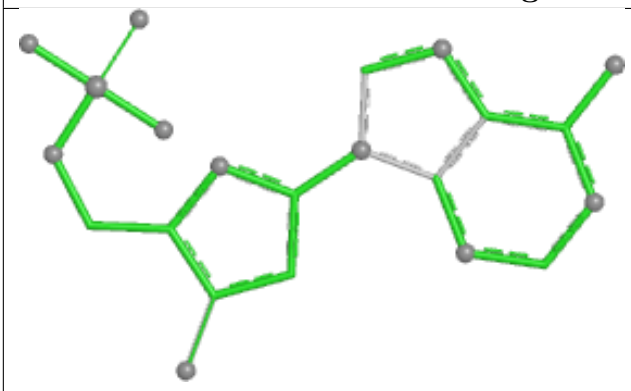


Torsions

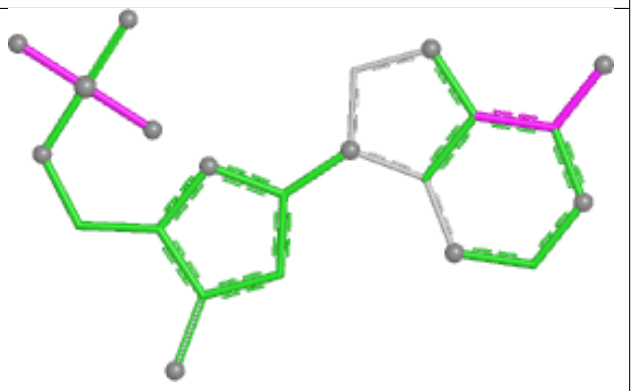


Rings

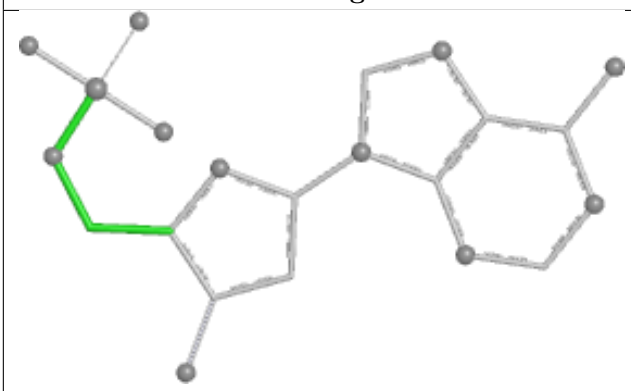
Ligand D5M A 801



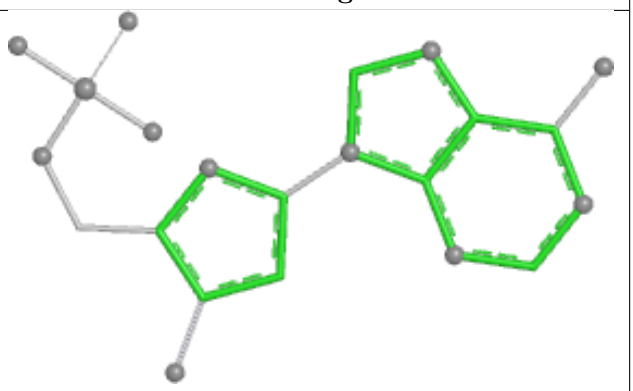
Bond lengths



Bond angles

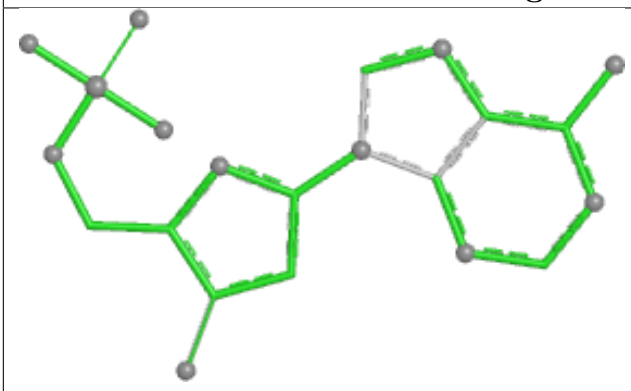


Torsions

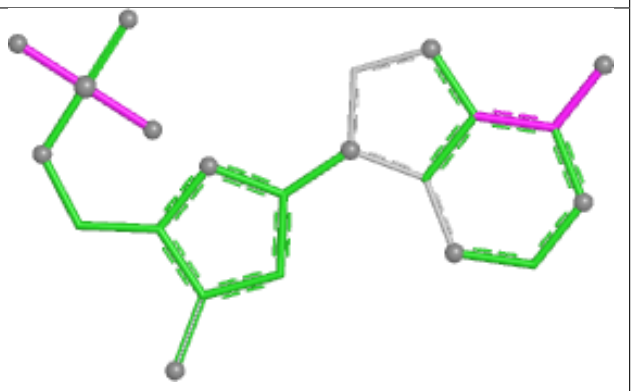


Rings

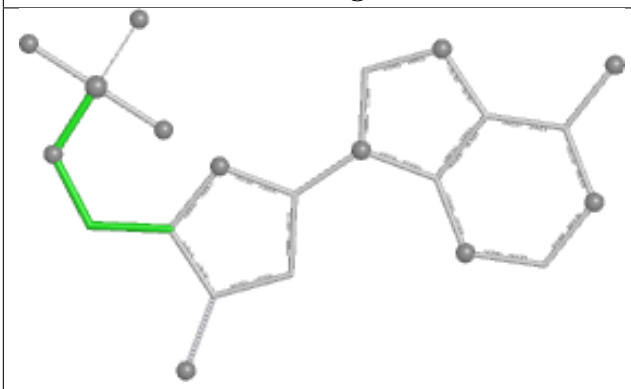
Ligand D5M o 801



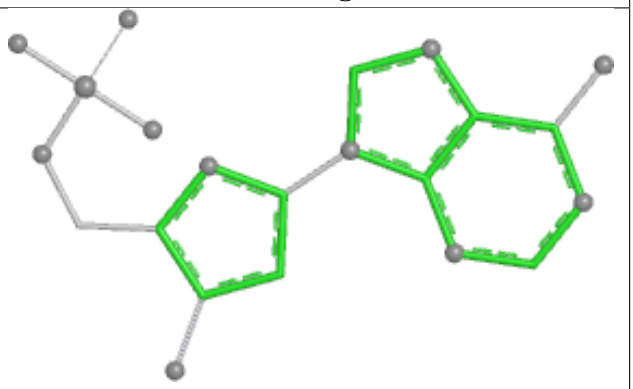
Bond lengths



Bond angles

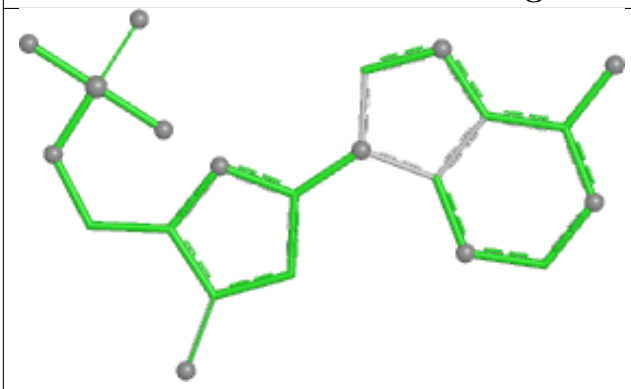


Torsions

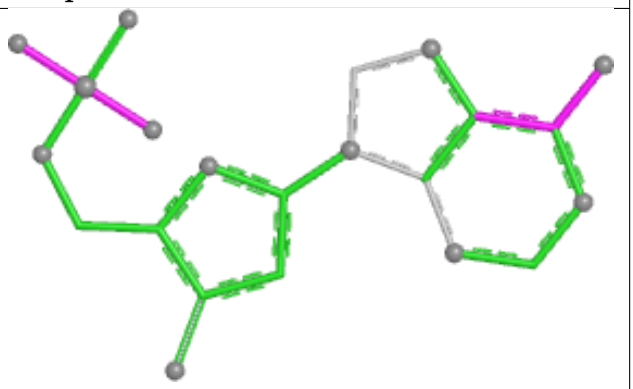


Rings

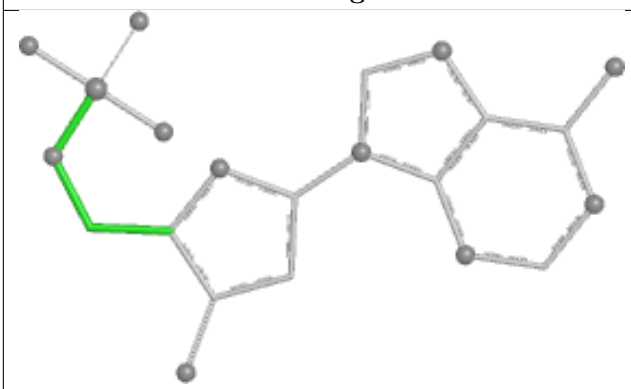
Ligand D5M q 801



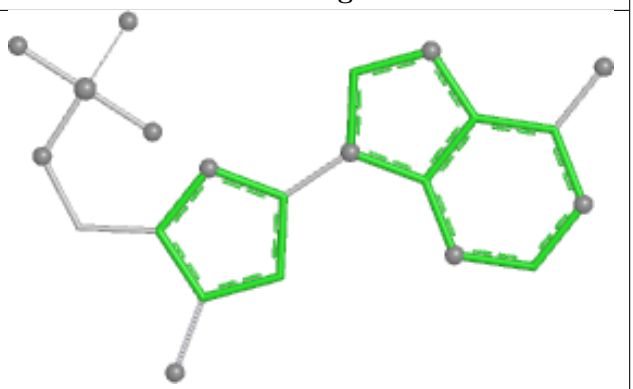
Bond lengths



Bond angles

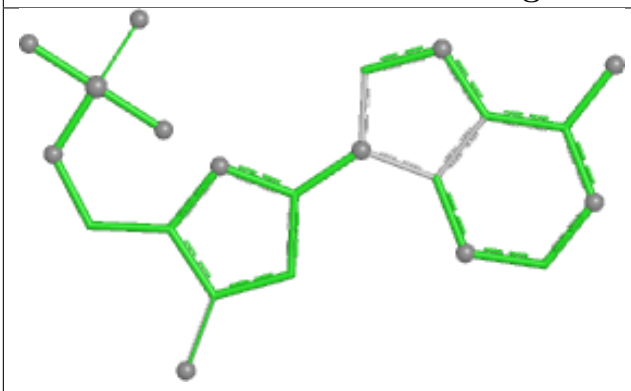


Torsions

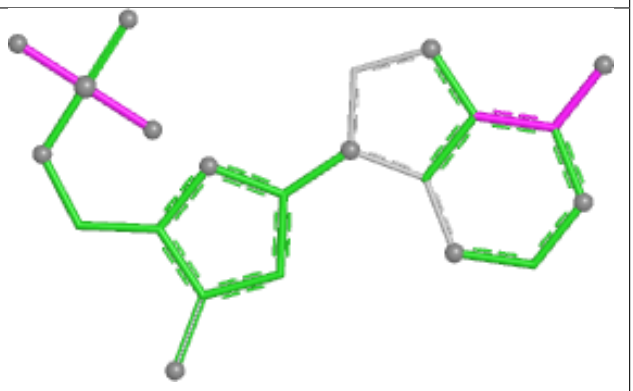


Rings

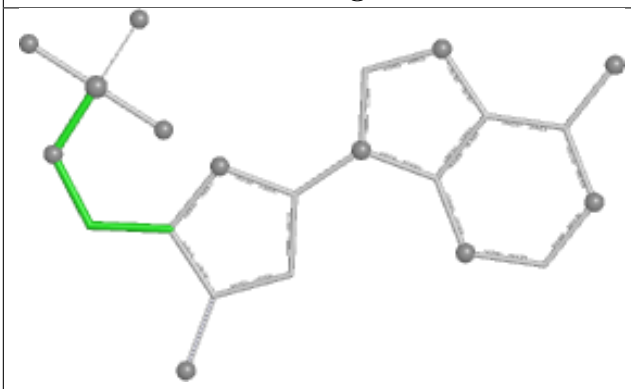
Ligand D5M P 801



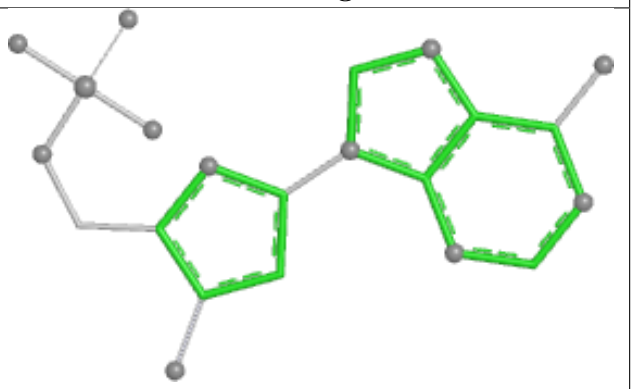
Bond lengths



Bond angles

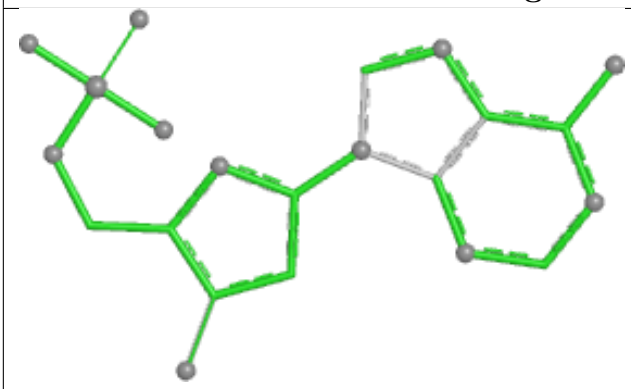


Torsions

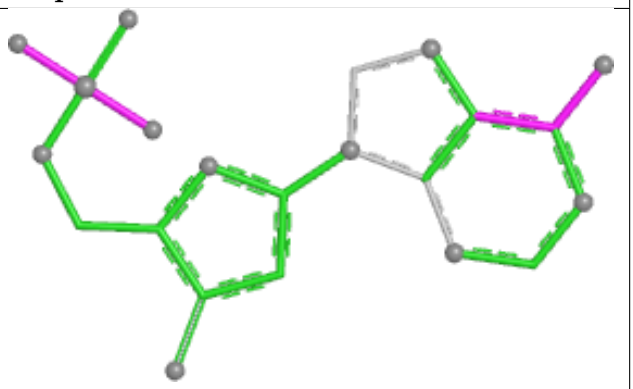


Rings

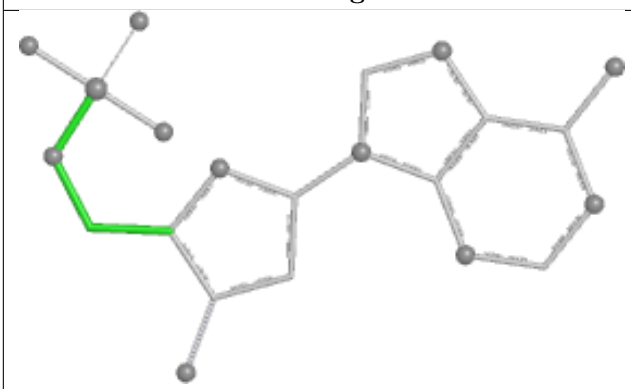
Ligand D5M p 801



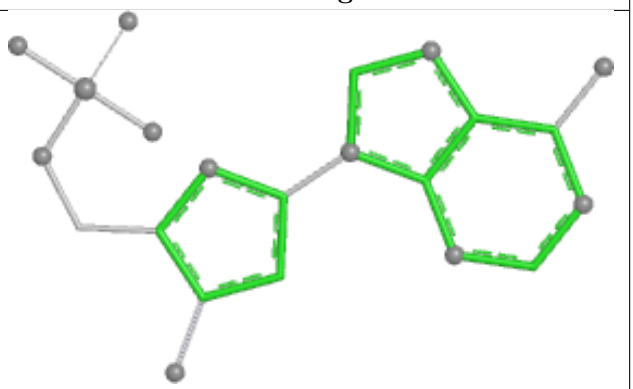
Bond lengths



Bond angles

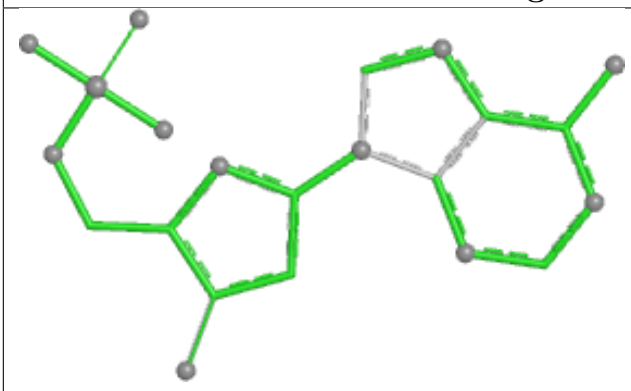


Torsions

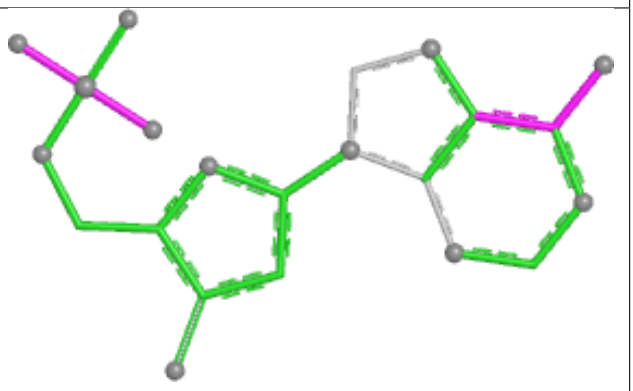


Rings

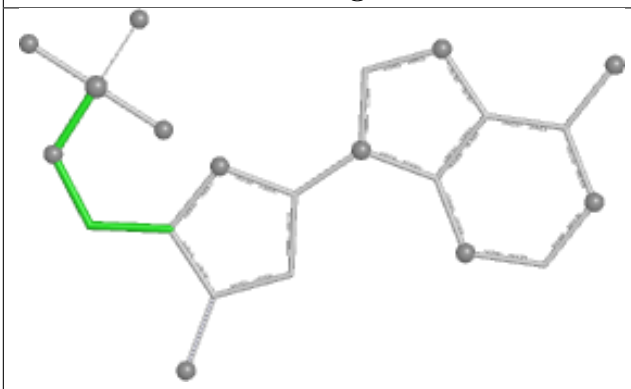
Ligand D5M r 801



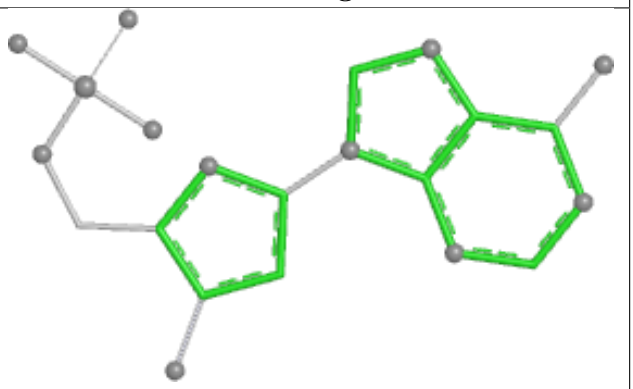
Bond lengths



Bond angles

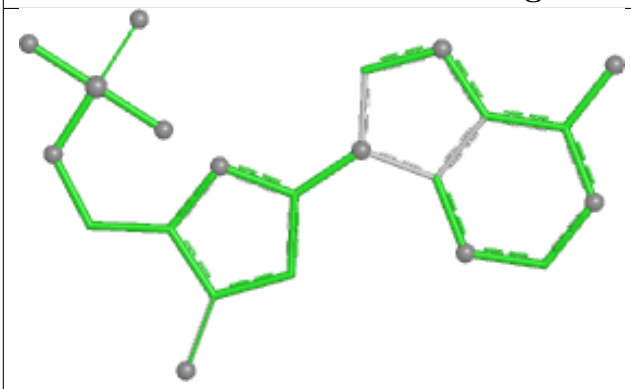


Torsions

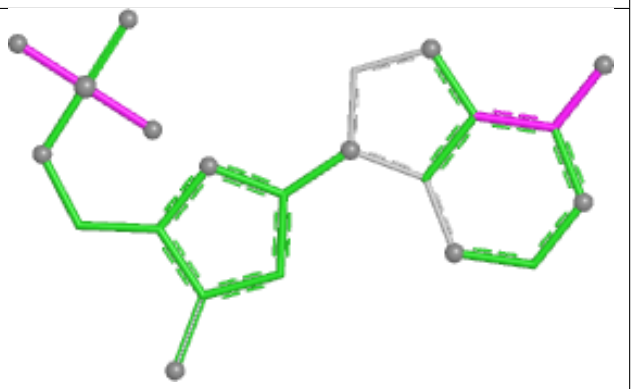


Rings

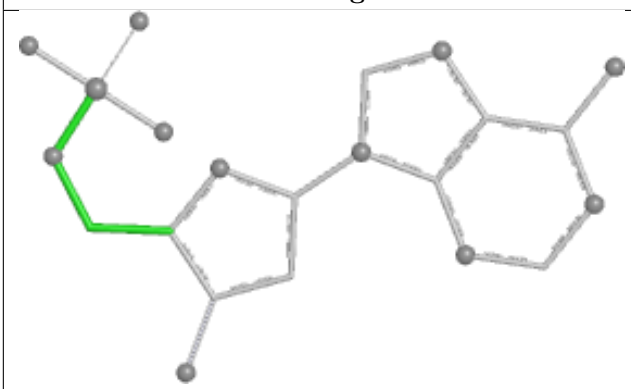
Ligand D5M b 801



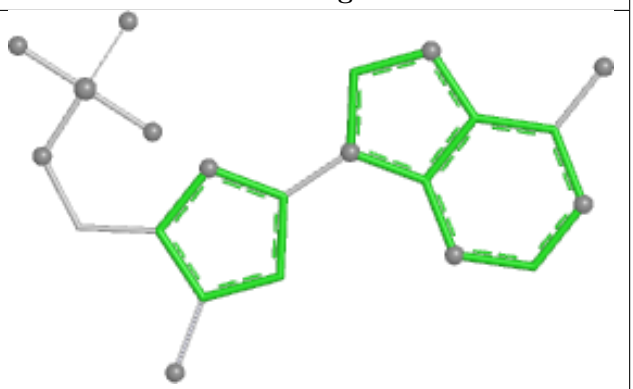
Bond lengths



Bond angles

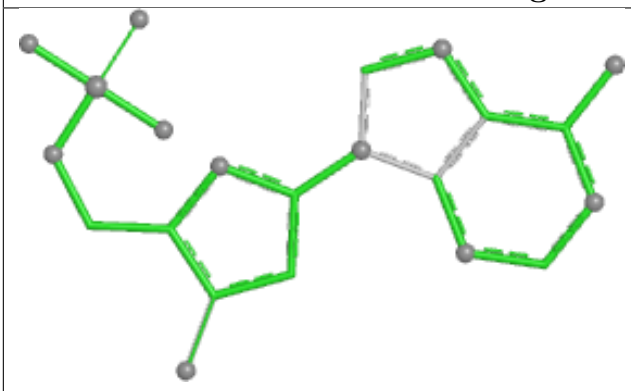


Torsions

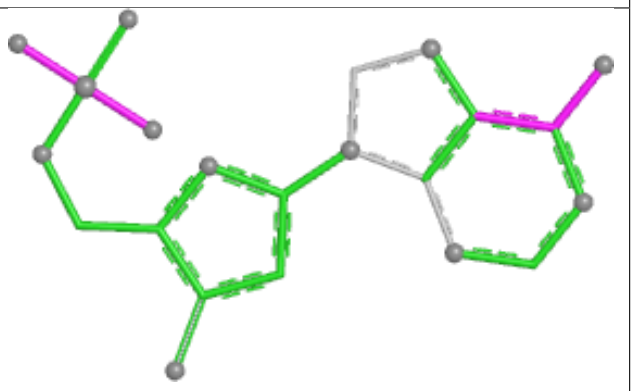


Rings

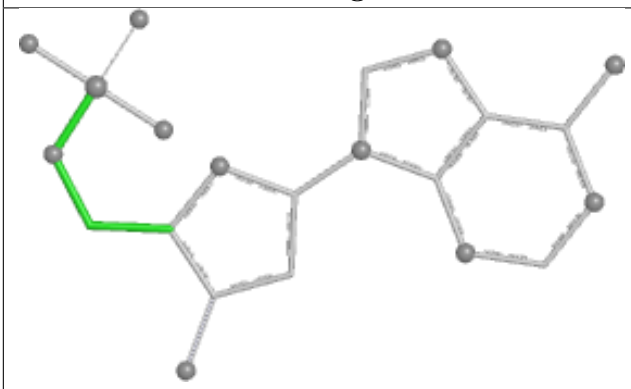
Ligand D5M l 801



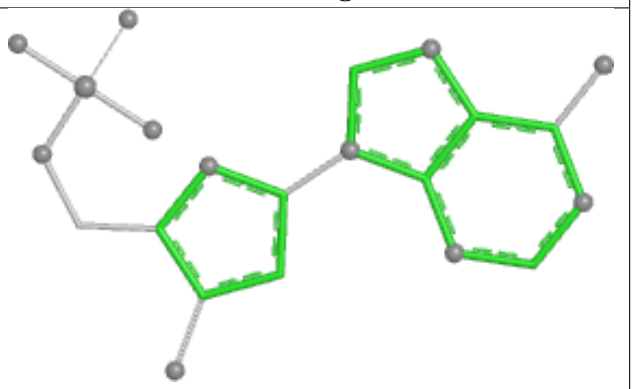
Bond lengths



Bond angles

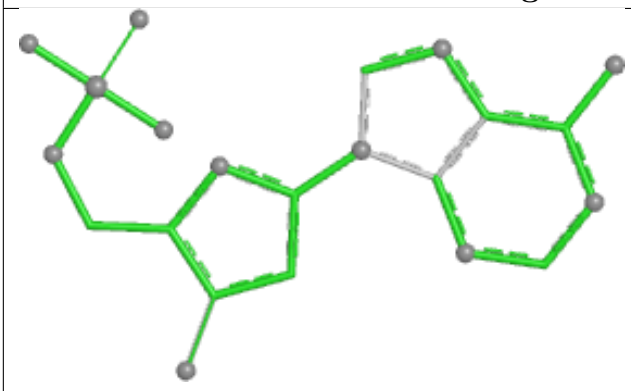


Torsions

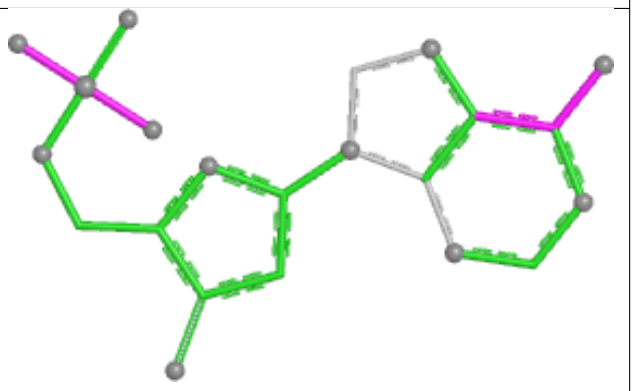


Rings

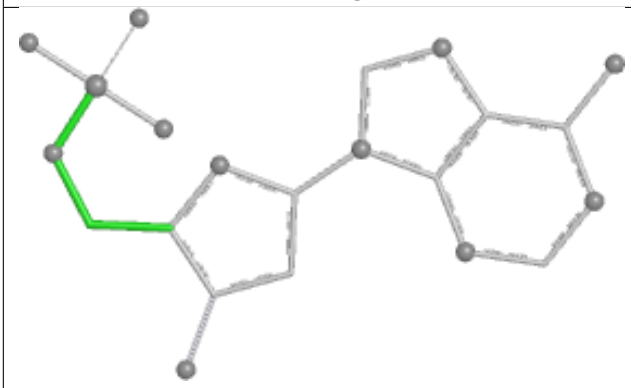
Ligand D5M Y 801



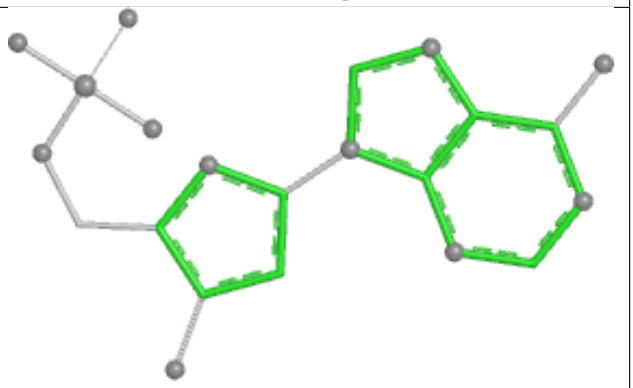
Bond lengths



Bond angles

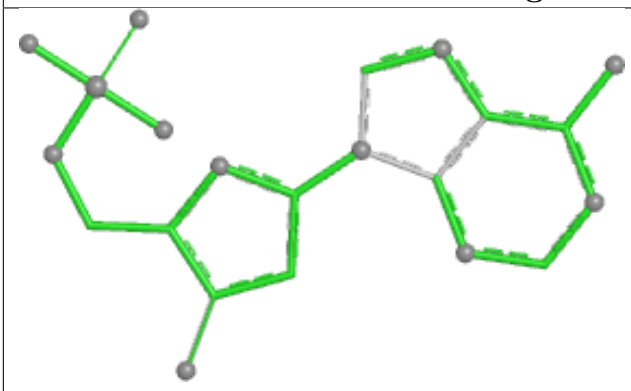


Torsions

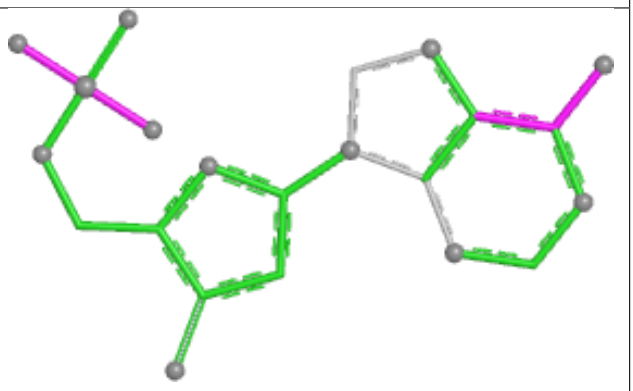


Rings

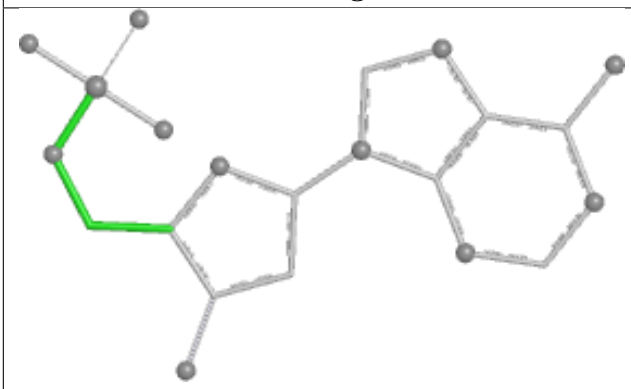
Ligand D5M 4 801



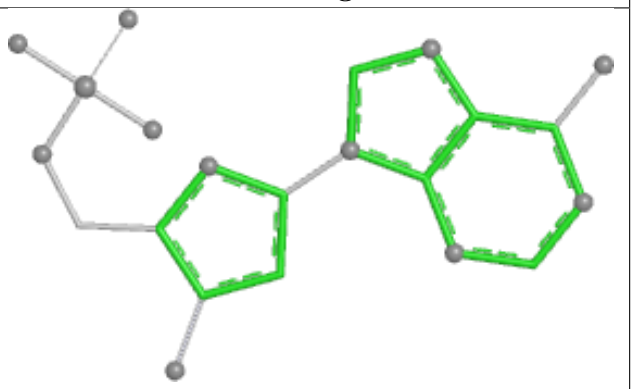
Bond lengths



Bond angles

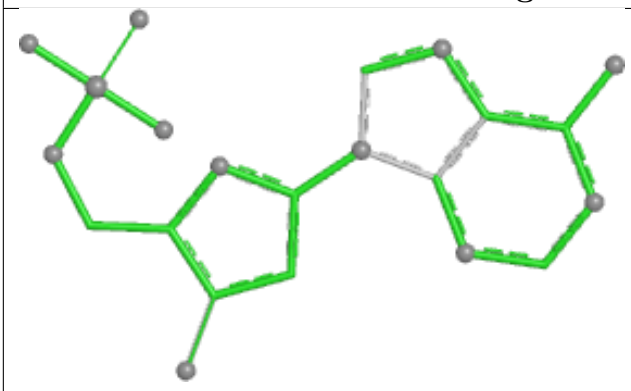


Torsions

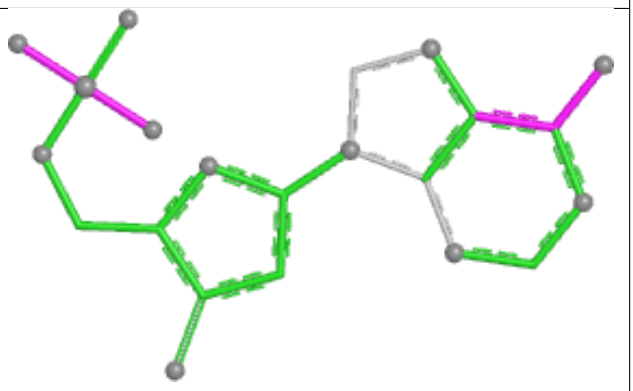


Rings

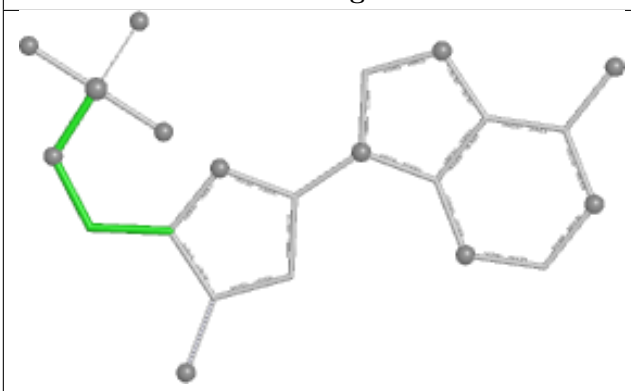
Ligand D5M W 801



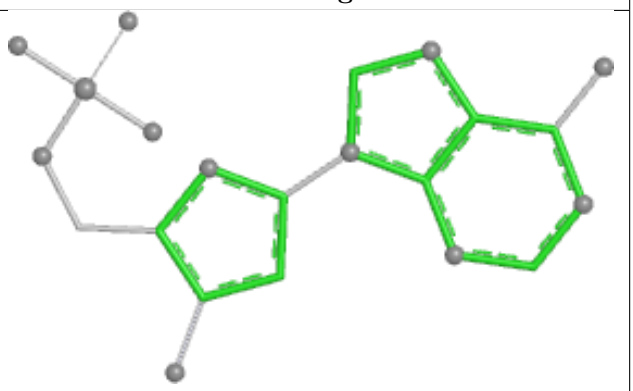
Bond lengths



Bond angles

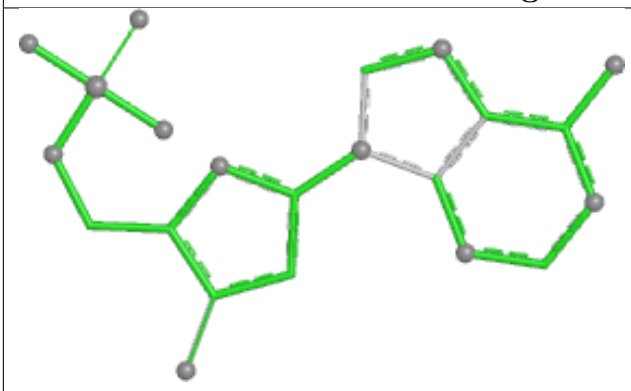


Torsions

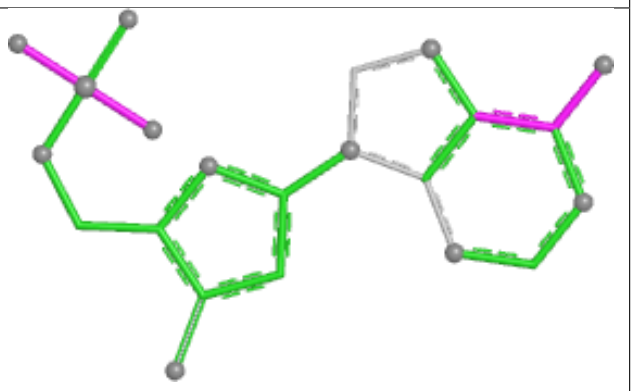


Rings

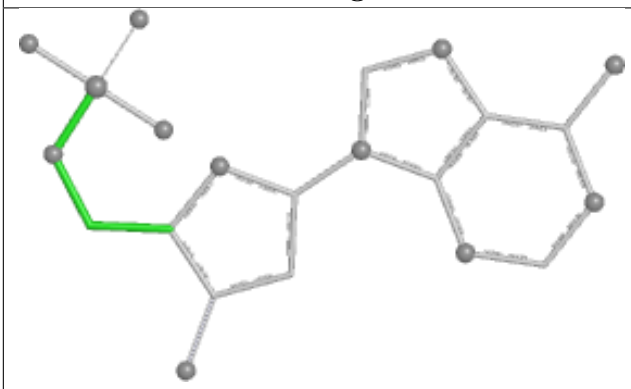
Ligand D5M V 801



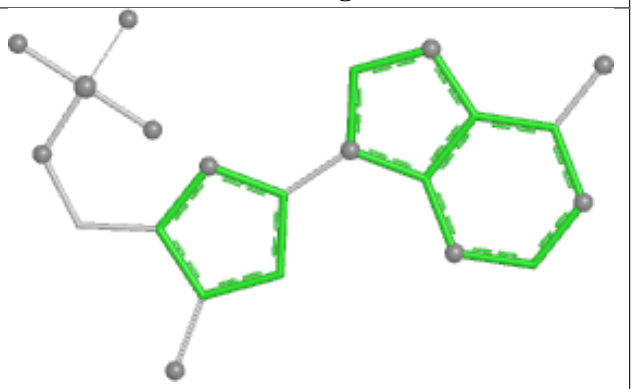
Bond lengths



Bond angles

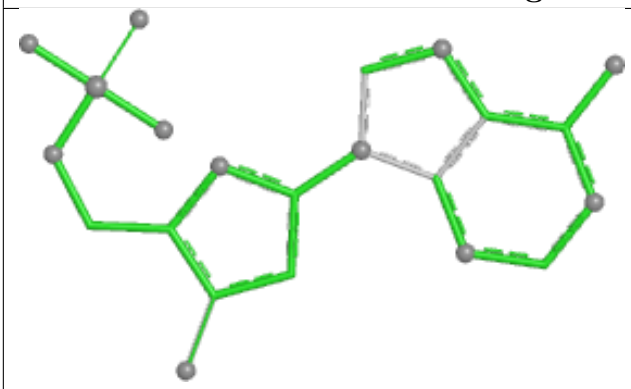


Torsions

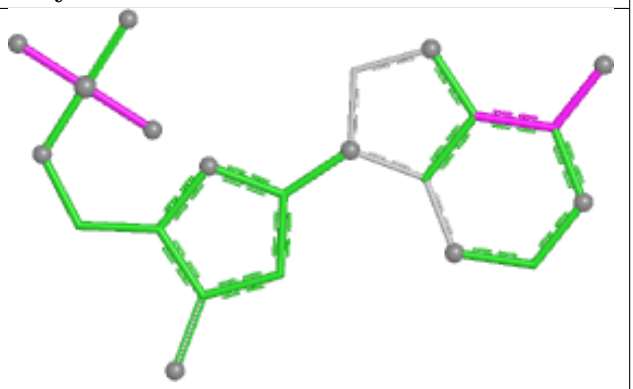


Rings

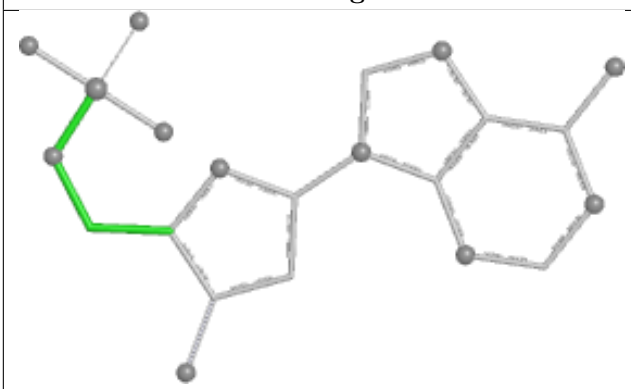
Ligand D5M y 801



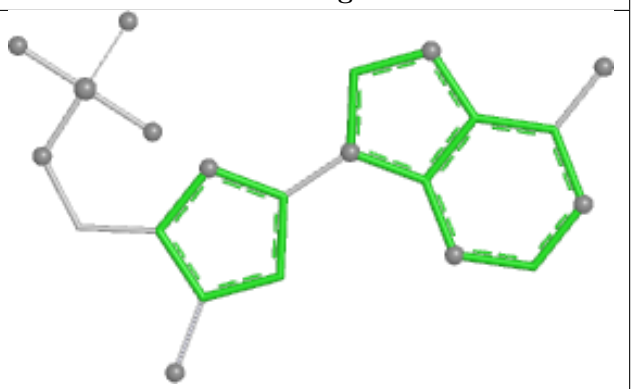
Bond lengths



Bond angles

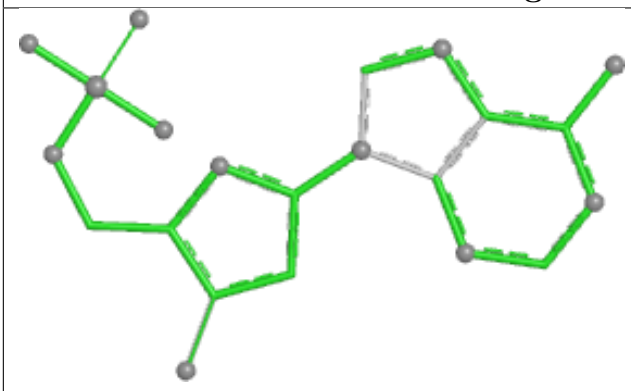


Torsions

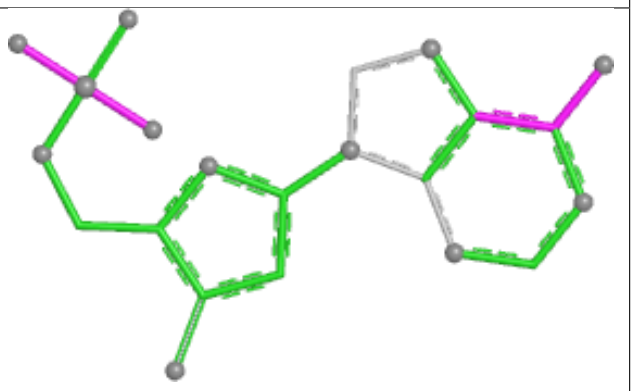


Rings

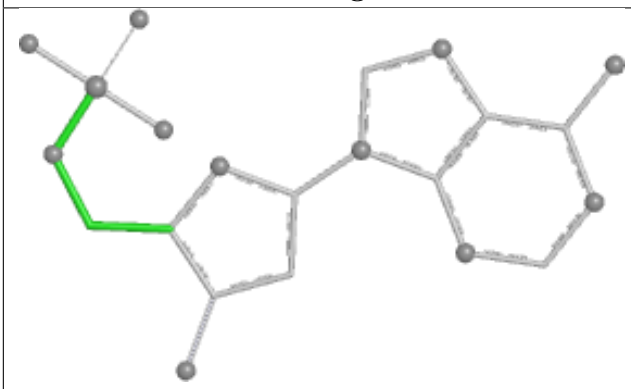
Ligand D5M h 801



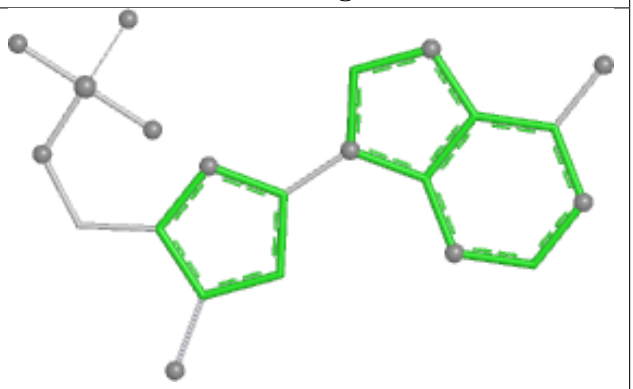
Bond lengths



Bond angles

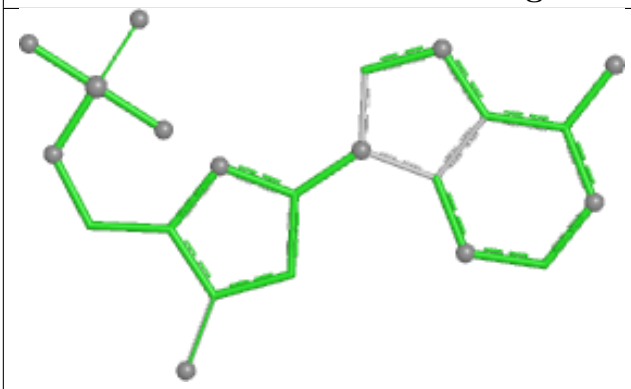


Torsions

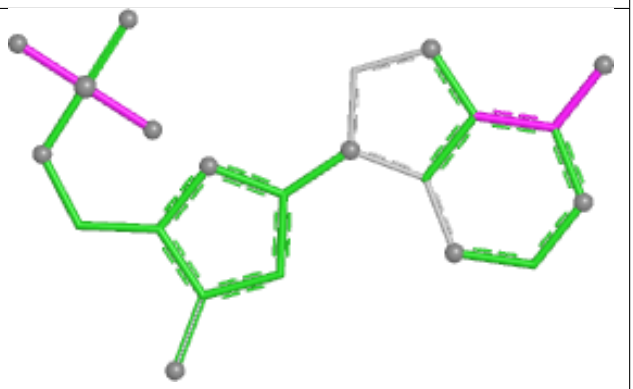


Rings

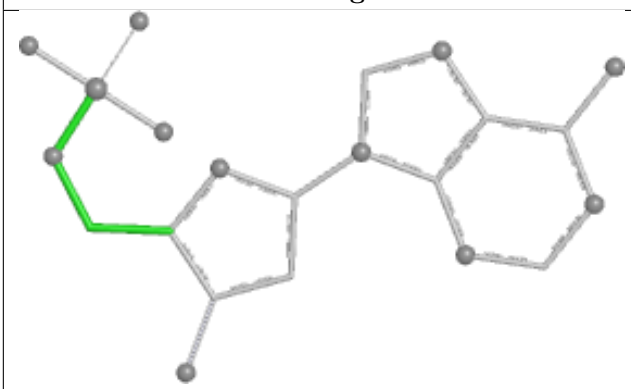
Ligand D5M 7 801



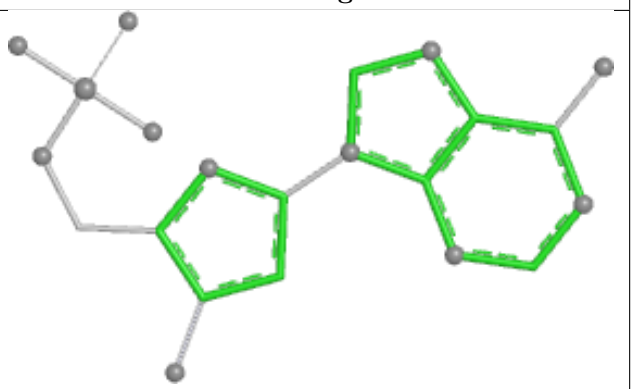
Bond lengths



Bond angles

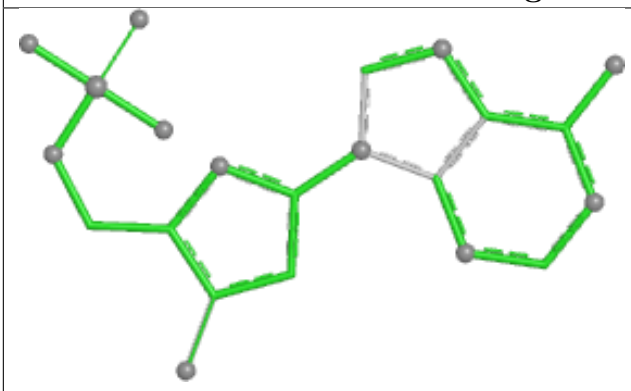


Torsions

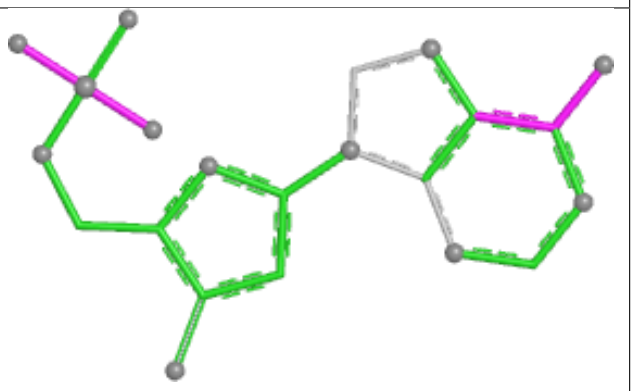


Rings

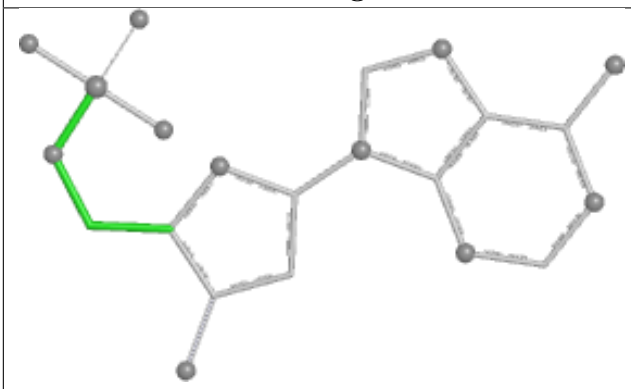
Ligand D5M S 801



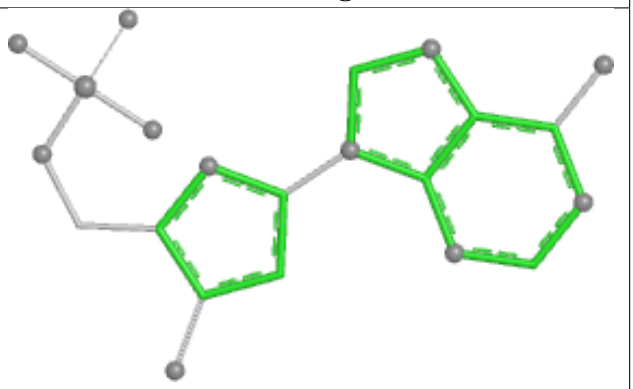
Bond lengths



Bond angles

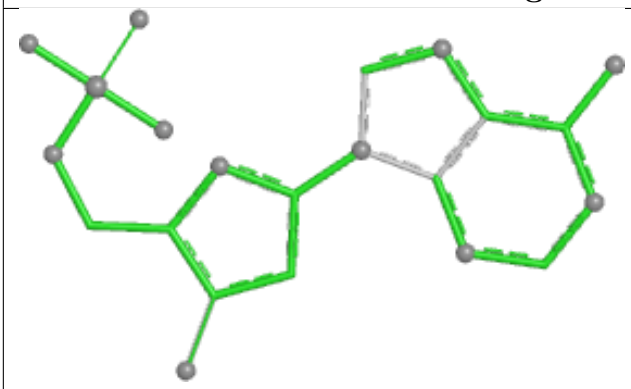


Torsions

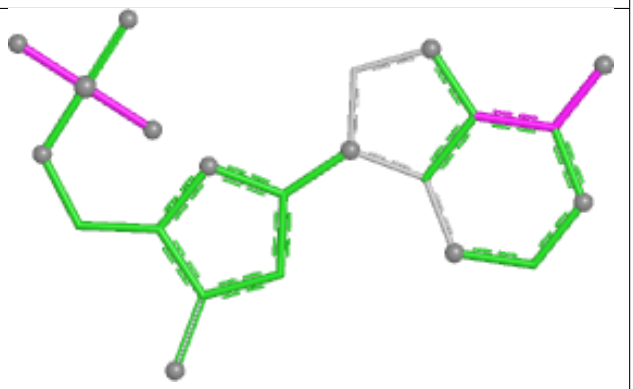


Rings

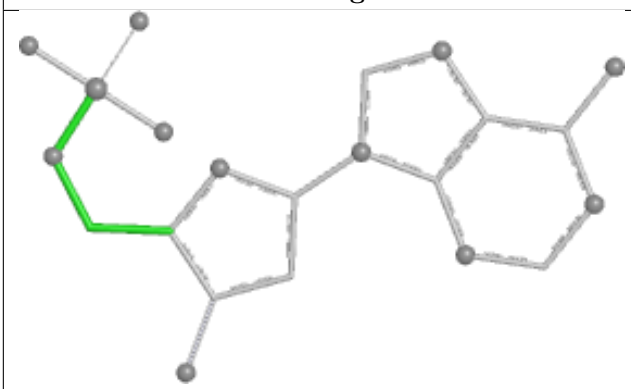
Ligand D5M x 801



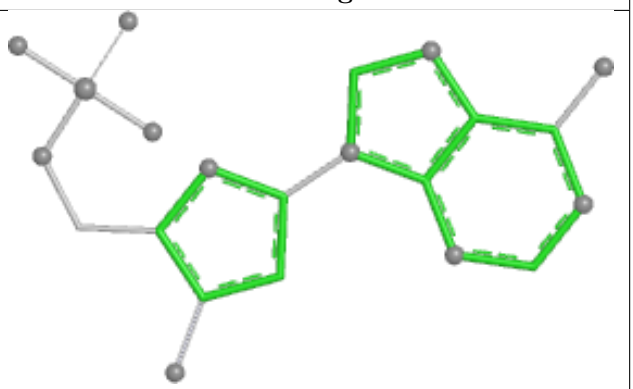
Bond lengths



Bond angles

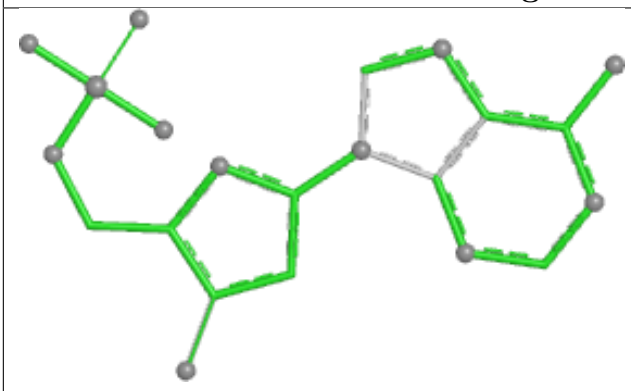


Torsions

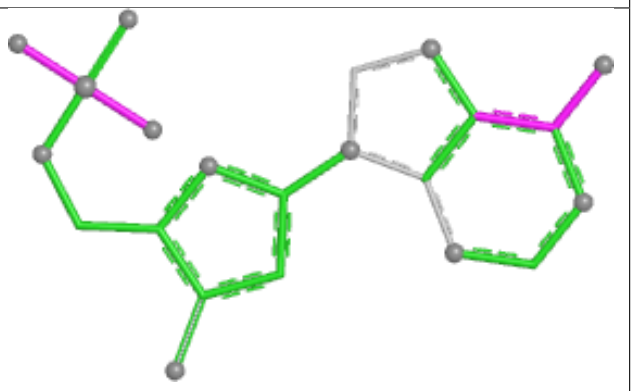


Rings

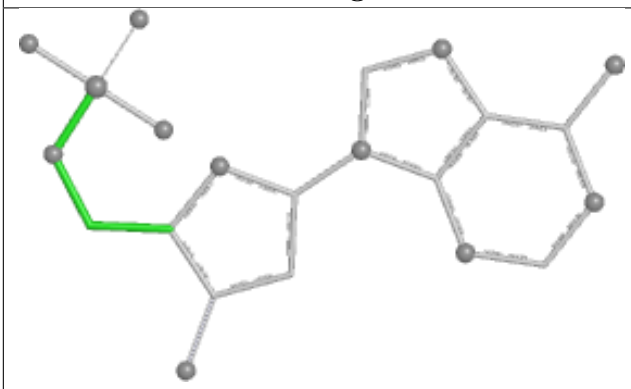
Ligand D5M C 801



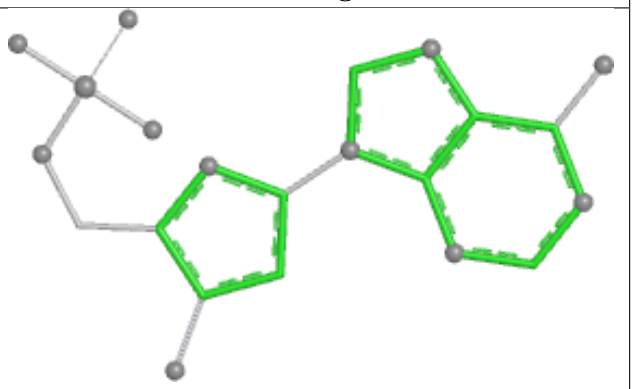
Bond lengths



Bond angles

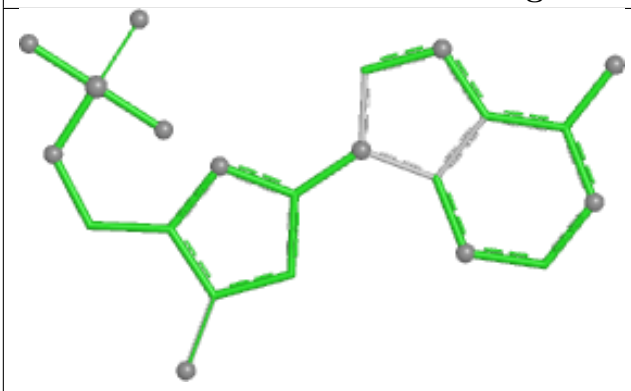


Torsions

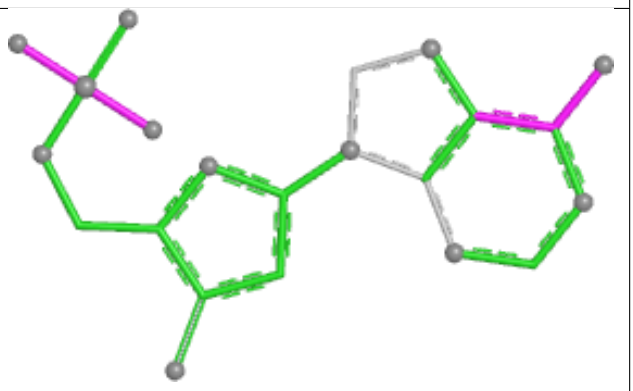


Rings

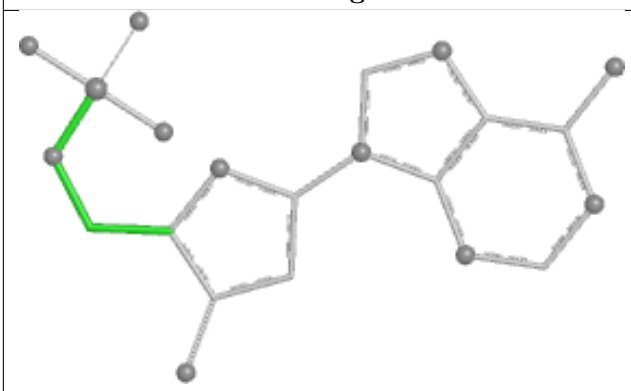
Ligand D5M a 801



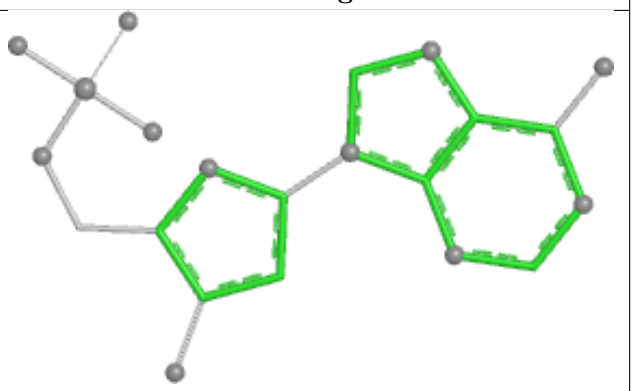
Bond lengths



Bond angles

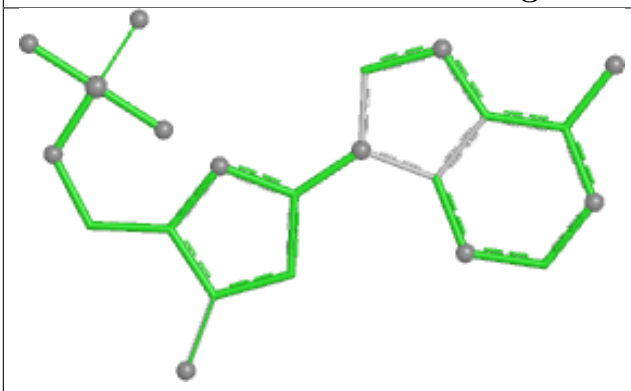


Torsions

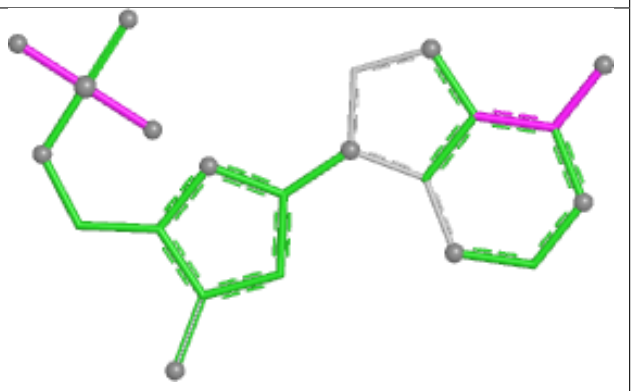


Rings

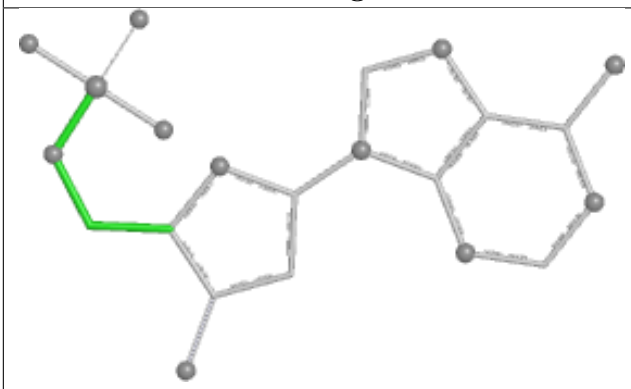
Ligand D5M U 801



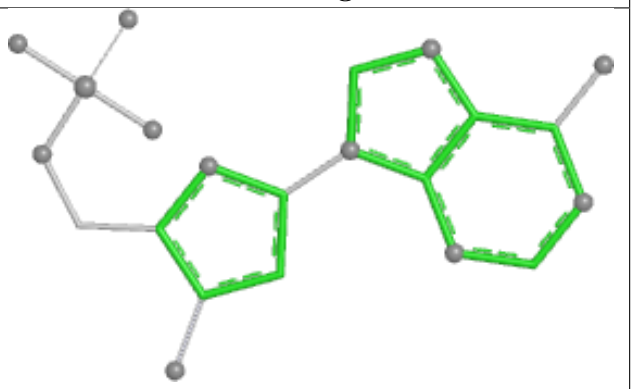
Bond lengths



Bond angles

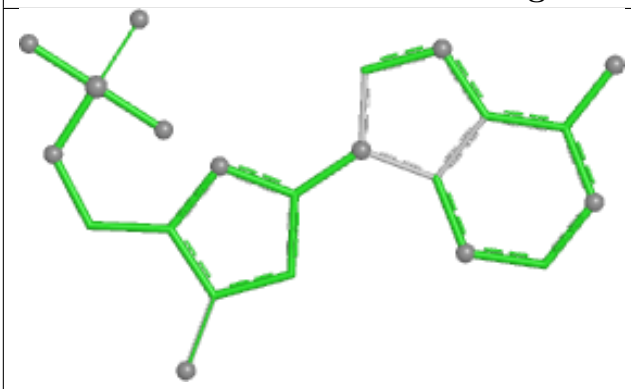


Torsions

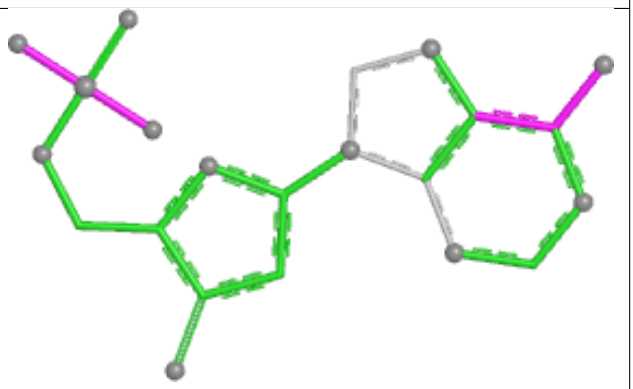


Rings

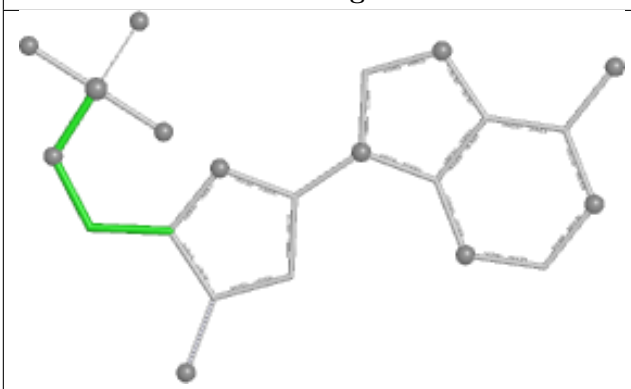
Ligand D5M I 801



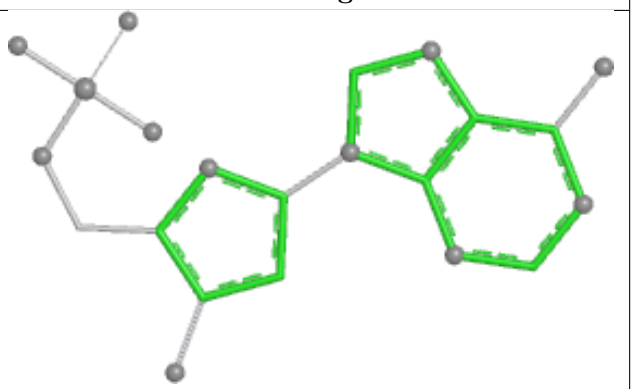
Bond lengths



Bond angles

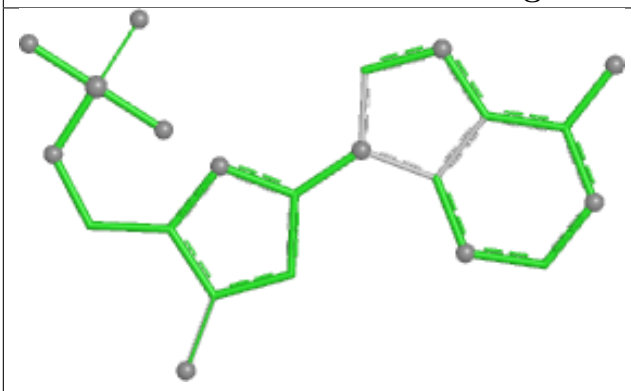


Torsions

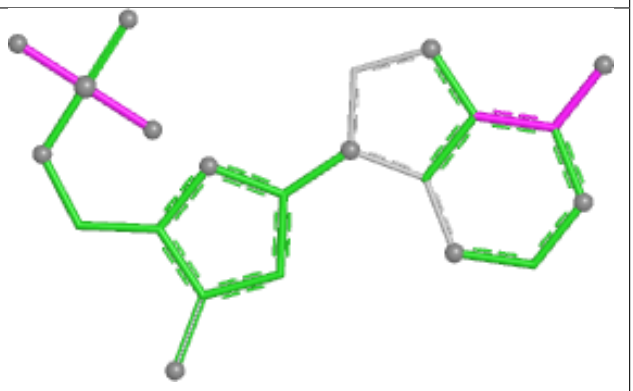


Rings

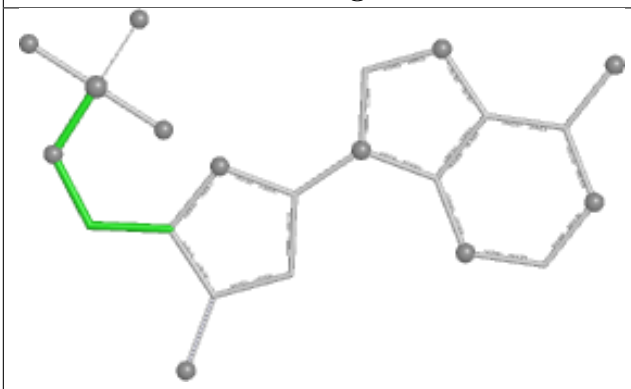
Ligand D5M Z 801



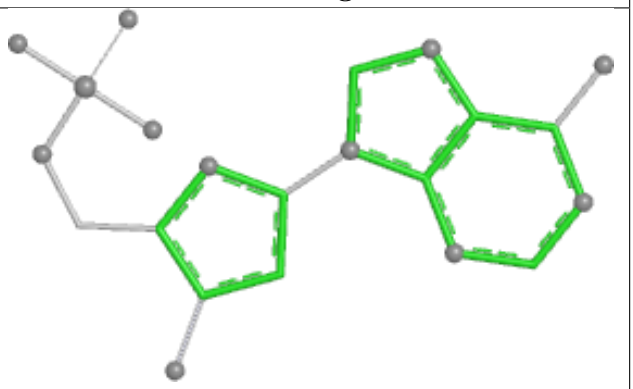
Bond lengths



Bond angles

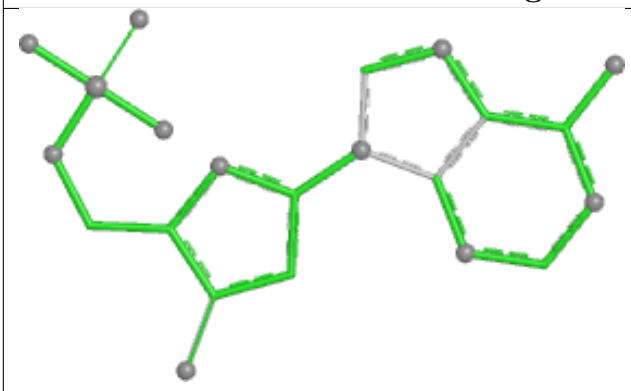


Torsions

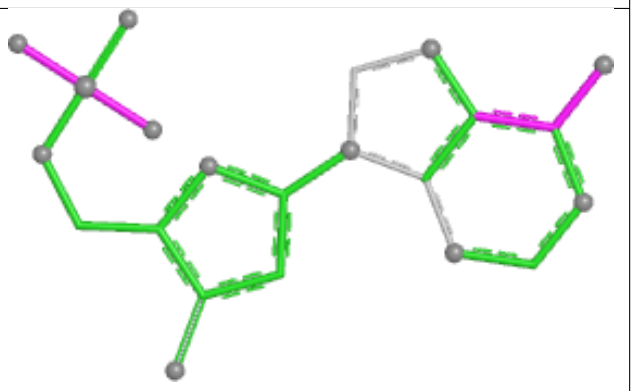


Rings

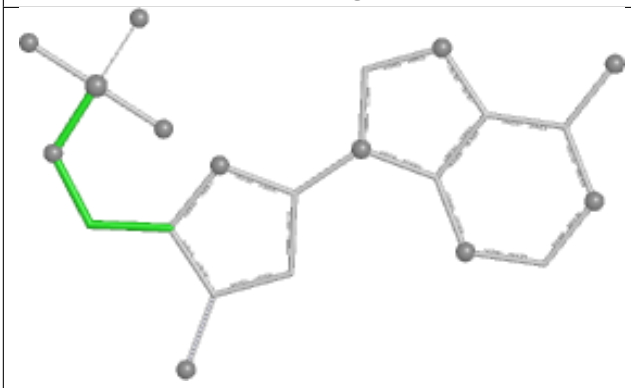
Ligand D5M u 801



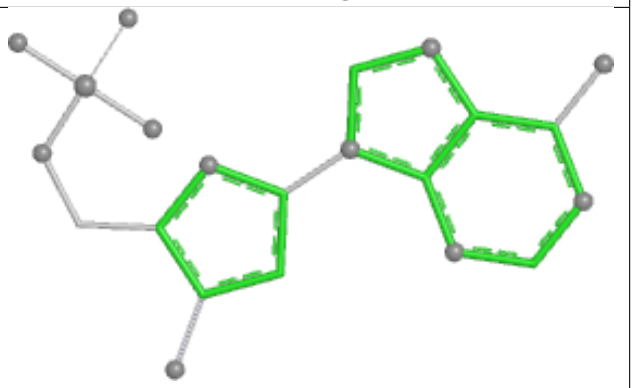
Bond lengths



Bond angles

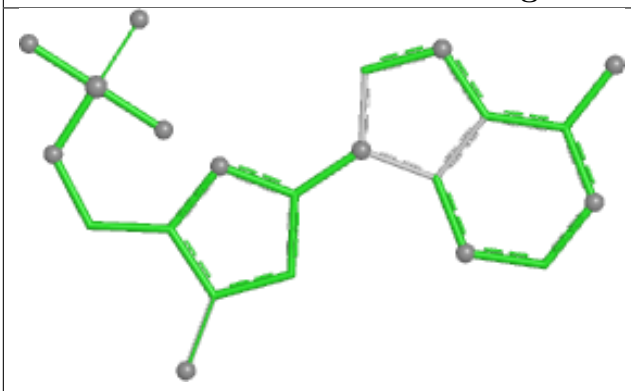


Torsions

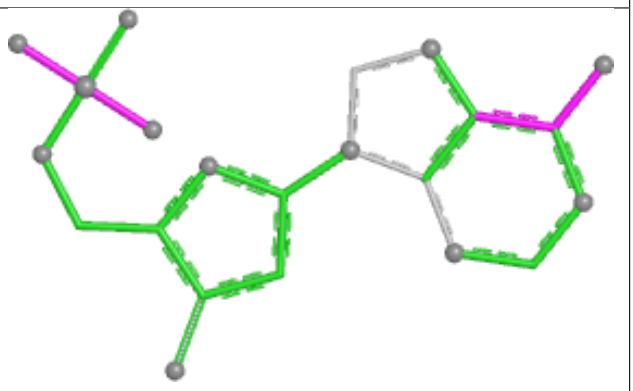


Rings

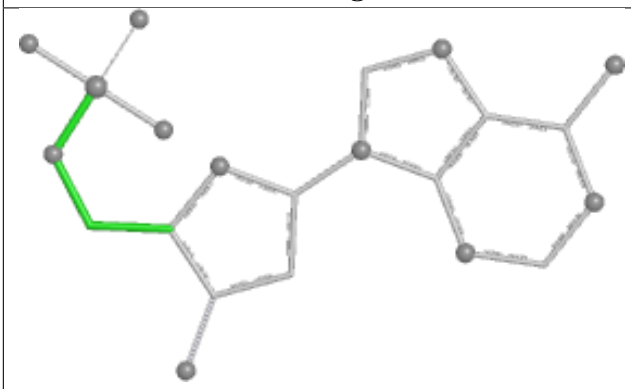
Ligand D5M G 801



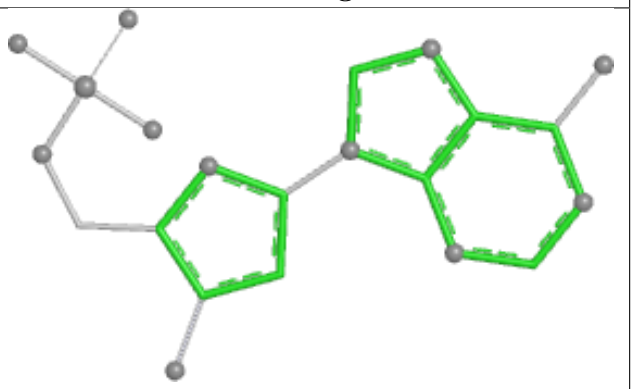
Bond lengths



Bond angles

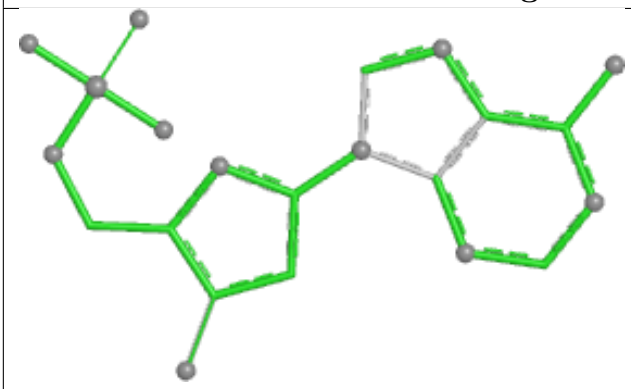


Torsions

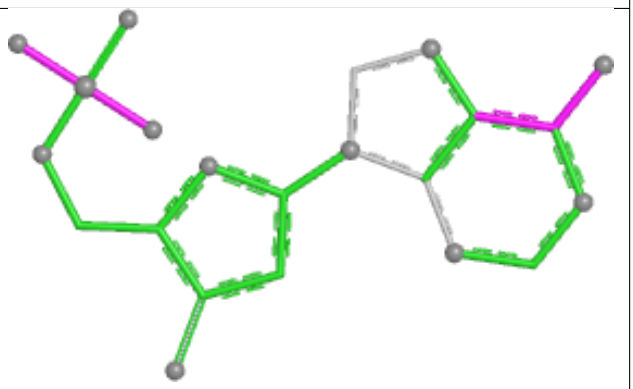


Rings

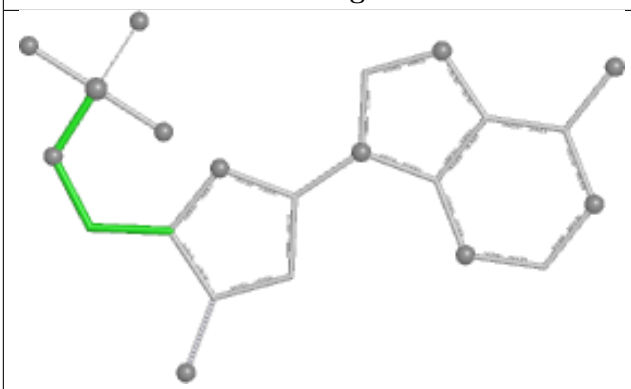
Ligand D5M H 801



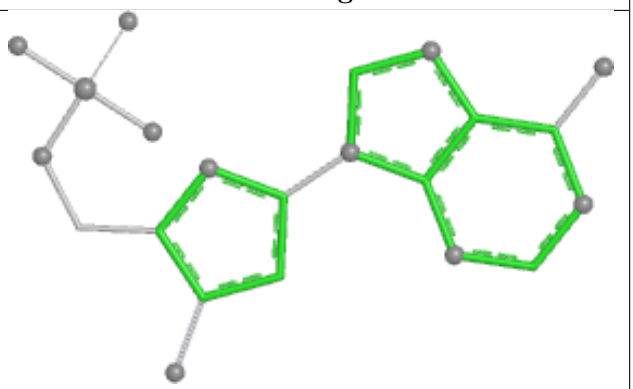
Bond lengths



Bond angles

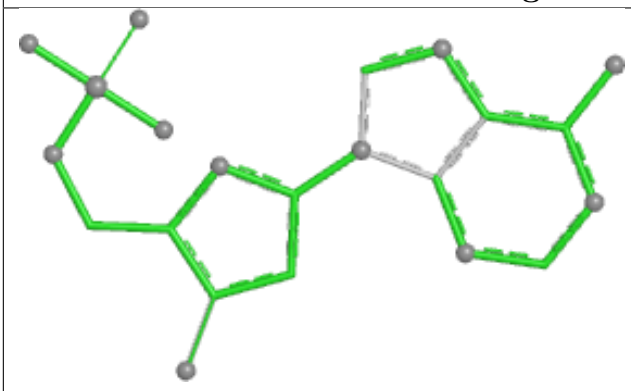


Torsions

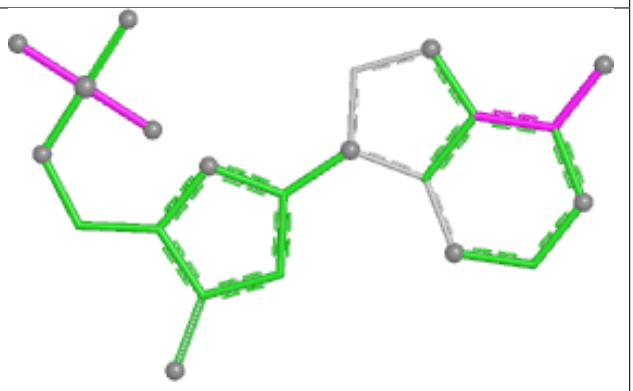


Rings

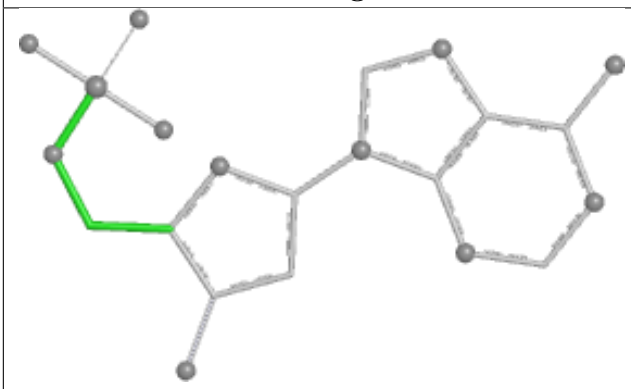
Ligand D5M T 801



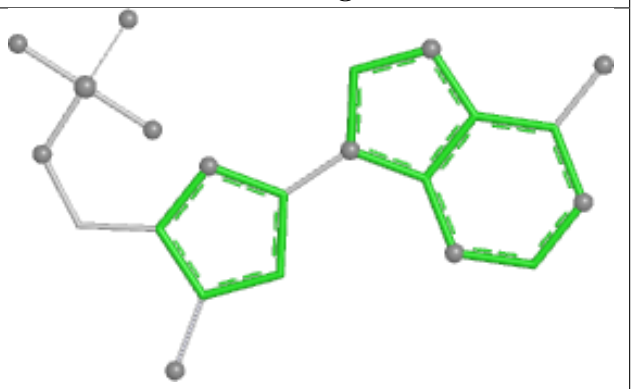
Bond lengths



Bond angles

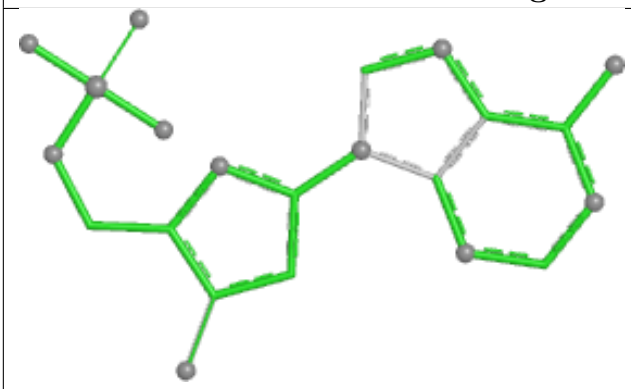


Torsions

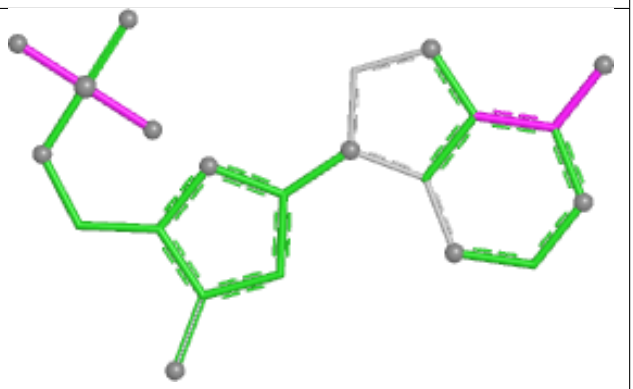


Rings

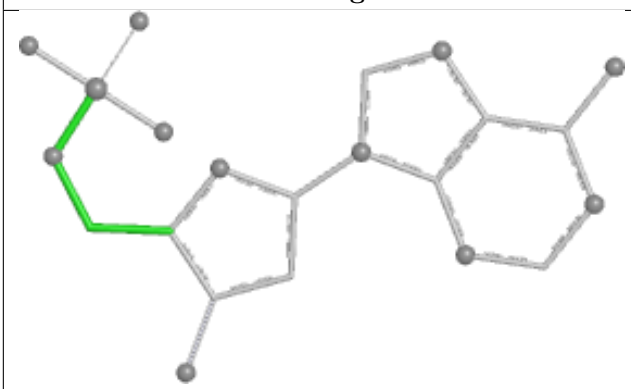
Ligand D5M i 801



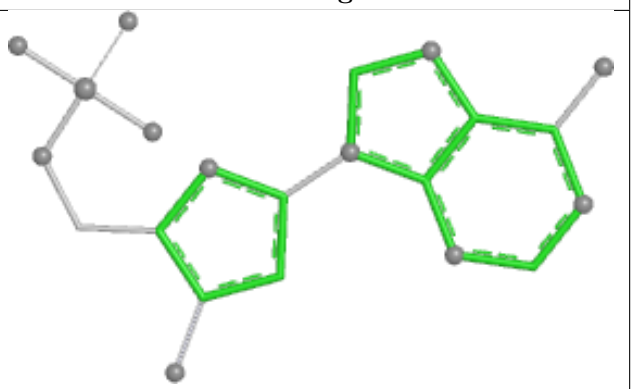
Bond lengths



Bond angles

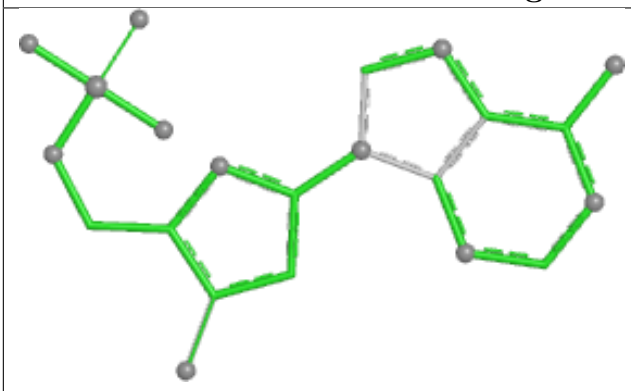


Torsions

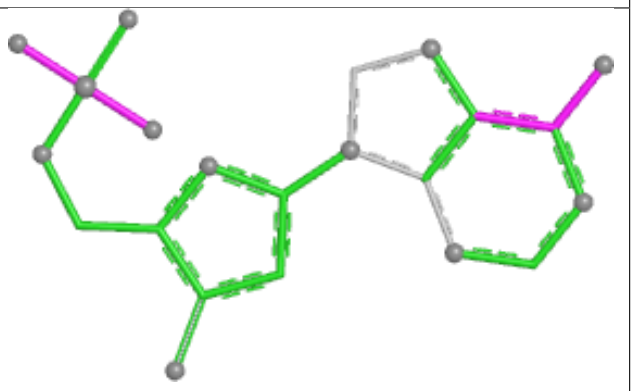


Rings

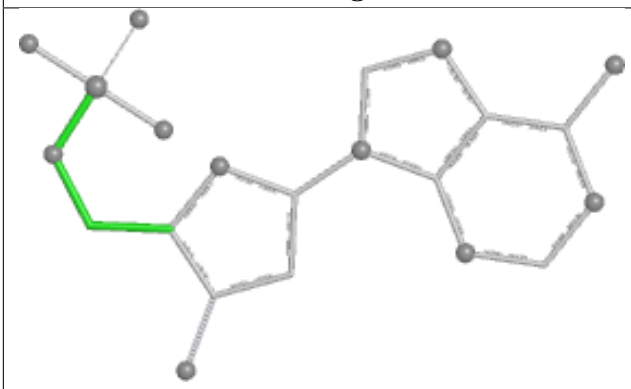
Ligand D5M k 801



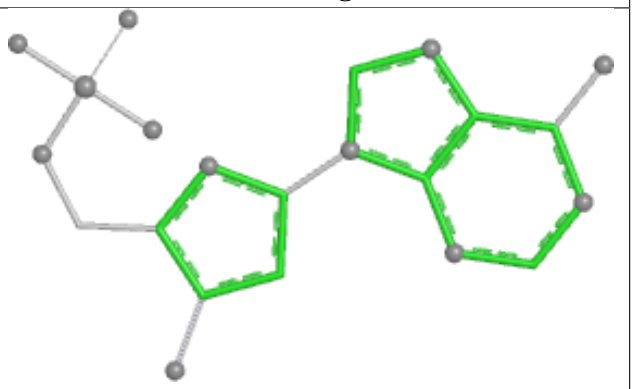
Bond lengths



Bond angles

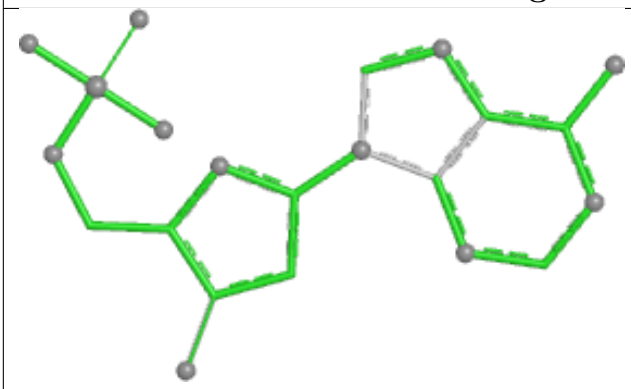


Torsions

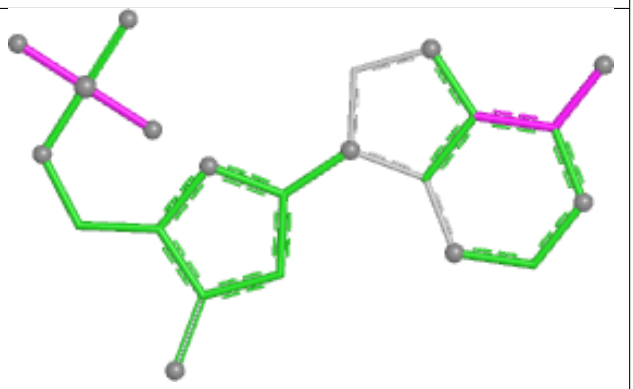


Rings

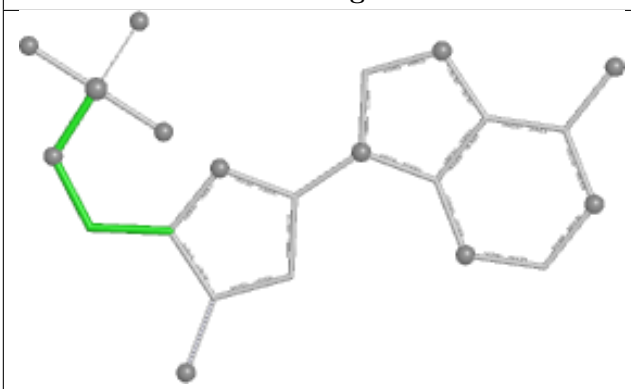
Ligand D5M f 801



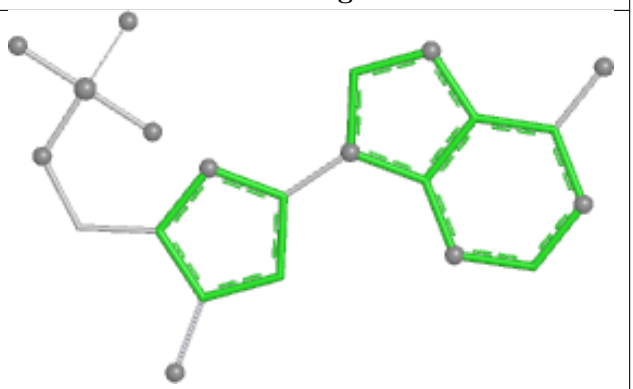
Bond lengths



Bond angles

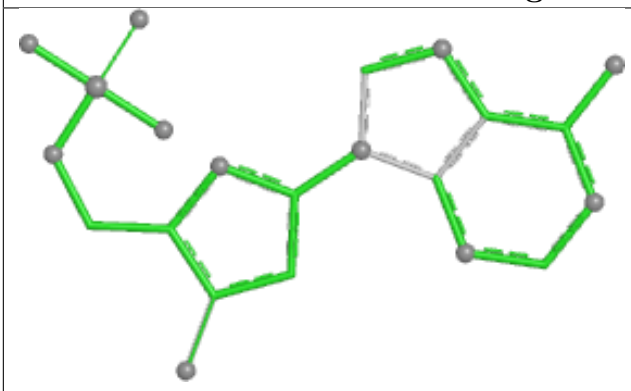


Torsions

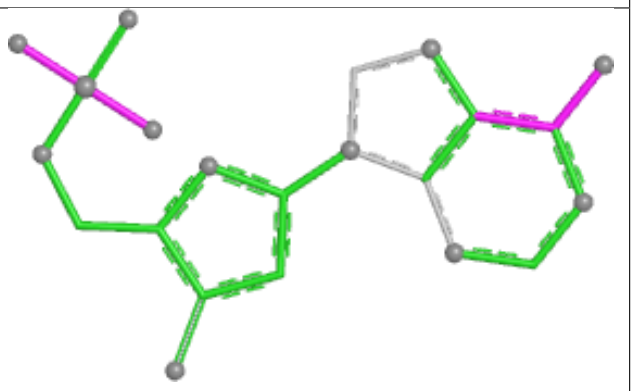


Rings

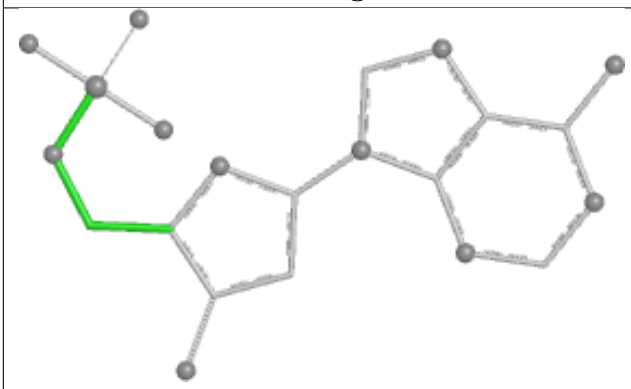
Ligand D5M 1 801



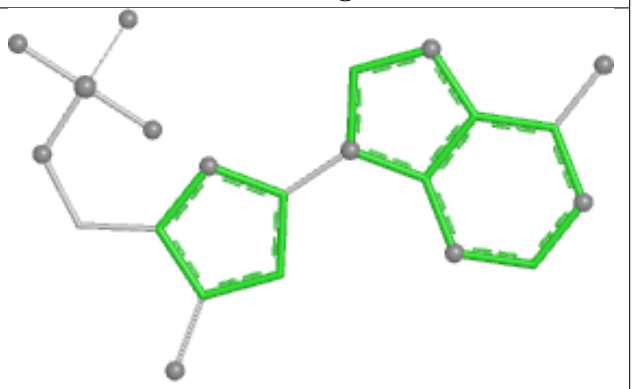
Bond lengths



Bond angles

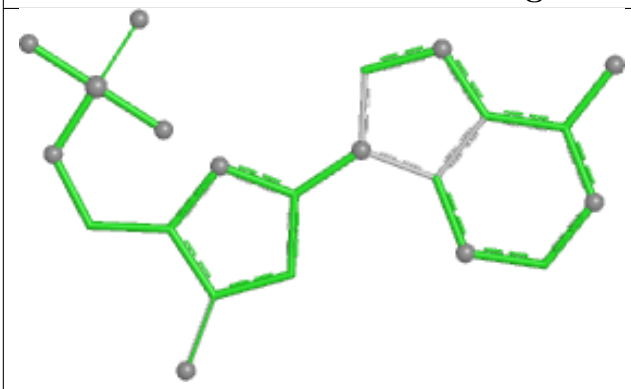


Torsions

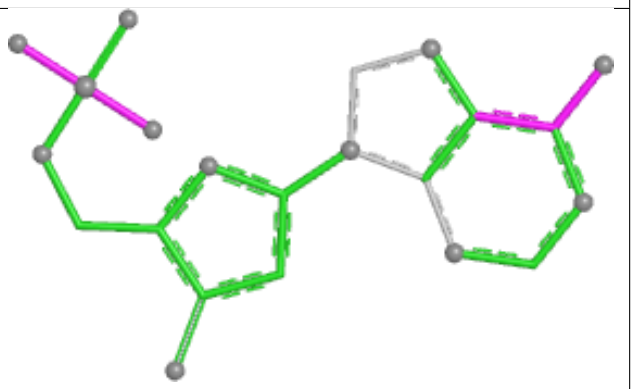


Rings

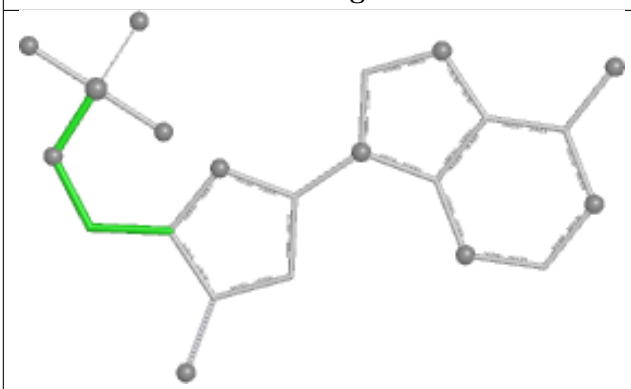
Ligand D5M 8 801



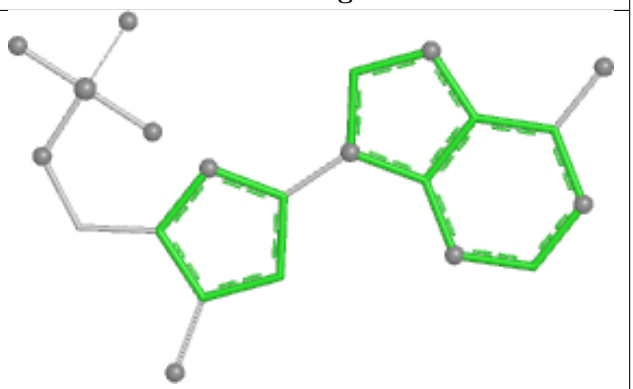
Bond lengths



Bond angles

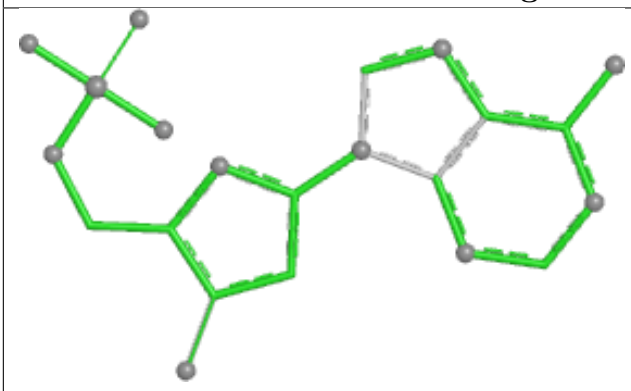


Torsions

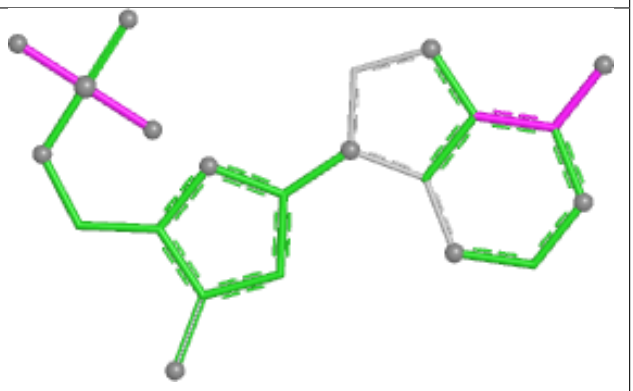


Rings

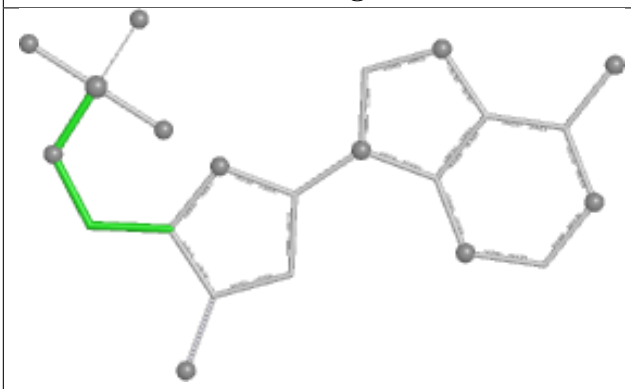
Ligand D5M K 801



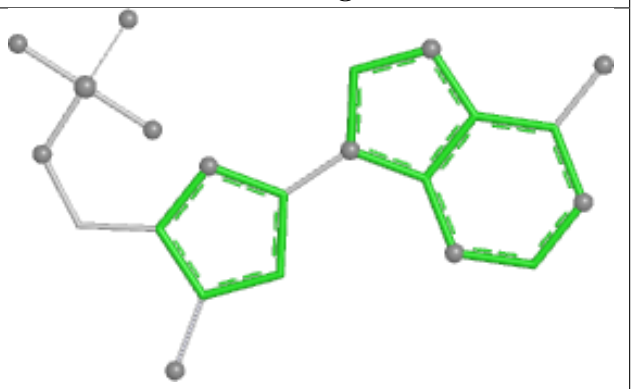
Bond lengths



Bond angles

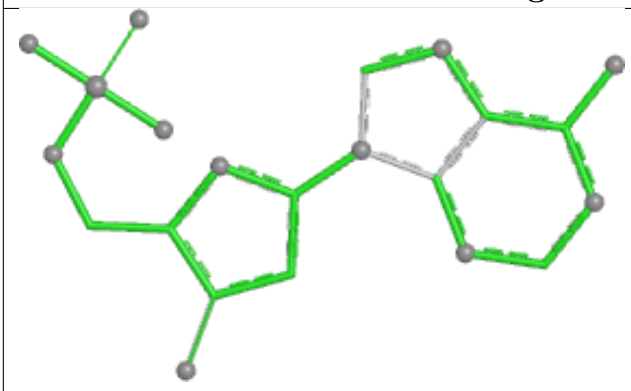


Torsions

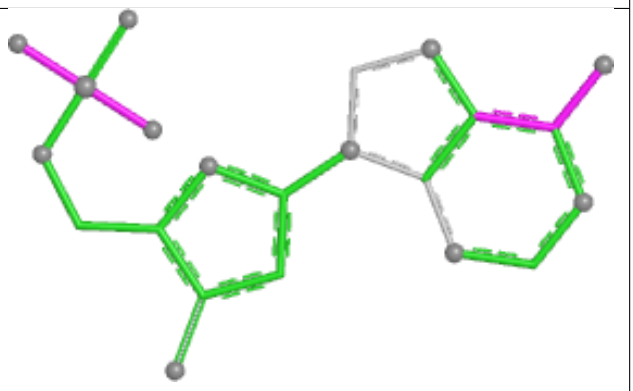


Rings

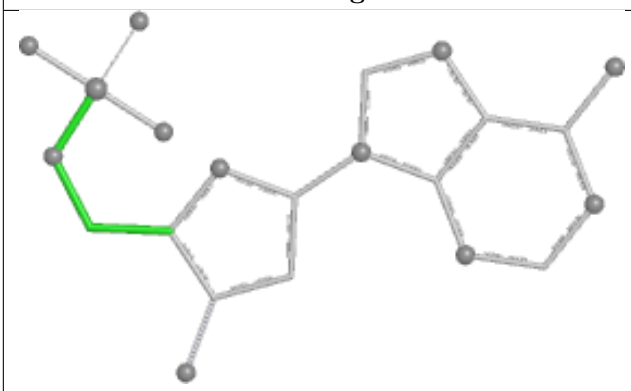
Ligand D5M t 801



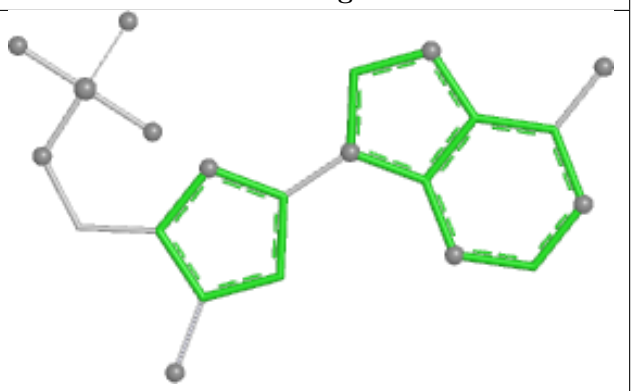
Bond lengths



Bond angles

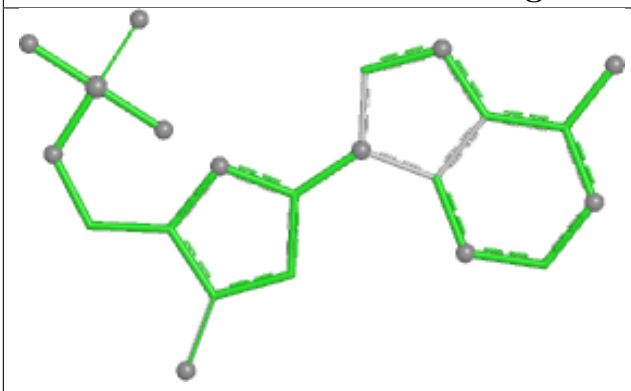


Torsions

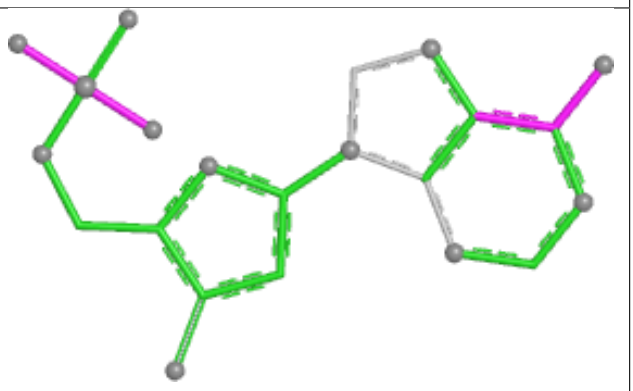


Rings

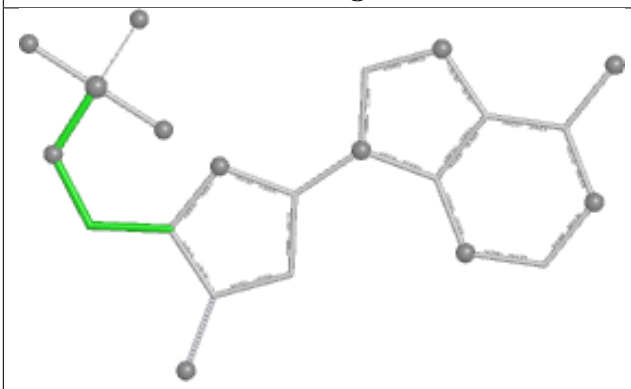
Ligand D5M v 801



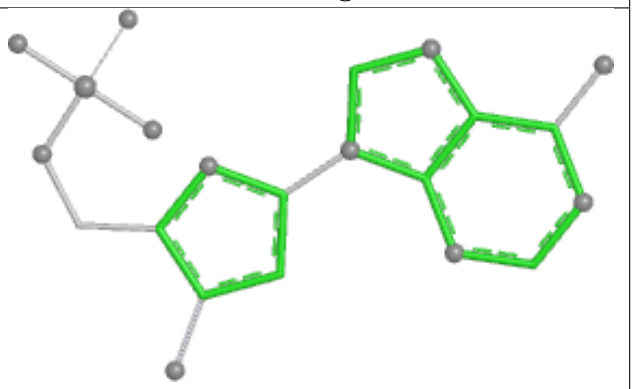
Bond lengths



Bond angles

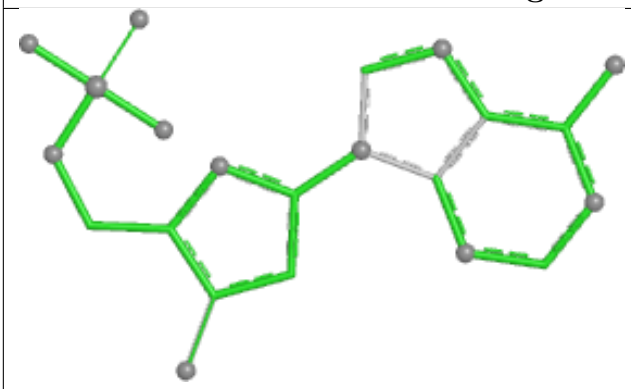


Torsions

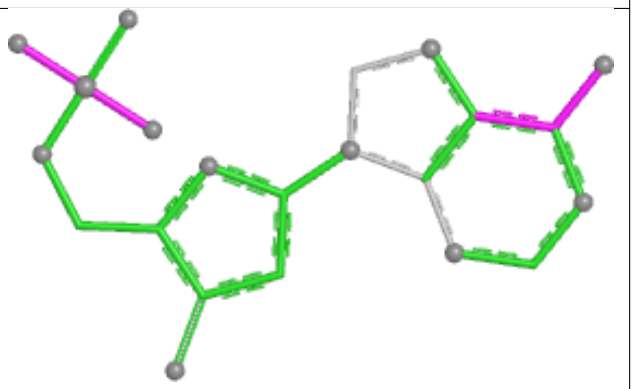


Rings

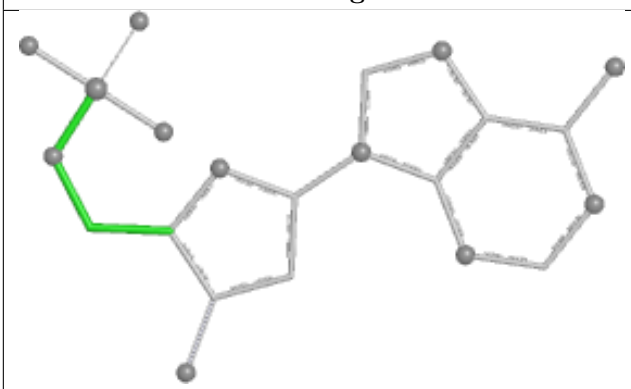
Ligand D5M z 801



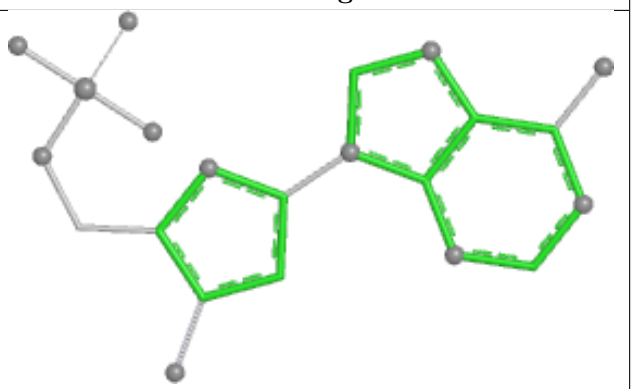
Bond lengths



Bond angles

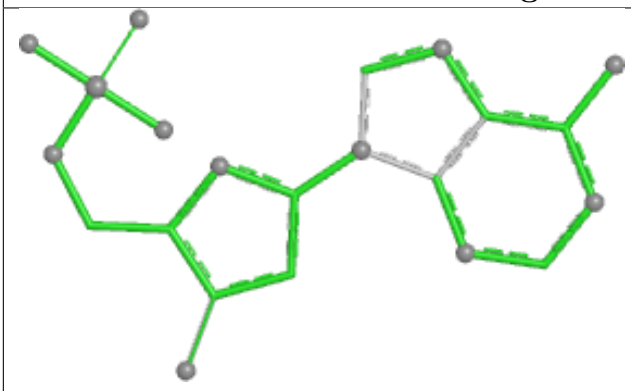


Torsions

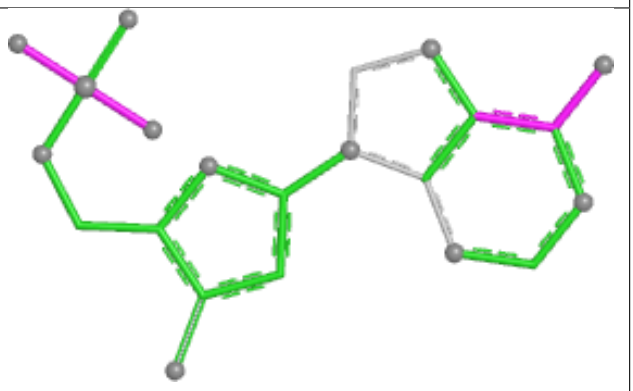


Rings

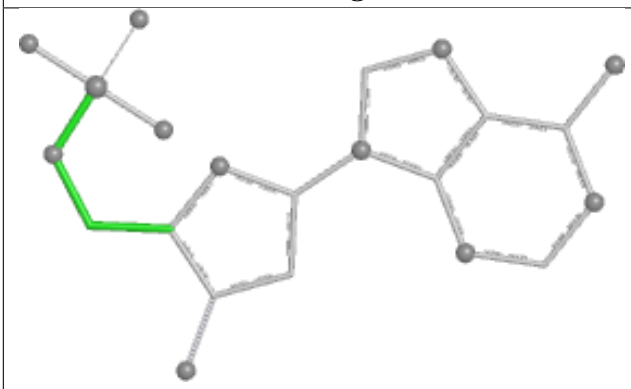
Ligand D5M N 801



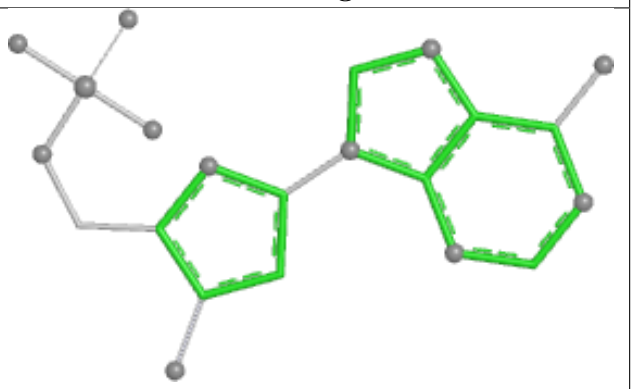
Bond lengths



Bond angles

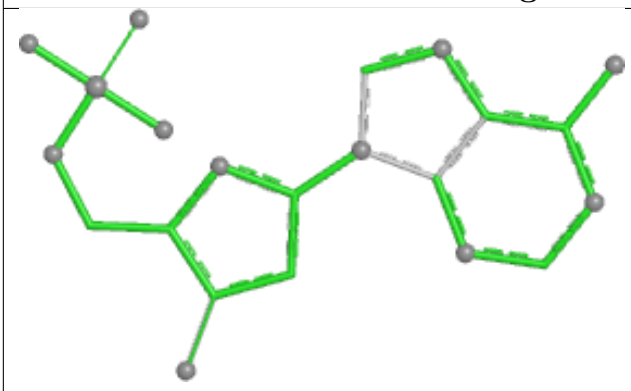


Torsions

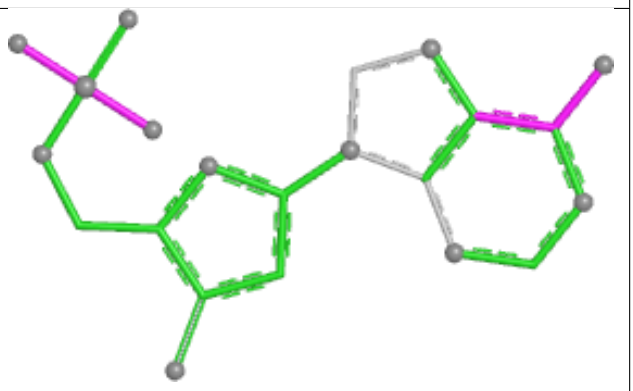


Rings

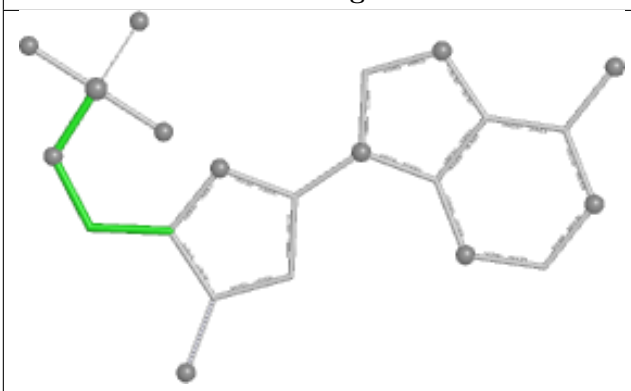
Ligand D5M m 801



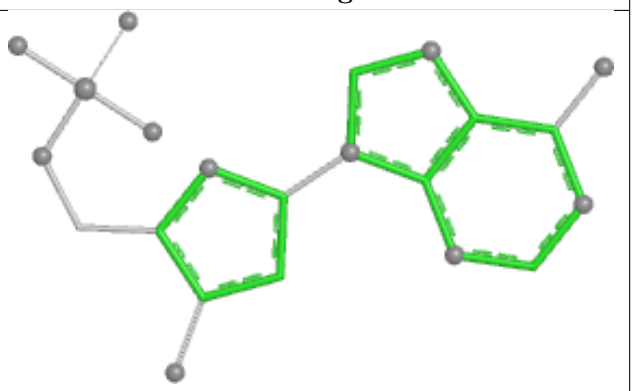
Bond lengths



Bond angles

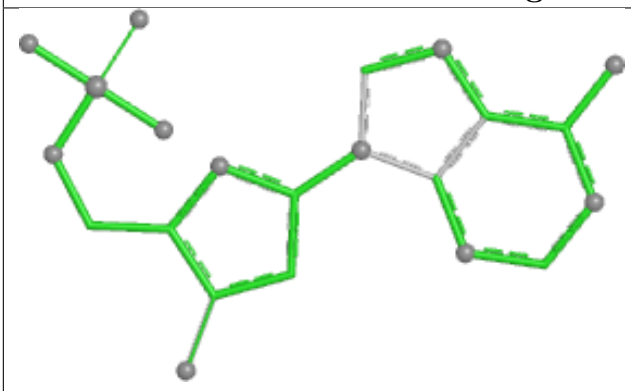


Torsions

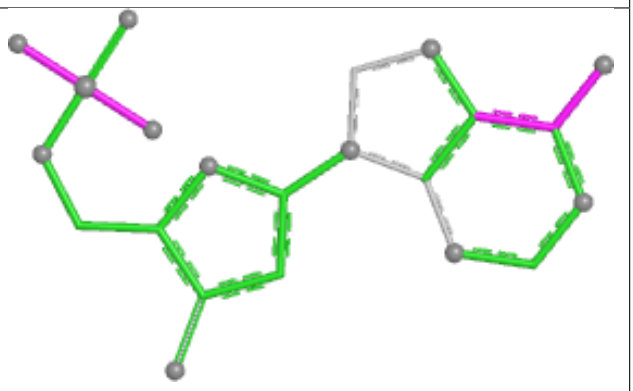


Rings

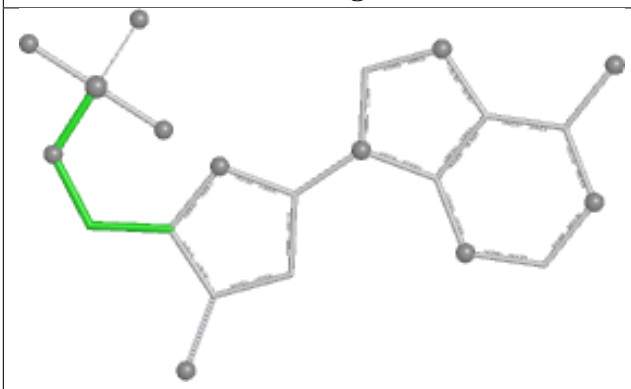
Ligand D5M 6 801



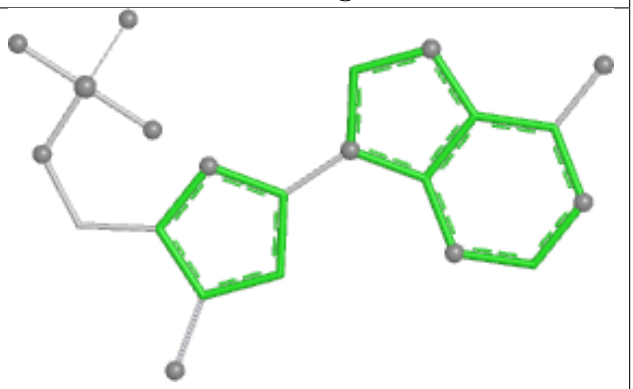
Bond lengths



Bond angles

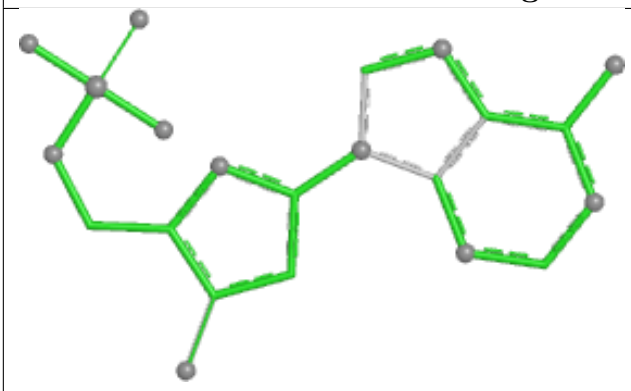


Torsions

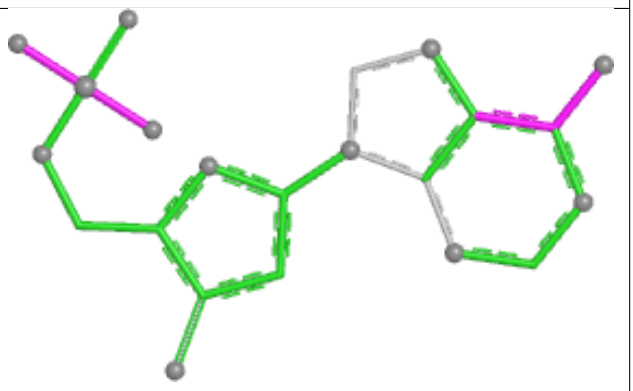


Rings

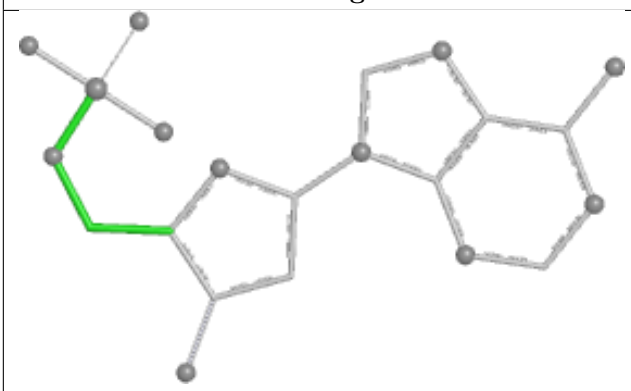
Ligand D5M R 801



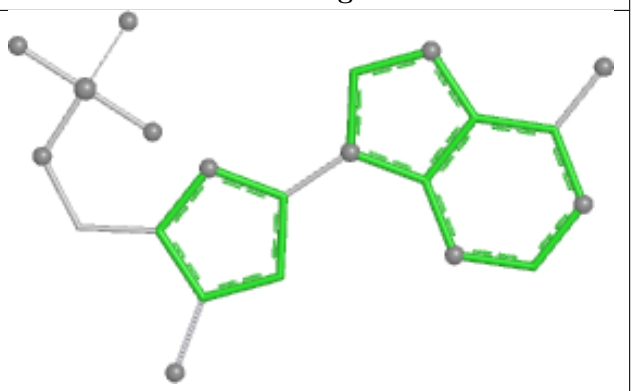
Bond lengths



Bond angles

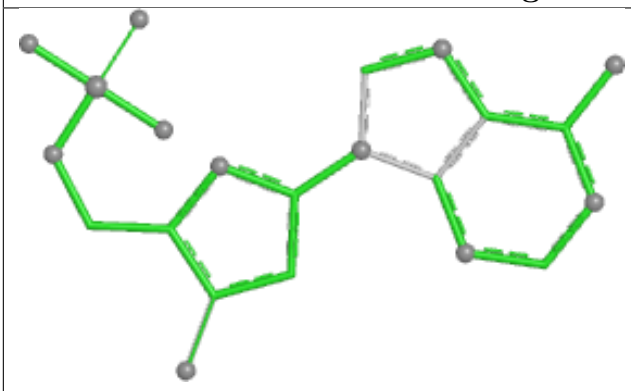


Torsions

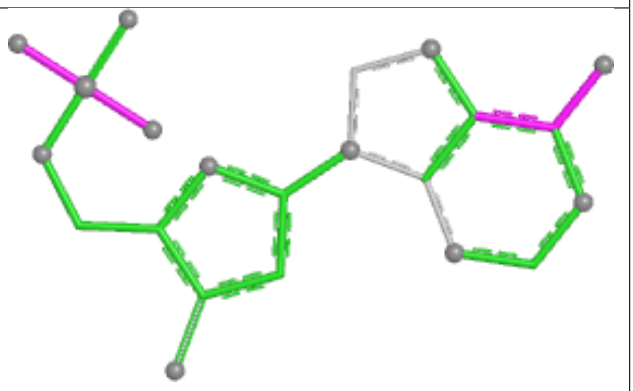


Rings

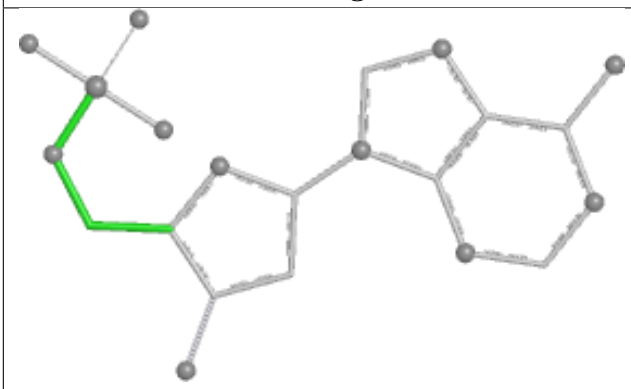
Ligand D5M B 801



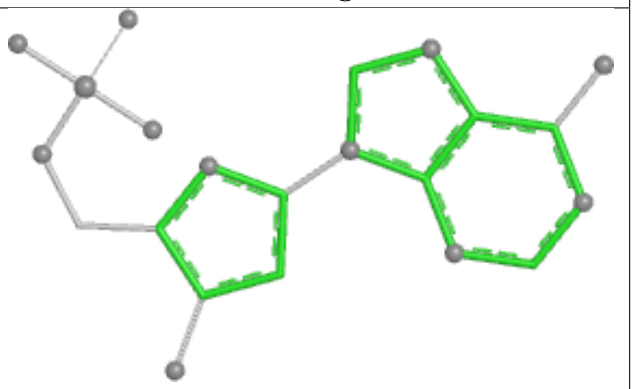
Bond lengths



Bond angles

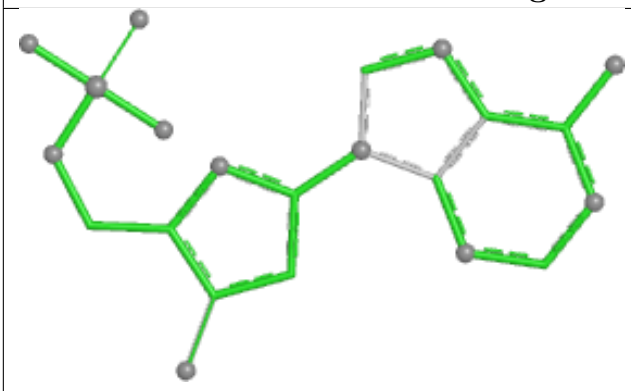


Torsions

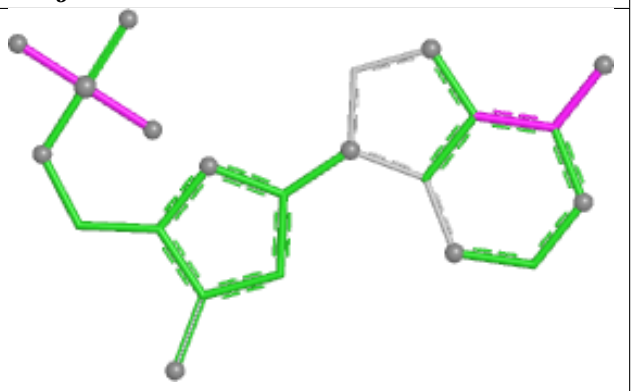


Rings

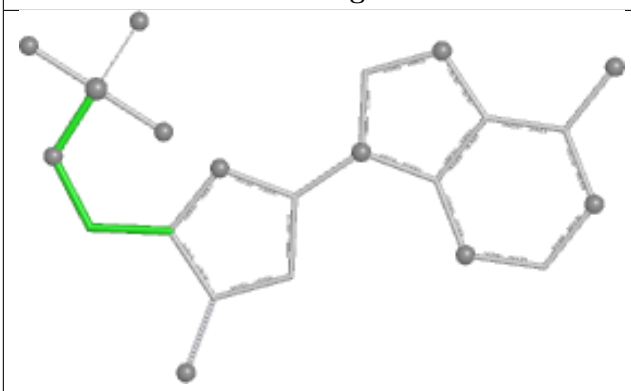
Ligand D5M j 801



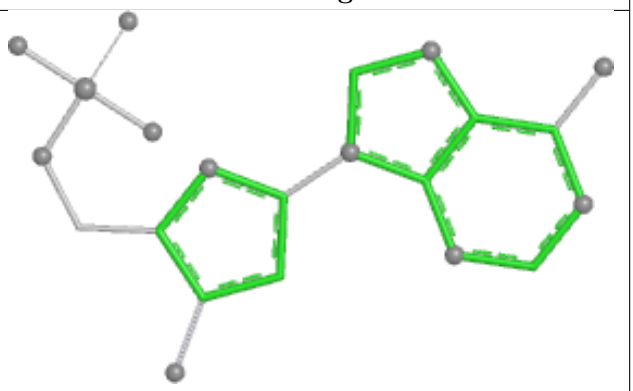
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

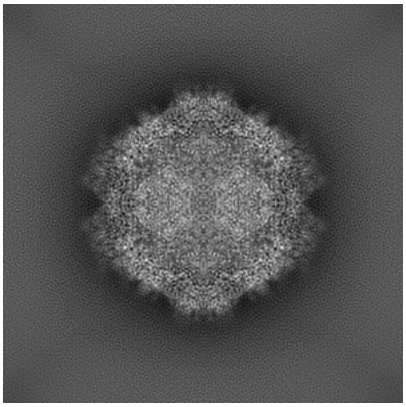
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23190. These allow visual inspection of the internal detail of the map and identification of artifacts.

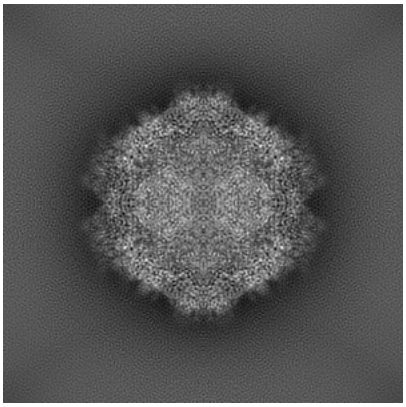
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

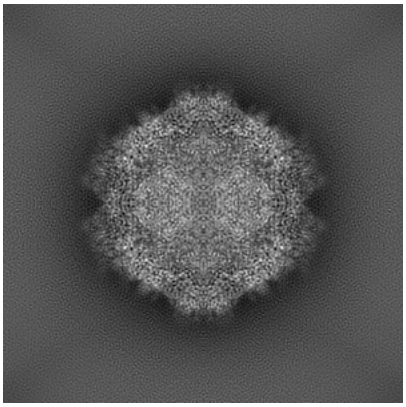
6.1.1 Primary map



X



Y

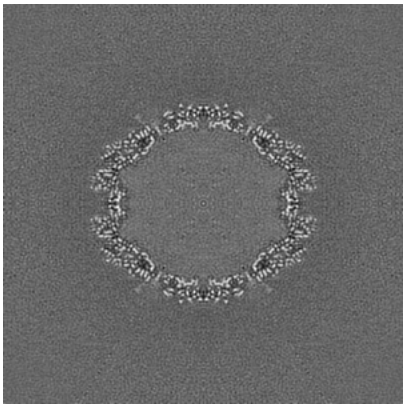


Z

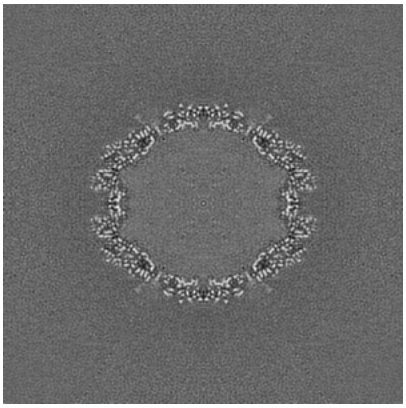
The images above show the map projected in three orthogonal directions.

6.2 Central slices

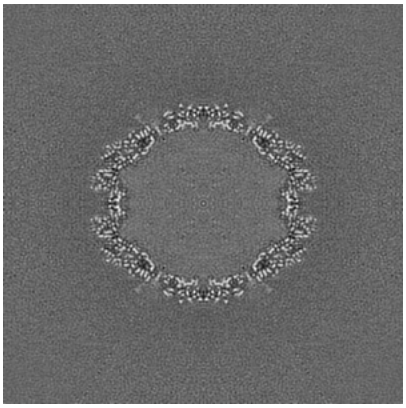
6.2.1 Primary map



X Index: 210



Y Index: 210

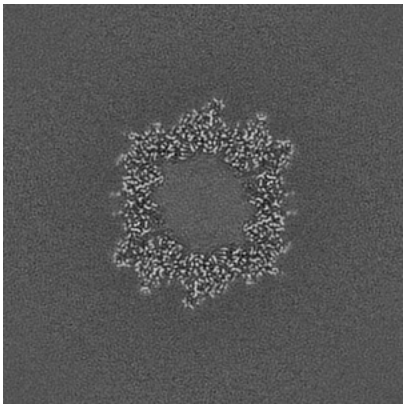


Z Index: 210

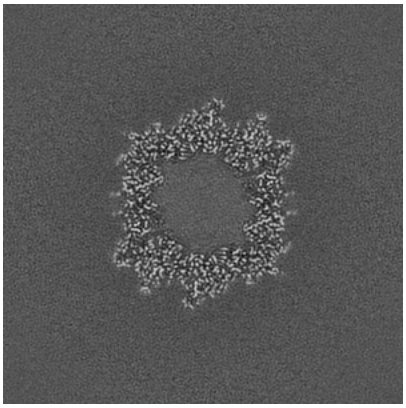
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

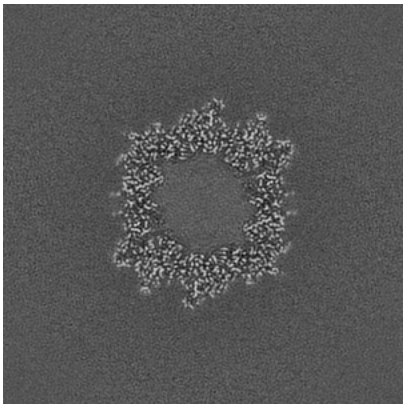
6.3.1 Primary map



X Index: 271



Y Index: 271

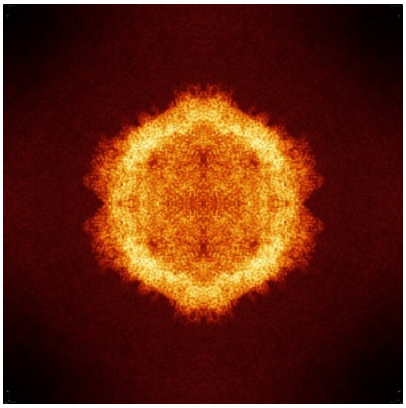


Z Index: 271

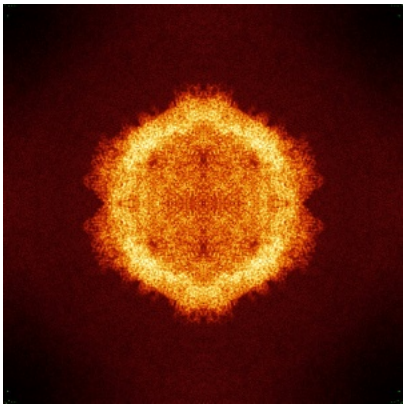
The images above show the largest variance slices of the map in three orthogonal directions.

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

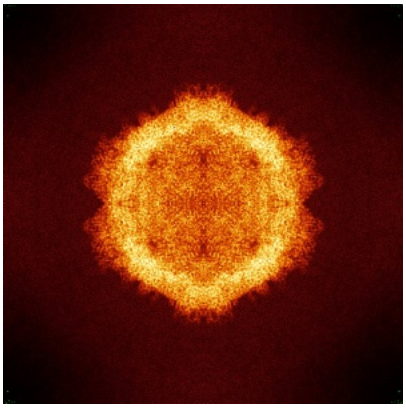
6.4.1 Primary map



X



Y

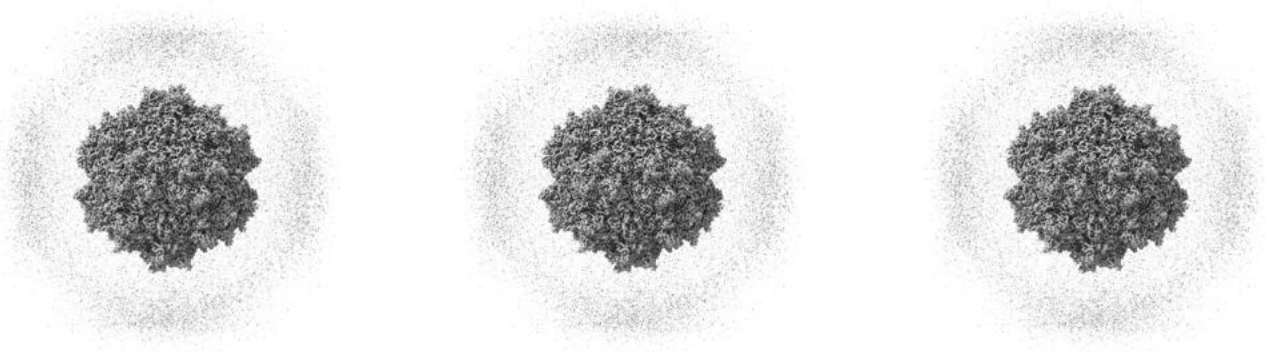


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

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

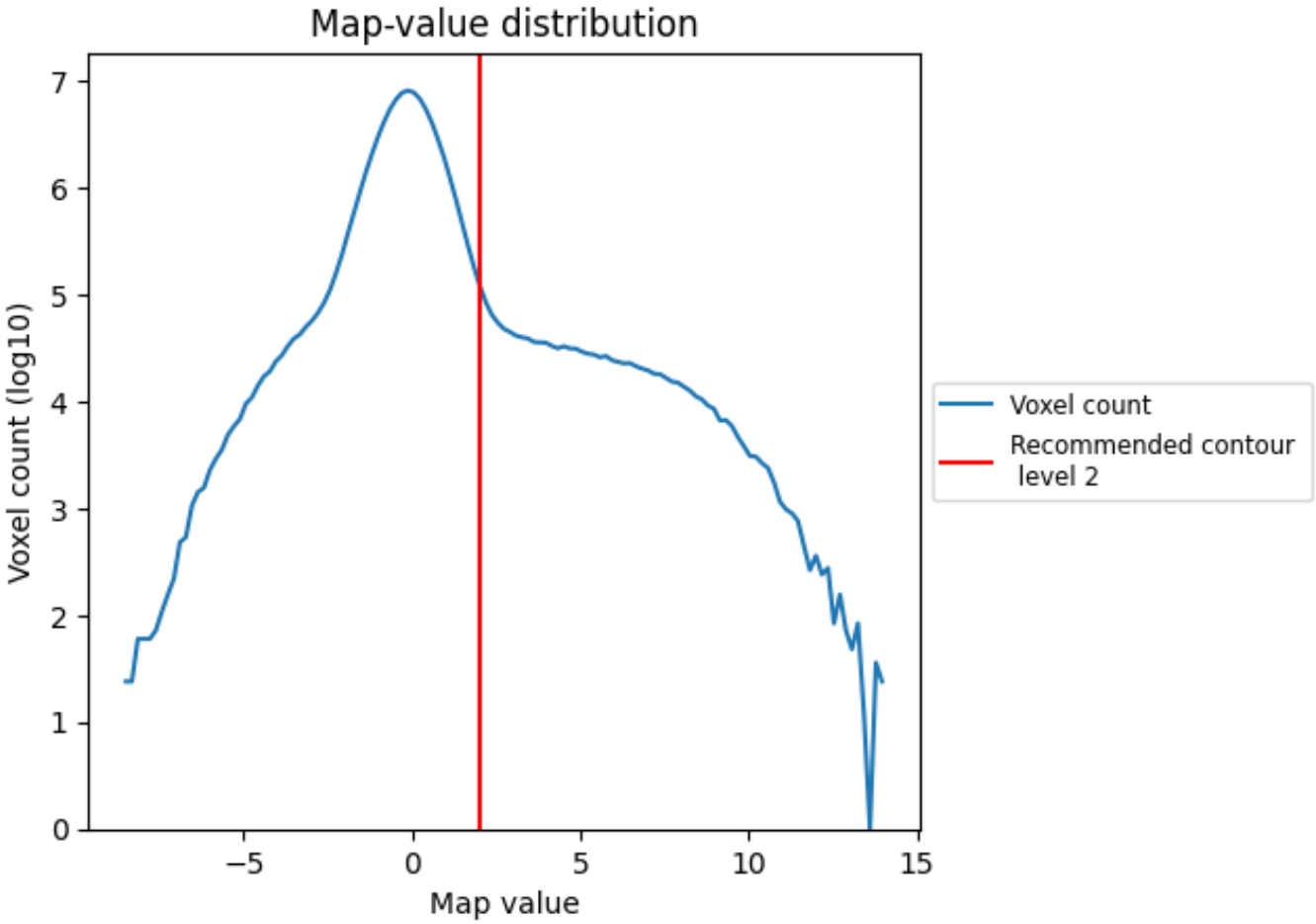
6.6 Mask visualisation (i)

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

7 Map analysis

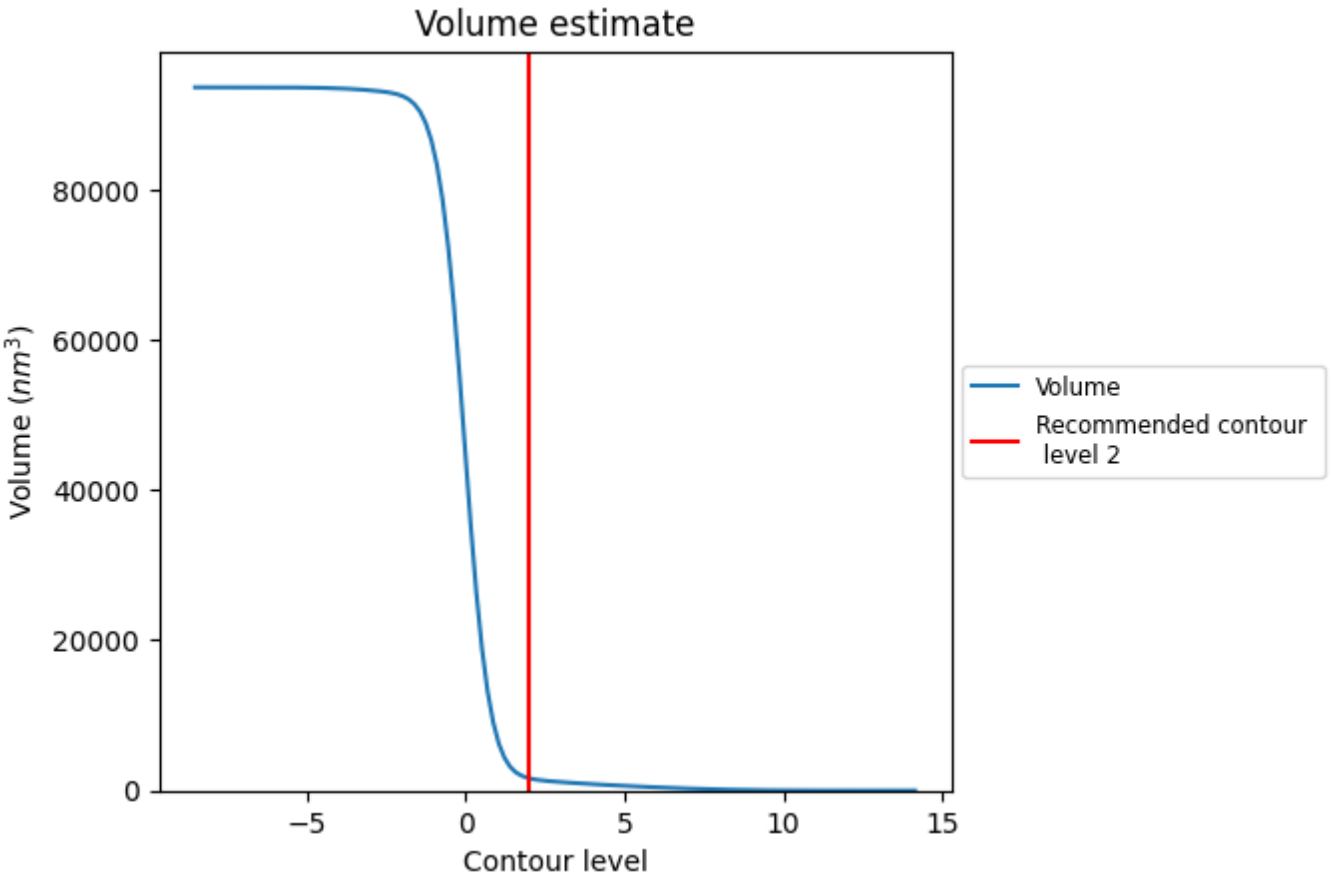
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

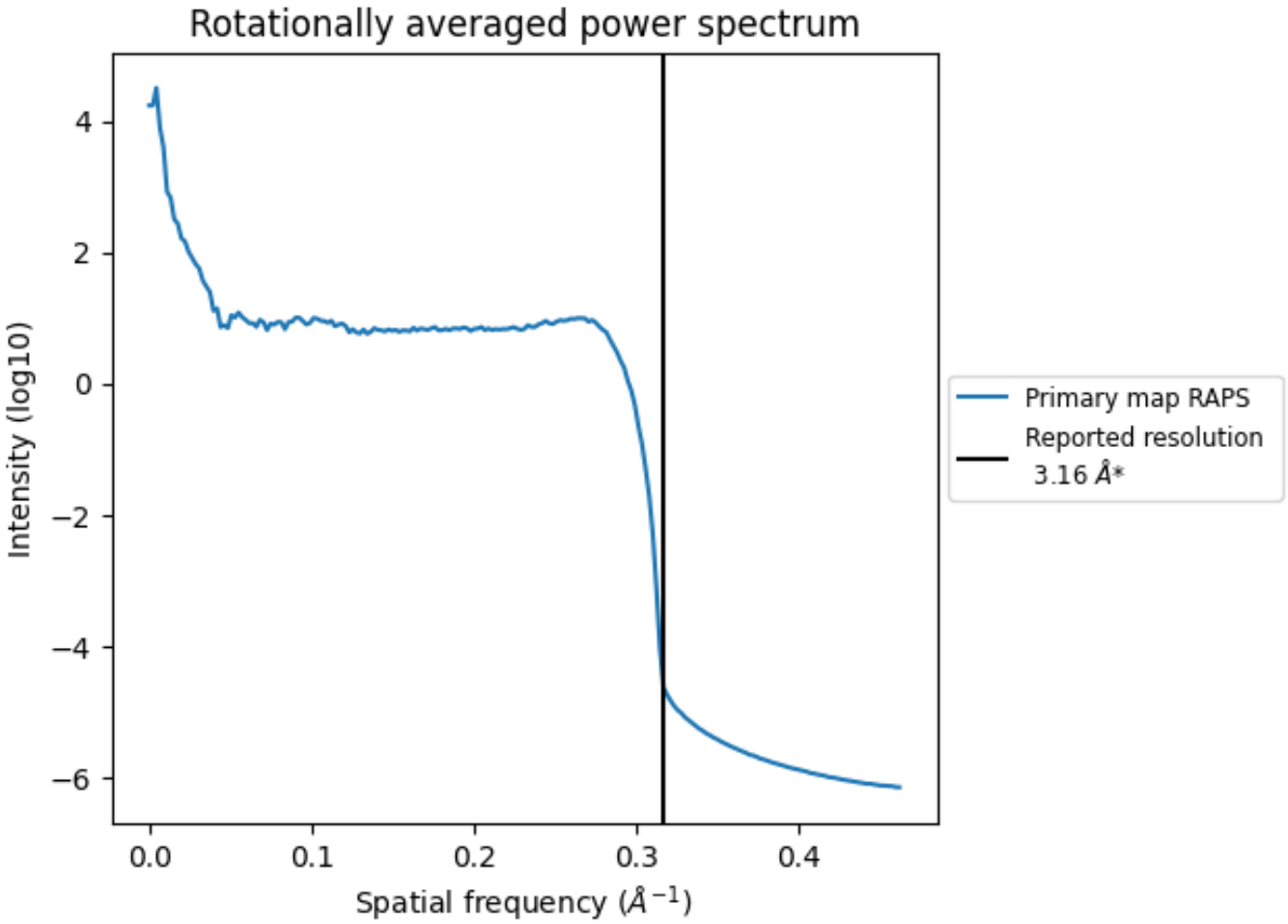
7.2 Volume estimate



The volume at the recommended contour level is 1648 nm^3; this corresponds to an approximate mass of 1489 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.316 Å^{-1}

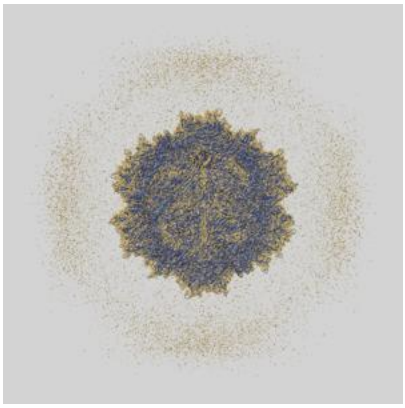
8 Fourier-Shell correlation

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

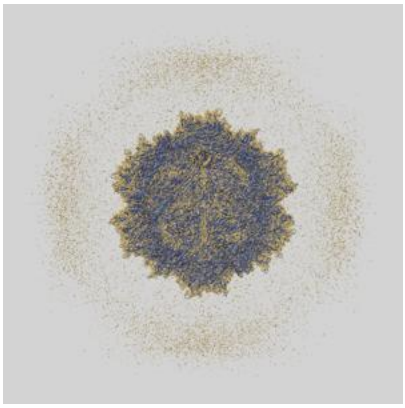
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23190 and PDB model 7L5U. Per-residue inclusion information can be found in section 3 on page 13.

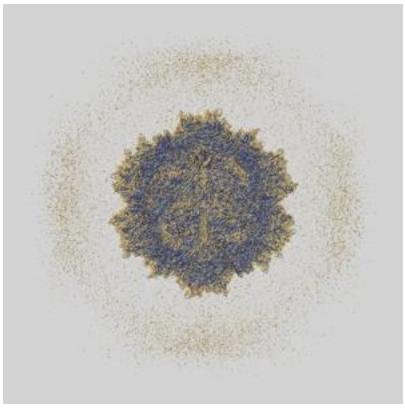
9.1 Map-model overlay



X



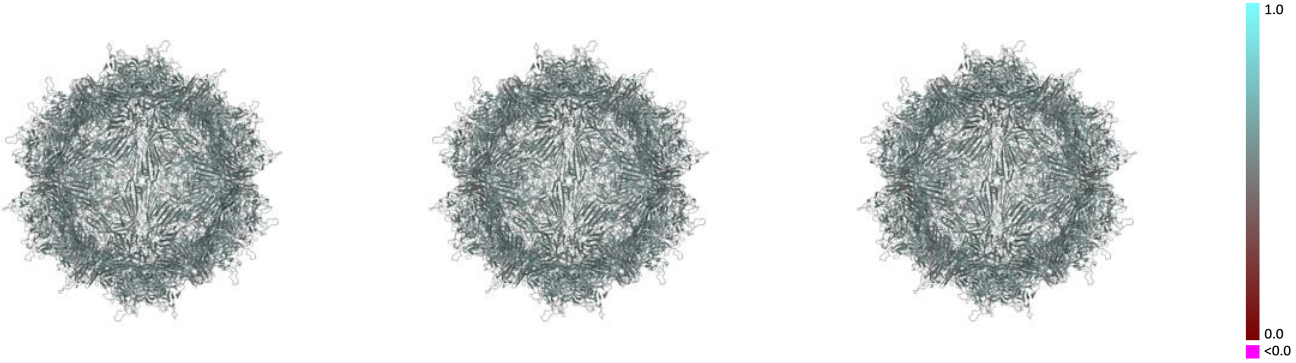
Y



Z

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

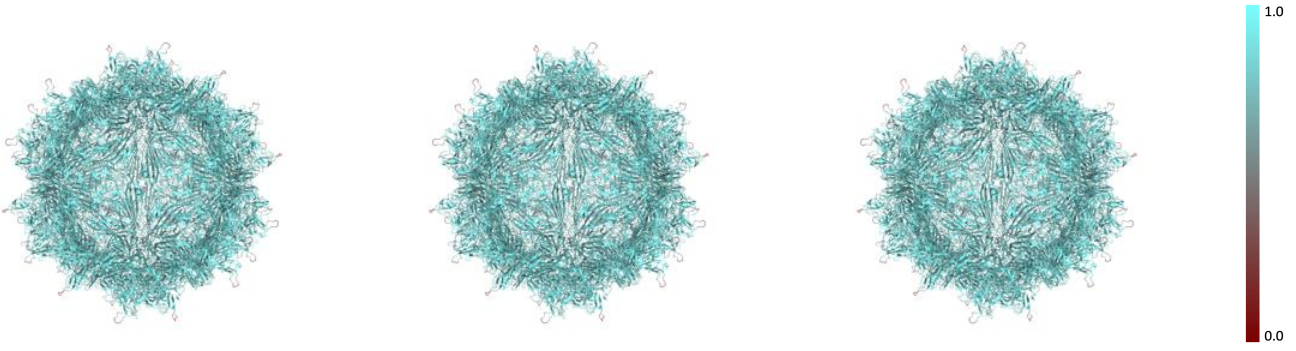
9.2 Q-score mapped to coordinate model



X Y Z

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

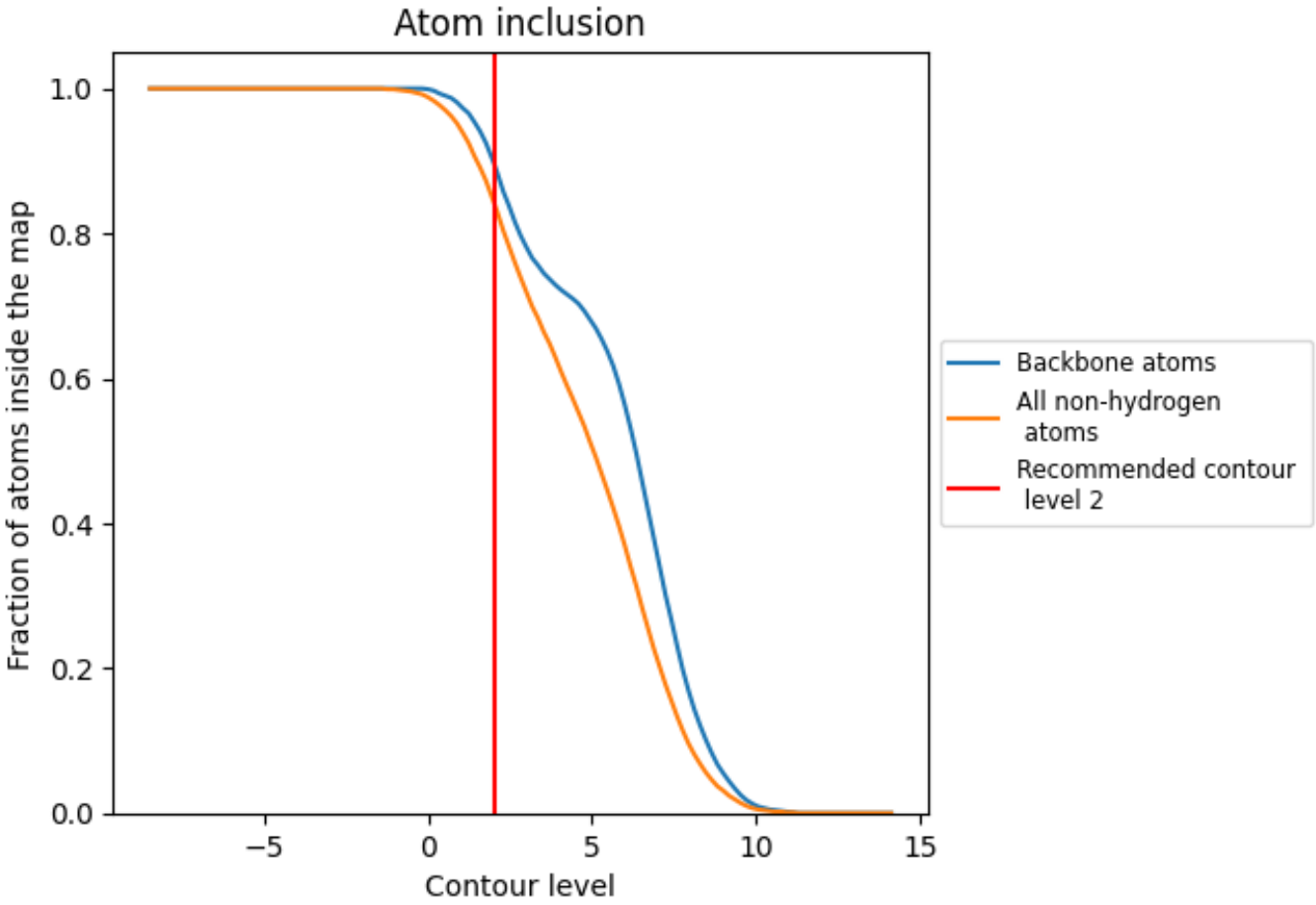
9.3 Atom inclusion mapped to coordinate model



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 90% of all backbone atoms, 84% 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	0.8430	0.5460
1	0.8450	0.5470
2	0.8450	0.5450
3	0.8420	0.5450
4	0.8420	0.5480
5	0.8450	0.5470
6	0.8450	0.5470
7	0.8450	0.5460
8	0.8440	0.5470
A	0.8410	0.5460
B	0.8450	0.5460
C	0.8420	0.5470
D	0.8450	0.5460
E	0.8440	0.5460
F	0.8410	0.5460
G	0.8440	0.5460
H	0.8450	0.5470
I	0.8420	0.5460
J	0.8450	0.5470
K	0.8420	0.5470
L	0.8450	0.5460
M	0.8440	0.5460
N	0.8450	0.5470
O	0.8440	0.5470
P	0.8440	0.5460
Q	0.8420	0.5470
R	0.8450	0.5460
S	0.8450	0.5460
T	0.8420	0.5470
U	0.8450	0.5470
V	0.8420	0.5470
W	0.8450	0.5480
X	0.8440	0.5450
Y	0.8450	0.5460
Z	0.8440	0.5470

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
a	0.8420	0.5460
b	0.8410	0.5470
c	0.8410	0.5460
d	0.8420	0.5460
e	0.8410	0.5460
f	0.8410	0.5460
g	0.8420	0.5460
h	0.8440	0.5470
i	0.8450	0.5460
j	0.8460	0.5460
k	0.8460	0.5460
l	0.8440	0.5470
m	0.8420	0.5460
n	0.8420	0.5470
o	0.8440	0.5450
p	0.8420	0.5470
q	0.8450	0.5450
r	0.8450	0.5470
s	0.8450	0.5460
t	0.8440	0.5470
u	0.8420	0.5460
v	0.8410	0.5450
w	0.8440	0.5450
x	0.8420	0.5460
y	0.8410	0.5450
z	0.8450	0.5460