



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 04:05 PM UTC

PDB ID : 7L6E / pdb_00007l6e
EMDB ID : EMD-23202
Title : The genome-containing AAV11 capsid
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-23
Resolution : 3.15 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

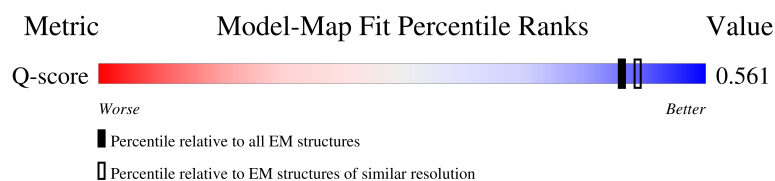
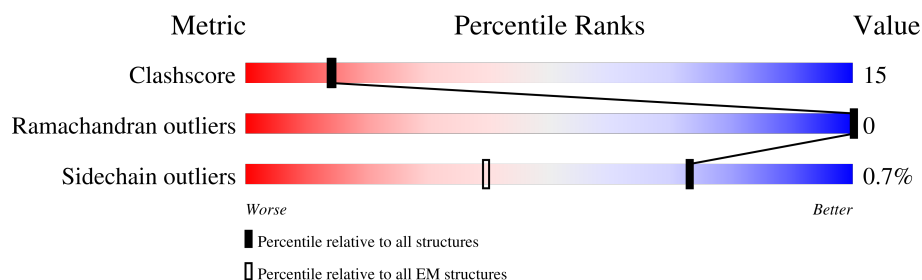
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.15 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14486 (2.65 - 3.65)

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

Mol	Chain	Length	Quality of chain
1	1	521	 67% 33%
1	2	521	 68% 32%
1	3	521	 68% 32%
1	4	521	 67% 33%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain	
1	5	521		66% 33%
1	6	521		67% 33%
1	7	521		67% 33%
1	8	521		67% 32%
1	A	521		67% 33%
1	B	521		67% 33%
1	C	521		66% 33%
1	D	521		67% 33%
1	E	521		67% 32%
1	F	521		66% 33%
1	G	521		66% 33%
1	H	521		67% 32%
1	I	521		67% 32%
1	J	521		67% 32%
1	K	521		67% 33%
1	L	521		67% 33%
1	M	521		66% 33%
1	N	521		67% 33%
1	O	521		66% 33%
1	P	521		66% 33%
1	Q	521		67% 32%
1	R	521		67% 33%
1	S	521		67% 33%
1	T	521		66% 33%
1	U	521		67% 33%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain	
1	V	521		
1	W	521		
1	X	521		
1	Y	521		
1	Z	521		
1	a	521		
1	b	521		
1	c	521		
1	d	521		
1	e	521		
1	f	521		
1	g	521		
1	h	521		
1	i	521		
1	j	521		
1	k	521		
1	l	521		
1	m	521		
1	n	521		
1	o	521		
1	p	521		
1	q	521		
1	r	521		
1	s	521		
1	t	521		

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain	
1	u	521		
1	v	521		
1	w	521		
1	x	521		
1	y	521		
1	z	521		

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 248700 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	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	B	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	C	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	D	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	E	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	F	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	G	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	H	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	I	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	J	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	K	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	L	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	M	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	N	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	O	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	P	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	Q	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	S	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	T	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	U	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	V	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	W	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	X	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	Y	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	Z	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	a	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	b	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	c	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	d	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	e	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	f	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	g	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	h	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	i	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	j	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	k	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	l	521	Total 4123	C 2607	N 712	O 787	S 17	0	0

Continued on next page...

Continued from previous page...

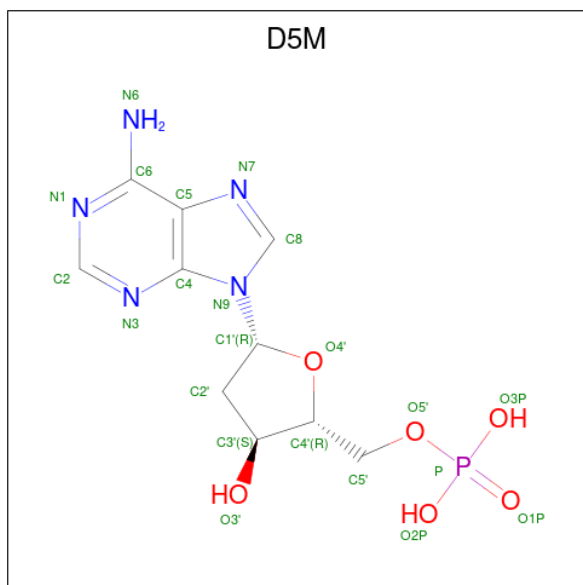
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	n	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	o	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	p	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	q	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	r	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	s	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	t	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	u	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	v	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	w	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	x	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	y	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	z	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	1	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	2	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	3	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	4	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	5	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	6	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	7	521	Total 4123	C 2607	N 712	O 787	S 17	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		

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

Continued on next page...

Continued from previous page...

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

Continued on next page...

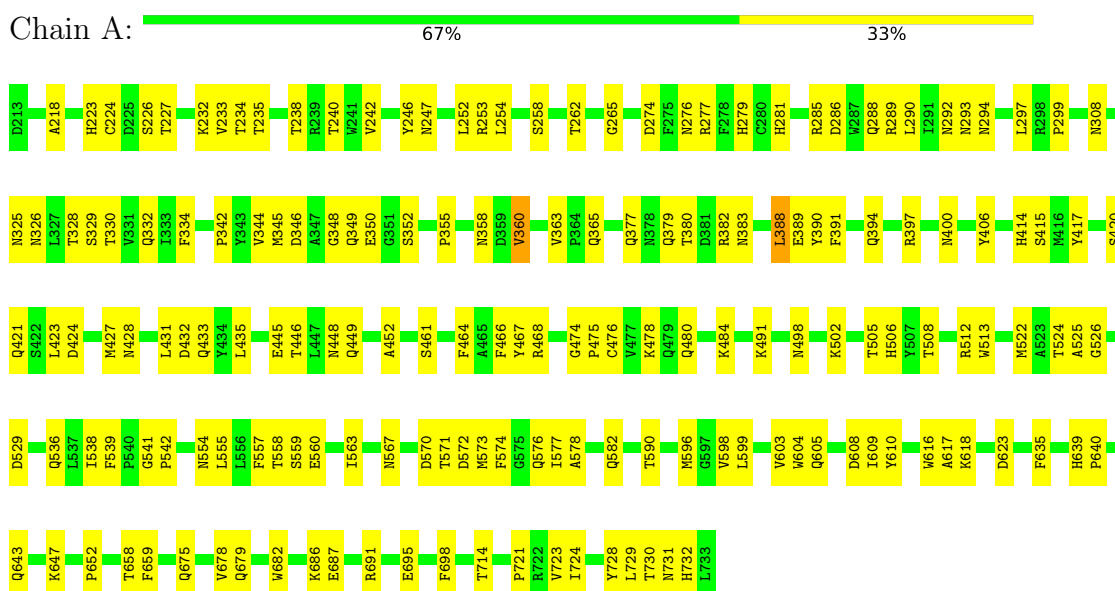
Continued from previous page...

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	

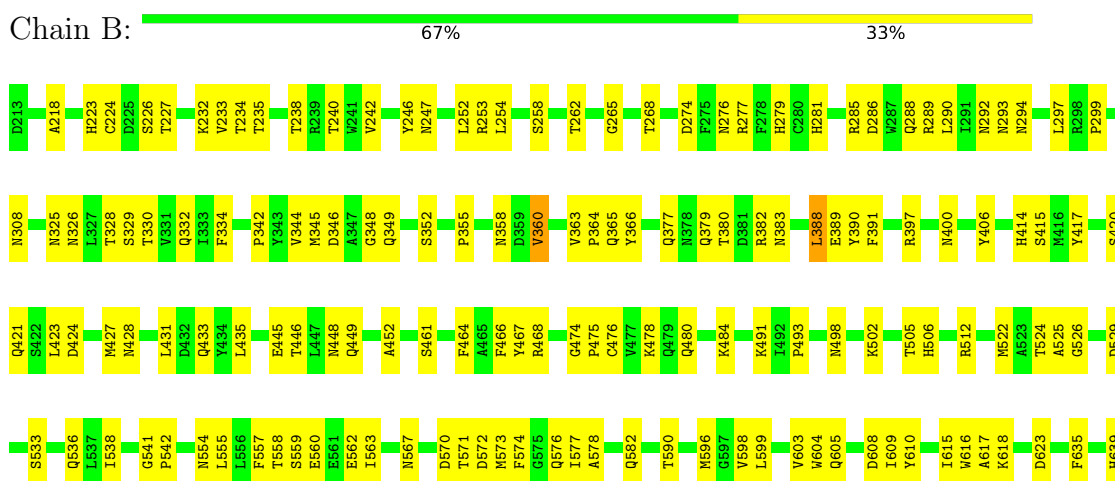
3 Residue-property plots

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



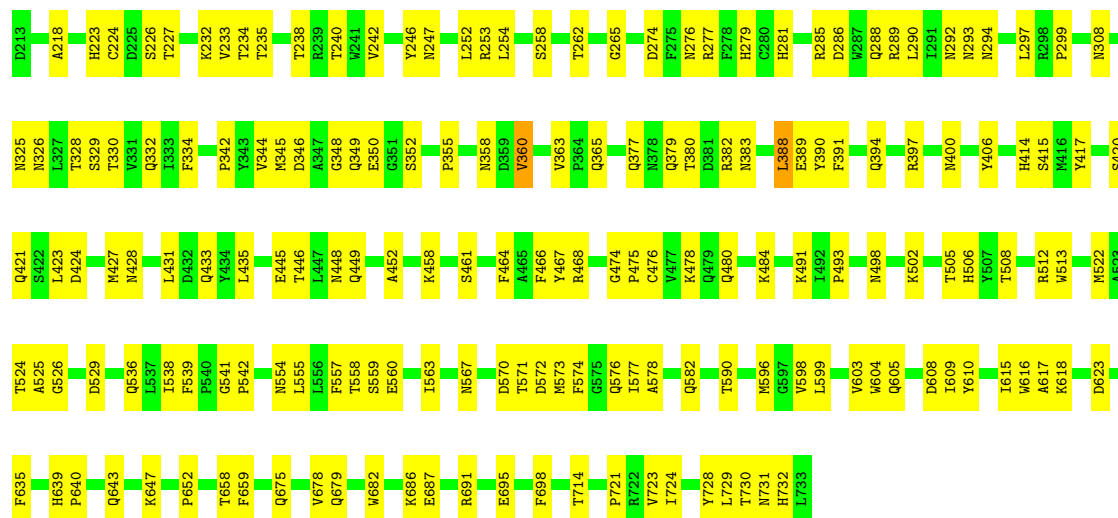
- Molecule 1: Capsid protein





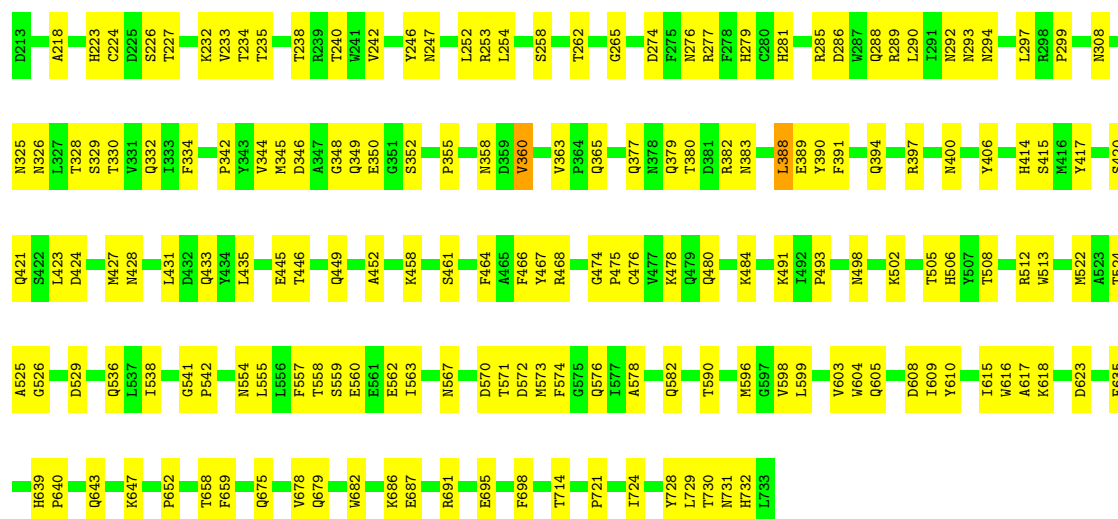
• Molecule 1: Capsid protein

Chain C: 66% 33%



• Molecule 1: Capsid protein

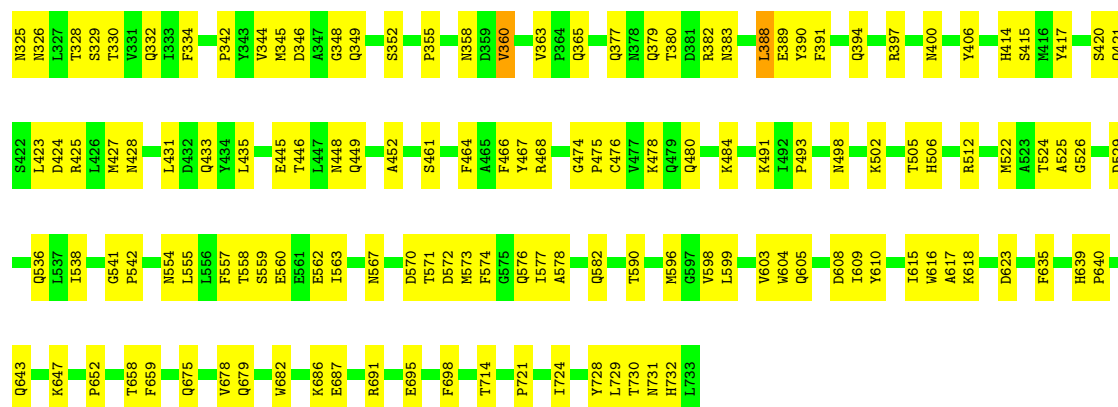
Chain D: 67% 33%



• Molecule 1: Capsid protein

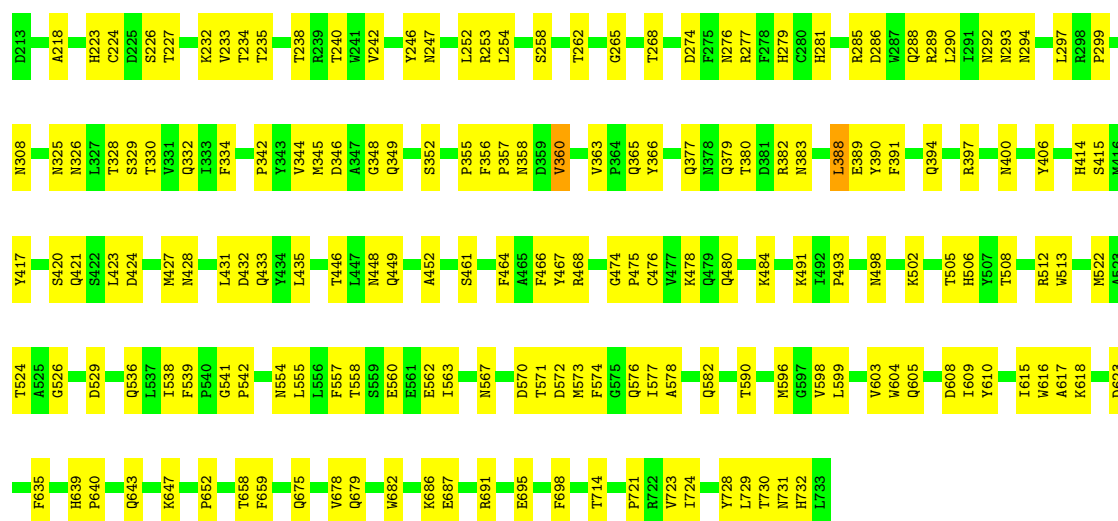
Chain E: 67% 32%





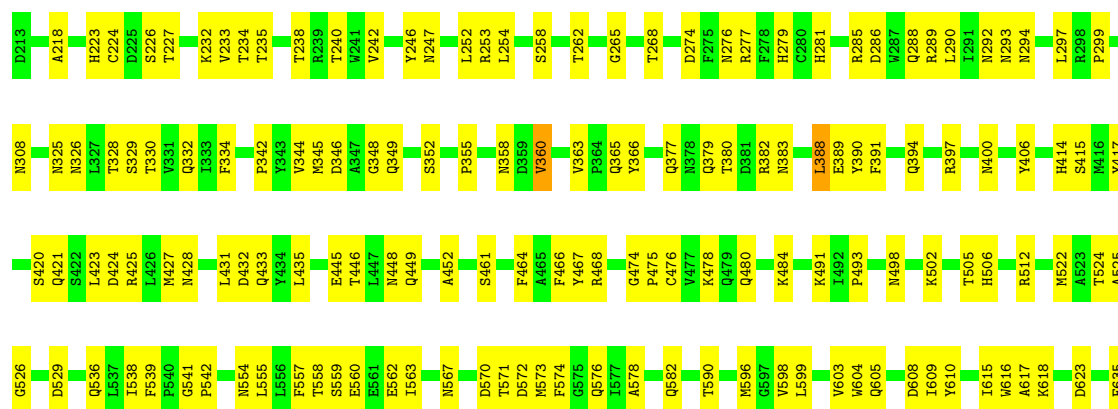
• Molecule 1: Capsid protein

Chain F: 66% 33%



• Molecule 1: Capsid protein

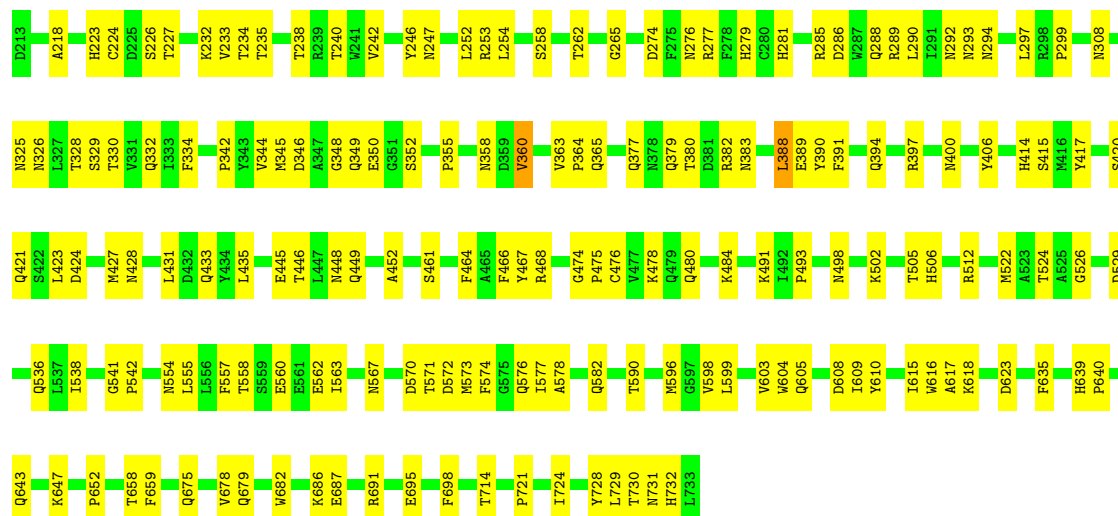
Chain G: 66% 33%





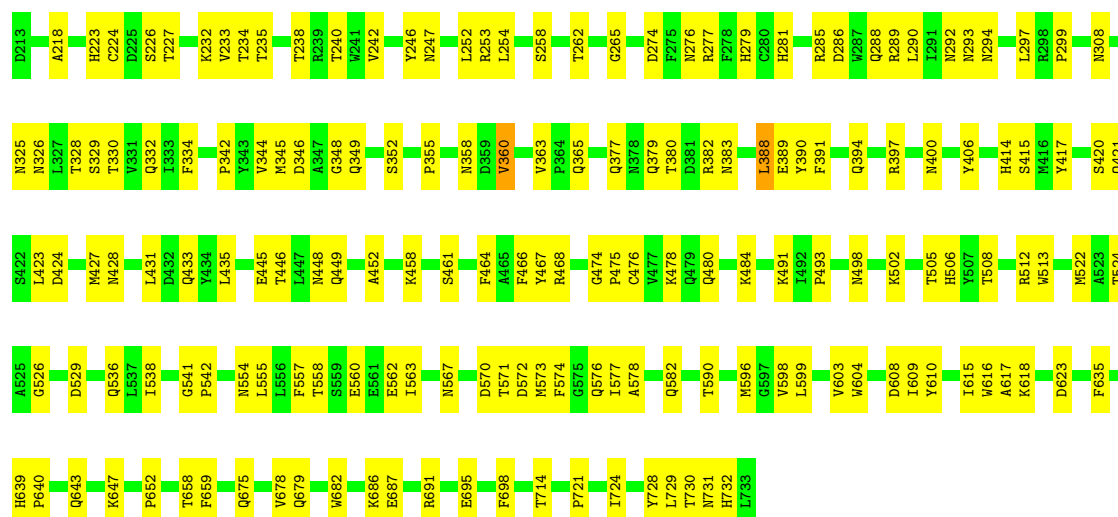
• Molecule 1: Capsid protein

Chain H: 67% 32%



• Molecule 1: Capsid protein

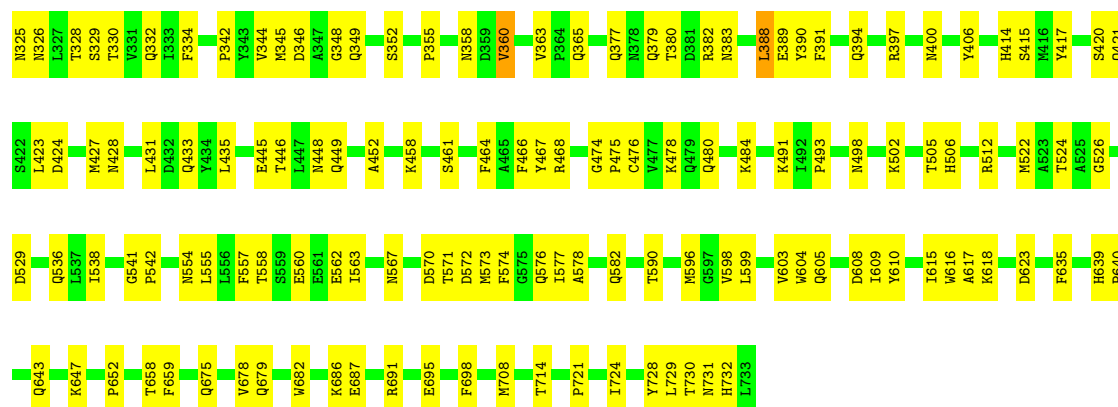
Chain I: 67% 32%



• Molecule 1: Capsid protein

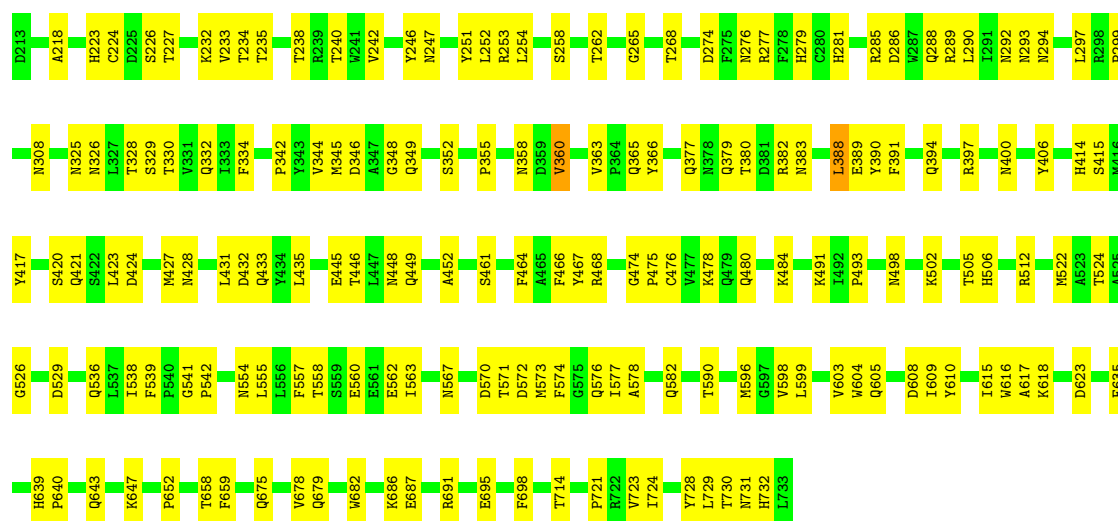
Chain J: 67% 32%





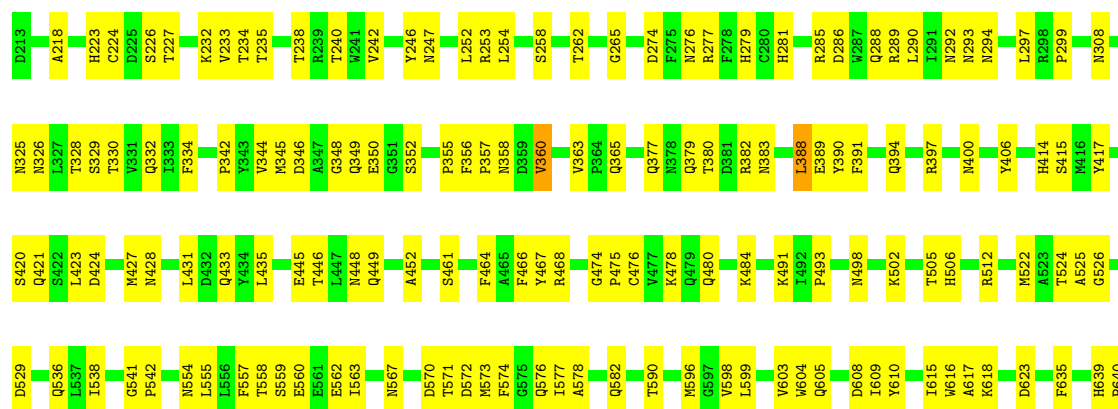
• Molecule 1: Capsid protein

Chain K: 67% 33%



• Molecule 1: Capsid protein

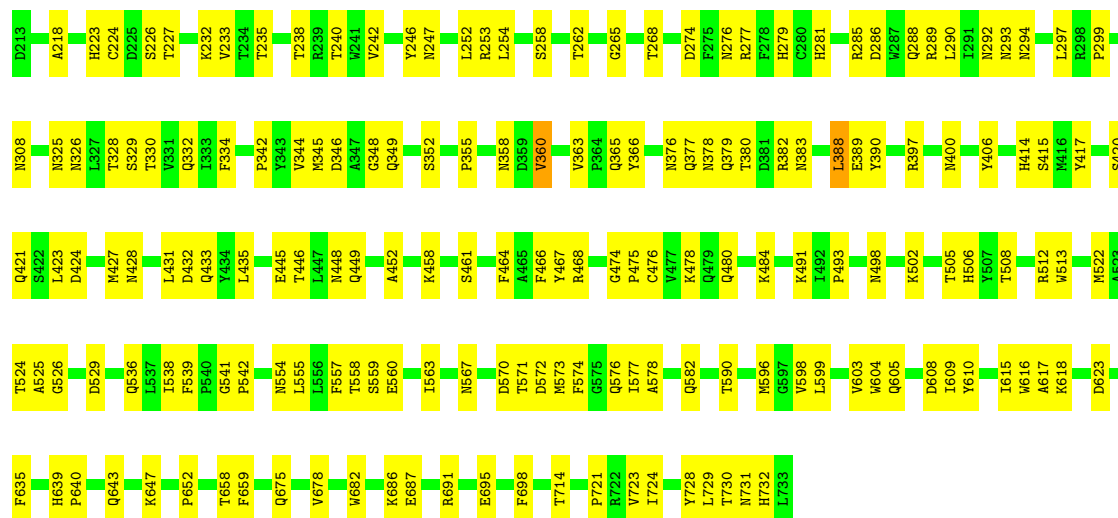
Chain L: 67% 33%





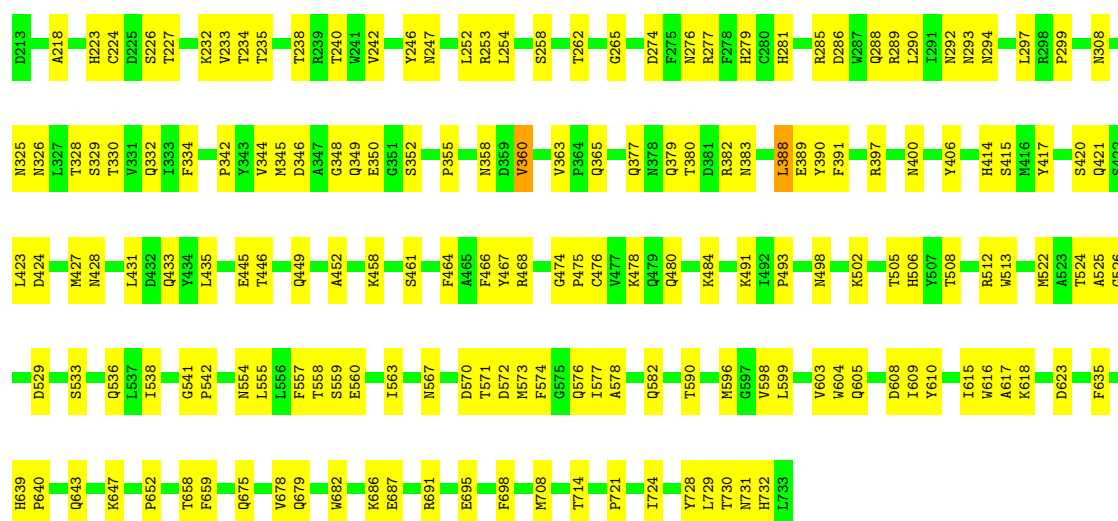
• Molecule 1: Capsid protein

Chain M: 66% 33%



• Molecule 1: Capsid protein

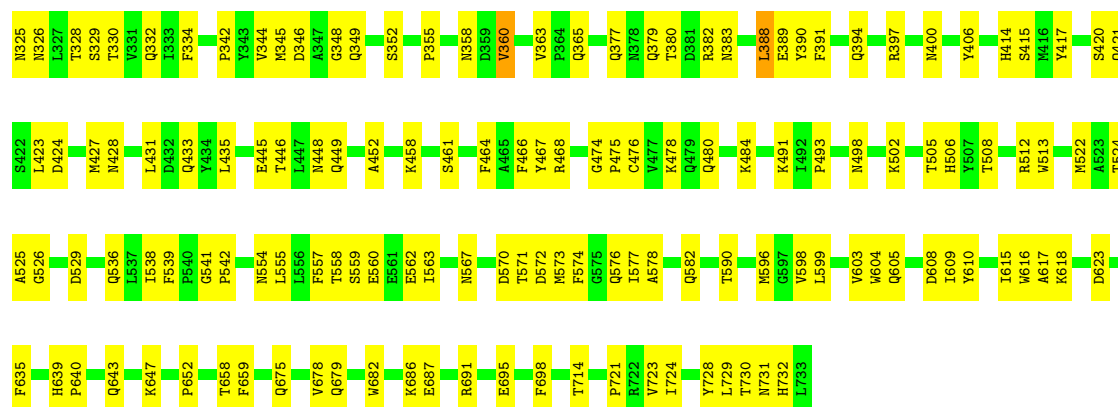
Chain N: 67% 33%



• Molecule 1: Capsid protein

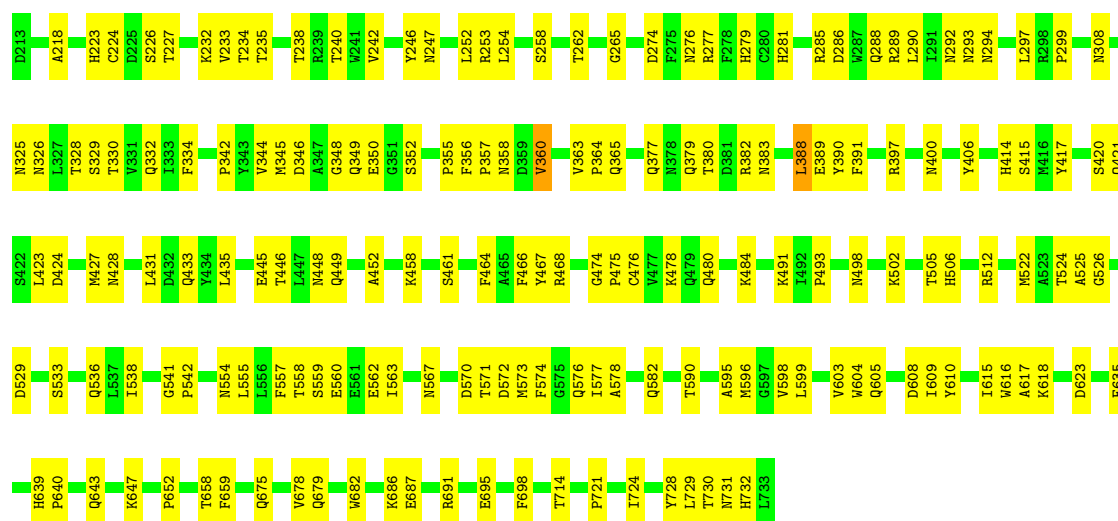
Chain O: 66% 33%





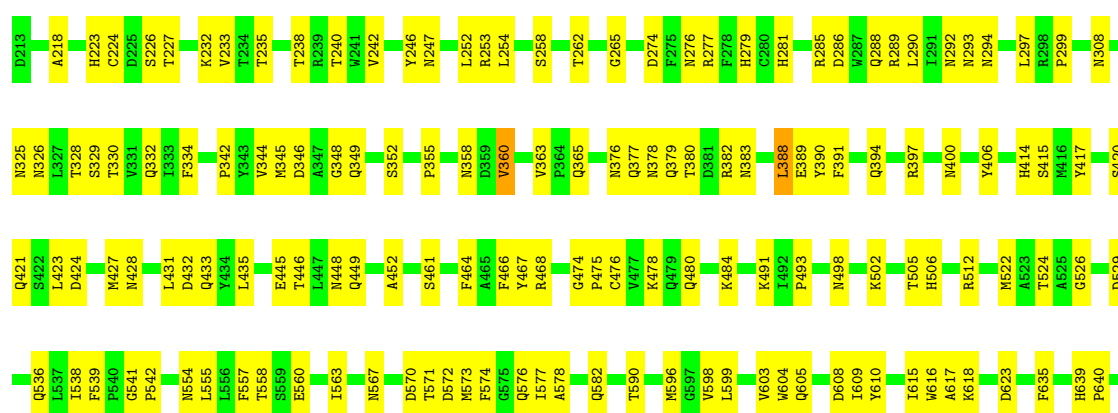
• Molecule 1: Capsid protein

Chain P: 66% 33%



• Molecule 1: Capsid protein

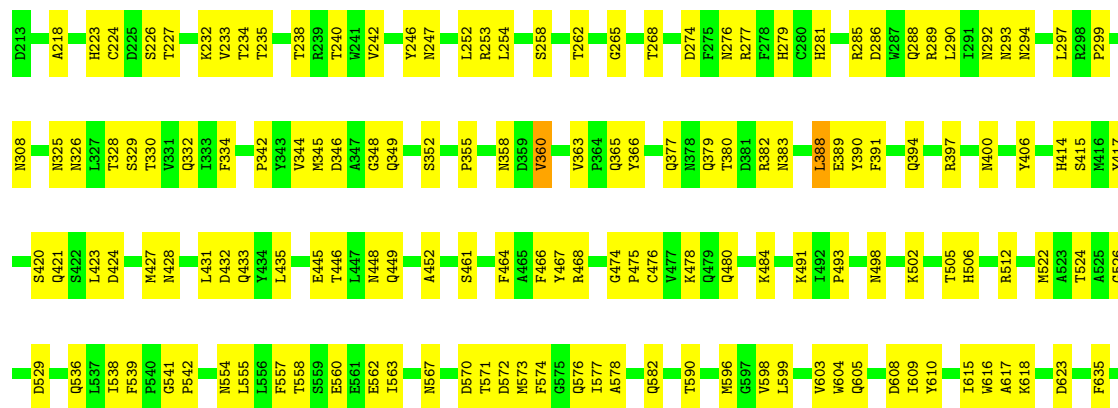
Chain Q: 67% 32%





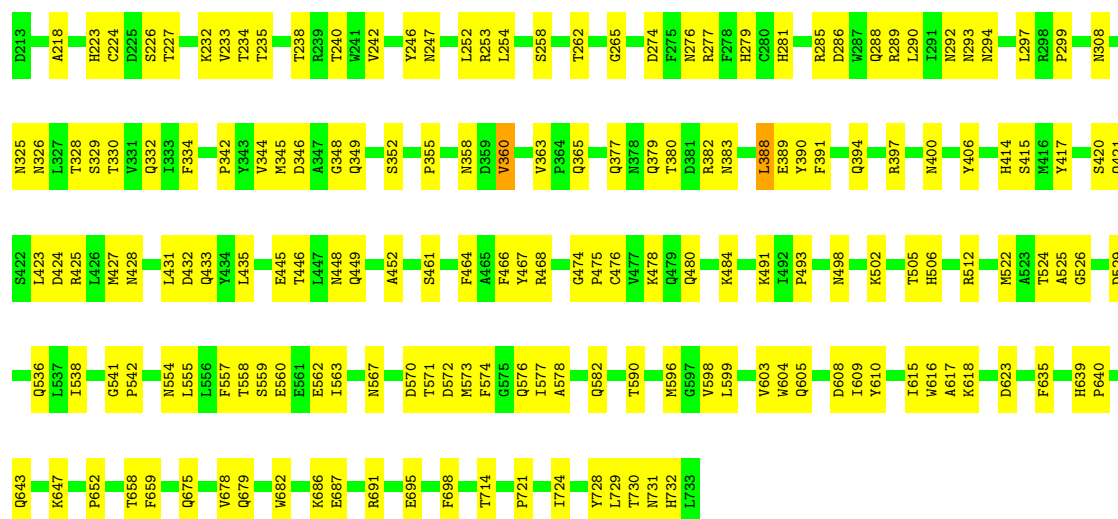
• Molecule 1: Capsid protein

Chain R: 67% 33%



• Molecule 1: Capsid protein

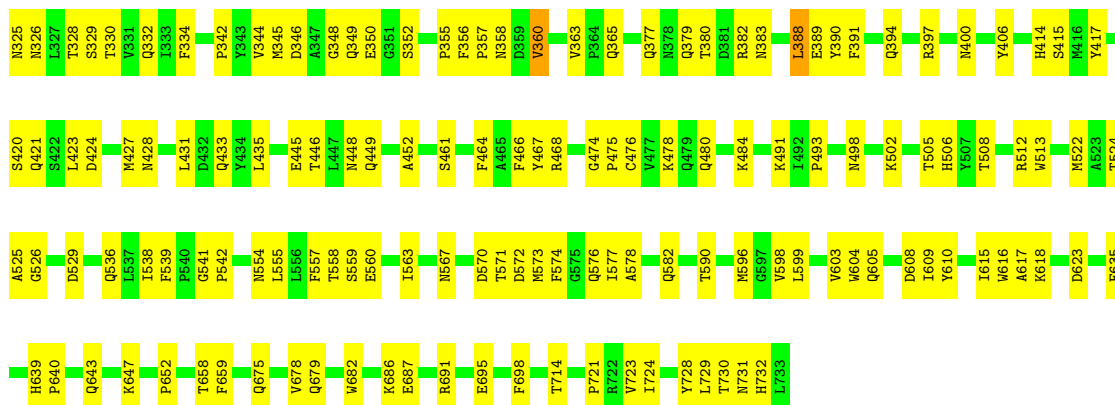
Chain S: 67% 33%



• Molecule 1: Capsid protein

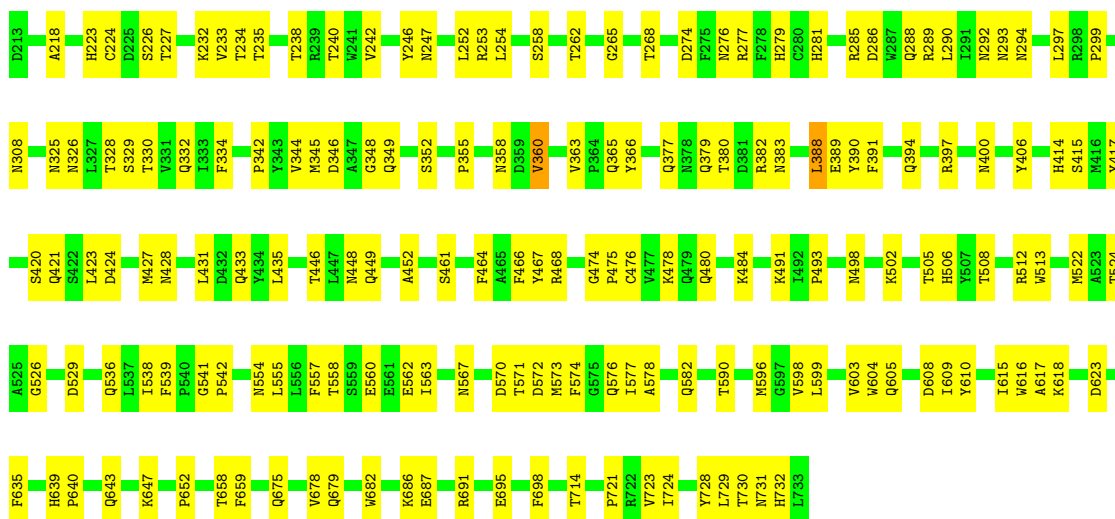
Chain T: 66% 33%





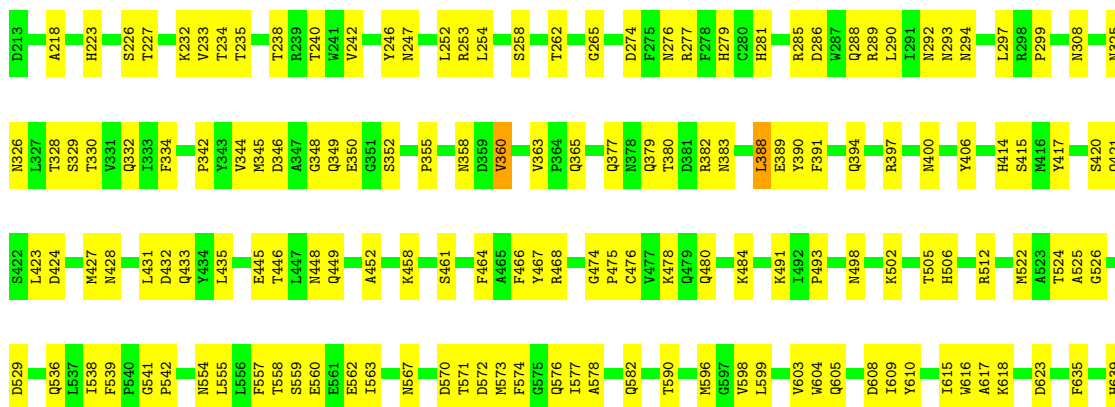
• Molecule 1: Capsid protein

Chain U: 67% 33%



• Molecule 1: Capsid protein

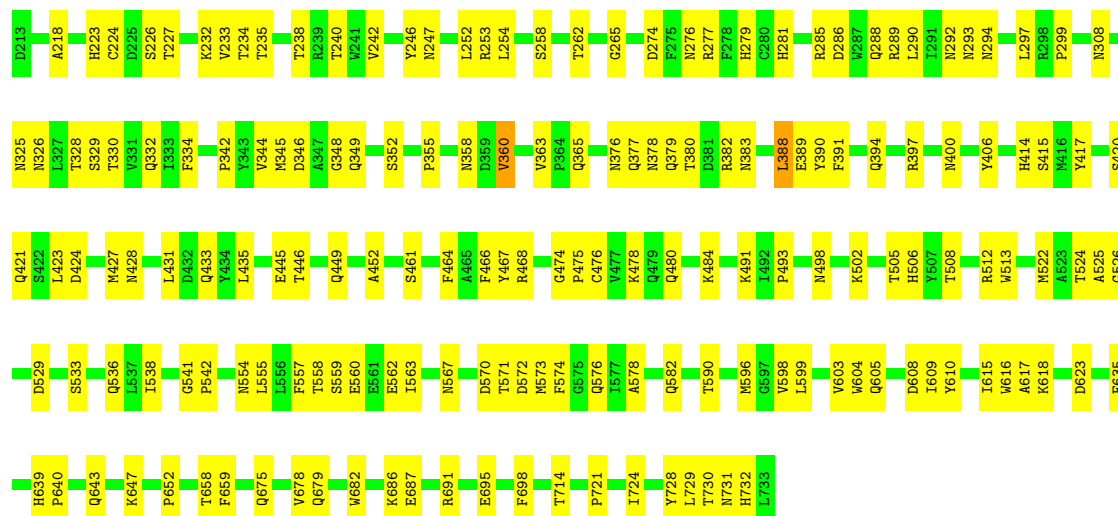
Chain V: 67% 33%





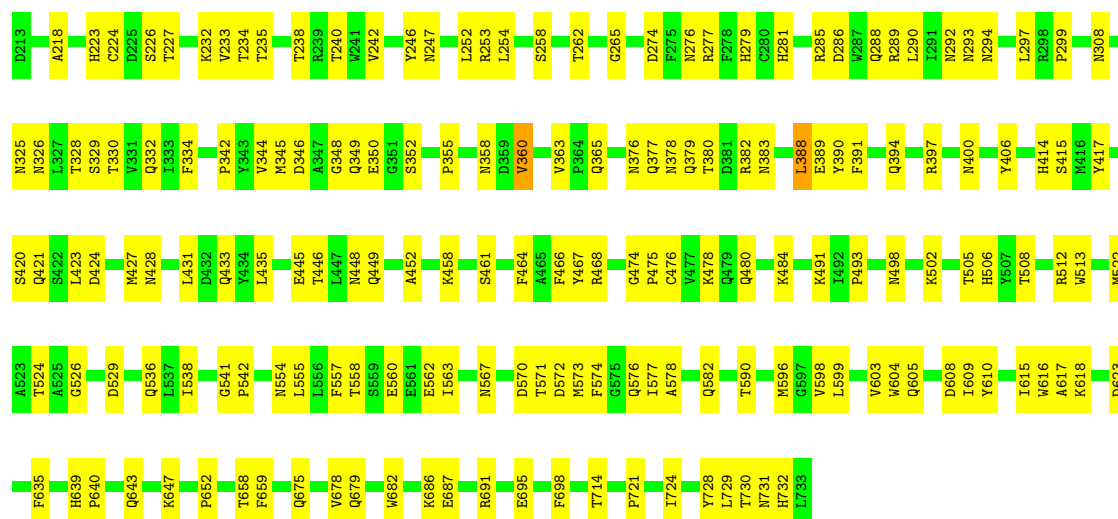
• Molecule 1: Capsid protein

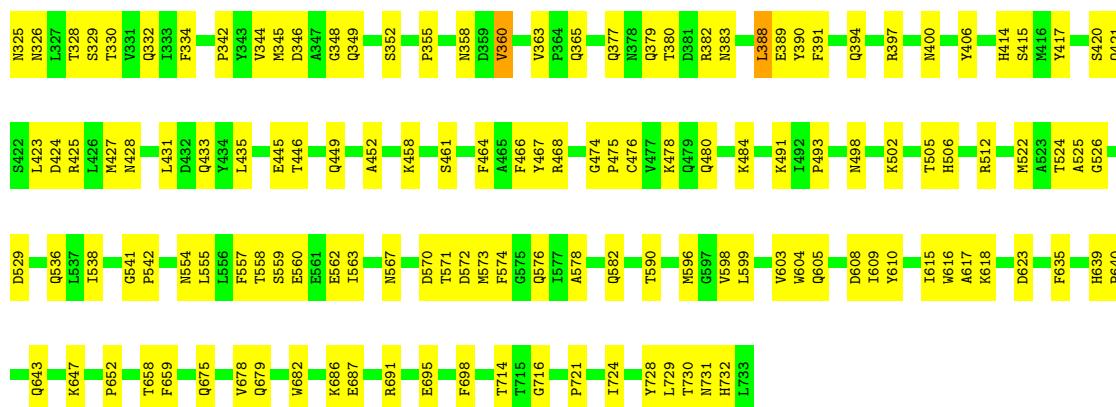
Chain W: 67% 33%



• Molecule 1: Capsid protein

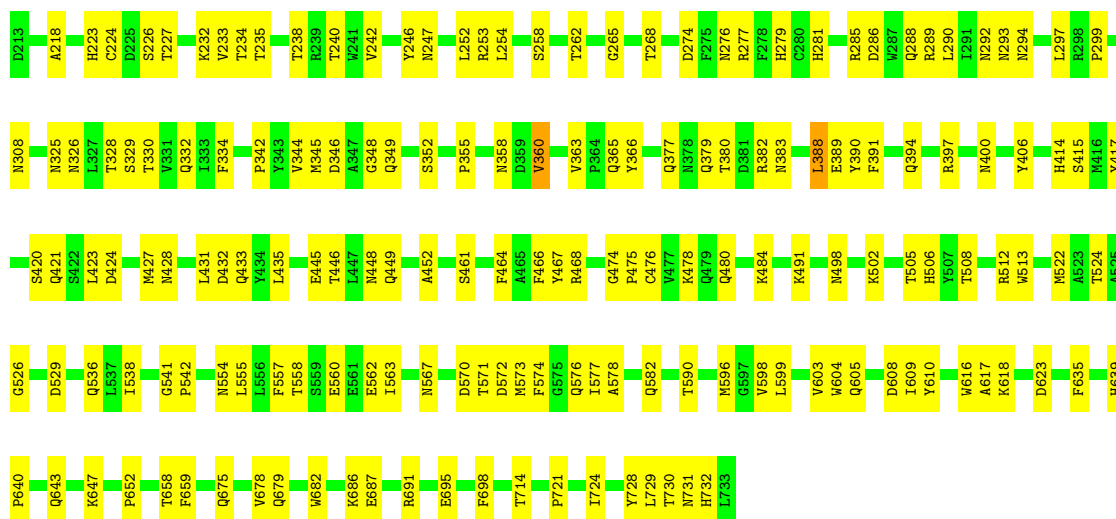
Chain X: 67% 33%





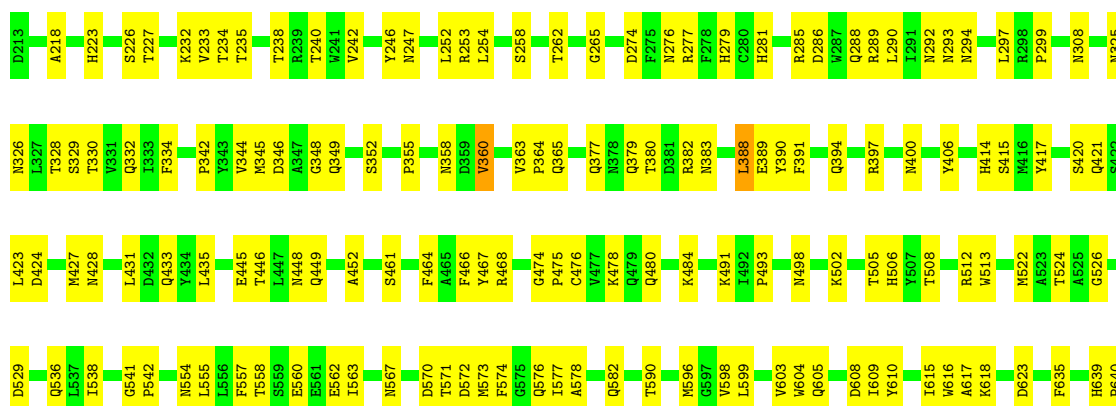
• Molecule 1: Capsid protein

Chain Z: 67% 32%



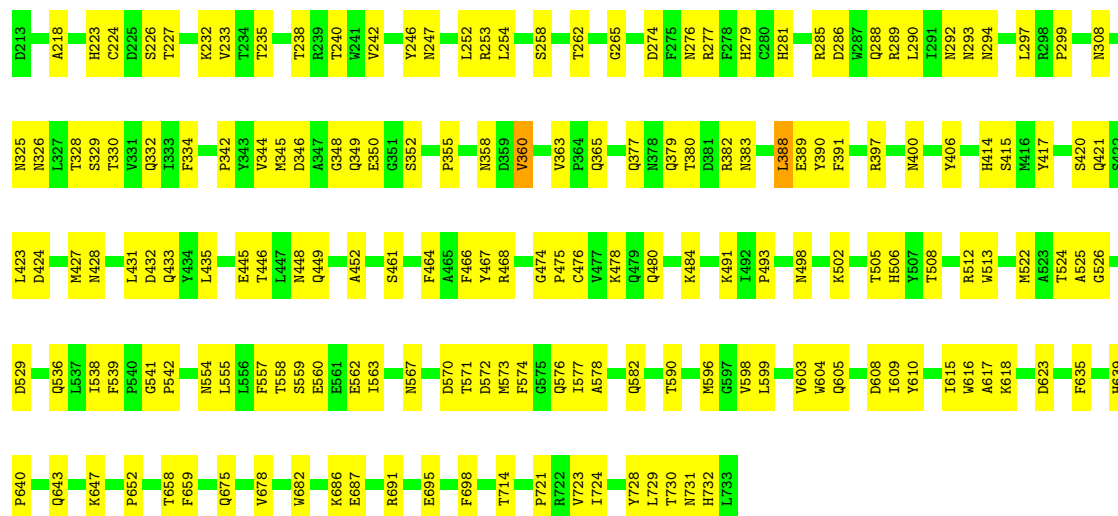
• Molecule 1: Capsid protein

Chain a: 67% 33%

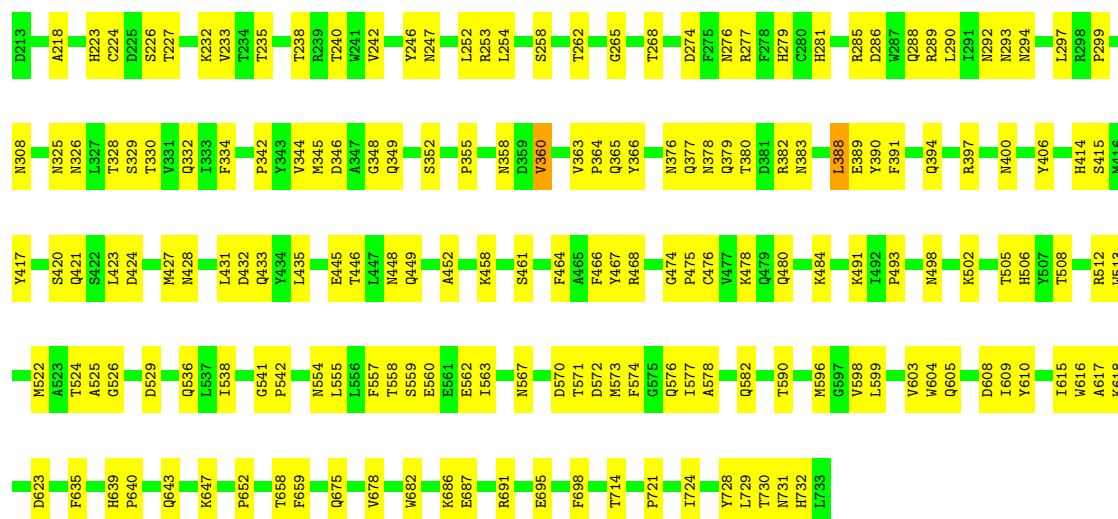




• Molecule 1: Capsid protein

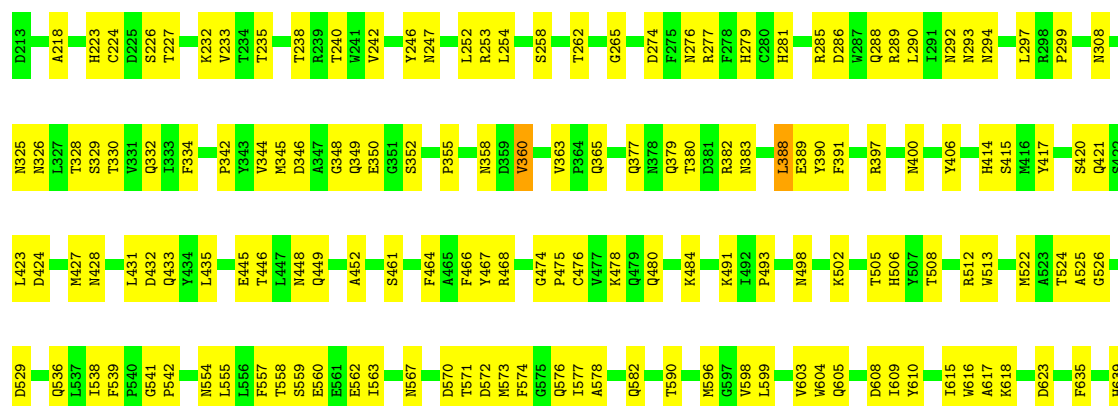


• Molecule 1: Capsid protein



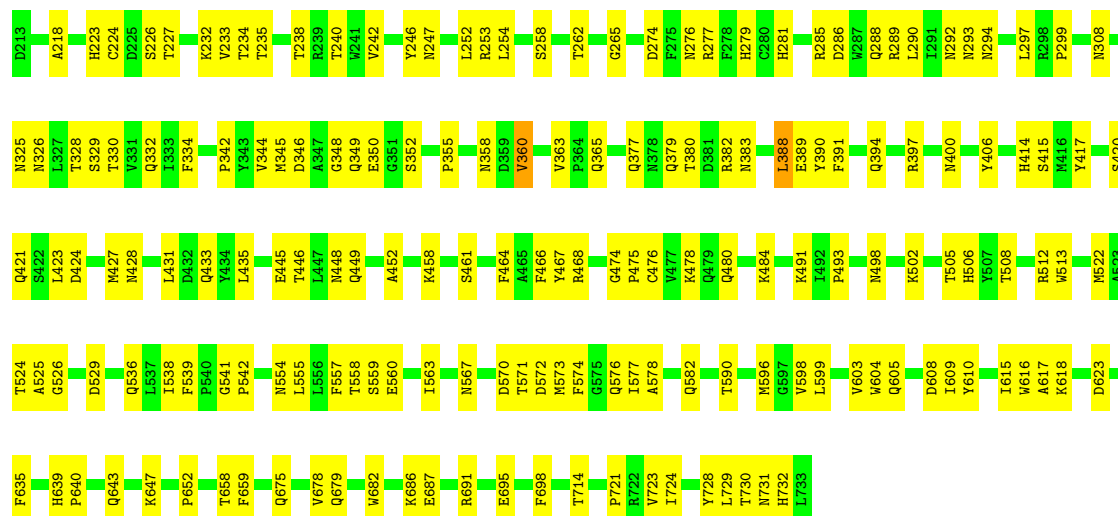
• Molecule 1: Capsid protein



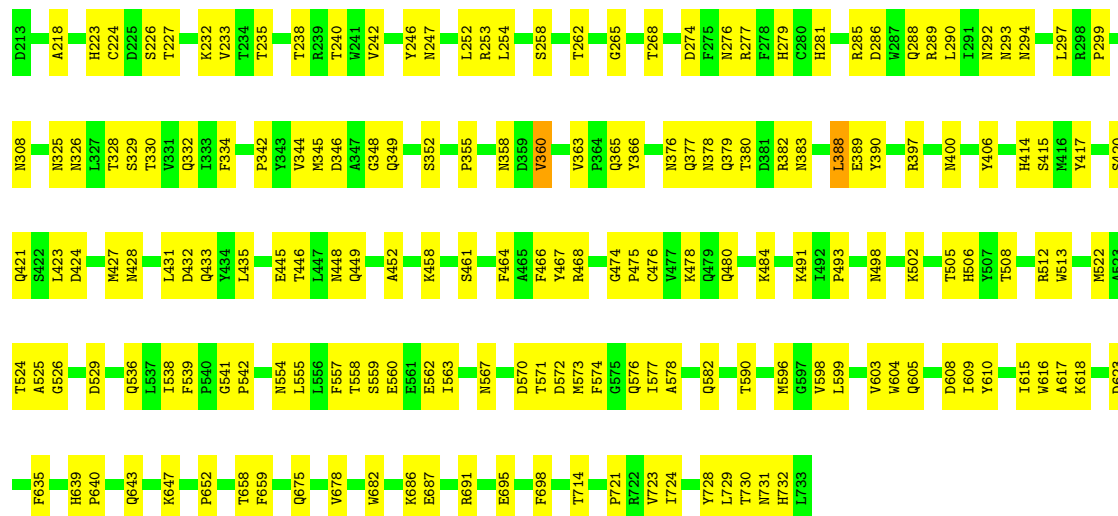




• Molecule 1: Capsid protein

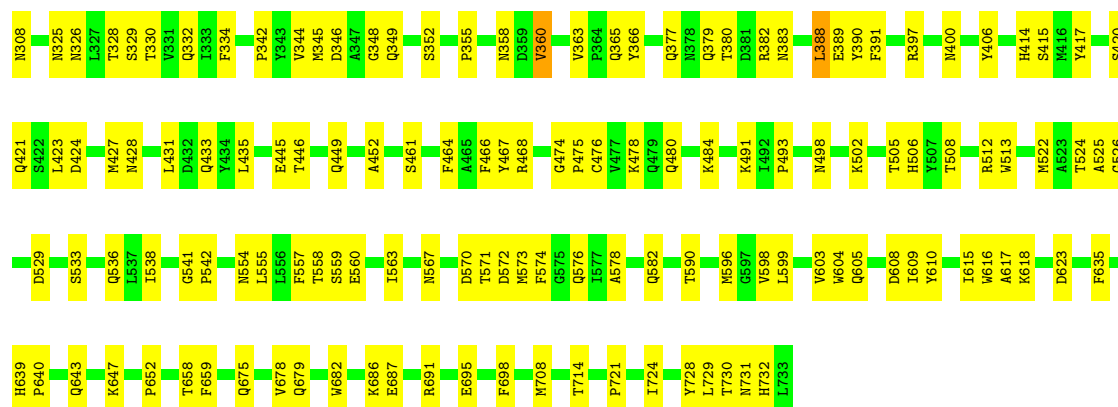


• Molecule 1: Capsid protein



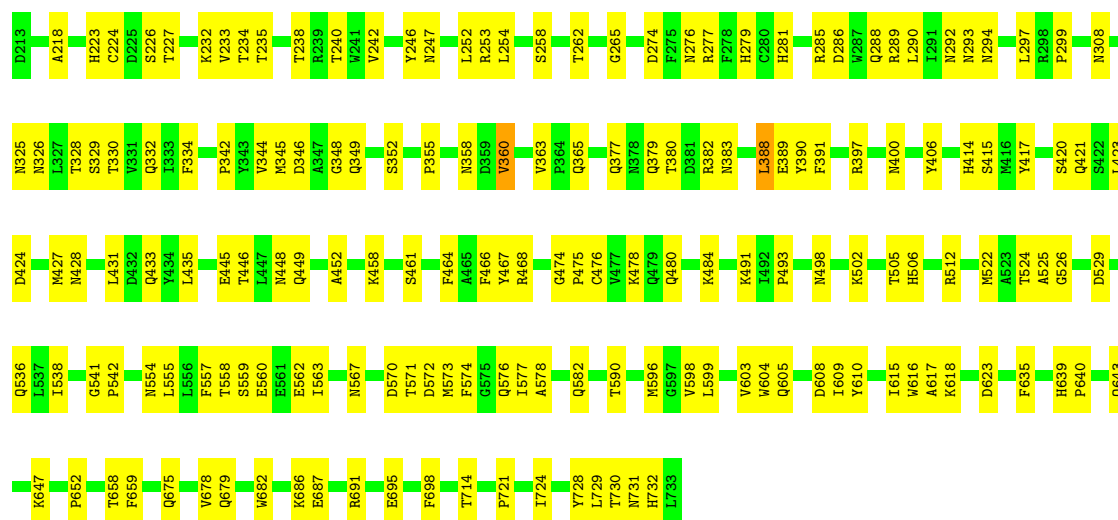
• Molecule 1: Capsid protein





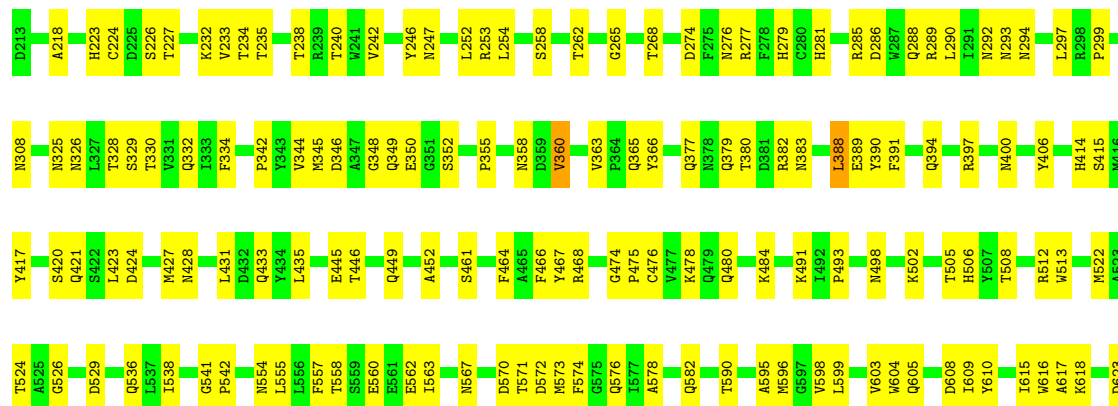
• Molecule 1: Capsid protein

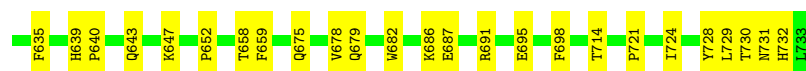
Chain j: 67% 32%



• Molecule 1: Capsid protein

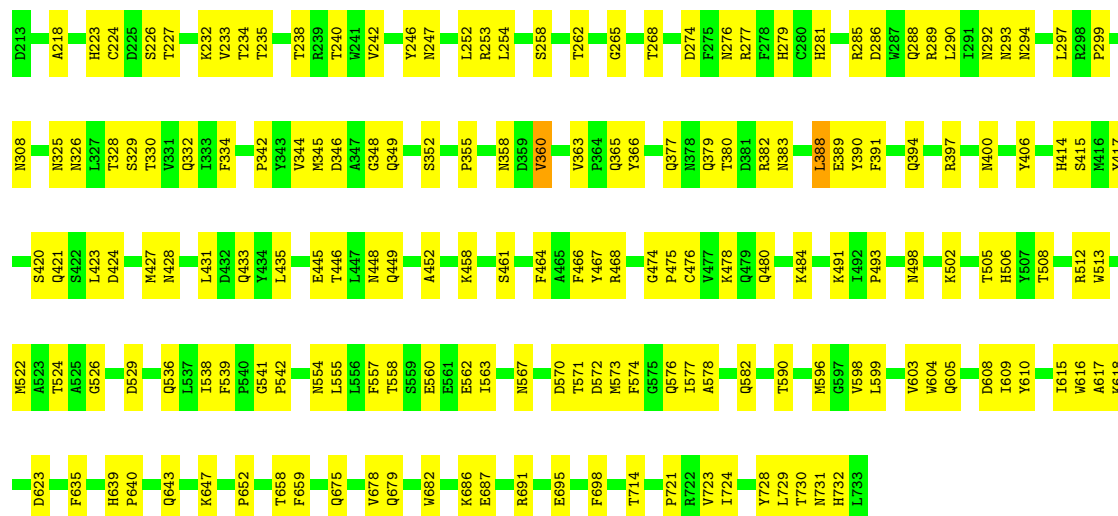
Chain k: 67% 33%





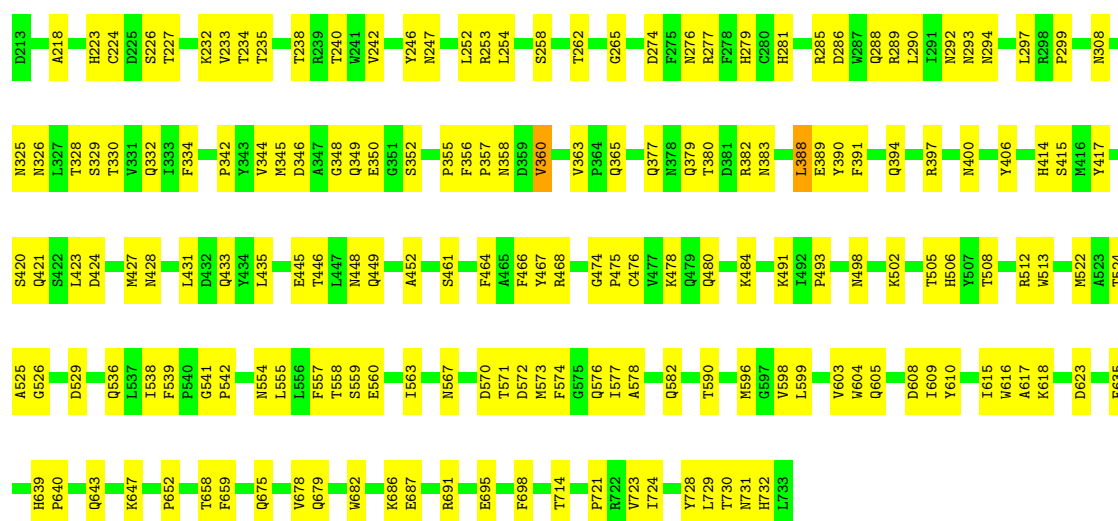
• Molecule 1: Capsid protein

Chain l: 66% 33%



• Molecule 1: Capsid protein

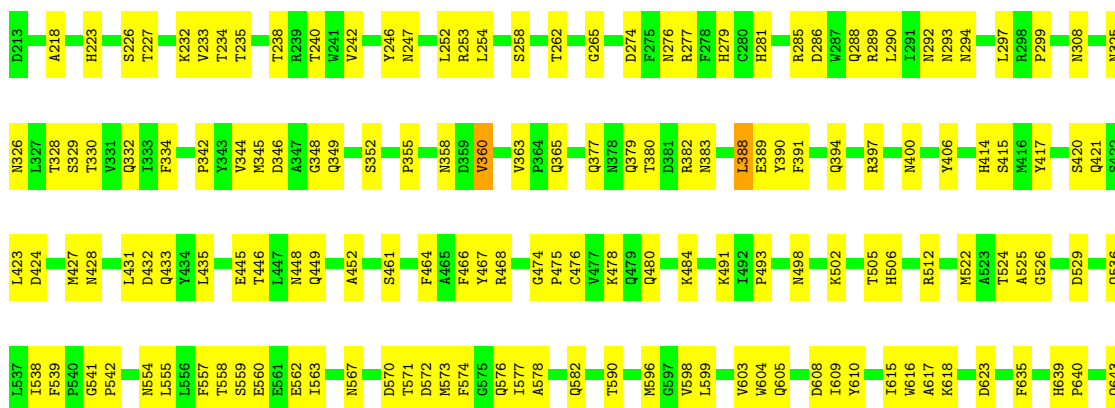
Chain m: 66% 33%



• Molecule 1: Capsid protein

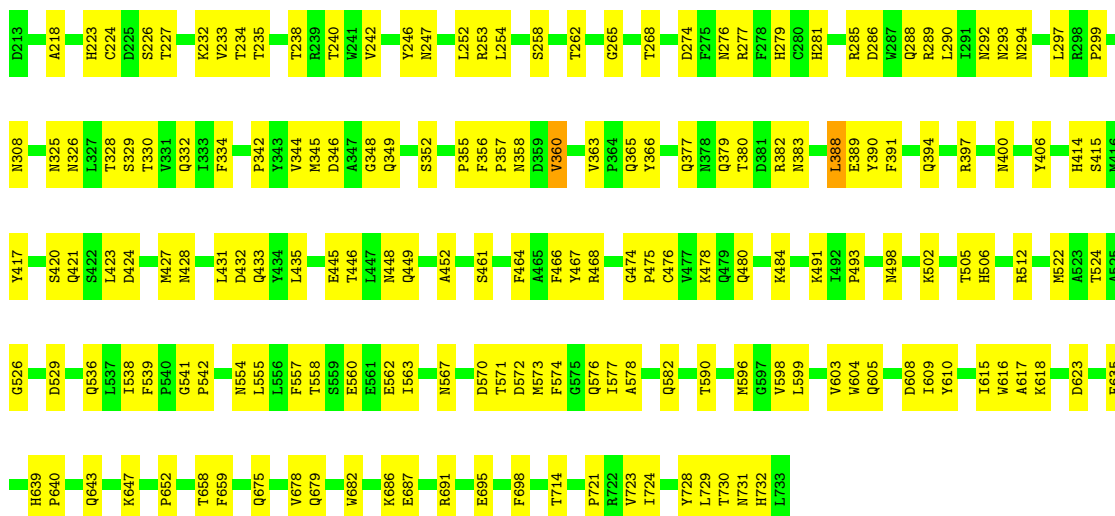
Chain n: 66% 33%



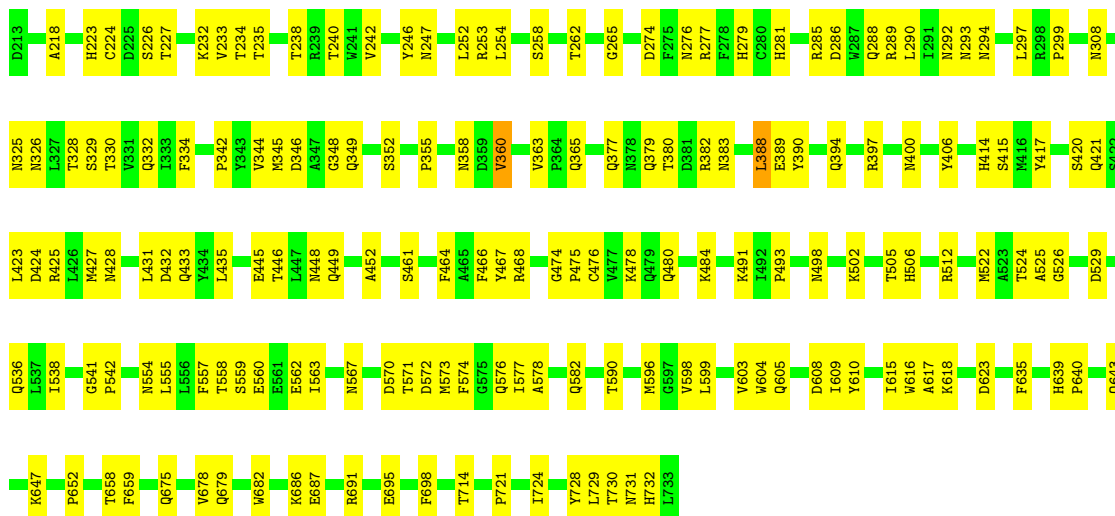




• Molecule 1: Capsid protein

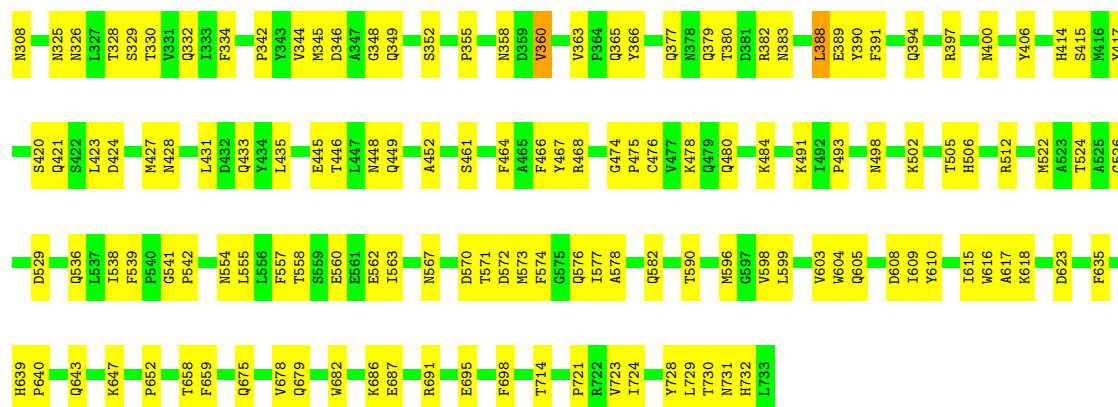


• Molecule 1: Capsid protein



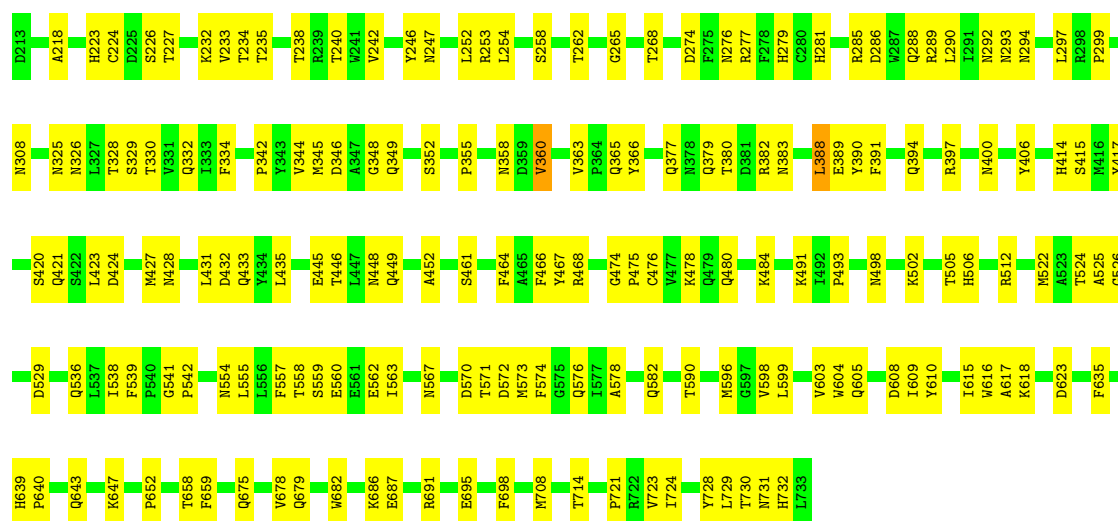
• Molecule 1: Capsid protein





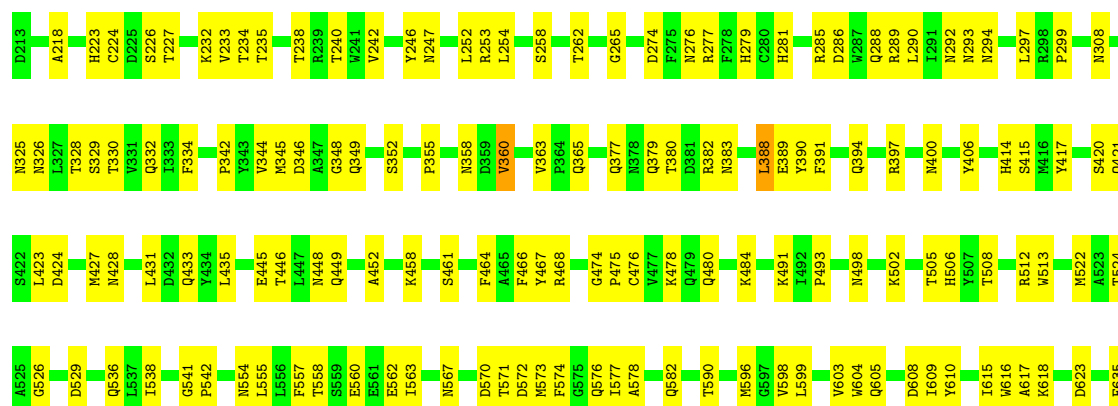
• Molecule 1: Capsid protein

Chain t: 66% 33%



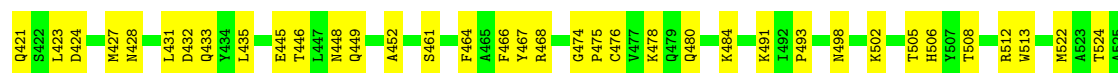
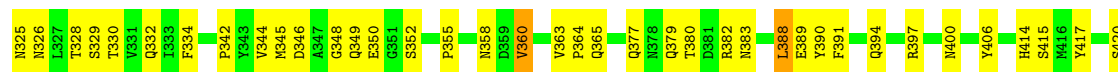
• Molecule 1: Capsid protein

Chain u: 67% 32%

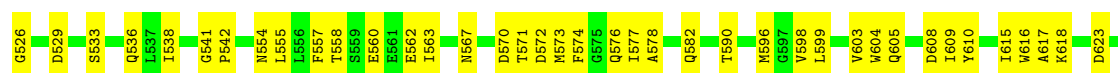
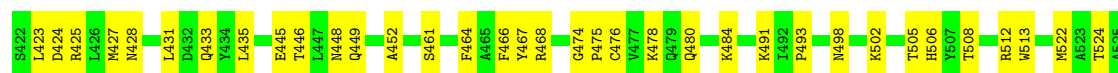




• Molecule 1: Capsid protein

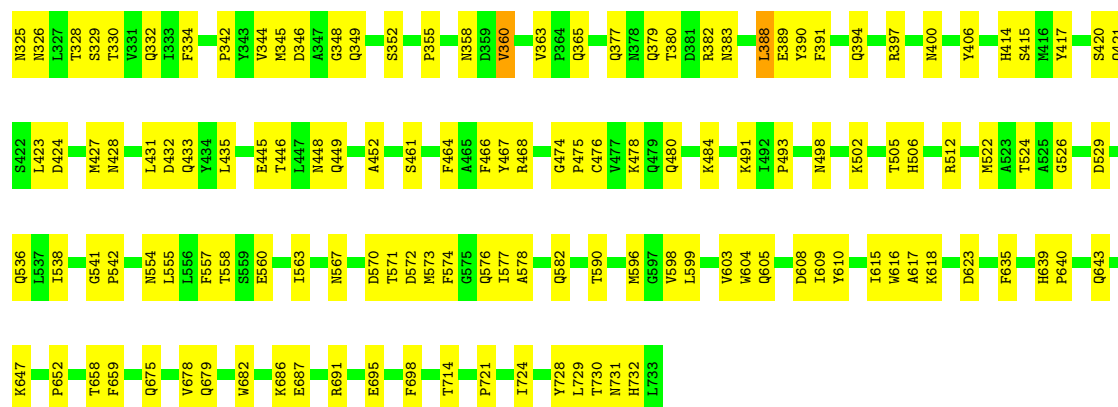


• Molecule 1: Capsid protein

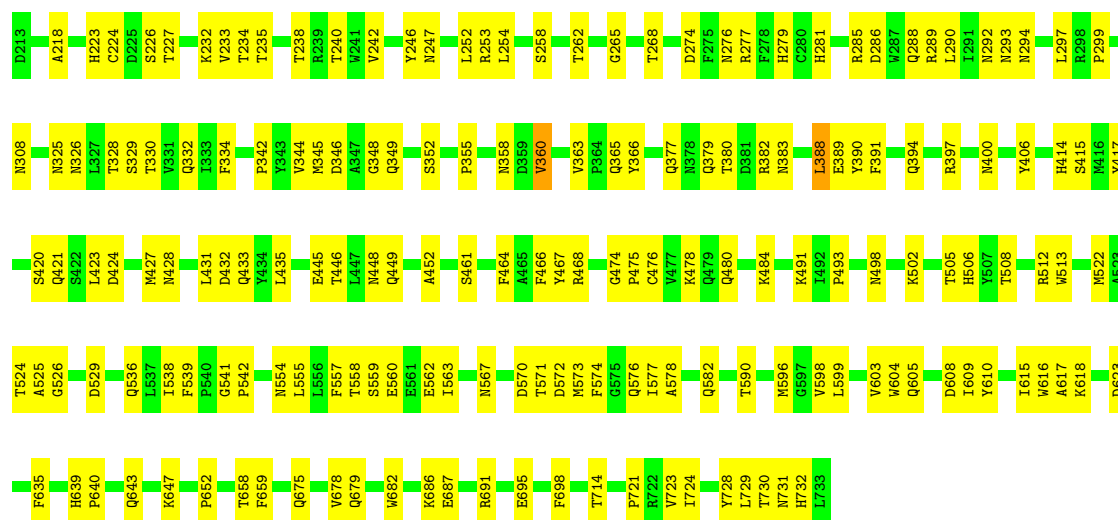


• Molecule 1: Capsid protein

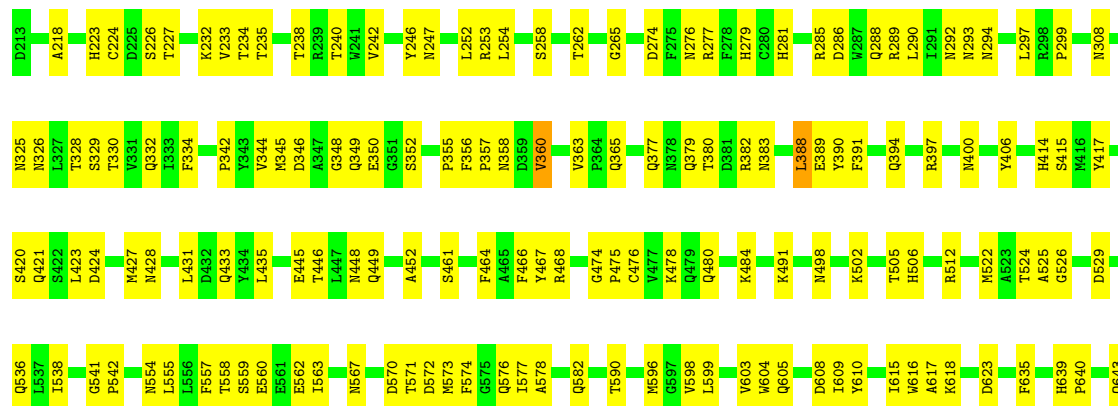




• Molecule 1: Capsid protein



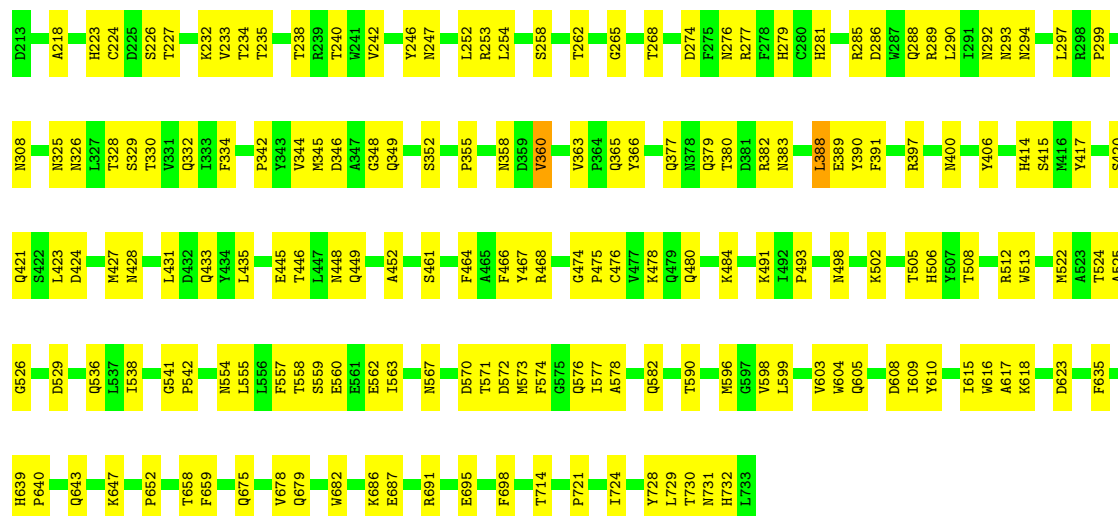
• Molecule 1: Capsid protein





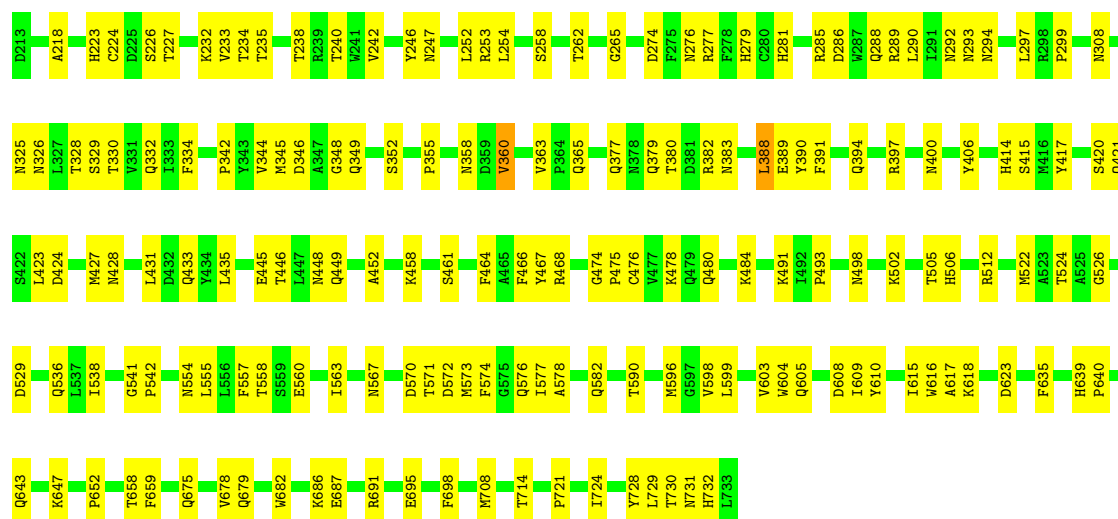
• Molecule 1: Capsid protein

Chain 1: 67% 33%



• Molecule 1: Capsid protein

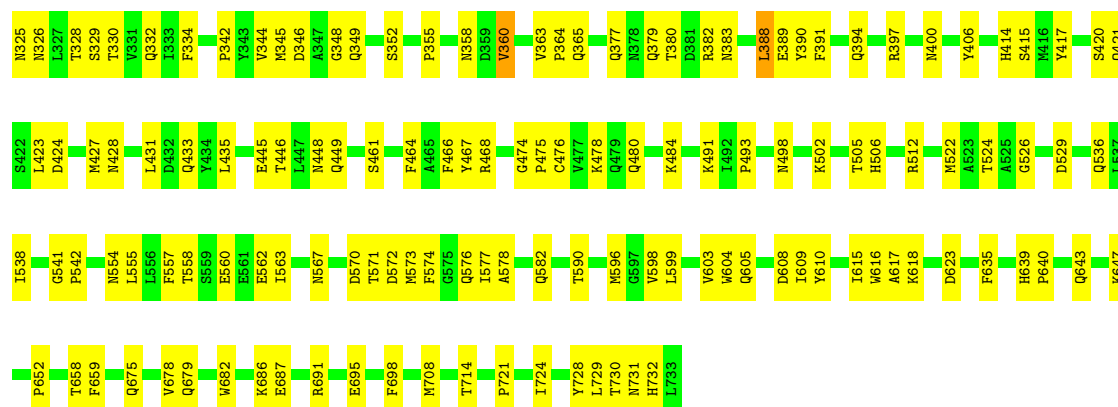
Chain 2: 68% 32%



• Molecule 1: Capsid protein

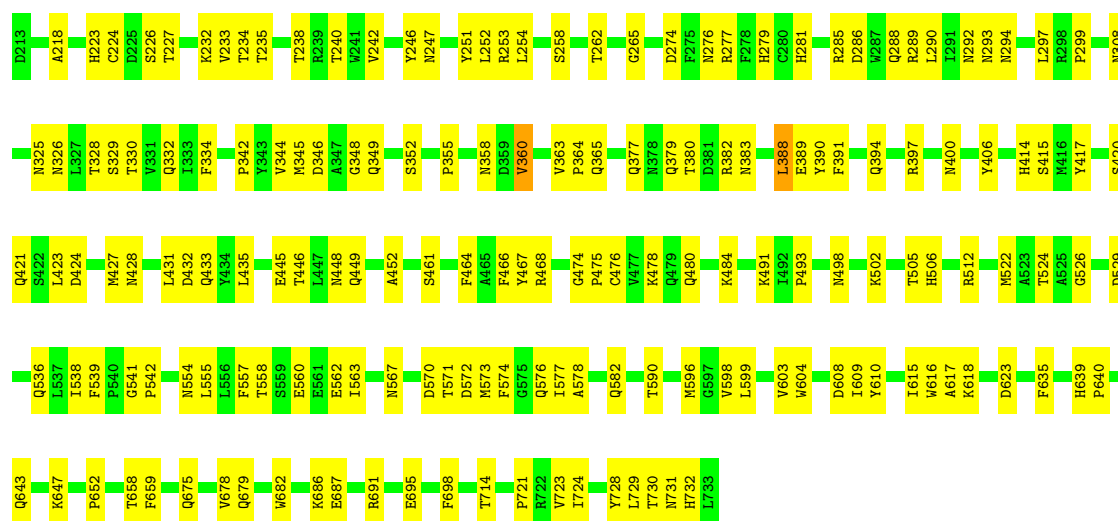
Chain 3: 68% 32%





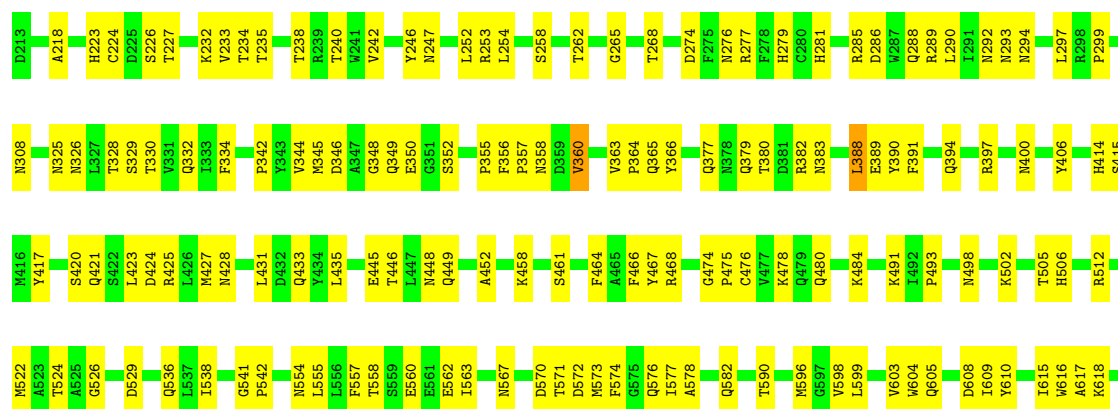
• Molecule 1: Capsid protein

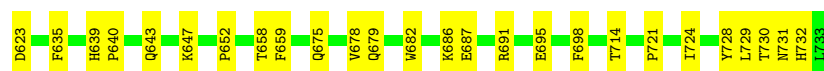
Chain 4: 67% 33%



• Molecule 1: Capsid protein

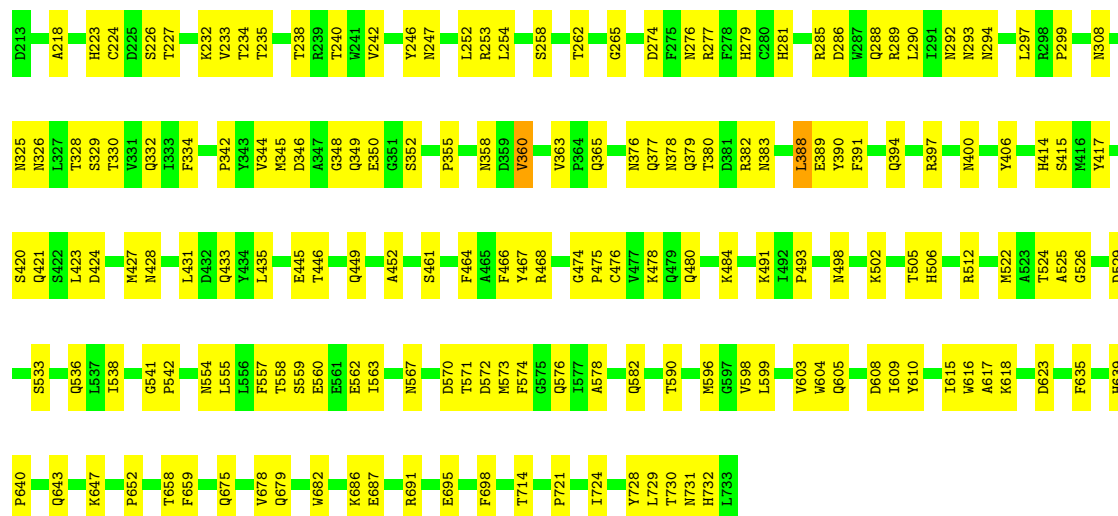
Chain 5: 66% 33%





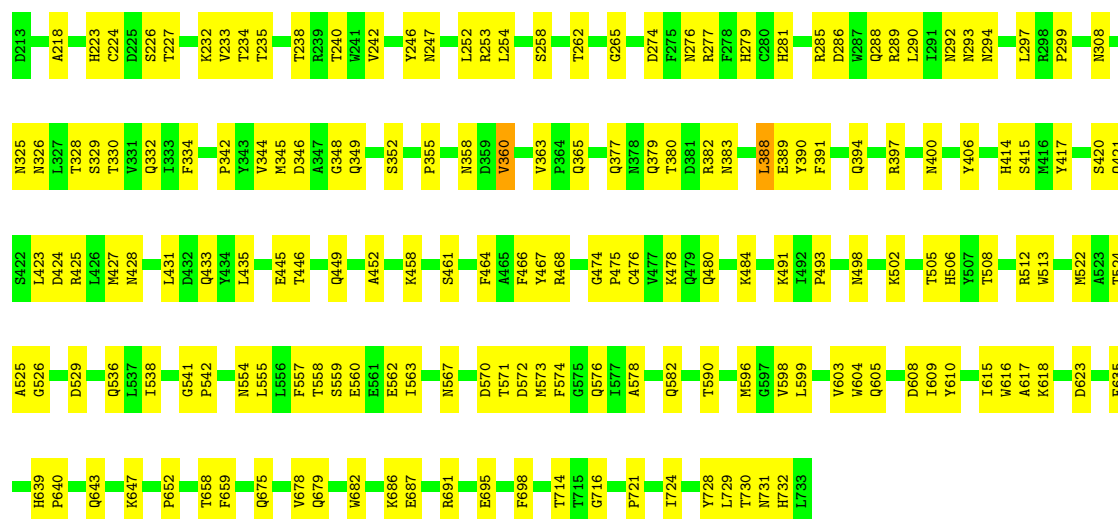
• Molecule 1: Capsid protein

Chain 6: 67% 33%



• Molecule 1: Capsid protein

Chain 7: 67% 33%



• Molecule 1: Capsid protein

Chain 8: 67% 32%



N325	N326	L327	T328	S329	T330	Y331	Q332	I333	F334	P342	Y343	V344	M345	D346	A347	G348	Q349	S352	P355	N358	D359	V360	V363	P364	Q365	Q377	N378	Q379	T380	D381	R382	N383	L388	E389	Y390	F391	Q394	R397	M400	Y406	H414	S415	M416	Y417	S420	Q421
S422	L423	D424	M427	N428	L431	D432	Q433	Y434	L435	E445	T446	L447	N448	Q449	A452	S461	F464	A465	F466	Y467	R468	G474	P475	C476	V477	K478	Q479	Q480	K484	K491	N498	K502	T505	H506	Y507	T508	R512	W513	M522	A523	T524	A525	G526	D529		
Q536	L537	I538	G541	P542	N554	L555	L556	F557	T558	S559	E560	E561	E562	I563	N567	D570	T571	D572	M573	F574	G575	Q576	I577	A578	Q582	T590	M596	G597	V598	L599	V603	W604	Q605	D608	I609	Y610	I615	W616	A617	K618	D623	F635	H639	P640		
Q643	K647	P652	T658	F659	Q675	V678	Q679	W682	K686	E687	R691	E695	F698	T714	P721	I724	Y728	L729	T730	N731	H732	L733																								

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	10429	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	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	18.201	Depositor
Minimum map value	-9.648	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	468.05002, 468.05002, 468.05002	wwPDB
Map dimensions	550, 550, 550	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.851, 0.851, 0.851	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	0.46	0/4251	0.51	0/5806
1	2	0.46	0/4251	0.51	0/5806
1	3	0.46	0/4251	0.51	0/5806
1	4	0.46	0/4251	0.51	0/5806
1	5	0.46	0/4251	0.51	0/5806
1	6	0.46	0/4251	0.51	0/5806
1	7	0.46	0/4251	0.51	0/5806
1	8	0.46	0/4251	0.51	0/5806
1	A	0.46	0/4251	0.51	0/5806
1	B	0.46	0/4251	0.51	0/5806
1	C	0.46	0/4251	0.51	0/5806
1	D	0.46	0/4251	0.51	0/5806
1	E	0.46	0/4251	0.51	0/5806
1	F	0.46	0/4251	0.51	0/5806
1	G	0.46	0/4251	0.51	0/5806
1	H	0.46	0/4251	0.51	0/5806
1	I	0.46	0/4251	0.51	0/5806
1	J	0.46	0/4251	0.51	0/5806
1	K	0.46	0/4251	0.51	0/5806
1	L	0.46	0/4251	0.51	0/5806
1	M	0.46	0/4251	0.51	0/5806
1	N	0.46	0/4251	0.51	0/5806
1	O	0.46	0/4251	0.51	0/5806
1	P	0.46	0/4251	0.51	0/5806
1	Q	0.46	0/4251	0.51	0/5806
1	R	0.46	0/4251	0.51	0/5806
1	S	0.46	0/4251	0.51	0/5806
1	T	0.46	0/4251	0.51	0/5806
1	U	0.46	0/4251	0.51	0/5806
1	V	0.46	0/4251	0.51	0/5806
1	W	0.46	0/4251	0.51	0/5806
1	X	0.46	0/4251	0.51	0/5806

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.46	0/4251	0.51	0/5806
1	Z	0.46	0/4251	0.51	0/5806
1	a	0.46	0/4251	0.51	0/5806
1	b	0.46	0/4251	0.51	0/5806
1	c	0.46	0/4251	0.51	0/5806
1	d	0.46	0/4251	0.51	0/5806
1	e	0.46	0/4251	0.51	0/5806
1	f	0.46	0/4251	0.51	0/5806
1	g	0.46	0/4251	0.51	0/5806
1	h	0.46	0/4251	0.51	0/5806
1	i	0.46	0/4251	0.51	0/5806
1	j	0.46	0/4251	0.51	0/5806
1	k	0.46	0/4251	0.51	0/5806
1	l	0.46	0/4251	0.51	0/5806
1	m	0.46	0/4251	0.51	0/5806
1	n	0.46	0/4251	0.51	0/5806
1	o	0.46	0/4251	0.51	0/5806
1	p	0.46	0/4251	0.51	0/5806
1	q	0.46	0/4251	0.51	0/5806
1	r	0.46	0/4251	0.51	0/5806
1	s	0.46	0/4251	0.51	0/5806
1	t	0.46	0/4251	0.51	0/5806
1	u	0.46	0/4251	0.51	0/5806
1	v	0.46	0/4251	0.51	0/5806
1	w	0.46	0/4251	0.51	0/5806
1	x	0.46	0/4251	0.51	0/5806
1	y	0.46	0/4251	0.51	0/5806
1	z	0.46	0/4251	0.51	0/5806
All	All	0.46	0/255060	0.51	0/348360

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	4123	0	3886	152	0
1	2	4123	0	3886	148	0
1	3	4123	0	3886	148	0
1	4	4123	0	3886	151	0
1	5	4123	0	3886	153	0
1	6	4123	0	3886	152	0
1	7	4123	0	3886	147	0
1	8	4123	0	3886	150	0
1	A	4123	0	3886	151	0
1	B	4123	0	3886	153	0
1	C	4123	0	3886	156	0
1	D	4123	0	3886	152	0
1	E	4123	0	3886	150	0
1	F	4123	0	3886	152	0
1	G	4123	0	3886	155	0
1	H	4123	0	3886	150	0
1	I	4123	0	3886	150	0
1	J	4123	0	3886	150	0
1	K	4123	0	3886	152	0
1	L	4123	0	3886	152	0
1	M	4123	0	3886	154	0
1	N	4123	0	3886	153	0
1	O	4123	0	3886	151	0
1	P	4123	0	3886	153	0
1	Q	4123	0	3886	151	0
1	R	4123	0	3886	152	0
1	S	4123	0	3886	153	0
1	T	4123	0	3886	155	0
1	U	4123	0	3886	152	0
1	V	4123	0	3886	152	0
1	W	4123	0	3886	151	0
1	X	4123	0	3886	154	0
1	Y	4123	0	3886	146	0
1	Z	4123	0	3886	150	0
1	a	4123	0	3886	151	0
1	b	4123	0	3886	152	0
1	c	4123	0	3886	157	0
1	d	4123	0	3886	150	0
1	e	4123	0	3886	157	0
1	f	4123	0	3886	152	0
1	g	4123	0	3886	156	0
1	h	4123	0	3886	155	0
1	i	4123	0	3886	151	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4123	0	3886	149	0
1	k	4123	0	3886	153	0
1	l	4123	0	3886	152	0
1	m	4123	0	3886	155	0
1	n	4123	0	3886	154	0
1	o	4123	0	3886	154	0
1	p	4123	0	3886	150	0
1	q	4123	0	3886	153	0
1	r	4123	0	3886	151	0
1	s	4123	0	3886	151	0
1	t	4123	0	3886	154	0
1	u	4123	0	3886	151	0
1	v	4123	0	3886	151	0
1	w	4123	0	3886	151	0
1	x	4123	0	3886	150	0
1	y	4123	0	3886	153	0
1	z	4123	0	3886	152	0
2	1	22	0	12	0	0
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

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
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	248700	0	233880	7474	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 15.

All (7474) 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:285:ARG:NH2	1:O:687:GLU:OE1	1.75	1.19
1:Y:285:ARG:NH2	1:Z:687:GLU:OE1	1.75	1.19
1:i:285:ARG:NH2	1:l:687:GLU:OE1	1.76	1.19
1:j:285:ARG:NH2	1:w:687:GLU:OE1	1.75	1.19
1:7:285:ARG:NH2	1:8:687:GLU:OE1	1.75	1.19
1:J:285:ARG:NH2	1:K:687:GLU:OE1	1.78	1.17
1:C:687:GLU:OE1	1:L:285:ARG:NH2	1.78	1.17
1:W:687:GLU:OE1	1:X:285:ARG:NH2	1.78	1.17
1:a:285:ARG:NH2	1:3:687:GLU:OE1	1.78	1.17
1:g:687:GLU:OE1	1:z:285:ARG:NH2	1.78	1.17
1:o:285:ARG:NH2	1:6:687:GLU:OE1	1.78	1.17
1:2:285:ARG:NH2	1:4:687:GLU:OE1	1.78	1.17
1:a:687:GLU:OE1	1:3:285:ARG:NH2	1.78	1.16
1:E:285:ARG:NH2	1:P:687:GLU:OE1	1.78	1.16
1:U:687:GLU:OE1	1:V:285:ARG:NH2	1.78	1.16
1:b:285:ARG:NH2	1:c:687:GLU:OE1	1.78	1.16
1:e:687:GLU:OE1	1:f:285:ARG:NH2	1.78	1.16
1:p:285:ARG:NH2	1:s:687:GLU:OE1	1.78	1.16
1:p:687:GLU:OE1	1:s:285:ARG:NH2	1.78	1.16
1:u:687:GLU:OE1	1:1:285:ARG:NH2	1.78	1.16
1:B:285:ARG:NH2	1:I:687:GLU:OE1	1.78	1.16
1:S:285:ARG:NH2	1:T:687:GLU:OE1	1.78	1.16
1:U:285:ARG:NH2	1:V:687:GLU:OE1	1.78	1.16
1:C:285:ARG:NH2	1:L:687:GLU:OE1	1.78	1.16
1:W:285:ARG:NH2	1:X:687:GLU:OE1	1.78	1.16
1:g:285:ARG:NH2	1:z:687:GLU:OE1	1.78	1.16
1:m:687:GLU:OE1	1:r:285:ARG:NH2	1.78	1.16
1:J:687:GLU:OE1	1:K:285:ARG:NH2	1.79	1.16
1:o:687:GLU:OE1	1:6:285:ARG:NH2	1.78	1.16
1:G:687:GLU:OE1	1:H:285:ARG:NH2	1.79	1.15
1:2:687:GLU:OE1	1:4:285:ARG:NH2	1.79	1.15
1:h:285:ARG:NH2	1:k:687:GLU:OE1	1.78	1.15
1:t:285:ARG:NH2	1:5:687:GLU:OE1	1.78	1.15
1:t:687:GLU:OE1	1:5:285:ARG:NH2	1.79	1.15
1:A:285:ARG:NH2	1:F:687:GLU:OE1	1.78	1.15
1:D:285:ARG:NH2	1:M:687:GLU:OE1	1.78	1.15
1:G:285:ARG:NH2	1:H:687:GLU:OE1	1.78	1.15
1:b:687:GLU:OE1	1:c:285:ARG:NH2	1.78	1.15
1:v:285:ARG:NH2	1:y:687:GLU:OE1	1.78	1.15
1:D:687:GLU:OE1	1:M:285:ARG:NH2	1.78	1.15
1:E:687:GLU:OE1	1:P:285:ARG:NH2	1.79	1.15
1:e:285:ARG:NH2	1:f:687:GLU:OE1	1.78	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:687:GLU:OE1	1:k:285:ARG:NH2	1.79	1.15
1:i:687:GLU:OE1	1:l:285:ARG:NH2	1.80	1.15
1:A:687:GLU:OE1	1:F:285:ARG:NH2	1.78	1.15
1:B:687:GLU:OE1	1:I:285:ARG:NH2	1.78	1.15
1:N:687:GLU:OE1	1:O:285:ARG:NH2	1.80	1.15
1:u:285:ARG:NH2	1:1:687:GLU:OE1	1.78	1.15
1:7:687:GLU:OE1	1:8:285:ARG:NH2	1.80	1.15
1:Q:687:GLU:OE1	1:R:285:ARG:NH2	1.78	1.14
1:Y:687:GLU:OE1	1:Z:285:ARG:NH2	1.81	1.14
1:d:285:ARG:NH2	1:n:687:GLU:OE1	1.78	1.14
1:q:285:ARG:NH2	1:x:687:GLU:OE1	1.78	1.14
1:d:687:GLU:OE1	1:n:285:ARG:NH2	1.78	1.14
1:v:687:GLU:OE1	1:y:285:ARG:NH2	1.78	1.14
1:j:687:GLU:OE1	1:w:285:ARG:NH2	1.81	1.13
1:q:687:GLU:OE1	1:x:285:ARG:NH2	1.78	1.13
1:Q:285:ARG:NH2	1:R:687:GLU:OE1	1.78	1.13
1:S:687:GLU:OE1	1:T:285:ARG:NH2	1.79	1.12
1:m:285:ARG:NH2	1:r:687:GLU:OE1	1.79	1.12
1:K:389:GLU:OE1	1:7:358:ASN:HA	1.62	1.00
1:Y:358:ASN:HA	1:4:389:GLU:OE1	1.61	1.00
1:j:358:ASN:HA	1:x:389:GLU:OE1	1.62	1.00
1:B:334:PHE:HZ	1:B:388:LEU:CD2	1.75	1.00
1:b:334:PHE:HZ	1:b:388:LEU:CD2	1.75	1.00
1:1:334:PHE:HZ	1:1:388:LEU:CD2	1.75	1.00
1:8:334:PHE:HZ	1:8:388:LEU:CD2	1.75	1.00
1:P:334:PHE:HZ	1:P:388:LEU:CD2	1.75	0.99
1:Z:334:PHE:HZ	1:Z:388:LEU:CD2	1.75	0.99
1:h:358:ASN:HA	1:i:389:GLU:OE1	1.62	0.99
1:j:334:PHE:HZ	1:j:388:LEU:CD2	1.75	0.99
1:M:358:ASN:HA	1:N:389:GLU:OE1	1.62	0.99
1:f:334:PHE:HZ	1:f:388:LEU:CD2	1.75	0.99
1:C:389:GLU:OE1	1:D:358:ASN:HA	1.63	0.99
1:W:334:PHE:HZ	1:W:388:LEU:CD2	1.75	0.99
1:X:334:PHE:HZ	1:X:388:LEU:CD2	1.75	0.99
1:g:389:GLU:OE1	1:k:358:ASN:HA	1.63	0.99
1:o:334:PHE:HZ	1:o:388:LEU:CD2	1.75	0.99
1:C:334:PHE:HZ	1:C:388:LEU:CD2	1.75	0.99
1:F:334:PHE:HZ	1:F:388:LEU:CD2	1.75	0.99
1:p:389:GLU:OE1	1:6:358:ASN:HA	1.63	0.99
1:6:334:PHE:HZ	1:6:388:LEU:CD2	1.75	0.99
1:G:334:PHE:HZ	1:G:388:LEU:CD2	1.75	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:334:PHE:HZ	1:R:388:LEU:CD2	1.75	0.99
1:V:389:GLU:OE1	1:W:358:ASN:HA	1.63	0.99
1:g:334:PHE:HZ	1:g:388:LEU:CD2	1.75	0.99
1:t:334:PHE:HZ	1:t:388:LEU:CD2	1.75	0.99
1:y:334:PHE:HZ	1:y:388:LEU:CD2	1.75	0.99
1:O:389:GLU:OE1	1:d:358:ASN:HA	1.62	0.99
1:3:334:PHE:HZ	1:3:388:LEU:CD2	1.75	0.99
1:H:334:PHE:HZ	1:H:388:LEU:CD2	1.75	0.99
1:O:334:PHE:HZ	1:O:388:LEU:CD2	1.75	0.99
1:Q:358:ASN:HA	1:S:389:GLU:OE1	1.63	0.99
1:a:334:PHE:HZ	1:a:388:LEU:CD2	1.75	0.99
1:p:334:PHE:HZ	1:p:388:LEU:CD2	1.75	0.99
1:v:389:GLU:OE1	1:1:358:ASN:HA	1.62	0.99
1:P:358:ASN:HA	1:Q:389:GLU:OE1	1.63	0.99
1:T:334:PHE:HZ	1:T:388:LEU:CD2	1.75	0.99
1:m:334:PHE:HZ	1:m:388:LEU:CD2	1.75	0.99
1:n:334:PHE:HZ	1:n:388:LEU:CD2	1.75	0.99
1:5:334:PHE:HZ	1:5:388:LEU:CD2	1.75	0.99
1:B:389:GLU:OE1	1:C:358:ASN:HA	1.63	0.99
1:I:334:PHE:HZ	1:I:388:LEU:CD2	1.75	0.99
1:J:334:PHE:HZ	1:J:388:LEU:CD2	1.75	0.99
1:O:358:ASN:HA	1:P:389:GLU:OE1	1.62	0.99
1:V:334:PHE:HZ	1:V:388:LEU:CD2	1.75	0.99
1:d:334:PHE:HZ	1:d:388:LEU:CD2	1.75	0.99
1:i:334:PHE:HZ	1:i:388:LEU:CD2	1.75	0.99
1:l:334:PHE:HZ	1:l:388:LEU:CD2	1.75	0.99
1:q:334:PHE:HZ	1:q:388:LEU:CD2	1.75	0.99
1:r:389:GLU:OE1	1:x:358:ASN:HA	1.63	0.99
1:H:389:GLU:OE1	1:Z:358:ASN:HA	1.62	0.99
1:N:334:PHE:HZ	1:N:388:LEU:CD2	1.75	0.99
1:Q:334:PHE:HZ	1:Q:388:LEU:CD2	1.75	0.99
1:g:358:ASN:HA	1:1:389:GLU:OE1	1.63	0.99
1:l:389:GLU:OE1	1:n:358:ASN:HA	1.63	0.99
1:r:334:PHE:HZ	1:r:388:LEU:CD2	1.75	0.99
1:u:334:PHE:HZ	1:u:388:LEU:CD2	1.75	0.99
1:I:358:ASN:HA	1:J:389:GLU:OE1	1.63	0.98
1:k:389:GLU:OE1	1:w:358:ASN:HA	1.62	0.98
1:2:334:PHE:HZ	1:2:388:LEU:CD2	1.75	0.98
1:5:389:GLU:OE1	1:8:358:ASN:HA	1.62	0.98
1:M:389:GLU:OE1	1:c:358:ASN:HA	1.63	0.98
1:S:334:PHE:HZ	1:S:388:LEU:CD2	1.75	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:358:ASN:HA	1:Y:389:GLU:OE1	1.62	0.98
1:Z:389:GLU:OE1	1:a:358:ASN:HA	1.63	0.98
1:o:358:ASN:HA	1:7:389:GLU:OE1	1.62	0.98
1:u:358:ASN:HA	1:2:389:GLU:OE1	1.63	0.98
1:x:334:PHE:HZ	1:x:388:LEU:CD2	1.75	0.98
1:3:358:ASN:HA	1:8:389:GLU:OE1	1.62	0.98
1:A:389:GLU:OE1	1:B:358:ASN:HA	1.63	0.98
1:e:358:ASN:HA	1:h:389:GLU:OE1	1.63	0.98
1:N:358:ASN:HA	1:m:389:GLU:OE1	1.62	0.98
1:w:334:PHE:HZ	1:w:388:LEU:CD2	1.75	0.98
1:D:389:GLU:OE1	1:E:358:ASN:HA	1.63	0.98
1:E:334:PHE:HZ	1:E:388:LEU:CD2	1.75	0.98
1:j:389:GLU:OE1	1:l:358:ASN:HA	1.62	0.98
1:z:389:GLU:OE1	1:4:358:ASN:HA	1.63	0.98
1:K:358:ASN:HA	1:L:389:GLU:OE1	1.62	0.98
1:n:389:GLU:OE1	1:r:358:ASN:HA	1.62	0.98
1:D:334:PHE:HZ	1:D:388:LEU:CD2	1.75	0.98
1:F:389:GLU:OE1	1:R:358:ASN:HA	1.62	0.98
1:T:389:GLU:OE1	1:i:358:ASN:HA	1.62	0.98
1:U:334:PHE:HZ	1:U:388:LEU:CD2	1.75	0.98
1:q:358:ASN:HA	1:y:389:GLU:OE1	1.62	0.98
1:t:389:GLU:OE1	1:y:358:ASN:HA	1.63	0.98
1:s:334:PHE:HZ	1:s:388:LEU:CD2	1.75	0.98
1:K:334:PHE:HZ	1:K:388:LEU:CD2	1.75	0.97
1:S:358:ASN:HA	1:d:389:GLU:OE1	1.62	0.97
1:k:334:PHE:HZ	1:k:388:LEU:CD2	1.75	0.97
1:m:358:ASN:HA	1:s:389:GLU:OE1	1.62	0.97
1:F:358:ASN:HA	1:G:389:GLU:OE1	1.63	0.97
1:G:358:ASN:HA	1:W:389:GLU:OE1	1.62	0.97
1:Y:334:PHE:HZ	1:Y:388:LEU:CD2	1.75	0.97
1:4:334:PHE:HZ	1:4:388:LEU:CD2	1.75	0.97
1:7:334:PHE:HZ	1:7:388:LEU:CD2	1.75	0.97
1:A:334:PHE:HZ	1:A:388:LEU:CD2	1.75	0.97
1:T:358:ASN:HA	1:U:389:GLU:OE1	1.62	0.97
1:c:334:PHE:HZ	1:c:388:LEU:CD2	1.75	0.97
1:2:358:ASN:HA	1:3:389:GLU:OE1	1.62	0.97
1:J:358:ASN:HA	1:a:389:GLU:OE1	1.62	0.97
1:c:389:GLU:OE1	1:s:358:ASN:HA	1.62	0.97
1:e:334:PHE:HZ	1:e:388:LEU:CD2	1.75	0.97
1:h:334:PHE:HZ	1:h:388:LEU:CD2	1.75	0.97
1:v:334:PHE:HZ	1:v:388:LEU:CD2	1.75	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:334:PHE:HZ	1:z:388:LEU:CD2	1.75	0.97
1:U:358:ASN:HA	1:e:389:GLU:OE1	1.62	0.97
1:p:358:ASN:HA	1:q:389:GLU:OE1	1.63	0.97
1:t:358:ASN:HA	1:6:389:GLU:OE1	1.63	0.97
1:A:358:ASN:HA	1:E:389:GLU:OE1	1.63	0.97
1:L:334:PHE:HZ	1:L:388:LEU:CD2	1.75	0.97
1:M:334:PHE:HZ	1:M:388:LEU:CD2	1.75	0.97
1:R:389:GLU:OE1	1:V:358:ASN:HA	1.63	0.97
1:u:389:GLU:OE1	1:5:358:ASN:HA	1.63	0.97
1:X:389:GLU:OE1	1:f:358:ASN:HA	1.63	0.96
1:v:358:ASN:HA	1:w:389:GLU:OE1	1.63	0.96
1:H:358:ASN:HA	1:I:389:GLU:OE1	1.63	0.96
1:L:358:ASN:HA	1:b:389:GLU:OE1	1.62	0.96
1:b:358:ASN:HA	1:o:389:GLU:OE1	1.63	0.96
1:f:389:GLU:OE1	1:z:358:ASN:HA	1.62	0.96
1:U:253:ARG:HH21	1:U:379:GLN:HE22	1.18	0.91
1:s:253:ARG:HH21	1:s:379:GLN:HE22	1.18	0.91
1:d:253:ARG:HH21	1:d:379:GLN:HE22	1.18	0.91
1:x:253:ARG:HH21	1:x:379:GLN:HE22	1.18	0.91
1:N:253:ARG:HH21	1:N:379:GLN:HE22	1.18	0.91
1:Q:253:ARG:HH21	1:Q:379:GLN:HE22	1.18	0.91
1:v:253:ARG:HH21	1:v:379:GLN:HE22	1.18	0.91
1:P:253:ARG:HH21	1:P:379:GLN:HE22	1.18	0.91
1:i:253:ARG:HH21	1:i:379:GLN:HE22	1.18	0.91
1:n:253:ARG:HH21	1:n:379:GLN:HE22	1.18	0.91
1:W:253:ARG:HH21	1:W:379:GLN:HE22	1.18	0.91
1:j:253:ARG:HH21	1:j:379:GLN:HE22	1.18	0.91
1:A:253:ARG:HH21	1:A:379:GLN:HE22	1.18	0.91
1:6:253:ARG:HH21	1:6:379:GLN:HE22	1.18	0.91
1:E:253:ARG:HH21	1:E:379:GLN:HE22	1.18	0.91
1:l:253:ARG:HH21	1:l:379:GLN:HE22	1.18	0.91
1:O:253:ARG:HH21	1:O:379:GLN:HE22	1.18	0.91
1:w:253:ARG:HH21	1:w:379:GLN:HE22	1.18	0.90
1:C:253:ARG:HH21	1:C:379:GLN:HE22	1.18	0.90
1:L:253:ARG:HH21	1:L:379:GLN:HE22	1.18	0.90
1:R:253:ARG:HH21	1:R:379:GLN:HE22	1.18	0.90
1:z:253:ARG:HH21	1:z:379:GLN:HE22	1.18	0.90
1:5:253:ARG:HH21	1:5:379:GLN:HE22	1.18	0.90
1:a:253:ARG:HH21	1:a:379:GLN:HE22	1.18	0.90
1:g:253:ARG:HH21	1:g:379:GLN:HE22	1.18	0.90
1:q:253:ARG:HH21	1:q:379:GLN:HE22	1.18	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:ARG:HH21	1:I:379:GLN:HE22	1.18	0.90
1:H:253:ARG:HH21	1:H:379:GLN:HE22	1.18	0.90
1:c:253:ARG:HH21	1:c:379:GLN:HE22	1.18	0.90
1:u:253:ARG:HH21	1:u:379:GLN:HE22	1.18	0.90
1:3:253:ARG:HH21	1:3:379:GLN:HE22	1.18	0.90
1:G:253:ARG:HH21	1:G:379:GLN:HE22	1.18	0.90
1:e:253:ARG:HH21	1:e:379:GLN:HE22	1.18	0.89
1:h:253:ARG:HH21	1:h:379:GLN:HE22	1.18	0.89
1:t:253:ARG:HH21	1:t:379:GLN:HE22	1.18	0.89
1:M:253:ARG:HH21	1:M:379:GLN:HE22	1.18	0.89
1:Z:253:ARG:HH21	1:Z:379:GLN:HE22	1.18	0.89
1:8:253:ARG:HH21	1:8:379:GLN:HE22	1.18	0.89
1:m:253:ARG:HH21	1:m:379:GLN:HE22	1.18	0.89
1:T:253:ARG:HH21	1:T:379:GLN:HE22	1.18	0.88
1:S:253:ARG:HH21	1:S:379:GLN:HE22	1.18	0.88
1:Y:253:ARG:HH21	1:Y:379:GLN:HE22	1.18	0.88
1:7:253:ARG:HH21	1:7:379:GLN:HE22	1.18	0.88
1:F:253:ARG:HH21	1:F:379:GLN:HE22	1.18	0.88
1:y:253:ARG:HH21	1:y:379:GLN:HE22	1.18	0.88
1:r:253:ARG:HH21	1:r:379:GLN:HE22	1.18	0.88
1:4:253:ARG:HH21	1:4:379:GLN:HE22	1.18	0.87
1:K:253:ARG:HH21	1:K:379:GLN:HE22	1.18	0.87
1:Y:334:PHE:HZ	1:Y:388:LEU:HD23	1.40	0.87
1:o:334:PHE:HZ	1:o:388:LEU:HD23	1.40	0.87
1:7:334:PHE:HZ	1:7:388:LEU:HD23	1.40	0.87
1:X:334:PHE:HZ	1:X:388:LEU:HD23	1.40	0.87
1:E:334:PHE:HZ	1:E:388:LEU:HD23	1.40	0.87
1:V:253:ARG:HH21	1:V:379:GLN:HE22	1.18	0.87
1:b:334:PHE:HZ	1:b:388:LEU:HD23	1.40	0.87
1:w:334:PHE:HZ	1:w:388:LEU:HD23	1.40	0.87
1:f:334:PHE:HZ	1:f:388:LEU:HD23	1.40	0.87
1:p:253:ARG:HH21	1:p:379:GLN:HE22	1.18	0.87
1:D:253:ARG:HH21	1:D:379:GLN:HE22	1.18	0.87
1:N:253:ARG:HH22	1:N:377:GLN:HE21	1.23	0.87
1:i:253:ARG:HH22	1:i:377:GLN:HE21	1.23	0.87
1:k:253:ARG:HH21	1:k:379:GLN:HE22	1.18	0.87
1:B:253:ARG:HH22	1:B:377:GLN:HE21	1.23	0.87
1:C:253:ARG:HH22	1:C:377:GLN:HE21	1.23	0.87
1:G:253:ARG:HH22	1:G:377:GLN:HE21	1.23	0.87
1:c:253:ARG:HH22	1:c:377:GLN:HE21	1.23	0.87
1:e:253:ARG:HH22	1:e:377:GLN:HE21	1.23	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:253:ARG:HH22	1:g:377:GLN:HE21	1.23	0.87
1:l:253:ARG:HH22	1:l:377:GLN:HE21	1.23	0.87
1:s:334:PHE:HZ	1:s:388:LEU:HD23	1.40	0.87
1:t:253:ARG:HH22	1:t:377:GLN:HE21	1.23	0.87
1:B:334:PHE:HZ	1:B:388:LEU:HD23	1.40	0.86
1:U:334:PHE:HZ	1:U:388:LEU:HD23	1.40	0.86
1:1:334:PHE:HZ	1:1:388:LEU:HD23	1.40	0.86
1:T:334:PHE:HZ	1:T:388:LEU:HD23	1.40	0.86
1:Y:253:ARG:HH22	1:Y:377:GLN:HE21	1.23	0.86
1:m:334:PHE:HZ	1:m:388:LEU:HD23	1.40	0.86
1:x:334:PHE:HZ	1:x:388:LEU:HD23	1.40	0.86
1:7:253:ARG:HH22	1:7:377:GLN:HE21	1.23	0.86
1:5:334:PHE:HZ	1:5:388:LEU:HD23	1.40	0.86
1:d:334:PHE:HZ	1:d:388:LEU:HD23	1.40	0.86
1:t:334:PHE:HZ	1:t:388:LEU:HD23	1.40	0.86
1:A:334:PHE:HZ	1:A:388:LEU:HD23	1.40	0.86
1:G:334:PHE:HZ	1:G:388:LEU:HD23	1.40	0.86
1:H:334:PHE:HZ	1:H:388:LEU:HD23	1.40	0.86
1:n:334:PHE:HZ	1:n:388:LEU:HD23	1.40	0.86
1:L:253:ARG:HH22	1:L:377:GLN:HE21	1.23	0.86
1:Q:334:PHE:HZ	1:Q:388:LEU:HD23	1.40	0.86
1:J:253:ARG:HH21	1:J:379:GLN:HE22	1.18	0.86
1:v:334:PHE:HZ	1:v:388:LEU:HD23	1.40	0.86
1:z:253:ARG:HH22	1:z:377:GLN:HE21	1.23	0.86
1:b:253:ARG:HH21	1:b:379:GLN:HE22	1.18	0.86
1:K:334:PHE:HZ	1:K:388:LEU:HD23	1.40	0.86
1:f:253:ARG:HH21	1:f:379:GLN:HE22	1.18	0.86
1:Q:253:ARG:HH22	1:Q:377:GLN:HE21	1.23	0.85
1:x:253:ARG:HH22	1:x:377:GLN:HE21	1.23	0.85
1:4:253:ARG:HH22	1:4:377:GLN:HE21	1.23	0.85
1:C:334:PHE:HZ	1:C:388:LEU:HD23	1.40	0.85
1:2:253:ARG:HH21	1:2:379:GLN:HE22	1.18	0.85
1:I:334:PHE:HZ	1:I:388:LEU:HD23	1.40	0.85
1:o:253:ARG:HH21	1:o:379:GLN:HE22	1.18	0.85
1:4:334:PHE:HZ	1:4:388:LEU:HD23	1.40	0.85
1:J:253:ARG:HH22	1:J:377:GLN:HE21	1.23	0.85
1:K:253:ARG:HH22	1:K:377:GLN:HE21	1.23	0.85
1:a:334:PHE:HZ	1:a:388:LEU:HD23	1.40	0.85
1:h:334:PHE:HZ	1:h:388:LEU:HD23	1.40	0.85
1:y:253:ARG:HH22	1:y:377:GLN:HE21	1.23	0.85
1:2:334:PHE:HZ	1:2:388:LEU:HD23	1.40	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:334:PHE:HZ	1:3:388:LEU:HD23	1.40	0.85
1:F:253:ARG:HH22	1:F:377:GLN:HE21	1.23	0.85
1:J:334:PHE:HZ	1:J:388:LEU:HD23	1.40	0.85
1:M:334:PHE:HZ	1:M:388:LEU:HD23	1.40	0.85
1:g:334:PHE:HZ	1:g:388:LEU:HD23	1.40	0.85
1:u:334:PHE:HZ	1:u:388:LEU:HD23	1.40	0.85
1:3:253:ARG:HH22	1:3:377:GLN:HE21	1.23	0.85
1:X:253:ARG:HH22	1:X:377:GLN:HE21	1.23	0.85
1:p:253:ARG:HH22	1:p:377:GLN:HE21	1.23	0.85
1:w:253:ARG:HH22	1:w:377:GLN:HE21	1.23	0.85
1:F:334:PHE:HZ	1:F:388:LEU:HD23	1.40	0.85
1:X:253:ARG:HH21	1:X:379:GLN:HE22	1.18	0.85
1:a:253:ARG:HH22	1:a:377:GLN:HE21	1.23	0.85
1:y:334:PHE:HZ	1:y:388:LEU:HD23	1.40	0.85
1:2:253:ARG:HH22	1:2:377:GLN:HE21	1.23	0.85
1:6:253:ARG:HH22	1:6:377:GLN:HE21	1.23	0.85
1:E:253:ARG:HH22	1:E:377:GLN:HE21	1.23	0.85
1:E:596:MET:HE3	1:E:599:LEU:HD11	1.59	0.85
1:Q:596:MET:HE3	1:Q:599:LEU:HD11	1.59	0.85
1:V:253:ARG:HH22	1:V:377:GLN:HE21	1.23	0.85
1:d:596:MET:HE3	1:d:599:LEU:HD11	1.59	0.85
1:h:596:MET:HE3	1:h:599:LEU:HD11	1.59	0.85
1:n:596:MET:HE3	1:n:599:LEU:HD11	1.59	0.85
1:q:253:ARG:HH22	1:q:377:GLN:HE21	1.23	0.85
1:F:596:MET:HE3	1:F:599:LEU:HD11	1.59	0.85
1:M:596:MET:HE3	1:M:599:LEU:HD11	1.59	0.85
1:S:334:PHE:HZ	1:S:388:LEU:HD23	1.40	0.85
1:W:253:ARG:HH22	1:W:377:GLN:HE21	1.23	0.85
1:a:596:MET:HE3	1:a:599:LEU:HD11	1.59	0.85
1:e:334:PHE:HZ	1:e:388:LEU:HD23	1.40	0.85
1:o:253:ARG:HH22	1:o:377:GLN:HE21	1.23	0.85
1:t:596:MET:HE3	1:t:599:LEU:HD11	1.59	0.85
1:w:596:MET:HE3	1:w:599:LEU:HD11	1.59	0.85
1:y:596:MET:HE3	1:y:599:LEU:HD11	1.59	0.85
1:3:596:MET:HE3	1:3:599:LEU:HD11	1.59	0.85
1:G:596:MET:HE3	1:G:599:LEU:HD11	1.59	0.85
1:H:596:MET:HE3	1:H:599:LEU:HD11	1.59	0.85
1:Y:596:MET:HE3	1:Y:599:LEU:HD11	1.59	0.85
1:s:596:MET:HE3	1:s:599:LEU:HD11	1.59	0.85
1:x:596:MET:HE3	1:x:599:LEU:HD11	1.59	0.85
1:1:596:MET:HE3	1:1:599:LEU:HD11	1.59	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:596:MET:HE3	1:5:599:LEU:HD11	1.59	0.85
1:7:596:MET:HE3	1:7:599:LEU:HD11	1.59	0.85
1:B:253:ARG:HH21	1:B:379:GLN:HE22	1.18	0.84
1:B:596:MET:HE3	1:B:599:LEU:HD11	1.59	0.84
1:R:253:ARG:HH22	1:R:377:GLN:HE21	1.23	0.84
1:R:334:PHE:HZ	1:R:388:LEU:HD23	1.40	0.84
1:U:596:MET:HE3	1:U:599:LEU:HD11	1.59	0.84
1:r:334:PHE:HZ	1:r:388:LEU:HD23	1.40	0.84
1:L:334:PHE:HZ	1:L:388:LEU:HD23	1.40	0.84
1:P:334:PHE:HZ	1:P:388:LEU:HD23	1.40	0.84
1:c:334:PHE:HZ	1:c:388:LEU:HD23	1.40	0.84
1:f:596:MET:HE3	1:f:599:LEU:HD11	1.59	0.84
1:O:596:MET:HE3	1:O:599:LEU:HD11	1.59	0.84
1:V:334:PHE:HZ	1:V:388:LEU:HD23	1.40	0.84
1:W:596:MET:HE3	1:W:599:LEU:HD11	1.59	0.84
1:6:596:MET:HE3	1:6:599:LEU:HD11	1.59	0.84
1:Z:253:ARG:HH22	1:Z:377:GLN:HE21	1.23	0.84
1:b:596:MET:HE3	1:b:599:LEU:HD11	1.59	0.84
1:j:334:PHE:HZ	1:j:388:LEU:HD23	1.40	0.84
1:n:253:ARG:HH22	1:n:377:GLN:HE21	1.23	0.84
1:J:596:MET:HE3	1:J:599:LEU:HD11	1.59	0.84
1:S:253:ARG:HH22	1:S:377:GLN:HE21	1.23	0.84
1:U:253:ARG:HH22	1:U:377:GLN:HE21	1.23	0.84
1:l:596:MET:HE3	1:l:599:LEU:HD11	1.59	0.84
1:q:334:PHE:HZ	1:q:388:LEU:HD23	1.40	0.84
1:1:253:ARG:HH21	1:1:379:GLN:HE22	1.18	0.84
1:8:253:ARG:HH22	1:8:377:GLN:HE21	1.23	0.84
1:p:334:PHE:HZ	1:p:388:LEU:HD23	1.40	0.84
1:z:334:PHE:HZ	1:z:388:LEU:HD23	1.40	0.84
1:d:253:ARG:HH22	1:d:377:GLN:HE21	1.23	0.84
1:g:596:MET:HE3	1:g:599:LEU:HD11	1.59	0.84
1:r:253:ARG:HH22	1:r:377:GLN:HE21	1.23	0.84
1:s:253:ARG:HH22	1:s:377:GLN:HE21	1.23	0.84
1:2:596:MET:HE3	1:2:599:LEU:HD11	1.59	0.84
1:5:253:ARG:HH22	1:5:377:GLN:HE21	1.23	0.84
1:J:258:SER:O	1:J:262:THR:OG1	1.96	0.84
1:W:334:PHE:HZ	1:W:388:LEU:HD23	1.40	0.84
1:g:258:SER:O	1:g:262:THR:OG1	1.96	0.84
1:2:258:SER:O	1:2:262:THR:OG1	1.96	0.84
1:6:334:PHE:HZ	1:6:388:LEU:HD23	1.40	0.84
1:8:334:PHE:HZ	1:8:388:LEU:HD23	1.40	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:258:SER:O	1:C:262:THR:OG1	1.96	0.84
1:C:596:MET:HE3	1:C:599:LEU:HD11	1.59	0.84
1:P:253:ARG:HH22	1:P:377:GLN:HE21	1.23	0.84
1:S:596:MET:HE3	1:S:599:LEU:HD11	1.59	0.84
1:A:258:SER:O	1:A:262:THR:OG1	1.96	0.84
1:N:258:SER:O	1:N:262:THR:OG1	1.96	0.84
1:b:253:ARG:HH22	1:b:377:GLN:HE21	1.23	0.84
1:c:596:MET:HE3	1:c:599:LEU:HD11	1.59	0.84
1:f:253:ARG:HH22	1:f:377:GLN:HE21	1.23	0.84
1:i:258:SER:O	1:i:262:THR:OG1	1.96	0.84
1:i:596:MET:HE3	1:i:599:LEU:HD11	1.59	0.84
1:l:334:PHE:HZ	1:l:388:LEU:HD23	1.40	0.84
1:v:258:SER:O	1:v:262:THR:OG1	1.96	0.84
1:H:253:ARG:HH22	1:H:377:GLN:HE21	1.23	0.83
1:N:596:MET:HE3	1:N:599:LEU:HD11	1.59	0.83
1:O:334:PHE:HZ	1:O:388:LEU:HD23	1.40	0.83
1:Z:334:PHE:HZ	1:Z:388:LEU:HD23	1.40	0.83
1:Z:334:PHE:CZ	1:Z:388:LEU:CD2	2.61	0.83
1:e:596:MET:HE3	1:e:599:LEU:HD11	1.59	0.83
1:r:596:MET:HE3	1:r:599:LEU:HD11	1.59	0.83
1:8:334:PHE:CZ	1:8:388:LEU:CD2	2.61	0.83
1:L:334:PHE:CZ	1:L:388:LEU:CD2	2.61	0.83
1:m:258:SER:O	1:m:262:THR:OG1	1.96	0.83
1:m:596:MET:HE3	1:m:599:LEU:HD11	1.59	0.83
1:A:334:PHE:CZ	1:A:388:LEU:CD2	2.62	0.83
1:B:258:SER:O	1:B:262:THR:OG1	1.96	0.83
1:G:334:PHE:CZ	1:G:388:LEU:CD2	2.62	0.83
1:R:334:PHE:CZ	1:R:388:LEU:CD2	2.61	0.83
1:T:258:SER:O	1:T:262:THR:OG1	1.96	0.83
1:h:258:SER:O	1:h:262:THR:OG1	1.96	0.83
1:j:253:ARG:HH22	1:j:377:GLN:HE21	1.23	0.83
1:t:334:PHE:CZ	1:t:388:LEU:CD2	2.62	0.83
1:z:334:PHE:CZ	1:z:388:LEU:CD2	2.62	0.83
1:4:596:MET:HE3	1:4:599:LEU:HD11	1.59	0.83
1:C:334:PHE:CZ	1:C:388:LEU:CD2	2.62	0.83
1:o:286:ASP:OD2	1:7:390:TYR:OH	1.96	0.83
1:q:334:PHE:CZ	1:q:388:LEU:CD2	2.61	0.83
1:F:258:SER:O	1:F:262:THR:OG1	1.96	0.83
1:F:334:PHE:CZ	1:F:388:LEU:CD2	2.62	0.83
1:K:596:MET:HE3	1:K:599:LEU:HD11	1.59	0.83
1:M:258:SER:O	1:M:262:THR:OG1	1.96	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:PHE:CZ	1:T:388:LEU:CD2	2.62	0.83
1:T:596:MET:HE3	1:T:599:LEU:HD11	1.59	0.83
1:X:286:ASP:OD2	1:Y:390:TYR:OH	1.96	0.83
1:g:334:PHE:CZ	1:g:388:LEU:CD2	2.62	0.83
1:m:334:PHE:CZ	1:m:388:LEU:CD2	2.62	0.83
1:v:334:PHE:CZ	1:v:388:LEU:CD2	2.62	0.83
1:1:258:SER:O	1:1:262:THR:OG1	1.96	0.83
1:8:596:MET:HE3	1:8:599:LEU:HD11	1.59	0.83
1:Y:334:PHE:CZ	1:Y:388:LEU:CD2	2.61	0.83
1:Z:596:MET:HE3	1:Z:599:LEU:HD11	1.59	0.83
1:r:258:SER:O	1:r:262:THR:OG1	1.96	0.83
1:y:258:SER:O	1:y:262:THR:OG1	1.96	0.83
1:y:334:PHE:CZ	1:y:388:LEU:CD2	2.62	0.83
1:z:258:SER:O	1:z:262:THR:OG1	1.96	0.83
1:G:258:SER:O	1:G:262:THR:OG1	1.96	0.83
1:N:334:PHE:HZ	1:N:388:LEU:HD23	1.40	0.83
1:S:258:SER:O	1:S:262:THR:OG1	1.96	0.83
1:Z:258:SER:O	1:Z:262:THR:OG1	1.96	0.83
1:h:286:ASP:OD2	1:i:390:TYR:OH	1.96	0.83
1:o:334:PHE:CZ	1:o:388:LEU:CD2	2.62	0.83
1:t:258:SER:O	1:t:262:THR:OG1	1.96	0.83
1:7:334:PHE:CZ	1:7:388:LEU:CD2	2.61	0.83
1:D:258:SER:O	1:D:262:THR:OG1	1.96	0.83
1:L:258:SER:O	1:L:262:THR:OG1	1.96	0.83
1:O:258:SER:O	1:O:262:THR:OG1	1.96	0.83
1:X:334:PHE:CZ	1:X:388:LEU:CD2	2.62	0.83
1:i:334:PHE:HZ	1:i:388:LEU:HD23	1.40	0.83
1:p:334:PHE:CZ	1:p:388:LEU:CD2	2.62	0.83
1:u:258:SER:O	1:u:262:THR:OG1	1.96	0.83
1:6:334:PHE:CZ	1:6:388:LEU:CD2	2.62	0.83
1:M:286:ASP:OD2	1:N:390:TYR:OH	1.96	0.83
1:P:258:SER:O	1:P:262:THR:OG1	1.96	0.83
1:V:334:PHE:CZ	1:V:388:LEU:CD2	2.62	0.83
1:W:334:PHE:CZ	1:W:388:LEU:CD2	2.62	0.83
1:j:334:PHE:CZ	1:j:388:LEU:CD2	2.62	0.83
1:k:258:SER:O	1:k:262:THR:OG1	1.96	0.83
1:k:334:PHE:HZ	1:k:388:LEU:HD23	1.40	0.83
1:v:253:ARG:HH22	1:v:377:GLN:HE21	1.23	0.83
1:8:258:SER:O	1:8:262:THR:OG1	1.96	0.83
1:A:253:ARG:HH22	1:A:377:GLN:HE21	1.23	0.83
1:I:258:SER:O	1:I:262:THR:OG1	1.96	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:596:MET:HE3	1:L:599:LEU:HD11	1.59	0.83
1:P:334:PHE:CZ	1:P:388:LEU:CD2	2.62	0.83
1:W:258:SER:O	1:W:262:THR:OG1	1.96	0.83
1:j:258:SER:O	1:j:262:THR:OG1	1.96	0.83
1:l:258:SER:O	1:l:262:THR:OG1	1.96	0.83
1:6:258:SER:O	1:6:262:THR:OG1	1.96	0.83
1:7:258:SER:O	1:7:262:THR:OG1	1.96	0.83
1:E:258:SER:O	1:E:262:THR:OG1	1.96	0.82
1:N:334:PHE:CZ	1:N:388:LEU:CD2	2.61	0.82
1:z:596:MET:HE3	1:z:599:LEU:HD11	1.59	0.82
1:3:334:PHE:CZ	1:3:388:LEU:CD2	2.62	0.82
1:A:596:MET:HE3	1:A:599:LEU:HD11	1.59	0.82
1:P:596:MET:HE3	1:P:599:LEU:HD11	1.59	0.82
1:Y:258:SER:O	1:Y:262:THR:OG1	1.96	0.82
1:a:334:PHE:CZ	1:a:388:LEU:CD2	2.62	0.82
1:c:258:SER:O	1:c:262:THR:OG1	1.96	0.82
1:f:334:PHE:CZ	1:f:388:LEU:CD2	2.62	0.82
1:q:596:MET:HE3	1:q:599:LEU:HD11	1.59	0.82
1:w:258:SER:O	1:w:262:THR:OG1	1.96	0.82
1:D:334:PHE:HZ	1:D:388:LEU:HD23	1.40	0.82
1:M:334:PHE:CZ	1:M:388:LEU:CD2	2.62	0.82
1:U:334:PHE:CZ	1:U:388:LEU:CD2	2.61	0.82
1:b:334:PHE:CZ	1:b:388:LEU:CD2	2.62	0.82
1:i:334:PHE:CZ	1:i:388:LEU:CD2	2.62	0.82
1:n:334:PHE:CZ	1:n:388:LEU:CD2	2.62	0.82
1:M:253:ARG:HH22	1:M:377:GLN:HE21	1.23	0.82
1:O:334:PHE:CZ	1:O:388:LEU:CD2	2.61	0.82
1:R:596:MET:HE3	1:R:599:LEU:HD11	1.59	0.82
1:d:258:SER:O	1:d:262:THR:OG1	1.96	0.82
1:e:258:SER:O	1:e:262:THR:OG1	1.96	0.82
1:h:334:PHE:CZ	1:h:388:LEU:CD2	2.62	0.82
1:j:596:MET:HE3	1:j:599:LEU:HD11	1.59	0.82
1:l:334:PHE:CZ	1:l:388:LEU:CD2	2.61	0.82
1:s:334:PHE:CZ	1:s:388:LEU:CD2	2.61	0.82
1:E:334:PHE:CZ	1:E:388:LEU:CD2	2.62	0.82
1:I:253:ARG:HH22	1:I:377:GLN:HE21	1.23	0.82
1:I:596:MET:HE3	1:I:599:LEU:HD11	1.59	0.82
1:K:258:SER:O	1:K:262:THR:OG1	1.96	0.82
1:X:596:MET:HE3	1:X:599:LEU:HD11	1.59	0.82
1:d:334:PHE:CZ	1:d:388:LEU:CD2	2.61	0.82
1:m:253:ARG:HH22	1:m:377:GLN:HE21	1.23	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:258:SER:O	1:n:262:THR:OG1	1.96	0.82
1:o:596:MET:HE3	1:o:599:LEU:HD11	1.59	0.82
1:u:253:ARG:HH22	1:u:377:GLN:HE21	1.23	0.82
1:w:334:PHE:CZ	1:w:388:LEU:CD2	2.62	0.82
1:R:258:SER:O	1:R:262:THR:OG1	1.96	0.82
1:X:258:SER:O	1:X:262:THR:OG1	1.96	0.82
1:h:253:ARG:HH22	1:h:377:GLN:HE21	1.23	0.82
1:j:390:TYR:OH	1:l:286:ASP:OD2	1.96	0.82
1:v:596:MET:HE3	1:v:599:LEU:HD11	1.59	0.82
1:4:258:SER:O	1:4:262:THR:OG1	1.96	0.82
1:4:334:PHE:CZ	1:4:388:LEU:CD2	2.62	0.82
1:H:334:PHE:CZ	1:H:388:LEU:CD2	2.62	0.82
1:K:334:PHE:CZ	1:K:388:LEU:CD2	2.62	0.82
1:U:258:SER:O	1:U:262:THR:OG1	1.96	0.82
1:o:258:SER:O	1:o:262:THR:OG1	1.96	0.82
1:s:258:SER:O	1:s:262:THR:OG1	1.96	0.82
1:u:596:MET:HE3	1:u:599:LEU:HD11	1.59	0.82
1:T:253:ARG:HH22	1:T:377:GLN:HE21	1.23	0.82
1:B:334:PHE:CZ	1:B:388:LEU:CD2	2.61	0.82
1:q:258:SER:O	1:q:262:THR:OG1	1.96	0.82
1:5:334:PHE:CZ	1:5:388:LEU:CD2	2.62	0.82
1:H:258:SER:O	1:H:262:THR:OG1	1.96	0.82
1:k:334:PHE:CZ	1:k:388:LEU:CD2	2.62	0.82
1:p:258:SER:O	1:p:262:THR:OG1	1.96	0.82
1:D:596:MET:HE3	1:D:599:LEU:HD11	1.59	0.81
1:p:596:MET:HE3	1:p:599:LEU:HD11	1.59	0.81
1:1:334:PHE:CZ	1:1:388:LEU:CD2	2.61	0.81
1:5:258:SER:O	1:5:262:THR:OG1	1.96	0.81
1:D:334:PHE:CZ	1:D:388:LEU:CD2	2.62	0.81
1:V:258:SER:O	1:V:262:THR:OG1	1.96	0.81
1:V:596:MET:HE3	1:V:599:LEU:HD11	1.59	0.81
1:c:334:PHE:CZ	1:c:388:LEU:CD2	2.62	0.81
1:k:596:MET:HE3	1:k:599:LEU:HD11	1.59	0.81
1:Q:286:ASP:OD2	1:S:390:TYR:OH	1.99	0.81
1:e:334:PHE:CZ	1:e:388:LEU:CD2	2.62	0.81
1:f:258:SER:O	1:f:262:THR:OG1	1.96	0.81
1:l:253:ARG:HH22	1:l:377:GLN:HE21	1.23	0.81
1:r:334:PHE:CZ	1:r:388:LEU:CD2	2.62	0.81
1:r:390:TYR:OH	1:x:286:ASP:OD2	1.99	0.81
1:u:334:PHE:CZ	1:u:388:LEU:CD2	2.62	0.81
1:I:334:PHE:CZ	1:I:388:LEU:CD2	2.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:390:TYR:OH	1:n:286:ASP:OD2	1.99	0.81
1:O:253:ARG:HH22	1:O:377:GLN:HE21	1.23	0.81
1:O:390:TYR:OH	1:d:286:ASP:OD2	1.99	0.81
1:R:390:TYR:OH	1:V:286:ASP:OD2	1.99	0.81
1:S:334:PHE:CZ	1:S:388:LEU:CD2	2.62	0.81
1:b:258:SER:O	1:b:262:THR:OG1	1.96	0.81
1:k:253:ARG:HH22	1:k:377:GLN:HE21	1.23	0.81
1:I:326:ASN:ND2	1:I:329:SER:OG	2.14	0.81
1:J:326:ASN:ND2	1:J:329:SER:OG	2.14	0.81
1:J:334:PHE:CZ	1:J:388:LEU:CD2	2.62	0.81
1:T:286:ASP:OD2	1:U:390:TYR:OH	1.99	0.81
1:U:286:ASP:OD2	1:e:390:TYR:OH	1.99	0.81
1:X:390:TYR:OH	1:f:286:ASP:OD2	1.99	0.81
1:a:326:ASN:ND2	1:a:329:SER:OG	2.14	0.81
1:b:286:ASP:OD2	1:o:390:TYR:OH	1.99	0.81
1:c:390:TYR:OH	1:s:286:ASP:OD2	1.99	0.81
1:g:326:ASN:ND2	1:g:329:SER:OG	2.14	0.81
1:p:286:ASP:OD2	1:q:390:TYR:OH	1.99	0.81
1:u:326:ASN:ND2	1:u:329:SER:OG	2.14	0.81
1:y:326:ASN:ND2	1:y:329:SER:OG	2.14	0.81
1:2:326:ASN:ND2	1:2:329:SER:OG	2.14	0.81
1:3:326:ASN:ND2	1:3:329:SER:OG	2.14	0.81
1:C:326:ASN:ND2	1:C:329:SER:OG	2.14	0.81
1:F:326:ASN:ND2	1:F:329:SER:OG	2.14	0.81
1:F:390:TYR:OH	1:R:286:ASP:OD2	1.99	0.81
1:d:326:ASN:ND2	1:d:329:SER:OG	2.14	0.81
1:m:286:ASP:OD2	1:s:390:TYR:OH	1.99	0.81
1:n:326:ASN:ND2	1:n:329:SER:OG	2.14	0.81
1:q:286:ASP:OD2	1:y:390:TYR:OH	1.99	0.81
1:r:326:ASN:ND2	1:r:329:SER:OG	2.14	0.81
1:2:334:PHE:CZ	1:2:388:LEU:CD2	2.62	0.81
1:5:390:TYR:OH	1:8:286:ASP:OD2	1.99	0.81
1:H:390:TYR:OH	1:Z:286:ASP:OD2	1.99	0.81
1:Q:258:SER:O	1:Q:262:THR:OG1	1.96	0.81
1:Q:326:ASN:ND2	1:Q:329:SER:OG	2.14	0.81
1:Q:334:PHE:CZ	1:Q:388:LEU:CD2	2.62	0.81
1:S:326:ASN:ND2	1:S:329:SER:OG	2.14	0.81
1:X:326:ASN:ND2	1:X:329:SER:OG	2.14	0.81
1:i:326:ASN:ND2	1:i:329:SER:OG	2.14	0.81
1:o:326:ASN:ND2	1:o:329:SER:OG	2.14	0.81
1:x:326:ASN:ND2	1:x:329:SER:OG	2.14	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:ARG:HH22	1:D:377:GLN:HE21	1.23	0.81
1:I:286:ASP:OD2	1:J:390:TYR:OH	1.99	0.81
1:K:390:TYR:OH	1:7:286:ASP:OD2	1.98	0.81
1:a:258:SER:O	1:a:262:THR:OG1	1.96	0.81
1:v:286:ASP:OD2	1:w:390:TYR:OH	1.99	0.81
1:3:258:SER:O	1:3:262:THR:OG1	1.96	0.81
1:N:326:ASN:ND2	1:N:329:SER:OG	2.14	0.81
1:P:326:ASN:ND2	1:P:329:SER:OG	2.14	0.81
1:Y:286:ASP:OD2	1:4:390:TYR:OH	1.98	0.81
1:m:326:ASN:ND2	1:m:329:SER:OG	2.14	0.81
1:u:286:ASP:OD2	1:2:390:TYR:OH	1.99	0.81
1:x:258:SER:O	1:x:262:THR:OG1	1.96	0.81
1:x:334:PHE:CZ	1:x:388:LEU:CD2	2.62	0.81
1:E:326:ASN:ND2	1:E:329:SER:OG	2.14	0.80
1:L:326:ASN:ND2	1:L:329:SER:OG	2.14	0.80
1:M:326:ASN:ND2	1:M:329:SER:OG	2.14	0.80
1:N:286:ASP:OD2	1:m:390:TYR:OH	1.98	0.80
1:S:286:ASP:OD2	1:d:390:TYR:OH	1.99	0.80
1:T:326:ASN:ND2	1:T:329:SER:OG	2.14	0.80
1:T:390:TYR:OH	1:i:286:ASP:OD2	1.98	0.80
1:Y:326:ASN:ND2	1:Y:329:SER:OG	2.14	0.80
1:h:326:ASN:ND2	1:h:329:SER:OG	2.14	0.80
1:n:390:TYR:OH	1:r:286:ASP:OD2	1.99	0.80
1:w:326:ASN:ND2	1:w:329:SER:OG	2.14	0.80
1:z:326:ASN:ND2	1:z:329:SER:OG	2.14	0.80
1:5:326:ASN:ND2	1:5:329:SER:OG	2.14	0.80
1:7:326:ASN:ND2	1:7:329:SER:OG	2.14	0.80
1:A:286:ASP:OD2	1:E:390:TYR:OH	1.99	0.80
1:H:326:ASN:ND2	1:H:329:SER:OG	2.14	0.80
1:j:326:ASN:ND2	1:j:329:SER:OG	2.14	0.80
1:F:286:ASP:OD2	1:G:390:TYR:OH	1.99	0.80
1:G:326:ASN:ND2	1:G:329:SER:OG	2.14	0.80
1:c:326:ASN:ND2	1:c:329:SER:OG	2.14	0.80
1:q:326:ASN:ND2	1:q:329:SER:OG	2.14	0.80
1:t:390:TYR:OH	1:y:286:ASP:OD2	1.99	0.80
1:B:326:ASN:ND2	1:B:329:SER:OG	2.14	0.80
1:R:326:ASN:ND2	1:R:329:SER:OG	2.14	0.80
1:V:326:ASN:ND2	1:V:329:SER:OG	2.14	0.80
1:e:326:ASN:ND2	1:e:329:SER:OG	2.14	0.80
1:k:390:TYR:OH	1:w:286:ASP:OD2	1.99	0.80
1:p:326:ASN:ND2	1:p:329:SER:OG	2.14	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:326:ASN:ND2	1:t:329:SER:OG	2.14	0.80
1:P:286:ASP:OD2	1:Q:390:TYR:OH	1.99	0.80
1:k:326:ASN:ND2	1:k:329:SER:OG	2.14	0.80
1:1:326:ASN:ND2	1:1:329:SER:OG	2.14	0.80
1:D:326:ASN:ND2	1:D:329:SER:OG	2.14	0.80
1:K:286:ASP:OD2	1:L:390:TYR:OH	1.99	0.80
1:U:326:ASN:ND2	1:U:329:SER:OG	2.14	0.80
1:j:286:ASP:OD2	1:x:390:TYR:OH	1.99	0.80
1:p:390:TYR:OH	1:6:286:ASP:OD2	1.99	0.80
1:s:326:ASN:ND2	1:s:329:SER:OG	2.14	0.80
1:z:390:TYR:OH	1:4:286:ASP:OD2	1.99	0.80
1:3:286:ASP:OD2	1:8:390:TYR:OH	1.99	0.80
1:D:390:TYR:OH	1:E:286:ASP:OD2	1.99	0.80
1:V:390:TYR:OH	1:W:286:ASP:OD2	1.99	0.80
1:f:326:ASN:ND2	1:f:329:SER:OG	2.14	0.80
1:J:286:ASP:OD2	1:a:390:TYR:OH	1.99	0.80
1:Z:390:TYR:OH	1:a:286:ASP:OD2	1.99	0.80
1:u:390:TYR:OH	1:5:286:ASP:OD2	1.99	0.80
1:8:326:ASN:ND2	1:8:329:SER:OG	2.14	0.80
1:A:390:TYR:OH	1:B:286:ASP:OD2	1.99	0.80
1:H:286:ASP:OD2	1:I:390:TYR:OH	1.99	0.80
1:Z:326:ASN:ND2	1:Z:329:SER:OG	2.14	0.80
1:b:326:ASN:ND2	1:b:329:SER:OG	2.14	0.80
1:f:390:TYR:OH	1:z:286:ASP:OD2	1.99	0.80
1:4:326:ASN:ND2	1:4:329:SER:OG	2.14	0.80
1:v:326:ASN:ND2	1:v:329:SER:OG	2.14	0.80
1:2:286:ASP:OD2	1:3:390:TYR:OH	1.99	0.80
1:K:326:ASN:ND2	1:K:329:SER:OG	2.14	0.79
1:W:326:ASN:ND2	1:W:329:SER:OG	2.14	0.79
1:e:286:ASP:OD2	1:h:390:TYR:OH	1.99	0.79
1:6:326:ASN:ND2	1:6:329:SER:OG	2.14	0.79
1:A:326:ASN:ND2	1:A:329:SER:OG	2.14	0.79
1:B:390:TYR:OH	1:C:286:ASP:OD2	1.99	0.79
1:L:286:ASP:OD2	1:b:390:TYR:OH	1.99	0.79
1:M:390:TYR:OH	1:c:286:ASP:OD2	1.99	0.79
1:O:326:ASN:ND2	1:O:329:SER:OG	2.14	0.79
1:t:286:ASP:OD2	1:6:390:TYR:OH	1.99	0.79
1:C:390:TYR:OH	1:D:286:ASP:OD2	1.99	0.79
1:G:286:ASP:OD2	1:W:390:TYR:OH	1.99	0.79
1:g:286:ASP:OD2	1:1:390:TYR:OH	1.99	0.79
1:g:390:TYR:OH	1:k:286:ASP:OD2	1.99	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:326:ASN:ND2	1:l:329:SER:OG	2.14	0.79
1:v:390:TYR:OH	1:1:286:ASP:OD2	1.99	0.79
1:O:286:ASP:OD2	1:P:390:TYR:OH	1.99	0.78
1:N:358:ASN:CA	1:m:389:GLU:OE1	2.31	0.78
1:X:358:ASN:CA	1:Y:389:GLU:OE1	2.32	0.78
1:T:389:GLU:OE1	1:i:358:ASN:CA	2.31	0.78
1:o:358:ASN:CA	1:7:389:GLU:OE1	2.32	0.77
1:K:389:GLU:OE1	1:7:358:ASN:CA	2.31	0.77
1:Y:358:ASN:CA	1:4:389:GLU:OE1	2.31	0.77
1:f:389:GLU:OE1	1:z:358:ASN:CA	2.33	0.77
1:j:358:ASN:CA	1:x:389:GLU:OE1	2.31	0.77
1:j:389:GLU:OE1	1:l:358:ASN:CA	2.32	0.77
1:L:358:ASN:CA	1:b:389:GLU:OE1	2.33	0.77
1:A:358:ASN:CA	1:E:389:GLU:OE1	2.33	0.77
1:D:389:GLU:OE1	1:E:358:ASN:CA	2.33	0.77
1:k:389:GLU:OE1	1:w:358:ASN:CA	2.33	0.77
1:X:389:GLU:OE1	1:f:358:ASN:CA	2.33	0.77
1:b:358:ASN:CA	1:o:389:GLU:OE1	2.33	0.77
1:v:358:ASN:CA	1:w:389:GLU:OE1	2.33	0.77
1:F:358:ASN:CA	1:G:389:GLU:OE1	2.33	0.77
1:Z:389:GLU:OE1	1:a:358:ASN:CA	2.33	0.77
1:t:389:GLU:OE1	1:y:358:ASN:CA	2.33	0.77
1:u:389:GLU:OE1	1:5:358:ASN:CA	2.33	0.77
1:3:358:ASN:CA	1:8:389:GLU:OE1	2.33	0.77
1:H:358:ASN:CA	1:I:389:GLU:OE1	2.33	0.77
1:M:358:ASN:CA	1:N:389:GLU:OE1	2.32	0.77
1:O:358:ASN:CA	1:P:389:GLU:OE1	2.33	0.77
1:h:358:ASN:CA	1:i:389:GLU:OE1	2.32	0.76
1:6:582:GLN:OE1	1:7:480:GLN:NE2	2.18	0.76
1:B:389:GLU:OE1	1:C:358:ASN:CA	2.33	0.76
1:U:358:ASN:CA	1:e:389:GLU:OE1	2.33	0.76
1:W:582:GLN:OE1	1:Y:480:GLN:NE2	2.18	0.76
1:c:389:GLU:OE1	1:s:358:ASN:CA	2.33	0.76
1:i:480:GLN:NE2	1:k:582:GLN:OE1	2.18	0.76
1:n:389:GLU:OE1	1:r:358:ASN:CA	2.33	0.76
1:D:582:GLN:OE1	1:N:480:GLN:NE2	2.18	0.76
1:S:358:ASN:CA	1:d:389:GLU:OE1	2.33	0.76
1:g:358:ASN:CA	1:l:389:GLU:OE1	2.33	0.76
1:Q:358:ASN:CA	1:S:389:GLU:OE1	2.33	0.76
1:p:358:ASN:CA	1:q:389:GLU:OE1	2.33	0.76
1:R:389:GLU:OE1	1:V:358:ASN:CA	2.33	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:389:GLU:OE1	1:x:358:ASN:CA	2.33	0.76
1:T:358:ASN:CA	1:U:389:GLU:OE1	2.33	0.76
1:p:389:GLU:OE1	1:6:358:ASN:CA	2.33	0.76
1:v:389:GLU:OE1	1:1:358:ASN:CA	2.33	0.76
1:V:389:GLU:OE1	1:W:358:ASN:CA	2.33	0.76
1:m:358:ASN:CA	1:s:389:GLU:OE1	2.33	0.76
1:O:389:GLU:OE1	1:d:358:ASN:CA	2.33	0.76
1:l:389:GLU:OE1	1:n:358:ASN:CA	2.33	0.76
1:F:389:GLU:OE1	1:R:358:ASN:CA	2.33	0.75
1:P:358:ASN:CA	1:Q:389:GLU:OE1	2.33	0.75
1:q:358:ASN:CA	1:y:389:GLU:OE1	2.33	0.75
1:C:389:GLU:OE1	1:D:358:ASN:CA	2.33	0.75
1:I:358:ASN:CA	1:J:389:GLU:OE1	2.33	0.75
1:g:389:GLU:OE1	1:k:358:ASN:CA	2.33	0.75
1:G:358:ASN:CA	1:W:389:GLU:OE1	2.33	0.75
1:u:358:ASN:CA	1:2:389:GLU:OE1	2.33	0.75
1:H:389:GLU:OE1	1:Z:358:ASN:CA	2.33	0.75
1:2:358:ASN:CA	1:3:389:GLU:OE1	2.33	0.75
1:J:358:ASN:CA	1:a:389:GLU:OE1	2.33	0.75
1:t:358:ASN:CA	1:6:389:GLU:OE1	2.33	0.75
1:A:389:GLU:OE1	1:B:358:ASN:CA	2.33	0.75
1:5:389:GLU:OE1	1:8:358:ASN:CA	2.33	0.75
1:K:358:ASN:CA	1:L:389:GLU:OE1	2.33	0.74
1:i:582:GLN:OE1	1:j:480:GLN:NE2	2.20	0.74
1:M:389:GLU:OE1	1:c:358:ASN:CA	2.33	0.74
1:e:358:ASN:CA	1:h:389:GLU:OE1	2.33	0.74
1:z:389:GLU:OE1	1:4:358:ASN:CA	2.33	0.74
1:i:578:ALA:H	1:j:505:THR:HG22	1.53	0.74
1:6:578:ALA:H	1:7:505:THR:HG22	1.53	0.74
1:c:578:ALA:H	1:o:505:THR:HG22	1.53	0.74
1:W:578:ALA:H	1:Y:505:THR:HG22	1.53	0.74
1:X:505:THR:HG22	1:e:578:ALA:H	1.53	0.74
1:F:480:GLN:NE2	1:Q:582:GLN:OE1	2.22	0.73
1:R:480:GLN:NE2	1:U:582:GLN:OE1	2.21	0.73
1:Z:480:GLN:NE2	1:3:582:GLN:OE1	2.21	0.73
1:x:582:GLN:OE1	1:y:480:GLN:NE2	2.21	0.73
1:D:480:GLN:NE2	1:P:582:GLN:OE1	2.21	0.73
1:M:480:GLN:NE2	1:b:582:GLN:OE1	2.21	0.73
1:O:480:GLN:NE2	1:n:582:GLN:OE1	2.21	0.73
1:V:582:GLN:OE1	1:e:480:GLN:NE2	2.21	0.73
1:f:582:GLN:OE1	1:h:480:GLN:NE2	2.21	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:480:GLN:NE2	1:s:582:GLN:OE1	2.21	0.73
1:D:578:ALA:H	1:N:505:THR:HG22	1.53	0.73
1:J:582:GLN:OE1	1:L:480:GLN:NE2	2.21	0.73
1:O:582:GLN:OE1	1:m:480:GLN:NE2	2.21	0.73
1:R:505:THR:HG22	1:U:578:ALA:H	1.54	0.73
1:a:582:GLN:OE1	1:8:480:GLN:NE2	2.21	0.73
1:c:480:GLN:NE2	1:p:582:GLN:OE1	2.21	0.73
1:d:582:GLN:OE1	1:l:480:GLN:NE2	2.21	0.73
1:i:505:THR:HG22	1:k:578:ALA:H	1.53	0.73
1:C:582:GLN:OE1	1:b:480:GLN:NE2	2.21	0.73
1:E:578:ALA:H	1:Q:505:THR:HG22	1.54	0.73
1:M:505:THR:HG22	1:b:578:ALA:H	1.53	0.73
1:T:582:GLN:OE1	1:d:480:GLN:NE2	2.22	0.73
1:d:334:PHE:CZ	1:d:388:LEU:HD23	2.24	0.73
1:f:480:GLN:NE2	1:g:582:GLN:OE1	2.21	0.73
1:f:578:ALA:H	1:h:505:THR:HG22	1.53	0.73
1:m:582:GLN:OE1	1:n:480:GLN:NE2	2.22	0.73
1:q:505:THR:HG22	1:s:578:ALA:H	1.54	0.73
1:t:505:THR:HG22	1:v:578:ALA:H	1.53	0.73
1:z:480:GLN:NE2	1:2:582:GLN:OE1	2.22	0.73
1:A:578:ALA:H	1:G:505:THR:HG22	1.53	0.73
1:F:505:THR:HG22	1:Q:578:ALA:H	1.54	0.73
1:H:582:GLN:OE1	1:W:480:GLN:NE2	2.21	0.73
1:O:505:THR:HG22	1:n:578:ALA:H	1.53	0.73
1:R:582:GLN:OE1	1:S:480:GLN:NE2	2.21	0.73
1:T:480:GLN:NE2	1:l:582:GLN:OE1	2.21	0.73
1:V:334:PHE:CZ	1:V:388:LEU:HD23	2.24	0.73
1:c:334:PHE:CZ	1:c:388:LEU:HD23	2.24	0.73
1:d:578:ALA:H	1:l:505:THR:HG22	1.53	0.73
1:p:334:PHE:CZ	1:p:388:LEU:HD23	2.24	0.73
1:q:582:GLN:OE1	1:r:480:GLN:NE2	2.21	0.73
1:z:582:GLN:OE1	1:l:480:GLN:NE2	2.21	0.73
1:C:480:GLN:NE2	1:M:582:GLN:OE1	2.21	0.73
1:e:334:PHE:CZ	1:e:388:LEU:HD23	2.24	0.73
1:n:334:PHE:CZ	1:n:388:LEU:HD23	2.24	0.73
1:w:578:ALA:H	1:x:505:THR:HG22	1.54	0.73
1:x:578:ALA:H	1:y:505:THR:HG22	1.54	0.73
1:z:578:ALA:H	1:l:505:THR:HG22	1.53	0.73
1:5:582:GLN:OE1	1:6:480:GLN:NE2	2.21	0.73
1:B:505:THR:HG22	1:L:578:ALA:H	1.54	0.73
1:J:578:ALA:H	1:L:505:THR:HG22	1.54	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:334:PHE:CZ	1:L:388:LEU:HD23	2.24	0.73
1:Z:274:ASP:OD2	1:Z:352:SER:OG	2.07	0.73
1:Z:582:GLN:OE1	1:4:480:GLN:NE2	2.21	0.73
1:8:274:ASP:OD2	1:8:352:SER:OG	2.07	0.73
1:K:480:GLN:NE2	1:8:582:GLN:OE1	2.21	0.73
1:N:578:ALA:H	1:P:505:THR:HG22	1.54	0.73
1:Z:505:THR:HG22	1:3:578:ALA:H	1.53	0.73
1:g:480:GLN:NE2	1:h:582:GLN:OE1	2.21	0.73
1:o:334:PHE:CZ	1:o:388:LEU:HD23	2.24	0.73
1:u:582:GLN:OE1	1:v:480:GLN:NE2	2.22	0.73
1:z:334:PHE:CZ	1:z:388:LEU:HD23	2.24	0.73
1:3:480:GLN:NE2	1:4:582:GLN:OE1	2.22	0.73
1:5:578:ALA:H	1:6:505:THR:HG22	1.54	0.73
1:B:480:GLN:NE2	1:L:582:GLN:OE1	2.21	0.73
1:H:480:GLN:NE2	1:Y:582:GLN:OE1	2.22	0.73
1:H:578:ALA:H	1:W:505:THR:HG22	1.54	0.73
1:J:334:PHE:CZ	1:J:388:LEU:HD23	2.24	0.73
1:K:582:GLN:OE1	1:a:480:GLN:NE2	2.22	0.73
1:T:578:ALA:H	1:d:505:THR:HG22	1.54	0.73
1:X:334:PHE:CZ	1:X:388:LEU:HD23	2.24	0.73
1:a:578:ALA:H	1:8:505:THR:HG22	1.53	0.73
1:n:274:ASP:OD2	1:n:352:SER:OG	2.07	0.73
1:s:334:PHE:CZ	1:s:388:LEU:HD23	2.24	0.73
1:w:563:ILE:HD12	1:w:567:ASN:HD22	1.54	0.73
1:z:505:THR:HG22	1:2:578:ALA:H	1.54	0.73
1:2:334:PHE:CZ	1:2:388:LEU:HD23	2.24	0.73
1:A:480:GLN:NE2	1:I:582:GLN:OE1	2.22	0.73
1:E:563:ILE:HD12	1:E:567:ASN:HD22	1.54	0.73
1:H:505:THR:HG22	1:Y:578:ALA:H	1.54	0.73
1:J:563:ILE:HD12	1:J:567:ASN:HD22	1.54	0.73
1:S:582:GLN:OE1	1:U:480:GLN:NE2	2.21	0.73
1:U:334:PHE:CZ	1:U:388:LEU:HD23	2.24	0.73
1:V:505:THR:HG22	1:X:578:ALA:H	1.54	0.73
1:d:274:ASP:OD2	1:d:352:SER:OG	2.07	0.73
1:m:578:ALA:H	1:n:505:THR:HG22	1.54	0.73
1:n:563:ILE:HD12	1:n:567:ASN:HD22	1.54	0.73
1:2:563:ILE:HD12	1:2:567:ASN:HD22	1.54	0.73
1:5:480:GLN:NE2	1:7:582:GLN:OE1	2.22	0.73
1:5:505:THR:HG22	1:7:578:ALA:H	1.54	0.73
1:A:582:GLN:OE1	1:G:480:GLN:NE2	2.21	0.72
1:D:274:ASP:OD2	1:D:352:SER:OG	2.07	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:505:THR:HG22	1:F:578:ALA:H	1.53	0.72
1:E:582:GLN:OE1	1:Q:480:GLN:NE2	2.21	0.72
1:K:563:ILE:HD12	1:K:567:ASN:HD22	1.54	0.72
1:P:563:ILE:HD12	1:P:567:ASN:HD22	1.54	0.72
1:a:334:PHE:CZ	1:a:388:LEU:HD23	2.24	0.72
1:d:563:ILE:HD12	1:d:567:ASN:HD22	1.54	0.72
1:h:563:ILE:HD12	1:h:567:ASN:HD22	1.54	0.72
1:j:563:ILE:HD12	1:j:567:ASN:HD22	1.54	0.72
1:j:582:GLN:OE1	1:k:480:GLN:NE2	2.22	0.72
1:o:578:ALA:H	1:p:505:THR:HG22	1.54	0.72
1:r:582:GLN:OE1	1:s:480:GLN:NE2	2.21	0.72
1:1:582:GLN:OE1	1:2:480:GLN:NE2	2.21	0.72
1:3:505:THR:HG22	1:4:578:ALA:H	1.54	0.72
1:4:563:ILE:HD12	1:4:567:ASN:HD22	1.54	0.72
1:B:334:PHE:CZ	1:B:388:LEU:HD23	2.24	0.72
1:M:563:ILE:HD12	1:M:567:ASN:HD22	1.54	0.72
1:V:480:GLN:NE2	1:X:582:GLN:OE1	2.21	0.72
1:e:563:ILE:HD12	1:e:567:ASN:HD22	1.55	0.72
1:j:274:ASP:OD2	1:j:352:SER:OG	2.07	0.72
1:p:563:ILE:HD12	1:p:567:ASN:HD22	1.54	0.72
1:t:480:GLN:NE2	1:v:582:GLN:OE1	2.21	0.72
1:3:334:PHE:CZ	1:3:388:LEU:HD23	2.24	0.72
1:B:582:GLN:OE1	1:J:480:GLN:NE2	2.21	0.72
1:K:578:ALA:H	1:a:505:THR:HG22	1.54	0.72
1:V:563:ILE:HD12	1:V:567:ASN:HD22	1.54	0.72
1:V:578:ALA:H	1:e:505:THR:HG22	1.54	0.72
1:W:563:ILE:HD12	1:W:567:ASN:HD22	1.54	0.72
1:b:274:ASP:OD2	1:b:352:SER:OG	2.07	0.72
1:c:563:ILE:HD12	1:c:567:ASN:HD22	1.55	0.72
1:f:274:ASP:OD2	1:f:352:SER:OG	2.07	0.72
1:w:505:THR:HG22	1:y:578:ALA:H	1.53	0.72
1:w:582:GLN:OE1	1:x:480:GLN:NE2	2.21	0.72
1:A:563:ILE:HD12	1:A:567:ASN:HD22	1.54	0.72
1:C:563:ILE:HD12	1:C:567:ASN:HD22	1.54	0.72
1:P:274:ASP:OD2	1:P:352:SER:OG	2.07	0.72
1:o:582:GLN:OE1	1:p:480:GLN:NE2	2.21	0.72
1:s:563:ILE:HD12	1:s:567:ASN:HD22	1.54	0.72
1:1:334:PHE:CZ	1:1:388:LEU:HD23	2.24	0.72
1:2:274:ASP:OD2	1:2:352:SER:OG	2.07	0.72
1:6:563:ILE:HD12	1:6:567:ASN:HD22	1.54	0.72
1:J:274:ASP:OD2	1:J:352:SER:OG	2.07	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:563:ILE:HD12	1:L:567:ASN:HD22	1.54	0.72
1:U:563:ILE:HD12	1:U:567:ASN:HD22	1.54	0.72
1:X:480:GLN:NE2	1:e:582:GLN:OE1	2.21	0.72
1:c:505:THR:HG22	1:p:578:ALA:H	1.54	0.72
1:c:582:GLN:OE1	1:o:480:GLN:NE2	2.21	0.72
1:g:563:ILE:HD12	1:g:567:ASN:HD22	1.54	0.72
1:w:274:ASP:OD2	1:w:352:SER:OG	2.07	0.72
1:z:563:ILE:HD12	1:z:567:ASN:HD22	1.54	0.72
1:N:582:GLN:OE1	1:P:480:GLN:NE2	2.22	0.72
1:v:563:ILE:HD12	1:v:567:ASN:HD22	1.54	0.72
1:A:505:THR:HG22	1:I:578:ALA:H	1.54	0.72
1:C:578:ALA:H	1:b:505:THR:HG22	1.54	0.72
1:E:274:ASP:OD2	1:E:352:SER:OG	2.07	0.72
1:G:578:ALA:H	1:I:505:THR:HG22	1.54	0.72
1:T:563:ILE:HD12	1:T:567:ASN:HD22	1.54	0.72
1:Y:563:ILE:HD12	1:Y:567:ASN:HD22	1.54	0.72
1:m:563:ILE:HD12	1:m:567:ASN:HD22	1.54	0.72
1:t:578:ALA:H	1:u:505:THR:HG22	1.54	0.72
1:7:563:ILE:HD12	1:7:567:ASN:HD22	1.54	0.72
1:E:480:GLN:NE2	1:F:582:GLN:OE1	2.21	0.72
1:f:505:THR:HG22	1:g:578:ALA:H	1.54	0.72
1:o:563:ILE:HD12	1:o:567:ASN:HD22	1.54	0.72
1:q:578:ALA:H	1:r:505:THR:HG22	1.54	0.72
1:r:274:ASP:OD2	1:r:352:SER:OG	2.07	0.72
1:u:578:ALA:H	1:v:505:THR:HG22	1.54	0.72
1:w:480:GLN:NE2	1:y:582:GLN:OE1	2.21	0.72
1:H:334:PHE:CZ	1:H:388:LEU:HD23	2.24	0.72
1:M:274:ASP:OD2	1:M:352:SER:OG	2.07	0.72
1:g:505:THR:HG22	1:h:578:ALA:H	1.54	0.72
1:h:274:ASP:OD2	1:h:352:SER:OG	2.07	0.72
1:t:582:GLN:OE1	1:u:480:GLN:NE2	2.21	0.72
1:x:274:ASP:OD2	1:x:352:SER:OG	2.07	0.72
1:5:334:PHE:CZ	1:5:388:LEU:HD23	2.24	0.72
1:G:582:GLN:OE1	1:I:480:GLN:NE2	2.21	0.72
1:O:563:ILE:HD12	1:O:567:ASN:HD22	1.54	0.72
1:R:578:ALA:H	1:S:505:THR:HG22	1.54	0.72
1:S:274:ASP:OD2	1:S:352:SER:OG	2.07	0.72
1:X:563:ILE:HD12	1:X:567:ASN:HD22	1.54	0.72
1:C:505:THR:HG22	1:M:578:ALA:H	1.54	0.71
1:Q:274:ASP:OD2	1:Q:352:SER:OG	2.07	0.71
1:U:274:ASP:OD2	1:U:352:SER:OG	2.07	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:334:PHE:CZ	1:b:388:LEU:HD23	2.24	0.71
1:f:334:PHE:CZ	1:f:388:LEU:HD23	2.24	0.71
1:f:563:ILE:HD12	1:f:567:ASN:HD22	1.55	0.71
1:k:563:ILE:HD12	1:k:567:ASN:HD22	1.54	0.71
1:l:563:ILE:HD12	1:l:567:ASN:HD22	1.54	0.71
1:s:274:ASP:OD2	1:s:352:SER:OG	2.07	0.71
1:Q:563:ILE:HD12	1:Q:567:ASN:HD22	1.54	0.71
1:b:563:ILE:HD12	1:b:567:ASN:HD22	1.55	0.71
1:x:563:ILE:HD12	1:x:567:ASN:HD22	1.54	0.71
1:8:563:ILE:HD12	1:8:567:ASN:HD22	1.54	0.71
1:D:563:ILE:HD12	1:D:567:ASN:HD22	1.54	0.71
1:q:274:ASP:OD2	1:q:352:SER:OG	2.07	0.71
1:4:731:ASN:OD1	1:4:732:HIS:N	2.24	0.71
1:7:334:PHE:CZ	1:7:388:LEU:HD23	2.24	0.71
1:I:731:ASN:OD1	1:I:732:HIS:N	2.24	0.71
1:J:731:ASN:OD1	1:J:732:HIS:N	2.24	0.71
1:K:731:ASN:OD1	1:K:732:HIS:N	2.24	0.71
1:L:731:ASN:OD1	1:L:732:HIS:N	2.24	0.71
1:R:274:ASP:OD2	1:R:352:SER:OG	2.07	0.71
1:S:334:PHE:CZ	1:S:388:LEU:HD23	2.24	0.71
1:Y:334:PHE:CZ	1:Y:388:LEU:HD23	2.24	0.71
1:Z:563:ILE:HD12	1:Z:567:ASN:HD22	1.54	0.71
1:t:274:ASP:OD2	1:t:352:SER:OG	2.07	0.71
1:z:731:ASN:OD1	1:z:732:HIS:N	2.24	0.71
1:2:731:ASN:OD1	1:2:732:HIS:N	2.24	0.71
1:C:731:ASN:OD1	1:C:732:HIS:N	2.24	0.71
1:F:334:PHE:CZ	1:F:388:LEU:HD23	2.24	0.71
1:g:731:ASN:OD1	1:g:732:HIS:N	2.24	0.71
1:q:334:PHE:CZ	1:q:388:LEU:HD23	2.24	0.71
1:r:334:PHE:CZ	1:r:388:LEU:HD23	2.24	0.71
1:u:334:PHE:CZ	1:u:388:LEU:HD23	2.24	0.71
1:u:731:ASN:OD1	1:u:732:HIS:N	2.24	0.71
1:y:334:PHE:CZ	1:y:388:LEU:HD23	2.24	0.71
1:5:563:ILE:HD12	1:5:567:ASN:HD22	1.54	0.71
1:C:274:ASP:OD2	1:C:352:SER:OG	2.07	0.71
1:D:505:THR:HG22	1:P:578:ALA:H	1.54	0.71
1:E:334:PHE:CZ	1:E:388:LEU:HD23	2.24	0.71
1:G:274:ASP:OD2	1:G:352:SER:OG	2.07	0.71
1:H:563:ILE:HD12	1:H:567:ASN:HD22	1.54	0.71
1:N:563:ILE:HD12	1:N:567:ASN:HD22	1.54	0.71
1:S:563:ILE:HD12	1:S:567:ASN:HD22	1.54	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:505:THR:HG22	1:l:578:ALA:H	1.54	0.71
1:a:731:ASN:OD1	1:a:732:HIS:N	2.24	0.71
1:g:274:ASP:OD2	1:g:352:SER:OG	2.07	0.71
1:i:563:ILE:HD12	1:i:567:ASN:HD22	1.54	0.71
1:i:731:ASN:OD1	1:i:732:HIS:N	2.24	0.71
1:w:334:PHE:CZ	1:w:388:LEU:HD23	2.24	0.71
1:x:334:PHE:CZ	1:x:388:LEU:HD23	2.24	0.71
1:B:563:ILE:HD12	1:B:567:ASN:HD22	1.54	0.71
1:D:731:ASN:OD1	1:D:732:HIS:N	2.24	0.71
1:F:563:ILE:HD12	1:F:567:ASN:HD22	1.54	0.71
1:F:731:ASN:OD1	1:F:732:HIS:N	2.24	0.71
1:K:505:THR:HG22	1:8:578:ALA:H	1.54	0.71
1:O:578:ALA:H	1:m:505:THR:HG22	1.54	0.71
1:R:731:ASN:OD1	1:R:732:HIS:N	2.24	0.71
1:k:731:ASN:OD1	1:k:732:HIS:N	2.24	0.71
1:q:731:ASN:OD1	1:q:732:HIS:N	2.24	0.71
1:y:731:ASN:OD1	1:y:732:HIS:N	2.24	0.71
1:3:731:ASN:OD1	1:3:732:HIS:N	2.24	0.71
1:H:731:ASN:OD1	1:H:732:HIS:N	2.24	0.71
1:I:334:PHE:CZ	1:I:388:LEU:HD23	2.24	0.71
1:W:334:PHE:CZ	1:W:388:LEU:HD23	2.24	0.71
1:i:334:PHE:CZ	1:i:388:LEU:HD23	2.24	0.71
1:j:578:ALA:H	1:k:505:THR:HG22	1.54	0.71
1:y:563:ILE:HD12	1:y:567:ASN:HD22	1.54	0.71
1:1:578:ALA:H	1:2:505:THR:HG22	1.54	0.71
1:5:731:ASN:OD1	1:5:732:HIS:N	2.24	0.71
1:B:578:ALA:H	1:J:505:THR:HG22	1.54	0.71
1:K:334:PHE:CZ	1:K:388:LEU:HD23	2.24	0.71
1:Q:334:PHE:CZ	1:Q:388:LEU:HD23	2.24	0.71
1:m:334:PHE:CZ	1:m:388:LEU:HD23	2.24	0.71
1:r:563:ILE:HD12	1:r:567:ASN:HD22	1.54	0.71
1:r:578:ALA:H	1:s:505:THR:HG22	1.54	0.71
1:1:563:ILE:HD12	1:1:567:ASN:HD22	1.54	0.71
1:4:334:PHE:CZ	1:4:388:LEU:HD23	2.24	0.71
1:6:334:PHE:CZ	1:6:388:LEU:HD23	2.24	0.71
1:M:334:PHE:CZ	1:M:388:LEU:HD23	2.24	0.71
1:Z:578:ALA:H	1:4:505:THR:HG22	1.54	0.71
1:d:731:ASN:OD1	1:d:732:HIS:N	2.24	0.71
1:n:731:ASN:OD1	1:n:732:HIS:N	2.24	0.71
1:N:334:PHE:CZ	1:N:388:LEU:HD23	2.24	0.70
1:S:578:ALA:H	1:U:505:THR:HG22	1.54	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:PHE:CZ	1:T:388:LEU:HD23	2.24	0.70
1:c:274:ASP:OD2	1:c:352:SER:OG	2.07	0.70
1:h:334:PHE:CZ	1:h:388:LEU:HD23	2.24	0.70
1:G:731:ASN:OD1	1:G:732:HIS:N	2.24	0.70
1:a:563:ILE:HD12	1:a:567:ASN:HD22	1.54	0.70
1:h:731:ASN:OD1	1:h:732:HIS:N	2.24	0.70
1:t:731:ASN:OD1	1:t:732:HIS:N	2.24	0.70
1:M:731:ASN:OD1	1:M:732:HIS:N	2.24	0.70
1:R:563:ILE:HD12	1:R:567:ASN:HD22	1.54	0.70
1:V:274:ASP:OD2	1:V:352:SER:OG	2.07	0.70
1:e:274:ASP:OD2	1:e:352:SER:OG	2.07	0.70
1:p:274:ASP:OD2	1:p:352:SER:OG	2.07	0.70
1:u:274:ASP:OD2	1:u:352:SER:OG	2.07	0.70
1:G:563:ILE:HD12	1:G:567:ASN:HD22	1.54	0.70
1:b:731:ASN:OD1	1:b:732:HIS:N	2.24	0.70
1:f:731:ASN:OD1	1:f:732:HIS:N	2.24	0.70
1:3:563:ILE:HD12	1:3:567:ASN:HD22	1.54	0.70
1:4:274:ASP:OD2	1:4:352:SER:OG	2.07	0.70
1:e:731:ASN:OD1	1:e:732:HIS:N	2.24	0.70
1:q:563:ILE:HD12	1:q:567:ASN:HD22	1.54	0.70
1:I:274:ASP:OD2	1:I:352:SER:OG	2.07	0.70
1:X:274:ASP:OD2	1:X:352:SER:OG	2.07	0.70
1:a:274:ASP:OD2	1:a:352:SER:OG	2.07	0.70
1:c:731:ASN:OD1	1:c:732:HIS:N	2.24	0.70
1:t:563:ILE:HD12	1:t:567:ASN:HD22	1.54	0.70
1:u:563:ILE:HD12	1:u:567:ASN:HD22	1.54	0.70
1:l:731:ASN:OD1	1:l:732:HIS:N	2.24	0.70
1:B:731:ASN:OD1	1:B:732:HIS:N	2.24	0.70
1:E:731:ASN:OD1	1:E:732:HIS:N	2.24	0.70
1:H:512:ARG:NH1	1:Y:424:ASP:OD2	2.25	0.70
1:i:424:ASP:OD2	1:j:512:ARG:NH1	2.25	0.70
1:3:274:ASP:OD2	1:3:352:SER:OG	2.07	0.70
1:5:512:ARG:NH1	1:7:424:ASP:OD2	2.25	0.70
1:I:563:ILE:HD12	1:I:567:ASN:HD22	1.54	0.70
1:Q:731:ASN:OD1	1:Q:732:HIS:N	2.24	0.70
1:V:731:ASN:OD1	1:V:732:HIS:N	2.24	0.70
1:j:334:PHE:CZ	1:j:388:LEU:HD23	2.24	0.70
1:o:274:ASP:OD2	1:o:352:SER:OG	2.07	0.70
1:w:731:ASN:OD1	1:w:732:HIS:N	2.24	0.70
1:x:731:ASN:OD1	1:x:732:HIS:N	2.24	0.70
1:5:274:ASP:OD2	1:5:352:SER:OG	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:424:ASP:OD2	1:P:512:ARG:NH1	2.25	0.70
1:p:731:ASN:OD1	1:p:732:HIS:N	2.24	0.70
1:v:274:ASP:OD2	1:v:352:SER:OG	2.07	0.70
1:P:334:PHE:CZ	1:P:388:LEU:HD23	2.24	0.69
1:Z:731:ASN:OD1	1:Z:732:HIS:N	2.24	0.69
1:6:274:ASP:OD2	1:6:352:SER:OG	2.07	0.69
1:A:334:PHE:CZ	1:A:388:LEU:HD23	2.24	0.69
1:H:274:ASP:OD2	1:H:352:SER:OG	2.07	0.69
1:S:731:ASN:OD1	1:S:732:HIS:N	2.24	0.69
1:X:731:ASN:OD1	1:X:732:HIS:N	2.24	0.69
1:o:731:ASN:OD1	1:o:732:HIS:N	2.24	0.69
1:8:731:ASN:OD1	1:8:732:HIS:N	2.24	0.69
1:A:274:ASP:OD2	1:A:352:SER:OG	2.07	0.69
1:T:728:TYR:O	1:d:382:ARG:NH2	2.26	0.69
1:m:728:TYR:O	1:n:382:ARG:NH2	2.26	0.69
1:F:382:ARG:NH2	1:Q:728:TYR:O	2.26	0.69
1:U:731:ASN:OD1	1:U:732:HIS:N	2.24	0.69
1:W:274:ASP:OD2	1:W:352:SER:OG	2.07	0.69
1:Y:731:ASN:OD1	1:Y:732:HIS:N	2.24	0.69
1:Z:334:PHE:CZ	1:Z:388:LEU:HD23	2.24	0.69
1:r:731:ASN:OD1	1:r:732:HIS:N	2.24	0.69
1:v:334:PHE:CZ	1:v:388:LEU:HD23	2.24	0.69
1:z:382:ARG:NH2	1:2:728:TYR:O	2.25	0.69
1:B:382:ARG:NH2	1:L:728:TYR:O	2.26	0.69
1:f:382:ARG:NH2	1:g:728:TYR:O	2.26	0.69
1:s:731:ASN:OD1	1:s:732:HIS:N	2.24	0.69
1:t:728:TYR:O	1:u:382:ARG:NH2	2.26	0.69
1:x:728:TYR:O	1:y:382:ARG:NH2	2.26	0.69
1:y:274:ASP:OD2	1:y:352:SER:OG	2.07	0.69
1:A:382:ARG:NH2	1:I:728:TYR:O	2.25	0.69
1:C:382:ARG:NH2	1:M:728:TYR:O	2.26	0.69
1:C:728:TYR:O	1:b:382:ARG:NH2	2.26	0.69
1:G:728:TYR:O	1:I:382:ARG:NH2	2.26	0.69
1:R:382:ARG:NH2	1:U:728:TYR:O	2.26	0.69
1:g:382:ARG:NH2	1:h:728:TYR:O	2.26	0.69
1:j:424:ASP:OD2	1:k:512:ARG:NH1	2.25	0.69
1:z:728:TYR:O	1:1:382:ARG:NH2	2.26	0.69
1:K:382:ARG:NH2	1:8:728:TYR:O	2.26	0.69
1:O:274:ASP:OD2	1:O:352:SER:OG	2.07	0.69
1:R:728:TYR:O	1:S:382:ARG:NH2	2.26	0.69
1:q:382:ARG:NH2	1:s:728:TYR:O	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:382:ARG:NH2	1:4:728:TYR:O	2.26	0.69
1:7:731:ASN:OD1	1:7:732:HIS:N	2.24	0.69
1:8:334:PHE:CZ	1:8:388:LEU:HD23	2.24	0.69
1:E:728:TYR:O	1:Q:382:ARG:NH2	2.26	0.69
1:F:274:ASP:OD2	1:F:352:SER:OG	2.07	0.69
1:K:728:TYR:O	1:a:382:ARG:NH2	2.26	0.69
1:O:728:TYR:O	1:m:382:ARG:NH2	2.26	0.69
1:R:334:PHE:CZ	1:R:388:LEU:HD23	2.24	0.69
1:T:274:ASP:OD2	1:T:352:SER:OG	2.07	0.69
1:T:382:ARG:NH2	1:l:728:TYR:O	2.26	0.69
1:V:728:TYR:O	1:e:382:ARG:NH2	2.26	0.69
1:Z:728:TYR:O	1:4:382:ARG:NH2	2.26	0.69
1:c:382:ARG:NH2	1:p:728:TYR:O	2.26	0.69
1:l:274:ASP:OD2	1:l:352:SER:OG	2.07	0.69
1:q:728:TYR:O	1:r:382:ARG:NH2	2.26	0.69
1:u:728:TYR:O	1:v:382:ARG:NH2	2.26	0.69
1:w:728:TYR:O	1:x:382:ARG:NH2	2.25	0.69
1:6:731:ASN:OD1	1:6:732:HIS:N	2.24	0.69
1:B:728:TYR:O	1:J:382:ARG:NH2	2.26	0.69
1:D:382:ARG:NH2	1:P:728:TYR:O	2.26	0.69
1:J:728:TYR:O	1:L:382:ARG:NH2	2.26	0.69
1:L:325:ASN:ND2	1:b:328:THR:OG1	2.26	0.69
1:O:424:ASP:OD2	1:m:512:ARG:NH1	2.26	0.69
1:T:512:ARG:NH1	1:l:424:ASP:OD2	2.26	0.69
1:m:274:ASP:OD2	1:m:352:SER:OG	2.07	0.69
1:m:731:ASN:OD1	1:m:732:HIS:N	2.24	0.69
1:w:382:ARG:NH2	1:y:728:TYR:O	2.26	0.69
1:B:424:ASP:OD2	1:J:512:ARG:NH1	2.26	0.69
1:C:512:ARG:NH1	1:M:424:ASP:OD2	2.26	0.69
1:D:328:THR:OG1	1:E:325:ASN:ND2	2.26	0.69
1:E:382:ARG:NH2	1:F:728:TYR:O	2.26	0.69
1:K:274:ASP:OD2	1:K:352:SER:OG	2.07	0.69
1:W:731:ASN:OD1	1:W:732:HIS:N	2.24	0.69
1:f:328:THR:OG1	1:z:325:ASN:ND2	2.26	0.69
1:1:424:ASP:OD2	1:2:512:ARG:NH1	2.26	0.69
1:1:728:TYR:O	1:2:382:ARG:NH2	2.26	0.69
1:X:382:ARG:NH2	1:e:728:TYR:O	2.26	0.68
1:g:512:ARG:NH1	1:h:424:ASP:OD2	2.26	0.68
1:k:328:THR:OG1	1:w:325:ASN:ND2	2.26	0.68
1:A:728:TYR:O	1:G:382:ARG:NH2	2.26	0.68
1:G:424:ASP:OD2	1:I:512:ARG:NH1	2.26	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:731:ASN:OD1	1:T:732:HIS:N	2.24	0.68
1:c:728:TYR:O	1:o:382:ARG:NH2	2.26	0.68
1:l:334:PHE:CZ	1:l:388:LEU:HD23	2.24	0.68
1:t:424:ASP:OD2	1:u:512:ARG:NH1	2.26	0.68
1:H:728:TYR:O	1:W:382:ARG:NH2	2.26	0.68
1:N:325:ASN:ND2	1:m:328:THR:OG1	2.27	0.68
1:O:334:PHE:CZ	1:O:388:LEU:HD23	2.24	0.68
1:i:512:ARG:NH1	1:k:424:ASP:OD2	2.26	0.68
1:5:728:TYR:O	1:6:382:ARG:NH2	2.26	0.68
1:A:512:ARG:NH1	1:I:424:ASP:OD2	2.26	0.68
1:D:424:ASP:OD2	1:N:512:ARG:NH1	2.26	0.68
1:K:424:ASP:OD2	1:a:512:ARG:NH1	2.26	0.68
1:T:328:THR:OG1	1:i:325:ASN:ND2	2.27	0.68
1:V:382:ARG:NH2	1:X:728:TYR:O	2.26	0.68
1:f:728:TYR:O	1:h:382:ARG:NH2	2.26	0.68
1:n:328:THR:OG1	1:r:325:ASN:ND2	2.26	0.68
1:o:728:TYR:O	1:p:382:ARG:NH2	2.26	0.68
1:E:512:ARG:NH1	1:F:424:ASP:OD2	2.27	0.68
1:G:334:PHE:CZ	1:G:388:LEU:HD23	2.24	0.68
1:M:328:THR:OG1	1:c:325:ASN:ND2	2.27	0.68
1:M:382:ARG:NH2	1:b:728:TYR:O	2.26	0.68
1:O:382:ARG:NH2	1:n:728:TYR:O	2.26	0.68
1:S:325:ASN:ND2	1:d:328:THR:OG1	2.26	0.68
1:t:334:PHE:CZ	1:t:388:LEU:HD23	2.24	0.68
1:t:382:ARG:NH2	1:v:728:TYR:O	2.26	0.68
1:u:424:ASP:OD2	1:v:512:ARG:NH1	2.26	0.68
1:D:512:ARG:NH1	1:P:424:ASP:OD2	2.27	0.68
1:O:512:ARG:NH1	1:n:424:ASP:OD2	2.27	0.68
1:c:512:ARG:NH1	1:p:424:ASP:OD2	2.26	0.68
1:d:424:ASP:OD2	1:l:512:ARG:NH1	2.27	0.68
1:e:325:ASN:ND2	1:h:328:THR:OG1	2.27	0.68
1:j:731:ASN:OD1	1:j:732:HIS:N	2.24	0.68
1:v:731:ASN:OD1	1:v:732:HIS:N	2.24	0.68
1:w:512:ARG:NH1	1:y:424:ASP:OD2	2.27	0.68
1:3:512:ARG:NH1	1:4:424:ASP:OD2	2.26	0.68
1:L:274:ASP:OD2	1:L:352:SER:OG	2.07	0.68
1:T:424:ASP:OD2	1:d:512:ARG:NH1	2.26	0.68
1:V:424:ASP:OD2	1:e:512:ARG:NH1	2.26	0.68
1:d:728:TYR:O	1:l:382:ARG:NH2	2.26	0.68
1:G:325:ASN:ND2	1:W:328:THR:OG1	2.26	0.68
1:H:325:ASN:ND2	1:I:328:THR:OG1	2.27	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:325:ASN:ND2	1:U:328:THR:OG1	2.26	0.68
1:m:424:ASP:OD2	1:n:512:ARG:NH1	2.26	0.68
1:r:728:TYR:O	1:s:382:ARG:NH2	2.26	0.68
1:u:328:THR:OG1	1:5:325:ASN:ND2	2.27	0.68
1:z:274:ASP:OD2	1:z:352:SER:OG	2.07	0.68
1:A:731:ASN:OD1	1:A:732:HIS:N	2.24	0.68
1:P:731:ASN:OD1	1:P:732:HIS:N	2.24	0.68
1:V:328:THR:OG1	1:W:325:ASN:ND2	2.27	0.68
1:m:325:ASN:ND2	1:s:328:THR:OG1	2.26	0.68
1:t:325:ASN:ND2	1:6:328:THR:OG1	2.26	0.68
1:z:328:THR:OG1	1:4:325:ASN:ND2	2.26	0.68
1:A:424:ASP:OD2	1:G:512:ARG:NH1	2.26	0.68
1:F:512:ARG:NH1	1:Q:424:ASP:OD2	2.26	0.68
1:H:424:ASP:OD2	1:W:512:ARG:NH1	2.27	0.68
1:J:325:ASN:ND2	1:a:328:THR:OG1	2.26	0.68
1:K:325:ASN:ND2	1:L:328:THR:OG1	2.26	0.68
1:O:328:THR:OG1	1:d:325:ASN:ND2	2.27	0.68
1:R:328:THR:OG1	1:V:325:ASN:ND2	2.27	0.68
1:S:728:TYR:O	1:U:382:ARG:NH2	2.26	0.68
1:p:325:ASN:ND2	1:q:328:THR:OG1	2.27	0.68
1:p:328:THR:OG1	1:6:325:ASN:ND2	2.27	0.68
1:1:274:ASP:OD2	1:1:352:SER:OG	2.07	0.68
1:A:325:ASN:ND2	1:E:328:THR:OG1	2.27	0.67
1:B:512:ARG:NH1	1:L:424:ASP:OD2	2.26	0.67
1:O:325:ASN:ND2	1:P:328:THR:OG1	2.26	0.67
1:j:325:ASN:ND2	1:x:328:THR:OG1	2.26	0.67
1:q:424:ASP:OD2	1:r:512:ARG:NH1	2.26	0.67
1:5:328:THR:OG1	1:8:325:ASN:ND2	2.26	0.67
1:5:424:ASP:OD2	1:6:512:ARG:NH1	2.27	0.67
1:M:218:ALA:H	1:N:400:ASN:HD21	1.42	0.67
1:R:424:ASP:OD2	1:S:512:ARG:NH1	2.26	0.67
1:l:328:THR:OG1	1:n:325:ASN:ND2	2.27	0.67
1:l:731:ASN:OD1	1:l:732:HIS:N	2.24	0.67
1:v:328:THR:OG1	1:1:325:ASN:ND2	2.26	0.67
1:x:424:ASP:OD2	1:y:512:ARG:NH1	2.26	0.67
1:2:325:ASN:ND2	1:3:328:THR:OG1	2.26	0.67
1:5:382:ARG:NH2	1:7:728:TYR:O	2.27	0.67
1:B:274:ASP:OD2	1:B:352:SER:OG	2.07	0.67
1:H:328:THR:OG1	1:Z:325:ASN:ND2	2.26	0.67
1:c:328:THR:OG1	1:s:325:ASN:ND2	2.26	0.67
1:h:218:ALA:H	1:i:400:ASN:HD21	1.42	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:325:ASN:ND2	1:y:328:THR:OG1	2.26	0.67
1:t:512:ARG:NH1	1:v:424:ASP:OD2	2.27	0.67
1:v:325:ASN:ND2	1:w:328:THR:OG1	2.27	0.67
1:z:424:ASP:OD2	1:1:512:ARG:NH1	2.26	0.67
1:3:325:ASN:ND2	1:8:328:THR:OG1	2.27	0.67
1:N:731:ASN:OD1	1:N:732:HIS:N	2.24	0.67
1:u:325:ASN:ND2	1:2:328:THR:OG1	2.27	0.67
1:z:512:ARG:NH1	1:2:424:ASP:OD2	2.26	0.67
1:1:223:HIS:O	1:1:238:THR:OG1	2.12	0.67
1:B:223:HIS:O	1:B:238:THR:OG1	2.12	0.67
1:C:334:PHE:CZ	1:C:388:LEU:HD23	2.24	0.67
1:F:328:THR:OG1	1:R:325:ASN:ND2	2.26	0.67
1:H:382:ARG:NH2	1:Y:728:TYR:O	2.28	0.67
1:I:325:ASN:ND2	1:J:328:THR:OG1	2.27	0.67
1:J:424:ASP:OD2	1:L:512:ARG:NH1	2.26	0.67
1:K:328:THR:OG1	1:7:325:ASN:ND2	2.27	0.67
1:O:731:ASN:OD1	1:O:732:HIS:N	2.24	0.67
1:U:325:ASN:ND2	1:e:328:THR:OG1	2.26	0.67
1:Y:325:ASN:ND2	1:4:328:THR:OG1	2.27	0.67
1:Z:328:THR:OG1	1:a:325:ASN:ND2	2.27	0.67
1:Z:512:ARG:NH1	1:3:424:ASP:OD2	2.27	0.67
1:a:424:ASP:OD2	1:8:512:ARG:NH1	2.27	0.67
1:a:728:TYR:O	1:8:382:ARG:NH2	2.26	0.67
1:g:325:ASN:ND2	1:1:328:THR:OG1	2.27	0.67
1:i:274:ASP:OD2	1:i:352:SER:OG	2.07	0.67
1:B:328:THR:OG1	1:C:325:ASN:ND2	2.27	0.67
1:N:274:ASP:OD2	1:N:352:SER:OG	2.07	0.67
1:Z:382:ARG:NH2	1:3:728:TYR:O	2.26	0.67
1:b:325:ASN:ND2	1:o:328:THR:OG1	2.27	0.67
1:q:512:ARG:NH1	1:s:424:ASP:OD2	2.26	0.67
1:F:325:ASN:ND2	1:G:328:THR:OG1	2.27	0.67
1:N:728:TYR:O	1:P:382:ARG:NH2	2.27	0.67
1:X:512:ARG:NH1	1:e:424:ASP:OD2	2.27	0.67
1:w:424:ASP:OD2	1:x:512:ARG:NH1	2.26	0.67
1:D:334:PHE:CZ	1:D:388:LEU:HD23	2.24	0.67
1:X:328:THR:OG1	1:f:325:ASN:ND2	2.27	0.67
1:g:334:PHE:CZ	1:g:388:LEU:HD23	2.24	0.67
1:j:400:ASN:HD21	1:l:218:ALA:H	1.42	0.67
1:6:424:ASP:OD2	1:7:512:ARG:NH1	2.26	0.67
1:E:424:ASP:OD2	1:Q:512:ARG:NH1	2.26	0.67
1:W:424:ASP:OD2	1:Y:512:ARG:NH1	2.26	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:424:ASP:OD2	1:o:512:ARG:NH1	2.27	0.67
1:t:328:THR:OG1	1:y:325:ASN:ND2	2.27	0.67
1:A:328:THR:OG1	1:B:325:ASN:ND2	2.27	0.67
1:K:512:ARG:NH1	1:8:424:ASP:OD2	2.26	0.67
1:P:325:ASN:ND2	1:Q:328:THR:OG1	2.27	0.67
1:S:424:ASP:OD2	1:U:512:ARG:NH1	2.26	0.67
1:Z:424:ASP:OD2	1:4:512:ARG:NH1	2.26	0.66
1:j:728:TYR:O	1:k:382:ARG:NH2	2.27	0.66
1:k:334:PHE:CZ	1:k:388:LEU:HD23	2.24	0.66
1:r:328:THR:OG1	1:x:325:ASN:ND2	2.27	0.66
1:r:424:ASP:OD2	1:s:512:ARG:NH1	2.26	0.66
1:g:328:THR:OG1	1:k:325:ASN:ND2	2.27	0.66
1:k:274:ASP:OD2	1:k:352:SER:OG	2.07	0.66
1:C:328:THR:OG1	1:D:325:ASN:ND2	2.27	0.66
1:Q:325:ASN:ND2	1:S:328:THR:OG1	2.27	0.66
1:U:223:HIS:O	1:U:238:THR:OG1	2.12	0.66
1:h:325:ASN:ND2	1:i:328:THR:OG1	2.29	0.66
1:M:325:ASN:ND2	1:N:328:THR:OG1	2.29	0.66
1:f:512:ARG:NH1	1:g:424:ASP:OD2	2.26	0.66
1:s:223:HIS:O	1:s:238:THR:OG1	2.12	0.66
1:7:223:HIS:O	1:7:238:THR:OG1	2.12	0.66
1:C:424:ASP:OD2	1:b:512:ARG:NH1	2.26	0.66
1:k:223:HIS:O	1:k:238:THR:OG1	2.12	0.66
1:F:400:ASN:HD21	1:R:218:ALA:H	1.44	0.66
1:X:218:ALA:H	1:Y:400:ASN:HD21	1.42	0.66
1:n:223:HIS:O	1:n:238:THR:OG1	2.12	0.66
1:q:218:ALA:H	1:y:400:ASN:HD21	1.44	0.66
1:q:223:HIS:O	1:q:238:THR:OG1	2.12	0.66
1:R:223:HIS:O	1:R:238:THR:OG1	2.12	0.66
1:4:223:HIS:O	1:4:238:THR:OG1	2.12	0.66
1:D:223:HIS:O	1:D:238:THR:OG1	2.12	0.65
1:K:223:HIS:O	1:K:238:THR:OG1	2.12	0.65
1:S:223:HIS:O	1:S:238:THR:OG1	2.12	0.65
1:f:400:ASN:HD21	1:z:218:ALA:H	1.44	0.65
1:o:218:ALA:H	1:7:400:ASN:HD21	1.42	0.65
1:t:218:ALA:H	1:6:400:ASN:HD21	1.44	0.65
1:G:218:ALA:H	1:W:400:ASN:HD21	1.44	0.65
1:O:332:GLN:HE21	1:O:647:LYS:HD3	1.62	0.65
1:R:512:ARG:NH1	1:U:424:ASP:OD2	2.26	0.65
1:d:223:HIS:O	1:d:238:THR:OG1	2.12	0.65
1:n:332:GLN:HE21	1:n:647:LYS:HD3	1.62	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:223:HIS:O	1:r:238:THR:OG1	2.12	0.65
1:L:218:ALA:H	1:b:400:ASN:HD21	1.44	0.65
1:Q:332:GLN:HE21	1:Q:647:LYS:HD3	1.62	0.65
1:V:332:GLN:HE21	1:V:647:LYS:HD3	1.62	0.65
1:d:332:GLN:HE21	1:d:647:LYS:HD3	1.62	0.65
1:l:223:HIS:O	1:l:238:THR:OG1	2.12	0.65
1:l:332:GLN:HE21	1:l:647:LYS:HD3	1.62	0.65
1:p:332:GLN:HE21	1:p:647:LYS:HD3	1.62	0.65
1:x:332:GLN:HE21	1:x:647:LYS:HD3	1.62	0.65
1:z:400:ASN:HD21	1:4:218:ALA:H	1.45	0.65
1:5:332:GLN:HE21	1:5:647:LYS:HD3	1.62	0.65
1:H:332:GLN:HE21	1:H:647:LYS:HD3	1.62	0.65
1:K:218:ALA:H	1:L:400:ASN:HD21	1.45	0.65
1:P:218:ALA:H	1:Q:400:ASN:HD21	1.45	0.65
1:T:218:ALA:H	1:U:400:ASN:HD21	1.45	0.65
1:Z:400:ASN:HD21	1:a:218:ALA:H	1.45	0.65
1:3:218:ALA:H	1:8:400:ASN:HD21	1.45	0.65
1:D:406:TYR:OH	1:D:639:HIS:O	2.15	0.65
1:I:332:GLN:HE21	1:I:647:LYS:HD3	1.62	0.65
1:O:223:HIS:O	1:O:238:THR:OG1	2.12	0.65
1:X:325:ASN:ND2	1:Y:328:THR:OG1	2.29	0.65
1:Y:274:ASP:OD2	1:Y:352:SER:OG	2.07	0.65
1:b:218:ALA:H	1:o:400:ASN:HD21	1.45	0.65
1:m:218:ALA:H	1:s:400:ASN:HD21	1.45	0.65
1:v:400:ASN:HD21	1:1:218:ALA:H	1.44	0.65
1:7:274:ASP:OD2	1:7:352:SER:OG	2.07	0.65
1:8:406:TYR:OH	1:8:639:HIS:O	2.15	0.65
1:D:332:GLN:HE21	1:D:647:LYS:HD3	1.62	0.65
1:G:290:LEU:HD21	1:G:297:LEU:HD22	1.79	0.65
1:Z:406:TYR:OH	1:Z:639:HIS:O	2.15	0.65
1:k:332:GLN:HE21	1:k:647:LYS:HD3	1.62	0.65
1:k:406:TYR:OH	1:k:639:HIS:O	2.15	0.65
1:t:290:LEU:HD21	1:t:297:LEU:HD22	1.79	0.65
1:A:400:ASN:HD21	1:B:218:ALA:H	1.45	0.65
1:E:223:HIS:O	1:E:238:THR:OG1	2.12	0.65
1:H:218:ALA:H	1:I:400:ASN:HD21	1.45	0.65
1:I:223:HIS:O	1:I:238:THR:OG1	2.12	0.65
1:W:290:LEU:HD21	1:W:297:LEU:HD22	1.79	0.65
1:W:728:TYR:O	1:Y:382:ARG:NH2	2.30	0.65
1:b:406:TYR:OH	1:b:639:HIS:O	2.15	0.65
1:n:406:TYR:OH	1:n:639:HIS:O	2.15	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:406:TYR:OH	1:o:639:HIS:O	2.15	0.65
1:r:400:ASN:HD21	1:x:218:ALA:H	1.44	0.65
1:t:406:TYR:OH	1:t:639:HIS:O	2.15	0.65
1:u:223:HIS:O	1:u:238:THR:OG1	2.12	0.65
1:u:332:GLN:HE21	1:u:647:LYS:HD3	1.62	0.65
1:6:290:LEU:HD21	1:6:297:LEU:HD22	1.79	0.65
1:G:406:TYR:OH	1:G:639:HIS:O	2.15	0.65
1:J:332:GLN:HE21	1:J:647:LYS:HD3	1.62	0.65
1:Q:218:ALA:H	1:S:400:ASN:HD21	1.44	0.65
1:X:400:ASN:HD21	1:f:218:ALA:H	1.45	0.65
1:X:406:TYR:OH	1:X:639:HIS:O	2.15	0.65
1:Y:406:TYR:OH	1:Y:639:HIS:O	2.15	0.65
1:c:400:ASN:HD21	1:s:218:ALA:H	1.44	0.65
1:f:406:TYR:OH	1:f:639:HIS:O	2.15	0.65
1:o:325:ASN:ND2	1:7:328:THR:OG1	2.29	0.65
1:u:400:ASN:HD21	1:5:218:ALA:H	1.45	0.65
1:2:332:GLN:HE21	1:2:647:LYS:HD3	1.62	0.65
1:E:332:GLN:HE21	1:E:647:LYS:HD3	1.62	0.65
1:O:290:LEU:HD21	1:O:297:LEU:HD22	1.79	0.65
1:S:290:LEU:HD21	1:S:297:LEU:HD22	1.79	0.65
1:U:218:ALA:H	1:e:400:ASN:HD21	1.44	0.65
1:U:406:TYR:OH	1:U:639:HIS:O	2.15	0.65
1:d:406:TYR:OH	1:d:639:HIS:O	2.15	0.65
1:g:218:ALA:H	1:1:400:ASN:HD21	1.45	0.65
1:j:328:THR:OG1	1:l:325:ASN:ND2	2.30	0.65
1:s:406:TYR:OH	1:s:639:HIS:O	2.15	0.65
1:v:218:ALA:H	1:w:400:ASN:HD21	1.45	0.65
1:w:223:HIS:O	1:w:238:THR:OG1	2.12	0.65
1:2:406:TYR:OH	1:2:639:HIS:O	2.15	0.65
1:6:406:TYR:OH	1:6:639:HIS:O	2.15	0.65
1:6:728:TYR:O	1:7:382:ARG:NH2	2.30	0.65
1:7:406:TYR:OH	1:7:639:HIS:O	2.15	0.65
1:A:218:ALA:H	1:E:400:ASN:HD21	1.45	0.65
1:B:400:ASN:HD21	1:C:218:ALA:H	1.45	0.65
1:J:290:LEU:HD21	1:J:297:LEU:HD22	1.79	0.65
1:J:406:TYR:OH	1:J:639:HIS:O	2.15	0.65
1:W:406:TYR:OH	1:W:639:HIS:O	2.15	0.65
1:l:290:LEU:HD21	1:l:297:LEU:HD22	1.79	0.65
1:n:290:LEU:HD21	1:n:297:LEU:HD22	1.79	0.65
1:r:290:LEU:HD21	1:r:297:LEU:HD22	1.79	0.65
1:2:290:LEU:HD21	1:2:297:LEU:HD22	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:290:LEU:HD21	1:5:297:LEU:HD22	1.79	0.65
1:6:332:GLN:HE21	1:6:647:LYS:HD3	1.62	0.65
1:B:290:LEU:HD21	1:B:297:LEU:HD22	1.79	0.64
1:D:400:ASN:HD21	1:E:218:ALA:H	1.44	0.64
1:F:332:GLN:HE21	1:F:647:LYS:HD3	1.62	0.64
1:H:290:LEU:HD21	1:H:297:LEU:HD22	1.79	0.64
1:I:290:LEU:HD21	1:I:297:LEU:HD22	1.79	0.64
1:P:332:GLN:HE21	1:P:647:LYS:HD3	1.62	0.64
1:Z:332:GLN:HE21	1:Z:647:LYS:HD3	1.62	0.64
1:d:290:LEU:HD21	1:d:297:LEU:HD22	1.79	0.64
1:i:382:ARG:NH2	1:k:728:TYR:O	2.30	0.64
1:v:332:GLN:HE21	1:v:647:LYS:HD3	1.62	0.64
1:w:332:GLN:HE21	1:w:647:LYS:HD3	1.62	0.64
1:3:223:HIS:O	1:3:238:THR:OG1	2.12	0.64
1:R:400:ASN:HD21	1:V:218:ALA:H	1.45	0.64
1:W:332:GLN:HE21	1:W:647:LYS:HD3	1.62	0.64
1:j:290:LEU:HD21	1:j:297:LEU:HD22	1.79	0.64
1:j:406:TYR:OH	1:j:639:HIS:O	2.15	0.64
1:k:400:ASN:HD21	1:w:218:ALA:H	1.45	0.64
1:o:332:GLN:HE21	1:o:647:LYS:HD3	1.62	0.64
1:p:218:ALA:H	1:q:400:ASN:HD21	1.45	0.64
1:q:332:GLN:HE21	1:q:647:LYS:HD3	1.62	0.64
1:u:290:LEU:HD21	1:u:297:LEU:HD22	1.79	0.64
1:u:406:TYR:OH	1:u:639:HIS:O	2.15	0.64
1:y:332:GLN:HE21	1:y:647:LYS:HD3	1.62	0.64
1:1:290:LEU:HD21	1:1:297:LEU:HD22	1.79	0.64
1:3:332:GLN:HE21	1:3:647:LYS:HD3	1.62	0.64
1:6:223:HIS:O	1:6:238:THR:OG1	2.12	0.64
1:8:332:GLN:HE21	1:8:647:LYS:HD3	1.62	0.64
1:A:332:GLN:HE21	1:A:647:LYS:HD3	1.62	0.64
1:B:332:GLN:HE21	1:B:647:LYS:HD3	1.62	0.64
1:I:406:TYR:OH	1:I:639:HIS:O	2.15	0.64
1:P:290:LEU:HD21	1:P:297:LEU:HD22	1.79	0.64
1:R:332:GLN:HE21	1:R:647:LYS:HD3	1.62	0.64
1:W:223:HIS:O	1:W:238:THR:OG1	2.12	0.64
1:a:223:HIS:O	1:a:238:THR:OG1	2.12	0.64
1:i:332:GLN:HE21	1:i:647:LYS:HD3	1.62	0.64
1:j:332:GLN:HE21	1:j:647:LYS:HD3	1.62	0.64
1:l:406:TYR:OH	1:l:639:HIS:O	2.15	0.64
1:t:223:HIS:O	1:t:238:THR:OG1	2.12	0.64
1:D:728:TYR:O	1:N:382:ARG:NH2	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:HIS:O	1:L:238:THR:OG1	2.12	0.64
1:N:332:GLN:HE21	1:N:647:LYS:HD3	1.62	0.64
1:O:406:TYR:OH	1:O:639:HIS:O	2.15	0.64
1:P:406:TYR:OH	1:P:639:HIS:O	2.15	0.64
1:X:332:GLN:HE21	1:X:647:LYS:HD3	1.62	0.64
1:Z:290:LEU:HD21	1:Z:297:LEU:HD22	1.79	0.64
1:a:332:GLN:HE21	1:a:647:LYS:HD3	1.62	0.64
1:c:406:TYR:OH	1:c:639:HIS:O	2.15	0.64
1:e:406:TYR:OH	1:e:639:HIS:O	2.15	0.64
1:t:400:ASN:HD21	1:y:218:ALA:H	1.45	0.64
1:z:290:LEU:HD21	1:z:297:LEU:HD22	1.79	0.64
1:z:332:GLN:HE21	1:z:647:LYS:HD3	1.62	0.64
1:C:332:GLN:HE21	1:C:647:LYS:HD3	1.62	0.64
1:D:290:LEU:HD21	1:D:297:LEU:HD22	1.79	0.64
1:E:290:LEU:HD21	1:E:297:LEU:HD22	1.79	0.64
1:H:400:ASN:HD21	1:Z:218:ALA:H	1.45	0.64
1:J:223:HIS:O	1:J:238:THR:OG1	2.12	0.64
1:h:332:GLN:HE21	1:h:647:LYS:HD3	1.62	0.64
1:m:223:HIS:O	1:m:238:THR:OG1	2.12	0.64
1:t:332:GLN:HE21	1:t:647:LYS:HD3	1.62	0.64
1:v:223:HIS:O	1:v:238:THR:OG1	2.12	0.64
1:8:223:HIS:O	1:8:238:THR:OG1	2.12	0.64
1:8:290:LEU:HD21	1:8:297:LEU:HD22	1.79	0.64
1:F:218:ALA:H	1:G:400:ASN:HD21	1.45	0.64
1:G:223:HIS:O	1:G:238:THR:OG1	2.12	0.64
1:L:290:LEU:HD21	1:L:297:LEU:HD22	1.79	0.64
1:L:332:GLN:HE21	1:L:647:LYS:HD3	1.62	0.64
1:M:290:LEU:HD21	1:M:297:LEU:HD22	1.79	0.64
1:M:512:ARG:NH1	1:b:424:ASP:OD2	2.27	0.64
1:V:512:ARG:NH1	1:X:424:ASP:OD2	2.26	0.64
1:g:332:GLN:HE21	1:g:647:LYS:HD3	1.62	0.64
1:h:290:LEU:HD21	1:h:297:LEU:HD22	1.79	0.64
1:k:290:LEU:HD21	1:k:297:LEU:HD22	1.79	0.64
1:o:290:LEU:HD21	1:o:297:LEU:HD22	1.79	0.64
1:w:290:LEU:HD21	1:w:297:LEU:HD22	1.79	0.64
1:1:332:GLN:HE21	1:1:647:LYS:HD3	1.62	0.64
1:5:223:HIS:O	1:5:238:THR:OG1	2.12	0.64
1:5:400:ASN:HD21	1:8:218:ALA:H	1.45	0.64
1:7:332:GLN:HE21	1:7:647:LYS:HD3	1.62	0.64
1:G:332:GLN:HE21	1:G:647:LYS:HD3	1.62	0.64
1:M:332:GLN:HE21	1:M:647:LYS:HD3	1.62	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:290:LEU:HD21	1:Q:297:LEU:HD22	1.79	0.64
1:T:223:HIS:O	1:T:238:THR:OG1	2.12	0.64
1:U:290:LEU:HD21	1:U:297:LEU:HD22	1.79	0.64
1:X:290:LEU:HD21	1:X:297:LEU:HD22	1.79	0.64
1:Z:223:HIS:O	1:Z:238:THR:OG1	2.12	0.64
1:a:293:ASN:ND2	1:3:293:ASN:OD1	2.31	0.64
1:a:293:ASN:OD1	1:3:293:ASN:ND2	2.31	0.64
1:i:290:LEU:HD21	1:i:297:LEU:HD22	1.79	0.64
1:s:290:LEU:HD21	1:s:297:LEU:HD22	1.79	0.64
1:z:223:HIS:O	1:z:238:THR:OG1	2.12	0.64
1:A:223:HIS:O	1:A:238:THR:OG1	2.12	0.64
1:H:223:HIS:O	1:H:238:THR:OG1	2.12	0.64
1:b:290:LEU:HD21	1:b:297:LEU:HD22	1.79	0.64
1:g:293:ASN:OD1	1:z:293:ASN:ND2	2.31	0.64
1:g:406:TYR:OH	1:g:639:HIS:O	2.15	0.64
1:x:290:LEU:HD21	1:x:297:LEU:HD22	1.79	0.64
1:2:223:HIS:O	1:2:238:THR:OG1	2.12	0.64
1:C:406:TYR:OH	1:C:639:HIS:O	2.15	0.64
1:D:293:ASN:ND2	1:M:293:ASN:OD1	2.31	0.64
1:N:290:LEU:HD21	1:N:297:LEU:HD22	1.79	0.64
1:O:218:ALA:H	1:P:400:ASN:HD21	1.45	0.64
1:Y:290:LEU:HD21	1:Y:297:LEU:HD22	1.79	0.64
1:Y:332:GLN:HE21	1:Y:647:LYS:HD3	1.62	0.64
1:a:290:LEU:HD21	1:a:297:LEU:HD22	1.79	0.64
1:e:293:ASN:OD1	1:f:293:ASN:ND2	2.31	0.64
1:f:424:ASP:OD2	1:h:512:ARG:NH1	2.27	0.64
1:3:290:LEU:HD21	1:3:297:LEU:HD22	1.79	0.64
1:7:290:LEU:HD21	1:7:297:LEU:HD22	1.79	0.64
1:C:293:ASN:OD1	1:L:293:ASN:ND2	2.31	0.64
1:H:406:TYR:OH	1:H:639:HIS:O	2.15	0.64
1:T:290:LEU:HD21	1:T:297:LEU:HD22	1.79	0.64
1:T:332:GLN:HE21	1:T:647:LYS:HD3	1.62	0.64
1:b:293:ASN:ND2	1:c:293:ASN:OD1	2.31	0.64
1:b:332:GLN:HE21	1:b:647:LYS:HD3	1.62	0.64
1:f:290:LEU:HD21	1:f:297:LEU:HD22	1.79	0.64
1:h:293:ASN:OD1	1:k:293:ASN:ND2	2.31	0.64
1:o:424:ASP:OD2	1:p:512:ARG:NH1	2.26	0.64
1:3:406:TYR:OH	1:3:639:HIS:O	2.15	0.64
1:C:290:LEU:HD21	1:C:297:LEU:HD22	1.79	0.63
1:J:218:ALA:H	1:a:400:ASN:HD21	1.44	0.63
1:V:290:LEU:HD21	1:V:297:LEU:HD22	1.79	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:406:TYR:OH	1:a:639:HIS:O	2.15	0.63
1:c:332:GLN:HE21	1:c:647:LYS:HD3	1.62	0.63
1:m:332:GLN:HE21	1:m:647:LYS:HD3	1.62	0.63
1:p:223:HIS:O	1:p:238:THR:OG1	2.12	0.63
1:p:290:LEU:HD21	1:p:297:LEU:HD22	1.79	0.63
1:r:332:GLN:HE21	1:r:647:LYS:HD3	1.62	0.63
1:2:218:ALA:H	1:3:400:ASN:HD21	1.44	0.63
1:5:406:TYR:OH	1:5:639:HIS:O	2.15	0.63
1:d:293:ASN:ND2	1:n:293:ASN:OD1	2.31	0.63
1:g:290:LEU:HD21	1:g:297:LEU:HD22	1.79	0.63
1:m:290:LEU:HD21	1:m:297:LEU:HD22	1.79	0.63
1:F:223:HIS:O	1:F:238:THR:OG1	2.12	0.63
1:J:293:ASN:ND2	1:K:293:ASN:OD1	2.31	0.63
1:K:332:GLN:HE21	1:K:647:LYS:HD3	1.62	0.63
1:U:293:ASN:ND2	1:V:293:ASN:OD1	2.31	0.63
1:V:223:HIS:O	1:V:238:THR:OG1	2.12	0.63
1:d:293:ASN:OD1	1:n:293:ASN:ND2	2.31	0.63
1:e:290:LEU:HD21	1:e:297:LEU:HD22	1.79	0.63
1:e:332:GLN:HE21	1:e:647:LYS:HD3	1.62	0.63
1:f:332:GLN:HE21	1:f:647:LYS:HD3	1.62	0.63
1:i:293:ASN:ND2	1:l:293:ASN:OD1	2.32	0.63
1:y:290:LEU:HD21	1:y:297:LEU:HD22	1.79	0.63
1:4:332:GLN:HE21	1:4:647:LYS:HD3	1.62	0.63
1:B:293:ASN:ND2	1:I:293:ASN:OD1	2.31	0.63
1:F:290:LEU:HD21	1:F:297:LEU:HD22	1.79	0.63
1:N:293:ASN:ND2	1:O:293:ASN:OD1	2.32	0.63
1:S:293:ASN:OD1	1:T:293:ASN:ND2	2.31	0.63
1:S:332:GLN:HE21	1:S:647:LYS:HD3	1.62	0.63
1:W:293:ASN:OD1	1:X:293:ASN:ND2	2.31	0.63
1:m:293:ASN:ND2	1:r:293:ASN:OD1	2.31	0.63
1:p:293:ASN:OD1	1:s:293:ASN:ND2	2.31	0.63
1:t:293:ASN:OD1	1:5:293:ASN:ND2	2.31	0.63
1:v:290:LEU:HD21	1:v:297:LEU:HD22	1.79	0.63
1:2:293:ASN:ND2	1:4:293:ASN:OD1	2.31	0.63
1:A:290:LEU:HD21	1:A:297:LEU:HD22	1.79	0.63
1:E:293:ASN:ND2	1:P:293:ASN:OD1	2.31	0.63
1:G:293:ASN:OD1	1:H:293:ASN:ND2	2.31	0.63
1:O:400:ASN:HD21	1:d:218:ALA:H	1.45	0.63
1:c:290:LEU:HD21	1:c:297:LEU:HD22	1.79	0.63
1:i:728:TYR:O	1:j:382:ARG:NH2	2.31	0.63
1:l:400:ASN:HD21	1:n:218:ALA:H	1.45	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:293:ASN:OD1	1:6:293:ASN:ND2	2.31	0.63
1:o:293:ASN:ND2	1:6:293:ASN:OD1	2.31	0.63
1:u:293:ASN:OD1	1:1:293:ASN:ND2	2.31	0.63
1:y:223:HIS:O	1:y:238:THR:OG1	2.12	0.63
1:2:293:ASN:OD1	1:4:293:ASN:ND2	2.31	0.63
1:J:293:ASN:OD1	1:K:293:ASN:ND2	2.31	0.63
1:M:400:ASN:HD21	1:c:218:ALA:H	1.45	0.63
1:W:293:ASN:ND2	1:X:293:ASN:OD1	2.31	0.63
1:e:218:ALA:H	1:h:400:ASN:HD21	1.45	0.63
1:i:406:TYR:OH	1:i:639:HIS:O	2.15	0.63
1:v:293:ASN:ND2	1:y:293:ASN:OD1	2.31	0.63
1:A:293:ASN:ND2	1:F:293:ASN:OD1	2.31	0.63
1:K:290:LEU:HD21	1:K:297:LEU:HD22	1.79	0.63
1:U:293:ASN:OD1	1:V:293:ASN:ND2	2.31	0.63
1:U:332:GLN:HE21	1:U:647:LYS:HD3	1.62	0.63
1:n:400:ASN:HD21	1:r:218:ALA:H	1.44	0.63
1:p:293:ASN:ND2	1:s:293:ASN:OD1	2.31	0.63
1:q:293:ASN:OD1	1:x:293:ASN:ND2	2.31	0.63
1:v:293:ASN:OD1	1:y:293:ASN:ND2	2.31	0.63
1:7:293:ASN:OD1	1:8:293:ASN:ND2	2.32	0.63
1:N:406:TYR:OH	1:N:639:HIS:O	2.15	0.63
1:Y:293:ASN:OD1	1:Z:293:ASN:ND2	2.32	0.63
1:j:218:ALA:H	1:x:400:ASN:HD21	1.47	0.63
1:s:332:GLN:HE21	1:s:647:LYS:HD3	1.62	0.63
1:A:293:ASN:OD1	1:F:293:ASN:ND2	2.31	0.63
1:B:293:ASN:OD1	1:I:293:ASN:ND2	2.31	0.63
1:L:406:TYR:OH	1:L:639:HIS:O	2.15	0.63
1:Q:293:ASN:ND2	1:R:293:ASN:OD1	2.31	0.63
1:4:290:LEU:HD21	1:4:297:LEU:HD22	1.79	0.63
1:T:406:TYR:OH	1:T:639:HIS:O	2.15	0.62
1:Y:218:ALA:H	1:4:400:ASN:HD21	1.46	0.62
1:e:293:ASN:ND2	1:f:293:ASN:OD1	2.31	0.62
1:u:293:ASN:ND2	1:1:293:ASN:OD1	2.31	0.62
1:z:397:ARG:H	1:z:400:ASN:HD22	1.47	0.62
1:1:406:TYR:OH	1:1:639:HIS:O	2.15	0.62
1:E:293:ASN:OD1	1:P:293:ASN:ND2	2.31	0.62
1:E:406:TYR:OH	1:E:639:HIS:O	2.15	0.62
1:L:397:ARG:H	1:L:400:ASN:HD22	1.48	0.62
1:M:524:THR:HB	1:M:536:GLN:HE21	1.65	0.62
1:Y:293:ASN:ND2	1:Z:293:ASN:OD1	2.32	0.62
1:b:293:ASN:OD1	1:c:293:ASN:ND2	2.31	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:524:THR:HB	1:h:536:GLN:HE21	1.65	0.62
1:t:293:ASN:ND2	1:5:293:ASN:OD1	2.31	0.62
1:z:406:TYR:OH	1:z:639:HIS:O	2.15	0.62
1:7:293:ASN:ND2	1:8:293:ASN:OD1	2.32	0.62
1:A:524:THR:HB	1:A:536:GLN:HE21	1.64	0.62
1:D:397:ARG:H	1:D:400:ASN:HD22	1.48	0.62
1:G:293:ASN:ND2	1:H:293:ASN:OD1	2.31	0.62
1:I:218:ALA:H	1:J:400:ASN:HD21	1.44	0.62
1:S:218:ALA:H	1:d:400:ASN:HD21	1.45	0.62
1:m:406:TYR:OH	1:m:639:HIS:O	2.15	0.62
1:q:406:TYR:OH	1:q:639:HIS:O	2.15	0.62
1:v:524:THR:HB	1:v:536:GLN:HE21	1.65	0.62
1:w:406:TYR:OH	1:w:639:HIS:O	2.15	0.62
1:B:406:TYR:OH	1:B:639:HIS:O	2.15	0.62
1:C:400:ASN:HD21	1:D:218:ALA:H	1.45	0.62
1:C:524:THR:HB	1:C:536:GLN:HE21	1.65	0.62
1:D:293:ASN:OD1	1:M:293:ASN:ND2	2.31	0.62
1:E:397:ARG:H	1:E:400:ASN:HD22	1.47	0.62
1:K:400:ASN:HD21	1:7:218:ALA:H	1.46	0.62
1:Y:397:ARG:H	1:Y:400:ASN:HD22	1.48	0.62
1:g:524:THR:HB	1:g:536:GLN:HE21	1.65	0.62
1:k:397:ARG:H	1:k:400:ASN:HD22	1.48	0.62
1:o:397:ARG:H	1:o:400:ASN:HD22	1.48	0.62
1:p:406:TYR:OH	1:p:639:HIS:O	2.15	0.62
1:7:397:ARG:H	1:7:400:ASN:HD22	1.48	0.62
1:N:223:HIS:O	1:N:238:THR:OG1	2.12	0.62
1:N:397:ARG:H	1:N:400:ASN:HD22	1.48	0.62
1:X:397:ARG:H	1:X:400:ASN:HD22	1.48	0.62
1:e:524:THR:HB	1:e:536:GLN:HE21	1.65	0.62
1:o:524:THR:HB	1:o:536:GLN:HE21	1.65	0.62
1:q:293:ASN:ND2	1:x:293:ASN:OD1	2.31	0.62
1:s:397:ARG:H	1:s:400:ASN:HD22	1.48	0.62
1:u:218:ALA:H	1:2:400:ASN:HD21	1.44	0.62
1:v:406:TYR:OH	1:v:639:HIS:O	2.15	0.62
1:w:397:ARG:H	1:w:400:ASN:HD22	1.48	0.62
1:J:524:THR:HB	1:J:536:GLN:HE21	1.65	0.62
1:P:524:THR:HB	1:P:536:GLN:HE21	1.65	0.62
1:Q:293:ASN:OD1	1:R:293:ASN:ND2	2.31	0.62
1:R:290:LEU:HD21	1:R:297:LEU:HD22	1.79	0.62
1:R:406:TYR:OH	1:R:639:HIS:O	2.15	0.62
1:U:397:ARG:H	1:U:400:ASN:HD22	1.48	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:406:TYR:OH	1:V:639:HIS:O	2.15	0.62
1:X:524:THR:HB	1:X:536:GLN:HE21	1.65	0.62
1:c:524:THR:HB	1:c:536:GLN:HE21	1.65	0.62
1:h:293:ASN:ND2	1:k:293:ASN:OD1	2.31	0.62
1:i:223:HIS:O	1:i:238:THR:OG1	2.12	0.62
1:i:397:ARG:H	1:i:400:ASN:HD22	1.48	0.62
1:m:524:THR:HB	1:m:536:GLN:HE21	1.65	0.62
1:N:524:THR:HB	1:N:536:GLN:HE21	1.65	0.62
1:T:524:THR:HB	1:T:536:GLN:HE21	1.65	0.62
1:e:397:ARG:H	1:e:400:ASN:HD22	1.47	0.62
1:g:400:ASN:HD21	1:k:218:ALA:H	1.45	0.62
1:h:223:HIS:O	1:h:238:THR:OG1	2.12	0.62
1:j:524:THR:HB	1:j:536:GLN:HE21	1.65	0.62
1:l:397:ARG:H	1:l:400:ASN:HD22	1.47	0.62
1:p:400:ASN:HD21	1:6:218:ALA:H	1.45	0.62
1:r:406:TYR:OH	1:r:639:HIS:O	2.15	0.62
1:u:397:ARG:H	1:u:400:ASN:HD22	1.48	0.62
1:2:524:THR:HB	1:2:536:GLN:HE21	1.65	0.62
1:A:406:TYR:OH	1:A:639:HIS:O	2.15	0.62
1:I:397:ARG:H	1:I:400:ASN:HD22	1.48	0.62
1:K:406:TYR:OH	1:K:639:HIS:O	2.15	0.62
1:Q:406:TYR:OH	1:Q:639:HIS:O	2.15	0.62
1:R:524:THR:HB	1:R:536:GLN:HE21	1.65	0.62
1:i:524:THR:HB	1:i:536:GLN:HE21	1.65	0.62
1:q:524:THR:HB	1:q:536:GLN:HE21	1.65	0.62
1:x:406:TYR:OH	1:x:639:HIS:O	2.15	0.62
1:4:397:ARG:H	1:4:400:ASN:HD22	1.48	0.62
1:4:406:TYR:OH	1:4:639:HIS:O	2.15	0.62
1:D:524:THR:HB	1:D:536:GLN:HE21	1.65	0.62
1:M:223:HIS:O	1:M:238:THR:OG1	2.12	0.62
1:N:218:ALA:H	1:m:400:ASN:HD21	1.46	0.62
1:O:397:ARG:H	1:O:400:ASN:HD22	1.48	0.62
1:S:293:ASN:ND2	1:T:293:ASN:OD1	2.31	0.62
1:S:406:TYR:OH	1:S:639:HIS:O	2.15	0.62
1:c:397:ARG:H	1:c:400:ASN:HD22	1.47	0.62
1:f:524:THR:HB	1:f:536:GLN:HE21	1.65	0.62
1:g:293:ASN:ND2	1:z:293:ASN:OD1	2.31	0.62
1:m:293:ASN:OD1	1:r:293:ASN:ND2	2.31	0.62
1:p:524:THR:HB	1:p:536:GLN:HE21	1.65	0.62
1:q:290:LEU:HD21	1:q:297:LEU:HD22	1.79	0.62
1:8:397:ARG:H	1:8:400:ASN:HD22	1.48	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:691:ARG:NH1	1:A:730:THR:OG1	2.33	0.62
1:C:691:ARG:NH1	1:C:730:THR:OG1	2.33	0.62
1:K:397:ARG:H	1:K:400:ASN:HD22	1.48	0.62
1:V:400:ASN:HD21	1:W:218:ALA:H	1.45	0.62
1:X:691:ARG:NH1	1:X:730:THR:OG1	2.33	0.62
1:Z:397:ARG:H	1:Z:400:ASN:HD22	1.48	0.62
1:b:524:THR:HB	1:b:536:GLN:HE21	1.65	0.62
1:c:691:ARG:NH1	1:c:730:THR:OG1	2.33	0.62
1:g:691:ARG:NH1	1:g:730:THR:OG1	2.33	0.62
1:i:293:ASN:OD1	1:l:293:ASN:ND2	2.32	0.62
1:k:524:THR:HB	1:k:536:GLN:HE21	1.65	0.62
1:r:524:THR:HB	1:r:536:GLN:HE21	1.65	0.62
1:v:691:ARG:NH1	1:v:730:THR:OG1	2.33	0.62
1:6:397:ARG:H	1:6:400:ASN:HD22	1.48	0.62
1:8:524:THR:HB	1:8:536:GLN:HE21	1.64	0.62
1:J:397:ARG:H	1:J:400:ASN:HD22	1.48	0.61
1:K:691:ARG:NH1	1:K:730:THR:OG1	2.33	0.61
1:S:524:THR:HB	1:S:536:GLN:HE21	1.65	0.61
1:V:524:THR:HB	1:V:536:GLN:HE21	1.65	0.61
1:W:397:ARG:H	1:W:400:ASN:HD22	1.48	0.61
1:a:691:ARG:NH1	1:a:730:THR:OG1	2.33	0.61
1:b:476:CYS:SG	1:b:574:PHE:HB2	2.40	0.61
1:e:691:ARG:NH1	1:e:730:THR:OG1	2.33	0.61
1:f:476:CYS:SG	1:f:574:PHE:HB2	2.40	0.61
1:m:397:ARG:H	1:m:400:ASN:HD22	1.48	0.61
1:o:691:ARG:NH1	1:o:730:THR:OG1	2.33	0.61
1:z:524:THR:HB	1:z:536:GLN:HE21	1.65	0.61
1:2:397:ARG:H	1:2:400:ASN:HD22	1.48	0.61
1:4:691:ARG:NH1	1:4:730:THR:OG1	2.33	0.61
1:5:691:ARG:NH1	1:5:730:THR:OG1	2.33	0.61
1:7:476:CYS:SG	1:7:574:PHE:HB2	2.40	0.61
1:C:293:ASN:ND2	1:L:293:ASN:OD1	2.31	0.61
1:H:691:ARG:NH1	1:H:730:THR:OG1	2.33	0.61
1:T:397:ARG:H	1:T:400:ASN:HD22	1.48	0.61
1:Y:476:CYS:SG	1:Y:574:PHE:HB2	2.41	0.61
1:Z:524:THR:HB	1:Z:536:GLN:HE21	1.64	0.61
1:j:293:ASN:OD1	1:w:293:ASN:ND2	2.33	0.61
1:u:476:CYS:SG	1:u:574:PHE:HB2	2.41	0.61
1:y:406:TYR:OH	1:y:639:HIS:O	2.15	0.61
1:3:691:ARG:NH1	1:3:730:THR:OG1	2.33	0.61
1:7:691:ARG:NH1	1:7:730:THR:OG1	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:476:CYS:SG	1:I:574:PHE:HB2	2.41	0.61
1:M:691:ARG:NH1	1:M:730:THR:OG1	2.33	0.61
1:N:293:ASN:OD1	1:O:293:ASN:ND2	2.32	0.61
1:Q:223:HIS:O	1:Q:238:THR:OG1	2.12	0.61
1:S:691:ARG:NH1	1:S:730:THR:OG1	2.33	0.61
1:U:691:ARG:NH1	1:U:730:THR:OG1	2.33	0.61
1:W:691:ARG:NH1	1:W:730:THR:OG1	2.33	0.61
1:Y:691:ARG:NH1	1:Y:730:THR:OG1	2.33	0.61
1:Z:476:CYS:SG	1:Z:574:PHE:HB2	2.40	0.61
1:a:476:CYS:SG	1:a:574:PHE:HB2	2.40	0.61
1:l:691:ARG:NH1	1:l:730:THR:OG1	2.33	0.61
1:q:420:SER:N	1:q:731:ASN:O	2.32	0.61
1:y:524:THR:HB	1:y:536:GLN:HE21	1.65	0.61
1:6:524:THR:HB	1:6:536:GLN:HE21	1.65	0.61
1:6:691:ARG:NH1	1:6:730:THR:OG1	2.33	0.61
1:C:397:ARG:H	1:C:400:ASN:HD22	1.48	0.61
1:F:476:CYS:SG	1:F:574:PHE:HB2	2.40	0.61
1:L:524:THR:HB	1:L:536:GLN:HE21	1.65	0.61
1:N:476:CYS:SG	1:N:574:PHE:HB2	2.40	0.61
1:O:691:ARG:NH1	1:O:730:THR:OG1	2.33	0.61
1:R:691:ARG:NH1	1:R:730:THR:OG1	2.33	0.61
1:T:400:ASN:HD21	1:i:218:ALA:H	1.46	0.61
1:T:691:ARG:NH1	1:T:730:THR:OG1	2.33	0.61
1:V:476:CYS:SG	1:V:574:PHE:HB2	2.41	0.61
1:f:397:ARG:H	1:f:400:ASN:HD22	1.47	0.61
1:h:691:ARG:NH1	1:h:730:THR:OG1	2.33	0.61
1:i:476:CYS:SG	1:i:574:PHE:HB2	2.41	0.61
1:j:223:HIS:O	1:j:238:THR:OG1	2.12	0.61
1:j:691:ARG:NH1	1:j:730:THR:OG1	2.33	0.61
1:m:691:ARG:NH1	1:m:730:THR:OG1	2.33	0.61
1:p:476:CYS:SG	1:p:574:PHE:HB2	2.41	0.61
1:r:691:ARG:NH1	1:r:730:THR:OG1	2.33	0.61
1:s:524:THR:HB	1:s:536:GLN:HE21	1.65	0.61
1:s:691:ARG:NH1	1:s:730:THR:OG1	2.33	0.61
1:t:476:CYS:SG	1:t:574:PHE:HB2	2.40	0.61
1:u:691:ARG:NH1	1:u:730:THR:OG1	2.33	0.61
1:3:476:CYS:SG	1:3:574:PHE:HB2	2.40	0.61
1:5:524:THR:HB	1:5:536:GLN:HE21	1.65	0.61
1:8:476:CYS:SG	1:8:574:PHE:HB2	2.40	0.61
1:E:476:CYS:SG	1:E:574:PHE:HB2	2.40	0.61
1:F:406:TYR:OH	1:F:639:HIS:O	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:476:CYS:SG	1:G:574:PHE:HB2	2.40	0.61
1:G:691:ARG:NH1	1:G:730:THR:OG1	2.33	0.61
1:H:524:THR:HB	1:H:536:GLN:HE21	1.65	0.61
1:I:691:ARG:NH1	1:I:730:THR:OG1	2.33	0.61
1:P:691:ARG:NH1	1:P:730:THR:OG1	2.33	0.61
1:Q:476:CYS:SG	1:Q:574:PHE:HB2	2.41	0.61
1:Q:691:ARG:NH1	1:Q:730:THR:OG1	2.33	0.61
1:R:420:SER:N	1:R:731:ASN:O	2.32	0.61
1:W:524:THR:HB	1:W:536:GLN:HE21	1.65	0.61
1:X:476:CYS:SG	1:X:574:PHE:HB2	2.40	0.61
1:b:397:ARG:H	1:b:400:ASN:HD22	1.47	0.61
1:c:476:CYS:SG	1:c:574:PHE:HB2	2.40	0.61
1:e:476:CYS:SG	1:e:574:PHE:HB2	2.40	0.61
1:j:293:ASN:ND2	1:w:293:ASN:OD1	2.32	0.61
1:o:476:CYS:SG	1:o:574:PHE:HB2	2.40	0.61
1:q:691:ARG:NH1	1:q:730:THR:OG1	2.33	0.61
1:v:397:ARG:H	1:v:400:ASN:HD22	1.48	0.61
1:x:476:CYS:SG	1:x:574:PHE:HB2	2.41	0.61
1:y:420:SER:N	1:y:731:ASN:O	2.32	0.61
1:y:476:CYS:SG	1:y:574:PHE:HB2	2.41	0.61
1:z:476:CYS:SG	1:z:574:PHE:HB2	2.40	0.61
1:A:397:ARG:H	1:A:400:ASN:HD22	1.48	0.61
1:F:524:THR:HB	1:F:536:GLN:HE21	1.65	0.61
1:J:691:ARG:NH1	1:J:730:THR:OG1	2.33	0.61
1:L:476:CYS:SG	1:L:574:PHE:HB2	2.40	0.61
1:U:524:THR:HB	1:U:536:GLN:HE21	1.65	0.61
1:W:476:CYS:SG	1:W:574:PHE:HB2	2.41	0.61
1:Y:524:THR:HB	1:Y:536:GLN:HE21	1.65	0.61
1:d:524:THR:HB	1:d:536:GLN:HE21	1.65	0.61
1:n:524:THR:HB	1:n:536:GLN:HE21	1.65	0.61
1:n:691:ARG:NH1	1:n:730:THR:OG1	2.33	0.61
1:t:525:ALA:O	1:t:559:SER:OG	2.18	0.61
1:t:691:ARG:NH1	1:t:730:THR:OG1	2.33	0.61
1:x:691:ARG:NH1	1:x:730:THR:OG1	2.33	0.61
1:5:397:ARG:H	1:5:400:ASN:HD22	1.48	0.61
1:E:524:THR:HB	1:E:536:GLN:HE21	1.64	0.61
1:E:691:ARG:NH1	1:E:730:THR:OG1	2.33	0.61
1:F:420:SER:N	1:F:731:ASN:O	2.32	0.61
1:G:525:ALA:O	1:G:559:SER:OG	2.18	0.61
1:d:691:ARG:NH1	1:d:730:THR:OG1	2.33	0.61
1:g:397:ARG:H	1:g:400:ASN:HD22	1.48	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:476:CYS:SG	1:w:574:PHE:HB2	2.41	0.61
1:w:691:ARG:NH1	1:w:730:THR:OG1	2.33	0.61
1:x:223:HIS:O	1:x:238:THR:OG1	2.12	0.61
1:6:476:CYS:SG	1:6:574:PHE:HB2	2.41	0.61
1:7:524:THR:HB	1:7:536:GLN:HE21	1.64	0.61
1:K:476:CYS:SG	1:K:574:PHE:HB2	2.40	0.61
1:M:406:TYR:OH	1:M:639:HIS:O	2.15	0.61
1:P:223:HIS:O	1:P:238:THR:OG1	2.12	0.61
1:R:476:CYS:SG	1:R:574:PHE:HB2	2.41	0.61
1:h:406:TYR:OH	1:h:639:HIS:O	2.15	0.61
1:q:476:CYS:SG	1:q:574:PHE:HB2	2.41	0.61
1:v:476:CYS:SG	1:v:574:PHE:HB2	2.40	0.61
1:z:691:ARG:NH1	1:z:730:THR:OG1	2.33	0.61
1:2:691:ARG:NH1	1:2:730:THR:OG1	2.33	0.61
1:4:476:CYS:SG	1:4:574:PHE:HB2	2.40	0.61
1:A:476:CYS:SG	1:A:574:PHE:HB2	2.41	0.61
1:H:397:ARG:H	1:H:400:ASN:HD22	1.48	0.61
1:L:691:ARG:NH1	1:L:730:THR:OG1	2.33	0.61
1:Q:524:THR:HB	1:Q:536:GLN:HE21	1.65	0.61
1:k:476:CYS:SG	1:k:574:PHE:HB2	2.40	0.61
1:l:476:CYS:SG	1:l:574:PHE:HB2	2.40	0.61
1:x:524:THR:HB	1:x:536:GLN:HE21	1.65	0.61
1:y:691:ARG:NH1	1:y:730:THR:OG1	2.33	0.61
1:B:476:CYS:SG	1:B:574:PHE:HB2	2.41	0.61
1:D:476:CYS:SG	1:D:574:PHE:HB2	2.41	0.61
1:G:420:SER:N	1:G:731:ASN:O	2.32	0.61
1:M:476:CYS:SG	1:M:574:PHE:HB2	2.40	0.61
1:O:476:CYS:SG	1:O:574:PHE:HB2	2.40	0.61
1:T:476:CYS:SG	1:T:574:PHE:HB2	2.40	0.61
1:U:476:CYS:SG	1:U:574:PHE:HB2	2.40	0.61
1:V:691:ARG:NH1	1:V:730:THR:OG1	2.33	0.61
1:j:420:SER:N	1:j:731:ASN:O	2.32	0.61
1:s:476:CYS:SG	1:s:574:PHE:HB2	2.40	0.61
1:w:524:THR:HB	1:w:536:GLN:HE21	1.65	0.61
1:1:476:CYS:SG	1:1:574:PHE:HB2	2.41	0.61
1:B:691:ARG:NH1	1:B:730:THR:OG1	2.33	0.60
1:F:397:ARG:H	1:F:400:ASN:HD22	1.48	0.60
1:F:691:ARG:NH1	1:F:730:THR:OG1	2.33	0.60
1:J:476:CYS:SG	1:J:574:PHE:HB2	2.41	0.60
1:K:524:THR:HB	1:K:536:GLN:HE21	1.65	0.60
1:Z:691:ARG:NH1	1:Z:730:THR:OG1	2.33	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:397:ARG:H	1:a:400:ASN:HD22	1.48	0.60
1:h:476:CYS:SG	1:h:574:PHE:HB2	2.40	0.60
1:m:476:CYS:SG	1:m:574:PHE:HB2	2.40	0.60
1:q:397:ARG:H	1:q:400:ASN:HD22	1.48	0.60
1:y:397:ARG:H	1:y:400:ASN:HD22	1.48	0.60
1:1:691:ARG:NH1	1:1:730:THR:OG1	2.33	0.60
1:3:397:ARG:H	1:3:400:ASN:HD22	1.48	0.60
1:I:524:THR:HB	1:I:536:GLN:HE21	1.65	0.60
1:N:691:ARG:NH1	1:N:730:THR:OG1	2.33	0.60
1:R:397:ARG:H	1:R:400:ASN:HD22	1.48	0.60
1:T:526:GLY:N	1:T:529:ASP:OD2	2.35	0.60
1:d:397:ARG:H	1:d:400:ASN:HD22	1.48	0.60
1:h:420:SER:N	1:h:731:ASN:O	2.32	0.60
1:m:526:GLY:N	1:m:529:ASP:OD2	2.35	0.60
1:p:691:ARG:NH1	1:p:730:THR:OG1	2.33	0.60
1:t:420:SER:N	1:t:731:ASN:O	2.32	0.60
1:t:524:THR:HB	1:t:536:GLN:HE21	1.64	0.60
1:4:524:THR:HB	1:4:536:GLN:HE21	1.65	0.60
1:8:691:ARG:NH1	1:8:730:THR:OG1	2.33	0.60
1:B:397:ARG:H	1:B:400:ASN:HD22	1.48	0.60
1:P:420:SER:N	1:P:731:ASN:O	2.32	0.60
1:i:691:ARG:NH1	1:i:730:THR:OG1	2.33	0.60
1:m:420:SER:N	1:m:731:ASN:O	2.32	0.60
1:n:397:ARG:H	1:n:400:ASN:HD22	1.48	0.60
1:2:476:CYS:SG	1:2:574:PHE:HB2	2.41	0.60
1:3:524:THR:HB	1:3:536:GLN:HE21	1.65	0.60
1:B:524:THR:HB	1:B:536:GLN:HE21	1.65	0.60
1:G:524:THR:HB	1:G:536:GLN:HE21	1.64	0.60
1:H:476:CYS:SG	1:H:574:PHE:HB2	2.41	0.60
1:M:397:ARG:H	1:M:400:ASN:HD22	1.48	0.60
1:M:420:SER:N	1:M:731:ASN:O	2.32	0.60
1:P:476:CYS:SG	1:P:574:PHE:HB2	2.40	0.60
1:g:420:SER:N	1:g:731:ASN:O	2.32	0.60
1:h:397:ARG:H	1:h:400:ASN:HD22	1.48	0.60
1:u:524:THR:HB	1:u:536:GLN:HE21	1.65	0.60
1:C:420:SER:N	1:C:731:ASN:O	2.32	0.60
1:C:476:CYS:SG	1:C:574:PHE:HB2	2.41	0.60
1:G:397:ARG:H	1:G:400:ASN:HD22	1.47	0.60
1:M:525:ALA:O	1:M:559:SER:OG	2.18	0.60
1:T:420:SER:N	1:T:731:ASN:O	2.32	0.60
1:g:476:CYS:SG	1:g:574:PHE:HB2	2.41	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:476:CYS:SG	1:j:574:PHE:HB2	2.40	0.60
1:k:691:ARG:NH1	1:k:730:THR:OG1	2.33	0.60
1:t:397:ARG:H	1:t:400:ASN:HD22	1.47	0.60
1:5:476:CYS:SG	1:5:574:PHE:HB2	2.40	0.60
1:J:420:SER:N	1:J:731:ASN:O	2.32	0.60
1:S:476:CYS:SG	1:S:574:PHE:HB2	2.41	0.60
1:V:397:ARG:H	1:V:400:ASN:HD22	1.48	0.60
1:a:524:THR:HB	1:a:536:GLN:HE21	1.65	0.60
1:h:525:ALA:O	1:h:559:SER:OG	2.18	0.60
1:p:397:ARG:H	1:p:400:ASN:HD22	1.48	0.60
1:r:476:CYS:SG	1:r:574:PHE:HB2	2.41	0.60
1:1:397:ARG:H	1:1:400:ASN:HD22	1.48	0.60
1:1:524:THR:HB	1:1:536:GLN:HE21	1.65	0.60
1:M:526:GLY:N	1:M:529:ASP:OD2	2.35	0.60
1:N:526:GLY:N	1:N:529:ASP:OD2	2.35	0.60
1:O:524:THR:HB	1:O:536:GLN:HE21	1.65	0.60
1:h:526:GLY:N	1:h:529:ASP:OD2	2.35	0.60
1:i:526:GLY:N	1:i:529:ASP:OD2	2.35	0.60
1:D:691:ARG:NH1	1:D:730:THR:OG1	2.33	0.60
1:I:420:SER:N	1:I:731:ASN:O	2.32	0.60
1:d:476:CYS:SG	1:d:574:PHE:HB2	2.40	0.60
1:2:420:SER:N	1:2:731:ASN:O	2.32	0.60
1:n:476:CYS:SG	1:n:574:PHE:HB2	2.40	0.60
1:b:691:ARG:NH1	1:b:730:THR:OG1	2.33	0.60
1:l:524:THR:HB	1:l:536:GLN:HE21	1.64	0.60
1:x:397:ARG:H	1:x:400:ASN:HD22	1.48	0.60
1:S:397:ARG:H	1:S:400:ASN:HD22	1.48	0.59
1:u:420:SER:N	1:u:731:ASN:O	2.32	0.59
1:5:420:SER:N	1:5:731:ASN:O	2.32	0.59
1:A:525:ALA:O	1:A:559:SER:OG	2.18	0.59
1:Q:397:ARG:H	1:Q:400:ASN:HD22	1.48	0.59
1:f:691:ARG:NH1	1:f:730:THR:OG1	2.33	0.59
1:g:526:GLY:N	1:g:529:ASP:OD2	2.35	0.59
1:r:397:ARG:H	1:r:400:ASN:HD22	1.48	0.59
1:w:526:GLY:N	1:w:529:ASP:OD2	2.35	0.59
1:y:525:ALA:O	1:y:559:SER:OG	2.18	0.59
1:2:526:GLY:N	1:2:529:ASP:OD2	2.35	0.59
1:C:526:GLY:N	1:C:529:ASP:OD2	2.35	0.59
1:E:526:GLY:N	1:E:529:ASP:OD2	2.35	0.59
1:K:415:SER:HB2	1:K:417:TYR:CE2	2.38	0.59
1:L:415:SER:HB2	1:L:417:TYR:CE2	2.38	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:415:SER:HB2	1:U:417:TYR:CE2	2.38	0.59
1:g:223:HIS:O	1:g:238:THR:OG1	2.12	0.59
1:s:415:SER:HB2	1:s:417:TYR:CE2	2.38	0.59
1:z:415:SER:HB2	1:z:417:TYR:CE2	2.38	0.59
1:4:415:SER:HB2	1:4:417:TYR:CE2	2.38	0.59
1:A:526:GLY:N	1:A:529:ASP:OD2	2.35	0.59
1:E:415:SER:HB2	1:E:417:TYR:CE2	2.38	0.59
1:H:420:SER:N	1:H:731:ASN:O	2.32	0.59
1:J:246:TYR:OH	1:J:363:VAL:O	2.21	0.59
1:J:526:GLY:N	1:J:529:ASP:OD2	2.35	0.59
1:L:276:ASN:O	1:L:277:ARG:HG3	2.03	0.59
1:N:276:ASN:O	1:N:277:ARG:HG3	2.03	0.59
1:R:415:SER:HB2	1:R:417:TYR:CE2	2.38	0.59
1:X:276:ASN:O	1:X:277:ARG:HG3	2.03	0.59
1:Y:276:ASN:O	1:Y:277:ARG:HG3	2.03	0.59
1:d:246:TYR:OH	1:d:363:VAL:O	2.21	0.59
1:d:276:ASN:O	1:d:277:ARG:HG3	2.03	0.59
1:g:276:ASN:O	1:g:277:ARG:HG3	2.03	0.59
1:i:276:ASN:O	1:i:277:ARG:HG3	2.03	0.59
1:j:397:ARG:H	1:j:400:ASN:HD22	1.48	0.59
1:n:276:ASN:O	1:n:277:ARG:HG3	2.03	0.59
1:q:276:ASN:O	1:q:277:ARG:HG3	2.03	0.59
1:q:415:SER:HB2	1:q:417:TYR:CE2	2.38	0.59
1:v:415:SER:HB2	1:v:417:TYR:CE2	2.38	0.59
1:2:246:TYR:OH	1:2:363:VAL:O	2.21	0.59
1:7:276:ASN:O	1:7:277:ARG:HG3	2.03	0.59
1:A:415:SER:HB2	1:A:417:TYR:CE2	2.38	0.59
1:B:276:ASN:O	1:B:277:ARG:HG3	2.03	0.59
1:C:223:HIS:O	1:C:238:THR:OG1	2.12	0.59
1:C:276:ASN:O	1:C:277:ARG:HG3	2.03	0.59
1:D:415:SER:HB2	1:D:417:TYR:CE2	2.38	0.59
1:O:276:ASN:O	1:O:277:ARG:HG3	2.03	0.59
1:O:415:SER:HB2	1:O:417:TYR:CE2	2.38	0.59
1:Q:420:SER:N	1:Q:731:ASN:O	2.32	0.59
1:R:276:ASN:O	1:R:277:ARG:HG3	2.03	0.59
1:a:415:SER:HB2	1:a:417:TYR:CE2	2.38	0.59
1:k:415:SER:HB2	1:k:417:TYR:CE2	2.38	0.59
1:l:246:TYR:OH	1:l:363:VAL:O	2.21	0.59
1:l:276:ASN:O	1:l:277:ARG:HG3	2.03	0.59
1:l:415:SER:HB2	1:l:417:TYR:CE2	2.38	0.59
1:n:246:TYR:OH	1:n:363:VAL:O	2.21	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:276:ASN:O	1:o:277:ARG:HG3	2.03	0.59
1:v:526:GLY:N	1:v:529:ASP:OD2	2.35	0.59
1:w:415:SER:HB2	1:w:417:TYR:CE2	2.38	0.59
1:x:420:SER:N	1:x:731:ASN:O	2.32	0.59
1:z:276:ASN:O	1:z:277:ARG:HG3	2.03	0.59
1:3:415:SER:HB2	1:3:417:TYR:CE2	2.38	0.59
1:D:526:GLY:N	1:D:529:ASP:OD2	2.35	0.59
1:F:246:TYR:OH	1:F:363:VAL:O	2.21	0.59
1:G:276:ASN:O	1:G:277:ARG:HG3	2.03	0.59
1:K:276:ASN:O	1:K:277:ARG:HG3	2.03	0.59
1:L:420:SER:N	1:L:731:ASN:O	2.32	0.59
1:O:526:GLY:N	1:O:529:ASP:OD2	2.35	0.59
1:P:397:ARG:H	1:P:400:ASN:HD22	1.48	0.59
1:X:526:GLY:N	1:X:529:ASP:OD2	2.35	0.59
1:Y:415:SER:HB2	1:Y:417:TYR:CE2	2.38	0.59
1:a:276:ASN:O	1:a:277:ARG:HG3	2.03	0.59
1:d:420:SER:N	1:d:731:ASN:O	2.32	0.59
1:k:526:GLY:N	1:k:529:ASP:OD2	2.35	0.59
1:n:420:SER:N	1:n:731:ASN:O	2.32	0.59
1:z:420:SER:N	1:z:731:ASN:O	2.32	0.59
1:z:526:GLY:N	1:z:529:ASP:OD2	2.35	0.59
1:1:276:ASN:O	1:1:277:ARG:HG3	2.03	0.59
1:3:276:ASN:O	1:3:277:ARG:HG3	2.03	0.59
1:4:276:ASN:O	1:4:277:ARG:HG3	2.03	0.59
1:A:276:ASN:O	1:A:277:ARG:HG3	2.03	0.59
1:B:415:SER:HB2	1:B:417:TYR:CE2	2.38	0.59
1:G:526:GLY:N	1:G:529:ASP:OD2	2.35	0.59
1:H:246:TYR:OH	1:H:363:VAL:O	2.21	0.59
1:M:276:ASN:O	1:M:277:ARG:HG3	2.03	0.59
1:P:246:TYR:OH	1:P:363:VAL:O	2.21	0.59
1:V:276:ASN:O	1:V:277:ARG:HG3	2.03	0.59
1:W:276:ASN:O	1:W:277:ARG:HG3	2.03	0.59
1:h:276:ASN:O	1:h:277:ARG:HG3	2.03	0.59
1:h:415:SER:HB2	1:h:417:TYR:CE2	2.38	0.59
1:j:246:TYR:OH	1:j:363:VAL:O	2.21	0.59
1:l:526:GLY:N	1:l:529:ASP:OD2	2.35	0.59
1:o:526:GLY:N	1:o:529:ASP:OD2	2.35	0.59
1:t:276:ASN:O	1:t:277:ARG:HG3	2.03	0.59
1:t:526:GLY:N	1:t:529:ASP:OD2	2.35	0.59
1:1:415:SER:HB2	1:1:417:TYR:CE2	2.38	0.59
1:5:246:TYR:OH	1:5:363:VAL:O	2.21	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:415:SER:HB2	1:7:417:TYR:CE2	2.38	0.59
1:M:246:TYR:OH	1:M:363:VAL:O	2.21	0.59
1:M:415:SER:HB2	1:M:417:TYR:CE2	2.38	0.59
1:S:415:SER:HB2	1:S:417:TYR:CE2	2.38	0.59
1:h:246:TYR:OH	1:h:363:VAL:O	2.21	0.59
1:p:276:ASN:O	1:p:277:ARG:HG3	2.03	0.59
1:6:276:ASN:O	1:6:277:ARG:HG3	2.03	0.59
1:G:415:SER:HB2	1:G:417:TYR:CE2	2.38	0.59
1:L:526:GLY:N	1:L:529:ASP:OD2	2.35	0.59
1:P:276:ASN:O	1:P:277:ARG:HG3	2.03	0.59
1:Q:276:ASN:O	1:Q:277:ARG:HG3	2.03	0.59
1:Q:415:SER:HB2	1:Q:417:TYR:CE2	2.38	0.59
1:g:415:SER:HB2	1:g:417:TYR:CE2	2.38	0.59
1:r:415:SER:HB2	1:r:417:TYR:CE2	2.38	0.59
1:t:415:SER:HB2	1:t:417:TYR:CE2	2.38	0.59
1:u:276:ASN:O	1:u:277:ARG:HG3	2.03	0.59
1:v:276:ASN:O	1:v:277:ARG:HG3	2.03	0.59
1:x:276:ASN:O	1:x:277:ARG:HG3	2.03	0.59
1:x:415:SER:HB2	1:x:417:TYR:CE2	2.38	0.59
1:2:415:SER:HB2	1:2:417:TYR:CE2	2.38	0.59
1:8:687:GLU:HG3	1:8:687:GLU:O	2.03	0.59
1:B:526:GLY:N	1:B:529:ASP:OD2	2.35	0.59
1:C:415:SER:HB2	1:C:417:TYR:CE2	2.38	0.59
1:J:415:SER:HB2	1:J:417:TYR:CE2	2.38	0.59
1:T:415:SER:HB2	1:T:417:TYR:CE2	2.38	0.59
1:Z:687:GLU:HG3	1:Z:687:GLU:O	2.03	0.59
1:b:276:ASN:O	1:b:277:ARG:HG3	2.03	0.59
1:f:276:ASN:O	1:f:277:ARG:HG3	2.03	0.59
1:j:276:ASN:O	1:j:277:ARG:HG3	2.03	0.59
1:m:415:SER:HB2	1:m:417:TYR:CE2	2.38	0.59
1:o:415:SER:HB2	1:o:417:TYR:CE2	2.38	0.59
1:7:526:GLY:N	1:7:529:ASP:OD2	2.35	0.59
1:I:276:ASN:O	1:I:277:ARG:HG3	2.03	0.58
1:N:246:TYR:OH	1:N:363:VAL:O	2.21	0.58
1:R:246:TYR:OH	1:R:363:VAL:O	2.21	0.58
1:U:276:ASN:O	1:U:277:ARG:HG3	2.03	0.58
1:X:415:SER:HB2	1:X:417:TYR:CE2	2.38	0.58
1:c:276:ASN:O	1:c:277:ARG:HG3	2.03	0.58
1:c:415:SER:HB2	1:c:417:TYR:CE2	2.38	0.58
1:e:415:SER:HB2	1:e:417:TYR:CE2	2.38	0.58
1:i:246:TYR:OH	1:i:363:VAL:O	2.21	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:276:ASN:O	1:s:277:ARG:HG3	2.03	0.58
1:w:687:GLU:HG3	1:w:687:GLU:O	2.03	0.58
1:y:276:ASN:O	1:y:277:ARG:HG3	2.03	0.58
1:7:246:TYR:OH	1:7:363:VAL:O	2.21	0.58
1:D:276:ASN:O	1:D:277:ARG:HG3	2.03	0.58
1:E:687:GLU:O	1:E:687:GLU:HG3	2.03	0.58
1:F:276:ASN:O	1:F:277:ARG:HG3	2.03	0.58
1:K:687:GLU:HG3	1:K:687:GLU:O	2.03	0.58
1:Q:246:TYR:OH	1:Q:363:VAL:O	2.21	0.58
1:Z:415:SER:HB2	1:Z:417:TYR:CE2	2.38	0.58
1:e:276:ASN:O	1:e:277:ARG:HG3	2.03	0.58
1:k:276:ASN:O	1:k:277:ARG:HG3	2.03	0.58
1:q:246:TYR:OH	1:q:363:VAL:O	2.21	0.58
1:x:246:TYR:OH	1:x:363:VAL:O	2.21	0.58
1:1:526:GLY:N	1:1:529:ASP:OD2	2.35	0.58
1:4:687:GLU:HG3	1:4:687:GLU:O	2.03	0.58
1:N:334:PHE:CZ	1:N:388:LEU:HD22	2.39	0.58
1:O:687:GLU:HG3	1:O:687:GLU:O	2.03	0.58
1:Q:526:GLY:N	1:Q:529:ASP:OD2	2.35	0.58
1:Y:246:TYR:OH	1:Y:363:VAL:O	2.21	0.58
1:Y:526:GLY:N	1:Y:529:ASP:OD2	2.35	0.58
1:f:415:SER:HB2	1:f:417:TYR:CE2	2.38	0.58
1:i:415:SER:HB2	1:i:417:TYR:CE2	2.38	0.58
1:l:687:GLU:HG3	1:l:687:GLU:O	2.03	0.58
1:q:526:GLY:N	1:q:529:ASP:OD2	2.35	0.58
1:1:525:ALA:O	1:1:559:SER:OG	2.18	0.58
1:8:415:SER:HB2	1:8:417:TYR:CE2	2.38	0.58
1:N:415:SER:HB2	1:N:417:TYR:CE2	2.38	0.58
1:R:526:GLY:N	1:R:529:ASP:OD2	2.35	0.58
1:Z:420:SER:N	1:Z:731:ASN:O	2.32	0.58
1:b:415:SER:HB2	1:b:417:TYR:CE2	2.38	0.58
1:i:334:PHE:CZ	1:i:388:LEU:HD22	2.39	0.58
1:n:415:SER:HB2	1:n:417:TYR:CE2	2.38	0.58
1:r:526:GLY:N	1:r:529:ASP:OD2	2.35	0.58
1:t:246:TYR:OH	1:t:363:VAL:O	2.21	0.58
1:x:526:GLY:N	1:x:529:ASP:OD2	2.35	0.58
1:B:525:ALA:O	1:B:559:SER:OG	2.18	0.58
1:F:415:SER:HB2	1:F:417:TYR:CE2	2.38	0.58
1:G:246:TYR:OH	1:G:363:VAL:O	2.21	0.58
1:I:415:SER:HB2	1:I:417:TYR:CE2	2.38	0.58
1:K:246:TYR:OH	1:K:363:VAL:O	2.21	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:334:PHE:CZ	1:K:388:LEU:HD22	2.39	0.58
1:P:415:SER:HB2	1:P:417:TYR:CE2	2.38	0.58
1:Q:334:PHE:CZ	1:Q:388:LEU:HD22	2.39	0.58
1:S:526:GLY:N	1:S:529:ASP:OD2	2.35	0.58
1:V:334:PHE:CZ	1:V:388:LEU:HD22	2.39	0.58
1:Z:526:GLY:N	1:Z:529:ASP:OD2	2.35	0.58
1:a:246:TYR:OH	1:a:363:VAL:O	2.21	0.58
1:a:420:SER:N	1:a:731:ASN:O	2.32	0.58
1:b:420:SER:N	1:b:731:ASN:O	2.32	0.58
1:d:334:PHE:CZ	1:d:388:LEU:HD22	2.39	0.58
1:d:415:SER:HB2	1:d:417:TYR:CE2	2.38	0.58
1:e:334:PHE:CZ	1:e:388:LEU:HD22	2.39	0.58
1:j:415:SER:HB2	1:j:417:TYR:CE2	2.38	0.58
1:p:334:PHE:CZ	1:p:388:LEU:HD22	2.39	0.58
1:u:334:PHE:CZ	1:u:388:LEU:HD22	2.39	0.58
1:4:334:PHE:CZ	1:4:388:LEU:HD22	2.39	0.58
1:B:334:PHE:CZ	1:B:388:LEU:HD22	2.39	0.58
1:I:334:PHE:CZ	1:I:388:LEU:HD22	2.39	0.58
1:P:526:GLY:N	1:P:529:ASP:OD2	2.35	0.58
1:X:687:GLU:HG3	1:X:687:GLU:O	2.03	0.58
1:c:334:PHE:CZ	1:c:388:LEU:HD22	2.39	0.58
1:n:334:PHE:CZ	1:n:388:LEU:HD22	2.39	0.58
1:r:334:PHE:CZ	1:r:388:LEU:HD22	2.39	0.58
1:u:246:TYR:OH	1:u:363:VAL:O	2.21	0.58
1:u:415:SER:HB2	1:u:417:TYR:CE2	2.38	0.58
1:w:246:TYR:OH	1:w:363:VAL:O	2.21	0.58
1:1:334:PHE:CZ	1:1:388:LEU:HD22	2.39	0.58
1:3:246:TYR:OH	1:3:363:VAL:O	2.21	0.58
1:3:420:SER:N	1:3:731:ASN:O	2.32	0.58
1:4:246:TYR:OH	1:4:363:VAL:O	2.21	0.58
1:8:420:SER:N	1:8:731:ASN:O	2.32	0.58
1:8:526:GLY:N	1:8:529:ASP:OD2	2.35	0.58
1:H:687:GLU:HG3	1:H:687:GLU:O	2.04	0.58
1:Q:687:GLU:HG3	1:Q:687:GLU:O	2.03	0.58
1:S:334:PHE:CZ	1:S:388:LEU:HD22	2.39	0.58
1:Y:525:ALA:O	1:Y:559:SER:OG	2.18	0.58
1:Z:484:LYS:HE2	1:Z:557:PHE:CE2	2.39	0.58
1:i:687:GLU:HG3	1:i:687:GLU:O	2.03	0.58
1:o:687:GLU:HG3	1:o:687:GLU:O	2.03	0.58
1:x:334:PHE:CZ	1:x:388:LEU:HD22	2.39	0.58
1:y:415:SER:HB2	1:y:417:TYR:CE2	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:484:LYS:HE2	1:z:557:PHE:CE2	2.39	0.58
1:2:276:ASN:O	1:2:277:ARG:HG3	2.03	0.58
1:4:420:SER:N	1:4:731:ASN:O	2.32	0.58
1:6:334:PHE:CZ	1:6:388:LEU:HD22	2.39	0.58
1:8:276:ASN:O	1:8:277:ARG:HG3	2.03	0.58
1:8:484:LYS:HE2	1:8:557:PHE:CE2	2.39	0.58
1:D:420:SER:N	1:D:731:ASN:O	2.32	0.58
1:E:246:TYR:OH	1:E:363:VAL:O	2.21	0.58
1:E:484:LYS:HE2	1:E:557:PHE:CE2	2.39	0.58
1:I:246:TYR:OH	1:I:363:VAL:O	2.21	0.58
1:J:276:ASN:O	1:J:277:ARG:HG3	2.03	0.58
1:U:334:PHE:CZ	1:U:388:LEU:HD22	2.39	0.58
1:W:334:PHE:CZ	1:W:388:LEU:HD22	2.39	0.58
1:W:415:SER:HB2	1:W:417:TYR:CE2	2.38	0.58
1:W:484:LYS:HE2	1:W:557:PHE:CE2	2.39	0.58
1:Z:276:ASN:O	1:Z:277:ARG:HG3	2.03	0.58
1:f:420:SER:N	1:f:731:ASN:O	2.32	0.58
1:j:526:GLY:N	1:j:529:ASP:OD2	2.35	0.58
1:k:246:TYR:OH	1:k:363:VAL:O	2.21	0.58
1:r:276:ASN:O	1:r:277:ARG:HG3	2.03	0.58
1:u:526:GLY:N	1:u:529:ASP:OD2	2.35	0.58
1:w:484:LYS:HE2	1:w:557:PHE:CE2	2.39	0.58
1:x:687:GLU:O	1:x:687:GLU:HG3	2.03	0.58
1:5:687:GLU:HG3	1:5:687:GLU:O	2.04	0.58
1:6:415:SER:HB2	1:6:417:TYR:CE2	2.38	0.58
1:6:484:LYS:HE2	1:6:557:PHE:CE2	2.39	0.58
1:A:334:PHE:CZ	1:A:388:LEU:HD22	2.39	0.58
1:B:484:LYS:HE2	1:B:557:PHE:CE2	2.39	0.58
1:D:246:TYR:OH	1:D:363:VAL:O	2.21	0.58
1:E:525:ALA:O	1:E:559:SER:OG	2.18	0.58
1:I:687:GLU:HG3	1:I:687:GLU:O	2.03	0.58
1:L:484:LYS:HE2	1:L:557:PHE:CE2	2.39	0.58
1:N:687:GLU:HG3	1:N:687:GLU:O	2.03	0.58
1:S:276:ASN:O	1:S:277:ARG:HG3	2.03	0.58
1:T:276:ASN:O	1:T:277:ARG:HG3	2.03	0.58
1:a:484:LYS:HE2	1:a:557:PHE:CE2	2.39	0.58
1:a:687:GLU:HG3	1:a:687:GLU:O	2.03	0.58
1:d:484:LYS:HE2	1:d:557:PHE:CE2	2.39	0.58
1:k:420:SER:N	1:k:731:ASN:O	2.32	0.58
1:k:687:GLU:HG3	1:k:687:GLU:O	2.03	0.58
1:n:484:LYS:HE2	1:n:557:PHE:CE2	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:415:SER:HB2	1:p:417:TYR:CE2	2.38	0.58
1:s:246:TYR:OH	1:s:363:VAL:O	2.21	0.58
1:u:687:GLU:HG3	1:u:687:GLU:O	2.03	0.58
1:1:420:SER:N	1:1:731:ASN:O	2.32	0.58
1:6:246:TYR:OH	1:6:363:VAL:O	2.21	0.58
1:D:484:LYS:HE2	1:D:557:PHE:CE2	2.39	0.58
1:G:484:LYS:HE2	1:G:557:PHE:CE2	2.39	0.58
1:H:415:SER:HB2	1:H:417:TYR:CE2	2.38	0.58
1:I:526:GLY:N	1:I:529:ASP:OD2	2.35	0.58
1:K:420:SER:N	1:K:731:ASN:O	2.32	0.58
1:U:246:TYR:OH	1:U:363:VAL:O	2.21	0.58
1:V:415:SER:HB2	1:V:417:TYR:CE2	2.38	0.58
1:V:526:GLY:N	1:V:529:ASP:OD2	2.35	0.58
1:m:276:ASN:O	1:m:277:ARG:HG3	2.03	0.58
1:s:334:PHE:CZ	1:s:388:LEU:HD22	2.39	0.58
1:t:484:LYS:HE2	1:t:557:PHE:CE2	2.39	0.58
1:1:484:LYS:HE2	1:1:557:PHE:CE2	2.39	0.58
1:3:484:LYS:HE2	1:3:557:PHE:CE2	2.39	0.58
1:3:687:GLU:HG3	1:3:687:GLU:O	2.03	0.58
1:5:276:ASN:O	1:5:277:ARG:HG3	2.03	0.58
1:5:415:SER:HB2	1:5:417:TYR:CE2	2.38	0.58
1:B:420:SER:N	1:B:731:ASN:O	2.32	0.57
1:D:687:GLU:HG3	1:D:687:GLU:O	2.04	0.57
1:E:420:SER:N	1:E:731:ASN:O	2.32	0.57
1:H:484:LYS:HE2	1:H:557:PHE:CE2	2.39	0.57
1:V:687:GLU:HG3	1:V:687:GLU:O	2.03	0.57
1:W:246:TYR:OH	1:W:363:VAL:O	2.21	0.57
1:g:484:LYS:HE2	1:g:557:PHE:CE2	2.39	0.57
1:k:484:LYS:HE2	1:k:557:PHE:CE2	2.39	0.57
1:v:334:PHE:CZ	1:v:388:LEU:HD22	2.39	0.57
1:y:687:GLU:HG3	1:y:687:GLU:O	2.03	0.57
1:z:334:PHE:CZ	1:z:388:LEU:HD22	2.39	0.57
1:5:484:LYS:HE2	1:5:557:PHE:CE2	2.39	0.57
1:C:484:LYS:HE2	1:C:557:PHE:CE2	2.39	0.57
1:H:276:ASN:O	1:H:277:ARG:HG3	2.03	0.57
1:L:334:PHE:CZ	1:L:388:LEU:HD22	2.39	0.57
1:e:484:LYS:HE2	1:e:557:PHE:CE2	2.39	0.57
1:g:687:GLU:HG3	1:g:687:GLU:O	2.03	0.57
1:p:687:GLU:O	1:p:687:GLU:HG3	2.03	0.57
1:A:687:GLU:HG3	1:A:687:GLU:O	2.03	0.57
1:C:687:GLU:HG3	1:C:687:GLU:O	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:687:GLU:HG3	1:F:687:GLU:O	2.03	0.57
1:O:484:LYS:HE2	1:O:557:PHE:CE2	2.39	0.57
1:S:484:LYS:HE2	1:S:557:PHE:CE2	2.39	0.57
1:X:484:LYS:HE2	1:X:557:PHE:CE2	2.39	0.57
1:a:334:PHE:CZ	1:a:388:LEU:HD22	2.39	0.57
1:b:223:HIS:O	1:b:238:THR:OG1	2.12	0.57
1:c:484:LYS:HE2	1:c:557:PHE:CE2	2.39	0.57
1:c:526:GLY:N	1:c:529:ASP:OD2	2.35	0.57
1:d:526:GLY:N	1:d:529:ASP:OD2	2.35	0.57
1:n:526:GLY:N	1:n:529:ASP:OD2	2.35	0.57
1:o:246:TYR:OH	1:o:363:VAL:O	2.21	0.57
1:p:526:GLY:N	1:p:529:ASP:OD2	2.35	0.57
1:r:484:LYS:HE2	1:r:557:PHE:CE2	2.39	0.57
1:t:334:PHE:CZ	1:t:388:LEU:HD22	2.39	0.57
1:w:420:SER:N	1:w:731:ASN:O	2.32	0.57
1:F:334:PHE:CZ	1:F:388:LEU:HD22	2.39	0.57
1:G:334:PHE:CZ	1:G:388:LEU:HD22	2.39	0.57
1:I:484:LYS:HE2	1:I:557:PHE:CE2	2.39	0.57
1:L:279:HIS:CD2	1:L:355:PRO:HB3	2.40	0.57
1:P:484:LYS:HE2	1:P:557:PHE:CE2	2.39	0.57
1:T:687:GLU:HG3	1:T:687:GLU:O	2.03	0.57
1:c:246:TYR:OH	1:c:363:VAL:O	2.21	0.57
1:c:279:HIS:CD2	1:c:355:PRO:HB3	2.40	0.57
1:e:279:HIS:CD2	1:e:355:PRO:HB3	2.40	0.57
1:h:334:PHE:CZ	1:h:388:LEU:HD22	2.39	0.57
1:j:334:PHE:CZ	1:j:388:LEU:HD22	2.39	0.57
1:l:484:LYS:HE2	1:l:557:PHE:CE2	2.39	0.57
1:m:687:GLU:O	1:m:687:GLU:HG3	2.03	0.57
1:o:484:LYS:HE2	1:o:557:PHE:CE2	2.39	0.57
1:u:484:LYS:HE2	1:u:557:PHE:CE2	2.39	0.57
1:y:334:PHE:CZ	1:y:388:LEU:HD22	2.39	0.57
1:y:484:LYS:HE2	1:y:557:PHE:CE2	2.39	0.57
1:z:279:HIS:CD2	1:z:355:PRO:HB3	2.40	0.57
1:7:279:HIS:CD2	1:7:355:PRO:HB3	2.40	0.57
1:E:538:ILE:HG21	1:E:555:LEU:HD23	1.87	0.57
1:K:279:HIS:CD2	1:K:355:PRO:HB3	2.40	0.57
1:K:526:GLY:N	1:K:529:ASP:OD2	2.35	0.57
1:P:334:PHE:CZ	1:P:388:LEU:HD22	2.39	0.57
1:P:687:GLU:HG3	1:P:687:GLU:O	2.04	0.57
1:R:538:ILE:HG21	1:R:555:LEU:HD23	1.87	0.57
1:S:420:SER:N	1:S:731:ASN:O	2.32	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:246:TYR:OH	1:X:363:VAL:O	2.21	0.57
1:Y:279:HIS:CD2	1:Y:355:PRO:HB3	2.40	0.57
1:a:279:HIS:CD2	1:a:355:PRO:HB3	2.40	0.57
1:b:246:TYR:OH	1:b:363:VAL:O	2.21	0.57
1:e:526:GLY:N	1:e:529:ASP:OD2	2.35	0.57
1:j:484:LYS:HE2	1:j:557:PHE:CE2	2.39	0.57
1:k:538:ILE:HG21	1:k:555:LEU:HD23	1.87	0.57
1:v:687:GLU:HG3	1:v:687:GLU:O	2.03	0.57
1:w:276:ASN:O	1:w:277:ARG:HG3	2.03	0.57
1:w:538:ILE:HG21	1:w:555:LEU:HD23	1.87	0.57
1:3:279:HIS:CD2	1:3:355:PRO:HB3	2.40	0.57
1:3:334:PHE:CZ	1:3:388:LEU:HD22	2.39	0.57
1:7:484:LYS:HE2	1:7:557:PHE:CE2	2.39	0.57
1:8:538:ILE:HG21	1:8:555:LEU:HD23	1.87	0.57
1:D:538:ILE:HG21	1:D:555:LEU:HD23	1.87	0.57
1:F:484:LYS:HE2	1:F:557:PHE:CE2	2.39	0.57
1:J:484:LYS:HE2	1:J:557:PHE:CE2	2.39	0.57
1:M:334:PHE:CZ	1:M:388:LEU:HD22	2.39	0.57
1:O:279:HIS:CD2	1:O:355:PRO:HB3	2.40	0.57
1:R:687:GLU:O	1:R:687:GLU:HG3	2.03	0.57
1:X:279:HIS:CD2	1:X:355:PRO:HB3	2.40	0.57
1:Y:484:LYS:HE2	1:Y:557:PHE:CE2	2.39	0.57
1:Y:687:GLU:HG3	1:Y:687:GLU:O	2.03	0.57
1:Z:538:ILE:HG21	1:Z:555:LEU:HD23	1.87	0.57
1:e:246:TYR:OH	1:e:363:VAL:O	2.21	0.57
1:h:279:HIS:CD2	1:h:355:PRO:HB3	2.40	0.57
1:i:484:LYS:HE2	1:i:557:PHE:CE2	2.39	0.57
1:l:279:HIS:CD2	1:l:355:PRO:HB3	2.40	0.57
1:o:279:HIS:CD2	1:o:355:PRO:HB3	2.40	0.57
1:q:538:ILE:HG21	1:q:555:LEU:HD23	1.87	0.57
1:1:246:TYR:OH	1:1:363:VAL:O	2.21	0.57
1:7:687:GLU:HG3	1:7:687:GLU:O	2.03	0.57
1:A:538:ILE:HG21	1:A:555:LEU:HD23	1.87	0.57
1:B:246:TYR:OH	1:B:363:VAL:O	2.21	0.57
1:D:279:HIS:CD2	1:D:355:PRO:HB3	2.40	0.57
1:E:276:ASN:O	1:E:277:ARG:HG3	2.03	0.57
1:J:687:GLU:O	1:J:687:GLU:HG3	2.03	0.57
1:M:279:HIS:CD2	1:M:355:PRO:HB3	2.40	0.57
1:V:279:HIS:CD2	1:V:355:PRO:HB3	2.40	0.57
1:b:484:LYS:HE2	1:b:557:PHE:CE2	2.39	0.57
1:b:538:ILE:HG21	1:b:555:LEU:HD23	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:223:HIS:O	1:f:238:THR:OG1	2.12	0.57
1:f:246:TYR:OH	1:f:363:VAL:O	2.21	0.57
1:f:526:GLY:N	1:f:529:ASP:OD2	2.35	0.57
1:g:538:ILE:HG21	1:g:555:LEU:HD23	1.87	0.57
1:j:687:GLU:HG3	1:j:687:GLU:O	2.04	0.57
1:m:279:HIS:CD2	1:m:355:PRO:HB3	2.40	0.57
1:p:279:HIS:CD2	1:p:355:PRO:HB3	2.40	0.57
1:v:538:ILE:HG21	1:v:555:LEU:HD23	1.87	0.57
1:2:484:LYS:HE2	1:2:557:PHE:CE2	2.39	0.57
1:4:279:HIS:CD2	1:4:355:PRO:HB3	2.40	0.57
1:A:484:LYS:HE2	1:A:557:PHE:CE2	2.39	0.57
1:C:538:ILE:HG21	1:C:555:LEU:HD23	1.87	0.57
1:O:334:PHE:CZ	1:O:388:LEU:HD22	2.39	0.57
1:P:538:ILE:HG21	1:P:555:LEU:HD23	1.87	0.57
1:Q:484:LYS:HE2	1:Q:557:PHE:CE2	2.39	0.57
1:T:279:HIS:CD2	1:T:355:PRO:HB3	2.40	0.57
1:U:687:GLU:O	1:U:687:GLU:HG3	2.03	0.57
1:V:484:LYS:HE2	1:V:557:PHE:CE2	2.39	0.57
1:Y:223:HIS:O	1:Y:238:THR:OG1	2.12	0.57
1:a:254:LEU:N	1:a:265:GLY:O	2.35	0.57
1:c:687:GLU:HG3	1:c:687:GLU:O	2.03	0.57
1:f:484:LYS:HE2	1:f:557:PHE:CE2	2.39	0.57
1:f:538:ILE:HG21	1:f:555:LEU:HD23	1.87	0.57
1:j:538:ILE:HG21	1:j:555:LEU:HD23	1.87	0.57
1:k:279:HIS:CD2	1:k:355:PRO:HB3	2.40	0.57
1:p:484:LYS:HE2	1:p:557:PHE:CE2	2.39	0.57
1:q:484:LYS:HE2	1:q:557:PHE:CE2	2.39	0.57
1:q:687:GLU:HG3	1:q:687:GLU:O	2.03	0.57
1:v:246:TYR:OH	1:v:363:VAL:O	2.21	0.57
1:x:484:LYS:HE2	1:x:557:PHE:CE2	2.39	0.57
1:2:687:GLU:O	1:2:687:GLU:HG3	2.03	0.57
1:4:526:GLY:N	1:4:529:ASP:OD2	2.35	0.57
1:A:246:TYR:OH	1:A:363:VAL:O	2.21	0.57
1:B:279:HIS:CD2	1:B:355:PRO:HB3	2.40	0.57
1:F:538:ILE:HG21	1:F:555:LEU:HD23	1.87	0.57
1:M:687:GLU:O	1:M:687:GLU:HG3	2.03	0.57
1:N:279:HIS:CD2	1:N:355:PRO:HB3	2.40	0.57
1:N:484:LYS:HE2	1:N:557:PHE:CE2	2.39	0.57
1:O:538:ILE:HG21	1:O:555:LEU:HD23	1.87	0.57
1:Q:538:ILE:HG21	1:Q:555:LEU:HD23	1.87	0.57
1:R:484:LYS:HE2	1:R:557:PHE:CE2	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:484:LYS:HE2	1:U:557:PHE:CE2	2.39	0.57
1:e:687:GLU:O	1:e:687:GLU:HG3	2.03	0.57
1:i:279:HIS:CD2	1:i:355:PRO:HB3	2.40	0.57
1:l:334:PHE:CZ	1:l:388:LEU:HD22	2.39	0.57
1:l:538:ILE:HG21	1:l:555:LEU:HD23	1.87	0.57
1:r:420:SER:N	1:r:731:ASN:O	2.32	0.57
1:s:484:LYS:HE2	1:s:557:PHE:CE2	2.39	0.57
1:s:526:GLY:N	1:s:529:ASP:OD2	2.35	0.57
1:v:484:LYS:HE2	1:v:557:PHE:CE2	2.39	0.57
1:z:538:ILE:HG21	1:z:555:LEU:HD23	1.87	0.57
1:1:279:HIS:CD2	1:1:355:PRO:HB3	2.40	0.57
1:5:279:HIS:CD2	1:5:355:PRO:HB3	2.40	0.57
1:H:279:HIS:CD2	1:H:355:PRO:HB3	2.40	0.57
1:I:279:HIS:CD2	1:I:355:PRO:HB3	2.40	0.57
1:I:538:ILE:HG21	1:I:555:LEU:HD23	1.87	0.57
1:J:538:ILE:HG21	1:J:555:LEU:HD23	1.87	0.57
1:L:538:ILE:HG21	1:L:555:LEU:HD23	1.87	0.57
1:T:538:ILE:HG21	1:T:555:LEU:HD23	1.87	0.57
1:U:526:GLY:N	1:U:529:ASP:OD2	2.35	0.57
1:b:526:GLY:N	1:b:529:ASP:OD2	2.35	0.57
1:h:687:GLU:O	1:h:687:GLU:HG3	2.03	0.57
1:o:525:ALA:O	1:o:559:SER:OG	2.18	0.57
1:s:687:GLU:HG3	1:s:687:GLU:O	2.03	0.57
1:u:279:HIS:CD2	1:u:355:PRO:HB3	2.40	0.57
1:x:538:ILE:HG21	1:x:555:LEU:HD23	1.87	0.57
1:y:538:ILE:HG21	1:y:555:LEU:HD23	1.87	0.57
1:2:538:ILE:HG21	1:2:555:LEU:HD23	1.87	0.57
1:C:279:HIS:CD2	1:C:355:PRO:HB3	2.40	0.56
1:J:279:HIS:CD2	1:J:355:PRO:HB3	2.40	0.56
1:R:279:HIS:CD2	1:R:355:PRO:HB3	2.40	0.56
1:S:538:ILE:HG21	1:S:555:LEU:HD23	1.87	0.56
1:T:254:LEU:N	1:T:265:GLY:O	2.35	0.56
1:W:687:GLU:HG3	1:W:687:GLU:O	2.04	0.56
1:Z:246:TYR:OH	1:Z:363:VAL:O	2.21	0.56
1:b:334:PHE:CZ	1:b:388:LEU:HD22	2.39	0.56
1:f:334:PHE:CZ	1:f:388:LEU:HD22	2.39	0.56
1:m:538:ILE:HG21	1:m:555:LEU:HD23	1.87	0.56
1:q:279:HIS:CD2	1:q:355:PRO:HB3	2.40	0.56
1:r:279:HIS:CD2	1:r:355:PRO:HB3	2.40	0.56
1:r:538:ILE:HG21	1:r:555:LEU:HD23	1.87	0.56
1:x:279:HIS:CD2	1:x:355:PRO:HB3	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:279:HIS:CD2	1:2:355:PRO:HB3	2.40	0.56
1:3:254:LEU:N	1:3:265:GLY:O	2.35	0.56
1:6:279:HIS:CD2	1:6:355:PRO:HB3	2.40	0.56
1:6:687:GLU:HG3	1:6:687:GLU:O	2.04	0.56
1:C:344:VAL:H	1:C:643:GLN:HE22	1.54	0.56
1:E:279:HIS:CD2	1:E:355:PRO:HB3	2.40	0.56
1:G:279:HIS:CD2	1:G:355:PRO:HB3	2.40	0.56
1:H:526:GLY:N	1:H:529:ASP:OD2	2.35	0.56
1:H:538:ILE:HG21	1:H:555:LEU:HD23	1.87	0.56
1:M:484:LYS:HE2	1:M:557:PHE:CE2	2.39	0.56
1:S:279:HIS:CD2	1:S:355:PRO:HB3	2.40	0.56
1:S:687:GLU:HG3	1:S:687:GLU:O	2.03	0.56
1:V:538:ILE:HG21	1:V:555:LEU:HD23	1.87	0.56
1:Y:538:ILE:HG21	1:Y:555:LEU:HD23	1.87	0.56
1:d:279:HIS:CD2	1:d:355:PRO:HB3	2.40	0.56
1:g:279:HIS:CD2	1:g:355:PRO:HB3	2.40	0.56
1:g:344:VAL:H	1:g:643:GLN:HE22	1.54	0.56
1:l:420:SER:N	1:l:731:ASN:O	2.32	0.56
1:n:279:HIS:CD2	1:n:355:PRO:HB3	2.40	0.56
1:p:538:ILE:HG21	1:p:555:LEU:HD23	1.87	0.56
1:r:687:GLU:HG3	1:r:687:GLU:O	2.03	0.56
1:s:279:HIS:CD2	1:s:355:PRO:HB3	2.40	0.56
1:u:538:ILE:HG21	1:u:555:LEU:HD23	1.87	0.56
1:3:538:ILE:HG21	1:3:555:LEU:HD23	1.87	0.56
1:5:538:ILE:HG21	1:5:555:LEU:HD23	1.87	0.56
1:8:246:TYR:OH	1:8:363:VAL:O	2.21	0.56
1:F:279:HIS:CD2	1:F:355:PRO:HB3	2.40	0.56
1:G:687:GLU:HG3	1:G:687:GLU:O	2.03	0.56
1:J:478:LYS:O	1:J:505:THR:HG21	2.06	0.56
1:L:687:GLU:HG3	1:L:687:GLU:O	2.03	0.56
1:N:344:VAL:H	1:N:643:GLN:HE22	1.53	0.56
1:N:538:ILE:HG21	1:N:555:LEU:HD23	1.87	0.56
1:O:420:SER:N	1:O:731:ASN:O	2.32	0.56
1:P:344:VAL:H	1:P:643:GLN:HE22	1.54	0.56
1:Q:279:HIS:CD2	1:Q:355:PRO:HB3	2.40	0.56
1:U:279:HIS:CD2	1:U:355:PRO:HB3	2.40	0.56
1:W:279:HIS:CD2	1:W:355:PRO:HB3	2.40	0.56
1:Z:334:PHE:CZ	1:Z:388:LEU:HD22	2.39	0.56
1:a:526:GLY:N	1:a:529:ASP:OD2	2.35	0.56
1:a:538:ILE:HG21	1:a:555:LEU:HD23	1.87	0.56
1:b:344:VAL:H	1:b:643:GLN:HE22	1.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:687:GLU:HG3	1:b:687:GLU:O	2.03	0.56
1:d:538:ILE:HG21	1:d:555:LEU:HD23	1.87	0.56
1:f:279:HIS:CD2	1:f:355:PRO:HB3	2.40	0.56
1:f:344:VAL:H	1:f:643:GLN:HE22	1.54	0.56
1:f:687:GLU:HG3	1:f:687:GLU:O	2.03	0.56
1:h:484:LYS:HE2	1:h:557:PHE:CE2	2.39	0.56
1:i:478:LYS:O	1:i:505:THR:HG21	2.06	0.56
1:i:538:ILE:HG21	1:i:555:LEU:HD23	1.87	0.56
1:j:344:VAL:H	1:j:643:GLN:HE22	1.54	0.56
1:m:484:LYS:HE2	1:m:557:PHE:CE2	2.39	0.56
1:n:538:ILE:HG21	1:n:555:LEU:HD23	1.87	0.56
1:r:478:LYS:O	1:r:505:THR:HG21	2.06	0.56
1:t:279:HIS:CD2	1:t:355:PRO:HB3	2.40	0.56
1:w:279:HIS:CD2	1:w:355:PRO:HB3	2.40	0.56
1:1:344:VAL:H	1:1:643:GLN:HE22	1.54	0.56
1:3:526:GLY:N	1:3:529:ASP:OD2	2.35	0.56
1:7:538:ILE:HG21	1:7:555:LEU:HD23	1.87	0.56
1:B:344:VAL:H	1:B:643:GLN:HE22	1.54	0.56
1:E:334:PHE:CZ	1:E:388:LEU:HD22	2.39	0.56
1:E:478:LYS:O	1:E:505:THR:HG21	2.06	0.56
1:K:484:LYS:HE2	1:K:557:PHE:CE2	2.39	0.56
1:M:344:VAL:H	1:M:643:GLN:HE22	1.54	0.56
1:S:478:LYS:O	1:S:505:THR:HG21	2.06	0.56
1:T:478:LYS:O	1:T:505:THR:HG21	2.06	0.56
1:U:538:ILE:HG21	1:U:555:LEU:HD23	1.87	0.56
1:X:344:VAL:H	1:X:643:GLN:HE22	1.54	0.56
1:X:538:ILE:HG21	1:X:555:LEU:HD23	1.87	0.56
1:b:279:HIS:CD2	1:b:355:PRO:HB3	2.40	0.56
1:h:344:VAL:H	1:h:643:GLN:HE22	1.54	0.56
1:h:478:LYS:O	1:h:505:THR:HG21	2.06	0.56
1:m:478:LYS:O	1:m:505:THR:HG21	2.06	0.56
1:o:334:PHE:CZ	1:o:388:LEU:HD22	2.39	0.56
1:o:344:VAL:H	1:o:643:GLN:HE22	1.54	0.56
1:s:538:ILE:HG21	1:s:555:LEU:HD23	1.87	0.56
1:v:344:VAL:H	1:v:643:GLN:HE22	1.54	0.56
1:y:279:HIS:CD2	1:y:355:PRO:HB3	2.40	0.56
1:2:478:LYS:O	1:2:505:THR:HG21	2.06	0.56
1:5:526:GLY:N	1:5:529:ASP:OD2	2.35	0.56
1:8:334:PHE:CZ	1:8:388:LEU:HD22	2.39	0.56
1:A:344:VAL:H	1:A:643:GLN:HE22	1.54	0.56
1:I:478:LYS:O	1:I:505:THR:HG21	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:478:LYS:O	1:M:505:THR:HG21	2.06	0.56
1:N:478:LYS:O	1:N:505:THR:HG21	2.06	0.56
1:S:344:VAL:H	1:S:643:GLN:HE22	1.54	0.56
1:T:484:LYS:HE2	1:T:557:PHE:CE2	2.39	0.56
1:X:334:PHE:CZ	1:X:388:LEU:HD22	2.39	0.56
1:d:478:LYS:O	1:d:505:THR:HG21	2.06	0.56
1:e:344:VAL:H	1:e:643:GLN:HE22	1.54	0.56
1:i:344:VAL:H	1:i:643:GLN:HE22	1.54	0.56
1:j:279:HIS:CD2	1:j:355:PRO:HB3	2.40	0.56
1:j:478:LYS:O	1:j:505:THR:HG21	2.06	0.56
1:n:478:LYS:O	1:n:505:THR:HG21	2.06	0.56
1:n:687:GLU:HG3	1:n:687:GLU:O	2.03	0.56
1:t:478:LYS:O	1:t:505:THR:HG21	2.06	0.56
1:t:687:GLU:HG3	1:t:687:GLU:O	2.03	0.56
1:u:478:LYS:O	1:u:505:THR:HG21	2.06	0.56
1:v:279:HIS:CD2	1:v:355:PRO:HB3	2.40	0.56
1:w:334:PHE:CZ	1:w:388:LEU:HD22	2.39	0.56
1:w:478:LYS:O	1:w:505:THR:HG21	2.06	0.56
1:z:687:GLU:HG3	1:z:687:GLU:O	2.03	0.56
1:4:484:LYS:HE2	1:4:557:PHE:CE2	2.39	0.56
1:A:279:HIS:CD2	1:A:355:PRO:HB3	2.40	0.56
1:C:253:ARG:HH21	1:C:379:GLN:NE2	1.98	0.56
1:G:478:LYS:O	1:G:505:THR:HG21	2.06	0.56
1:J:334:PHE:CZ	1:J:388:LEU:HD22	2.39	0.56
1:L:253:ARG:HH21	1:L:379:GLN:NE2	1.99	0.56
1:M:538:ILE:HG21	1:M:555:LEU:HD23	1.87	0.56
1:O:254:LEU:N	1:O:265:GLY:O	2.35	0.56
1:Q:478:LYS:O	1:Q:505:THR:HG21	2.06	0.56
1:U:478:LYS:O	1:U:505:THR:HG21	2.06	0.56
1:c:344:VAL:H	1:c:643:GLN:HE22	1.54	0.56
1:d:687:GLU:HG3	1:d:687:GLU:O	2.03	0.56
1:g:253:ARG:HH21	1:g:379:GLN:NE2	1.98	0.56
1:o:538:ILE:HG21	1:o:555:LEU:HD23	1.87	0.56
1:r:344:VAL:H	1:r:643:GLN:HE22	1.54	0.56
1:x:478:LYS:O	1:x:505:THR:HG21	2.06	0.56
1:1:478:LYS:O	1:1:505:THR:HG21	2.06	0.56
1:6:254:LEU:N	1:6:265:GLY:O	2.35	0.56
1:8:279:HIS:CD2	1:8:355:PRO:HB3	2.40	0.56
1:B:478:LYS:O	1:B:505:THR:HG21	2.06	0.56
1:B:687:GLU:O	1:B:687:GLU:HG3	2.03	0.56
1:F:478:LYS:O	1:F:505:THR:HG21	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:478:LYS:O	1:H:505:THR:HG21	2.06	0.56
1:J:344:VAL:H	1:J:643:GLN:HE22	1.54	0.56
1:K:478:LYS:O	1:K:505:THR:HG21	2.06	0.56
1:P:279:HIS:CD2	1:P:355:PRO:HB3	2.40	0.56
1:P:478:LYS:O	1:P:505:THR:HG21	2.06	0.56
1:V:246:TYR:OH	1:V:363:VAL:O	2.21	0.56
1:W:254:LEU:N	1:W:265:GLY:O	2.35	0.56
1:W:420:SER:N	1:W:731:ASN:O	2.32	0.56
1:Y:420:SER:N	1:Y:731:ASN:O	2.32	0.56
1:a:478:LYS:O	1:a:505:THR:HG21	2.06	0.56
1:h:538:ILE:HG21	1:h:555:LEU:HD23	1.87	0.56
1:k:344:VAL:H	1:k:643:GLN:HE22	1.54	0.56
1:n:344:VAL:H	1:n:643:GLN:HE22	1.54	0.56
1:o:254:LEU:N	1:o:265:GLY:O	2.35	0.56
1:p:246:TYR:OH	1:p:363:VAL:O	2.21	0.56
1:q:344:VAL:H	1:q:643:GLN:HE22	1.54	0.56
1:s:478:LYS:O	1:s:505:THR:HG21	2.06	0.56
1:y:478:LYS:O	1:y:505:THR:HG21	2.06	0.56
1:z:253:ARG:HH21	1:z:379:GLN:NE2	1.99	0.56
1:2:344:VAL:H	1:2:643:GLN:HE22	1.54	0.56
1:6:344:VAL:H	1:6:643:GLN:HE22	1.54	0.56
1:7:334:PHE:CZ	1:7:388:LEU:HD22	2.39	0.56
1:A:420:SER:N	1:A:731:ASN:O	2.32	0.56
1:G:538:ILE:HG21	1:G:555:LEU:HD23	1.87	0.56
1:J:558:THR:HG23	1:J:610:TYR:OH	2.06	0.56
1:R:344:VAL:H	1:R:643:GLN:HE22	1.54	0.56
1:W:344:VAL:H	1:W:643:GLN:HE22	1.54	0.56
1:W:526:GLY:N	1:W:529:ASP:OD2	2.35	0.56
1:Z:254:LEU:N	1:Z:265:GLY:O	2.35	0.56
1:Z:279:HIS:CD2	1:Z:355:PRO:HB3	2.40	0.56
1:d:344:VAL:H	1:d:643:GLN:HE22	1.54	0.56
1:e:420:SER:N	1:e:731:ASN:O	2.32	0.56
1:l:254:LEU:N	1:l:265:GLY:O	2.35	0.56
1:v:254:LEU:N	1:v:265:GLY:O	2.35	0.56
1:v:420:SER:N	1:v:731:ASN:O	2.32	0.56
1:1:558:THR:HG23	1:1:610:TYR:OH	2.06	0.56
1:2:558:THR:HG23	1:2:610:TYR:OH	2.06	0.56
1:3:478:LYS:O	1:3:505:THR:HG21	2.06	0.56
1:4:478:LYS:O	1:4:505:THR:HG21	2.06	0.56
1:5:478:LYS:O	1:5:505:THR:HG21	2.06	0.56
1:6:526:GLY:N	1:6:529:ASP:OD2	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:558:THR:HG23	1:B:610:TYR:OH	2.06	0.56
1:D:334:PHE:CZ	1:D:388:LEU:HD22	2.39	0.56
1:D:344:VAL:H	1:D:643:GLN:HE22	1.54	0.56
1:K:558:THR:HG23	1:K:610:TYR:OH	2.06	0.56
1:T:558:THR:HG23	1:T:610:TYR:OH	2.06	0.56
1:X:254:LEU:N	1:X:265:GLY:O	2.35	0.56
1:Y:334:PHE:CZ	1:Y:388:LEU:HD22	2.39	0.56
1:j:558:THR:HG23	1:j:610:TYR:OH	2.06	0.56
1:k:334:PHE:CZ	1:k:388:LEU:HD22	2.39	0.56
1:l:478:LYS:O	1:l:505:THR:HG21	2.06	0.56
1:n:558:THR:HG23	1:n:610:TYR:OH	2.06	0.56
1:q:334:PHE:CZ	1:q:388:LEU:HD22	2.39	0.56
1:t:538:ILE:HG21	1:t:555:LEU:HD23	1.87	0.56
1:2:334:PHE:CZ	1:2:388:LEU:HD22	2.39	0.56
1:4:558:THR:HG23	1:4:610:TYR:OH	2.06	0.56
1:5:334:PHE:CZ	1:5:388:LEU:HD22	2.39	0.56
1:8:254:LEU:N	1:8:265:GLY:O	2.35	0.56
1:A:254:LEU:N	1:A:265:GLY:O	2.35	0.56
1:E:558:THR:HG23	1:E:610:TYR:OH	2.06	0.56
1:L:558:THR:HG23	1:L:610:TYR:OH	2.06	0.56
1:P:558:THR:HG23	1:P:610:TYR:OH	2.06	0.56
1:d:558:THR:HG23	1:d:610:TYR:OH	2.06	0.56
1:e:538:ILE:HG21	1:e:555:LEU:HD23	1.87	0.56
1:g:558:THR:HG23	1:g:610:TYR:OH	2.06	0.56
1:m:558:THR:HG23	1:m:610:TYR:OH	2.06	0.56
1:o:223:HIS:O	1:o:238:THR:OG1	2.12	0.56
1:z:558:THR:HG23	1:z:610:TYR:OH	2.06	0.56
1:1:687:GLU:HG3	1:1:687:GLU:O	2.03	0.56
1:7:420:SER:N	1:7:731:ASN:O	2.32	0.56
1:B:538:ILE:HG21	1:B:555:LEU:HD23	1.87	0.55
1:C:558:THR:HG23	1:C:610:TYR:OH	2.06	0.55
1:O:478:LYS:O	1:O:505:THR:HG21	2.06	0.55
1:R:334:PHE:CZ	1:R:388:LEU:HD22	2.39	0.55
1:R:478:LYS:O	1:R:505:THR:HG21	2.06	0.55
1:V:558:THR:HG23	1:V:610:TYR:OH	2.06	0.55
1:c:538:ILE:HG21	1:c:555:LEU:HD23	1.87	0.55
1:e:223:HIS:O	1:e:238:THR:OG1	2.12	0.55
1:p:558:THR:HG23	1:p:610:TYR:OH	2.06	0.55
1:t:253:ARG:HH21	1:t:379:GLN:NE2	1.99	0.55
1:w:558:THR:HG23	1:w:610:TYR:OH	2.06	0.55
1:z:478:LYS:O	1:z:505:THR:HG21	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:538:ILE:HG21	1:1:555:LEU:HD23	1.87	0.55
1:6:420:SER:N	1:6:731:ASN:O	2.32	0.55
1:H:334:PHE:CZ	1:H:388:LEU:HD22	2.39	0.55
1:X:223:HIS:O	1:X:238:THR:OG1	2.12	0.55
1:Y:253:ARG:HH21	1:Y:379:GLN:NE2	1.99	0.55
1:c:420:SER:N	1:c:731:ASN:O	2.32	0.55
1:m:246:TYR:OH	1:m:363:VAL:O	2.21	0.55
1:q:478:LYS:O	1:q:505:THR:HG21	2.06	0.55
1:6:538:ILE:HG21	1:6:555:LEU:HD23	1.87	0.55
1:C:427:MET:SD	1:C:464:PHE:HD1	2.30	0.55
1:E:344:VAL:H	1:E:643:GLN:HE22	1.54	0.55
1:L:478:LYS:O	1:L:505:THR:HG21	2.06	0.55
1:T:246:TYR:OH	1:T:363:VAL:O	2.21	0.55
1:W:478:LYS:O	1:W:505:THR:HG21	2.06	0.55
1:W:538:ILE:HG21	1:W:555:LEU:HD23	1.87	0.55
1:Z:427:MET:SD	1:Z:464:PHE:HD1	2.30	0.55
1:Z:558:THR:HG23	1:Z:610:TYR:OH	2.06	0.55
1:d:254:LEU:N	1:d:265:GLY:O	2.35	0.55
1:g:427:MET:SD	1:g:464:PHE:HD1	2.30	0.55
1:g:478:LYS:O	1:g:505:THR:HG21	2.06	0.55
1:h:558:THR:HG23	1:h:610:TYR:OH	2.06	0.55
1:k:478:LYS:O	1:k:505:THR:HG21	2.06	0.55
1:t:558:THR:HG23	1:t:610:TYR:OH	2.06	0.55
1:w:344:VAL:H	1:w:643:GLN:HE22	1.54	0.55
1:4:538:ILE:HG21	1:4:555:LEU:HD23	1.87	0.55
1:8:427:MET:SD	1:8:464:PHE:HD1	2.30	0.55
1:8:558:THR:HG23	1:8:610:TYR:OH	2.06	0.55
1:C:478:LYS:O	1:C:505:THR:HG21	2.06	0.55
1:D:427:MET:SD	1:D:464:PHE:HD1	2.30	0.55
1:G:558:THR:HG23	1:G:610:TYR:OH	2.06	0.55
1:H:344:VAL:H	1:H:643:GLN:HE22	1.54	0.55
1:K:538:ILE:HG21	1:K:555:LEU:HD23	1.87	0.55
1:M:558:THR:HG23	1:M:610:TYR:OH	2.06	0.55
1:b:254:LEU:N	1:b:265:GLY:O	2.35	0.55
1:b:427:MET:SD	1:b:464:PHE:HD1	2.30	0.55
1:e:558:THR:HG23	1:e:610:TYR:OH	2.06	0.55
1:f:254:LEU:N	1:f:265:GLY:O	2.35	0.55
1:f:427:MET:SD	1:f:464:PHE:HD1	2.30	0.55
1:o:558:THR:HG23	1:o:610:TYR:OH	2.06	0.55
1:5:344:VAL:H	1:5:643:GLN:HE22	1.54	0.55
1:6:478:LYS:O	1:6:505:THR:HG21	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:253:ARG:HH21	1:7:379:GLN:NE2	1.99	0.55
1:D:478:LYS:O	1:D:505:THR:HG21	2.06	0.55
1:G:344:VAL:H	1:G:643:GLN:HE22	1.54	0.55
1:I:427:MET:SD	1:I:464:PHE:HD1	2.30	0.55
1:L:427:MET:SD	1:L:464:PHE:HD1	2.30	0.55
1:M:427:MET:SD	1:M:464:PHE:HD1	2.30	0.55
1:O:427:MET:SD	1:O:464:PHE:HD1	2.30	0.55
1:X:558:THR:HG23	1:X:610:TYR:OH	2.06	0.55
1:Y:344:VAL:H	1:Y:643:GLN:HE22	1.54	0.55
1:b:558:THR:HG23	1:b:610:TYR:OH	2.06	0.55
1:c:478:LYS:O	1:c:505:THR:HG21	2.06	0.55
1:c:558:THR:HG23	1:c:610:TYR:OH	2.06	0.55
1:f:558:THR:HG23	1:f:610:TYR:OH	2.06	0.55
1:i:421:GLN:HE22	1:j:342:PRO:HB3	1.72	0.55
1:k:427:MET:SD	1:k:464:PHE:HD1	2.30	0.55
1:u:427:MET:SD	1:u:464:PHE:HD1	2.30	0.55
1:z:427:MET:SD	1:z:464:PHE:HD1	2.30	0.55
1:A:558:THR:HG23	1:A:610:TYR:OH	2.06	0.55
1:F:558:THR:HG23	1:F:610:TYR:OH	2.06	0.55
1:K:427:MET:SD	1:K:464:PHE:HD1	2.30	0.55
1:Q:427:MET:SD	1:Q:464:PHE:HD1	2.30	0.55
1:V:344:VAL:H	1:V:643:GLN:HE22	1.54	0.55
1:Z:478:LYS:O	1:Z:505:THR:HG21	2.06	0.55
1:e:253:ARG:HH21	1:e:379:GLN:NE2	1.99	0.55
1:h:427:MET:SD	1:h:464:PHE:HD1	2.30	0.55
1:l:427:MET:SD	1:l:464:PHE:HD1	2.30	0.55
1:p:344:VAL:H	1:p:643:GLN:HE22	1.54	0.55
1:t:344:VAL:H	1:t:643:GLN:HE22	1.54	0.55
1:5:254:LEU:N	1:5:265:GLY:O	2.35	0.55
1:7:344:VAL:H	1:7:643:GLN:HE22	1.53	0.55
1:G:427:MET:SD	1:G:464:PHE:HD1	2.30	0.55
1:O:560:GLU:O	1:O:563:ILE:HG12	2.07	0.55
1:T:334:PHE:CZ	1:T:388:LEU:HD22	2.39	0.55
1:W:427:MET:SD	1:W:464:PHE:HD1	2.30	0.55
1:X:478:LYS:O	1:X:505:THR:HG21	2.06	0.55
1:b:478:LYS:O	1:b:505:THR:HG21	2.06	0.55
1:d:427:MET:SD	1:d:464:PHE:HD1	2.30	0.55
1:e:478:LYS:O	1:e:505:THR:HG21	2.06	0.55
1:l:560:GLU:O	1:l:563:ILE:HG12	2.07	0.55
1:m:334:PHE:CZ	1:m:388:LEU:HD22	2.39	0.55
1:n:254:LEU:N	1:n:265:GLY:O	2.35	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:427:MET:SD	1:n:464:PHE:HD1	2.30	0.55
1:o:420:SER:N	1:o:731:ASN:O	2.32	0.55
1:o:427:MET:SD	1:o:464:PHE:HD1	2.30	0.55
1:p:427:MET:SD	1:p:464:PHE:HD1	2.30	0.55
1:s:427:MET:SD	1:s:464:PHE:HD1	2.30	0.55
1:t:427:MET:SD	1:t:464:PHE:HD1	2.30	0.55
1:v:558:THR:HG23	1:v:610:TYR:OH	2.06	0.55
1:x:427:MET:SD	1:x:464:PHE:HD1	2.30	0.55
1:y:246:TYR:OH	1:y:363:VAL:O	2.21	0.55
1:y:558:THR:HG23	1:y:610:TYR:OH	2.06	0.55
1:4:427:MET:SD	1:4:464:PHE:HD1	2.30	0.55
1:7:427:MET:SD	1:7:464:PHE:HD1	2.30	0.55
1:8:478:LYS:O	1:8:505:THR:HG21	2.06	0.55
1:A:478:LYS:O	1:A:505:THR:HG21	2.06	0.55
1:C:334:PHE:CZ	1:C:388:LEU:HD22	2.39	0.55
1:D:560:GLU:O	1:D:563:ILE:HG12	2.07	0.55
1:Q:344:VAL:H	1:Q:643:GLN:HE22	1.53	0.55
1:S:560:GLU:O	1:S:563:ILE:HG12	2.07	0.55
1:U:560:GLU:O	1:U:563:ILE:HG12	2.07	0.55
1:V:427:MET:SD	1:V:464:PHE:HD1	2.30	0.55
1:X:427:MET:SD	1:X:464:PHE:HD1	2.30	0.55
1:Y:427:MET:SD	1:Y:464:PHE:HD1	2.30	0.55
1:Y:478:LYS:O	1:Y:505:THR:HG21	2.06	0.55
1:f:478:LYS:O	1:f:505:THR:HG21	2.06	0.55
1:g:525:ALA:O	1:g:559:SER:OG	2.18	0.55
1:k:560:GLU:O	1:k:563:ILE:HG12	2.07	0.55
1:m:344:VAL:H	1:m:643:GLN:HE22	1.53	0.55
1:s:560:GLU:O	1:s:563:ILE:HG12	2.07	0.55
1:v:478:LYS:O	1:v:505:THR:HG21	2.06	0.55
1:v:560:GLU:O	1:v:563:ILE:HG12	2.07	0.55
1:w:254:LEU:N	1:w:265:GLY:O	2.35	0.55
1:y:344:VAL:H	1:y:643:GLN:HE22	1.54	0.55
1:3:558:THR:HG23	1:3:610:TYR:OH	2.06	0.55
1:5:558:THR:HG23	1:5:610:TYR:OH	2.06	0.55
1:6:427:MET:SD	1:6:464:PHE:HD1	2.30	0.55
1:7:478:LYS:O	1:7:505:THR:HG21	2.06	0.55
1:A:560:GLU:O	1:A:563:ILE:HG12	2.07	0.55
1:H:254:LEU:N	1:H:265:GLY:O	2.35	0.55
1:H:558:THR:HG23	1:H:610:TYR:OH	2.06	0.55
1:I:344:VAL:H	1:I:643:GLN:HE22	1.53	0.55
1:I:560:GLU:O	1:I:563:ILE:HG12	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:MET:SD	1:J:464:PHE:HD1	2.30	0.55
1:N:420:SER:N	1:N:731:ASN:O	2.32	0.55
1:T:344:VAL:H	1:T:643:GLN:HE22	1.53	0.55
1:U:558:THR:HG23	1:U:610:TYR:OH	2.06	0.55
1:a:558:THR:HG23	1:a:610:TYR:OH	2.06	0.55
1:o:478:LYS:O	1:o:505:THR:HG21	2.06	0.55
1:r:560:GLU:O	1:r:563:ILE:HG12	2.07	0.55
1:s:558:THR:HG23	1:s:610:TYR:OH	2.06	0.55
1:u:560:GLU:O	1:u:563:ILE:HG12	2.07	0.55
1:x:558:THR:HG23	1:x:610:TYR:OH	2.06	0.55
1:2:427:MET:SD	1:2:464:PHE:HD1	2.30	0.55
1:4:560:GLU:O	1:4:563:ILE:HG12	2.07	0.55
1:7:558:THR:HG23	1:7:610:TYR:OH	2.06	0.55
1:8:344:VAL:H	1:8:643:GLN:HE22	1.54	0.55
1:E:254:LEU:N	1:E:265:GLY:O	2.35	0.55
1:F:344:VAL:H	1:F:643:GLN:HE22	1.54	0.55
1:F:427:MET:SD	1:F:464:PHE:HD1	2.30	0.55
1:I:558:THR:HG23	1:I:610:TYR:OH	2.06	0.55
1:K:560:GLU:O	1:K:563:ILE:HG12	2.07	0.55
1:N:427:MET:SD	1:N:464:PHE:HD1	2.30	0.55
1:R:427:MET:SD	1:R:464:PHE:HD1	2.30	0.55
1:Z:344:VAL:H	1:Z:643:GLN:HE22	1.54	0.55
1:c:253:ARG:HH21	1:c:379:GLN:NE2	1.99	0.55
1:c:427:MET:SD	1:c:464:PHE:HD1	2.30	0.55
1:e:427:MET:SD	1:e:464:PHE:HD1	2.30	0.55
1:g:334:PHE:CZ	1:g:388:LEU:HD22	2.39	0.55
1:i:420:SER:N	1:i:731:ASN:O	2.32	0.55
1:i:427:MET:SD	1:i:464:PHE:HD1	2.30	0.55
1:o:253:ARG:HH21	1:o:379:GLN:NE2	1.99	0.55
1:p:478:LYS:O	1:p:505:THR:HG21	2.06	0.55
1:q:427:MET:SD	1:q:464:PHE:HD1	2.30	0.55
1:r:246:TYR:OH	1:r:363:VAL:O	2.21	0.55
1:r:558:THR:HG23	1:r:610:TYR:OH	2.06	0.55
1:u:344:VAL:H	1:u:643:GLN:HE22	1.53	0.55
1:u:558:THR:HG23	1:u:610:TYR:OH	2.06	0.55
1:6:558:THR:HG23	1:6:610:TYR:OH	2.06	0.55
1:A:427:MET:SD	1:A:464:PHE:HD1	2.30	0.54
1:H:427:MET:SD	1:H:464:PHE:HD1	2.30	0.54
1:J:560:GLU:O	1:J:563:ILE:HG12	2.07	0.54
1:O:525:ALA:O	1:O:559:SER:OG	2.18	0.54
1:Q:558:THR:HG23	1:Q:610:TYR:OH	2.06	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:246:TYR:OH	1:S:363:VAL:O	2.21	0.54
1:U:344:VAL:H	1:U:643:GLN:HE22	1.54	0.54
1:U:427:MET:SD	1:U:464:PHE:HD1	2.30	0.54
1:X:420:SER:N	1:X:731:ASN:O	2.32	0.54
1:X:560:GLU:O	1:X:563:ILE:HG12	2.07	0.54
1:Y:558:THR:HG23	1:Y:610:TYR:OH	2.06	0.54
1:a:427:MET:SD	1:a:464:PHE:HD1	2.30	0.54
1:a:498:ASN:OD1	1:a:502:LYS:NZ	2.40	0.54
1:o:560:GLU:O	1:o:563:ILE:HG12	2.07	0.54
1:s:344:VAL:H	1:s:643:GLN:HE22	1.54	0.54
1:v:427:MET:SD	1:v:464:PHE:HD1	2.30	0.54
1:y:427:MET:SD	1:y:464:PHE:HD1	2.30	0.54
1:2:560:GLU:O	1:2:563:ILE:HG12	2.07	0.54
1:3:427:MET:SD	1:3:464:PHE:HD1	2.30	0.54
1:5:427:MET:SD	1:5:464:PHE:HD1	2.30	0.54
1:C:525:ALA:O	1:C:559:SER:OG	2.18	0.54
1:E:427:MET:SD	1:E:464:PHE:HD1	2.30	0.54
1:E:498:ASN:OD1	1:E:502:LYS:NZ	2.40	0.54
1:M:560:GLU:O	1:M:563:ILE:HG12	2.07	0.54
1:S:558:THR:HG23	1:S:610:TYR:OH	2.06	0.54
1:V:478:LYS:O	1:V:505:THR:HG21	2.06	0.54
1:W:558:THR:HG23	1:W:610:TYR:OH	2.06	0.54
1:X:253:ARG:HH21	1:X:379:GLN:NE2	1.99	0.54
1:Z:560:GLU:O	1:Z:563:ILE:HG12	2.07	0.54
1:h:254:LEU:N	1:h:265:GLY:O	2.35	0.54
1:h:560:GLU:O	1:h:563:ILE:HG12	2.07	0.54
1:k:558:THR:HG23	1:k:610:TYR:OH	2.06	0.54
1:x:344:VAL:H	1:x:643:GLN:HE22	1.54	0.54
1:3:498:ASN:OD1	1:3:502:LYS:NZ	2.40	0.54
1:8:560:GLU:O	1:8:563:ILE:HG12	2.07	0.54
1:C:246:TYR:OH	1:C:363:VAL:O	2.21	0.54
1:F:560:GLU:O	1:F:563:ILE:HG12	2.07	0.54
1:J:498:ASN:OD1	1:J:502:LYS:NZ	2.40	0.54
1:K:344:VAL:H	1:K:643:GLN:HE22	1.53	0.54
1:N:558:THR:HG23	1:N:610:TYR:OH	2.06	0.54
1:T:427:MET:SD	1:T:464:PHE:HD1	2.30	0.54
1:T:560:GLU:O	1:T:563:ILE:HG12	2.07	0.54
1:i:558:THR:HG23	1:i:610:TYR:OH	2.06	0.54
1:m:427:MET:SD	1:m:464:PHE:HD1	2.30	0.54
1:w:427:MET:SD	1:w:464:PHE:HD1	2.30	0.54
1:w:498:ASN:OD1	1:w:502:LYS:NZ	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:253:ARG:HH21	1:x:379:GLN:NE2	1.99	0.54
1:y:560:GLU:O	1:y:563:ILE:HG12	2.07	0.54
1:2:498:ASN:OD1	1:2:502:LYS:NZ	2.40	0.54
1:D:558:THR:HG23	1:D:610:TYR:OH	2.06	0.54
1:E:560:GLU:O	1:E:563:ILE:HG12	2.07	0.54
1:P:560:GLU:O	1:P:563:ILE:HG12	2.07	0.54
1:Q:253:ARG:HH21	1:Q:379:GLN:NE2	1.99	0.54
1:U:420:SER:N	1:U:731:ASN:O	2.32	0.54
1:W:421:GLN:HE22	1:Y:342:PRO:HB3	1.73	0.54
1:c:498:ASN:OD1	1:c:502:LYS:NZ	2.40	0.54
1:e:498:ASN:OD1	1:e:502:LYS:NZ	2.40	0.54
1:j:560:GLU:O	1:j:563:ILE:HG12	2.07	0.54
1:m:560:GLU:O	1:m:563:ILE:HG12	2.07	0.54
1:q:254:LEU:N	1:q:265:GLY:O	2.35	0.54
1:s:498:ASN:OD1	1:s:502:LYS:NZ	2.40	0.54
1:w:560:GLU:O	1:w:563:ILE:HG12	2.07	0.54
1:y:526:GLY:N	1:y:529:ASP:OD2	2.35	0.54
1:z:525:ALA:O	1:z:559:SER:OG	2.18	0.54
1:3:344:VAL:H	1:3:643:GLN:HE22	1.54	0.54
1:4:344:VAL:H	1:4:643:GLN:HE22	1.53	0.54
1:6:421:GLN:HE22	1:7:342:PRO:HB3	1.72	0.54
1:B:560:GLU:O	1:B:563:ILE:HG12	2.07	0.54
1:F:526:GLY:N	1:F:529:ASP:OD2	2.35	0.54
1:M:254:LEU:N	1:M:265:GLY:O	2.35	0.54
1:R:558:THR:HG23	1:R:610:TYR:OH	2.06	0.54
1:U:498:ASN:OD1	1:U:502:LYS:NZ	2.40	0.54
1:c:560:GLU:O	1:c:563:ILE:HG12	2.07	0.54
1:d:560:GLU:O	1:d:563:ILE:HG12	2.07	0.54
1:e:560:GLU:O	1:e:563:ILE:HG12	2.07	0.54
1:n:560:GLU:O	1:n:563:ILE:HG12	2.07	0.54
1:s:420:SER:N	1:s:731:ASN:O	2.32	0.54
1:x:254:LEU:N	1:x:265:GLY:O	2.35	0.54
1:x:560:GLU:O	1:x:563:ILE:HG12	2.07	0.54
1:5:560:GLU:O	1:5:563:ILE:HG12	2.07	0.54
1:C:560:GLU:O	1:C:563:ILE:HG12	2.07	0.54
1:D:421:GLN:HE22	1:N:342:PRO:HB3	1.72	0.54
1:I:253:ARG:HH21	1:I:379:GLN:NE2	1.99	0.54
1:O:558:THR:HG23	1:O:610:TYR:OH	2.06	0.54
1:V:560:GLU:O	1:V:563:ILE:HG12	2.07	0.54
1:a:344:VAL:H	1:a:643:GLN:HE22	1.54	0.54
1:a:560:GLU:O	1:a:563:ILE:HG12	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:560:GLU:O	1:g:563:ILE:HG12	2.07	0.54
1:i:342:PRO:HB3	1:k:421:GLN:HE22	1.72	0.54
1:j:427:MET:SD	1:j:464:PHE:HD1	2.30	0.54
1:l:344:VAL:H	1:l:643:GLN:HE22	1.54	0.54
1:1:560:GLU:O	1:1:563:ILE:HG12	2.07	0.54
1:3:560:GLU:O	1:3:563:ILE:HG12	2.07	0.54
1:7:560:GLU:O	1:7:563:ILE:HG12	2.07	0.54
1:H:560:GLU:O	1:H:563:ILE:HG12	2.07	0.54
1:O:344:VAL:H	1:O:643:GLN:HE22	1.54	0.54
1:Q:560:GLU:O	1:Q:563:ILE:HG12	2.07	0.54
1:S:498:ASN:OD1	1:S:502:LYS:NZ	2.40	0.54
1:g:246:TYR:OH	1:g:363:VAL:O	2.21	0.54
1:l:558:THR:HG23	1:l:610:TYR:OH	2.06	0.54
1:p:560:GLU:O	1:p:563:ILE:HG12	2.07	0.54
1:q:558:THR:HG23	1:q:610:TYR:OH	2.06	0.54
1:t:254:LEU:N	1:t:265:GLY:O	2.35	0.54
1:z:344:VAL:H	1:z:643:GLN:HE22	1.54	0.54
1:B:427:MET:SD	1:B:464:PHE:HD1	2.30	0.54
1:B:475:PRO:HG3	1:B:598:VAL:HG12	1.90	0.54
1:D:475:PRO:HG3	1:D:598:VAL:HG12	1.90	0.54
1:L:344:VAL:H	1:L:643:GLN:HE22	1.54	0.54
1:N:560:GLU:O	1:N:563:ILE:HG12	2.07	0.54
1:R:254:LEU:N	1:R:265:GLY:O	2.35	0.54
1:Y:560:GLU:O	1:Y:563:ILE:HG12	2.07	0.54
1:i:560:GLU:O	1:i:563:ILE:HG12	2.07	0.54
1:k:475:PRO:HG3	1:k:598:VAL:HG12	1.90	0.54
1:r:498:ASN:OD1	1:r:502:LYS:NZ	2.40	0.54
1:u:253:ARG:HH21	1:u:379:GLN:NE2	1.99	0.54
1:z:475:PRO:HG3	1:z:598:VAL:HG12	1.90	0.54
1:1:475:PRO:HG3	1:1:598:VAL:HG12	1.90	0.54
1:E:253:ARG:HH21	1:E:379:GLN:NE2	1.99	0.54
1:H:342:PRO:HB3	1:Y:421:GLN:HE22	1.73	0.54
1:P:427:MET:SD	1:P:464:PHE:HD1	2.30	0.54
1:Q:254:LEU:N	1:Q:265:GLY:O	2.35	0.54
1:b:560:GLU:O	1:b:563:ILE:HG12	2.07	0.54
1:c:475:PRO:HG3	1:c:598:VAL:HG12	1.90	0.54
1:e:475:PRO:HG3	1:e:598:VAL:HG12	1.90	0.54
1:r:427:MET:SD	1:r:464:PHE:HD1	2.30	0.54
1:v:498:ASN:OD1	1:v:502:LYS:NZ	2.40	0.54
1:1:427:MET:SD	1:1:464:PHE:HD1	2.30	0.54
1:A:498:ASN:OD1	1:A:502:LYS:NZ	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:LEU:N	1:G:265:GLY:O	2.35	0.54
1:L:475:PRO:HG3	1:L:598:VAL:HG12	1.90	0.54
1:O:475:PRO:HG3	1:O:598:VAL:HG12	1.90	0.54
1:R:560:GLU:O	1:R:563:ILE:HG12	2.07	0.54
1:V:420:SER:N	1:V:731:ASN:O	2.32	0.54
1:f:560:GLU:O	1:f:563:ILE:HG12	2.07	0.54
1:q:475:PRO:HG3	1:q:598:VAL:HG12	1.90	0.54
1:6:560:GLU:O	1:6:563:ILE:HG12	2.07	0.54
1:A:421:GLN:HE22	1:G:342:PRO:HB3	1.74	0.53
1:C:475:PRO:HG3	1:C:598:VAL:HG12	1.90	0.53
1:E:475:PRO:HG3	1:E:598:VAL:HG12	1.90	0.53
1:N:421:GLN:HE22	1:P:342:PRO:HB3	1.73	0.53
1:O:246:TYR:OH	1:O:363:VAL:O	2.21	0.53
1:S:427:MET:SD	1:S:464:PHE:HD1	2.30	0.53
1:W:560:GLU:O	1:W:563:ILE:HG12	2.07	0.53
1:d:498:ASN:OD1	1:d:502:LYS:NZ	2.40	0.53
1:j:253:ARG:HH21	1:j:379:GLN:NE2	1.99	0.53
1:l:475:PRO:HG3	1:l:598:VAL:HG12	1.90	0.53
1:t:342:PRO:HB3	1:v:421:GLN:HE22	1.74	0.53
1:w:475:PRO:HG3	1:w:598:VAL:HG12	1.90	0.53
1:L:560:GLU:O	1:L:563:ILE:HG12	2.07	0.53
1:R:475:PRO:HG3	1:R:598:VAL:HG12	1.90	0.53
1:c:223:HIS:O	1:c:238:THR:OG1	2.12	0.53
1:g:475:PRO:HG3	1:g:598:VAL:HG12	1.90	0.53
1:n:475:PRO:HG3	1:n:598:VAL:HG12	1.90	0.53
1:n:498:ASN:OD1	1:n:502:LYS:NZ	2.40	0.53
1:q:560:GLU:O	1:q:563:ILE:HG12	2.07	0.53
1:z:246:TYR:OH	1:z:363:VAL:O	2.21	0.53
1:5:342:PRO:HB3	1:7:421:GLN:HE22	1.73	0.53
1:A:475:PRO:HG3	1:A:598:VAL:HG12	1.90	0.53
1:Y:475:PRO:HG3	1:Y:598:VAL:HG12	1.90	0.53
1:d:475:PRO:HG3	1:d:598:VAL:HG12	1.90	0.53
1:i:421:GLN:NE2	1:j:342:PRO:HB3	2.23	0.53
1:v:475:PRO:HG3	1:v:598:VAL:HG12	1.90	0.53
1:w:253:ARG:HH21	1:w:379:GLN:NE2	1.99	0.53
1:7:424:ASP:N	1:7:424:ASP:OD1	2.42	0.53
1:D:424:ASP:N	1:D:424:ASP:OD1	2.42	0.53
1:G:560:GLU:O	1:G:563:ILE:HG12	2.07	0.53
1:H:424:ASP:N	1:H:424:ASP:OD1	2.42	0.53
1:V:254:LEU:N	1:V:265:GLY:O	2.35	0.53
1:W:475:PRO:HG3	1:W:598:VAL:HG12	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:424:ASP:OD1	1:Y:424:ASP:N	2.42	0.53
1:f:446:THR:HG23	1:f:449:GLN:HB2	1.91	0.53
1:k:424:ASP:N	1:k:424:ASP:OD1	2.41	0.53
1:k:446:THR:HG23	1:k:449:GLN:HB2	1.91	0.53
1:z:421:GLN:HE22	1:1:342:PRO:HB3	1.74	0.53
1:z:560:GLU:O	1:z:563:ILE:HG12	2.07	0.53
1:4:254:LEU:N	1:4:265:GLY:O	2.35	0.53
1:5:424:ASP:N	1:5:424:ASP:OD1	2.42	0.53
1:7:475:PRO:HG3	1:7:598:VAL:HG12	1.90	0.53
1:B:342:PRO:HB3	1:L:421:GLN:HE22	1.74	0.53
1:K:446:THR:HG23	1:K:449:GLN:HB2	1.91	0.53
1:L:446:THR:HG23	1:L:449:GLN:HB2	1.91	0.53
1:Q:446:THR:HG23	1:Q:449:GLN:HB2	1.91	0.53
1:T:618:LYS:HB2	1:T:640:PRO:HG3	1.91	0.53
1:W:446:THR:HG23	1:W:449:GLN:HB2	1.91	0.53
1:X:446:THR:HG23	1:X:449:GLN:HB2	1.91	0.53
1:X:475:PRO:HG3	1:X:598:VAL:HG12	1.90	0.53
1:b:446:THR:HG23	1:b:449:GLN:HB2	1.91	0.53
1:c:421:GLN:HE22	1:o:342:PRO:HB3	1.74	0.53
1:g:446:THR:HG23	1:g:449:GLN:HB2	1.91	0.53
1:o:446:THR:HG23	1:o:449:GLN:HB2	1.91	0.53
1:p:420:SER:N	1:p:731:ASN:O	2.32	0.53
1:q:342:PRO:HB3	1:s:421:GLN:HE22	1.74	0.53
1:x:446:THR:HG23	1:x:449:GLN:HB2	1.91	0.53
1:x:475:PRO:HG3	1:x:598:VAL:HG12	1.90	0.53
1:z:446:THR:HG23	1:z:449:GLN:HB2	1.91	0.53
1:6:475:PRO:HG3	1:6:598:VAL:HG12	1.90	0.53
1:C:421:GLN:HE22	1:b:342:PRO:HB3	1.74	0.53
1:C:446:THR:HG23	1:C:449:GLN:HB2	1.91	0.53
1:D:446:THR:HG23	1:D:449:GLN:HB2	1.91	0.53
1:G:446:THR:HG23	1:G:449:GLN:HB2	1.91	0.53
1:L:246:TYR:OH	1:L:363:VAL:O	2.21	0.53
1:P:253:ARG:HH21	1:P:379:GLN:NE2	1.99	0.53
1:Q:475:PRO:HG3	1:Q:598:VAL:HG12	1.90	0.53
1:R:342:PRO:HB3	1:U:421:GLN:HE22	1.74	0.53
1:U:618:LYS:HB2	1:U:640:PRO:HG3	1.91	0.53
1:X:342:PRO:HB3	1:e:421:GLN:HE22	1.74	0.53
1:f:342:PRO:HB3	1:g:421:GLN:HE22	1.74	0.53
1:h:618:LYS:HB2	1:h:640:PRO:HG3	1.91	0.53
1:o:475:PRO:HG3	1:o:598:VAL:HG12	1.90	0.53
1:s:618:LYS:HB2	1:s:640:PRO:HG3	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:446:THR:HG23	1:t:449:GLN:HB2	1.91	0.53
1:t:560:GLU:O	1:t:563:ILE:HG12	2.07	0.53
1:3:618:LYS:HB2	1:3:640:PRO:HG3	1.91	0.53
1:4:446:THR:HG23	1:4:449:GLN:HB2	1.91	0.53
1:6:446:THR:HG23	1:6:449:GLN:HB2	1.91	0.53
1:A:542:PRO:HG3	1:A:721:PRO:HA	1.91	0.53
1:D:254:LEU:N	1:D:265:GLY:O	2.35	0.53
1:D:618:LYS:HB2	1:D:640:PRO:HG3	1.91	0.53
1:G:618:LYS:HB2	1:G:640:PRO:HG3	1.91	0.53
1:H:475:PRO:HG3	1:H:598:VAL:HG12	1.90	0.53
1:K:254:LEU:N	1:K:265:GLY:O	2.35	0.53
1:K:475:PRO:HG3	1:K:598:VAL:HG12	1.90	0.53
1:K:618:LYS:HB2	1:K:640:PRO:HG3	1.91	0.53
1:M:618:LYS:HB2	1:M:640:PRO:HG3	1.91	0.53
1:T:542:PRO:HG3	1:T:721:PRO:HA	1.91	0.53
1:Z:342:PRO:HB3	1:3:421:GLN:HE22	1.74	0.53
1:a:421:GLN:HE22	1:8:342:PRO:HB3	1.74	0.53
1:a:618:LYS:HB2	1:a:640:PRO:HG3	1.91	0.53
1:d:446:THR:HG23	1:d:449:GLN:HB2	1.91	0.53
1:i:618:LYS:HB2	1:i:640:PRO:HG3	1.91	0.53
1:m:542:PRO:HG3	1:m:721:PRO:HA	1.91	0.53
1:m:618:LYS:HB2	1:m:640:PRO:HG3	1.91	0.53
1:n:446:THR:HG23	1:n:449:GLN:HB2	1.91	0.53
1:t:618:LYS:HB2	1:t:640:PRO:HG3	1.91	0.53
1:v:542:PRO:HG3	1:v:721:PRO:HA	1.91	0.53
1:3:475:PRO:HG3	1:3:598:VAL:HG12	1.90	0.53
1:4:475:PRO:HG3	1:4:598:VAL:HG12	1.90	0.53
1:4:618:LYS:HB2	1:4:640:PRO:HG3	1.91	0.53
1:5:475:PRO:HG3	1:5:598:VAL:HG12	1.90	0.53
1:J:475:PRO:HG3	1:J:598:VAL:HG12	1.90	0.53
1:L:618:LYS:HB2	1:L:640:PRO:HG3	1.91	0.53
1:M:342:PRO:HB3	1:b:421:GLN:HE22	1.74	0.53
1:M:542:PRO:HG3	1:M:721:PRO:HA	1.91	0.53
1:N:618:LYS:HB2	1:N:640:PRO:HG3	1.91	0.53
1:R:542:PRO:HG3	1:R:721:PRO:HA	1.91	0.53
1:R:658:THR:HG22	1:R:659:PHE:H	1.74	0.53
1:V:475:PRO:HG3	1:V:598:VAL:HG12	1.90	0.53
1:a:475:PRO:HG3	1:a:598:VAL:HG12	1.90	0.53
1:c:342:PRO:HB3	1:p:421:GLN:HE22	1.74	0.53
1:f:421:GLN:HE22	1:h:342:PRO:HB3	1.74	0.53
1:h:542:PRO:HG3	1:h:721:PRO:HA	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:498:ASN:OD1	1:j:502:LYS:NZ	2.40	0.53
1:k:618:LYS:HB2	1:k:640:PRO:HG3	1.91	0.53
1:n:618:LYS:HB2	1:n:640:PRO:HG3	1.91	0.53
1:p:254:LEU:N	1:p:265:GLY:O	2.35	0.53
1:p:475:PRO:HG3	1:p:598:VAL:HG12	1.90	0.53
1:q:542:PRO:HG3	1:q:721:PRO:HA	1.91	0.53
1:q:658:THR:HG22	1:q:659:PHE:H	1.74	0.53
1:w:421:GLN:HE22	1:x:342:PRO:HB3	1.74	0.53
1:w:446:THR:HG23	1:w:449:GLN:HB2	1.91	0.53
1:w:618:LYS:HB2	1:w:640:PRO:HG3	1.91	0.53
1:2:475:PRO:HG3	1:2:598:VAL:HG12	1.90	0.53
1:3:342:PRO:HB3	1:4:421:GLN:HE22	1.74	0.53
1:B:421:GLN:HE22	1:J:342:PRO:HB3	1.74	0.53
1:E:446:THR:HG23	1:E:449:GLN:HB2	1.91	0.53
1:E:618:LYS:HB2	1:E:640:PRO:HG3	1.91	0.53
1:F:446:THR:HG23	1:F:449:GLN:HB2	1.91	0.53
1:I:658:THR:HG22	1:I:659:PHE:H	1.74	0.53
1:K:421:GLN:HE22	1:a:342:PRO:HB3	1.74	0.53
1:N:424:ASP:OD1	1:N:424:ASP:N	2.42	0.53
1:O:421:GLN:HE22	1:m:342:PRO:HB3	1.74	0.53
1:T:342:PRO:HB3	1:l:421:GLN:HE22	1.74	0.53
1:T:421:GLN:HE22	1:d:342:PRO:HB3	1.74	0.53
1:V:421:GLN:HE22	1:e:342:PRO:HB3	1.74	0.53
1:b:618:LYS:HB2	1:b:640:PRO:HG3	1.91	0.53
1:d:542:PRO:HG3	1:d:721:PRO:HA	1.91	0.53
1:f:525:ALA:O	1:f:559:SER:OG	2.18	0.53
1:f:618:LYS:HB2	1:f:640:PRO:HG3	1.91	0.53
1:l:253:ARG:HH21	1:l:379:GLN:NE2	1.99	0.53
1:m:421:GLN:HE22	1:n:342:PRO:HB3	1.74	0.53
1:r:658:THR:HG22	1:r:659:PHE:H	1.74	0.53
1:s:475:PRO:HG3	1:s:598:VAL:HG12	1.90	0.53
1:u:475:PRO:HG3	1:u:598:VAL:HG12	1.90	0.53
1:u:658:THR:HG22	1:u:659:PHE:H	1.74	0.53
1:w:342:PRO:HB3	1:y:421:GLN:HE22	1.74	0.53
1:w:542:PRO:HG3	1:w:721:PRO:HA	1.91	0.53
1:B:446:THR:HG23	1:B:449:GLN:HB2	1.91	0.53
1:E:342:PRO:HB3	1:F:421:GLN:HE22	1.74	0.53
1:E:421:GLN:HE22	1:Q:342:PRO:HB3	1.74	0.53
1:H:421:GLN:HE22	1:W:342:PRO:HB3	1.74	0.53
1:I:475:PRO:HG3	1:I:598:VAL:HG12	1.90	0.53
1:N:525:ALA:O	1:N:559:SER:OG	2.18	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:253:ARG:HH21	1:O:379:GLN:NE2	1.99	0.53
1:O:658:THR:HG22	1:O:659:PHE:H	1.74	0.53
1:P:498:ASN:OD1	1:P:502:LYS:NZ	2.40	0.53
1:S:658:THR:HG22	1:S:659:PHE:H	1.74	0.53
1:U:475:PRO:HG3	1:U:598:VAL:HG12	1.90	0.53
1:Y:446:THR:HG23	1:Y:449:GLN:HB2	1.91	0.53
1:d:618:LYS:HB2	1:d:640:PRO:HG3	1.91	0.53
1:i:424:ASP:OD1	1:i:424:ASP:N	2.42	0.53
1:l:658:THR:HG22	1:l:659:PHE:H	1.74	0.53
1:n:542:PRO:HG3	1:n:721:PRO:HA	1.91	0.53
1:o:424:ASP:OD1	1:o:424:ASP:N	2.42	0.53
1:y:446:THR:HG23	1:y:449:GLN:HB2	1.91	0.53
1:z:618:LYS:HB2	1:z:640:PRO:HG3	1.91	0.53
1:1:446:THR:HG23	1:1:449:GLN:HB2	1.91	0.53
1:4:658:THR:HG22	1:4:659:PHE:H	1.74	0.53
1:6:618:LYS:HB2	1:6:640:PRO:HG3	1.91	0.53
1:A:342:PRO:HB3	1:I:421:GLN:HE22	1.74	0.52
1:D:421:GLN:NE2	1:N:342:PRO:HB3	2.24	0.52
1:E:542:PRO:HG3	1:E:721:PRO:HA	1.91	0.52
1:G:421:GLN:HE22	1:I:342:PRO:HB3	1.74	0.52
1:K:658:THR:HG22	1:K:659:PHE:H	1.74	0.52
1:M:446:THR:HG23	1:M:449:GLN:HB2	1.91	0.52
1:S:421:GLN:HE22	1:U:342:PRO:HB3	1.74	0.52
1:V:542:PRO:HG3	1:V:721:PRO:HA	1.91	0.52
1:W:618:LYS:HB2	1:W:640:PRO:HG3	1.91	0.52
1:W:658:THR:HG22	1:W:659:PHE:H	1.75	0.52
1:X:424:ASP:N	1:X:424:ASP:OD1	2.42	0.52
1:Y:542:PRO:HG3	1:Y:721:PRO:HA	1.91	0.52
1:a:446:THR:HG23	1:a:449:GLN:HB2	1.91	0.52
1:b:475:PRO:HG3	1:b:598:VAL:HG12	1.90	0.52
1:f:424:ASP:OD1	1:f:424:ASP:N	2.42	0.52
1:h:446:THR:HG23	1:h:449:GLN:HB2	1.91	0.52
1:i:254:LEU:N	1:i:265:GLY:O	2.35	0.52
1:i:475:PRO:HG3	1:i:598:VAL:HG12	1.90	0.52
1:k:254:LEU:N	1:k:265:GLY:O	2.35	0.52
1:p:542:PRO:HG3	1:p:721:PRO:HA	1.91	0.52
1:p:658:THR:HG22	1:p:659:PHE:H	1.74	0.52
1:t:421:GLN:HE22	1:u:342:PRO:HB3	1.74	0.52
1:1:421:GLN:HE22	1:2:342:PRO:HB3	1.74	0.52
1:3:446:THR:HG23	1:3:449:GLN:HB2	1.91	0.52
1:5:421:GLN:HE22	1:6:342:PRO:HB3	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:618:LYS:HB2	1:5:640:PRO:HG3	1.91	0.52
1:6:658:THR:HG22	1:6:659:PHE:H	1.75	0.52
1:7:446:THR:HG23	1:7:449:GLN:HB2	1.91	0.52
1:C:498:ASN:OD1	1:C:502:LYS:NZ	2.40	0.52
1:E:658:THR:HG22	1:E:659:PHE:H	1.74	0.52
1:F:475:PRO:HG3	1:F:598:VAL:HG12	1.90	0.52
1:H:618:LYS:HB2	1:H:640:PRO:HG3	1.91	0.52
1:L:542:PRO:HG3	1:L:721:PRO:HA	1.91	0.52
1:N:254:LEU:N	1:N:265:GLY:O	2.35	0.52
1:N:475:PRO:HG3	1:N:598:VAL:HG12	1.90	0.52
1:Q:542:PRO:HG3	1:Q:721:PRO:HA	1.91	0.52
1:S:542:PRO:HG3	1:S:721:PRO:HA	1.91	0.52
1:V:658:THR:HG22	1:V:659:PHE:H	1.74	0.52
1:Z:268:THR:OG1	1:Z:366:TYR:O	2.24	0.52
1:b:424:ASP:N	1:b:424:ASP:OD1	2.42	0.52
1:e:446:THR:HG23	1:e:449:GLN:HB2	1.91	0.52
1:f:475:PRO:HG3	1:f:598:VAL:HG12	1.90	0.52
1:g:498:ASN:OD1	1:g:502:LYS:NZ	2.40	0.52
1:i:342:PRO:HB3	1:k:421:GLN:NE2	2.24	0.52
1:n:658:THR:HG22	1:n:659:PHE:H	1.74	0.52
1:r:446:THR:HG23	1:r:449:GLN:HB2	1.91	0.52
1:r:542:PRO:HG3	1:r:721:PRO:HA	1.91	0.52
1:s:446:THR:HG23	1:s:449:GLN:HB2	1.91	0.52
1:z:542:PRO:HG3	1:z:721:PRO:HA	1.91	0.52
1:7:542:PRO:HG3	1:7:721:PRO:HA	1.91	0.52
1:8:475:PRO:HG3	1:8:598:VAL:HG12	1.90	0.52
1:C:618:LYS:HB2	1:C:640:PRO:HG3	1.91	0.52
1:I:618:LYS:HB2	1:I:640:PRO:HG3	1.91	0.52
1:K:342:PRO:HB3	1:8:421:GLN:HE22	1.74	0.52
1:K:498:ASN:OD1	1:K:502:LYS:NZ	2.40	0.52
1:U:446:THR:HG23	1:U:449:GLN:HB2	1.91	0.52
1:U:658:THR:HG22	1:U:659:PHE:H	1.74	0.52
1:Z:475:PRO:HG3	1:Z:598:VAL:HG12	1.90	0.52
1:Z:658:THR:HG22	1:Z:659:PHE:H	1.74	0.52
1:c:446:THR:HG23	1:c:449:GLN:HB2	1.91	0.52
1:d:658:THR:HG22	1:d:659:PHE:H	1.75	0.52
1:g:618:LYS:HB2	1:g:640:PRO:HG3	1.91	0.52
1:m:446:THR:HG23	1:m:449:GLN:HB2	1.91	0.52
1:r:421:GLN:HE22	1:s:342:PRO:HB3	1.74	0.52
1:u:618:LYS:HB2	1:u:640:PRO:HG3	1.91	0.52
1:w:658:THR:HG22	1:w:659:PHE:H	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:542:PRO:HG3	1:y:721:PRO:HA	1.91	0.52
1:7:498:ASN:OD1	1:7:502:LYS:NZ	2.40	0.52
1:A:658:THR:HG22	1:A:659:PHE:H	1.74	0.52
1:F:542:PRO:HG3	1:F:721:PRO:HA	1.91	0.52
1:J:421:GLN:HE22	1:L:342:PRO:HB3	1.74	0.52
1:L:424:ASP:OD1	1:L:424:ASP:N	2.42	0.52
1:L:658:THR:HG22	1:L:659:PHE:H	1.74	0.52
1:R:623:ASP:OD1	1:U:415:SER:OG	2.28	0.52
1:S:446:THR:HG23	1:S:449:GLN:HB2	1.91	0.52
1:T:446:THR:HG23	1:T:449:GLN:HB2	1.91	0.52
1:e:618:LYS:HB2	1:e:640:PRO:HG3	1.91	0.52
1:g:342:PRO:HB3	1:h:421:GLN:HE22	1.74	0.52
1:i:525:ALA:O	1:i:559:SER:OG	2.18	0.52
1:m:658:THR:HG22	1:m:659:PHE:H	1.74	0.52
1:r:475:PRO:HG3	1:r:598:VAL:HG12	1.90	0.52
1:s:254:LEU:N	1:s:265:GLY:O	2.35	0.52
1:x:542:PRO:HG3	1:x:721:PRO:HA	1.91	0.52
1:y:475:PRO:HG3	1:y:598:VAL:HG12	1.90	0.52
1:z:658:THR:HG22	1:z:659:PHE:H	1.74	0.52
1:3:253:ARG:HH21	1:3:379:GLN:NE2	1.98	0.52
1:4:498:ASN:OD1	1:4:502:LYS:NZ	2.40	0.52
1:6:421:GLN:NE2	1:7:342:PRO:HB3	2.24	0.52
1:8:658:THR:HG22	1:8:659:PHE:H	1.74	0.52
1:C:342:PRO:HB3	1:M:421:GLN:HE22	1.74	0.52
1:E:522:MET:HE2	1:E:570:ASP:HA	1.92	0.52
1:L:522:MET:HE2	1:L:570:ASP:HA	1.92	0.52
1:O:542:PRO:HG3	1:O:721:PRO:HA	1.91	0.52
1:P:475:PRO:HG3	1:P:598:VAL:HG12	1.90	0.52
1:R:618:LYS:HB2	1:R:640:PRO:HG3	1.91	0.52
1:T:658:THR:HG22	1:T:659:PHE:H	1.74	0.52
1:W:253:ARG:HH21	1:W:379:GLN:NE2	1.99	0.52
1:W:421:GLN:NE2	1:Y:342:PRO:HB3	2.24	0.52
1:Y:498:ASN:OD1	1:Y:502:LYS:NZ	2.40	0.52
1:Z:421:GLN:HE22	1:4:342:PRO:HB3	1.74	0.52
1:c:618:LYS:HB2	1:c:640:PRO:HG3	1.91	0.52
1:j:475:PRO:HG3	1:j:598:VAL:HG12	1.90	0.52
1:k:658:THR:HG22	1:k:659:PHE:H	1.75	0.52
1:q:618:LYS:HB2	1:q:640:PRO:HG3	1.91	0.52
1:s:658:THR:HG22	1:s:659:PHE:H	1.74	0.52
1:u:421:GLN:HE22	1:v:342:PRO:HB3	1.74	0.52
1:v:658:THR:HG22	1:v:659:PHE:H	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:424:ASP:N	1:x:424:ASP:OD1	2.42	0.52
1:y:618:LYS:HB2	1:y:640:PRO:HG3	1.91	0.52
1:z:342:PRO:HB3	1:2:421:GLN:HE22	1.74	0.52
1:z:424:ASP:N	1:z:424:ASP:OD1	2.42	0.52
1:2:658:THR:HG22	1:2:659:PHE:H	1.74	0.52
1:D:658:THR:HG22	1:D:659:PHE:H	1.75	0.52
1:F:618:LYS:HB2	1:F:640:PRO:HG3	1.91	0.52
1:I:446:THR:HG23	1:I:449:GLN:HB2	1.91	0.52
1:M:475:PRO:HG3	1:M:598:VAL:HG12	1.90	0.52
1:N:658:THR:HG22	1:N:659:PHE:H	1.74	0.52
1:Q:424:ASP:OD1	1:Q:424:ASP:N	2.42	0.52
1:S:475:PRO:HG3	1:S:598:VAL:HG12	1.90	0.52
1:V:342:PRO:HB3	1:X:421:GLN:HE22	1.74	0.52
1:X:618:LYS:HB2	1:X:640:PRO:HG3	1.91	0.52
1:Z:446:THR:HG23	1:Z:449:GLN:HB2	1.91	0.52
1:c:658:THR:HG22	1:c:659:PHE:H	1.75	0.52
1:e:658:THR:HG22	1:e:659:PHE:H	1.75	0.52
1:f:542:PRO:HG3	1:f:721:PRO:HA	1.91	0.52
1:g:658:THR:HG22	1:g:659:PHE:H	1.74	0.52
1:h:253:ARG:HH21	1:h:379:GLN:NE2	1.99	0.52
1:l:542:PRO:HG3	1:l:721:PRO:HA	1.91	0.52
1:o:421:GLN:HE22	1:p:342:PRO:HB3	1.74	0.52
1:o:618:LYS:HB2	1:o:640:PRO:HG3	1.91	0.52
1:u:446:THR:HG23	1:u:449:GLN:HB2	1.91	0.52
1:v:446:THR:HG23	1:v:449:GLN:HB2	1.91	0.52
1:w:522:MET:HE2	1:w:570:ASP:HA	1.92	0.52
1:z:522:MET:HE2	1:z:570:ASP:HA	1.92	0.52
1:4:542:PRO:HG3	1:4:721:PRO:HA	1.91	0.52
1:8:446:THR:HG23	1:8:449:GLN:HB2	1.91	0.52
1:A:446:THR:HG23	1:A:449:GLN:HB2	1.91	0.52
1:C:658:THR:HG22	1:C:659:PHE:H	1.74	0.52
1:F:342:PRO:HB3	1:Q:421:GLN:HE22	1.74	0.52
1:G:542:PRO:HG3	1:G:721:PRO:HA	1.91	0.52
1:J:658:THR:HG22	1:J:659:PHE:H	1.74	0.52
1:K:542:PRO:HG3	1:K:721:PRO:HA	1.91	0.52
1:T:415:SER:OG	1:d:623:ASP:OD1	2.28	0.52
1:X:542:PRO:HG3	1:X:721:PRO:HA	1.91	0.52
1:a:253:ARG:HH21	1:a:379:GLN:NE2	1.99	0.52
1:b:542:PRO:HG3	1:b:721:PRO:HA	1.91	0.52
1:h:475:PRO:HG3	1:h:598:VAL:HG12	1.90	0.52
1:h:522:MET:HE2	1:h:570:ASP:HA	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:658:THR:HG22	1:i:659:PHE:H	1.74	0.52
1:j:618:LYS:HB2	1:j:640:PRO:HG3	1.91	0.52
1:m:424:ASP:N	1:m:424:ASP:OD1	2.42	0.52
1:o:542:PRO:HG3	1:o:721:PRO:HA	1.91	0.52
1:p:446:THR:HG23	1:p:449:GLN:HB2	1.91	0.52
1:u:254:LEU:N	1:u:265:GLY:O	2.35	0.52
1:5:446:THR:HG23	1:5:449:GLN:HB2	1.91	0.52
1:8:618:LYS:HB2	1:8:640:PRO:HG3	1.91	0.52
1:H:446:THR:HG23	1:H:449:GLN:HB2	1.91	0.52
1:I:254:LEU:N	1:I:265:GLY:O	2.35	0.52
1:I:522:MET:HE2	1:I:570:ASP:HA	1.92	0.52
1:L:524:THR:HG1	1:L:560:GLU:H	1.54	0.52
1:M:522:MET:HE2	1:M:570:ASP:HA	1.92	0.52
1:P:618:LYS:HB2	1:P:640:PRO:HG3	1.91	0.52
1:U:254:LEU:N	1:U:265:GLY:O	2.35	0.52
1:Y:658:THR:HG22	1:Y:659:PHE:H	1.74	0.52
1:Z:618:LYS:HB2	1:Z:640:PRO:HG3	1.91	0.52
1:Z:623:ASP:OD1	1:3:415:SER:OG	2.28	0.52
1:t:542:PRO:HG3	1:t:721:PRO:HA	1.91	0.52
1:u:522:MET:HE2	1:u:570:ASP:HA	1.92	0.52
1:1:658:THR:HG22	1:1:659:PHE:H	1.74	0.52
1:B:658:THR:HG22	1:B:659:PHE:H	1.74	0.52
1:G:475:PRO:HG3	1:G:598:VAL:HG12	1.90	0.52
1:N:522:MET:HE2	1:N:570:ASP:HA	1.92	0.52
1:N:542:PRO:HG3	1:N:721:PRO:HA	1.91	0.52
1:T:424:ASP:OD1	1:T:424:ASP:N	2.42	0.52
1:V:446:THR:HG23	1:V:449:GLN:HB2	1.91	0.52
1:j:415:SER:OG	1:k:623:ASP:OD1	2.27	0.52
1:j:421:GLN:NE2	1:k:342:PRO:HB3	2.25	0.52
1:k:542:PRO:HG3	1:k:721:PRO:HA	1.91	0.52
1:y:658:THR:HG22	1:y:659:PHE:H	1.74	0.52
1:1:542:PRO:HG3	1:1:721:PRO:HA	1.91	0.52
1:7:658:THR:HG22	1:7:659:PHE:H	1.74	0.52
1:8:522:MET:HE2	1:8:570:ASP:HA	1.92	0.52
1:B:542:PRO:HG3	1:B:721:PRO:HA	1.91	0.52
1:D:542:PRO:HG3	1:D:721:PRO:HA	1.91	0.52
1:F:658:THR:HG22	1:F:659:PHE:H	1.74	0.52
1:M:253:ARG:HH21	1:M:379:GLN:NE2	1.99	0.52
1:M:658:THR:HG22	1:M:659:PHE:H	1.74	0.52
1:N:421:GLN:NE2	1:P:342:PRO:HB3	2.25	0.52
1:O:522:MET:HE2	1:O:570:ASP:HA	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:424:ASP:N	1:P:424:ASP:OD1	2.42	0.52
1:Q:658:THR:HG22	1:Q:659:PHE:H	1.74	0.52
1:T:525:ALA:O	1:T:559:SER:OG	2.18	0.52
1:U:522:MET:HE2	1:U:570:ASP:HA	1.92	0.52
1:Z:522:MET:HE2	1:Z:570:ASP:HA	1.92	0.52
1:a:522:MET:HE2	1:a:570:ASP:HA	1.92	0.52
1:d:421:GLN:HE22	1:l:342:PRO:HB3	1.74	0.52
1:i:522:MET:HE2	1:i:570:ASP:HA	1.92	0.52
1:i:542:PRO:HG3	1:i:721:PRO:HA	1.91	0.52
1:l:446:THR:HG23	1:l:449:GLN:HB2	1.91	0.52
1:s:253:ARG:HH21	1:s:379:GLN:NE2	1.99	0.52
1:s:522:MET:HE2	1:s:570:ASP:HA	1.92	0.52
1:t:342:PRO:HB3	1:v:421:GLN:NE2	2.25	0.52
1:t:475:PRO:HG3	1:t:598:VAL:HG12	1.90	0.52
1:x:421:GLN:HE22	1:y:342:PRO:HB3	1.74	0.52
1:z:498:ASN:OD1	1:z:502:LYS:NZ	2.40	0.52
1:6:253:ARG:HH21	1:6:379:GLN:NE2	1.99	0.52
1:A:421:GLN:NE2	1:G:342:PRO:HB3	2.25	0.51
1:A:618:LYS:HB2	1:A:640:PRO:HG3	1.91	0.51
1:B:421:GLN:NE2	1:J:342:PRO:HB3	2.26	0.51
1:D:522:MET:HE2	1:D:570:ASP:HA	1.92	0.51
1:L:498:ASN:OD1	1:L:502:LYS:NZ	2.40	0.51
1:O:342:PRO:HB3	1:n:421:GLN:HE22	1.74	0.51
1:O:424:ASP:N	1:O:424:ASP:OD1	2.42	0.51
1:O:446:THR:HG23	1:O:449:GLN:HB2	1.91	0.51
1:P:525:ALA:O	1:P:559:SER:OG	2.18	0.51
1:Q:522:MET:HE2	1:Q:570:ASP:HA	1.92	0.51
1:Q:618:LYS:HB2	1:Q:640:PRO:HG3	1.91	0.51
1:S:618:LYS:HB2	1:S:640:PRO:HG3	1.91	0.51
1:U:253:ARG:HH21	1:U:379:GLN:NE2	1.99	0.51
1:W:542:PRO:HG3	1:W:721:PRO:HA	1.91	0.51
1:Z:342:PRO:HB3	1:3:421:GLN:NE2	2.25	0.51
1:a:421:GLN:NE2	1:8:342:PRO:HB3	2.25	0.51
1:k:522:MET:HE2	1:k:570:ASP:HA	1.92	0.51
1:l:522:MET:HE2	1:l:570:ASP:HA	1.92	0.51
1:v:253:ARG:HH21	1:v:379:GLN:NE2	1.98	0.51
1:x:522:MET:HE2	1:x:570:ASP:HA	1.92	0.51
1:x:618:LYS:HB2	1:x:640:PRO:HG3	1.91	0.51
1:1:421:GLN:NE2	1:2:342:PRO:HB3	2.26	0.51
1:1:522:MET:HE2	1:1:570:ASP:HA	1.92	0.51
1:3:424:ASP:OD1	1:3:424:ASP:N	2.42	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:542:PRO:HG3	1:6:721:PRO:HA	1.91	0.51
1:A:253:ARG:HH21	1:A:379:GLN:NE2	1.99	0.51
1:B:522:MET:HE2	1:B:570:ASP:HA	1.92	0.51
1:H:342:PRO:HB3	1:Y:421:GLN:NE2	2.25	0.51
1:H:522:MET:HE2	1:H:570:ASP:HA	1.92	0.51
1:J:542:PRO:HG3	1:J:721:PRO:HA	1.91	0.51
1:M:342:PRO:HB3	1:b:421:GLN:NE2	2.25	0.51
1:P:658:THR:HG22	1:P:659:PHE:H	1.74	0.51
1:R:424:ASP:N	1:R:424:ASP:OD1	2.42	0.51
1:T:475:PRO:HG3	1:T:598:VAL:HG12	1.90	0.51
1:V:421:GLN:NE2	1:e:342:PRO:HB3	2.26	0.51
1:c:342:PRO:HB3	1:p:421:GLN:NE2	2.26	0.51
1:f:421:GLN:NE2	1:h:342:PRO:HB3	2.25	0.51
1:h:658:THR:HG22	1:h:659:PHE:H	1.74	0.51
1:j:421:GLN:HE22	1:k:342:PRO:HB3	1.74	0.51
1:j:658:THR:HG22	1:j:659:PHE:H	1.74	0.51
1:l:424:ASP:OD1	1:l:424:ASP:N	2.42	0.51
1:m:475:PRO:HG3	1:m:598:VAL:HG12	1.90	0.51
1:m:525:ALA:O	1:m:559:SER:OG	2.18	0.51
1:p:424:ASP:N	1:p:424:ASP:OD1	2.42	0.51
1:q:424:ASP:OD1	1:q:424:ASP:N	2.42	0.51
1:t:658:THR:HG22	1:t:659:PHE:H	1.74	0.51
1:v:618:LYS:HB2	1:v:640:PRO:HG3	1.91	0.51
1:w:424:ASP:OD1	1:w:424:ASP:N	2.42	0.51
1:x:658:THR:HG22	1:x:659:PHE:H	1.74	0.51
1:2:542:PRO:HG3	1:2:721:PRO:HA	1.91	0.51
1:G:421:GLN:NE2	1:I:342:PRO:HB3	2.26	0.51
1:K:421:GLN:NE2	1:a:342:PRO:HB3	2.26	0.51
1:P:542:PRO:HG3	1:P:721:PRO:HA	1.91	0.51
1:R:342:PRO:HB3	1:U:421:GLN:NE2	2.26	0.51
1:V:424:ASP:OD1	1:V:424:ASP:N	2.42	0.51
1:W:424:ASP:N	1:W:424:ASP:OD1	2.42	0.51
1:d:424:ASP:OD1	1:d:424:ASP:N	2.42	0.51
1:f:623:ASP:OD1	1:g:415:SER:OG	2.28	0.51
1:j:424:ASP:N	1:j:424:ASP:OD1	2.42	0.51
1:j:446:THR:HG23	1:j:449:GLN:HB2	1.91	0.51
1:j:525:ALA:O	1:j:559:SER:OG	2.18	0.51
1:j:542:PRO:HG3	1:j:721:PRO:HA	1.91	0.51
1:q:342:PRO:HB3	1:s:421:GLN:NE2	2.26	0.51
1:r:618:LYS:HB2	1:r:640:PRO:HG3	1.91	0.51
1:s:424:ASP:N	1:s:424:ASP:OD1	2.42	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:522:MET:HE2	1:3:570:ASP:HA	1.92	0.51
1:3:542:PRO:HG3	1:3:721:PRO:HA	1.91	0.51
1:5:498:ASN:OD1	1:5:502:LYS:NZ	2.40	0.51
1:5:522:MET:HE2	1:5:570:ASP:HA	1.92	0.51
1:A:342:PRO:HB3	1:I:421:GLN:NE2	2.26	0.51
1:C:623:ASP:OD1	1:M:415:SER:OG	2.28	0.51
1:D:342:PRO:HB3	1:P:421:GLN:HE22	1.74	0.51
1:E:424:ASP:N	1:E:424:ASP:OD1	2.42	0.51
1:F:342:PRO:HB3	1:Q:421:GLN:NE2	2.26	0.51
1:F:498:ASN:OD1	1:F:502:LYS:NZ	2.40	0.51
1:G:658:THR:HG22	1:G:659:PHE:H	1.74	0.51
1:K:522:MET:HE2	1:K:570:ASP:HA	1.92	0.51
1:P:446:THR:HG23	1:P:449:GLN:HB2	1.91	0.51
1:R:421:GLN:NE2	1:S:342:PRO:HB3	2.25	0.51
1:U:542:PRO:HG3	1:U:721:PRO:HA	1.91	0.51
1:a:424:ASP:OD1	1:a:424:ASP:N	2.42	0.51
1:a:542:PRO:HG3	1:a:721:PRO:HA	1.91	0.51
1:i:446:THR:HG23	1:i:449:GLN:HB2	1.91	0.51
1:j:522:MET:HE2	1:j:570:ASP:HA	1.92	0.51
1:l:618:LYS:HB2	1:l:640:PRO:HG3	1.91	0.51
1:q:253:ARG:HH21	1:q:379:GLN:NE2	1.99	0.51
1:t:421:GLN:NE2	1:u:342:PRO:HB3	2.26	0.51
1:u:421:GLN:NE2	1:v:342:PRO:HB3	2.26	0.51
1:w:421:GLN:NE2	1:x:342:PRO:HB3	2.26	0.51
1:x:421:GLN:NE2	1:y:342:PRO:HB3	2.26	0.51
1:y:498:ASN:OD1	1:y:502:LYS:NZ	2.40	0.51
1:3:342:PRO:HB3	1:4:421:GLN:NE2	2.26	0.51
1:4:522:MET:HE2	1:4:570:ASP:HA	1.92	0.51
1:5:342:PRO:HB3	1:7:421:GLN:NE2	2.25	0.51
1:7:525:ALA:O	1:7:559:SER:OG	2.18	0.51
1:C:342:PRO:HB3	1:M:421:GLN:NE2	2.26	0.51
1:D:342:PRO:HB3	1:P:421:GLN:NE2	2.26	0.51
1:E:421:GLN:NE2	1:Q:342:PRO:HB3	2.26	0.51
1:R:522:MET:HE2	1:R:570:ASP:HA	1.92	0.51
1:T:522:MET:HE2	1:T:570:ASP:HA	1.92	0.51
1:U:424:ASP:N	1:U:424:ASP:OD1	2.42	0.51
1:d:253:ARG:HH21	1:d:379:GLN:NE2	1.99	0.51
1:g:342:PRO:HB3	1:h:421:GLN:NE2	2.26	0.51
1:n:424:ASP:OD1	1:n:424:ASP:N	2.42	0.51
1:q:421:GLN:NE2	1:r:342:PRO:HB3	2.26	0.51
1:q:522:MET:HE2	1:q:570:ASP:HA	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:415:SER:OG	1:u:623:ASP:OD1	2.28	0.51
1:t:424:ASP:OD1	1:t:424:ASP:N	2.42	0.51
1:u:424:ASP:N	1:u:424:ASP:OD1	2.42	0.51
1:w:342:PRO:HB3	1:y:421:GLN:NE2	2.25	0.51
1:G:424:ASP:N	1:G:424:ASP:OD1	2.42	0.51
1:G:498:ASN:OD1	1:G:502:LYS:NZ	2.40	0.51
1:H:498:ASN:OD1	1:H:502:LYS:NZ	2.40	0.51
1:H:542:PRO:HG3	1:H:721:PRO:HA	1.91	0.51
1:O:618:LYS:HB2	1:O:640:PRO:HG3	1.91	0.51
1:S:522:MET:HE2	1:S:570:ASP:HA	1.92	0.51
1:X:522:MET:HE2	1:X:570:ASP:HA	1.92	0.51
1:Y:618:LYS:HB2	1:Y:640:PRO:HG3	1.91	0.51
1:a:658:THR:HG22	1:a:659:PHE:H	1.74	0.51
1:c:424:ASP:OD1	1:c:424:ASP:N	2.42	0.51
1:c:522:MET:HE2	1:c:570:ASP:HA	1.92	0.51
1:d:522:MET:HE2	1:d:570:ASP:HA	1.92	0.51
1:g:424:ASP:N	1:g:424:ASP:OD1	2.42	0.51
1:n:253:ARG:HH21	1:n:379:GLN:NE2	1.99	0.51
1:n:522:MET:HE2	1:n:570:ASP:HA	1.92	0.51
1:o:522:MET:HE2	1:o:570:ASP:HA	1.92	0.51
1:s:542:PRO:HG3	1:s:721:PRO:HA	1.91	0.51
1:5:542:PRO:HG3	1:5:721:PRO:HA	1.91	0.51
1:6:424:ASP:OD1	1:6:424:ASP:N	2.42	0.51
1:7:618:LYS:HB2	1:7:640:PRO:HG3	1.91	0.51
1:C:542:PRO:HG3	1:C:721:PRO:HA	1.91	0.51
1:E:342:PRO:HB3	1:F:421:GLN:NE2	2.25	0.51
1:F:424:ASP:OD1	1:F:424:ASP:N	2.42	0.51
1:G:415:SER:OG	1:I:623:ASP:OD1	2.28	0.51
1:I:542:PRO:HG3	1:I:721:PRO:HA	1.91	0.51
1:J:446:THR:HG23	1:J:449:GLN:HB2	1.91	0.51
1:N:446:THR:HG23	1:N:449:GLN:HB2	1.91	0.51
1:P:522:MET:HE2	1:P:570:ASP:HA	1.92	0.51
1:R:253:ARG:HH21	1:R:379:GLN:NE2	1.99	0.51
1:R:421:GLN:HE22	1:S:342:PRO:HB3	1.74	0.51
1:T:342:PRO:HB3	1:l:421:GLN:NE2	2.26	0.51
1:V:253:ARG:HH21	1:V:379:GLN:NE2	1.98	0.51
1:V:342:PRO:HB3	1:X:421:GLN:NE2	2.26	0.51
1:X:658:THR:HG22	1:X:659:PHE:H	1.74	0.51
1:c:421:GLN:NE2	1:o:342:PRO:HB3	2.25	0.51
1:e:522:MET:HE2	1:e:570:ASP:HA	1.92	0.51
1:m:522:MET:HE2	1:m:570:ASP:HA	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:658:THR:HG22	1:o:659:PHE:H	1.74	0.51
1:q:421:GLN:HE22	1:r:342:PRO:HB3	1.74	0.51
1:r:522:MET:HE2	1:r:570:ASP:HA	1.92	0.51
1:t:498:ASN:OD1	1:t:502:LYS:NZ	2.40	0.51
1:t:522:MET:HE2	1:t:570:ASP:HA	1.92	0.51
1:y:424:ASP:OD1	1:y:424:ASP:N	2.42	0.51
1:2:618:LYS:HB2	1:2:640:PRO:HG3	1.91	0.51
1:5:421:GLN:NE2	1:6:342:PRO:HB3	2.26	0.51
1:6:525:ALA:O	1:6:559:SER:OG	2.18	0.51
1:A:522:MET:HE2	1:A:570:ASP:HA	1.92	0.51
1:C:424:ASP:OD1	1:C:424:ASP:N	2.42	0.51
1:D:623:ASP:OD1	1:P:415:SER:OG	2.28	0.51
1:G:522:MET:HE2	1:G:570:ASP:HA	1.92	0.51
1:H:421:GLN:NE2	1:W:342:PRO:HB3	2.26	0.51
1:I:424:ASP:OD1	1:I:424:ASP:N	2.42	0.51
1:X:342:PRO:HB3	1:e:421:GLN:NE2	2.25	0.51
1:Z:542:PRO:HG3	1:Z:721:PRO:HA	1.91	0.51
1:b:525:ALA:O	1:b:559:SER:OG	2.18	0.51
1:i:498:ASN:OD1	1:i:502:LYS:NZ	2.40	0.51
1:o:421:GLN:NE2	1:p:342:PRO:HB3	2.26	0.51
1:q:446:THR:HG23	1:q:449:GLN:HB2	1.91	0.51
1:3:658:THR:HG22	1:3:659:PHE:H	1.74	0.51
1:J:618:LYS:HB2	1:J:640:PRO:HG3	1.91	0.51
1:K:424:ASP:OD1	1:K:424:ASP:N	2.42	0.51
1:M:424:ASP:N	1:M:424:ASP:OD1	2.42	0.51
1:O:421:GLN:NE2	1:m:342:PRO:HB3	2.26	0.51
1:V:618:LYS:HB2	1:V:640:PRO:HG3	1.91	0.51
1:b:522:MET:HE2	1:b:570:ASP:HA	1.92	0.51
1:e:424:ASP:N	1:e:424:ASP:OD1	2.42	0.51
1:g:542:PRO:HG3	1:g:721:PRO:HA	1.91	0.51
1:u:542:PRO:HG3	1:u:721:PRO:HA	1.91	0.51
1:v:424:ASP:OD1	1:v:424:ASP:N	2.42	0.51
1:7:522:MET:HE2	1:7:570:ASP:HA	1.92	0.51
1:8:542:PRO:HG3	1:8:721:PRO:HA	1.91	0.51
1:B:342:PRO:HB3	1:L:421:GLN:NE2	2.26	0.51
1:B:618:LYS:HB2	1:B:640:PRO:HG3	1.91	0.51
1:N:498:ASN:OD1	1:N:502:LYS:NZ	2.40	0.51
1:O:342:PRO:HB3	1:n:421:GLN:NE2	2.25	0.51
1:R:446:THR:HG23	1:R:449:GLN:HB2	1.91	0.51
1:U:524:THR:HG1	1:U:560:GLU:H	1.56	0.51
1:W:498:ASN:OD1	1:W:502:LYS:NZ	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:424:ASP:N	1:Z:424:ASP:OD1	2.42	0.51
1:f:522:MET:HE2	1:f:570:ASP:HA	1.92	0.51
1:h:424:ASP:N	1:h:424:ASP:OD1	2.42	0.51
1:q:498:ASN:OD1	1:q:502:LYS:NZ	2.40	0.51
1:v:522:MET:HE2	1:v:570:ASP:HA	1.92	0.51
1:y:522:MET:HE2	1:y:570:ASP:HA	1.92	0.51
1:z:421:GLN:NE2	1:1:342:PRO:HB3	2.26	0.51
1:1:253:ARG:HH21	1:1:379:GLN:NE2	1.99	0.51
1:2:446:THR:HG23	1:2:449:GLN:HB2	1.91	0.51
1:8:424:ASP:OD1	1:8:424:ASP:N	2.42	0.51
1:J:421:GLN:NE2	1:L:342:PRO:HB3	2.25	0.50
1:V:415:SER:OG	1:e:623:ASP:OD1	2.28	0.50
1:c:542:PRO:HG3	1:c:721:PRO:HA	1.91	0.50
1:c:623:ASP:OD1	1:p:415:SER:OG	2.28	0.50
1:m:421:GLN:NE2	1:n:342:PRO:HB3	2.26	0.50
1:p:618:LYS:HB2	1:p:640:PRO:HG3	1.91	0.50
1:A:424:ASP:OD1	1:A:424:ASP:N	2.42	0.50
1:F:522:MET:HE2	1:F:570:ASP:HA	1.92	0.50
1:O:415:SER:OG	1:m:623:ASP:OD1	2.28	0.50
1:W:522:MET:HE2	1:W:570:ASP:HA	1.92	0.50
1:W:525:ALA:O	1:W:559:SER:OG	2.18	0.50
1:Y:522:MET:HE2	1:Y:570:ASP:HA	1.92	0.50
1:b:658:THR:HG22	1:b:659:PHE:H	1.75	0.50
1:d:421:GLN:NE2	1:l:342:PRO:HB3	2.25	0.50
1:e:542:PRO:HG3	1:e:721:PRO:HA	1.91	0.50
1:f:658:THR:HG22	1:f:659:PHE:H	1.75	0.50
1:p:253:ARG:HH21	1:p:379:GLN:NE2	1.98	0.50
1:r:424:ASP:N	1:r:424:ASP:OD1	2.42	0.50
1:1:618:LYS:HB2	1:1:640:PRO:HG3	1.91	0.50
1:4:424:ASP:N	1:4:424:ASP:OD1	2.42	0.50
1:6:498:ASN:OD1	1:6:502:LYS:NZ	2.40	0.50
1:6:522:MET:HE2	1:6:570:ASP:HA	1.92	0.50
1:B:253:ARG:HH21	1:B:379:GLN:NE2	1.99	0.50
1:B:424:ASP:N	1:B:424:ASP:OD1	2.42	0.50
1:K:342:PRO:HB3	1:8:421:GLN:NE2	2.26	0.50
1:R:498:ASN:OD1	1:R:502:LYS:NZ	2.40	0.50
1:T:421:GLN:NE2	1:d:342:PRO:HB3	2.26	0.50
1:T:623:ASP:OD1	1:l:415:SER:OG	2.28	0.50
1:V:522:MET:HE2	1:V:570:ASP:HA	1.92	0.50
1:Z:421:GLN:NE2	1:4:342:PRO:HB3	2.26	0.50
1:e:254:LEU:N	1:e:265:GLY:O	2.35	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:254:LEU:N	1:z:265:GLY:O	2.35	0.50
1:1:424:ASP:OD1	1:1:424:ASP:N	2.42	0.50
1:2:424:ASP:N	1:2:424:ASP:OD1	2.42	0.50
1:D:695:GLU:OE1	1:D:729:LEU:HD22	2.12	0.50
1:H:695:GLU:OE1	1:H:729:LEU:HD22	2.12	0.50
1:J:695:GLU:OE1	1:J:729:LEU:HD22	2.12	0.50
1:S:421:GLN:NE2	1:U:342:PRO:HB3	2.25	0.50
1:S:424:ASP:OD1	1:S:424:ASP:N	2.42	0.50
1:d:695:GLU:OE1	1:d:729:LEU:HD22	2.12	0.50
1:k:695:GLU:OE1	1:k:729:LEU:HD22	2.12	0.50
1:m:254:LEU:N	1:m:265:GLY:O	2.35	0.50
1:m:695:GLU:OE1	1:m:729:LEU:HD22	2.12	0.50
1:n:695:GLU:OE1	1:n:729:LEU:HD22	2.12	0.50
1:r:421:GLN:NE2	1:s:342:PRO:HB3	2.25	0.50
1:2:695:GLU:OE1	1:2:729:LEU:HD22	2.12	0.50
1:5:695:GLU:OE1	1:5:729:LEU:HD22	2.12	0.50
1:J:522:MET:HE2	1:J:570:ASP:HA	1.92	0.50
1:T:695:GLU:OE1	1:T:729:LEU:HD22	2.12	0.50
1:c:254:LEU:N	1:c:265:GLY:O	2.35	0.50
1:p:522:MET:HE2	1:p:570:ASP:HA	1.92	0.50
1:5:658:THR:HG22	1:5:659:PHE:H	1.74	0.50
1:C:415:SER:OG	1:b:623:ASP:OD1	2.28	0.50
1:D:525:ALA:O	1:D:559:SER:OG	2.18	0.50
1:G:695:GLU:OE1	1:G:729:LEU:HD22	2.12	0.50
1:J:424:ASP:N	1:J:424:ASP:OD1	2.42	0.50
1:K:415:SER:OG	1:a:623:ASP:OD1	2.28	0.50
1:Q:498:ASN:OD1	1:Q:502:LYS:NZ	2.40	0.50
1:g:522:MET:HE2	1:g:570:ASP:HA	1.92	0.50
1:l:695:GLU:OE1	1:l:729:LEU:HD22	2.12	0.50
1:m:498:ASN:OD1	1:m:502:LYS:NZ	2.40	0.50
1:x:498:ASN:OD1	1:x:502:LYS:NZ	2.40	0.50
1:z:342:PRO:HB3	1:2:421:GLN:NE2	2.26	0.50
1:1:254:LEU:N	1:1:265:GLY:O	2.35	0.50
1:2:522:MET:HE2	1:2:570:ASP:HA	1.92	0.50
1:3:623:ASP:OD1	1:4:415:SER:OG	2.28	0.50
1:C:421:GLN:NE2	1:b:342:PRO:HB3	2.26	0.50
1:E:570:ASP:OD1	1:E:571:THR:N	2.45	0.50
1:F:695:GLU:OE1	1:F:729:LEU:HD22	2.12	0.50
1:G:570:ASP:OD1	1:G:571:THR:N	2.45	0.50
1:H:658:THR:HG22	1:H:659:PHE:H	1.74	0.50
1:K:570:ASP:OD1	1:K:571:THR:N	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:254:LEU:N	1:L:265:GLY:O	2.35	0.50
1:O:695:GLU:OE1	1:O:729:LEU:HD22	2.12	0.50
1:S:695:GLU:OE1	1:S:729:LEU:HD22	2.12	0.50
1:f:342:PRO:HB3	1:g:421:GLN:NE2	2.26	0.50
1:j:695:GLU:OE1	1:j:729:LEU:HD22	2.12	0.50
1:m:253:ARG:HH21	1:m:379:GLN:NE2	1.99	0.50
1:r:254:LEU:N	1:r:265:GLY:O	2.35	0.50
1:t:570:ASP:OD1	1:t:571:THR:N	2.45	0.50
1:t:695:GLU:OE1	1:t:729:LEU:HD22	2.12	0.50
1:w:570:ASP:OD1	1:w:571:THR:N	2.45	0.50
1:5:253:ARG:HH21	1:5:379:GLN:NE2	1.99	0.50
1:B:695:GLU:OE1	1:B:729:LEU:HD22	2.12	0.50
1:C:522:MET:HE2	1:C:570:ASP:HA	1.92	0.50
1:C:695:GLU:OE1	1:C:729:LEU:HD22	2.12	0.50
1:J:253:ARG:HH21	1:J:379:GLN:NE2	1.99	0.50
1:O:570:ASP:OD1	1:O:571:THR:N	2.45	0.50
1:P:695:GLU:OE1	1:P:729:LEU:HD22	2.12	0.50
1:S:254:LEU:N	1:S:265:GLY:O	2.35	0.50
1:T:498:ASN:OD1	1:T:502:LYS:NZ	2.40	0.50
1:X:695:GLU:OE1	1:X:729:LEU:HD22	2.12	0.50
1:Z:570:ASP:OD1	1:Z:571:THR:N	2.45	0.50
1:r:695:GLU:OE1	1:r:729:LEU:HD22	2.12	0.50
1:y:695:GLU:OE1	1:y:729:LEU:HD22	2.12	0.50
1:1:695:GLU:OE1	1:1:729:LEU:HD22	2.12	0.50
1:4:570:ASP:OD1	1:4:571:THR:N	2.45	0.50
1:7:254:LEU:N	1:7:265:GLY:O	2.35	0.50
1:8:570:ASP:OD1	1:8:571:THR:N	2.45	0.50
1:B:570:ASP:OD1	1:B:571:THR:N	2.45	0.50
1:D:498:ASN:OD1	1:D:502:LYS:NZ	2.40	0.50
1:Q:570:ASP:OD1	1:Q:571:THR:N	2.45	0.50
1:V:695:GLU:OE1	1:V:729:LEU:HD22	2.12	0.50
1:Y:570:ASP:OD1	1:Y:571:THR:N	2.45	0.50
1:Z:576:GLN:HB3	1:Z:590:THR:HG22	1.94	0.50
1:g:695:GLU:OE1	1:g:729:LEU:HD22	2.12	0.50
1:h:570:ASP:OD1	1:h:571:THR:N	2.45	0.50
1:l:570:ASP:OD1	1:l:571:THR:N	2.45	0.50
1:n:570:ASP:OD1	1:n:571:THR:N	2.45	0.50
1:o:695:GLU:OE1	1:o:729:LEU:HD22	2.12	0.50
1:p:695:GLU:OE1	1:p:729:LEU:HD22	2.12	0.50
1:1:570:ASP:OD1	1:1:571:THR:N	2.45	0.50
1:6:695:GLU:OE1	1:6:729:LEU:HD22	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:576:GLN:HB3	1:8:590:THR:HG22	1.94	0.50
1:C:254:LEU:N	1:C:265:GLY:O	2.35	0.49
1:L:570:ASP:OD1	1:L:571:THR:N	2.45	0.49
1:M:570:ASP:OD1	1:M:571:THR:N	2.45	0.49
1:V:525:ALA:O	1:V:559:SER:OG	2.18	0.49
1:W:695:GLU:OE1	1:W:729:LEU:HD22	2.12	0.49
1:Y:695:GLU:OE1	1:Y:729:LEU:HD22	2.12	0.49
1:d:570:ASP:OD1	1:d:571:THR:N	2.45	0.49
1:j:570:ASP:OD1	1:j:571:THR:N	2.45	0.49
1:l:576:GLN:HB3	1:l:590:THR:HG22	1.94	0.49
1:x:570:ASP:OD1	1:x:571:THR:N	2.45	0.49
1:1:498:ASN:OD1	1:1:502:LYS:NZ	2.40	0.49
1:7:570:ASP:OD1	1:7:571:THR:N	2.45	0.49
1:7:695:GLU:OE1	1:7:729:LEU:HD22	2.12	0.49
1:B:254:LEU:N	1:B:265:GLY:O	2.35	0.49
1:E:695:GLU:OE1	1:E:729:LEU:HD22	2.12	0.49
1:O:576:GLN:HB3	1:O:590:THR:HG22	1.94	0.49
1:P:570:ASP:OD1	1:P:571:THR:N	2.45	0.49
1:P:576:GLN:HB3	1:P:590:THR:HG22	1.94	0.49
1:T:253:ARG:HH21	1:T:379:GLN:NE2	1.99	0.49
1:a:253:ARG:NH2	1:a:379:GLN:HE22	2.00	0.49
1:h:576:GLN:HB3	1:h:590:THR:HG22	1.94	0.49
1:k:498:ASN:OD1	1:k:502:LYS:NZ	2.40	0.49
1:u:498:ASN:OD1	1:u:502:LYS:NZ	2.40	0.49
1:y:254:LEU:N	1:y:265:GLY:O	2.35	0.49
1:z:570:ASP:OD1	1:z:571:THR:N	2.45	0.49
1:z:695:GLU:OE1	1:z:729:LEU:HD22	2.12	0.49
1:H:253:ARG:HH21	1:H:379:GLN:NE2	1.99	0.49
1:I:498:ASN:OD1	1:I:502:LYS:NZ	2.40	0.49
1:I:695:GLU:OE1	1:I:729:LEU:HD22	2.12	0.49
1:M:576:GLN:HB3	1:M:590:THR:HG22	1.94	0.49
1:Q:695:GLU:OE1	1:Q:729:LEU:HD22	2.12	0.49
1:U:576:GLN:HB3	1:U:590:THR:HG22	1.95	0.49
1:Y:254:LEU:N	1:Y:265:GLY:O	2.35	0.49
1:j:576:GLN:HB3	1:j:590:THR:HG22	1.94	0.49
1:k:570:ASP:OD1	1:k:571:THR:N	2.45	0.49
1:p:570:ASP:OD1	1:p:571:THR:N	2.45	0.49
1:s:576:GLN:HB3	1:s:590:THR:HG22	1.95	0.49
1:w:695:GLU:OE1	1:w:729:LEU:HD22	2.12	0.49
1:x:576:GLN:HB3	1:x:590:THR:HG22	1.94	0.49
1:2:253:ARG:HH21	1:2:379:GLN:NE2	1.99	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:ASP:OD1	1:D:571:THR:N	2.45	0.49
1:K:695:GLU:OE1	1:K:729:LEU:HD22	2.12	0.49
1:L:695:GLU:OE1	1:L:729:LEU:HD22	2.12	0.49
1:N:253:ARG:HH21	1:N:379:GLN:NE2	1.99	0.49
1:Q:576:GLN:HB3	1:Q:590:THR:HG22	1.94	0.49
1:R:695:GLU:OE1	1:R:729:LEU:HD22	2.12	0.49
1:T:570:ASP:OD1	1:T:571:THR:N	2.45	0.49
1:U:695:GLU:OE1	1:U:729:LEU:HD22	2.12	0.49
1:V:576:GLN:HB3	1:V:590:THR:HG22	1.95	0.49
1:a:570:ASP:OD1	1:a:571:THR:N	2.45	0.49
1:m:570:ASP:OD1	1:m:571:THR:N	2.45	0.49
1:p:525:ALA:O	1:p:559:SER:OG	2.18	0.49
1:p:576:GLN:HB3	1:p:590:THR:HG22	1.95	0.49
1:u:570:ASP:OD1	1:u:571:THR:N	2.45	0.49
1:u:695:GLU:OE1	1:u:729:LEU:HD22	2.12	0.49
1:x:695:GLU:OE1	1:x:729:LEU:HD22	2.12	0.49
1:3:253:ARG:NH2	1:3:379:GLN:HE22	2.00	0.49
1:B:498:ASN:OD1	1:B:502:LYS:NZ	2.40	0.49
1:I:570:ASP:OD1	1:I:571:THR:N	2.45	0.49
1:J:572:ASP:OD1	1:J:573:MET:N	2.46	0.49
1:R:576:GLN:HB3	1:R:590:THR:HG22	1.94	0.49
1:c:695:GLU:OE1	1:c:729:LEU:HD22	2.12	0.49
1:h:498:ASN:OD1	1:h:502:LYS:NZ	2.40	0.49
1:i:253:ARG:HH21	1:i:379:GLN:NE2	1.99	0.49
1:n:576:GLN:HB3	1:n:590:THR:HG22	1.94	0.49
1:q:695:GLU:OE1	1:q:729:LEU:HD22	2.12	0.49
1:s:695:GLU:OE1	1:s:729:LEU:HD22	2.12	0.49
1:v:695:GLU:OE1	1:v:729:LEU:HD22	2.12	0.49
1:y:268:THR:OG1	1:y:366:TYR:O	2.24	0.49
1:z:433:GLN:HG3	1:z:467:TYR:CE1	2.48	0.49
1:1:433:GLN:HG3	1:1:467:TYR:CE1	2.48	0.49
1:2:572:ASP:OD1	1:2:573:MET:N	2.46	0.49
1:3:570:ASP:OD1	1:3:571:THR:N	2.45	0.49
1:3:695:GLU:OE1	1:3:729:LEU:HD22	2.12	0.49
1:4:433:GLN:HG3	1:4:467:TYR:CE1	2.48	0.49
1:4:695:GLU:OE1	1:4:729:LEU:HD22	2.12	0.49
1:A:695:GLU:OE1	1:A:729:LEU:HD22	2.12	0.49
1:B:433:GLN:HG3	1:B:467:TYR:CE1	2.48	0.49
1:D:576:GLN:HB3	1:D:590:THR:HG22	1.94	0.49
1:F:254:LEU:N	1:F:265:GLY:O	2.35	0.49
1:K:433:GLN:HG3	1:K:467:TYR:CE1	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:433:GLN:HG3	1:L:467:TYR:CE1	2.48	0.49
1:N:572:ASP:OD1	1:N:573:MET:N	2.46	0.49
1:N:695:GLU:OE1	1:N:729:LEU:HD22	2.12	0.49
1:U:570:ASP:OD1	1:U:571:THR:N	2.45	0.49
1:a:695:GLU:OE1	1:a:729:LEU:HD22	2.12	0.49
1:b:570:ASP:OD1	1:b:571:THR:N	2.45	0.49
1:e:695:GLU:OE1	1:e:729:LEU:HD22	2.12	0.49
1:g:254:LEU:N	1:g:265:GLY:O	2.35	0.49
1:k:576:GLN:HB3	1:k:590:THR:HG22	1.94	0.49
1:q:576:GLN:HB3	1:q:590:THR:HG22	1.94	0.49
1:t:576:GLN:HB3	1:t:590:THR:HG22	1.94	0.49
1:4:253:ARG:HH21	1:4:379:GLN:NE2	1.99	0.49
1:K:572:ASP:OD1	1:K:573:MET:N	2.46	0.49
1:S:576:GLN:HB3	1:S:590:THR:HG22	1.94	0.49
1:V:623:ASP:OD1	1:X:415:SER:OG	2.28	0.49
1:d:576:GLN:HB3	1:d:590:THR:HG22	1.94	0.49
1:f:570:ASP:OD1	1:f:571:THR:N	2.45	0.49
1:i:572:ASP:OD1	1:i:573:MET:N	2.46	0.49
1:i:623:ASP:OD1	1:k:415:SER:OG	2.29	0.49
1:i:695:GLU:OE1	1:i:729:LEU:HD22	2.12	0.49
1:r:576:GLN:HB3	1:r:590:THR:HG22	1.94	0.49
1:s:570:ASP:OD1	1:s:571:THR:N	2.45	0.49
1:4:572:ASP:OD1	1:4:573:MET:N	2.46	0.49
1:F:268:THR:OG1	1:F:366:TYR:O	2.24	0.49
1:G:576:GLN:HB3	1:G:590:THR:HG22	1.95	0.49
1:J:570:ASP:OD1	1:J:571:THR:N	2.45	0.49
1:N:433:GLN:HG3	1:N:467:TYR:CE1	2.48	0.49
1:O:498:ASN:OD1	1:O:502:LYS:NZ	2.40	0.49
1:V:570:ASP:OD1	1:V:571:THR:N	2.45	0.49
1:Z:433:GLN:HG3	1:Z:467:TYR:CE1	2.48	0.49
1:b:498:ASN:OD1	1:b:502:LYS:NZ	2.40	0.49
1:i:433:GLN:HG3	1:i:467:TYR:CE1	2.48	0.49
1:l:498:ASN:OD1	1:l:502:LYS:NZ	2.40	0.49
1:w:433:GLN:HG3	1:w:467:TYR:CE1	2.48	0.49
1:7:572:ASP:OD1	1:7:573:MET:N	2.46	0.49
1:F:570:ASP:OD1	1:F:571:THR:N	2.45	0.49
1:K:253:ARG:HH21	1:K:379:GLN:NE2	1.99	0.49
1:M:498:ASN:OD1	1:M:502:LYS:NZ	2.40	0.49
1:M:695:GLU:OE1	1:M:729:LEU:HD22	2.12	0.49
1:S:433:GLN:HG3	1:S:467:TYR:CE1	2.48	0.49
1:S:570:ASP:OD1	1:S:571:THR:N	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:572:ASP:OD1	1:U:573:MET:N	2.46	0.49
1:V:498:ASN:OD1	1:V:502:LYS:NZ	2.40	0.49
1:X:433:GLN:HG3	1:X:467:TYR:CE1	2.48	0.49
1:X:570:ASP:OD1	1:X:571:THR:N	2.45	0.49
1:Y:572:ASP:OD1	1:Y:573:MET:N	2.46	0.49
1:b:695:GLU:OE1	1:b:729:LEU:HD22	2.12	0.49
1:f:498:ASN:OD1	1:f:502:LYS:NZ	2.40	0.49
1:g:572:ASP:OD1	1:g:573:MET:N	2.46	0.49
1:o:415:SER:OG	1:p:623:ASP:OD1	2.28	0.49
1:o:433:GLN:HG3	1:o:467:TYR:CE1	2.48	0.49
1:o:570:ASP:OD1	1:o:571:THR:N	2.45	0.49
1:t:433:GLN:HG3	1:t:467:TYR:CE1	2.48	0.49
1:y:570:ASP:OD1	1:y:571:THR:N	2.45	0.49
1:2:570:ASP:OD1	1:2:571:THR:N	2.45	0.49
1:5:570:ASP:OD1	1:5:571:THR:N	2.45	0.49
1:8:433:GLN:HG3	1:8:467:TYR:CE1	2.48	0.49
1:8:572:ASP:OD1	1:8:573:MET:N	2.46	0.49
1:A:433:GLN:HG3	1:A:467:TYR:CE1	2.48	0.49
1:A:572:ASP:OD1	1:A:573:MET:N	2.46	0.49
1:C:433:GLN:HG3	1:C:467:TYR:CE1	2.48	0.49
1:C:572:ASP:OD1	1:C:573:MET:N	2.46	0.49
1:E:433:GLN:HG3	1:E:467:TYR:CE1	2.48	0.49
1:G:433:GLN:HG3	1:G:467:TYR:CE1	2.48	0.49
1:H:570:ASP:OD1	1:H:571:THR:N	2.45	0.49
1:J:458:LYS:NZ	1:L:350:GLU:OE2	2.44	0.49
1:R:433:GLN:HG3	1:R:467:TYR:CE1	2.48	0.49
1:Z:572:ASP:OD1	1:Z:573:MET:N	2.46	0.49
1:e:433:GLN:HG3	1:e:467:TYR:CE1	2.48	0.49
1:e:576:GLN:HB3	1:e:590:THR:HG22	1.94	0.49
1:f:695:GLU:OE1	1:f:729:LEU:HD22	2.12	0.49
1:g:433:GLN:HG3	1:g:467:TYR:CE1	2.48	0.49
1:i:576:GLN:HB3	1:i:590:THR:HG22	1.94	0.49
1:l:433:GLN:HG3	1:l:467:TYR:CE1	2.48	0.49
1:r:433:GLN:HG3	1:r:467:TYR:CE1	2.48	0.49
1:r:570:ASP:OD1	1:r:571:THR:N	2.45	0.49
1:s:572:ASP:OD1	1:s:573:MET:N	2.46	0.49
1:v:572:ASP:OD1	1:v:573:MET:N	2.46	0.49
1:8:498:ASN:OD1	1:8:502:LYS:NZ	2.40	0.49
1:A:570:ASP:OD1	1:A:571:THR:N	2.45	0.48
1:C:570:ASP:OD1	1:C:571:THR:N	2.45	0.48
1:P:433:GLN:HG3	1:P:467:TYR:CE1	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:433:GLN:HG3	1:T:467:TYR:CE1	2.48	0.48
1:V:433:GLN:HG3	1:V:467:TYR:CE1	2.48	0.48
1:Z:498:ASN:OD1	1:Z:502:LYS:NZ	2.40	0.48
1:c:433:GLN:HG3	1:c:467:TYR:CE1	2.48	0.48
1:f:433:GLN:HG3	1:f:467:TYR:CE1	2.48	0.48
1:h:695:GLU:OE1	1:h:729:LEU:HD22	2.12	0.48
1:j:254:LEU:N	1:j:265:GLY:O	2.35	0.48
1:n:268:THR:OG1	1:n:366:TYR:O	2.24	0.48
1:o:576:GLN:HB3	1:o:590:THR:HG22	1.94	0.48
1:q:433:GLN:HG3	1:q:467:TYR:CE1	2.48	0.48
1:q:570:ASP:OD1	1:q:571:THR:N	2.45	0.48
1:u:572:ASP:OD1	1:u:573:MET:N	2.46	0.48
1:z:350:GLU:OE2	1:2:458:LYS:NZ	2.45	0.48
1:6:433:GLN:HG3	1:6:467:TYR:CE1	2.48	0.48
1:8:695:GLU:OE1	1:8:729:LEU:HD22	2.12	0.48
1:B:415:SER:OG	1:J:623:ASP:OD1	2.28	0.48
1:M:433:GLN:HG3	1:M:467:TYR:CE1	2.48	0.48
1:O:433:GLN:HG3	1:O:467:TYR:CE1	2.48	0.48
1:R:570:ASP:OD1	1:R:571:THR:N	2.45	0.48
1:U:233:VAL:HG13	1:U:682:TRP:HB2	1.96	0.48
1:W:433:GLN:HG3	1:W:467:TYR:CE1	2.48	0.48
1:W:570:ASP:OD1	1:W:571:THR:N	2.45	0.48
1:X:576:GLN:HB3	1:X:590:THR:HG22	1.94	0.48
1:b:433:GLN:HG3	1:b:467:TYR:CE1	2.48	0.48
1:c:576:GLN:HB3	1:c:590:THR:HG22	1.94	0.48
1:d:433:GLN:HG3	1:d:467:TYR:CE1	2.48	0.48
1:g:570:ASP:OD1	1:g:571:THR:N	2.45	0.48
1:k:433:GLN:HG3	1:k:467:TYR:CE1	2.48	0.48
1:l:233:VAL:HG13	1:l:682:TRP:HB2	1.96	0.48
1:m:433:GLN:HG3	1:m:467:TYR:CE1	2.48	0.48
1:p:433:GLN:HG3	1:p:467:TYR:CE1	2.48	0.48
1:p:498:ASN:OD1	1:p:502:LYS:NZ	2.40	0.48
1:s:233:VAL:HG13	1:s:682:TRP:HB2	1.96	0.48
1:u:433:GLN:HG3	1:u:467:TYR:CE1	2.48	0.48
1:v:433:GLN:HG3	1:v:467:TYR:CE1	2.48	0.48
1:v:570:ASP:OD1	1:v:571:THR:N	2.45	0.48
1:5:433:GLN:HG3	1:5:467:TYR:CE1	2.48	0.48
1:F:576:GLN:HB3	1:F:590:THR:HG22	1.94	0.48
1:H:433:GLN:HG3	1:H:467:TYR:CE1	2.48	0.48
1:I:433:GLN:HG3	1:I:467:TYR:CE1	2.48	0.48
1:I:572:ASP:OD1	1:I:573:MET:N	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:VAL:HG13	1:N:682:TRP:HB2	1.96	0.48
1:N:576:GLN:HB3	1:N:590:THR:HG22	1.94	0.48
1:O:233:VAL:HG13	1:O:682:TRP:HB2	1.96	0.48
1:U:433:GLN:HG3	1:U:467:TYR:CE1	2.48	0.48
1:W:576:GLN:HB3	1:W:590:THR:HG22	1.94	0.48
1:Z:695:GLU:OE1	1:Z:729:LEU:HD22	2.12	0.48
1:a:576:GLN:HB3	1:a:590:THR:HG22	1.94	0.48
1:c:572:ASP:OD1	1:c:573:MET:N	2.46	0.48
1:d:233:VAL:HG13	1:d:682:TRP:HB2	1.96	0.48
1:h:433:GLN:HG3	1:h:467:TYR:CE1	2.48	0.48
1:i:570:ASP:OD1	1:i:571:THR:N	2.45	0.48
1:j:433:GLN:HG3	1:j:467:TYR:CE1	2.48	0.48
1:n:233:VAL:HG13	1:n:682:TRP:HB2	1.96	0.48
1:n:433:GLN:HG3	1:n:467:TYR:CE1	2.48	0.48
1:q:233:VAL:HG13	1:q:682:TRP:HB2	1.96	0.48
1:s:433:GLN:HG3	1:s:467:TYR:CE1	2.48	0.48
1:w:576:GLN:HB3	1:w:590:THR:HG22	1.95	0.48
1:y:433:GLN:HG3	1:y:467:TYR:CE1	2.48	0.48
1:3:576:GLN:HB3	1:3:590:THR:HG22	1.94	0.48
1:6:572:ASP:OD1	1:6:573:MET:N	2.46	0.48
1:E:576:GLN:HB3	1:E:590:THR:HG22	1.94	0.48
1:F:433:GLN:HG3	1:F:467:TYR:CE1	2.48	0.48
1:H:576:GLN:HB3	1:H:590:THR:HG22	1.94	0.48
1:I:233:VAL:HG13	1:I:682:TRP:HB2	1.96	0.48
1:M:233:VAL:HG13	1:M:682:TRP:HB2	1.96	0.48
1:R:233:VAL:HG13	1:R:682:TRP:HB2	1.96	0.48
1:T:233:VAL:HG13	1:T:682:TRP:HB2	1.96	0.48
1:W:572:ASP:OD1	1:W:573:MET:N	2.46	0.48
1:Y:576:GLN:HB3	1:Y:590:THR:HG22	1.94	0.48
1:c:570:ASP:OD1	1:c:571:THR:N	2.45	0.48
1:e:570:ASP:OD1	1:e:571:THR:N	2.45	0.48
1:e:572:ASP:OD1	1:e:573:MET:N	2.46	0.48
1:h:233:VAL:HG13	1:h:682:TRP:HB2	1.96	0.48
1:i:233:VAL:HG13	1:i:682:TRP:HB2	1.96	0.48
1:m:233:VAL:HG13	1:m:682:TRP:HB2	1.96	0.48
1:p:572:ASP:OD1	1:p:573:MET:N	2.46	0.48
1:u:233:VAL:HG13	1:u:682:TRP:HB2	1.96	0.48
1:y:576:GLN:HB3	1:y:590:THR:HG22	1.94	0.48
1:z:576:GLN:HB3	1:z:590:THR:HG22	1.94	0.48
1:6:570:ASP:OD1	1:6:571:THR:N	2.45	0.48
1:6:576:GLN:HB3	1:6:590:THR:HG22	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:233:VAL:HG13	1:7:682:TRP:HB2	1.96	0.48
1:A:233:VAL:HG13	1:A:682:TRP:HB2	1.96	0.48
1:C:576:GLN:HB3	1:C:590:THR:HG22	1.95	0.48
1:D:433:GLN:HG3	1:D:467:TYR:CE1	2.48	0.48
1:L:233:VAL:HG13	1:L:682:TRP:HB2	1.96	0.48
1:L:576:GLN:HB3	1:L:590:THR:HG22	1.95	0.48
1:N:570:ASP:OD1	1:N:571:THR:N	2.45	0.48
1:P:254:LEU:N	1:P:265:GLY:O	2.35	0.48
1:V:572:ASP:OD1	1:V:573:MET:N	2.46	0.48
1:Y:233:VAL:HG13	1:Y:682:TRP:HB2	1.96	0.48
1:j:714:THR:O	1:x:252:LEU:HD22	2.14	0.48
1:o:498:ASN:OD1	1:o:502:LYS:NZ	2.40	0.48
1:z:233:VAL:HG13	1:z:682:TRP:HB2	1.96	0.48
1:1:415:SER:OG	1:2:623:ASP:OD1	2.28	0.48
1:2:433:GLN:HG3	1:2:467:TYR:CE1	2.48	0.48
1:5:576:GLN:HB3	1:5:590:THR:HG22	1.94	0.48
1:I:277:ARG:NH2	1:I:279:HIS:HE1	2.12	0.48
1:J:433:GLN:HG3	1:J:467:TYR:CE1	2.48	0.48
1:K:576:GLN:HB3	1:K:590:THR:HG22	1.95	0.48
1:M:572:ASP:OD1	1:M:573:MET:N	2.46	0.48
1:U:277:ARG:NH2	1:U:279:HIS:HE1	2.12	0.48
1:g:576:GLN:HB3	1:g:590:THR:HG22	1.95	0.48
1:h:572:ASP:OD1	1:h:573:MET:N	2.46	0.48
1:j:277:ARG:NH2	1:j:279:HIS:HE1	2.12	0.48
1:s:277:ARG:NH2	1:s:279:HIS:HE1	2.12	0.48
1:v:233:VAL:HG13	1:v:682:TRP:HB2	1.96	0.48
1:7:576:GLN:HB3	1:7:590:THR:HG22	1.94	0.48
1:A:277:ARG:NH2	1:A:279:HIS:HE1	2.12	0.48
1:C:277:ARG:NH2	1:C:279:HIS:HE1	2.12	0.48
1:O:348:GLY:O	1:n:433:GLN:HG2	2.14	0.48
1:P:277:ARG:NH2	1:P:279:HIS:HE1	2.12	0.48
1:Q:433:GLN:HG3	1:Q:467:TYR:CE1	2.48	0.48
1:S:277:ARG:NH2	1:S:279:HIS:HE1	2.12	0.48
1:X:572:ASP:OD1	1:X:573:MET:N	2.46	0.48
1:Y:433:GLN:HG3	1:Y:467:TYR:CE1	2.48	0.48
1:a:433:GLN:HG3	1:a:467:TYR:CE1	2.48	0.48
1:b:253:ARG:HH21	1:b:379:GLN:NE2	1.99	0.48
1:b:576:GLN:HB3	1:b:590:THR:HG22	1.94	0.48
1:i:452:ALA:HB2	1:j:491:LYS:HE2	1.96	0.48
1:q:276:ASN:OD1	1:q:615:ILE:N	2.46	0.48
1:u:277:ARG:NH2	1:u:279:HIS:HE1	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:433:GLN:HG3	1:x:467:TYR:CE1	2.48	0.48
1:4:576:GLN:HB3	1:4:590:THR:HG22	1.95	0.48
1:E:233:VAL:HG13	1:E:682:TRP:HB2	1.96	0.48
1:E:281:HIS:HE1	1:E:678:VAL:HG11	1.79	0.48
1:G:253:ARG:NH2	1:G:379:GLN:HE22	2.00	0.48
1:L:277:ARG:NH2	1:L:279:HIS:HE1	2.12	0.48
1:N:714:THR:O	1:m:252:LEU:HD22	2.14	0.48
1:P:466:PHE:O	1:P:468:ARG:NH1	2.47	0.48
1:T:277:ARG:NH2	1:T:279:HIS:HE1	2.12	0.48
1:Y:466:PHE:O	1:Y:468:ARG:NH1	2.47	0.48
1:f:576:GLN:HB3	1:f:590:THR:HG22	1.94	0.48
1:g:277:ARG:NH2	1:g:279:HIS:HE1	2.12	0.48
1:l:281:HIS:HE1	1:l:678:VAL:HG11	1.79	0.48
1:l:572:ASP:OD1	1:l:573:MET:N	2.46	0.48
1:m:277:ARG:NH2	1:m:279:HIS:HE1	2.12	0.48
1:n:277:ARG:NH2	1:n:279:HIS:HE1	2.12	0.48
1:o:233:VAL:HG13	1:o:682:TRP:HB2	1.96	0.48
1:p:466:PHE:O	1:p:468:ARG:NH1	2.47	0.48
1:r:277:ARG:NH2	1:r:279:HIS:HE1	2.12	0.48
1:u:576:GLN:HB3	1:u:590:THR:HG22	1.94	0.48
1:v:277:ARG:NH2	1:v:279:HIS:HE1	2.12	0.48
1:w:276:ASN:OD1	1:w:615:ILE:N	2.46	0.48
1:w:281:HIS:HE1	1:w:678:VAL:HG11	1.79	0.48
1:z:277:ARG:NH2	1:z:279:HIS:HE1	2.12	0.48
1:z:281:HIS:HE1	1:z:678:VAL:HG11	1.79	0.48
1:7:433:GLN:HG3	1:7:467:TYR:CE1	2.48	0.48
1:7:466:PHE:O	1:7:468:ARG:NH1	2.47	0.48
1:C:281:HIS:HE1	1:C:678:VAL:HG11	1.79	0.48
1:F:233:VAL:HG13	1:F:682:TRP:HB2	1.96	0.48
1:F:623:ASP:OD1	1:Q:415:SER:OG	2.28	0.48
1:G:277:ARG:NH2	1:G:279:HIS:HE1	2.12	0.48
1:L:281:HIS:HE1	1:L:678:VAL:HG11	1.79	0.48
1:O:281:HIS:HE1	1:O:678:VAL:HG11	1.79	0.48
1:O:572:ASP:OD1	1:O:573:MET:N	2.46	0.48
1:R:276:ASN:OD1	1:R:615:ILE:N	2.46	0.48
1:T:466:PHE:O	1:T:468:ARG:NH1	2.47	0.48
1:V:466:PHE:O	1:V:468:ARG:NH1	2.47	0.48
1:X:233:VAL:HG13	1:X:682:TRP:HB2	1.96	0.48
1:X:277:ARG:NH2	1:X:279:HIS:HE1	2.12	0.48
1:X:498:ASN:OD1	1:X:502:LYS:NZ	2.40	0.48
1:Z:277:ARG:NH2	1:Z:279:HIS:HE1	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:466:PHE:O	1:c:468:ARG:NH1	2.47	0.48
1:d:277:ARG:NH2	1:d:279:HIS:HE1	2.12	0.48
1:d:433:GLN:HG2	1:l:348:GLY:O	2.14	0.48
1:e:466:PHE:O	1:e:468:ARG:NH1	2.47	0.48
1:g:281:HIS:HE1	1:g:678:VAL:HG11	1.79	0.48
1:j:466:PHE:O	1:j:468:ARG:NH1	2.47	0.48
1:o:277:ARG:NH2	1:o:279:HIS:HE1	2.12	0.48
1:o:572:ASP:OD1	1:o:573:MET:N	2.46	0.48
1:w:233:VAL:HG13	1:w:682:TRP:HB2	1.96	0.48
1:3:433:GLN:HG3	1:3:467:TYR:CE1	2.48	0.48
1:4:466:PHE:O	1:4:468:ARG:NH1	2.47	0.48
1:5:466:PHE:O	1:5:468:ARG:NH1	2.47	0.48
1:8:277:ARG:NH2	1:8:279:HIS:HE1	2.12	0.48
1:A:576:GLN:HB3	1:A:590:THR:HG22	1.94	0.48
1:B:576:GLN:HB3	1:B:590:THR:HG22	1.94	0.48
1:D:277:ARG:NH2	1:D:279:HIS:HE1	2.12	0.48
1:E:415:SER:OG	1:Q:623:ASP:OD1	2.28	0.48
1:F:281:HIS:HE1	1:F:678:VAL:HG11	1.79	0.48
1:H:466:PHE:O	1:H:468:ARG:NH1	2.47	0.48
1:I:576:GLN:HB3	1:I:590:THR:HG22	1.95	0.48
1:J:233:VAL:HG13	1:J:682:TRP:HB2	1.96	0.48
1:K:466:PHE:O	1:K:468:ARG:NH1	2.47	0.48
1:O:277:ARG:NH2	1:O:279:HIS:HE1	2.12	0.48
1:S:466:PHE:O	1:S:468:ARG:NH1	2.47	0.48
1:S:525:ALA:O	1:S:559:SER:OG	2.18	0.48
1:T:252:LEU:HD22	1:i:714:THR:O	2.14	0.48
1:T:572:ASP:OD1	1:T:573:MET:N	2.46	0.48
1:T:576:GLN:HB3	1:T:590:THR:HG22	1.95	0.48
1:X:466:PHE:O	1:X:468:ARG:NH1	2.47	0.48
1:b:466:PHE:O	1:b:468:ARG:NH1	2.47	0.48
1:c:281:HIS:HE1	1:c:678:VAL:HG11	1.79	0.48
1:f:466:PHE:O	1:f:468:ARG:NH1	2.47	0.48
1:k:277:ARG:NH2	1:k:279:HIS:HE1	2.12	0.48
1:m:466:PHE:O	1:m:468:ARG:NH1	2.47	0.48
1:m:576:GLN:HB3	1:m:590:THR:HG22	1.95	0.48
1:o:466:PHE:O	1:o:468:ARG:NH1	2.47	0.48
1:t:277:ARG:NH2	1:t:279:HIS:HE1	2.12	0.48
1:v:466:PHE:O	1:v:468:ARG:NH1	2.47	0.48
1:y:233:VAL:HG13	1:y:682:TRP:HB2	1.96	0.48
1:1:576:GLN:HB3	1:1:590:THR:HG22	1.94	0.48
1:3:281:HIS:HE1	1:3:678:VAL:HG11	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:233:VAL:HG13	1:6:682:TRP:HB2	1.96	0.48
1:A:466:PHE:O	1:A:468:ARG:NH1	2.47	0.47
1:B:466:PHE:O	1:B:468:ARG:NH1	2.47	0.47
1:E:276:ASN:OD1	1:E:615:ILE:N	2.46	0.47
1:K:252:LEU:HD22	1:7:714:THR:O	2.14	0.47
1:N:281:HIS:HE1	1:N:678:VAL:HG11	1.79	0.47
1:R:277:ARG:NH2	1:R:279:HIS:HE1	2.12	0.47
1:R:466:PHE:O	1:R:468:ARG:NH1	2.47	0.47
1:T:281:HIS:HE1	1:T:678:VAL:HG11	1.79	0.47
1:W:233:VAL:HG13	1:W:682:TRP:HB2	1.96	0.47
1:W:466:PHE:O	1:W:468:ARG:NH1	2.47	0.47
1:a:466:PHE:O	1:a:468:ARG:NH1	2.47	0.47
1:e:281:HIS:HE1	1:e:678:VAL:HG11	1.79	0.47
1:f:233:VAL:HG13	1:f:682:TRP:HB2	1.96	0.47
1:f:253:ARG:HH21	1:f:379:GLN:NE2	1.99	0.47
1:l:277:ARG:NH2	1:l:279:HIS:HE1	2.12	0.47
1:m:281:HIS:HE1	1:m:678:VAL:HG11	1.79	0.47
1:m:572:ASP:OD1	1:m:573:MET:N	2.46	0.47
1:q:466:PHE:O	1:q:468:ARG:NH1	2.47	0.47
1:r:466:PHE:O	1:r:468:ARG:NH1	2.47	0.47
1:s:281:HIS:HE1	1:s:678:VAL:HG11	1.79	0.47
1:t:253:ARG:NH2	1:t:379:GLN:HE22	2.00	0.47
1:t:276:ASN:OD1	1:t:615:ILE:N	2.46	0.47
1:v:576:GLN:HB3	1:v:590:THR:HG22	1.94	0.47
1:y:281:HIS:HE1	1:y:678:VAL:HG11	1.79	0.47
1:3:466:PHE:O	1:3:468:ARG:NH1	2.47	0.47
1:6:466:PHE:O	1:6:468:ARG:NH1	2.47	0.47
1:7:277:ARG:NH2	1:7:279:HIS:HE1	2.12	0.47
1:A:253:ARG:NH2	1:A:379:GLN:HE22	2.00	0.47
1:A:415:SER:OG	1:G:623:ASP:OD1	2.28	0.47
1:B:233:VAL:HG13	1:B:682:TRP:HB2	1.96	0.47
1:F:466:PHE:O	1:F:468:ARG:NH1	2.47	0.47
1:I:253:ARG:NH2	1:I:379:GLN:HE22	2.00	0.47
1:J:247:ASN:OD1	1:J:365:GLN:NE2	2.48	0.47
1:U:247:ASN:OD1	1:U:365:GLN:NE2	2.48	0.47
1:U:281:HIS:HE1	1:U:678:VAL:HG11	1.79	0.47
1:V:247:ASN:OD1	1:V:365:GLN:NE2	2.48	0.47
1:Y:277:ARG:NH2	1:Y:279:HIS:HE1	2.12	0.47
1:Y:714:THR:O	1:4:252:LEU:HD22	2.14	0.47
1:Z:247:ASN:OD1	1:Z:365:GLN:NE2	2.48	0.47
1:b:233:VAL:HG13	1:b:682:TRP:HB2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:281:HIS:HE1	1:b:678:VAL:HG11	1.79	0.47
1:i:276:ASN:OD1	1:i:615:ILE:N	2.46	0.47
1:i:277:ARG:NH2	1:i:279:HIS:HE1	2.12	0.47
1:n:247:ASN:OD1	1:n:365:GLN:NE2	2.48	0.47
1:p:247:ASN:OD1	1:p:365:GLN:NE2	2.48	0.47
1:q:277:ARG:NH2	1:q:279:HIS:HE1	2.12	0.47
1:x:415:SER:OG	1:y:623:ASP:OD1	2.28	0.47
1:y:466:PHE:O	1:y:468:ARG:NH1	2.47	0.47
1:1:233:VAL:HG13	1:1:682:TRP:HB2	1.96	0.47
1:1:466:PHE:O	1:1:468:ARG:NH1	2.47	0.47
1:2:233:VAL:HG13	1:2:682:TRP:HB2	1.96	0.47
1:2:247:ASN:OD1	1:2:365:GLN:NE2	2.48	0.47
1:8:247:ASN:OD1	1:8:365:GLN:NE2	2.48	0.47
1:E:466:PHE:O	1:E:468:ARG:NH1	2.47	0.47
1:G:276:ASN:OD1	1:G:615:ILE:N	2.46	0.47
1:G:281:HIS:HE1	1:G:678:VAL:HG11	1.79	0.47
1:I:466:PHE:O	1:I:468:ARG:NH1	2.47	0.47
1:J:466:PHE:O	1:J:468:ARG:NH1	2.47	0.47
1:M:276:ASN:OD1	1:M:615:ILE:N	2.46	0.47
1:N:276:ASN:OD1	1:N:615:ILE:N	2.46	0.47
1:Q:247:ASN:OD1	1:Q:365:GLN:NE2	2.48	0.47
1:R:349:GLN:OE1	1:U:428:ASN:HB3	2.15	0.47
1:V:348:GLY:O	1:X:433:GLN:HG2	2.15	0.47
1:Z:281:HIS:HE1	1:Z:678:VAL:HG11	1.79	0.47
1:a:281:HIS:HE1	1:a:678:VAL:HG11	1.79	0.47
1:d:247:ASN:OD1	1:d:365:GLN:NE2	2.48	0.47
1:f:281:HIS:HE1	1:f:678:VAL:HG11	1.79	0.47
1:h:276:ASN:OD1	1:h:615:ILE:N	2.46	0.47
1:i:281:HIS:HE1	1:i:678:VAL:HG11	1.79	0.47
1:n:466:PHE:O	1:n:468:ARG:NH1	2.47	0.47
1:o:433:GLN:HG2	1:p:348:GLY:O	2.15	0.47
1:q:349:GLN:OE1	1:s:428:ASN:HB3	2.15	0.47
1:s:247:ASN:OD1	1:s:365:GLN:NE2	2.48	0.47
1:s:253:ARG:NH2	1:s:379:GLN:HE22	2.00	0.47
1:t:281:HIS:HE1	1:t:678:VAL:HG11	1.79	0.47
1:t:466:PHE:O	1:t:468:ARG:NH1	2.47	0.47
1:v:253:ARG:NH2	1:v:379:GLN:HE22	2.00	0.47
1:w:466:PHE:O	1:w:468:ARG:NH1	2.47	0.47
1:x:247:ASN:OD1	1:x:365:GLN:NE2	2.48	0.47
1:x:466:PHE:O	1:x:468:ARG:NH1	2.47	0.47
1:z:349:GLN:OE1	1:2:428:ASN:HB3	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:466:PHE:O	1:2:468:ARG:NH1	2.47	0.47
1:2:576:GLN:HB3	1:2:590:THR:HG22	1.94	0.47
1:7:281:HIS:HE1	1:7:678:VAL:HG11	1.79	0.47
1:A:281:HIS:HE1	1:A:678:VAL:HG11	1.79	0.47
1:B:277:ARG:NH2	1:B:279:HIS:HE1	2.12	0.47
1:C:348:GLY:O	1:M:433:GLN:HG2	2.15	0.47
1:G:433:GLN:HG2	1:I:348:GLY:O	2.15	0.47
1:H:433:GLN:HG2	1:W:348:GLY:O	2.15	0.47
1:M:466:PHE:O	1:M:468:ARG:NH1	2.47	0.47
1:N:277:ARG:NH2	1:N:279:HIS:HE1	2.12	0.47
1:O:414:HIS:HB2	1:O:635:PHE:CE1	2.50	0.47
1:P:247:ASN:OD1	1:P:365:GLN:NE2	2.48	0.47
1:Q:466:PHE:O	1:Q:468:ARG:NH1	2.47	0.47
1:R:281:HIS:HE1	1:R:678:VAL:HG11	1.79	0.47
1:S:247:ASN:OD1	1:S:365:GLN:NE2	2.48	0.47
1:T:247:ASN:OD1	1:T:365:GLN:NE2	2.48	0.47
1:X:247:ASN:OD1	1:X:365:GLN:NE2	2.48	0.47
1:Y:281:HIS:HE1	1:Y:678:VAL:HG11	1.79	0.47
1:a:277:ARG:NH2	1:a:279:HIS:HE1	2.12	0.47
1:d:466:PHE:O	1:d:468:ARG:NH1	2.47	0.47
1:g:348:GLY:O	1:h:433:GLN:HG2	2.15	0.47
1:h:466:PHE:O	1:h:468:ARG:NH1	2.47	0.47
1:l:414:HIS:HB2	1:l:635:PHE:CE1	2.50	0.47
1:l:466:PHE:O	1:l:468:ARG:NH1	2.47	0.47
1:m:247:ASN:OD1	1:m:365:GLN:NE2	2.48	0.47
1:q:281:HIS:HE1	1:q:678:VAL:HG11	1.79	0.47
1:r:247:ASN:OD1	1:r:365:GLN:NE2	2.48	0.47
1:t:433:GLN:HG2	1:u:348:GLY:O	2.15	0.47
1:u:466:PHE:O	1:u:468:ARG:NH1	2.47	0.47
1:v:281:HIS:HE1	1:v:678:VAL:HG11	1.79	0.47
1:v:288:GLN:NE2	1:v:698:PHE:O	2.47	0.47
1:x:288:GLN:NE2	1:x:698:PHE:O	2.47	0.47
1:y:277:ARG:NH2	1:y:279:HIS:HE1	2.12	0.47
1:1:277:ARG:NH2	1:1:279:HIS:HE1	2.12	0.47
1:3:277:ARG:NH2	1:3:279:HIS:HE1	2.12	0.47
1:5:433:GLN:HG2	1:6:348:GLY:O	2.15	0.47
1:8:281:HIS:HE1	1:8:678:VAL:HG11	1.79	0.47
1:A:414:HIS:HB2	1:A:635:PHE:CE1	2.50	0.47
1:B:348:GLY:O	1:L:433:GLN:HG2	2.15	0.47
1:C:349:GLN:OE1	1:M:428:ASN:HB3	2.15	0.47
1:D:433:GLN:HG2	1:N:348:GLY:O	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:466:PHE:O	1:D:468:ARG:NH1	2.47	0.47
1:E:349:GLN:OE1	1:F:428:ASN:HB3	2.15	0.47
1:E:428:ASN:HB3	1:Q:349:GLN:OE1	2.15	0.47
1:E:433:GLN:HG2	1:Q:348:GLY:O	2.15	0.47
1:F:277:ARG:NH2	1:F:279:HIS:HE1	2.12	0.47
1:G:414:HIS:HB2	1:G:635:PHE:CE1	2.50	0.47
1:G:466:PHE:O	1:G:468:ARG:NH1	2.47	0.47
1:G:572:ASP:OD1	1:G:573:MET:N	2.46	0.47
1:H:277:ARG:NH2	1:H:279:HIS:HE1	2.12	0.47
1:I:380:THR:H	1:I:383:ASN:ND2	2.13	0.47
1:J:576:GLN:HB3	1:J:590:THR:HG22	1.94	0.47
1:K:277:ARG:NH2	1:K:279:HIS:HE1	2.12	0.47
1:L:466:PHE:O	1:L:468:ARG:NH1	2.47	0.47
1:O:466:PHE:O	1:O:468:ARG:NH1	2.47	0.47
1:Q:572:ASP:OD1	1:Q:573:MET:N	2.46	0.47
1:S:281:HIS:HE1	1:S:678:VAL:HG11	1.79	0.47
1:U:253:ARG:NH2	1:U:379:GLN:HE22	2.00	0.47
1:b:277:ARG:NH2	1:b:279:HIS:HE1	2.12	0.47
1:d:414:HIS:HB2	1:d:635:PHE:CE1	2.50	0.47
1:g:349:GLN:OE1	1:h:428:ASN:HB3	2.15	0.47
1:h:281:HIS:HE1	1:h:678:VAL:HG11	1.79	0.47
1:j:247:ASN:OD1	1:j:365:GLN:NE2	2.48	0.47
1:n:414:HIS:HB2	1:n:635:PHE:CE1	2.50	0.47
1:o:247:ASN:OD1	1:o:365:GLN:NE2	2.48	0.47
1:r:281:HIS:HE1	1:r:678:VAL:HG11	1.79	0.47
1:t:414:HIS:HB2	1:t:635:PHE:CE1	2.50	0.47
1:t:623:ASP:OD1	1:v:415:SER:OG	2.28	0.47
1:u:253:ARG:NH2	1:u:379:GLN:HE22	2.00	0.47
1:u:380:THR:H	1:u:383:ASN:ND2	2.13	0.47
1:v:414:HIS:HB2	1:v:635:PHE:CE1	2.50	0.47
1:w:349:GLN:OE1	1:y:428:ASN:HB3	2.15	0.47
1:w:433:GLN:HG2	1:x:348:GLY:O	2.15	0.47
1:z:466:PHE:O	1:z:468:ARG:NH1	2.47	0.47
1:4:277:ARG:NH2	1:4:279:HIS:HE1	2.12	0.47
1:4:380:THR:H	1:4:383:ASN:ND2	2.13	0.47
1:5:277:ARG:NH2	1:5:279:HIS:HE1	2.12	0.47
1:B:281:HIS:HE1	1:B:678:VAL:HG11	1.79	0.47
1:B:433:GLN:HG2	1:J:348:GLY:O	2.15	0.47
1:C:247:ASN:OD1	1:C:365:GLN:NE2	2.48	0.47
1:C:466:PHE:O	1:C:468:ARG:NH1	2.47	0.47
1:E:414:HIS:HB2	1:E:635:PHE:CE1	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:380:THR:H	1:F:383:ASN:ND2	2.13	0.47
1:G:233:VAL:HG13	1:G:682:TRP:HB2	1.96	0.47
1:G:253:ARG:HH21	1:G:379:GLN:NE2	1.99	0.47
1:J:254:LEU:N	1:J:265:GLY:O	2.35	0.47
1:J:428:ASN:HB3	1:L:349:GLN:OE1	2.15	0.47
1:K:380:THR:H	1:K:383:ASN:ND2	2.13	0.47
1:L:247:ASN:OD1	1:L:365:GLN:NE2	2.48	0.47
1:L:414:HIS:HB2	1:L:635:PHE:CE1	2.50	0.47
1:M:380:THR:H	1:M:383:ASN:ND2	2.13	0.47
1:N:247:ASN:OD1	1:N:365:GLN:NE2	2.48	0.47
1:O:428:ASN:HB3	1:m:349:GLN:OE1	2.15	0.47
1:Q:414:HIS:HB2	1:Q:635:PHE:CE1	2.50	0.47
1:R:348:GLY:O	1:U:433:GLN:HG2	2.15	0.47
1:T:349:GLN:OE1	1:l:428:ASN:HB3	2.15	0.47
1:X:414:HIS:HB2	1:X:635:PHE:CE1	2.50	0.47
1:Z:348:GLY:O	1:3:433:GLN:HG2	2.14	0.47
1:b:572:ASP:OD1	1:b:573:MET:N	2.46	0.47
1:c:247:ASN:OD1	1:c:365:GLN:NE2	2.48	0.47
1:d:428:ASN:HB3	1:l:349:GLN:OE1	2.15	0.47
1:f:277:ARG:NH2	1:f:279:HIS:HE1	2.12	0.47
1:g:466:PHE:O	1:g:468:ARG:NH1	2.47	0.47
1:h:380:THR:H	1:h:383:ASN:ND2	2.13	0.47
1:i:247:ASN:OD1	1:i:365:GLN:NE2	2.48	0.47
1:i:466:PHE:O	1:i:468:ARG:NH1	2.47	0.47
1:k:466:PHE:O	1:k:468:ARG:NH1	2.47	0.47
1:o:414:HIS:HB2	1:o:635:PHE:CE1	2.50	0.47
1:p:233:VAL:HG13	1:p:682:TRP:HB2	1.96	0.47
1:q:253:ARG:NH2	1:q:379:GLN:HE22	2.00	0.47
1:q:348:GLY:O	1:s:433:GLN:HG2	2.15	0.47
1:q:433:GLN:HG2	1:r:348:GLY:O	2.15	0.47
1:r:525:ALA:O	1:r:559:SER:OG	2.18	0.47
1:x:414:HIS:HB2	1:x:635:PHE:CE1	2.50	0.47
1:x:572:ASP:OD1	1:x:573:MET:N	2.46	0.47
1:y:276:ASN:OD1	1:y:615:ILE:N	2.46	0.47
1:y:380:THR:H	1:y:383:ASN:ND2	2.13	0.47
1:z:414:HIS:HB2	1:z:635:PHE:CE1	2.50	0.47
1:2:277:ARG:NH2	1:2:279:HIS:HE1	2.12	0.47
1:3:380:THR:H	1:3:383:ASN:ND2	2.13	0.47
1:7:691:ARG:HD3	1:7:695:GLU:HG3	1.97	0.47
1:A:380:THR:H	1:A:383:ASN:ND2	2.13	0.47
1:A:558:THR:HG23	1:A:610:TYR:CZ	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:428:ASN:HB3	1:J:349:GLN:OE1	2.15	0.47
1:C:380:THR:H	1:C:383:ASN:ND2	2.13	0.47
1:C:691:ARG:HD3	1:C:695:GLU:HG3	1.97	0.47
1:D:281:HIS:HE1	1:D:678:VAL:HG11	1.79	0.47
1:D:288:GLN:NE2	1:D:698:PHE:O	2.47	0.47
1:E:247:ASN:OD1	1:E:365:GLN:NE2	2.48	0.47
1:F:276:ASN:OD1	1:F:615:ILE:N	2.46	0.47
1:F:348:GLY:O	1:Q:433:GLN:HG2	2.15	0.47
1:H:233:VAL:HG13	1:H:682:TRP:HB2	1.96	0.47
1:H:349:GLN:HE21	1:Y:467:TYR:HE1	1.63	0.47
1:H:414:HIS:HB2	1:H:635:PHE:CE1	2.50	0.47
1:I:247:ASN:OD1	1:I:365:GLN:NE2	2.48	0.47
1:J:277:ARG:NH2	1:J:279:HIS:HE1	2.12	0.47
1:J:414:HIS:HB2	1:J:635:PHE:CE1	2.50	0.47
1:J:433:GLN:HG2	1:L:348:GLY:O	2.15	0.47
1:K:233:VAL:HG13	1:K:682:TRP:HB2	1.96	0.47
1:K:349:GLN:OE1	1:8:428:ASN:HB3	2.15	0.47
1:M:281:HIS:HE1	1:M:678:VAL:HG11	1.79	0.47
1:M:558:THR:HG23	1:M:610:TYR:CZ	2.50	0.47
1:N:466:PHE:O	1:N:468:ARG:NH1	2.47	0.47
1:N:467:TYR:HE1	1:P:349:GLN:HE21	1.63	0.47
1:O:240:THR:O	1:O:360:VAL:HG23	2.15	0.47
1:O:349:GLN:OE1	1:n:428:ASN:HB3	2.15	0.47
1:P:233:VAL:HG13	1:P:682:TRP:HB2	1.96	0.47
1:P:691:ARG:HD3	1:P:695:GLU:HG3	1.97	0.47
1:Q:558:THR:HG23	1:Q:610:TYR:CZ	2.50	0.47
1:R:247:ASN:OD1	1:R:365:GLN:NE2	2.48	0.47
1:R:428:ASN:HB3	1:S:349:GLN:OE1	2.15	0.47
1:R:433:GLN:HG2	1:S:348:GLY:O	2.15	0.47
1:S:288:GLN:NE2	1:S:698:PHE:O	2.47	0.47
1:S:415:SER:OG	1:U:623:ASP:OD1	2.28	0.47
1:T:276:ASN:OD1	1:T:615:ILE:N	2.46	0.47
1:U:466:PHE:O	1:U:468:ARG:NH1	2.47	0.47
1:V:233:VAL:HG13	1:V:682:TRP:HB2	1.96	0.47
1:V:277:ARG:NH2	1:V:279:HIS:HE1	2.12	0.47
1:V:281:HIS:HE1	1:V:678:VAL:HG11	1.79	0.47
1:W:247:ASN:OD1	1:W:365:GLN:NE2	2.48	0.47
1:X:691:ARG:HD3	1:X:695:GLU:HG3	1.97	0.47
1:Y:691:ARG:HD3	1:Y:695:GLU:HG3	1.97	0.47
1:Z:428:ASN:HB3	1:4:349:GLN:OE1	2.15	0.47
1:a:233:VAL:HG13	1:a:682:TRP:HB2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:380:THR:H	1:a:383:ASN:ND2	2.13	0.47
1:a:414:HIS:HB2	1:a:635:PHE:CE1	2.50	0.47
1:a:433:GLN:HG2	1:8:348:GLY:O	2.14	0.47
1:a:467:TYR:HE1	1:8:349:GLN:HE21	1.63	0.47
1:a:558:THR:HG23	1:a:610:TYR:CZ	2.50	0.47
1:b:380:THR:H	1:b:383:ASN:ND2	2.13	0.47
1:c:428:ASN:HB3	1:o:349:GLN:OE1	2.15	0.47
1:c:691:ARG:HD3	1:c:695:GLU:HG3	1.97	0.47
1:d:691:ARG:HD3	1:d:695:GLU:HG3	1.97	0.47
1:e:233:VAL:HG13	1:e:682:TRP:HB2	1.96	0.47
1:e:247:ASN:OD1	1:e:365:GLN:NE2	2.48	0.47
1:e:691:ARG:HD3	1:e:695:GLU:HG3	1.97	0.47
1:f:380:THR:H	1:f:383:ASN:ND2	2.13	0.47
1:f:572:ASP:OD1	1:f:573:MET:N	2.46	0.47
1:g:247:ASN:OD1	1:g:365:GLN:NE2	2.48	0.47
1:g:380:THR:H	1:g:383:ASN:ND2	2.13	0.47
1:g:691:ARG:HD3	1:g:695:GLU:HG3	1.97	0.47
1:h:558:THR:HG23	1:h:610:TYR:CZ	2.50	0.47
1:i:348:GLY:O	1:k:433:GLN:HG2	2.15	0.47
1:i:467:TYR:HE1	1:j:349:GLN:HE21	1.63	0.47
1:j:691:ARG:HD3	1:j:695:GLU:HG3	1.97	0.47
1:k:281:HIS:HE1	1:k:678:VAL:HG11	1.79	0.47
1:k:288:GLN:NE2	1:k:698:PHE:O	2.47	0.47
1:k:380:THR:H	1:k:383:ASN:ND2	2.13	0.47
1:l:240:THR:O	1:l:360:VAL:HG23	2.15	0.47
1:l:608:ASP:OD1	1:l:609:ILE:N	2.48	0.47
1:n:691:ARG:HD3	1:n:695:GLU:HG3	1.97	0.47
1:p:277:ARG:NH2	1:p:279:HIS:HE1	2.12	0.47
1:q:247:ASN:OD1	1:q:365:GLN:NE2	2.48	0.47
1:q:428:ASN:HB3	1:r:349:GLN:OE1	2.15	0.47
1:r:415:SER:OG	1:s:623:ASP:OD1	2.28	0.47
1:r:428:ASN:HB3	1:s:349:GLN:OE1	2.15	0.47
1:s:466:PHE:O	1:s:468:ARG:NH1	2.47	0.47
1:t:233:VAL:HG13	1:t:682:TRP:HB2	1.96	0.47
1:t:380:THR:H	1:t:383:ASN:ND2	2.13	0.47
1:t:572:ASP:OD1	1:t:573:MET:N	2.46	0.47
1:t:691:ARG:HD3	1:t:695:GLU:HG3	1.97	0.47
1:u:247:ASN:OD1	1:u:365:GLN:NE2	2.48	0.47
1:v:558:THR:HG23	1:v:610:TYR:CZ	2.50	0.47
1:w:247:ASN:OD1	1:w:365:GLN:NE2	2.48	0.47
1:w:277:ARG:NH2	1:w:279:HIS:HE1	2.12	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:414:HIS:HB2	1:w:635:PHE:CE1	2.50	0.47
1:w:428:ASN:HB3	1:x:349:GLN:OE1	2.15	0.47
1:x:428:ASN:HB3	1:y:349:GLN:OE1	2.15	0.47
1:x:433:GLN:HG2	1:y:348:GLY:O	2.15	0.47
1:x:558:THR:HG23	1:x:610:TYR:CZ	2.50	0.47
1:z:247:ASN:OD1	1:z:365:GLN:NE2	2.48	0.47
1:z:433:GLN:HG2	1:1:348:GLY:O	2.15	0.47
1:1:281:HIS:HE1	1:1:678:VAL:HG11	1.79	0.47
1:1:380:THR:H	1:1:383:ASN:ND2	2.13	0.47
1:1:428:ASN:HB3	1:2:349:GLN:OE1	2.15	0.47
1:1:433:GLN:HG2	1:2:348:GLY:O	2.15	0.47
1:1:572:ASP:OD1	1:1:573:MET:N	2.46	0.47
1:2:254:LEU:N	1:2:265:GLY:O	2.35	0.47
1:2:414:HIS:HB2	1:2:635:PHE:CE1	2.50	0.47
1:3:233:VAL:HG13	1:3:682:TRP:HB2	1.96	0.47
1:3:414:HIS:HB2	1:3:635:PHE:CE1	2.50	0.47
1:3:558:THR:HG23	1:3:610:TYR:CZ	2.50	0.47
1:3:572:ASP:OD1	1:3:573:MET:N	2.46	0.47
1:4:233:VAL:HG13	1:4:682:TRP:HB2	1.96	0.47
1:5:414:HIS:HB2	1:5:635:PHE:CE1	2.50	0.47
1:5:428:ASN:HB3	1:6:349:GLN:OE1	2.15	0.47
1:6:247:ASN:OD1	1:6:365:GLN:NE2	2.48	0.47
1:7:414:HIS:HB2	1:7:635:PHE:CE1	2.50	0.47
1:B:349:GLN:OE1	1:L:428:ASN:HB3	2.15	0.47
1:B:380:THR:H	1:B:383:ASN:ND2	2.13	0.47
1:B:414:HIS:HB2	1:B:635:PHE:CE1	2.50	0.47
1:B:572:ASP:OD1	1:B:573:MET:N	2.46	0.47
1:D:349:GLN:OE1	1:P:428:ASN:HB3	2.15	0.47
1:F:247:ASN:OD1	1:F:365:GLN:NE2	2.48	0.47
1:G:380:THR:H	1:G:383:ASN:ND2	2.13	0.47
1:G:691:ARG:HD3	1:G:695:GLU:HG3	1.97	0.47
1:H:281:HIS:HE1	1:H:678:VAL:HG11	1.79	0.47
1:H:428:ASN:HB3	1:W:349:GLN:OE1	2.15	0.47
1:I:558:THR:HG23	1:I:610:TYR:CZ	2.50	0.47
1:J:299:PRO:HD3	1:J:635:PHE:CE2	2.50	0.47
1:L:558:THR:HG23	1:L:610:TYR:CZ	2.50	0.47
1:L:572:ASP:OD1	1:L:573:MET:N	2.46	0.47
1:M:348:GLY:O	1:b:433:GLN:HG2	2.14	0.47
1:N:414:HIS:HB2	1:N:635:PHE:CE1	2.50	0.47
1:O:608:ASP:OD1	1:O:609:ILE:N	2.48	0.47
1:R:253:ARG:NH2	1:R:379:GLN:HE22	2.00	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:380:THR:H	1:S:383:ASN:ND2	2.13	0.47
1:S:414:HIS:HB2	1:S:635:PHE:CE1	2.50	0.47
1:S:428:ASN:HB3	1:U:349:GLN:OE1	2.15	0.47
1:T:414:HIS:HB2	1:T:635:PHE:CE1	2.50	0.47
1:U:691:ARG:HD3	1:U:695:GLU:HG3	1.97	0.47
1:V:349:GLN:OE1	1:X:428:ASN:HB3	2.15	0.47
1:W:414:HIS:HB2	1:W:635:PHE:CE1	2.50	0.47
1:X:349:GLN:OE1	1:e:428:ASN:HB3	2.15	0.47
1:Y:414:HIS:HB2	1:Y:635:PHE:CE1	2.50	0.47
1:Z:233:VAL:HG13	1:Z:682:TRP:HB2	1.96	0.47
1:Z:466:PHE:O	1:Z:468:ARG:NH1	2.47	0.47
1:a:240:THR:O	1:a:360:VAL:HG23	2.15	0.47
1:c:233:VAL:HG13	1:c:682:TRP:HB2	1.96	0.47
1:c:240:THR:O	1:c:360:VAL:HG23	2.15	0.47
1:c:414:HIS:HB2	1:c:635:PHE:CE1	2.50	0.47
1:d:276:ASN:OD1	1:d:615:ILE:N	2.46	0.47
1:h:691:ARG:HD3	1:h:695:GLU:HG3	1.97	0.47
1:i:414:HIS:HB2	1:i:635:PHE:CE1	2.50	0.47
1:j:233:VAL:HG13	1:j:682:TRP:HB2	1.96	0.47
1:j:572:ASP:OD1	1:j:573:MET:N	2.46	0.47
1:m:414:HIS:HB2	1:m:635:PHE:CE1	2.50	0.47
1:n:276:ASN:OD1	1:n:615:ILE:N	2.46	0.47
1:n:525:ALA:O	1:n:559:SER:OG	2.18	0.47
1:o:428:ASN:HB3	1:p:349:GLN:OE1	2.15	0.47
1:o:691:ARG:HD3	1:o:695:GLU:HG3	1.97	0.47
1:p:281:HIS:HE1	1:p:678:VAL:HG11	1.79	0.47
1:r:380:THR:H	1:r:383:ASN:ND2	2.13	0.47
1:s:558:THR:HG23	1:s:610:TYR:CZ	2.50	0.47
1:u:558:THR:HG23	1:u:610:TYR:CZ	2.50	0.47
1:v:380:THR:H	1:v:383:ASN:ND2	2.13	0.47
1:x:233:VAL:HG13	1:x:682:TRP:HB2	1.96	0.47
1:z:348:GLY:O	1:2:433:GLN:HG2	2.15	0.47
1:z:558:THR:HG23	1:z:610:TYR:CZ	2.50	0.47
1:1:247:ASN:OD1	1:1:365:GLN:NE2	2.48	0.47
1:3:240:THR:O	1:3:360:VAL:HG23	2.15	0.47
1:4:247:ASN:OD1	1:4:365:GLN:NE2	2.48	0.47
1:4:281:HIS:HE1	1:4:678:VAL:HG11	1.79	0.47
1:5:233:VAL:HG13	1:5:682:TRP:HB2	1.96	0.47
1:5:281:HIS:HE1	1:5:678:VAL:HG11	1.79	0.47
1:6:414:HIS:HB2	1:6:635:PHE:CE1	2.50	0.47
1:7:247:ASN:OD1	1:7:365:GLN:NE2	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:233:VAL:HG13	1:8:682:TRP:HB2	1.96	0.47
1:8:466:PHE:O	1:8:468:ARG:NH1	2.47	0.47
1:B:247:ASN:OD1	1:B:365:GLN:NE2	2.48	0.47
1:C:233:VAL:HG13	1:C:682:TRP:HB2	1.96	0.47
1:D:558:THR:HG23	1:D:610:TYR:CZ	2.50	0.47
1:F:253:ARG:HH21	1:F:379:GLN:NE2	1.98	0.47
1:F:349:GLN:OE1	1:Q:428:ASN:HB3	2.15	0.47
1:G:428:ASN:HB3	1:I:349:GLN:OE1	2.15	0.47
1:H:558:THR:HG23	1:H:610:TYR:CZ	2.50	0.47
1:I:691:ARG:HD3	1:I:695:GLU:HG3	1.97	0.47
1:J:558:THR:HG23	1:J:610:TYR:CZ	2.50	0.47
1:J:691:ARG:HD3	1:J:695:GLU:HG3	1.97	0.47
1:K:247:ASN:OD1	1:K:365:GLN:NE2	2.48	0.47
1:K:276:ASN:OD1	1:K:615:ILE:N	2.46	0.47
1:K:288:GLN:NE2	1:K:698:PHE:O	2.47	0.47
1:L:608:ASP:OD1	1:L:609:ILE:N	2.48	0.47
1:L:691:ARG:HD3	1:L:695:GLU:HG3	1.97	0.47
1:M:691:ARG:HD3	1:M:695:GLU:HG3	1.97	0.47
1:P:572:ASP:OD1	1:P:573:MET:N	2.46	0.47
1:Q:233:VAL:HG13	1:Q:682:TRP:HB2	1.96	0.47
1:S:608:ASP:OD1	1:S:609:ILE:N	2.48	0.47
1:U:558:THR:HG23	1:U:610:TYR:CZ	2.50	0.47
1:W:277:ARG:NH2	1:W:279:HIS:HE1	2.12	0.47
1:W:299:PRO:HD3	1:W:635:PHE:CE2	2.50	0.47
1:X:299:PRO:HD3	1:X:635:PHE:CE2	2.50	0.47
1:Y:247:ASN:OD1	1:Y:365:GLN:NE2	2.48	0.47
1:Y:380:THR:H	1:Y:383:ASN:ND2	2.13	0.47
1:Z:349:GLN:HE21	1:3:467:TYR:HE1	1.63	0.47
1:Z:414:HIS:HB2	1:Z:635:PHE:CE1	2.50	0.47
1:a:572:ASP:OD1	1:a:573:MET:N	2.46	0.47
1:b:247:ASN:OD1	1:b:365:GLN:NE2	2.48	0.47
1:b:608:ASP:OD1	1:b:609:ILE:N	2.48	0.47
1:b:691:ARG:HD3	1:b:695:GLU:HG3	1.97	0.47
1:e:240:THR:O	1:e:360:VAL:HG23	2.15	0.47
1:e:414:HIS:HB2	1:e:635:PHE:CE1	2.50	0.47
1:f:247:ASN:OD1	1:f:365:GLN:NE2	2.48	0.47
1:f:433:GLN:HG2	1:h:348:GLY:O	2.14	0.47
1:f:608:ASP:OD1	1:f:609:ILE:N	2.48	0.47
1:g:233:VAL:HG13	1:g:682:TRP:HB2	1.96	0.47
1:j:281:HIS:HE1	1:j:678:VAL:HG11	1.79	0.47
1:j:652:PRO:HG2	1:l:242:VAL:HB	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:558:THR:HG23	1:k:610:TYR:CZ	2.50	0.47
1:l:299:PRO:HD3	1:l:635:PHE:CE2	2.50	0.47
1:m:276:ASN:OD1	1:m:615:ILE:N	2.46	0.47
1:q:623:ASP:OD1	1:s:415:SER:OG	2.28	0.47
1:r:414:HIS:HB2	1:r:635:PHE:CE1	2.50	0.47
1:r:608:ASP:OD1	1:r:609:ILE:N	2.48	0.47
1:s:691:ARG:HD3	1:s:695:GLU:HG3	1.97	0.47
1:t:247:ASN:OD1	1:t:365:GLN:NE2	2.48	0.47
1:u:691:ARG:HD3	1:u:695:GLU:HG3	1.97	0.47
1:v:247:ASN:OD1	1:v:365:GLN:NE2	2.48	0.47
1:w:348:GLY:O	1:y:433:GLN:HG2	2.14	0.47
1:y:253:ARG:HH21	1:y:379:GLN:NE2	1.98	0.47
1:z:608:ASP:OD1	1:z:609:ILE:N	2.48	0.47
1:z:691:ARG:HD3	1:z:695:GLU:HG3	1.97	0.47
1:1:414:HIS:HB2	1:1:635:PHE:CE1	2.50	0.47
1:2:299:PRO:HD3	1:2:635:PHE:CE2	2.50	0.47
1:5:349:GLN:HE21	1:7:467:TYR:HE1	1.63	0.47
1:5:558:THR:HG23	1:5:610:TYR:CZ	2.50	0.47
1:6:299:PRO:HD3	1:6:635:PHE:CE2	2.50	0.47
1:A:247:ASN:OD1	1:A:365:GLN:NE2	2.48	0.47
1:A:349:GLN:OE1	1:I:428:ASN:HB3	2.15	0.47
1:C:558:THR:HG23	1:C:610:TYR:CZ	2.50	0.47
1:D:380:THR:H	1:D:383:ASN:ND2	2.13	0.47
1:D:608:ASP:OD1	1:D:609:ILE:N	2.48	0.47
1:E:277:ARG:NH2	1:E:279:HIS:HE1	2.12	0.47
1:E:572:ASP:OD1	1:E:573:MET:N	2.46	0.47
1:F:558:THR:HG23	1:F:610:TYR:CZ	2.50	0.47
1:G:247:ASN:OD1	1:G:365:GLN:NE2	2.48	0.47
1:H:247:ASN:OD1	1:H:365:GLN:NE2	2.48	0.47
1:I:281:HIS:HE1	1:I:678:VAL:HG11	1.79	0.47
1:J:240:THR:O	1:J:360:VAL:HG23	2.15	0.47
1:K:281:HIS:HE1	1:K:678:VAL:HG11	1.79	0.47
1:O:299:PRO:HD3	1:O:635:PHE:CE2	2.50	0.47
1:P:240:THR:O	1:P:360:VAL:HG23	2.15	0.47
1:P:281:HIS:HE1	1:P:678:VAL:HG11	1.79	0.47
1:P:608:ASP:OD1	1:P:609:ILE:N	2.48	0.47
1:Q:277:ARG:NH2	1:Q:279:HIS:HE1	2.12	0.47
1:T:240:THR:O	1:T:360:VAL:HG23	2.15	0.47
1:U:608:ASP:OD1	1:U:609:ILE:N	2.48	0.47
1:W:288:GLN:NE2	1:W:698:PHE:O	2.47	0.47
1:W:608:ASP:OD1	1:W:609:ILE:N	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:380:THR:H	1:X:383:ASN:ND2	2.13	0.47
1:Z:349:GLN:OE1	1:3:428:ASN:HB3	2.15	0.47
1:a:247:ASN:OD1	1:a:365:GLN:NE2	2.48	0.47
1:a:428:ASN:HB3	1:8:349:GLN:OE1	2.15	0.47
1:c:277:ARG:NH2	1:c:279:HIS:HE1	2.12	0.47
1:d:299:PRO:HD3	1:d:635:PHE:CE2	2.50	0.47
1:f:691:ARG:HD3	1:f:695:GLU:HG3	1.97	0.47
1:h:247:ASN:OD1	1:h:365:GLN:NE2	2.48	0.47
1:i:240:THR:O	1:i:360:VAL:HG23	2.15	0.47
1:i:299:PRO:HD3	1:i:635:PHE:CE2	2.50	0.47
1:i:558:THR:HG23	1:i:610:TYR:CZ	2.50	0.47
1:j:428:ASN:HB3	1:k:349:GLN:OE1	2.15	0.47
1:j:608:ASP:OD1	1:j:609:ILE:N	2.48	0.47
1:k:233:VAL:HG13	1:k:682:TRP:HB2	1.96	0.47
1:m:240:THR:O	1:m:360:VAL:HG23	2.15	0.47
1:m:380:THR:H	1:m:383:ASN:ND2	2.13	0.47
1:n:299:PRO:HD3	1:n:635:PHE:CE2	2.50	0.47
1:o:299:PRO:HD3	1:o:635:PHE:CE2	2.50	0.47
1:p:380:THR:H	1:p:383:ASN:ND2	2.13	0.47
1:r:233:VAL:HG13	1:r:682:TRP:HB2	1.96	0.47
1:s:299:PRO:HD3	1:s:635:PHE:CE2	2.50	0.47
1:s:445:GLU:OE1	1:s:445:GLU:N	2.47	0.47
1:s:608:ASP:OD1	1:s:609:ILE:N	2.48	0.47
1:t:428:ASN:HB3	1:u:349:GLN:OE1	2.15	0.47
1:w:572:ASP:OD1	1:w:573:MET:N	2.46	0.47
1:x:277:ARG:NH2	1:x:279:HIS:HE1	2.12	0.47
1:y:247:ASN:OD1	1:y:365:GLN:NE2	2.48	0.47
1:y:572:ASP:OD1	1:y:573:MET:N	2.46	0.47
1:y:691:ARG:HD3	1:y:695:GLU:HG3	1.97	0.47
1:z:428:ASN:HB3	1:1:349:GLN:OE1	2.15	0.47
1:z:467:TYR:HE1	1:1:349:GLN:HE21	1.63	0.47
1:2:240:THR:O	1:2:360:VAL:HG23	2.15	0.47
1:2:558:THR:HG23	1:2:610:TYR:CZ	2.50	0.47
1:2:691:ARG:HD3	1:2:695:GLU:HG3	1.97	0.47
1:3:247:ASN:OD1	1:3:365:GLN:NE2	2.48	0.47
1:4:288:GLN:NE2	1:4:698:PHE:O	2.47	0.47
1:4:558:THR:HG23	1:4:610:TYR:CZ	2.50	0.47
1:6:277:ARG:NH2	1:6:279:HIS:HE1	2.12	0.47
1:6:288:GLN:NE2	1:6:698:PHE:O	2.47	0.47
1:8:414:HIS:HB2	1:8:635:PHE:CE1	2.50	0.47
1:A:608:ASP:OD1	1:A:609:ILE:N	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:299:PRO:HD3	1:B:635:PHE:CE2	2.50	0.46
1:B:349:GLN:HE21	1:L:467:TYR:HE1	1.64	0.46
1:B:558:THR:HG23	1:B:610:TYR:CZ	2.50	0.46
1:C:414:HIS:HB2	1:C:635:PHE:CE1	2.50	0.46
1:D:247:ASN:OD1	1:D:365:GLN:NE2	2.48	0.46
1:E:348:GLY:O	1:F:433:GLN:HG2	2.14	0.46
1:F:414:HIS:HB2	1:F:635:PHE:CE1	2.50	0.46
1:F:691:ARG:HD3	1:F:695:GLU:HG3	1.97	0.46
1:K:558:THR:HG23	1:K:610:TYR:CZ	2.50	0.46
1:M:247:ASN:OD1	1:M:365:GLN:NE2	2.48	0.46
1:N:558:THR:HG23	1:N:610:TYR:CZ	2.50	0.46
1:O:247:ASN:OD1	1:O:365:GLN:NE2	2.48	0.46
1:O:288:GLN:NE2	1:O:698:PHE:O	2.47	0.46
1:Q:281:HIS:HE1	1:Q:678:VAL:HG11	1.79	0.46
1:T:348:GLY:O	1:l:433:GLN:HG2	2.15	0.46
1:T:380:THR:H	1:T:383:ASN:ND2	2.13	0.46
1:T:433:GLN:HG2	1:d:348:GLY:O	2.15	0.46
1:T:691:ARG:HD3	1:T:695:GLU:HG3	1.97	0.46
1:U:299:PRO:HD3	1:U:635:PHE:CE2	2.50	0.46
1:V:299:PRO:HD3	1:V:635:PHE:CE2	2.50	0.46
1:V:380:THR:H	1:V:383:ASN:ND2	2.13	0.46
1:Z:415:SER:OG	1:4:623:ASP:OD1	2.28	0.46
1:b:558:THR:HG23	1:b:610:TYR:CZ	2.50	0.46
1:c:433:GLN:HG2	1:o:348:GLY:O	2.14	0.46
1:c:558:THR:HG23	1:c:610:TYR:CZ	2.50	0.46
1:d:240:THR:O	1:d:360:VAL:HG23	2.15	0.46
1:e:558:THR:HG23	1:e:610:TYR:CZ	2.50	0.46
1:f:349:GLN:HE21	1:g:467:TYR:HE1	1.63	0.46
1:g:414:HIS:HB2	1:g:635:PHE:CE1	2.50	0.46
1:g:558:THR:HG23	1:g:610:TYR:CZ	2.50	0.46
1:j:240:THR:O	1:j:360:VAL:HG23	2.15	0.46
1:j:380:THR:H	1:j:383:ASN:ND2	2.13	0.46
1:j:558:THR:HG23	1:j:610:TYR:CZ	2.50	0.46
1:k:608:ASP:OD1	1:k:609:ILE:N	2.48	0.46
1:l:247:ASN:OD1	1:l:365:GLN:NE2	2.48	0.46
1:m:433:GLN:HG2	1:n:348:GLY:O	2.15	0.46
1:m:558:THR:HG23	1:m:610:TYR:CZ	2.50	0.46
1:m:691:ARG:HD3	1:m:695:GLU:HG3	1.97	0.46
1:n:558:THR:HG23	1:n:610:TYR:CZ	2.50	0.46
1:o:380:THR:H	1:o:383:ASN:ND2	2.13	0.46
1:o:558:THR:HG23	1:o:610:TYR:CZ	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:299:PRO:HD3	1:p:635:PHE:CE2	2.50	0.46
1:q:558:THR:HG23	1:q:610:TYR:CZ	2.50	0.46
1:t:558:THR:HG23	1:t:610:TYR:CZ	2.50	0.46
1:u:428:ASN:HB3	1:v:349:GLN:OE1	2.15	0.46
1:v:608:ASP:OD1	1:v:609:ILE:N	2.48	0.46
1:x:691:ARG:HD3	1:x:695:GLU:HG3	1.97	0.46
1:y:414:HIS:HB2	1:y:635:PHE:CE1	2.50	0.46
1:z:572:ASP:OD1	1:z:573:MET:N	2.46	0.46
1:1:299:PRO:HD3	1:1:635:PHE:CE2	2.50	0.46
1:3:608:ASP:OD1	1:3:609:ILE:N	2.48	0.46
1:4:276:ASN:OD1	1:4:615:ILE:N	2.46	0.46
1:6:608:ASP:OD1	1:6:609:ILE:N	2.48	0.46
1:7:380:THR:H	1:7:383:ASN:ND2	2.13	0.46
1:C:433:GLN:HG2	1:b:348:GLY:O	2.15	0.46
1:C:467:TYR:HE1	1:b:349:GLN:HE21	1.63	0.46
1:E:240:THR:O	1:E:360:VAL:HG23	2.15	0.46
1:F:572:ASP:OD1	1:F:573:MET:N	2.46	0.46
1:G:558:THR:HG23	1:G:610:TYR:CZ	2.50	0.46
1:G:608:ASP:OD1	1:G:609:ILE:N	2.48	0.46
1:L:299:PRO:HD3	1:L:635:PHE:CE2	2.50	0.46
1:M:277:ARG:NH2	1:M:279:HIS:HE1	2.12	0.46
1:M:414:HIS:HB2	1:M:635:PHE:CE1	2.50	0.46
1:N:240:THR:O	1:N:360:VAL:HG23	2.15	0.46
1:N:299:PRO:HD3	1:N:635:PHE:CE2	2.50	0.46
1:N:428:ASN:HB3	1:P:349:GLN:OE1	2.16	0.46
1:N:691:ARG:HD3	1:N:695:GLU:HG3	1.97	0.46
1:P:288:GLN:NE2	1:P:698:PHE:O	2.47	0.46
1:P:380:THR:H	1:P:383:ASN:ND2	2.13	0.46
1:P:414:HIS:HB2	1:P:635:PHE:CE1	2.50	0.46
1:P:558:THR:HG23	1:P:610:TYR:CZ	2.50	0.46
1:Q:380:THR:H	1:Q:383:ASN:ND2	2.13	0.46
1:Q:691:ARG:HD3	1:Q:695:GLU:HG3	1.97	0.46
1:R:558:THR:HG23	1:R:610:TYR:CZ	2.50	0.46
1:S:233:VAL:HG13	1:S:682:TRP:HB2	1.96	0.46
1:S:240:THR:O	1:S:360:VAL:HG23	2.15	0.46
1:T:349:GLN:HE21	1:l:467:TYR:HE1	1.64	0.46
1:V:433:GLN:HG2	1:e:348:GLY:O	2.15	0.46
1:V:558:THR:HG23	1:V:610:TYR:CZ	2.50	0.46
1:X:348:GLY:O	1:e:433:GLN:HG2	2.14	0.46
1:X:558:THR:HG23	1:X:610:TYR:CZ	2.50	0.46
1:Y:240:THR:O	1:Y:360:VAL:HG23	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:558:THR:HG23	1:Y:610:TYR:CZ	2.50	0.46
1:a:608:ASP:OD1	1:a:609:ILE:N	2.48	0.46
1:d:558:THR:HG23	1:d:610:TYR:CZ	2.50	0.46
1:d:608:ASP:OD1	1:d:609:ILE:N	2.48	0.46
1:e:277:ARG:NH2	1:e:279:HIS:HE1	2.12	0.46
1:f:558:THR:HG23	1:f:610:TYR:CZ	2.50	0.46
1:i:691:ARG:HD3	1:i:695:GLU:HG3	1.97	0.46
1:j:414:HIS:HB2	1:j:635:PHE:CE1	2.50	0.46
1:k:247:ASN:OD1	1:k:365:GLN:NE2	2.48	0.46
1:n:240:THR:O	1:n:360:VAL:HG23	2.15	0.46
1:o:281:HIS:HE1	1:o:678:VAL:HG11	1.79	0.46
1:r:240:THR:O	1:r:360:VAL:HG23	2.15	0.46
1:t:299:PRO:HD3	1:t:635:PHE:CE2	2.50	0.46
1:t:608:ASP:OD1	1:t:609:ILE:N	2.48	0.46
1:w:240:THR:O	1:w:360:VAL:HG23	2.15	0.46
1:x:281:HIS:HE1	1:x:678:VAL:HG11	1.79	0.46
1:y:558:THR:HG23	1:y:610:TYR:CZ	2.50	0.46
1:1:558:THR:HG23	1:1:610:TYR:CZ	2.50	0.46
1:2:380:THR:H	1:2:383:ASN:ND2	2.13	0.46
1:5:247:ASN:OD1	1:5:365:GLN:NE2	2.48	0.46
1:5:299:PRO:HD3	1:5:635:PHE:CE2	2.50	0.46
1:5:458:LYS:NZ	1:6:350:GLU:OE2	2.44	0.46
1:7:240:THR:O	1:7:360:VAL:HG23	2.15	0.46
1:8:558:THR:HG23	1:8:610:TYR:CZ	2.50	0.46
1:A:348:GLY:O	1:I:433:GLN:HG2	2.15	0.46
1:D:233:VAL:HG13	1:D:682:TRP:HB2	1.96	0.46
1:E:299:PRO:HD3	1:E:635:PHE:CE2	2.50	0.46
1:F:240:THR:O	1:F:360:VAL:HG23	2.15	0.46
1:G:299:PRO:HD3	1:G:635:PHE:CE2	2.50	0.46
1:H:299:PRO:HD3	1:H:635:PHE:CE2	2.50	0.46
1:H:608:ASP:OD1	1:H:609:ILE:N	2.48	0.46
1:I:299:PRO:HD3	1:I:635:PHE:CE2	2.50	0.46
1:J:380:THR:H	1:J:383:ASN:ND2	2.13	0.46
1:K:240:THR:O	1:K:360:VAL:HG23	2.15	0.46
1:K:299:PRO:HD3	1:K:635:PHE:CE2	2.50	0.46
1:K:433:GLN:HG2	1:a:348:GLY:O	2.15	0.46
1:M:608:ASP:OD1	1:M:609:ILE:N	2.48	0.46
1:O:433:GLN:HG2	1:m:348:GLY:O	2.15	0.46
1:O:467:TYR:HE1	1:m:349:GLN:HE21	1.64	0.46
1:W:428:ASN:HB3	1:Y:349:GLN:OE1	2.15	0.46
1:Z:467:TYR:HE1	1:4:349:GLN:HE21	1.64	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:558:THR:HG23	1:Z:610:TYR:CZ	2.50	0.46
1:Z:691:ARG:HD3	1:Z:695:GLU:HG3	1.97	0.46
1:b:240:THR:O	1:b:360:VAL:HG23	2.15	0.46
1:d:281:HIS:HE1	1:d:678:VAL:HG11	1.79	0.46
1:d:525:ALA:O	1:d:559:SER:OG	2.18	0.46
1:f:276:ASN:OD1	1:f:615:ILE:N	2.46	0.46
1:f:348:GLY:O	1:g:433:GLN:HG2	2.15	0.46
1:h:277:ARG:NH2	1:h:279:HIS:HE1	2.12	0.46
1:h:414:HIS:HB2	1:h:635:PHE:CE1	2.50	0.46
1:i:428:ASN:HB3	1:j:349:GLN:OE1	2.16	0.46
1:k:414:HIS:HB2	1:k:635:PHE:CE1	2.50	0.46
1:l:288:GLN:NE2	1:l:698:PHE:O	2.47	0.46
1:n:281:HIS:HE1	1:n:678:VAL:HG11	1.79	0.46
1:n:608:ASP:OD1	1:n:609:ILE:N	2.48	0.46
1:o:467:TYR:HE1	1:p:349:GLN:HE21	1.63	0.46
1:p:558:THR:HG23	1:p:610:TYR:CZ	2.50	0.46
1:q:572:ASP:OD1	1:q:573:MET:N	2.46	0.46
1:u:281:HIS:HE1	1:u:678:VAL:HG11	1.79	0.46
1:u:433:GLN:HG2	1:v:348:GLY:O	2.15	0.46
1:x:380:THR:H	1:x:383:ASN:ND2	2.13	0.46
1:z:299:PRO:HD3	1:z:635:PHE:CE2	2.50	0.46
1:1:276:ASN:OD1	1:1:615:ILE:N	2.46	0.46
1:3:348:GLY:O	1:4:433:GLN:HG2	2.15	0.46
1:4:608:ASP:OD1	1:4:609:ILE:N	2.48	0.46
1:6:281:HIS:HE1	1:6:678:VAL:HG11	1.79	0.46
1:8:691:ARG:HD3	1:8:695:GLU:HG3	1.97	0.46
1:B:276:ASN:OD1	1:B:615:ILE:N	2.46	0.46
1:D:414:HIS:HB2	1:D:635:PHE:CE1	2.50	0.46
1:D:428:ASN:HB3	1:N:349:GLN:OE1	2.15	0.46
1:G:240:THR:O	1:G:360:VAL:HG23	2.15	0.46
1:H:240:THR:O	1:H:360:VAL:HG23	2.15	0.46
1:I:240:THR:O	1:I:360:VAL:HG23	2.15	0.46
1:J:281:HIS:HE1	1:J:678:VAL:HG11	1.79	0.46
1:K:348:GLY:O	1:8:433:GLN:HG2	2.15	0.46
1:K:349:GLN:HE21	1:8:467:TYR:HE1	1.64	0.46
1:K:414:HIS:HB2	1:K:635:PHE:CE1	2.50	0.46
1:K:445:GLU:OE1	1:K:445:GLU:N	2.47	0.46
1:K:608:ASP:OD1	1:K:609:ILE:N	2.48	0.46
1:M:623:ASP:OD1	1:b:415:SER:OG	2.28	0.46
1:N:380:THR:H	1:N:383:ASN:ND2	2.13	0.46
1:O:558:THR:HG23	1:O:610:TYR:CZ	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:349:GLN:HE21	1:U:467:TYR:HE1	1.64	0.46
1:S:253:ARG:HH21	1:S:379:GLN:NE2	1.99	0.46
1:S:558:THR:HG23	1:S:610:TYR:CZ	2.50	0.46
1:T:558:THR:HG23	1:T:610:TYR:CZ	2.50	0.46
1:U:240:THR:O	1:U:360:VAL:HG23	2.15	0.46
1:V:288:GLN:NE2	1:V:698:PHE:O	2.47	0.46
1:V:349:GLN:HE21	1:X:467:TYR:HE1	1.63	0.46
1:W:281:HIS:HE1	1:W:678:VAL:HG11	1.79	0.46
1:X:281:HIS:HE1	1:X:678:VAL:HG11	1.79	0.46
1:X:349:GLN:HE21	1:e:467:TYR:HE1	1.63	0.46
1:Z:240:THR:O	1:Z:360:VAL:HG23	2.15	0.46
1:c:348:GLY:O	1:p:433:GLN:HG2	2.15	0.46
1:c:349:GLN:OE1	1:p:428:ASN:HB3	2.15	0.46
1:c:380:THR:H	1:c:383:ASN:ND2	2.13	0.46
1:c:608:ASP:OD1	1:c:609:ILE:N	2.48	0.46
1:f:240:THR:O	1:f:360:VAL:HG23	2.15	0.46
1:h:608:ASP:OD1	1:h:609:ILE:N	2.48	0.46
1:i:349:GLN:OE1	1:k:428:ASN:HB3	2.15	0.46
1:j:288:GLN:NE2	1:j:698:PHE:O	2.47	0.46
1:p:608:ASP:OD1	1:p:609:ILE:N	2.48	0.46
1:r:299:PRO:HD3	1:r:635:PHE:CE2	2.50	0.46
1:s:240:THR:O	1:s:360:VAL:HG23	2.15	0.46
1:s:414:HIS:HB2	1:s:635:PHE:CE1	2.50	0.46
1:t:240:THR:O	1:t:360:VAL:HG23	2.15	0.46
1:u:240:THR:O	1:u:360:VAL:HG23	2.15	0.46
1:u:299:PRO:HD3	1:u:635:PHE:CE2	2.50	0.46
1:2:281:HIS:HE1	1:2:678:VAL:HG11	1.79	0.46
1:2:445:GLU:OE1	1:2:445:GLU:N	2.47	0.46
1:3:299:PRO:HD3	1:3:635:PHE:CE2	2.50	0.46
1:3:349:GLN:OE1	1:4:428:ASN:HB3	2.15	0.46
1:4:240:THR:O	1:4:360:VAL:HG23	2.15	0.46
1:4:299:PRO:HD3	1:4:635:PHE:CE2	2.50	0.46
1:4:414:HIS:HB2	1:4:635:PHE:CE1	2.50	0.46
1:5:240:THR:O	1:5:360:VAL:HG23	2.15	0.46
1:5:276:ASN:OD1	1:5:615:ILE:N	2.46	0.46
1:5:608:ASP:OD1	1:5:609:ILE:N	2.48	0.46
1:6:240:THR:O	1:6:360:VAL:HG23	2.15	0.46
1:7:299:PRO:HD3	1:7:635:PHE:CE2	2.50	0.46
1:7:558:THR:HG23	1:7:610:TYR:CZ	2.50	0.46
1:8:445:GLU:OE1	1:8:445:GLU:N	2.47	0.46
1:B:623:ASP:OD1	1:L:415:SER:OG	2.28	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:428:ASN:HB3	1:b:349:GLN:OE1	2.15	0.46
1:D:240:THR:O	1:D:360:VAL:HG23	2.15	0.46
1:D:299:PRO:HD3	1:D:635:PHE:CE2	2.50	0.46
1:D:691:ARG:HD3	1:D:695:GLU:HG3	1.97	0.46
1:E:349:GLN:HE21	1:F:467:TYR:HE1	1.63	0.46
1:E:608:ASP:OD1	1:E:609:ILE:N	2.48	0.46
1:F:299:PRO:HD3	1:F:635:PHE:CE2	2.50	0.46
1:G:288:GLN:NE2	1:G:698:PHE:O	2.47	0.46
1:K:253:ARG:NH2	1:K:379:GLN:HE22	2.00	0.46
1:K:623:ASP:OD1	1:8:415:SER:OG	2.28	0.46
1:R:572:ASP:OD1	1:R:573:MET:N	2.46	0.46
1:S:299:PRO:HD3	1:S:635:PHE:CE2	2.50	0.46
1:T:299:PRO:HD3	1:T:635:PHE:CE2	2.50	0.46
1:U:414:HIS:HB2	1:U:635:PHE:CE1	2.50	0.46
1:V:428:ASN:HB3	1:e:349:GLN:OE1	2.15	0.46
1:V:608:ASP:OD1	1:V:609:ILE:N	2.48	0.46
1:W:240:THR:O	1:W:360:VAL:HG23	2.15	0.46
1:W:558:THR:HG23	1:W:610:TYR:CZ	2.50	0.46
1:X:240:THR:O	1:X:360:VAL:HG23	2.15	0.46
1:Y:299:PRO:HD3	1:Y:635:PHE:CE2	2.50	0.46
1:Z:299:PRO:HD3	1:Z:635:PHE:CE2	2.50	0.46
1:Z:433:GLN:HG2	1:4:348:GLY:O	2.15	0.46
1:a:299:PRO:HD3	1:a:635:PHE:CE2	2.50	0.46
1:e:380:THR:H	1:e:383:ASN:ND2	2.13	0.46
1:e:608:ASP:OD1	1:e:609:ILE:N	2.48	0.46
1:k:240:THR:O	1:k:360:VAL:HG23	2.15	0.46
1:k:299:PRO:HD3	1:k:635:PHE:CE2	2.50	0.46
1:k:691:ARG:HD3	1:k:695:GLU:HG3	1.97	0.46
1:l:558:THR:HG23	1:l:610:TYR:CZ	2.50	0.46
1:l:691:ARG:HD3	1:l:695:GLU:HG3	1.97	0.46
1:m:299:PRO:HD3	1:m:635:PHE:CE2	2.50	0.46
1:o:240:THR:O	1:o:360:VAL:HG23	2.15	0.46
1:p:288:GLN:NE2	1:p:698:PHE:O	2.47	0.46
1:q:349:GLN:HE21	1:s:467:TYR:HE1	1.64	0.46
1:r:558:THR:HG23	1:r:610:TYR:CZ	2.50	0.46
1:u:467:TYR:HE1	1:v:349:GLN:HE21	1.63	0.46
1:w:299:PRO:HD3	1:w:635:PHE:CE2	2.50	0.46
1:y:240:THR:O	1:y:360:VAL:HG23	2.15	0.46
1:y:299:PRO:HD3	1:y:635:PHE:CE2	2.50	0.46
1:4:445:GLU:OE1	1:4:445:GLU:N	2.47	0.46
1:6:428:ASN:HB3	1:7:349:GLN:OE1	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:608:ASP:OD1	1:7:609:ILE:N	2.48	0.46
1:8:240:THR:O	1:8:360:VAL:HG23	2.15	0.46
1:8:299:PRO:HD3	1:8:635:PHE:CE2	2.50	0.46
1:A:299:PRO:HD3	1:A:635:PHE:CE2	2.50	0.46
1:B:240:THR:O	1:B:360:VAL:HG23	2.15	0.46
1:E:380:THR:H	1:E:383:ASN:ND2	2.13	0.46
1:F:608:ASP:OD1	1:F:609:ILE:N	2.48	0.46
1:H:348:GLY:O	1:Y:433:GLN:HG2	2.16	0.46
1:H:349:GLN:OE1	1:Y:428:ASN:HB3	2.16	0.46
1:I:414:HIS:HB2	1:I:635:PHE:CE1	2.50	0.46
1:J:445:GLU:OE1	1:J:445:GLU:N	2.47	0.46
1:J:467:TYR:HE1	1:L:349:GLN:HE21	1.64	0.46
1:K:428:ASN:HB3	1:a:349:GLN:OE1	2.15	0.46
1:O:349:GLN:HE21	1:n:467:TYR:HE1	1.63	0.46
1:O:380:THR:H	1:O:383:ASN:ND2	2.13	0.46
1:O:691:ARG:HD3	1:O:695:GLU:HG3	1.97	0.46
1:S:433:GLN:HG2	1:U:348:GLY:O	2.15	0.46
1:V:350:GLU:OE2	1:X:458:LYS:NZ	2.44	0.46
1:V:458:LYS:NZ	1:e:350:GLU:OE2	2.44	0.46
1:W:691:ARG:HD3	1:W:695:GLU:HG3	1.97	0.46
1:Z:445:GLU:OE1	1:Z:445:GLU:N	2.47	0.46
1:b:276:ASN:OD1	1:b:615:ILE:N	2.46	0.46
1:c:467:TYR:HE1	1:o:349:GLN:HE21	1.63	0.46
1:f:414:HIS:HB2	1:f:635:PHE:CE1	2.50	0.46
1:h:240:THR:O	1:h:360:VAL:HG23	2.15	0.46
1:i:380:THR:H	1:i:383:ASN:ND2	2.13	0.46
1:m:428:ASN:HB3	1:n:349:GLN:OE1	2.15	0.46
1:q:240:THR:O	1:q:360:VAL:HG23	2.15	0.46
1:t:349:GLN:OE1	1:v:428:ASN:HB3	2.15	0.46
1:v:691:ARG:HD3	1:v:695:GLU:HG3	1.97	0.46
1:w:349:GLN:HE21	1:y:467:TYR:HE1	1.63	0.46
1:w:691:ARG:HD3	1:w:695:GLU:HG3	1.97	0.46
1:x:299:PRO:HD3	1:x:635:PHE:CE2	2.50	0.46
1:z:240:THR:O	1:z:360:VAL:HG23	2.15	0.46
1:z:380:THR:H	1:z:383:ASN:ND2	2.13	0.46
1:1:467:TYR:HE1	1:2:349:GLN:HE21	1.63	0.46
1:5:349:GLN:OE1	1:7:428:ASN:HB3	2.16	0.46
1:6:380:THR:H	1:6:383:ASN:ND2	2.13	0.46
1:6:558:THR:HG23	1:6:610:TYR:CZ	2.50	0.46
1:A:428:ASN:HB3	1:G:349:GLN:OE1	2.15	0.46
1:A:691:ARG:HD3	1:A:695:GLU:HG3	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:467:TYR:HE1	1:J:349:GLN:HE21	1.63	0.46
1:E:691:ARG:HD3	1:E:695:GLU:HG3	1.97	0.46
1:G:467:TYR:HE1	1:I:349:GLN:HE21	1.64	0.46
1:H:276:ASN:OD1	1:H:615:ILE:N	2.46	0.46
1:H:691:ARG:HD3	1:H:695:GLU:HG3	1.97	0.46
1:I:445:GLU:OE1	1:I:445:GLU:N	2.47	0.46
1:M:240:THR:O	1:M:360:VAL:HG23	2.15	0.46
1:M:299:PRO:HD3	1:M:635:PHE:CE2	2.50	0.46
1:M:349:GLN:OE1	1:b:428:ASN:HB3	2.15	0.46
1:Q:299:PRO:HD3	1:Q:635:PHE:CE2	2.50	0.46
1:S:572:ASP:OD1	1:S:573:MET:N	2.46	0.46
1:V:414:HIS:HB2	1:V:635:PHE:CE1	2.50	0.46
1:Y:608:ASP:OD1	1:Y:609:ILE:N	2.48	0.46
1:d:467:TYR:HE1	1:l:349:GLN:HE21	1.63	0.46
1:f:349:GLN:OE1	1:g:428:ASN:HB3	2.15	0.46
1:g:240:THR:O	1:g:360:VAL:HG23	2.15	0.46
1:l:380:THR:H	1:l:383:ASN:ND2	2.13	0.46
1:r:433:GLN:HG2	1:s:348:GLY:O	2.15	0.46
1:t:288:GLN:NE2	1:t:698:PHE:O	2.47	0.46
1:t:348:GLY:O	1:v:433:GLN:HG2	2.14	0.46
1:t:349:GLN:HE21	1:v:467:TYR:HE1	1.63	0.46
1:u:414:HIS:HB2	1:u:635:PHE:CE1	2.50	0.46
1:v:299:PRO:HD3	1:v:635:PHE:CE2	2.50	0.46
1:w:380:THR:H	1:w:383:ASN:ND2	2.13	0.46
1:w:558:THR:HG23	1:w:610:TYR:CZ	2.50	0.46
1:w:608:ASP:OD1	1:w:609:ILE:N	2.48	0.46
1:y:608:ASP:OD1	1:y:609:ILE:N	2.48	0.46
1:z:415:SER:OG	1:1:623:ASP:OD1	2.28	0.46
1:5:691:ARG:HD3	1:5:695:GLU:HG3	1.97	0.46
1:6:691:ARG:HD3	1:6:695:GLU:HG3	1.97	0.46
1:C:608:ASP:OD1	1:C:609:ILE:N	2.48	0.46
1:D:348:GLY:O	1:P:433:GLN:HG2	2.15	0.46
1:E:558:THR:HG23	1:E:610:TYR:CZ	2.50	0.46
1:K:691:ARG:HD3	1:K:695:GLU:HG3	1.97	0.46
1:L:240:THR:O	1:L:360:VAL:HG23	2.15	0.46
1:L:380:THR:H	1:L:383:ASN:ND2	2.13	0.46
1:N:608:ASP:OD1	1:N:609:ILE:N	2.48	0.46
1:R:240:THR:O	1:R:360:VAL:HG23	2.15	0.46
1:T:288:GLN:NE2	1:T:698:PHE:O	2.47	0.46
1:T:428:ASN:HB3	1:d:349:GLN:OE1	2.15	0.46
1:W:380:THR:H	1:W:383:ASN:ND2	2.13	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:414:HIS:HB2	1:b:635:PHE:CE1	2.50	0.46
1:f:299:PRO:HD3	1:f:635:PHE:CE2	2.50	0.46
1:f:415:SER:OG	1:h:623:ASP:OD1	2.28	0.46
1:f:428:ASN:HB3	1:h:349:GLN:OE1	2.15	0.46
1:g:608:ASP:OD1	1:g:609:ILE:N	2.48	0.46
1:h:299:PRO:HD3	1:h:635:PHE:CE2	2.50	0.46
1:o:608:ASP:OD1	1:o:609:ILE:N	2.48	0.46
1:q:608:ASP:OD1	1:q:609:ILE:N	2.48	0.46
1:r:572:ASP:OD1	1:r:573:MET:N	2.46	0.46
1:t:467:TYR:HE1	1:u:349:GLN:HE21	1.64	0.46
1:u:445:GLU:OE1	1:u:445:GLU:N	2.47	0.46
1:u:608:ASP:OD1	1:u:609:ILE:N	2.48	0.46
1:z:349:GLN:HE21	1:2:467:TYR:HE1	1.64	0.46
1:1:240:THR:O	1:1:360:VAL:HG23	2.15	0.46
1:4:691:ARG:HD3	1:4:695:GLU:HG3	1.97	0.46
1:5:348:GLY:O	1:7:433:GLN:HG2	2.16	0.46
1:A:467:TYR:HE1	1:G:349:GLN:HE21	1.63	0.46
1:C:240:THR:O	1:C:360:VAL:HG23	2.15	0.46
1:H:380:THR:H	1:H:383:ASN:ND2	2.13	0.46
1:I:608:ASP:OD1	1:I:609:ILE:N	2.48	0.46
1:R:380:THR:H	1:R:383:ASN:ND2	2.13	0.46
1:R:414:HIS:HB2	1:R:635:PHE:CE1	2.50	0.46
1:R:608:ASP:OD1	1:R:609:ILE:N	2.48	0.46
1:T:608:ASP:OD1	1:T:609:ILE:N	2.48	0.46
1:V:240:THR:O	1:V:360:VAL:HG23	2.15	0.46
1:X:608:ASP:OD1	1:X:609:ILE:N	2.48	0.46
1:b:299:PRO:HD3	1:b:635:PHE:CE2	2.50	0.46
1:o:253:ARG:NH2	1:o:379:GLN:HE22	2.00	0.46
1:p:240:THR:O	1:p:360:VAL:HG23	2.15	0.46
1:p:414:HIS:HB2	1:p:635:PHE:CE1	2.50	0.46
1:r:253:ARG:HH21	1:r:379:GLN:NE2	1.99	0.46
1:x:608:ASP:OD1	1:x:609:ILE:N	2.48	0.46
1:5:253:ARG:NH2	1:5:379:GLN:HE22	2.00	0.46
1:A:349:GLN:HE21	1:I:467:TYR:HE1	1.64	0.46
1:A:433:GLN:HG2	1:G:348:GLY:O	2.15	0.46
1:G:308:ASN:HB2	1:G:675:GLN:HG2	1.98	0.46
1:N:452:ALA:HB2	1:P:491:LYS:HE2	1.98	0.46
1:Q:608:ASP:OD1	1:Q:609:ILE:N	2.48	0.46
1:T:445:GLU:OE1	1:T:445:GLU:N	2.47	0.46
1:U:288:GLN:NE2	1:U:698:PHE:O	2.47	0.46
1:d:380:THR:H	1:d:383:ASN:ND2	2.13	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:608:ASP:OD1	1:i:609:ILE:N	2.48	0.46
1:l:541:GLY:HA3	1:l:554:ASN:O	2.16	0.46
1:m:288:GLN:NE2	1:m:698:PHE:O	2.47	0.46
1:m:445:GLU:OE1	1:m:445:GLU:N	2.47	0.46
1:m:467:TYR:HE1	1:n:349:GLN:HE21	1.63	0.46
1:m:608:ASP:OD1	1:m:609:ILE:N	2.48	0.46
1:n:380:THR:H	1:n:383:ASN:ND2	2.13	0.46
1:q:414:HIS:HB2	1:q:635:PHE:CE1	2.50	0.46
1:t:308:ASN:HB2	1:t:675:GLN:HG2	1.98	0.46
1:v:240:THR:O	1:v:360:VAL:HG23	2.15	0.46
1:1:253:ARG:NH2	1:1:379:GLN:HE22	2.00	0.46
1:1:608:ASP:OD1	1:1:609:ILE:N	2.48	0.46
1:5:380:THR:H	1:5:383:ASN:ND2	2.13	0.46
1:8:380:THR:H	1:8:383:ASN:ND2	2.13	0.46
1:G:445:GLU:OE1	1:G:445:GLU:N	2.47	0.45
1:K:467:TYR:HE1	1:a:349:GLN:HE21	1.63	0.45
1:N:445:GLU:OE1	1:N:445:GLU:N	2.47	0.45
1:O:242:VAL:HB	1:P:652:PRO:HG2	1.99	0.45
1:O:541:GLY:HA3	1:O:554:ASN:O	2.17	0.45
1:R:299:PRO:HD3	1:R:635:PHE:CE2	2.50	0.45
1:R:691:ARG:HD3	1:R:695:GLU:HG3	1.97	0.45
1:S:691:ARG:HD3	1:S:695:GLU:HG3	1.97	0.45
1:Y:294:ASN:OD1	1:Y:686:LYS:HD3	2.16	0.45
1:Z:294:ASN:OD1	1:Z:686:LYS:HD3	2.17	0.45
1:Z:380:THR:H	1:Z:383:ASN:ND2	2.13	0.45
1:c:308:ASN:HB2	1:c:675:GLN:HG2	1.99	0.45
1:c:349:GLN:HE21	1:p:467:TYR:HE1	1.63	0.45
1:e:308:ASN:HB2	1:e:675:GLN:HG2	1.99	0.45
1:k:572:ASP:OD1	1:k:573:MET:N	2.46	0.45
1:n:572:ASP:OD1	1:n:573:MET:N	2.46	0.45
1:o:276:ASN:OD1	1:o:615:ILE:N	2.46	0.45
1:p:242:VAL:HB	1:q:652:PRO:HG2	1.99	0.45
1:q:380:THR:H	1:q:383:ASN:ND2	2.13	0.45
1:q:691:ARG:HD3	1:q:695:GLU:HG3	1.97	0.45
1:r:691:ARG:HD3	1:r:695:GLU:HG3	1.97	0.45
1:s:288:GLN:NE2	1:s:698:PHE:O	2.47	0.45
1:s:380:THR:H	1:s:383:ASN:ND2	2.13	0.45
1:t:445:GLU:OE1	1:t:445:GLU:N	2.47	0.45
1:y:294:ASN:OD1	1:y:686:LYS:HD3	2.16	0.45
1:z:294:ASN:OD1	1:z:686:LYS:HD3	2.17	0.45
1:5:415:SER:OG	1:6:623:ASP:OD1	2.28	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:294:ASN:OD1	1:7:686:LYS:HD3	2.16	0.45
1:8:294:ASN:OD1	1:8:686:LYS:HD3	2.17	0.45
1:B:308:ASN:HB2	1:B:675:GLN:HG2	1.99	0.45
1:B:608:ASP:OD1	1:B:609:ILE:N	2.48	0.45
1:C:652:PRO:HG2	1:D:242:VAL:HB	1.99	0.45
1:D:572:ASP:OD1	1:D:573:MET:N	2.46	0.45
1:F:294:ASN:OD1	1:F:686:LYS:HD3	2.16	0.45
1:F:541:GLY:HA3	1:F:554:ASN:O	2.17	0.45
1:H:253:ARG:NH2	1:H:379:GLN:HE22	2.00	0.45
1:H:467:TYR:HE1	1:W:349:GLN:HE21	1.64	0.45
1:L:294:ASN:OD1	1:L:686:LYS:HD3	2.17	0.45
1:R:652:PRO:HG2	1:V:242:VAL:HB	1.99	0.45
1:U:380:THR:H	1:U:383:ASN:ND2	2.13	0.45
1:V:467:TYR:HE1	1:e:349:GLN:HE21	1.63	0.45
1:c:541:GLY:HA3	1:c:554:ASN:O	2.17	0.45
1:e:541:GLY:HA3	1:e:554:ASN:O	2.17	0.45
1:f:294:ASN:OD1	1:f:686:LYS:HD3	2.17	0.45
1:g:652:PRO:HG2	1:k:242:VAL:HB	1.99	0.45
1:h:294:ASN:OD1	1:h:686:LYS:HD3	2.16	0.45
1:i:445:GLU:OE1	1:i:445:GLU:N	2.47	0.45
1:l:276:ASN:OD1	1:l:615:ILE:N	2.46	0.45
1:q:299:PRO:HD3	1:q:635:PHE:CE2	2.50	0.45
1:1:541:GLY:HA3	1:1:554:ASN:O	2.16	0.45
1:3:349:GLN:HE21	1:4:467:TYR:HE1	1.63	0.45
1:A:240:THR:O	1:A:360:VAL:HG23	2.15	0.45
1:A:652:PRO:HG2	1:B:242:VAL:HB	1.98	0.45
1:B:541:GLY:HA3	1:B:554:ASN:O	2.16	0.45
1:E:308:ASN:HB2	1:E:675:GLN:HG2	1.98	0.45
1:F:242:VAL:HB	1:G:652:PRO:HG2	1.99	0.45
1:G:242:VAL:HB	1:W:652:PRO:HG2	1.99	0.45
1:G:294:ASN:OD1	1:G:686:LYS:HD3	2.16	0.45
1:H:308:ASN:HB2	1:H:675:GLN:HG2	1.99	0.45
1:H:658:THR:HG22	1:H:659:PHE:N	2.32	0.45
1:I:308:ASN:HB2	1:I:675:GLN:HG2	1.98	0.45
1:J:608:ASP:OD1	1:J:609:ILE:N	2.48	0.45
1:N:576:GLN:HB2	1:P:506:HIS:CE1	2.52	0.45
1:O:276:ASN:OD1	1:O:615:ILE:N	2.46	0.45
1:R:308:ASN:HB2	1:R:675:GLN:HG2	1.99	0.45
1:V:652:PRO:HG2	1:W:242:VAL:HB	1.99	0.45
1:V:691:ARG:HD3	1:V:695:GLU:HG3	1.97	0.45
1:X:253:ARG:NH2	1:X:379:GLN:HE22	2.00	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:658:THR:HG22	1:X:659:PHE:N	2.32	0.45
1:b:294:ASN:OD1	1:b:686:LYS:HD3	2.17	0.45
1:b:541:GLY:HA3	1:b:554:ASN:O	2.17	0.45
1:d:572:ASP:OD1	1:d:573:MET:N	2.46	0.45
1:f:541:GLY:HA3	1:f:554:ASN:O	2.17	0.45
1:g:253:ARG:NH2	1:g:379:GLN:HE22	2.00	0.45
1:k:294:ASN:OD1	1:k:686:LYS:HD3	2.16	0.45
1:n:652:PRO:HG2	1:r:242:VAL:HB	1.99	0.45
1:n:658:THR:HG22	1:n:659:PHE:N	2.32	0.45
1:o:658:THR:HG22	1:o:659:PHE:N	2.32	0.45
1:p:276:ASN:OD1	1:p:615:ILE:N	2.46	0.45
1:p:652:PRO:HG2	1:6:242:VAL:HB	1.99	0.45
1:p:691:ARG:HD3	1:p:695:GLU:HG3	1.97	0.45
1:q:308:ASN:HB2	1:q:675:GLN:HG2	1.99	0.45
1:u:308:ASN:HB2	1:u:675:GLN:HG2	1.98	0.45
1:w:308:ASN:HB2	1:w:675:GLN:HG2	1.98	0.45
1:x:658:THR:HG22	1:x:659:PHE:N	2.32	0.45
1:y:541:GLY:HA3	1:y:554:ASN:O	2.17	0.45
1:1:308:ASN:HB2	1:1:675:GLN:HG2	1.99	0.45
1:5:308:ASN:HB2	1:5:675:GLN:HG2	1.99	0.45
1:5:467:TYR:HE1	1:6:349:GLN:HE21	1.64	0.45
1:5:658:THR:HG22	1:5:659:PHE:N	2.32	0.45
1:B:652:PRO:HG2	1:C:242:VAL:HB	1.99	0.45
1:D:294:ASN:OD1	1:D:686:LYS:HD3	2.16	0.45
1:G:541:GLY:HA3	1:G:554:ASN:O	2.17	0.45
1:M:294:ASN:OD1	1:M:686:LYS:HD3	2.17	0.45
1:M:308:ASN:HB2	1:M:675:GLN:HG2	1.99	0.45
1:P:658:THR:HG22	1:P:659:PHE:N	2.32	0.45
1:S:242:VAL:HB	1:d:652:PRO:HG2	1.99	0.45
1:T:467:TYR:HE1	1:d:349:GLN:HE21	1.63	0.45
1:W:294:ASN:OD1	1:W:686:LYS:HD3	2.16	0.45
1:W:467:TYR:HE1	1:Y:349:GLN:HE21	1.63	0.45
1:X:242:VAL:HB	1:Y:652:PRO:HG2	1.97	0.45
1:X:276:ASN:OD1	1:X:615:ILE:N	2.46	0.45
1:X:541:GLY:HA3	1:X:554:ASN:O	2.17	0.45
1:a:308:ASN:HB2	1:a:675:GLN:HG2	1.98	0.45
1:h:308:ASN:HB2	1:h:675:GLN:HG2	1.98	0.45
1:h:541:GLY:HA3	1:h:554:ASN:O	2.17	0.45
1:j:658:THR:HG22	1:j:659:PHE:N	2.32	0.45
1:o:242:VAL:HB	1:7:652:PRO:HG2	1.97	0.45
1:t:242:VAL:HB	1:6:652:PRO:HG2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:294:ASN:OD1	1:t:686:LYS:HD3	2.16	0.45
1:t:652:PRO:HG2	1:y:242:VAL:HB	1.99	0.45
1:u:541:GLY:HA3	1:u:554:ASN:O	2.16	0.45
1:v:242:VAL:HB	1:w:652:PRO:HG2	1.99	0.45
1:v:294:ASN:OD1	1:v:686:LYS:HD3	2.16	0.45
1:v:541:GLY:HA3	1:v:554:ASN:O	2.17	0.45
1:x:240:THR:O	1:x:360:VAL:HG23	2.15	0.45
1:x:467:TYR:HE1	1:y:349:GLN:HE21	1.63	0.45
1:3:242:VAL:HB	1:8:652:PRO:HG2	1.99	0.45
1:5:491:LYS:HE2	1:7:452:ALA:HB2	1.98	0.45
1:5:652:PRO:HG2	1:8:242:VAL:HB	1.99	0.45
1:6:433:GLN:HG2	1:7:348:GLY:O	2.15	0.45
1:6:467:TYR:HE1	1:7:349:GLN:HE21	1.63	0.45
1:8:308:ASN:HB2	1:8:675:GLN:HG2	1.98	0.45
1:8:608:ASP:OD1	1:8:609:ILE:N	2.48	0.45
1:A:308:ASN:HB2	1:A:675:GLN:HG2	1.98	0.45
1:A:541:GLY:HA3	1:A:554:ASN:O	2.17	0.45
1:B:253:ARG:NH2	1:B:379:GLN:HE22	2.00	0.45
1:B:691:ARG:HD3	1:B:695:GLU:HG3	1.97	0.45
1:D:253:ARG:NH2	1:D:379:GLN:HE22	2.00	0.45
1:D:467:TYR:HE1	1:N:349:GLN:HE21	1.63	0.45
1:F:349:GLN:HE21	1:Q:467:TYR:HE1	1.63	0.45
1:F:658:THR:HG22	1:F:659:PHE:N	2.32	0.45
1:H:652:PRO:HG2	1:Z:242:VAL:HB	1.99	0.45
1:I:294:ASN:OD1	1:I:686:LYS:HD3	2.16	0.45
1:L:288:GLN:NE2	1:L:698:PHE:O	2.47	0.45
1:M:541:GLY:HA3	1:M:554:ASN:O	2.17	0.45
1:N:433:GLN:HG2	1:P:348:GLY:O	2.16	0.45
1:Q:240:THR:O	1:Q:360:VAL:HG23	2.15	0.45
1:Q:658:THR:HG22	1:Q:659:PHE:N	2.32	0.45
1:T:658:THR:HG22	1:T:659:PHE:N	2.32	0.45
1:U:294:ASN:OD1	1:U:686:LYS:HD3	2.17	0.45
1:V:276:ASN:OD1	1:V:615:ILE:N	2.46	0.45
1:V:308:ASN:HB2	1:V:675:GLN:HG2	1.99	0.45
1:W:433:GLN:HG2	1:Y:348:GLY:O	2.15	0.45
1:Y:276:ASN:OD1	1:Y:615:ILE:N	2.46	0.45
1:Z:308:ASN:HB2	1:Z:675:GLN:HG2	1.98	0.45
1:Z:608:ASP:OD1	1:Z:609:ILE:N	2.48	0.45
1:Z:652:PRO:HG2	1:a:242:VAL:HB	1.99	0.45
1:a:691:ARG:HD3	1:a:695:GLU:HG3	1.97	0.45
1:b:658:THR:HG22	1:b:659:PHE:N	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:658:THR:HG22	1:d:659:PHE:N	2.32	0.45
1:e:294:ASN:OD1	1:e:686:LYS:HD3	2.17	0.45
1:e:299:PRO:HD3	1:e:635:PHE:CE2	2.50	0.45
1:f:658:THR:HG22	1:f:659:PHE:N	2.32	0.45
1:g:242:VAL:HB	1:l:652:PRO:HG2	1.99	0.45
1:g:308:ASN:HB2	1:g:675:GLN:HG2	1.99	0.45
1:m:294:ASN:OD1	1:m:686:LYS:HD3	2.16	0.45
1:o:541:GLY:HA3	1:o:554:ASN:O	2.17	0.45
1:p:308:ASN:HB2	1:p:675:GLN:HG2	1.99	0.45
1:s:276:ASN:OD1	1:s:615:ILE:N	2.46	0.45
1:t:541:GLY:HA3	1:t:554:ASN:O	2.17	0.45
1:v:652:PRO:HG2	1:l:242:VAL:HB	1.99	0.45
1:w:467:TYR:HE1	1:x:349:GLN:HE21	1.64	0.45
1:z:308:ASN:HB2	1:z:675:GLN:HG2	1.99	0.45
1:1:691:ARG:HD3	1:1:695:GLU:HG3	1.97	0.45
1:2:288:GLN:NE2	1:2:698:PHE:O	2.47	0.45
1:2:294:ASN:OD1	1:2:686:LYS:HD3	2.16	0.45
1:2:608:ASP:OD1	1:2:609:ILE:N	2.48	0.45
1:3:308:ASN:HB2	1:3:675:GLN:HG2	1.98	0.45
1:3:691:ARG:HD3	1:3:695:GLU:HG3	1.97	0.45
1:6:294:ASN:OD1	1:6:686:LYS:HD3	2.16	0.45
1:7:276:ASN:OD1	1:7:615:ILE:N	2.46	0.45
1:A:242:VAL:HB	1:E:652:PRO:HG2	1.99	0.45
1:A:294:ASN:OD1	1:A:686:LYS:HD3	2.16	0.45
1:C:308:ASN:HB2	1:C:675:GLN:HG2	1.99	0.45
1:D:349:GLN:HE21	1:P:467:TYR:HE1	1.64	0.45
1:E:253:ARG:NH2	1:E:379:GLN:HE22	2.00	0.45
1:E:467:TYR:HE1	1:Q:349:GLN:HE21	1.64	0.45
1:H:491:LYS:HE2	1:Y:452:ALA:HB2	1.98	0.45
1:H:541:GLY:HA3	1:H:554:ASN:O	2.17	0.45
1:I:288:GLN:NE2	1:I:698:PHE:O	2.47	0.45
1:I:541:GLY:HA3	1:I:554:ASN:O	2.17	0.45
1:J:288:GLN:NE2	1:J:698:PHE:O	2.47	0.45
1:J:294:ASN:OD1	1:J:686:LYS:HD3	2.16	0.45
1:J:541:GLY:HA3	1:J:554:ASN:O	2.16	0.45
1:J:658:THR:HG22	1:J:659:PHE:N	2.32	0.45
1:K:541:GLY:HA3	1:K:554:ASN:O	2.17	0.45
1:L:541:GLY:HA3	1:L:554:ASN:O	2.17	0.45
1:L:658:THR:HG22	1:L:659:PHE:N	2.32	0.45
1:O:294:ASN:OD1	1:O:686:LYS:HD3	2.17	0.45
1:P:242:VAL:HB	1:Q:652:PRO:HG2	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:467:TYR:HE1	1:U:349:GLN:HE21	1.64	0.45
1:S:541:GLY:HA3	1:S:554:ASN:O	2.16	0.45
1:T:294:ASN:OD1	1:T:686:LYS:HD3	2.17	0.45
1:W:541:GLY:HA3	1:W:554:ASN:O	2.17	0.45
1:X:652:PRO:HG2	1:f:242:VAL:HB	1.99	0.45
1:b:242:VAL:HB	1:o:652:PRO:HG2	1.99	0.45
1:c:294:ASN:OD1	1:c:686:LYS:HD3	2.17	0.45
1:c:299:PRO:HD3	1:c:635:PHE:CE2	2.50	0.45
1:d:253:ARG:NH2	1:d:379:GLN:HE22	2.00	0.45
1:h:658:THR:HG22	1:h:659:PHE:N	2.32	0.45
1:i:349:GLN:HE21	1:k:467:TYR:HE1	1.63	0.45
1:j:299:PRO:HD3	1:j:635:PHE:CE2	2.50	0.45
1:j:433:GLN:HG2	1:k:348:GLY:O	2.15	0.45
1:j:467:TYR:HE1	1:k:349:GLN:HE21	1.63	0.45
1:m:658:THR:HG22	1:m:659:PHE:N	2.32	0.45
1:r:541:GLY:HA3	1:r:554:ASN:O	2.16	0.45
1:s:294:ASN:OD1	1:s:686:LYS:HD3	2.17	0.45
1:u:294:ASN:OD1	1:u:686:LYS:HD3	2.16	0.45
1:v:308:ASN:HB2	1:v:675:GLN:HG2	1.99	0.45
1:y:658:THR:HG22	1:y:659:PHE:N	2.32	0.45
1:2:276:ASN:OD1	1:2:615:ILE:N	2.46	0.45
1:2:658:THR:HG22	1:2:659:PHE:N	2.32	0.45
1:4:541:GLY:HA3	1:4:554:ASN:O	2.17	0.45
1:4:658:THR:HG22	1:4:659:PHE:N	2.32	0.45
1:5:541:GLY:HA3	1:5:554:ASN:O	2.17	0.45
1:6:308:ASN:HB2	1:6:675:GLN:HG2	1.99	0.45
1:8:541:GLY:HA3	1:8:554:ASN:O	2.17	0.45
1:C:658:THR:HG22	1:C:659:PHE:N	2.32	0.45
1:D:415:SER:OG	1:N:623:ASP:OD1	2.28	0.45
1:E:623:ASP:OD1	1:F:415:SER:OG	2.28	0.45
1:I:242:VAL:HB	1:J:652:PRO:HG2	1.99	0.45
1:J:276:ASN:OD1	1:J:615:ILE:N	2.46	0.45
1:K:330:THR:HG22	1:K:397:ARG:HG3	1.99	0.45
1:K:658:THR:HG22	1:K:659:PHE:N	2.32	0.45
1:L:308:ASN:HB2	1:L:675:GLN:HG2	1.99	0.45
1:M:349:GLN:HE21	1:b:467:TYR:HE1	1.63	0.45
1:M:658:THR:HG22	1:M:659:PHE:N	2.32	0.45
1:O:435:LEU:HD13	1:O:468:ARG:HG3	1.99	0.45
1:P:299:PRO:HD3	1:P:635:PHE:CE2	2.50	0.45
1:Q:227:THR:HG23	1:Q:227:THR:O	2.17	0.45
1:R:294:ASN:OD1	1:R:686:LYS:HD3	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:294:ASN:OD1	1:S:686:LYS:HD3	2.16	0.45
1:T:541:GLY:HA3	1:T:554:ASN:O	2.16	0.45
1:W:308:ASN:HB2	1:W:675:GLN:HG2	1.99	0.45
1:W:658:THR:HG22	1:W:659:PHE:N	2.32	0.45
1:Y:658:THR:HG22	1:Y:659:PHE:N	2.32	0.45
1:Z:541:GLY:HA3	1:Z:554:ASN:O	2.17	0.45
1:g:294:ASN:OD1	1:g:686:LYS:HD3	2.16	0.45
1:g:445:GLU:OE1	1:g:445:GLU:N	2.47	0.45
1:g:541:GLY:HA3	1:g:554:ASN:O	2.17	0.45
1:i:491:LYS:HE2	1:k:452:ALA:HB2	1.99	0.45
1:j:435:LEU:HD13	1:j:468:ARG:HG3	1.99	0.45
1:l:435:LEU:HD13	1:l:468:ARG:HG3	1.99	0.45
1:r:467:TYR:HE1	1:s:349:GLN:HE21	1.64	0.45
1:s:658:THR:HG22	1:s:659:PHE:N	2.32	0.45
1:x:227:THR:HG23	1:x:227:THR:O	2.17	0.45
1:z:288:GLN:NE2	1:z:698:PHE:O	2.47	0.45
1:z:658:THR:HG22	1:z:659:PHE:N	2.32	0.45
1:4:308:ASN:HB2	1:4:675:GLN:HG2	1.98	0.45
1:4:330:THR:HG22	1:4:397:ARG:HG3	1.99	0.45
1:6:541:GLY:HA3	1:6:554:ASN:O	2.17	0.45
1:6:658:THR:HG22	1:6:659:PHE:N	2.32	0.45
1:A:330:THR:HG22	1:A:397:ARG:HG3	1.99	0.45
1:C:253:ARG:NH2	1:C:379:GLN:HE22	2.00	0.45
1:C:294:ASN:OD1	1:C:686:LYS:HD3	2.16	0.45
1:C:541:GLY:HA3	1:C:554:ASN:O	2.17	0.45
1:E:541:GLY:HA3	1:E:554:ASN:O	2.17	0.45
1:F:464:PHE:HA	1:F:467:TYR:CD2	2.52	0.45
1:G:464:PHE:HA	1:G:467:TYR:CD2	2.52	0.45
1:H:435:LEU:HD13	1:H:468:ARG:HG3	1.99	0.45
1:I:658:THR:HG22	1:I:659:PHE:N	2.32	0.45
1:K:308:ASN:HB2	1:K:675:GLN:HG2	1.98	0.45
1:R:330:THR:HG22	1:R:397:ARG:HG3	1.99	0.45
1:U:276:ASN:OD1	1:U:615:ILE:N	2.46	0.45
1:U:541:GLY:HA3	1:U:554:ASN:O	2.17	0.45
1:U:658:THR:HG22	1:U:659:PHE:N	2.32	0.45
1:X:714:THR:O	1:Y:252:LEU:HD22	2.17	0.45
1:Z:658:THR:HG22	1:Z:659:PHE:N	2.32	0.45
1:a:276:ASN:OD1	1:a:615:ILE:N	2.46	0.45
1:c:464:PHE:HA	1:c:467:TYR:CD2	2.52	0.45
1:c:658:THR:HG22	1:c:659:PHE:N	2.32	0.45
1:e:464:PHE:HA	1:e:467:TYR:CD2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:484:LYS:HE2	1:e:557:PHE:HE2	1.82	0.45
1:e:658:THR:HG22	1:e:659:PHE:N	2.32	0.45
1:f:467:TYR:HE1	1:h:349:GLN:HE21	1.63	0.45
1:g:299:PRO:HD3	1:g:635:PHE:CE2	2.50	0.45
1:g:349:GLN:HE21	1:h:467:TYR:HE1	1.63	0.45
1:g:658:THR:HG22	1:g:659:PHE:N	2.32	0.45
1:i:464:PHE:HA	1:i:467:TYR:CD2	2.52	0.45
1:l:294:ASN:OD1	1:l:686:LYS:HD3	2.17	0.45
1:o:464:PHE:HA	1:o:467:TYR:CD2	2.52	0.45
1:o:714:THR:O	1:7:252:LEU:HD22	2.17	0.45
1:q:294:ASN:OD1	1:q:686:LYS:HD3	2.17	0.45
1:q:330:THR:HG22	1:q:397:ARG:HG3	1.99	0.45
1:r:276:ASN:OD1	1:r:615:ILE:N	2.46	0.45
1:s:541:GLY:HA3	1:s:554:ASN:O	2.17	0.45
1:t:464:PHE:HA	1:t:467:TYR:CD2	2.52	0.45
1:u:242:VAL:HB	1:2:652:PRO:HG2	1.99	0.45
1:u:288:GLN:NE2	1:u:698:PHE:O	2.47	0.45
1:u:435:LEU:HD13	1:u:468:ARG:HG3	1.99	0.45
1:u:658:THR:HG22	1:u:659:PHE:N	2.32	0.45
1:w:541:GLY:HA3	1:w:554:ASN:O	2.17	0.45
1:y:330:THR:HG22	1:y:397:ARG:HG3	1.99	0.45
1:y:464:PHE:HA	1:y:467:TYR:CD2	2.52	0.45
1:z:541:GLY:HA3	1:z:554:ASN:O	2.17	0.45
1:1:435:LEU:HD13	1:1:468:ARG:HG3	1.99	0.45
1:1:464:PHE:HA	1:1:467:TYR:CD2	2.52	0.45
1:2:242:VAL:HB	1:3:652:PRO:HG2	1.99	0.45
1:2:541:GLY:HA3	1:2:554:ASN:O	2.16	0.45
1:7:658:THR:HG22	1:7:659:PHE:N	2.32	0.45
1:A:435:LEU:HD13	1:A:468:ARG:HG3	1.99	0.45
1:B:435:LEU:HD13	1:B:468:ARG:HG3	1.99	0.45
1:B:464:PHE:HA	1:B:467:TYR:CD2	2.52	0.45
1:C:299:PRO:HD3	1:C:635:PHE:CE2	2.50	0.45
1:C:349:GLN:HE21	1:M:467:TYR:HE1	1.63	0.45
1:C:445:GLU:OE1	1:C:445:GLU:N	2.47	0.45
1:D:452:ALA:HB2	1:N:491:LYS:HE2	1.99	0.45
1:E:435:LEU:HD13	1:E:468:ARG:HG3	1.99	0.45
1:F:330:THR:HG22	1:F:397:ARG:HG3	1.99	0.45
1:I:435:LEU:HD13	1:I:468:ARG:HG3	1.99	0.45
1:J:242:VAL:HB	1:a:652:PRO:HG2	1.99	0.45
1:L:464:PHE:HA	1:L:467:TYR:CD2	2.52	0.45
1:N:464:PHE:HA	1:N:467:TYR:CD2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:435:LEU:HD13	1:P:468:ARG:HG3	1.99	0.45
1:T:308:ASN:HB2	1:T:675:GLN:HG2	1.98	0.45
1:W:464:PHE:HA	1:W:467:TYR:CD2	2.52	0.45
1:X:464:PHE:HA	1:X:467:TYR:CD2	2.52	0.45
1:Y:330:THR:HG22	1:Y:397:ARG:HG3	1.99	0.45
1:Y:445:GLU:OE1	1:Y:445:GLU:N	2.47	0.45
1:Y:541:GLY:HA3	1:Y:554:ASN:O	2.17	0.45
1:c:484:LYS:HE2	1:c:557:PHE:HE2	1.82	0.45
1:d:541:GLY:HA3	1:d:554:ASN:O	2.17	0.45
1:f:288:GLN:NE2	1:f:698:PHE:O	2.47	0.45
1:h:242:VAL:HB	1:i:652:PRO:HG2	1.97	0.45
1:j:541:GLY:HA3	1:j:554:ASN:O	2.16	0.45
1:n:253:ARG:NH2	1:n:379:GLN:HE22	2.00	0.45
1:r:308:ASN:HB2	1:r:675:GLN:HG2	1.99	0.45
1:t:344:VAL:HB	1:v:428:ASN:HB2	1.99	0.45
1:t:658:THR:HG22	1:t:659:PHE:N	2.32	0.45
1:u:276:ASN:OD1	1:u:615:ILE:N	2.46	0.45
1:u:464:PHE:HA	1:u:467:TYR:CD2	2.52	0.45
1:v:330:THR:HG22	1:v:397:ARG:HG3	1.99	0.45
1:v:435:LEU:HD13	1:v:468:ARG:HG3	1.99	0.45
1:z:464:PHE:HA	1:z:467:TYR:CD2	2.52	0.45
1:z:652:PRO:HG2	1:4:242:VAL:HB	1.98	0.45
1:3:294:ASN:OD1	1:3:686:LYS:HD3	2.17	0.45
1:5:435:LEU:HD13	1:5:468:ARG:HG3	1.99	0.45
1:6:464:PHE:HA	1:6:467:TYR:CD2	2.52	0.45
1:7:330:THR:HG22	1:7:397:ARG:HG3	1.99	0.45
1:7:445:GLU:OE1	1:7:445:GLU:N	2.47	0.45
1:8:253:ARG:HH21	1:8:379:GLN:NE2	1.99	0.45
1:8:658:THR:HG22	1:8:659:PHE:N	2.32	0.45
1:B:658:THR:HG22	1:B:659:PHE:N	2.32	0.45
1:D:308:ASN:HB2	1:D:675:GLN:HG2	1.99	0.45
1:G:658:THR:HG22	1:G:659:PHE:N	2.32	0.45
1:I:464:PHE:HA	1:I:467:TYR:CD2	2.52	0.45
1:L:435:LEU:HD13	1:L:468:ARG:HG3	1.99	0.45
1:O:464:PHE:HA	1:O:467:TYR:CD2	2.52	0.45
1:P:541:GLY:HA3	1:P:554:ASN:O	2.17	0.45
1:Q:242:VAL:HB	1:S:652:PRO:HG2	1.99	0.45
1:Q:294:ASN:OD1	1:Q:686:LYS:HD3	2.16	0.45
1:S:308:ASN:HB2	1:S:675:GLN:HG2	1.99	0.45
1:S:330:THR:HG22	1:S:397:ARG:HG3	1.99	0.45
1:Z:464:PHE:HA	1:Z:467:TYR:CD2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:294:ASN:OD1	1:a:686:LYS:HD3	2.17	0.45
1:e:445:GLU:OE1	1:e:445:GLU:N	2.47	0.45
1:g:435:LEU:HD13	1:g:468:ARG:HG3	1.99	0.45
1:h:325:ASN:HD21	1:i:328:THR:HG1	1.62	0.45
1:i:541:GLY:HA3	1:i:554:ASN:O	2.17	0.45
1:i:658:THR:HG22	1:i:659:PHE:N	2.32	0.45
1:j:330:THR:HG22	1:j:397:ARG:HG3	1.99	0.45
1:k:227:THR:O	1:k:227:THR:HG23	2.17	0.45
1:k:308:ASN:HB2	1:k:675:GLN:HG2	1.98	0.45
1:l:464:PHE:HA	1:l:467:TYR:CD2	2.52	0.45
1:m:308:ASN:HB2	1:m:675:GLN:HG2	1.98	0.45
1:m:541:GLY:HA3	1:m:554:ASN:O	2.17	0.45
1:n:541:GLY:HA3	1:n:554:ASN:O	2.17	0.45
1:q:541:GLY:HA3	1:q:554:ASN:O	2.16	0.45
1:r:294:ASN:OD1	1:r:686:LYS:HD3	2.16	0.45
1:r:330:THR:HG22	1:r:397:ARG:HG3	1.99	0.45
1:r:652:PRO:HG2	1:x:242:VAL:HB	1.99	0.45
1:t:268:THR:OG1	1:t:366:TYR:O	2.24	0.45
1:w:253:ARG:NH2	1:w:379:GLN:HE22	2.00	0.45
1:w:294:ASN:OD1	1:w:686:LYS:HD3	2.16	0.45
1:x:294:ASN:OD1	1:x:686:LYS:HD3	2.17	0.45
1:6:445:GLU:OE1	1:6:445:GLU:N	2.47	0.45
1:8:464:PHE:HA	1:8:467:TYR:CD2	2.52	0.45
1:C:288:GLN:NE2	1:C:698:PHE:O	2.47	0.44
1:C:435:LEU:HD13	1:C:468:ARG:HG3	1.99	0.44
1:D:227:THR:O	1:D:227:THR:HG23	2.17	0.44
1:H:330:THR:HG22	1:H:397:ARG:HG3	1.99	0.44
1:J:227:THR:O	1:J:227:THR:HG23	2.17	0.44
1:J:435:LEU:HD13	1:J:468:ARG:HG3	1.99	0.44
1:J:464:PHE:HA	1:J:467:TYR:CD2	2.52	0.44
1:K:242:VAL:HB	1:L:652:PRO:HG2	1.99	0.44
1:K:484:LYS:HE2	1:K:557:PHE:HE2	1.82	0.44
1:M:242:VAL:HB	1:N:652:PRO:HG2	1.97	0.44
1:M:464:PHE:HA	1:M:467:TYR:CD2	2.52	0.44
1:N:541:GLY:HA3	1:N:554:ASN:O	2.17	0.44
1:N:658:THR:HG22	1:N:659:PHE:N	2.32	0.44
1:O:652:PRO:HG2	1:d:242:VAL:HB	1.99	0.44
1:P:330:THR:HG22	1:P:397:ARG:HG3	1.99	0.44
1:Q:541:GLY:HA3	1:Q:554:ASN:O	2.16	0.44
1:R:227:THR:O	1:R:227:THR:HG23	2.17	0.44
1:R:464:PHE:HA	1:R:467:TYR:CD2	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:541:GLY:HA3	1:R:554:ASN:O	2.16	0.44
1:S:276:ASN:OD1	1:S:615:ILE:N	2.46	0.44
1:T:484:LYS:HE2	1:T:557:PHE:HE2	1.82	0.44
1:V:464:PHE:HA	1:V:467:TYR:CD2	2.52	0.44
1:Z:435:LEU:HD13	1:Z:468:ARG:HG3	1.99	0.44
1:b:308:ASN:HB2	1:b:675:GLN:HG2	1.99	0.44
1:b:484:LYS:HE2	1:b:557:PHE:HE2	1.82	0.44
1:c:435:LEU:HD13	1:c:468:ARG:HG3	1.99	0.44
1:c:445:GLU:OE1	1:c:445:GLU:N	2.47	0.44
1:d:294:ASN:OD1	1:d:686:LYS:HD3	2.16	0.44
1:d:484:LYS:HE2	1:d:557:PHE:HE2	1.82	0.44
1:e:253:ARG:NH2	1:e:379:GLN:HE22	2.00	0.44
1:e:435:LEU:HD13	1:e:468:ARG:HG3	1.99	0.44
1:f:308:ASN:HB2	1:f:675:GLN:HG2	1.99	0.44
1:f:330:THR:HG22	1:f:397:ARG:HG3	1.99	0.44
1:f:484:LYS:HE2	1:f:557:PHE:HE2	1.82	0.44
1:f:652:PRO:HG2	1:z:242:VAL:HB	1.99	0.44
1:h:464:PHE:HA	1:h:467:TYR:CD2	2.52	0.44
1:i:308:ASN:HB2	1:i:675:GLN:HG2	1.98	0.44
1:i:433:GLN:HG2	1:j:348:GLY:O	2.17	0.44
1:k:253:ARG:NH2	1:k:379:GLN:HE22	2.00	0.44
1:l:652:PRO:HG2	1:n:242:VAL:HB	1.99	0.44
1:m:484:LYS:HE2	1:m:557:PHE:HE2	1.82	0.44
1:n:435:LEU:HD13	1:n:468:ARG:HG3	1.99	0.44
1:n:484:LYS:HE2	1:n:557:PHE:HE2	1.82	0.44
1:p:294:ASN:OD1	1:p:686:LYS:HD3	2.16	0.44
1:p:464:PHE:HA	1:p:467:TYR:CD2	2.52	0.44
1:q:227:THR:O	1:q:227:THR:HG23	2.17	0.44
1:v:445:GLU:OE1	1:v:445:GLU:N	2.47	0.44
1:w:288:GLN:NE2	1:w:698:PHE:O	2.47	0.44
1:w:435:LEU:HD13	1:w:468:ARG:HG3	1.99	0.44
1:x:541:GLY:HA3	1:x:554:ASN:O	2.17	0.44
1:1:658:THR:HG22	1:1:659:PHE:N	2.32	0.44
1:2:227:THR:O	1:2:227:THR:HG23	2.17	0.44
1:2:435:LEU:HD13	1:2:468:ARG:HG3	1.99	0.44
1:2:464:PHE:HA	1:2:467:TYR:CD2	2.52	0.44
1:7:288:GLN:NE2	1:7:698:PHE:O	2.47	0.44
1:7:541:GLY:HA3	1:7:554:ASN:O	2.17	0.44
1:E:288:GLN:NE2	1:E:698:PHE:O	2.47	0.44
1:E:294:ASN:OD1	1:E:686:LYS:HD3	2.16	0.44
1:E:330:THR:HG22	1:E:397:ARG:HG3	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:276:ASN:OD1	1:I:615:ILE:N	2.46	0.44
1:K:294:ASN:OD1	1:K:686:LYS:HD3	2.17	0.44
1:K:344:VAL:HB	1:8:428:ASN:HB2	2.00	0.44
1:K:435:LEU:HD13	1:K:468:ARG:HG3	1.99	0.44
1:L:242:VAL:HB	1:b:652:PRO:HG2	1.99	0.44
1:N:308:ASN:HB2	1:N:675:GLN:HG2	1.98	0.44
1:O:658:THR:HG22	1:O:659:PHE:N	2.32	0.44
1:P:276:ASN:OD1	1:P:615:ILE:N	2.46	0.44
1:P:484:LYS:HE2	1:P:557:PHE:HE2	1.82	0.44
1:Q:435:LEU:HD13	1:Q:468:ARG:HG3	1.99	0.44
1:R:428:ASN:HB2	1:S:344:VAL:HB	2.00	0.44
1:T:330:THR:HG22	1:T:397:ARG:HG3	1.99	0.44
1:W:428:ASN:HB2	1:Y:344:VAL:HB	1.99	0.44
1:W:435:LEU:HD13	1:W:468:ARG:HG3	1.99	0.44
1:W:445:GLU:OE1	1:W:445:GLU:N	2.47	0.44
1:Z:227:THR:O	1:Z:227:THR:HG23	2.17	0.44
1:Z:428:ASN:HB2	1:4:344:VAL:HB	2.00	0.44
1:b:288:GLN:NE2	1:b:698:PHE:O	2.47	0.44
1:b:330:THR:HG22	1:b:397:ARG:HG3	1.99	0.44
1:d:308:ASN:HB2	1:d:675:GLN:HG2	1.98	0.44
1:d:435:LEU:HD13	1:d:468:ARG:HG3	1.99	0.44
1:g:288:GLN:NE2	1:g:698:PHE:O	2.47	0.44
1:q:428:ASN:HB2	1:r:344:VAL:HB	2.00	0.44
1:q:464:PHE:HA	1:q:467:TYR:CD2	2.52	0.44
1:x:276:ASN:OD1	1:x:615:ILE:N	2.46	0.44
1:x:435:LEU:HD13	1:x:468:ARG:HG3	1.99	0.44
1:x:464:PHE:HA	1:x:467:TYR:CD2	2.52	0.44
1:z:435:LEU:HD13	1:z:468:ARG:HG3	1.99	0.44
1:3:541:GLY:HA3	1:3:554:ASN:O	2.17	0.44
1:4:294:ASN:OD1	1:4:686:LYS:HD3	2.16	0.44
1:4:484:LYS:HE2	1:4:557:PHE:HE2	1.82	0.44
1:5:330:THR:HG22	1:5:397:ARG:HG3	1.99	0.44
1:6:435:LEU:HD13	1:6:468:ARG:HG3	1.99	0.44
1:7:308:ASN:HB2	1:7:675:GLN:HG2	1.98	0.44
1:7:464:PHE:HA	1:7:467:TYR:CD2	2.52	0.44
1:8:435:LEU:HD13	1:8:468:ARG:HG3	1.99	0.44
1:A:714:THR:O	1:E:252:LEU:HD22	2.18	0.44
1:H:428:ASN:HB2	1:W:344:VAL:HB	2.00	0.44
1:I:714:THR:O	1:J:252:LEU:HD22	2.18	0.44
1:M:288:GLN:NE2	1:M:698:PHE:O	2.47	0.44
1:M:325:ASN:HD21	1:N:328:THR:HG1	1.62	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:330:THR:HG22	1:M:397:ARG:HG3	1.99	0.44
1:M:435:LEU:HD13	1:M:468:ARG:HG3	1.99	0.44
1:M:652:PRO:HG2	1:c:242:VAL:HB	1.99	0.44
1:O:330:THR:HG22	1:O:397:ARG:HG3	1.99	0.44
1:Q:308:ASN:HB2	1:Q:675:GLN:HG2	1.98	0.44
1:Q:464:PHE:HA	1:Q:467:TYR:CD2	2.52	0.44
1:V:294:ASN:OD1	1:V:686:LYS:HD3	2.16	0.44
1:W:605:GLN:HA	1:Y:623:ASP:HB2	1.99	0.44
1:Y:288:GLN:NE2	1:Y:698:PHE:O	2.47	0.44
1:Y:308:ASN:HB2	1:Y:675:GLN:HG2	1.99	0.44
1:Z:330:THR:HG22	1:Z:397:ARG:HG3	1.99	0.44
1:c:330:THR:HG22	1:c:397:ARG:HG3	1.99	0.44
1:c:428:ASN:HB2	1:o:344:VAL:HB	1.99	0.44
1:d:227:THR:O	1:d:227:THR:HG23	2.17	0.44
1:e:242:VAL:HB	1:h:652:PRO:HG2	1.99	0.44
1:e:330:THR:HG22	1:e:397:ARG:HG3	1.99	0.44
1:h:253:ARG:NH2	1:h:379:GLN:HE22	2.00	0.44
1:h:435:LEU:HD13	1:h:468:ARG:HG3	1.99	0.44
1:i:330:THR:HG22	1:i:397:ARG:HG3	1.99	0.44
1:i:576:GLN:HB2	1:j:506:HIS:CE1	2.53	0.44
1:j:276:ASN:OD1	1:j:615:ILE:N	2.46	0.44
1:m:330:THR:HG22	1:m:397:ARG:HG3	1.99	0.44
1:n:252:LEU:HD22	1:r:714:THR:O	2.18	0.44
1:n:288:GLN:NE2	1:n:698:PHE:O	2.47	0.44
1:n:294:ASN:OD1	1:n:686:LYS:HD3	2.16	0.44
1:r:435:LEU:HD13	1:r:468:ARG:HG3	1.99	0.44
1:w:330:THR:HG22	1:w:397:ARG:HG3	1.99	0.44
1:y:308:ASN:HB2	1:y:675:GLN:HG2	1.99	0.44
1:1:330:THR:HG22	1:1:397:ARG:HG3	1.99	0.44
1:2:308:ASN:HB2	1:2:675:GLN:HG2	1.99	0.44
1:6:428:ASN:HB2	1:7:344:VAL:HB	1.99	0.44
1:8:227:THR:O	1:8:227:THR:HG23	2.17	0.44
1:A:428:ASN:HB2	1:G:344:VAL:HB	2.00	0.44
1:A:445:GLU:OE1	1:A:445:GLU:N	2.47	0.44
1:B:330:THR:HG22	1:B:397:ARG:HG3	1.99	0.44
1:B:344:VAL:HB	1:L:428:ASN:HB2	2.00	0.44
1:F:308:ASN:HB2	1:F:675:GLN:HG2	1.99	0.44
1:G:330:THR:HG22	1:G:397:ARG:HG3	1.99	0.44
1:H:242:VAL:HB	1:I:652:PRO:HG2	1.98	0.44
1:H:294:ASN:OD1	1:H:686:LYS:HD3	2.17	0.44
1:H:464:PHE:HA	1:H:467:TYR:CD2	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:484:LYS:HE2	1:H:557:PHE:HE2	1.82	0.44
1:J:308:ASN:HB2	1:J:675:GLN:HG2	1.99	0.44
1:M:253:ARG:NH2	1:M:379:GLN:HE22	2.00	0.44
1:N:330:THR:HG22	1:N:397:ARG:HG3	1.99	0.44
1:Q:276:ASN:OD1	1:Q:615:ILE:N	2.46	0.44
1:R:288:GLN:NE2	1:R:698:PHE:O	2.47	0.44
1:S:435:LEU:HD13	1:S:468:ARG:HG3	1.99	0.44
1:S:714:THR:O	1:d:252:LEU:HD22	2.18	0.44
1:W:452:ALA:HB2	1:Y:491:LYS:HE2	1.99	0.44
1:X:344:VAL:HB	1:e:428:ASN:HB2	1.99	0.44
1:Y:464:PHE:HA	1:Y:467:TYR:CD2	2.52	0.44
1:a:435:LEU:HD13	1:a:468:ARG:HG3	1.99	0.44
1:a:541:GLY:HA3	1:a:554:ASN:O	2.17	0.44
1:f:252:LEU:HD22	1:z:714:THR:O	2.18	0.44
1:i:294:ASN:OD1	1:i:686:LYS:HD3	2.16	0.44
1:l:658:THR:HG22	1:l:659:PHE:N	2.32	0.44
1:n:227:THR:O	1:n:227:THR:HG23	2.17	0.44
1:n:308:ASN:HB2	1:n:675:GLN:HG2	1.98	0.44
1:q:268:THR:OG1	1:q:366:TYR:O	2.24	0.44
1:u:714:THR:O	1:2:252:LEU:HD22	2.18	0.44
1:v:464:PHE:HA	1:v:467:TYR:CD2	2.52	0.44
1:x:308:ASN:HB2	1:x:675:GLN:HG2	1.99	0.44
1:x:330:THR:HG22	1:x:397:ARG:HG3	1.99	0.44
1:z:428:ASN:HB2	1:1:344:VAL:HB	2.00	0.44
1:1:227:THR:O	1:1:227:THR:HG23	2.17	0.44
1:4:435:LEU:HD13	1:4:468:ARG:HG3	1.99	0.44
1:4:464:PHE:HA	1:4:467:TYR:CD2	2.52	0.44
1:5:294:ASN:OD1	1:5:686:LYS:HD3	2.17	0.44
1:5:428:ASN:HB2	1:6:344:VAL:HB	2.00	0.44
1:5:506:HIS:CE1	1:7:576:GLN:HB2	2.52	0.44
1:6:484:LYS:HE2	1:6:557:PHE:HE2	1.82	0.44
1:6:605:GLN:HA	1:7:623:ASP:HB2	1.99	0.44
1:8:330:THR:HG22	1:8:397:ARG:HG3	1.99	0.44
1:A:506:HIS:CE1	1:I:576:GLN:HB2	2.53	0.44
1:G:268:THR:OG1	1:G:366:TYR:O	2.24	0.44
1:H:227:THR:O	1:H:227:THR:HG23	2.17	0.44
1:H:252:LEU:HD22	1:Z:714:THR:O	2.18	0.44
1:K:428:ASN:HB2	1:a:344:VAL:HB	2.00	0.44
1:K:464:PHE:HA	1:K:467:TYR:CD2	2.52	0.44
1:L:714:THR:O	1:b:252:LEU:HD22	2.18	0.44
1:O:623:ASP:OD1	1:n:415:SER:OG	2.28	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:464:PHE:HA	1:P:467:TYR:CD2	2.52	0.44
1:Q:330:THR:HG22	1:Q:397:ARG:HG3	1.99	0.44
1:S:227:THR:O	1:S:227:THR:HG23	2.17	0.44
1:W:484:LYS:HE2	1:W:557:PHE:HE2	1.82	0.44
1:Z:253:ARG:HH21	1:Z:379:GLN:NE2	1.99	0.44
1:d:415:SER:OG	1:l:623:ASP:OD1	2.28	0.44
1:d:464:PHE:HA	1:d:467:TYR:CD2	2.52	0.44
1:f:464:PHE:HA	1:f:467:TYR:CD2	2.52	0.44
1:h:330:THR:HG22	1:h:397:ARG:HG3	1.99	0.44
1:i:605:GLN:HA	1:j:623:ASP:HB2	2.00	0.44
1:j:227:THR:HG23	1:j:227:THR:O	2.17	0.44
1:j:484:LYS:HE2	1:j:557:PHE:HE2	1.82	0.44
1:l:330:THR:HG22	1:l:397:ARG:HG3	1.99	0.44
1:m:464:PHE:HA	1:m:467:TYR:CD2	2.52	0.44
1:m:714:THR:O	1:s:252:LEU:HD22	2.18	0.44
1:n:464:PHE:HA	1:n:467:TYR:CD2	2.52	0.44
1:q:288:GLN:NE2	1:q:698:PHE:O	2.47	0.44
1:q:467:TYR:HE1	1:r:349:GLN:HE21	1.63	0.44
1:r:227:THR:O	1:r:227:THR:HG23	2.17	0.44
1:t:330:THR:HG22	1:t:397:ARG:HG3	1.99	0.44
1:3:344:VAL:HB	1:4:428:ASN:HB2	2.00	0.44
1:3:435:LEU:HD13	1:3:468:ARG:HG3	1.99	0.44
1:5:252:LEU:HD22	1:8:714:THR:O	2.18	0.44
1:5:464:PHE:HA	1:5:467:TYR:CD2	2.52	0.44
1:5:484:LYS:HE2	1:5:557:PHE:HE2	1.82	0.44
1:5:572:ASP:OD1	1:5:573:MET:N	2.46	0.44
1:A:464:PHE:HA	1:A:467:TYR:CD2	2.52	0.44
1:B:227:THR:HG23	1:B:227:THR:O	2.17	0.44
1:B:428:ASN:HB2	1:J:344:VAL:HB	2.00	0.44
1:D:464:PHE:HA	1:D:467:TYR:CD2	2.52	0.44
1:E:658:THR:HG22	1:E:659:PHE:N	2.32	0.44
1:K:652:PRO:HG2	1:7:242:VAL:HB	1.99	0.44
1:N:294:ASN:OD1	1:N:686:LYS:HD3	2.16	0.44
1:P:227:THR:O	1:P:227:THR:HG23	2.17	0.44
1:R:467:TYR:HE1	1:S:349:GLN:HE21	1.63	0.44
1:T:464:PHE:HA	1:T:467:TYR:CD2	2.52	0.44
1:T:714:THR:O	1:U:252:LEU:HD22	2.18	0.44
1:U:714:THR:O	1:e:252:LEU:HD22	2.18	0.44
1:V:541:GLY:HA3	1:V:554:ASN:O	2.17	0.44
1:X:227:THR:O	1:X:227:THR:HG23	2.17	0.44
1:Y:242:VAL:HB	1:4:652:PRO:HG2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:435:LEU:HD13	1:Y:468:ARG:HG3	1.99	0.44
1:b:464:PHE:HA	1:b:467:TYR:CD2	2.52	0.44
1:c:253:ARG:NH2	1:c:379:GLN:HE22	2.00	0.44
1:c:288:GLN:NE2	1:c:698:PHE:O	2.47	0.44
1:c:524:THR:HG1	1:c:560:GLU:H	1.59	0.44
1:d:288:GLN:NE2	1:d:698:PHE:O	2.47	0.44
1:d:576:GLN:HB2	1:l:506:HIS:CE1	2.53	0.44
1:e:288:GLN:NE2	1:e:698:PHE:O	2.47	0.44
1:h:288:GLN:NE2	1:h:698:PHE:O	2.47	0.44
1:i:484:LYS:HE2	1:i:557:PHE:HE2	1.82	0.44
1:j:242:VAL:HB	1:x:652:PRO:HG2	2.00	0.44
1:m:576:GLN:HB2	1:n:506:HIS:CE1	2.53	0.44
1:o:227:THR:O	1:o:227:THR:HG23	2.17	0.44
1:p:541:GLY:HA3	1:p:554:ASN:O	2.17	0.44
1:r:464:PHE:HA	1:r:467:TYR:CD2	2.52	0.44
1:u:652:PRO:HG2	1:5:242:VAL:HB	1.98	0.44
1:v:252:LEU:HD22	1:l:714:THR:O	2.18	0.44
1:v:714:THR:O	1:w:252:LEU:HD22	2.18	0.44
1:1:428:ASN:HB2	1:2:344:VAL:HB	2.00	0.44
1:3:276:ASN:OD1	1:3:615:ILE:N	2.46	0.44
1:5:227:THR:O	1:5:227:THR:HG23	2.17	0.44
1:6:452:ALA:HB2	1:7:491:LYS:HE2	1.99	0.44
1:A:252:LEU:HD22	1:B:714:THR:O	2.18	0.44
1:A:623:ASP:OD1	1:I:415:SER:OG	2.28	0.44
1:C:226:SER:HB2	1:C:235:THR:HG22	2.00	0.44
1:D:435:LEU:HD13	1:D:468:ARG:HG3	1.99	0.44
1:D:652:PRO:HG2	1:E:242:VAL:HB	1.99	0.44
1:F:252:LEU:HD22	1:R:714:THR:O	2.18	0.44
1:H:506:HIS:CE1	1:Y:576:GLN:HB2	2.52	0.44
1:J:576:GLN:HB2	1:L:506:HIS:CE1	2.53	0.44
1:N:435:LEU:HD13	1:N:468:ARG:HG3	1.99	0.44
1:O:506:HIS:CE1	1:n:576:GLN:HB2	2.53	0.44
1:P:308:ASN:HB2	1:P:675:GLN:HG2	1.99	0.44
1:P:714:THR:O	1:Q:252:LEU:HD22	2.18	0.44
1:S:464:PHE:HA	1:S:467:TYR:CD2	2.52	0.44
1:T:576:GLN:HB2	1:d:506:HIS:CE1	2.53	0.44
1:V:576:GLN:HB2	1:e:506:HIS:CE1	2.53	0.44
1:c:252:LEU:HD22	1:s:714:THR:O	2.18	0.44
1:c:414:HIS:HB2	1:c:635:PHE:HE1	1.83	0.44
1:c:506:HIS:CE1	1:p:576:GLN:HB2	2.53	0.44
1:f:344:VAL:HB	1:g:428: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:g:226:SER:HB2	1:g:235:THR:HG22	2.00	0.44
1:i:435:LEU:HD13	1:i:468:ARG:HG3	1.99	0.44
1:j:464:PHE:HA	1:j:467:TYR:CD2	2.52	0.44
1:j:576:GLN:HB2	1:k:506:HIS:CE1	2.52	0.44
1:k:464:PHE:HA	1:k:467:TYR:CD2	2.52	0.44
1:l:423:LEU:HD21	1:l:603:VAL:HG21	2.00	0.44
1:q:242:VAL:HB	1:y:652:PRO:HG2	1.99	0.44
1:q:714:THR:O	1:y:252:LEU:HD22	2.18	0.44
1:s:308:ASN:HB2	1:s:675:GLN:HG2	1.99	0.44
1:t:435:LEU:HD13	1:t:468:ARG:HG3	1.99	0.44
1:u:415:SER:OG	1:v:623:ASP:OD1	2.28	0.44
1:u:576:GLN:HB2	1:v:506:HIS:CE1	2.53	0.44
1:w:415:SER:OG	1:x:623:ASP:OD1	2.28	0.44
1:w:658:THR:HG22	1:w:659:PHE:N	2.32	0.44
1:3:464:PHE:HA	1:3:467:TYR:CD2	2.52	0.44
1:B:294:ASN:OD1	1:B:686:LYS:HD3	2.17	0.44
1:C:344:VAL:HB	1:M:428:ASN:HB2	2.00	0.44
1:C:428:ASN:HB2	1:b:344:VAL:HB	2.00	0.44
1:D:253:ARG:HH21	1:D:379:GLN:NE2	1.99	0.44
1:D:541:GLY:HA3	1:D:554:ASN:O	2.17	0.44
1:F:484:LYS:HE2	1:F:557:PHE:HE2	1.82	0.44
1:F:652:PRO:HG2	1:R:242:VAL:HB	1.99	0.44
1:G:435:LEU:HD13	1:G:468:ARG:HG3	1.99	0.44
1:H:572:ASP:OD1	1:H:573:MET:N	2.46	0.44
1:I:423:LEU:HD21	1:I:603:VAL:HG21	2.00	0.44
1:K:714:THR:O	1:L:252:LEU:HD22	2.18	0.44
1:L:227:THR:O	1:L:227:THR:HG23	2.17	0.44
1:N:242:VAL:HB	1:m:652:PRO:HG2	1.99	0.44
1:N:484:LYS:HE2	1:N:557:PHE:HE2	1.82	0.44
1:O:252:LEU:HD22	1:d:714:THR:O	2.18	0.44
1:O:308:ASN:HB2	1:O:675:GLN:HG2	1.98	0.44
1:P:294:ASN:OD1	1:P:686:LYS:HD3	2.17	0.44
1:S:226:SER:HB2	1:S:235:THR:HG22	2.00	0.44
1:S:253:ARG:NH2	1:S:379:GLN:HE22	2.00	0.44
1:U:308:ASN:HB2	1:U:675:GLN:HG2	1.99	0.44
1:U:414:HIS:HB2	1:U:635:PHE:HE1	1.83	0.44
1:U:435:LEU:HD13	1:U:468:ARG:HG3	1.99	0.44
1:V:435:LEU:HD13	1:V:468:ARG:HG3	1.99	0.44
1:X:294:ASN:OD1	1:X:686:LYS:HD3	2.17	0.44
1:a:227:THR:O	1:a:227:THR:HG23	2.17	0.44
1:a:464:PHE:HA	1:a:467:TYR:CD2	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:227:THR:O	1:c:227:THR:HG23	2.17	0.44
1:e:227:THR:HG23	1:e:227:THR:O	2.17	0.44
1:e:414:HIS:HB2	1:e:635:PHE:HE1	1.83	0.44
1:e:524:THR:HG1	1:e:560:GLU:H	1.59	0.44
1:j:252:LEU:HD22	1:l:714:THR:O	2.17	0.44
1:j:308:ASN:HB2	1:j:675:GLN:HG2	1.98	0.44
1:k:435:LEU:HD13	1:k:468:ARG:HG3	1.99	0.44
1:k:652:PRO:HG2	1:w:242:VAL:HB	1.99	0.44
1:l:308:ASN:HB2	1:l:675:GLN:HG2	1.99	0.44
1:z:227:THR:O	1:z:227:THR:HG23	2.17	0.44
1:z:506:HIS:CE1	1:2:576:GLN:HB2	2.53	0.44
1:1:294:ASN:OD1	1:1:686:LYS:HD3	2.17	0.44
1:3:658:THR:HG22	1:3:659:PHE:N	2.32	0.44
1:7:435:LEU:HD13	1:7:468:ARG:HG3	1.99	0.44
1:B:484:LYS:HE2	1:B:557:PHE:HE2	1.82	0.44
1:B:576:GLN:HB2	1:J:506:HIS:CE1	2.53	0.44
1:C:506:HIS:CE1	1:M:576:GLN:HB2	2.53	0.44
1:D:605:GLN:HA	1:N:623:ASP:HB2	1.99	0.44
1:D:658:THR:HG22	1:D:659:PHE:N	2.32	0.44
1:G:286:ASP:OD1	1:G:289:ARG:NH1	2.51	0.44
1:H:288:GLN:NE2	1:H:698:PHE:O	2.47	0.44
1:M:445:GLU:OE1	1:M:445:GLU:N	2.47	0.44
1:M:506:HIS:CE1	1:b:576:GLN:HB2	2.53	0.44
1:O:423:LEU:HD21	1:O:603:VAL:HG21	2.00	0.44
1:P:286:ASP:OD1	1:P:289:ARG:NH1	2.51	0.44
1:R:226:SER:HB2	1:R:235:THR:HG22	2.00	0.44
1:R:268:THR:OG1	1:R:366:TYR:O	2.24	0.44
1:R:484:LYS:HE2	1:R:557:PHE:HE2	1.82	0.44
1:S:428:ASN:HB2	1:U:344:VAL:HB	2.00	0.44
1:S:658:THR:HG22	1:S:659:PHE:N	2.32	0.44
1:T:242:VAL:HB	1:U:652:PRO:HG2	1.99	0.44
1:T:652:PRO:HG2	1:i:242:VAL:HB	1.99	0.44
1:U:330:THR:HG22	1:U:397:ARG:HG3	1.99	0.44
1:V:330:THR:HG22	1:V:397:ARG:HG3	1.99	0.44
1:V:414:HIS:HB2	1:V:635:PHE:HE1	1.83	0.44
1:W:423:LEU:HD21	1:W:603:VAL:HG21	2.00	0.44
1:Y:226:SER:HB2	1:Y:235:THR:HG22	2.00	0.44
1:Y:227:THR:HG23	1:Y:227:THR:O	2.17	0.44
1:b:435:LEU:HD13	1:b:468:ARG:HG3	1.99	0.44
1:c:346:ASP:HB2	1:c:617:ALA:HA	2.00	0.44
1:d:414:HIS:HB2	1:d:635:PHE:HE1	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:346:ASP:HB2	1:e:617:ALA:HA	2.00	0.44
1:f:227:THR:O	1:f:227:THR:HG23	2.17	0.44
1:f:435:LEU:HD13	1:f:468:ARG:HG3	1.99	0.44
1:g:344:VAL:HB	1:h:428:ASN:HB2	2.00	0.44
1:j:294:ASN:OD1	1:j:686:LYS:HD3	2.16	0.44
1:l:252:LEU:HD22	1:n:714:THR:O	2.18	0.44
1:m:242:VAL:HB	1:s:652:PRO:HG2	1.99	0.44
1:m:253:ARG:NH2	1:m:379:GLN:HE22	2.00	0.44
1:n:414:HIS:HB2	1:n:635:PHE:HE1	1.83	0.44
1:o:294:ASN:OD1	1:o:686:LYS:HD3	2.17	0.44
1:p:414:HIS:HB2	1:p:635:PHE:HE1	1.83	0.44
1:p:435:LEU:HD13	1:p:468:ARG:HG3	1.99	0.44
1:q:226:SER:HB2	1:q:235:THR:HG22	2.00	0.44
1:q:286:ASP:OD1	1:q:289:ARG:NH1	2.51	0.44
1:r:226:SER:HB2	1:r:235:THR:HG22	2.00	0.44
1:r:428:ASN:HB2	1:s:344:VAL:HB	2.00	0.44
1:s:414:HIS:HB2	1:s:635:PHE:HE1	1.83	0.44
1:s:435:LEU:HD13	1:s:468:ARG:HG3	1.99	0.44
1:t:286:ASP:OD1	1:t:289:ARG:NH1	2.51	0.44
1:u:423:LEU:HD21	1:u:603:VAL:HG21	2.00	0.44
1:w:464:PHE:HA	1:w:467:TYR:CD2	2.52	0.44
1:y:484:LYS:HE2	1:y:557:PHE:HE2	1.82	0.44
1:1:576:GLN:HB2	1:2:506:HIS:CE1	2.53	0.44
1:3:286:ASP:OD1	1:3:289:ARG:NH1	2.51	0.44
1:3:330:THR:HG22	1:3:397:ARG:HG3	1.99	0.44
1:5:423:LEU:HD21	1:5:603:VAL:HG21	2.00	0.44
1:6:423:LEU:HD21	1:6:603:VAL:HG21	2.00	0.44
1:7:226:SER:HB2	1:7:235:THR:HG22	2.00	0.44
1:A:346:ASP:HB2	1:A:617:ALA:HA	2.00	0.43
1:B:346:ASP:HB2	1:B:617:ALA:HA	2.00	0.43
1:E:464:PHE:HA	1:E:467:TYR:CD2	2.52	0.43
1:E:506:HIS:CE1	1:F:576:GLN:HB2	2.53	0.43
1:H:423:LEU:HD21	1:H:603:VAL:HG21	2.00	0.43
1:I:227:THR:O	1:I:227:THR:HG23	2.17	0.43
1:K:346:ASP:HB2	1:K:617:ALA:HA	2.00	0.43
1:M:252:LEU:HD22	1:c:714:THR:O	2.18	0.43
1:N:226:SER:HB2	1:N:235:THR:HG22	2.00	0.43
1:O:576:GLN:HB2	1:m:506:HIS:CE1	2.53	0.43
1:P:414:HIS:HB2	1:P:635:PHE:HE1	1.83	0.43
1:P:423:LEU:HD21	1:P:603:VAL:HG21	2.00	0.43
1:Q:226:SER:HB2	1:Q:235:THR:HG22	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:286:ASP:OD1	1:R:289:ARG:NH1	2.51	0.43
1:S:432:ASP:OD1	1:S:461:SER:N	2.40	0.43
1:T:344:VAL:HB	1:l:428:ASN:HB2	2.00	0.43
1:T:506:HIS:CE1	1:l:576:GLN:HB2	2.53	0.43
1:U:484:LYS:HE2	1:U:557:PHE:HE2	1.82	0.43
1:V:227:THR:O	1:V:227:THR:HG23	2.17	0.43
1:V:252:LEU:HD22	1:W:714:THR:O	2.18	0.43
1:W:227:THR:O	1:W:227:THR:HG23	2.17	0.43
1:W:286:ASP:OD1	1:W:289:ARG:NH1	2.51	0.43
1:X:286:ASP:OD1	1:X:289:ARG:NH1	2.51	0.43
1:Z:288:GLN:NE2	1:Z:698:PHE:O	2.47	0.43
1:a:428:ASN:HB2	1:8:344:VAL:HB	1.99	0.43
1:a:658:THR:HG22	1:a:659:PHE:N	2.32	0.43
1:c:276:ASN:OD1	1:c:615:ILE:N	2.46	0.43
1:d:286:ASP:OD1	1:d:289:ARG:NH1	2.51	0.43
1:e:714:THR:O	1:h:252:LEU:HD22	2.18	0.43
1:f:576:GLN:HB2	1:h:506:HIS:CE1	2.53	0.43
1:g:506:HIS:CE1	1:h:576:GLN:HB2	2.53	0.43
1:g:714:THR:O	1:1:252:LEU:HD22	2.18	0.43
1:j:286:ASP:OD1	1:j:289:ARG:NH1	2.51	0.43
1:j:414:HIS:HB2	1:j:635:PHE:HE1	1.83	0.43
1:j:452:ALA:HB2	1:k:491:LYS:HE2	1.98	0.43
1:k:541:GLY:HA3	1:k:554:ASN:O	2.17	0.43
1:k:658:THR:HG22	1:k:659:PHE:N	2.32	0.43
1:n:286:ASP:OD1	1:n:289:ARG:NH1	2.51	0.43
1:o:286:ASP:OD1	1:o:289:ARG:NH1	2.51	0.43
1:o:414:HIS:HB2	1:o:635:PHE:HE1	1.83	0.43
1:p:330:THR:HG22	1:p:397:ARG:HG3	1.99	0.43
1:r:658:THR:HG22	1:r:659:PHE:N	2.32	0.43
1:s:484:LYS:HE2	1:s:557:PHE:HE2	1.82	0.43
1:t:428:ASN:HB2	1:u:344:VAL:HB	2.00	0.43
1:u:428:ASN:HB2	1:v:344:VAL:HB	2.00	0.43
1:w:506:HIS:CE1	1:y:576:GLN:HB2	2.53	0.43
1:1:484:LYS:HE2	1:1:557:PHE:HE2	1.82	0.43
1:3:227:THR:O	1:3:227:THR:HG23	2.17	0.43
1:4:227:THR:O	1:4:227:THR:HG23	2.17	0.43
1:4:346:ASP:HB2	1:4:617:ALA:HA	2.00	0.43
1:6:286:ASP:OD1	1:6:289:ARG:NH1	2.51	0.43
1:B:252:LEU:HD22	1:C:714:THR:O	2.18	0.43
1:C:464:PHE:HA	1:C:467:TYR:CD2	2.52	0.43
1:D:226:SER:HB2	1:D:235:THR:HG22	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:226:SER:HB2	1:E:235:THR:HG22	2.00	0.43
1:F:435:LEU:HD13	1:F:468:ARG:HG3	1.99	0.43
1:G:428:ASN:HB2	1:I:344:VAL:HB	2.00	0.43
1:K:227:THR:O	1:K:227:THR:HG23	2.17	0.43
1:M:714:THR:O	1:N:252:LEU:HD22	2.17	0.43
1:O:428:ASN:HB2	1:m:344:VAL:HB	2.00	0.43
1:R:435:LEU:HD13	1:R:468:ARG:HG3	1.99	0.43
1:S:576:GLN:HB2	1:U:506:HIS:CE1	2.53	0.43
1:U:226:SER:HB2	1:U:235:THR:HG22	2.00	0.43
1:V:658:THR:HG22	1:V:659:PHE:N	2.32	0.43
1:X:414:HIS:HB2	1:X:635:PHE:HE1	1.83	0.43
1:Z:344:VAL:HB	1:3:428:ASN:HB2	1.99	0.43
1:Z:346:ASP:HB2	1:Z:617:ALA:HA	2.01	0.43
1:a:286:ASP:OD1	1:a:289:ARG:NH1	2.51	0.43
1:a:330:THR:HG22	1:a:397:ARG:HG3	1.99	0.43
1:b:227:THR:O	1:b:227:THR:HG23	2.17	0.43
1:e:276:ASN:OD1	1:e:615:ILE:N	2.46	0.43
1:g:464:PHE:HA	1:g:467:TYR:CD2	2.52	0.43
1:h:445:GLU:OE1	1:h:445:GLU:N	2.47	0.43
1:i:226:SER:HB2	1:i:235:THR:HG22	2.00	0.43
1:i:346:ASP:HB2	1:i:617:ALA:HA	2.00	0.43
1:i:623:ASP:HB2	1:k:605:GLN:HA	1.99	0.43
1:j:423:LEU:HD21	1:j:603:VAL:HG21	2.00	0.43
1:k:226:SER:HB2	1:k:235:THR:HG22	2.00	0.43
1:k:286:ASP:OD1	1:k:289:ARG:NH1	2.51	0.43
1:m:415:SER:OG	1:n:623:ASP:OD1	2.28	0.43
1:p:252:LEU:HD22	1:6:714:THR:O	2.18	0.43
1:p:445:GLU:OE1	1:p:445:GLU:N	2.47	0.43
1:p:714:THR:O	1:q:252:LEU:HD22	2.18	0.43
1:q:423:LEU:HD21	1:q:603:VAL:HG21	2.00	0.43
1:q:435:LEU:HD13	1:q:468:ARG:HG3	1.99	0.43
1:q:484:LYS:HE2	1:q:557:PHE:HE2	1.82	0.43
1:s:226:SER:HB2	1:s:235:THR:HG22	2.00	0.43
1:s:330:THR:HG22	1:s:397:ARG:HG3	1.99	0.43
1:u:227:THR:O	1:u:227:THR:HG23	2.17	0.43
1:v:346:ASP:HB2	1:v:617:ALA:HA	2.00	0.43
1:w:226:SER:HB2	1:w:235:THR:HG22	2.00	0.43
1:y:423:LEU:HD21	1:y:603:VAL:HG21	2.00	0.43
1:z:252:LEU:HD22	1:4:714:THR:O	2.18	0.43
1:1:346:ASP:HB2	1:1:617:ALA:HA	2.00	0.43
1:5:268:THR:OG1	1:5:366:TYR:O	2.24	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:288:GLN:NE2	1:5:698:PHE:O	2.47	0.43
1:6:226:SER:HB2	1:6:235:THR:HG22	2.00	0.43
1:7:227:THR:HG23	1:7:227:THR:O	2.17	0.43
1:7:286:ASP:OD1	1:7:289:ARG:NH1	2.51	0.43
1:8:346:ASP:HB2	1:8:617:ALA:HA	2.01	0.43
1:C:423:LEU:HD21	1:C:603:VAL:HG21	2.00	0.43
1:C:576:GLN:HB2	1:b:506:HIS:CE1	2.53	0.43
1:D:286:ASP:OD1	1:D:289:ARG:NH1	2.51	0.43
1:G:714:THR:O	1:W:252:LEU:HD22	2.18	0.43
1:H:714:THR:O	1:I:252:LEU:HD22	2.18	0.43
1:J:286:ASP:OD1	1:J:289:ARG:NH1	2.51	0.43
1:M:226:SER:HB2	1:M:235:THR:HG22	2.00	0.43
1:N:346:ASP:HB2	1:N:617:ALA:HA	2.01	0.43
1:O:227:THR:O	1:O:227:THR:HG23	2.17	0.43
1:O:458:LYS:NZ	1:m:350:GLU:OE2	2.44	0.43
1:R:252:LEU:HD22	1:V:714:THR:O	2.18	0.43
1:R:506:HIS:CE1	1:U:576:GLN:HB2	2.53	0.43
1:T:253:ARG:NH2	1:T:379:GLN:HE22	2.00	0.43
1:W:226:SER:HB2	1:W:235:THR:HG22	2.00	0.43
1:Y:286:ASP:OD1	1:Y:289:ARG:NH1	2.51	0.43
1:Z:252:LEU:HD22	1:a:714:THR:O	2.18	0.43
1:a:415:SER:OG	1:8:623:ASP:OD1	2.28	0.43
1:a:427:MET:SD	1:a:464:PHE:CD1	3.12	0.43
1:b:286:ASP:OD1	1:b:289:ARG:NH1	2.51	0.43
1:f:286:ASP:OD1	1:f:289:ARG:NH1	2.51	0.43
1:f:506:HIS:CE1	1:g:576:GLN:HB2	2.53	0.43
1:h:226:SER:HB2	1:h:235:THR:HG22	2.00	0.43
1:h:714:THR:O	1:i:252:LEU:HD22	2.17	0.43
1:k:252:LEU:HD22	1:w:714:THR:O	2.18	0.43
1:k:414:HIS:HB2	1:k:635:PHE:HE1	1.83	0.43
1:l:346:ASP:HB2	1:l:617:ALA:HA	2.00	0.43
1:p:227:THR:O	1:p:227:THR:HG23	2.17	0.43
1:p:658:THR:HG22	1:p:659:PHE:N	2.32	0.43
1:q:344:VAL:HB	1:s:428:ASN:HB2	2.00	0.43
1:q:506:HIS:CE1	1:s:576:GLN:HB2	2.53	0.43
1:r:414:HIS:HB2	1:r:635:PHE:HE1	1.83	0.43
1:r:576:GLN:HB2	1:s:506:HIS:CE1	2.53	0.43
1:s:464:PHE:HA	1:s:467:TYR:CD2	2.52	0.43
1:u:252:LEU:HD22	1:5:714:THR:O	2.18	0.43
1:u:346:ASP:HB2	1:u:617:ALA:HA	2.00	0.43
1:w:286:ASP:OD1	1:w:289:ARG:NH1	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:226:SER:HB2	1:x:235:THR:HG22	2.00	0.43
1:y:435:LEU:HD13	1:y:468:ARG:HG3	1.99	0.43
1:2:226:SER:HB2	1:2:235:THR:HG22	2.00	0.43
1:2:286:ASP:OD1	1:2:289:ARG:NH1	2.51	0.43
1:3:226:SER:HB2	1:3:235:THR:HG22	2.00	0.43
1:3:714:THR:O	1:8:252:LEU:HD22	2.18	0.43
1:6:227:THR:O	1:6:227:THR:HG23	2.17	0.43
1:A:427:MET:SD	1:A:464:PHE:CD1	3.12	0.43
1:A:658:THR:HG22	1:A:659:PHE:N	2.32	0.43
1:C:227:THR:O	1:C:227:THR:HG23	2.17	0.43
1:C:414:HIS:HB2	1:C:635:PHE:HE1	1.83	0.43
1:D:414:HIS:HB2	1:D:635:PHE:HE1	1.83	0.43
1:E:286:ASP:OD1	1:E:289:ARG:NH1	2.51	0.43
1:F:423:LEU:HD21	1:F:603:VAL:HG21	2.00	0.43
1:G:576:GLN:HB2	1:I:506:HIS:CE1	2.53	0.43
1:I:346:ASP:HB2	1:I:617:ALA:HA	2.00	0.43
1:J:226:SER:HB2	1:J:235:THR:HG22	2.00	0.43
1:J:346:ASP:HB2	1:J:617:ALA:HA	2.01	0.43
1:K:423:LEU:HD21	1:K:603:VAL:HG21	2.00	0.43
1:Q:714:THR:O	1:S:252:LEU:HD22	2.18	0.43
1:R:344:VAL:HB	1:U:428:ASN:HB2	2.00	0.43
1:R:423:LEU:HD21	1:R:603:VAL:HG21	2.00	0.43
1:U:464:PHE:HA	1:U:467:TYR:CD2	2.52	0.43
1:V:445:GLU:OE1	1:V:445:GLU:N	2.47	0.43
1:X:252:LEU:HD22	1:f:714:THR:O	2.18	0.43
1:a:226:SER:HB2	1:a:235:THR:HG22	2.00	0.43
1:b:346:ASP:HB2	1:b:617:ALA:HA	2.00	0.43
1:b:714:THR:O	1:o:252:LEU:HD22	2.18	0.43
1:c:423:LEU:HD21	1:c:603:VAL:HG21	2.00	0.43
1:c:652:PRO:HG2	1:s:242:VAL:HB	1.99	0.43
1:d:226:SER:HB2	1:d:235:THR:HG22	2.00	0.43
1:d:428:ASN:HB2	1:l:344:VAL:HB	1.99	0.43
1:e:423:LEU:HD21	1:e:603:VAL:HG21	2.00	0.43
1:f:346:ASP:HB2	1:f:617:ALA:HA	2.00	0.43
1:f:414:HIS:HB2	1:f:635:PHE:HE1	1.83	0.43
1:g:423:LEU:HD21	1:g:603:VAL:HG21	2.00	0.43
1:h:227:THR:HG23	1:h:227:THR:O	2.17	0.43
1:k:253:ARG:HH21	1:k:379:GLN:NE2	1.99	0.43
1:k:330:THR:HG22	1:k:397:ARG:HG3	1.99	0.43
1:m:226:SER:HB2	1:m:235:THR:HG22	2.00	0.43
1:m:428:ASN:HB2	1:n:344:VAL:HB	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:330:THR:HG22	1:n:397:ARG:HG3	1.99	0.43
1:q:445:GLU:OE1	1:q:445:GLU:N	2.47	0.43
1:r:252:LEU:HD22	1:x:714:THR:O	2.18	0.43
1:r:253:ARG:NH2	1:r:379:GLN:HE22	2.00	0.43
1:r:432:ASP:OD1	1:r:461:SER:N	2.40	0.43
1:t:714:THR:O	1:6:252:LEU:HD22	2.18	0.43
1:v:427:MET:SD	1:v:464:PHE:CD1	3.12	0.43
1:v:658:THR:HG22	1:v:659:PHE:N	2.32	0.43
1:w:227:THR:O	1:w:227:THR:HG23	2.17	0.43
1:w:423:LEU:HD21	1:w:603:VAL:HG21	2.00	0.43
1:2:346:ASP:HB2	1:2:617:ALA:HA	2.01	0.43
1:6:346:ASP:HB2	1:6:617:ALA:HA	2.01	0.43
1:8:288:GLN:NE2	1:8:698:PHE:O	2.47	0.43
1:B:268:THR:OG1	1:B:366:TYR:O	2.24	0.43
1:B:506:HIS:CE1	1:L:576:GLN:HB2	2.53	0.43
1:D:330:THR:HG22	1:D:397:ARG:HG3	1.99	0.43
1:E:423:LEU:HD21	1:E:603:VAL:HG21	2.00	0.43
1:F:288:GLN:NE2	1:F:698:PHE:O	2.47	0.43
1:F:344:VAL:HB	1:Q:428:ASN:HB2	2.00	0.43
1:G:227:THR:O	1:G:227:THR:HG23	2.17	0.43
1:H:286:ASP:OD1	1:H:289:ARG:NH1	2.51	0.43
1:I:427:MET:SD	1:I:464:PHE:CD1	3.12	0.43
1:J:714:THR:O	1:a:252:LEU:HD22	2.18	0.43
1:K:286:ASP:OD1	1:K:289:ARG:NH1	2.51	0.43
1:L:286:ASP:OD1	1:L:289:ARG:NH1	2.51	0.43
1:M:227:THR:HG23	1:M:227:THR:O	2.17	0.43
1:O:344:VAL:HB	1:n:428:ASN:HB2	1.99	0.43
1:O:346:ASP:HB2	1:O:617:ALA:HA	2.01	0.43
1:O:414:HIS:HB2	1:O:635:PHE:HE1	1.83	0.43
1:R:414:HIS:HB2	1:R:635:PHE:HE1	1.83	0.43
1:S:414:HIS:HB2	1:S:635:PHE:HE1	1.83	0.43
1:T:226:SER:HB2	1:T:235:THR:HG22	2.00	0.43
1:T:428:ASN:HB2	1:d:344:VAL:HB	2.00	0.43
1:U:286:ASP:OD1	1:U:289:ARG:NH1	2.51	0.43
1:W:346:ASP:HB2	1:W:617:ALA:HA	2.01	0.43
1:Z:226:SER:HB2	1:Z:235:THR:HG22	2.00	0.43
1:b:414:HIS:HB2	1:b:635:PHE:HE1	1.83	0.43
1:c:576:GLN:HB2	1:o:506:HIS:CE1	2.53	0.43
1:d:330:THR:HG22	1:d:397:ARG:HG3	1.99	0.43
1:d:423:LEU:HD21	1:d:603:VAL:HG21	2.00	0.43
1:e:286:ASP:OD1	1:e:289:ARG:NH1	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:227:THR:O	1:g:227:THR:HG23	2.17	0.43
1:g:414:HIS:HB2	1:g:635:PHE:HE1	1.83	0.43
1:l:227:THR:O	1:l:227:THR:HG23	2.17	0.43
1:l:268:THR:OG1	1:l:366:TYR:O	2.24	0.43
1:n:226:SER:HB2	1:n:235:THR:HG22	2.00	0.43
1:t:576:GLN:HB2	1:u:506:HIS:CE1	2.53	0.43
1:u:330:THR:HG22	1:u:397:ARG:HG3	1.99	0.43
1:u:427:MET:SD	1:u:464:PHE:CD1	3.11	0.43
1:x:428:ASN:HB2	1:y:344:VAL:HB	2.00	0.43
1:z:286:ASP:OD1	1:z:289:ARG:NH1	2.51	0.43
1:2:714:THR:O	1:3:252:LEU:HD22	2.18	0.43
1:3:427:MET:SD	1:3:464:PHE:CD1	3.12	0.43
1:4:414:HIS:HB2	1:4:635:PHE:HE1	1.83	0.43
1:4:423:LEU:HD21	1:4:603:VAL:HG21	2.00	0.43
1:6:276:ASN:OD1	1:6:615:ILE:N	2.46	0.43
1:8:226:SER:HB2	1:8:235:THR:HG22	2.00	0.43
1:A:286:ASP:OD1	1:A:289:ARG:NH1	2.51	0.43
1:A:344:VAL:HB	1:I:428:ASN:HB2	2.00	0.43
1:B:533:SER:OG	1:B:570:ASP:OD2	2.32	0.43
1:D:252:LEU:HD22	1:E:714:THR:O	2.18	0.43
1:E:227:THR:O	1:E:227:THR:HG23	2.17	0.43
1:E:344:VAL:HB	1:F:428:ASN:HB2	1.99	0.43
1:E:349:GLN:HA	1:F:433:GLN:HA	2.01	0.43
1:F:227:THR:O	1:F:227:THR:HG23	2.17	0.43
1:F:506:HIS:CE1	1:Q:576:GLN:HB2	2.53	0.43
1:K:414:HIS:HB2	1:K:635:PHE:HE1	1.83	0.43
1:L:423:LEU:HD21	1:L:603:VAL:HG21	2.00	0.43
1:N:227:THR:O	1:N:227:THR:HG23	2.17	0.43
1:Q:253:ARG:NH2	1:Q:379:GLN:HE22	2.00	0.43
1:U:242:VAL:HB	1:e:652:PRO:HG2	1.99	0.43
1:W:330:THR:HG22	1:W:397:ARG:HG3	1.99	0.43
1:X:435:LEU:HD13	1:X:468:ARG:HG3	1.99	0.43
1:X:506:HIS:CE1	1:e:576:GLN:HB2	2.53	0.43
1:c:286:ASP:OD1	1:c:289:ARG:NH1	2.51	0.43
1:d:346:ASP:HB2	1:d:617:ALA:HA	2.00	0.43
1:g:252:LEU:HD22	1:k:714:THR:O	2.18	0.43
1:l:414:HIS:HB2	1:l:635:PHE:HE1	1.83	0.43
1:o:435:LEU:HD13	1:o:468:ARG:HG3	1.99	0.43
1:q:414:HIS:HB2	1:q:635:PHE:HE1	1.83	0.43
1:s:227:THR:O	1:s:227:THR:HG23	2.17	0.43
1:s:286:ASP:OD1	1:s:289:ARG:NH1	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:344:VAL:HB	1:y:428:ASN:HB2	1.99	0.43
1:w:349:GLN:HA	1:y:433:GLN:HA	2.01	0.43
1:w:428:ASN:HB2	1:x:344:VAL:HB	2.00	0.43
1:y:227:THR:O	1:y:227:THR:HG23	2.17	0.43
1:y:288:GLN:NE2	1:y:698:PHE:O	2.47	0.43
1:z:346:ASP:HB2	1:z:617:ALA:HA	2.00	0.43
1:z:423:LEU:HD21	1:z:603:VAL:HG21	2.00	0.43
1:z:427:MET:SD	1:z:464:PHE:CD1	3.12	0.43
1:z:576:GLN:HB2	1:1:506:HIS:CE1	2.53	0.43
1:4:286:ASP:OD1	1:4:289:ARG:NH1	2.51	0.43
1:5:286:ASP:OD1	1:5:289:ARG:NH1	2.51	0.43
1:6:330:THR:HG22	1:6:397:ARG:HG3	1.99	0.43
1:8:423:LEU:HD21	1:8:603:VAL:HG21	2.00	0.43
1:B:288:GLN:NE2	1:B:698:PHE:O	2.47	0.43
1:C:252:LEU:HD22	1:D:714:THR:O	2.18	0.43
1:D:428:ASN:HB2	1:N:344:VAL:HB	1.99	0.43
1:I:330:THR:HG22	1:I:397:ARG:HG3	1.99	0.43
1:L:226:SER:HB2	1:L:235:THR:HG22	2.00	0.43
1:L:330:THR:HG22	1:L:397:ARG:HG3	1.99	0.43
1:L:427:MET:SD	1:L:464:PHE:CD1	3.12	0.43
1:M:344:VAL:HB	1:b:428:ASN:HB2	1.99	0.43
1:M:423:LEU:HD21	1:M:603:VAL:HG21	2.00	0.43
1:Q:346:ASP:HB2	1:Q:617:ALA:HA	2.00	0.43
1:R:415:SER:OG	1:S:623:ASP:OD1	2.28	0.43
1:R:445:GLU:OE1	1:R:445:GLU:N	2.47	0.43
1:S:346:ASP:HB2	1:S:617:ALA:HA	2.00	0.43
1:T:435:LEU:HD13	1:T:468:ARG:HG3	1.99	0.43
1:T:452:ALA:HB2	1:d:491:LYS:HE2	2.01	0.43
1:V:428:ASN:HB2	1:e:344:VAL:HB	2.00	0.43
1:V:506:HIS:CE1	1:X:576:GLN:HB2	2.53	0.43
1:X:308:ASN:HB2	1:X:675:GLN:HG2	1.99	0.43
1:X:349:GLN:HA	1:e:433:GLN:HA	2.01	0.43
1:Z:423:LEU:HD21	1:Z:603:VAL:HG21	2.00	0.43
1:c:344:VAL:HB	1:p:428:ASN:HB2	2.00	0.43
1:c:433:GLN:HA	1:o:349:GLN:HA	2.01	0.43
1:f:428:ASN:HB2	1:h:344:VAL:HB	1.99	0.43
1:h:423:LEU:HD21	1:h:603:VAL:HG21	2.00	0.43
1:i:227:THR:O	1:i:227:THR:HG23	2.17	0.43
1:j:226:SER:HB2	1:j:235:THR:HG22	2.00	0.43
1:m:435:LEU:HD13	1:m:468:ARG:HG3	1.99	0.43
1:m:452:ALA:HB2	1:n:491:LYS:HE2	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:346:ASP:HB2	1:n:617:ALA:HA	2.00	0.43
1:n:423:LEU:HD21	1:n:603:VAL:HG21	2.00	0.43
1:o:308:ASN:HB2	1:o:675:GLN:HG2	1.99	0.43
1:o:576:GLN:HB2	1:p:506:HIS:CE1	2.53	0.43
1:t:227:THR:O	1:t:227:THR:HG23	2.17	0.43
1:t:506:HIS:CE1	1:v:576:GLN:HB2	2.53	0.43
1:w:576:GLN:HB2	1:x:506:HIS:CE1	2.53	0.43
1:z:226:SER:HB2	1:z:235:THR:HG22	2.00	0.43
1:2:423:LEU:HD21	1:2:603:VAL:HG21	2.00	0.43
1:3:506:HIS:CE1	1:4:576:GLN:HB2	2.53	0.43
1:A:414:HIS:HB2	1:A:635:PHE:HE1	1.83	0.43
1:B:414:HIS:HB2	1:B:635:PHE:HE1	1.83	0.43
1:D:427:MET:SD	1:D:464:PHE:CD1	3.11	0.43
1:E:414:HIS:HB2	1:E:635:PHE:HE1	1.83	0.43
1:E:428:ASN:HB2	1:Q:344:VAL:HB	2.00	0.43
1:E:576:GLN:HB2	1:Q:506:HIS:CE1	2.53	0.43
1:F:226:SER:HB2	1:F:235:THR:HG22	2.00	0.43
1:H:344:VAL:HB	1:Y:428:ASN:HB2	2.00	0.43
1:H:415:SER:OG	1:W:623:ASP:OD1	2.28	0.43
1:J:423:LEU:HD21	1:J:603:VAL:HG21	2.00	0.43
1:K:576:GLN:HB2	1:a:506:HIS:CE1	2.53	0.43
1:L:346:ASP:HB2	1:L:617:ALA:HA	2.01	0.43
1:Q:286:ASP:OD1	1:Q:289:ARG:NH1	2.51	0.43
1:R:452:ALA:HB2	1:S:491:LYS:HE2	2.01	0.43
1:T:350:GLU:OE2	1:l:458:LYS:NZ	2.45	0.43
1:X:226:SER:HB2	1:X:235:THR:HG22	2.00	0.43
1:X:330:THR:HG22	1:X:397:ARG:HG3	1.99	0.43
1:X:346:ASP:HB2	1:X:617:ALA:HA	2.00	0.43
1:f:433:GLN:HA	1:h:349:GLN:HA	2.01	0.43
1:o:330:THR:HG22	1:o:397:ARG:HG3	1.99	0.43
1:q:452:ALA:HB2	1:r:491:LYS:HE2	2.01	0.43
1:v:286:ASP:OD1	1:v:289:ARG:NH1	2.51	0.43
1:w:414:HIS:HB2	1:w:635:PHE:HE1	1.83	0.43
1:x:346:ASP:HB2	1:x:617:ALA:HA	2.01	0.43
1:x:576:GLN:HB2	1:y:506:HIS:CE1	2.53	0.43
1:1:423:LEU:HD21	1:1:603:VAL:HG21	2.00	0.43
1:7:414:HIS:HB2	1:7:635:PHE:HE1	1.83	0.43
1:A:576:GLN:HB2	1:G:506:HIS:CE1	2.53	0.43
1:B:286:ASP:OD1	1:B:289:ARG:NH1	2.51	0.43
1:C:330:THR:HG22	1:C:397:ARG:HG3	1.99	0.43
1:D:344:VAL:HB	1:P:428:ASN:HB2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:445:GLU:OE1	1:E:445:GLU:N	2.47	0.43
1:F:346:ASP:HB2	1:F:617:ALA:HA	2.00	0.43
1:F:714:THR:O	1:G:252:LEU:HD22	2.18	0.43
1:H:414:HIS:HB2	1:H:635:PHE:HE1	1.83	0.43
1:J:330:THR:HG22	1:J:397:ARG:HG3	1.99	0.43
1:M:349:GLN:HA	1:b:433:GLN:HA	2.01	0.43
1:O:226:SER:HB2	1:O:235:THR:HG22	2.00	0.43
1:O:714:THR:O	1:P:252:LEU:HD22	2.18	0.43
1:P:226:SER:HB2	1:P:235:THR:HG22	2.00	0.43
1:T:227:THR:O	1:T:227:THR:HG23	2.17	0.43
1:U:227:THR:O	1:U:227:THR:HG23	2.17	0.43
1:V:226:SER:HB2	1:V:235:THR:HG22	2.00	0.43
1:W:276:ASN:OD1	1:W:615:ILE:N	2.46	0.43
1:c:349:GLN:HA	1:p:433:GLN:HA	2.01	0.43
1:i:344:VAL:HB	1:k:428:ASN:HB2	2.00	0.43
1:l:226:SER:HB2	1:l:235:THR:HG22	2.00	0.43
1:o:226:SER:HB2	1:o:235:THR:HG22	2.00	0.43
1:o:346:ASP:HB2	1:o:617:ALA:HA	2.00	0.43
1:r:346:ASP:HB2	1:r:617:ALA:HA	2.01	0.43
1:t:252:LEU:HD22	1:y:714:THR:O	2.18	0.43
1:x:253:ARG:NH2	1:x:379:GLN:HE22	2.00	0.43
1:x:286:ASP:OD1	1:x:289:ARG:NH1	2.51	0.43
1:y:346:ASP:HB2	1:y:617:ALA:HA	2.00	0.43
1:5:414:HIS:HB2	1:5:635:PHE:HE1	1.83	0.43
1:5:576:GLN:HB2	1:6:506:HIS:CE1	2.53	0.43
1:B:423:LEU:HD21	1:B:603:VAL:HG21	2.00	0.43
1:C:276:ASN:OD1	1:C:615:ILE:N	2.46	0.43
1:D:423:LEU:HD21	1:D:603:VAL:HG21	2.00	0.43
1:H:576:GLN:HB2	1:W:506:HIS:CE1	2.53	0.43
1:J:414:HIS:HB2	1:J:635:PHE:HE1	1.83	0.43
1:J:433:GLN:HA	1:L:349:GLN:HA	2.01	0.43
1:J:484:LYS:HE2	1:J:557:PHE:HE2	1.82	0.43
1:Q:423:LEU:HD21	1:Q:603:VAL:HG21	2.00	0.43
1:R:576:GLN:HB2	1:S:506:HIS:CE1	2.53	0.43
1:T:414:HIS:HB2	1:T:635:PHE:HE1	1.83	0.43
1:V:423:LEU:HD21	1:V:603:VAL:HG21	2.00	0.43
1:V:433:GLN:HA	1:e:349:GLN:HA	2.01	0.43
1:X:623:ASP:OD1	1:e:415:SER:OG	2.28	0.43
1:Y:414:HIS:HB2	1:Y:635:PHE:HE1	1.83	0.43
1:Z:474:GLY:HA3	1:Z:604:TRP:HB3	2.01	0.43
1:Z:506:HIS:CE1	1:3:576:GLN:HB2	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:576:GLN:HB2	1:8:506:HIS:CE1	2.53	0.43
1:b:226:SER:HB2	1:b:235:THR:HG22	2.00	0.43
1:e:226:SER:HB2	1:e:235:THR:HG22	2.00	0.43
1:g:276:ASN:OD1	1:g:615:ILE:N	2.46	0.43
1:g:330:THR:HG22	1:g:397:ARG:HG3	1.99	0.43
1:i:423:LEU:HD21	1:i:603:VAL:HG21	2.00	0.43
1:k:423:LEU:HD21	1:k:603:VAL:HG21	2.00	0.43
1:m:227:THR:O	1:m:227:THR:HG23	2.17	0.43
1:p:226:SER:HB2	1:p:235:THR:HG22	2.00	0.43
1:p:346:ASP:HB2	1:p:617:ALA:HA	2.01	0.43
1:p:423:LEU:HD21	1:p:603:VAL:HG21	2.00	0.43
1:q:576:GLN:HB2	1:r:506:HIS:CE1	2.53	0.43
1:r:474:GLY:HA3	1:r:604:TRP:HB3	2.01	0.43
1:t:349:GLN:HA	1:v:433:GLN:HA	2.01	0.43
1:v:226:SER:HB2	1:v:235:THR:HG22	2.00	0.43
1:v:227:THR:O	1:v:227:THR:HG23	2.17	0.43
1:v:414:HIS:HB2	1:v:635:PHE:HE1	1.83	0.43
1:x:423:LEU:HD21	1:x:603:VAL:HG21	2.00	0.43
1:y:226:SER:HB2	1:y:235:THR:HG22	2.00	0.43
1:1:286:ASP:OD1	1:1:289:ARG:NH1	2.51	0.43
1:1:288:GLN:NE2	1:1:698:PHE:O	2.47	0.43
1:1:345:MET:HE3	1:1:616:TRP:HZ2	1.84	0.43
1:1:414:HIS:HB2	1:1:635:PHE:HE1	1.83	0.43
1:2:330:THR:HG22	1:2:397:ARG:HG3	1.99	0.43
1:7:345:MET:HE3	1:7:616:TRP:HZ2	1.84	0.43
1:8:474:GLY:HA3	1:8:604:TRP:HB3	2.01	0.43
1:B:345:MET:HE3	1:B:616:TRP:HZ2	1.84	0.42
1:B:605:GLN:HA	1:J:623:ASP:HB2	2.01	0.42
1:C:286:ASP:OD1	1:C:289:ARG:NH1	2.51	0.42
1:C:474:GLY:HA3	1:C:604:TRP:HB3	2.01	0.42
1:F:286:ASP:OD1	1:F:289:ARG:NH1	2.51	0.42
1:G:423:LEU:HD21	1:G:603:VAL:HG21	2.00	0.42
1:I:226:SER:HB2	1:I:235:THR:HG22	2.00	0.42
1:K:452:ALA:HB2	1:a:491:LYS:HE2	2.01	0.42
1:L:414:HIS:HB2	1:L:635:PHE:HE1	1.83	0.42
1:M:286:ASP:OD1	1:M:289:ARG:NH1	2.51	0.42
1:M:491:LYS:HB2	1:b:448:ASN:HA	2.01	0.42
1:N:286:ASP:OD1	1:N:289:ARG:NH1	2.51	0.42
1:N:423:LEU:HD21	1:N:603:VAL:HG21	2.00	0.42
1:R:658:THR:HG22	1:R:659:PHE:N	2.32	0.42
1:S:423:LEU:HD21	1:S:603:VAL:HG21	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:452:ALA:HB2	1:U:491:LYS:HE2	2.01	0.42
1:S:474:GLY:HA3	1:S:604:TRP:HB3	2.01	0.42
1:V:349:GLN:HA	1:X:433:GLN:HA	2.01	0.42
1:V:452:ALA:HB2	1:e:491:LYS:HE2	2.01	0.42
1:Y:345:MET:HE3	1:Y:616:TRP:HZ2	1.84	0.42
1:b:432:ASP:OD1	1:b:461:SER:N	2.40	0.42
1:c:226:SER:HB2	1:c:235:THR:HG22	2.00	0.42
1:c:491:LYS:HE2	1:p:452:ALA:HB2	2.01	0.42
1:d:345:MET:HE3	1:d:616:TRP:HZ2	1.84	0.42
1:g:286:ASP:OD1	1:g:289:ARG:NH1	2.51	0.42
1:g:474:GLY:HA3	1:g:604:TRP:HB3	2.01	0.42
1:i:286:ASP:OD1	1:i:289:ARG:NH1	2.51	0.42
1:i:474:GLY:HA3	1:i:604:TRP:HB3	2.01	0.42
1:j:428:ASN:HB2	1:k:344:VAL:HB	2.00	0.42
1:k:427:MET:SD	1:k:464:PHE:CD1	3.12	0.42
1:n:345:MET:HE3	1:n:616:TRP:HZ2	1.84	0.42
1:o:268:THR:OG1	1:o:366:TYR:O	2.24	0.42
1:o:433:GLN:HA	1:p:349:GLN:HA	2.01	0.42
1:p:345:MET:HE3	1:p:616:TRP:HZ2	1.84	0.42
1:q:415:SER:OG	1:r:623:ASP:OD1	2.28	0.42
1:q:605:GLN:HA	1:r:623:ASP:HB2	2.01	0.42
1:q:658:THR:HG22	1:q:659:PHE:N	2.32	0.42
1:r:452:ALA:HB2	1:s:491:LYS:HE2	2.01	0.42
1:t:423:LEU:HD21	1:t:603:VAL:HG21	2.00	0.42
1:u:226:SER:HB2	1:u:235:THR:HG22	2.00	0.42
1:u:414:HIS:HB2	1:u:635:PHE:HE1	1.83	0.42
1:w:445:GLU:OE1	1:w:445:GLU:N	2.47	0.42
1:y:286:ASP:OD1	1:y:289:ARG:NH1	2.51	0.42
1:z:330:THR:HG22	1:z:397:ARG:HG3	1.99	0.42
1:1:605:GLN:HA	1:2:623:ASP:HB2	2.01	0.42
1:2:414:HIS:HB2	1:2:635:PHE:HE1	1.83	0.42
1:3:491:LYS:HE2	1:4:452:ALA:HB2	2.01	0.42
1:5:344:VAL:HB	1:7:428:ASN:HB2	2.00	0.42
1:7:484:LYS:HE2	1:7:557:PHE:HE2	1.82	0.42
1:A:226:SER:HB2	1:A:235:THR:HG22	2.00	0.42
1:A:345:MET:HE3	1:A:616:TRP:HZ2	1.84	0.42
1:A:423:LEU:HD21	1:A:603:VAL:HG21	2.00	0.42
1:A:433:GLN:HA	1:G:349:GLN:HA	2.01	0.42
1:D:349:GLN:HA	1:P:433:GLN:HA	2.01	0.42
1:E:345:MET:HE3	1:E:616:TRP:HZ2	1.84	0.42
1:G:433:GLN:HA	1:I:349:GLN:HA	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:LEU:O	1:H:461:SER:HB3	2.20	0.42
1:H:433:GLN:HA	1:W:349:GLN:HA	2.01	0.42
1:I:414:HIS:HB2	1:I:635:PHE:HE1	1.83	0.42
1:J:345:MET:HE3	1:J:616:TRP:HZ2	1.84	0.42
1:J:452:ALA:HB2	1:L:491:LYS:HE2	2.01	0.42
1:K:491:LYS:HE2	1:8:452:ALA:HB2	2.01	0.42
1:N:474:GLY:HA3	1:N:604:TRP:HB3	2.01	0.42
1:R:349:GLN:HA	1:U:433:GLN:HA	2.01	0.42
1:R:427:MET:SD	1:R:464:PHE:CD1	3.12	0.42
1:R:474:GLY:HA3	1:R:604:TRP:HB3	2.01	0.42
1:R:605:GLN:HA	1:S:623:ASP:HB2	2.01	0.42
1:T:474:GLY:HA3	1:T:604:TRP:HB3	2.01	0.42
1:V:253:ARG:NH2	1:V:379:GLN:HE22	2.00	0.42
1:V:286:ASP:OD1	1:V:289:ARG:NH1	2.51	0.42
1:V:345:MET:HE3	1:V:616:TRP:HZ2	1.85	0.42
1:V:346:ASP:HB2	1:V:617:ALA:HA	2.01	0.42
1:W:253:ARG:NH2	1:W:379:GLN:HE22	2.00	0.42
1:X:445:GLU:OE1	1:X:445:GLU:N	2.47	0.42
1:Z:286:ASP:OD1	1:Z:289:ARG:NH1	2.51	0.42
1:c:345:MET:HE3	1:c:616:TRP:HZ2	1.85	0.42
1:e:345:MET:HE3	1:e:616:TRP:HZ2	1.85	0.42
1:f:226:SER:HB2	1:f:235:THR:HG22	2.00	0.42
1:f:448:ASN:HA	1:h:491:LYS:HB2	2.01	0.42
1:h:286:ASP:OD1	1:h:289:ARG:NH1	2.51	0.42
1:k:276:ASN:OD1	1:k:615:ILE:N	2.46	0.42
1:l:431:LEU:O	1:l:461:SER:HB3	2.20	0.42
1:l:445:GLU:OE1	1:l:445:GLU:N	2.47	0.42
1:m:345:MET:HE3	1:m:616:TRP:HZ2	1.84	0.42
1:m:414:HIS:HB2	1:m:635:PHE:HE1	1.83	0.42
1:m:423:LEU:HD21	1:m:603:VAL:HG21	2.00	0.42
1:p:253:ARG:NH2	1:p:379:GLN:HE22	2.00	0.42
1:p:286:ASP:OD1	1:p:289:ARG:NH1	2.51	0.42
1:q:349:GLN:HA	1:s:433:GLN:HA	2.01	0.42
1:q:427:MET:SD	1:q:464:PHE:CD1	3.12	0.42
1:r:423:LEU:HD21	1:r:603:VAL:HG21	2.00	0.42
1:r:431:LEU:O	1:r:461:SER:HB3	2.20	0.42
1:t:433:GLN:HA	1:u:349:GLN:HA	2.01	0.42
1:v:423:LEU:HD21	1:v:603:VAL:HG21	2.00	0.42
1:w:345:MET:HE3	1:w:616:TRP:HZ2	1.84	0.42
1:x:414:HIS:HB2	1:x:635:PHE:HE1	1.83	0.42
1:x:524:THR:HG1	1:x:560:GLU:H	1.64	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:491:LYS:HE2	1:2:452:ALA:HB2	2.01	0.42
1:2:345:MET:HE3	1:2:616:TRP:HZ2	1.84	0.42
1:4:226:SER:HB2	1:4:235:THR:HG22	2.00	0.42
1:5:431:LEU:O	1:5:461:SER:HB3	2.20	0.42
1:5:433:GLN:HA	1:6:349:GLN:HA	2.01	0.42
1:8:286:ASP:OD1	1:8:289:ARG:NH1	2.51	0.42
1:A:474:GLY:HA3	1:A:604:TRP:HB3	2.01	0.42
1:D:446:THR:O	1:N:493:PRO:HG3	2.19	0.42
1:E:431:LEU:O	1:E:461:SER:HB3	2.20	0.42
1:F:253:ARG:NH2	1:F:379:GLN:HE22	2.00	0.42
1:I:286:ASP:OD1	1:I:289:ARG:NH1	2.51	0.42
1:K:226:SER:HB2	1:K:235:THR:HG22	2.00	0.42
1:K:474:GLY:HA3	1:K:604:TRP:HB3	2.01	0.42
1:N:428:ASN:HB2	1:P:344:VAL:HB	2.00	0.42
1:O:286:ASP:OD1	1:O:289:ARG:NH1	2.51	0.42
1:O:427:MET:SD	1:O:464:PHE:CD1	3.11	0.42
1:O:431:LEU:O	1:O:461:SER:HB3	2.20	0.42
1:R:431:LEU:O	1:R:461:SER:HB3	2.20	0.42
1:S:431:LEU:O	1:S:461:SER:HB3	2.20	0.42
1:T:345:MET:HE3	1:T:616:TRP:HZ2	1.84	0.42
1:T:423:LEU:HD21	1:T:603:VAL:HG21	2.00	0.42
1:W:292:ASN:O	1:W:729:LEU:HD21	2.20	0.42
1:X:423:LEU:HD21	1:X:603:VAL:HG21	2.00	0.42
1:Z:427:MET:SD	1:Z:464:PHE:CD1	3.11	0.42
1:Z:452:ALA:HB2	1:4:491:LYS:HE2	2.01	0.42
1:b:431:LEU:O	1:b:461:SER:HB3	2.20	0.42
1:b:474:GLY:HA3	1:b:604:TRP:HB3	2.01	0.42
1:b:524:THR:HG1	1:b:560:GLU:H	1.61	0.42
1:f:431:LEU:O	1:f:461:SER:HB3	2.20	0.42
1:f:432:ASP:OD1	1:f:461:SER:N	2.40	0.42
1:f:474:GLY:HA3	1:f:604:TRP:HB3	2.01	0.42
1:g:345:MET:HE3	1:g:616:TRP:HZ2	1.85	0.42
1:j:445:GLU:OE1	1:j:445:GLU:N	2.47	0.42
1:l:427:MET:SD	1:l:464:PHE:CD1	3.12	0.42
1:m:474:GLY:HA3	1:m:604:TRP:HB3	2.01	0.42
1:q:474:GLY:HA3	1:q:604:TRP:HB3	2.01	0.42
1:u:286:ASP:OD1	1:u:289:ARG:NH1	2.51	0.42
1:v:345:MET:HE3	1:v:616:TRP:HZ2	1.85	0.42
1:w:427:MET:SD	1:w:464:PHE:CD1	3.11	0.42
1:w:431:LEU:O	1:w:461:SER:HB3	2.20	0.42
1:w:491:LYS:HB2	1:y:448:ASN:HA	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:253:ARG:NH2	1:y:379:GLN:HE22	2.00	0.42
1:z:605:GLN:HA	1:1:623:ASP:HB2	2.01	0.42
1:3:484:LYS:HE2	1:3:557:PHE:HE2	1.82	0.42
1:6:292:ASN:O	1:6:729:LEU:HD21	2.20	0.42
1:6:446:THR:O	1:7:493:PRO:HG3	2.19	0.42
1:7:423:LEU:HD21	1:7:603:VAL:HG21	2.00	0.42
1:8:427:MET:SD	1:8:464:PHE:CD1	3.11	0.42
1:A:227:THR:O	1:A:227:THR:HG23	2.17	0.42
1:B:226:SER:HB2	1:B:235:THR:HG22	2.00	0.42
1:C:345:MET:HE3	1:C:616:TRP:HZ2	1.84	0.42
1:C:491:LYS:HB2	1:M:448:ASN:HA	2.02	0.42
1:D:276:ASN:OD1	1:D:615:ILE:N	2.46	0.42
1:D:491:LYS:HB2	1:P:448:ASN:HA	2.02	0.42
1:E:491:LYS:HB2	1:F:448:ASN:HA	2.01	0.42
1:G:292:ASN:O	1:G:729:LEU:HD21	2.20	0.42
1:G:414:HIS:HB2	1:G:635:PHE:HE1	1.83	0.42
1:H:448:ASN:HA	1:W:491:LYS:HB2	2.02	0.42
1:M:218:ALA:H	1:N:400:ASN:ND2	2.14	0.42
1:M:474:GLY:HA3	1:M:604:TRP:HB3	2.02	0.42
1:O:433:GLN:HA	1:m:349:GLN:HA	2.02	0.42
1:O:445:GLU:OE1	1:O:445:GLU:N	2.47	0.42
1:O:605:GLN:HA	1:m:623:ASP:HB2	2.02	0.42
1:P:292:ASN:O	1:P:729:LEU:HD21	2.20	0.42
1:P:445:GLU:OE1	1:P:445:GLU:N	2.47	0.42
1:T:286:ASP:OD1	1:T:289:ARG:NH1	2.51	0.42
1:V:344:VAL:HB	1:X:428:ASN:HB2	2.00	0.42
1:V:431:LEU:O	1:V:461:SER:HB3	2.20	0.42
1:V:605:GLN:HA	1:e:623:ASP:HB2	2.02	0.42
1:W:345:MET:HE3	1:W:616:TRP:HZ2	1.84	0.42
1:Y:292:ASN:O	1:Y:729:LEU:HD21	2.20	0.42
1:Y:423:LEU:HD21	1:Y:603:VAL:HG21	2.00	0.42
1:Y:484:LYS:HE2	1:Y:557:PHE:HE2	1.82	0.42
1:Z:491:LYS:HB2	1:3:448:ASN:HA	2.01	0.42
1:a:292:ASN:O	1:a:729:LEU:HD21	2.20	0.42
1:a:423:LEU:HD21	1:a:603:VAL:HG21	2.00	0.42
1:a:433:GLN:HA	1:8:349:GLN:HA	2.01	0.42
1:a:448:ASN:HA	1:8:491:LYS:HB2	2.01	0.42
1:a:605:GLN:HA	1:8:623:ASP:HB2	2.01	0.42
1:c:415:SER:OG	1:o:623:ASP:OD1	2.28	0.42
1:c:623:ASP:HB2	1:p:605:GLN:HA	2.02	0.42
1:d:232:LYS:HB2	1:d:682:TRP:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:474:GLY:HA3	1:h:604:TRP:HB3	2.02	0.42
1:j:292:ASN:O	1:j:729:LEU:HD21	2.20	0.42
1:l:286:ASP:OD1	1:l:289:ARG:NH1	2.51	0.42
1:n:232:LYS:HB2	1:n:682:TRP:O	2.20	0.42
1:o:423:LEU:HD21	1:o:603:VAL:HG21	2.00	0.42
1:p:431:LEU:O	1:p:461:SER:HB3	2.20	0.42
1:q:431:LEU:O	1:q:461:SER:HB3	2.20	0.42
1:r:448:ASN:HA	1:s:491:LYS:HB2	2.02	0.42
1:r:484:LYS:HE2	1:r:557:PHE:HE2	1.82	0.42
1:s:346:ASP:HB2	1:s:617:ALA:HA	2.01	0.42
1:u:452:ALA:HB2	1:v:491:LYS:HE2	2.01	0.42
1:v:474:GLY:HA3	1:v:604:TRP:HB3	2.01	0.42
1:w:346:ASP:HB2	1:w:617:ALA:HA	2.01	0.42
1:z:349:GLN:HA	1:2:433:GLN:HA	2.02	0.42
1:z:414:HIS:HB2	1:z:635:PHE:HE1	1.83	0.42
1:3:292:ASN:O	1:3:729:LEU:HD21	2.20	0.42
1:4:474:GLY:HA3	1:4:604:TRP:HB3	2.01	0.42
1:6:253:ARG:NH2	1:6:379:GLN:HE22	2.00	0.42
1:8:276:ASN:OD1	1:8:615:ILE:N	2.46	0.42
1:A:491:LYS:HE2	1:I:452:ALA:HB2	2.01	0.42
1:A:605:GLN:HA	1:G:623:ASP:HB2	2.01	0.42
1:E:346:ASP:HB2	1:E:617:ALA:HA	2.00	0.42
1:E:427:MET:SD	1:E:464:PHE:CD1	3.12	0.42
1:F:491:LYS:HE2	1:Q:452:ALA:HB2	2.01	0.42
1:H:345:MET:HE3	1:H:616:TRP:HZ2	1.84	0.42
1:H:427:MET:SD	1:H:464:PHE:CD1	3.12	0.42
1:H:623:ASP:HB2	1:Y:605:GLN:HA	2.02	0.42
1:J:232:LYS:HB2	1:J:682:TRP:O	2.20	0.42
1:J:428:ASN:HB2	1:L:344:VAL:HB	2.00	0.42
1:L:232:LYS:HB2	1:L:682:TRP:O	2.20	0.42
1:N:414:HIS:HB2	1:N:635:PHE:HE1	1.83	0.42
1:Q:414:HIS:HB2	1:Q:635:PHE:HE1	1.83	0.42
1:S:448:ASN:HA	1:U:491:LYS:HB2	2.02	0.42
1:T:349:GLN:HA	1:l:433:GLN:HA	2.02	0.42
1:T:623:ASP:HB2	1:l:605:GLN:HA	2.02	0.42
1:U:346:ASP:HB2	1:U:617:ALA:HA	2.01	0.42
1:U:431:LEU:O	1:U:461:SER:HB3	2.20	0.42
1:V:623:ASP:HB2	1:X:605:GLN:HA	2.02	0.42
1:W:446:THR:O	1:Y:493:PRO:HG3	2.20	0.42
1:W:576:GLN:HB2	1:Y:506:HIS:CE1	2.55	0.42
1:X:474:GLY:HA3	1:X:604:TRP:HB3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:605:GLN:HA	1:4:623:ASP:HB2	2.02	0.42
1:a:414:HIS:HB2	1:a:635:PHE:HE1	1.83	0.42
1:a:484:LYS:HE2	1:a:557:PHE:HE2	1.82	0.42
1:d:605:GLN:HA	1:l:623:ASP:HB2	2.01	0.42
1:g:491:LYS:HB2	1:h:448:ASN:HA	2.02	0.42
1:m:286:ASP:OD1	1:m:289:ARG:NH1	2.51	0.42
1:o:428:ASN:HB2	1:p:344:VAL:HB	2.00	0.42
1:o:445:GLU:OE1	1:o:445:GLU:N	2.47	0.42
1:o:474:GLY:HA3	1:o:604:TRP:HB3	2.02	0.42
1:o:605:GLN:HA	1:p:623:ASP:HB2	2.02	0.42
1:q:356:PHE:HA	1:q:357:PRO:HD3	1.95	0.42
1:s:431:LEU:O	1:s:461:SER:HB3	2.20	0.42
1:t:292:ASN:O	1:t:729:LEU:HD21	2.20	0.42
1:t:623:ASP:HB2	1:v:605:GLN:HA	2.01	0.42
1:u:345:MET:HE3	1:u:616:TRP:HZ2	1.84	0.42
1:u:433:GLN:HA	1:v:349:GLN:HA	2.01	0.42
1:x:452:ALA:HB2	1:y:491:LYS:HE2	2.01	0.42
1:z:232:LYS:HB2	1:z:682:TRP:O	2.20	0.42
1:1:433:GLN:HA	1:2:349:GLN:HA	2.02	0.42
1:3:423:LEU:HD21	1:3:603:VAL:HG21	2.00	0.42
1:5:345:MET:HE3	1:5:616:TRP:HZ2	1.84	0.42
1:5:356:PHE:HA	1:5:357:PRO:HD3	1.95	0.42
1:5:427:MET:SD	1:5:464:PHE:CD1	3.12	0.42
1:5:448:ASN:HA	1:6:491:LYS:HB2	2.02	0.42
1:5:452:ALA:HB2	1:6:491:LYS:HE2	2.01	0.42
1:7:292:ASN:O	1:7:729:LEU:HD21	2.20	0.42
1:8:274:ASP:OD1	1:8:345:MET:HG3	2.20	0.42
1:B:433:GLN:HA	1:J:349:GLN:HA	2.02	0.42
1:B:623:ASP:HB2	1:L:605:GLN:HA	2.02	0.42
1:C:577:ILE:HA	1:b:505:THR:HG22	2.02	0.42
1:D:506:HIS:CE1	1:P:576:GLN:HB2	2.53	0.42
1:E:452:ALA:HB2	1:Q:491:LYS:HE2	2.01	0.42
1:E:491:LYS:HE2	1:F:452:ALA:HB2	2.02	0.42
1:E:623:ASP:HB2	1:F:605:GLN:HA	2.01	0.42
1:F:274:ASP:OD1	1:F:345:MET:HG3	2.20	0.42
1:F:623:ASP:HB2	1:Q:605:GLN:HA	2.02	0.42
1:G:474:GLY:HA3	1:G:604:TRP:HB3	2.01	0.42
1:H:226:SER:HB2	1:H:235:THR:HG22	2.00	0.42
1:H:274:ASP:OD1	1:H:345:MET:HG3	2.20	0.42
1:H:346:ASP:HB2	1:H:617:ALA:HA	2.00	0.42
1:H:349:GLN:HA	1:Y:433:GLN:HA	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:452:ALA:HB2	1:W:491:LYS:HE2	2.01	0.42
1:I:232:LYS:HB2	1:I:682:TRP:O	2.20	0.42
1:I:345:MET:HE3	1:I:616:TRP:HZ2	1.84	0.42
1:J:431:LEU:O	1:J:461:SER:HB3	2.20	0.42
1:J:474:GLY:HA3	1:J:604:TRP:HB3	2.01	0.42
1:K:506:HIS:CE1	1:8:576:GLN:HB2	2.53	0.42
1:K:623:ASP:HB2	1:8:605:GLN:HA	2.02	0.42
1:L:292:ASN:O	1:L:729:LEU:HD21	2.20	0.42
1:M:292:ASN:O	1:M:729:LEU:HD21	2.20	0.42
1:O:474:GLY:HA3	1:O:604:TRP:HB3	2.01	0.42
1:Q:474:GLY:HA3	1:Q:604:TRP:HB3	2.01	0.42
1:R:232:LYS:HB2	1:R:682:TRP:O	2.20	0.42
1:T:346:ASP:HB2	1:T:617:ALA:HA	2.00	0.42
1:T:448:ASN:HA	1:d:491:LYS:HB2	2.02	0.42
1:T:491:LYS:HE2	1:l:452:ALA:HB2	2.01	0.42
1:U:292:ASN:O	1:U:729:LEU:HD21	2.20	0.42
1:V:232:LYS:HB2	1:V:682:TRP:O	2.20	0.42
1:X:274:ASP:OD1	1:X:345:MET:HG3	2.20	0.42
1:Y:232:LYS:HB2	1:Y:682:TRP:O	2.20	0.42
1:Y:474:GLY:HA3	1:Y:604:TRP:HB3	2.01	0.42
1:Z:292:ASN:O	1:Z:729:LEU:HD21	2.20	0.42
1:Z:349:GLN:HA	1:3:433:GLN:HA	2.01	0.42
1:Z:623:ASP:HB2	1:3:605:GLN:HA	2.01	0.42
1:a:232:LYS:HB2	1:a:682:TRP:O	2.20	0.42
1:c:605:GLN:HA	1:o:623:ASP:HB2	2.01	0.42
1:e:232:LYS:HB2	1:e:682:TRP:O	2.20	0.42
1:f:505:THR:HG22	1:g:577:ILE:HA	2.02	0.42
1:h:218:ALA:H	1:i:400:ASN:ND2	2.14	0.42
1:h:232:LYS:HB2	1:h:682:TRP:O	2.20	0.42
1:h:414:HIS:HB2	1:h:635:PHE:HE1	1.83	0.42
1:i:274:ASP:OD1	1:i:345:MET:HG3	2.20	0.42
1:i:414:HIS:HB2	1:i:635:PHE:HE1	1.83	0.42
1:i:493:PRO:HG3	1:k:446:THR:O	2.20	0.42
1:j:253:ARG:NH2	1:j:379:GLN:HE22	2.00	0.42
1:l:274:ASP:OD1	1:l:345:MET:HG3	2.20	0.42
1:m:448:ASN:HA	1:n:491:LYS:HB2	2.02	0.42
1:o:274:ASP:OD1	1:o:345:MET:HG3	2.20	0.42
1:q:232:LYS:HB2	1:q:682:TRP:O	2.20	0.42
1:r:286:ASP:OD1	1:r:289:ARG:NH1	2.51	0.42
1:s:292:ASN:O	1:s:729:LEU:HD21	2.20	0.42
1:t:226:SER:HB2	1:t:235:THR:HG22	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:345:MET:HE3	1:t:616:TRP:HZ2	1.84	0.42
1:t:414:HIS:HB2	1:t:635:PHE:HE1	1.83	0.42
1:u:232:LYS:HB2	1:u:682:TRP:O	2.20	0.42
1:w:491:LYS:HE2	1:y:452:ALA:HB2	2.02	0.42
1:w:623:ASP:HB2	1:y:605:GLN:HA	2.01	0.42
1:y:274:ASP:OD1	1:y:345:MET:HG3	2.20	0.42
1:z:292:ASN:O	1:z:729:LEU:HD21	2.20	0.42
1:1:226:SER:HB2	1:1:235:THR:HG22	2.00	0.42
1:2:232:LYS:HB2	1:2:682:TRP:O	2.20	0.42
1:2:431:LEU:O	1:2:461:SER:HB3	2.20	0.42
1:2:474:GLY:HA3	1:2:604:TRP:HB3	2.01	0.42
1:3:232:LYS:HB2	1:3:682:TRP:O	2.20	0.42
1:5:226:SER:HB2	1:5:235:THR:HG22	2.00	0.42
1:5:274:ASP:OD1	1:5:345:MET:HG3	2.20	0.42
1:6:345:MET:HE3	1:6:616:TRP:HZ2	1.84	0.42
1:6:414:HIS:HB2	1:6:635:PHE:HE1	1.83	0.42
1:6:576:GLN:HB2	1:7:506:HIS:CE1	2.55	0.42
1:7:232:LYS:HB2	1:7:682:TRP:O	2.20	0.42
1:7:431:LEU:O	1:7:461:SER:HB3	2.20	0.42
1:8:292:ASN:O	1:8:729:LEU:HD21	2.20	0.42
1:A:274:ASP:OD1	1:A:345:MET:HG3	2.20	0.42
1:C:274:ASP:OD1	1:C:345:MET:HG3	2.20	0.42
1:C:505:THR:HG22	1:M:577:ILE:HA	2.02	0.42
1:E:274:ASP:OD1	1:E:345:MET:HG3	2.20	0.42
1:E:448:ASN:HA	1:Q:491:LYS:HB2	2.02	0.42
1:I:431:LEU:O	1:I:461:SER:HB3	2.20	0.42
1:M:232:LYS:HB2	1:M:682:TRP:O	2.20	0.42
1:N:253:ARG:NH2	1:N:379:GLN:HE22	2.00	0.42
1:N:345:MET:HE3	1:N:616:TRP:HZ2	1.84	0.42
1:O:274:ASP:OD1	1:O:345:MET:HG3	2.20	0.42
1:O:577:ILE:HA	1:m:505:THR:HG22	2.02	0.42
1:O:623:ASP:HB2	1:n:605:GLN:HA	2.01	0.42
1:P:346:ASP:HB2	1:P:617:ALA:HA	2.00	0.42
1:Q:292:ASN:O	1:Q:729:LEU:HD21	2.20	0.42
1:R:623:ASP:HB2	1:U:605:GLN:HA	2.02	0.42
1:S:274:ASP:OD1	1:S:345:MET:HG3	2.20	0.42
1:S:286:ASP:OD1	1:S:289:ARG:NH1	2.51	0.42
1:S:427:MET:SD	1:S:464:PHE:CD1	3.12	0.42
1:S:484:LYS:HE2	1:S:557:PHE:HE2	1.82	0.42
1:T:505:THR:HG22	1:l:577:ILE:HA	2.02	0.42
1:V:448:ASN:HA	1:e:491:LYS:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:414:HIS:HB2	1:W:635:PHE:HE1	1.83	0.42
1:X:623:ASP:HB2	1:e:605:GLN:HA	2.01	0.42
1:Y:431:LEU:O	1:Y:461:SER:HB3	2.20	0.42
1:Z:274:ASP:OD1	1:Z:345:MET:HG3	2.20	0.42
1:Z:431:LEU:O	1:Z:461:SER:HB3	2.20	0.42
1:a:274:ASP:OD1	1:a:345:MET:HG3	2.20	0.42
1:a:345:MET:HE3	1:a:616:TRP:HZ2	1.84	0.42
1:b:274:ASP:OD1	1:b:345:MET:HG3	2.20	0.42
1:c:232:LYS:HB2	1:c:682:TRP:O	2.20	0.42
1:c:431:LEU:O	1:c:461:SER:HB3	2.20	0.42
1:e:427:MET:SD	1:e:464:PHE:CD1	3.12	0.42
1:e:431:LEU:O	1:e:461:SER:HB3	2.20	0.42
1:g:274:ASP:OD1	1:g:345:MET:HG3	2.20	0.42
1:g:400:ASN:ND2	1:k:218:ALA:H	2.16	0.42
1:g:505:THR:HG22	1:h:577:ILE:HA	2.02	0.42
1:h:292:ASN:O	1:h:729:LEU:HD21	2.20	0.42
1:i:506:HIS:CE1	1:k:576:GLN:HB2	2.55	0.42
1:i:533:SER:OG	1:i:570:ASP:OD2	2.32	0.42
1:j:346:ASP:HB2	1:j:617:ALA:HA	2.00	0.42
1:k:346:ASP:HB2	1:k:617:ALA:HA	2.00	0.42
1:l:474:GLY:HA3	1:l:604:TRP:HB3	2.01	0.42
1:m:346:ASP:HB2	1:m:617:ALA:HA	2.00	0.42
1:p:232:LYS:HB2	1:p:682:TRP:O	2.20	0.42
1:p:292:ASN:O	1:p:729:LEU:HD21	2.20	0.42
1:p:427:MET:SD	1:p:464:PHE:CD1	3.11	0.42
1:q:346:ASP:HB2	1:q:617:ALA:HA	2.00	0.42
1:q:623:ASP:HB2	1:s:605:GLN:HA	2.02	0.42
1:r:274:ASP:OD1	1:r:345:MET:HG3	2.20	0.42
1:t:232:LYS:HB2	1:t:682:TRP:O	2.20	0.42
1:t:346:ASP:HB2	1:t:617:ALA:HA	2.00	0.42
1:t:474:GLY:HA3	1:t:604:TRP:HB3	2.02	0.42
1:v:274:ASP:OD1	1:v:345:MET:HG3	2.20	0.42
1:w:448:ASN:HA	1:x:491:LYS:HB2	2.02	0.42
1:x:474:GLY:HA3	1:x:604:TRP:HB3	2.01	0.42
1:x:605:GLN:HA	1:y:623:ASP:HB2	2.02	0.42
1:z:431:LEU:O	1:z:461:SER:HB3	2.20	0.42
1:3:345:MET:HE3	1:3:616:TRP:HZ2	1.84	0.42
1:7:474:GLY:HA3	1:7:604:TRP:HB3	2.01	0.42
1:8:431:LEU:O	1:8:461:SER:HB3	2.20	0.42
1:8:484:LYS:HE2	1:8:557:PHE:HE2	1.82	0.42
1:B:474:GLY:HA3	1:B:604:TRP:HB3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:ASP:HB2	1:C:617:ALA:HA	2.01	0.42
1:C:400:ASN:ND2	1:D:218:ALA:H	2.16	0.42
1:C:431:LEU:O	1:C:461:SER:HB3	2.20	0.42
1:C:605:GLN:HA	1:b:623:ASP:HB2	2.02	0.42
1:D:505:THR:HG22	1:P:577:ILE:HA	2.02	0.42
1:D:576:GLN:HB2	1:N:506:HIS:CE1	2.55	0.42
1:F:292:ASN:O	1:F:729:LEU:HD21	2.20	0.42
1:F:474:GLY:HA3	1:F:604:TRP:HB3	2.01	0.42
1:G:226:SER:HB2	1:G:235:THR:HG22	2.00	0.42
1:G:232:LYS:HB2	1:G:682:TRP:O	2.20	0.42
1:G:274:ASP:OD1	1:G:345:MET:HG3	2.20	0.42
1:G:345:MET:HE3	1:G:616:TRP:HZ2	1.84	0.42
1:G:346:ASP:HB2	1:G:617:ALA:HA	2.01	0.42
1:G:427:MET:SD	1:G:464:PHE:CD1	3.12	0.42
1:H:577:ILE:HA	1:W:505:THR:HG22	2.02	0.42
1:I:484:LYS:HE2	1:I:557:PHE:HE2	1.82	0.42
1:K:292:ASN:O	1:K:729:LEU:HD21	2.20	0.42
1:K:427:MET:SD	1:K:464:PHE:CD1	3.12	0.42
1:L:445:GLU:OE1	1:L:445:GLU:N	2.47	0.42
1:M:345:MET:HE3	1:M:616:TRP:HZ2	1.85	0.42
1:M:414:HIS:HB2	1:M:635:PHE:HE1	1.83	0.42
1:N:274:ASP:OD1	1:N:345:MET:HG3	2.20	0.42
1:O:232:LYS:HB2	1:O:682:TRP:O	2.20	0.42
1:O:491:LYS:HB2	1:n:448:ASN:HA	2.01	0.42
1:Q:445:GLU:OE1	1:Q:445:GLU:N	2.47	0.42
1:R:346:ASP:HB2	1:R:617:ALA:HA	2.00	0.42
1:R:505:THR:HG22	1:U:577:ILE:HA	2.02	0.42
1:S:345:MET:HE3	1:S:616:TRP:HZ2	1.84	0.42
1:V:292:ASN:O	1:V:729:LEU:HD21	2.20	0.42
1:W:274:ASP:OD1	1:W:345:MET:HG3	2.20	0.42
1:X:288:GLN:NE2	1:X:698:PHE:O	2.47	0.42
1:X:427:MET:SD	1:X:464:PHE:CD1	3.12	0.42
1:Z:232:LYS:HB2	1:Z:682:TRP:O	2.20	0.42
1:Z:576:GLN:HB2	1:4:506:HIS:CE1	2.53	0.42
1:c:427:MET:SD	1:c:464:PHE:CD1	3.12	0.42
1:c:491:LYS:HB2	1:p:448:ASN:HA	2.02	0.42
1:e:268:THR:OG1	1:e:366:TYR:O	2.24	0.42
1:f:274:ASP:OD1	1:f:345:MET:HG3	2.20	0.42
1:f:345:MET:HE3	1:f:616:TRP:HZ2	1.84	0.42
1:g:431:LEU:O	1:g:461:SER:HB3	2.20	0.42
1:i:288:GLN:NE2	1:i:698:PHE:O	2.47	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:445:GLU:OE1	1:k:445:GLU:N	2.47	0.42
1:k:474:GLY:HA3	1:k:604:TRP:HB3	2.01	0.42
1:l:232:LYS:HB2	1:l:682:TRP:O	2.20	0.42
1:m:431:LEU:O	1:m:461:SER:HB3	2.20	0.42
1:o:427:MET:SD	1:o:464:PHE:CD1	3.12	0.42
1:q:505:THR:HG22	1:s:577:ILE:HA	2.02	0.42
1:s:232:LYS:HB2	1:s:682:TRP:O	2.20	0.42
1:t:274:ASP:OD1	1:t:345:MET:HG3	2.20	0.42
1:t:427:MET:SD	1:t:464:PHE:CD1	3.12	0.42
1:u:431:LEU:O	1:u:461:SER:HB3	2.20	0.42
1:v:292:ASN:O	1:v:729:LEU:HD21	2.20	0.42
1:w:274:ASP:OD1	1:w:345:MET:HG3	2.20	0.42
1:w:452:ALA:HB2	1:x:491:LYS:HE2	2.01	0.42
1:x:292:ASN:O	1:x:729:LEU:HD21	2.20	0.42
1:x:445:GLU:OE1	1:x:445:GLU:N	2.47	0.42
1:y:474:GLY:HA3	1:y:604:TRP:HB3	2.01	0.42
1:1:474:GLY:HA3	1:1:604:TRP:HB3	2.01	0.42
1:2:427:MET:SD	1:2:464:PHE:CD1	3.12	0.42
1:3:274:ASP:OD1	1:3:345:MET:HG3	2.20	0.42
1:3:414:HIS:HB2	1:3:635:PHE:HE1	1.83	0.42
1:5:292:ASN:O	1:5:729:LEU:HD21	2.20	0.42
1:5:346:ASP:HB2	1:5:617:ALA:HA	2.00	0.42
1:5:623:ASP:HB2	1:7:605:GLN:HA	2.02	0.42
1:A:292:ASN:O	1:A:729:LEU:HD21	2.20	0.42
1:A:349:GLN:HA	1:I:433:GLN:HA	2.02	0.42
1:B:452:ALA:HB2	1:J:491:LYS:HE2	2.01	0.42
1:B:491:LYS:HB2	1:L:448:ASN:HA	2.02	0.42
1:D:346:ASP:HB2	1:D:617:ALA:HA	2.01	0.42
1:D:474:GLY:HA3	1:D:604:TRP:HB3	2.01	0.42
1:D:623:ASP:HB2	1:P:605:GLN:HA	2.02	0.42
1:H:292:ASN:O	1:H:729:LEU:HD21	2.20	0.42
1:J:448:ASN:HA	1:L:491:LYS:HB2	2.02	0.42
1:L:431:LEU:O	1:L:461:SER:HB3	2.20	0.42
1:M:493:PRO:HG3	1:b:446:THR:O	2.20	0.42
1:M:505:THR:HG22	1:b:577:ILE:HA	2.02	0.42
1:N:288:GLN:NE2	1:N:698:PHE:O	2.47	0.42
1:N:431:LEU:O	1:N:461:SER:HB3	2.20	0.42
1:N:533:SER:OG	1:N:570:ASP:OD2	2.32	0.42
1:O:448:ASN:HA	1:m:491:LYS:HB2	2.02	0.42
1:O:452:ALA:HB2	1:m:491:LYS:HE2	2.01	0.42
1:Q:274:ASP:OD1	1:Q:345:MET:HG3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:288:GLN:NE2	1:Q:698:PHE:O	2.47	0.42
1:R:277:ARG:NH2	1:R:279:HIS:CE1	2.88	0.42
1:R:448:ASN:HA	1:S:491:LYS:HB2	2.02	0.42
1:S:292:ASN:O	1:S:729:LEU:HD21	2.20	0.42
1:S:433:GLN:HA	1:U:349:GLN:HA	2.01	0.42
1:T:431:LEU:O	1:T:461:SER:HB3	2.20	0.42
1:T:491:LYS:HB2	1:l:448:ASN:HA	2.02	0.42
1:U:232:LYS:HB2	1:U:682:TRP:O	2.20	0.42
1:U:277:ARG:NH2	1:U:279:HIS:CE1	2.88	0.42
1:U:474:GLY:HA3	1:U:604:TRP:HB3	2.01	0.42
1:V:491:LYS:HB2	1:X:448:ASN:HA	2.02	0.42
1:W:232:LYS:HB2	1:W:682:TRP:O	2.20	0.42
1:Y:346:ASP:HB2	1:Y:617:ALA:HA	2.00	0.42
1:Z:484:LYS:HE2	1:Z:557:PHE:HE2	1.82	0.42
1:b:445:GLU:OE1	1:b:445:GLU:N	2.47	0.42
1:c:268:THR:OG1	1:c:366:TYR:O	2.24	0.42
1:c:458:LYS:NZ	1:o:350:GLU:OE2	2.44	0.42
1:d:448:ASN:HA	1:l:491:LYS:HB2	2.01	0.42
1:e:432:ASP:OD1	1:e:461:SER:N	2.40	0.42
1:f:446:THR:O	1:h:493:PRO:HG3	2.20	0.42
1:f:623:ASP:HB2	1:g:605:GLN:HA	2.02	0.42
1:g:346:ASP:HB2	1:g:617:ALA:HA	2.01	0.42
1:h:345:MET:HE3	1:h:616:TRP:HZ2	1.85	0.42
1:i:345:MET:HE3	1:i:616:TRP:HZ2	1.85	0.42
1:k:484:LYS:HE2	1:k:557:PHE:HE2	1.82	0.42
1:q:277:ARG:NH2	1:q:279:HIS:CE1	2.88	0.42
1:q:577:ILE:HA	1:r:505:THR:HG22	2.02	0.42
1:r:427:MET:SD	1:r:464:PHE:CD1	3.12	0.42
1:s:277:ARG:NH2	1:s:279:HIS:CE1	2.88	0.42
1:s:474:GLY:HA3	1:s:604:TRP:HB3	2.01	0.42
1:t:484:LYS:HE2	1:t:557:PHE:HE2	1.82	0.42
1:u:474:GLY:HA3	1:u:604:TRP:HB3	2.01	0.42
1:y:292:ASN:O	1:y:729:LEU:HD21	2.20	0.42
1:z:344:VAL:HB	1:2:428:ASN:HB2	2.00	0.42
1:z:491:LYS:HB2	1:2:448:ASN:HA	2.02	0.42
1:1:445:GLU:OE1	1:1:445:GLU:N	2.47	0.42
1:1:452:ALA:HB2	1:2:491:LYS:HE2	2.01	0.42
1:3:445:GLU:OE1	1:3:445:GLU:N	2.47	0.42
1:4:232:LYS:HB2	1:4:682:TRP:O	2.20	0.42
1:4:292:ASN:O	1:4:729:LEU:HD21	2.20	0.42
1:5:349:GLN:HA	1:7:433:GLN:HA	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:577:ILE:HA	1:6:505:THR:HG22	2.02	0.42
1:6:274:ASP:OD1	1:6:345:MET:HG3	2.20	0.42
1:8:232:LYS:HB2	1:8:682:TRP:O	2.20	0.42
1:A:234:THR:HG21	1:A:679:GLN:HE21	1.85	0.42
1:A:277:ARG:NH2	1:A:279:HIS:CE1	2.88	0.42
1:C:484:LYS:HE2	1:C:557:PHE:HE2	1.82	0.42
1:C:623:ASP:HB2	1:M:605:GLN:HA	2.02	0.42
1:D:431:LEU:O	1:D:461:SER:HB3	2.20	0.42
1:D:445:GLU:OE1	1:D:445:GLU:N	2.47	0.42
1:F:345:MET:HE3	1:F:616:TRP:HZ2	1.85	0.42
1:F:349:GLN:HA	1:Q:433:GLN:HA	2.01	0.42
1:K:232:LYS:HB2	1:K:682:TRP:O	2.20	0.42
1:M:268:THR:OG1	1:M:366:TYR:O	2.24	0.42
1:M:274:ASP:OD1	1:M:345:MET:HG3	2.20	0.42
1:N:232:LYS:HB2	1:N:682:TRP:O	2.20	0.42
1:O:484:LYS:HE2	1:O:557:PHE:HE2	1.82	0.42
1:R:274:ASP:OD1	1:R:345:MET:HG3	2.20	0.42
1:R:577:ILE:HA	1:S:505:THR:HG22	2.02	0.42
1:V:427:MET:SD	1:V:464:PHE:CD1	3.11	0.42
1:X:345:MET:HE3	1:X:616:TRP:HZ2	1.85	0.42
1:Z:414:HIS:HB2	1:Z:635:PHE:HE1	1.83	0.42
1:d:277:ARG:NH2	1:d:279:HIS:CE1	2.88	0.42
1:f:445:GLU:OE1	1:f:445:GLU:N	2.47	0.42
1:f:577:ILE:HA	1:h:505:THR:HG22	2.02	0.42
1:g:623:ASP:HB2	1:h:605:GLN:HA	2.02	0.42
1:i:232:LYS:HB2	1:i:682:TRP:O	2.20	0.42
1:i:253:ARG:NH2	1:i:379:GLN:HE22	2.00	0.42
1:i:428:ASN:HB2	1:j:344:VAL:HB	2.01	0.42
1:i:431:LEU:O	1:i:461:SER:HB3	2.20	0.42
1:n:277:ARG:NH2	1:n:279:HIS:CE1	2.88	0.42
1:o:448:ASN:HA	1:p:491:LYS:HB2	2.02	0.42
1:q:274:ASP:OD1	1:q:345:MET:HG3	2.20	0.42
1:q:448:ASN:HA	1:r:491:LYS:HB2	2.02	0.42
1:r:433:GLN:HA	1:s:349:GLN:HA	2.01	0.42
1:v:277:ARG:NH2	1:v:279:HIS:CE1	2.88	0.42
1:x:274:ASP:OD1	1:x:345:MET:HG3	2.20	0.42
1:z:448:ASN:HA	1:1:491:LYS:HB2	2.02	0.42
1:z:474:GLY:HA3	1:z:604:TRP:HB3	2.01	0.42
1:3:346:ASP:HB2	1:3:617:ALA:HA	2.00	0.42
1:4:345:MET:HE3	1:4:616:TRP:HZ2	1.84	0.42
1:6:232:LYS:HB2	1:6:682:TRP:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:234:THR:HG21	1:7:679:GLN:HE21	1.85	0.42
1:7:346:ASP:HB2	1:7:617:ALA:HA	2.01	0.42
1:A:232:LYS:HB2	1:A:682:TRP:O	2.20	0.41
1:B:445:GLU:OE1	1:B:445:GLU:N	2.47	0.41
1:C:349:GLN:HA	1:M:433:GLN:HA	2.01	0.41
1:D:391:PHE:N	1:D:391:PHE:CD1	2.88	0.41
1:D:484:LYS:HE2	1:D:557:PHE:HE2	1.82	0.41
1:F:277:ARG:NH2	1:F:279:HIS:CE1	2.88	0.41
1:F:427:MET:SD	1:F:464:PHE:CD1	3.12	0.41
1:G:484:LYS:HE2	1:G:557:PHE:HE2	1.82	0.41
1:I:474:GLY:HA3	1:I:604:TRP:HB3	2.01	0.41
1:J:277:ARG:NH2	1:J:279:HIS:CE1	2.88	0.41
1:J:427:MET:SD	1:J:464:PHE:CD1	3.12	0.41
1:K:345:MET:HE3	1:K:616:TRP:HZ2	1.84	0.41
1:L:277:ARG:NH2	1:L:279:HIS:CE1	2.88	0.41
1:M:346:ASP:HB2	1:M:617:ALA:HA	2.00	0.41
1:M:491:LYS:HE2	1:b:452:ALA:HB2	2.02	0.41
1:N:292:ASN:O	1:N:729:LEU:HD21	2.20	0.41
1:O:277:ARG:NH2	1:O:279:HIS:CE1	2.88	0.41
1:O:493:PRO:HG3	1:n:446:THR:O	2.20	0.41
1:P:234:THR:HG21	1:P:679:GLN:HE21	1.85	0.41
1:P:253:ARG:NH2	1:P:379:GLN:HE22	2.00	0.41
1:Q:232:LYS:HB2	1:Q:682:TRP:O	2.20	0.41
1:R:491:LYS:HB2	1:U:448:ASN:HA	2.02	0.41
1:V:274:ASP:OD1	1:V:345:MET:HG3	2.20	0.41
1:V:491:LYS:HE2	1:X:452:ALA:HB2	2.01	0.41
1:X:292:ASN:O	1:X:729:LEU:HD21	2.20	0.41
1:Y:234:THR:HG21	1:Y:679:GLN:HE21	1.85	0.41
1:Z:345:MET:HE3	1:Z:616:TRP:HZ2	1.84	0.41
1:a:288:GLN:NE2	1:a:698:PHE:O	2.47	0.41
1:a:431:LEU:O	1:a:461:SER:HB3	2.20	0.41
1:b:345:MET:HE3	1:b:616:TRP:HZ2	1.85	0.41
1:b:423:LEU:HD21	1:b:603:VAL:HG21	2.00	0.41
1:d:234:THR:HG21	1:d:679:GLN:HE21	1.85	0.41
1:f:452:ALA:HB2	1:h:491:LYS:HE2	2.02	0.41
1:g:349:GLN:HA	1:h:433:GLN:HA	2.01	0.41
1:h:274:ASP:OD1	1:h:345:MET:HG3	2.20	0.41
1:i:234:THR:HG21	1:i:679:GLN:HE21	1.85	0.41
1:i:292:ASN:O	1:i:729:LEU:HD21	2.20	0.41
1:i:446:THR:O	1:j:493:PRO:HG3	2.20	0.41
1:j:234:THR:HG21	1:j:679:GLN:HE21	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:431:LEU:O	1:j:461:SER:HB3	2.20	0.41
1:j:433:GLN:HA	1:k:349:GLN:HA	2.02	0.41
1:j:605:GLN:HA	1:k:623:ASP:HB2	2.02	0.41
1:k:391:PHE:CD1	1:k:391:PHE:N	2.88	0.41
1:k:431:LEU:O	1:k:461:SER:HB3	2.20	0.41
1:l:277:ARG:NH2	1:l:279:HIS:CE1	2.88	0.41
1:n:234:THR:HG21	1:n:679:GLN:HE21	1.85	0.41
1:n:292:ASN:O	1:n:729:LEU:HD21	2.20	0.41
1:o:288:GLN:NE2	1:o:698:PHE:O	2.47	0.41
1:o:577:ILE:HA	1:p:505:THR:HG22	2.02	0.41
1:r:292:ASN:O	1:r:729:LEU:HD21	2.20	0.41
1:r:345:MET:HE3	1:r:616:TRP:HZ2	1.84	0.41
1:s:427:MET:SD	1:s:464:PHE:CD1	3.12	0.41
1:u:484:LYS:HE2	1:u:557:PHE:HE2	1.82	0.41
1:v:234:THR:HG21	1:v:679:GLN:HE21	1.85	0.41
1:y:234:THR:HG21	1:y:679:GLN:HE21	1.85	0.41
1:y:345:MET:HE3	1:y:616:TRP:HZ2	1.85	0.41
1:y:427:MET:SD	1:y:464:PHE:CD1	3.12	0.41
1:z:277:ARG:NH2	1:z:279:HIS:CE1	2.88	0.41
1:z:433:GLN:HA	1:1:349:GLN:HA	2.01	0.41
1:z:445:GLU:OE1	1:z:445:GLU:N	2.47	0.41
1:1:274:ASP:OD1	1:1:345:MET:HG3	2.20	0.41
1:2:234:THR:HG21	1:2:679:GLN:HE21	1.85	0.41
1:2:274:ASP:OD1	1:2:345:MET:HG3	2.20	0.41
1:2:277:ARG:NH2	1:2:279:HIS:CE1	2.88	0.41
1:2:391:PHE:CD1	1:2:391:PHE:N	2.88	0.41
1:3:431:LEU:O	1:3:461:SER:HB3	2.20	0.41
1:8:345:MET:HE3	1:8:616:TRP:HZ2	1.84	0.41
1:8:414:HIS:HB2	1:8:635:PHE:HE1	1.83	0.41
1:B:274:ASP:OD1	1:B:345:MET:HG3	2.20	0.41
1:B:349:GLN:HA	1:L:433:GLN:HA	2.01	0.41
1:C:391:PHE:CD1	1:C:391:PHE:N	2.88	0.41
1:D:224:CYS:O	1:D:224:CYS:SG	2.79	0.41
1:D:433:GLN:HA	1:N:349:GLN:HA	2.01	0.41
1:E:234:THR:HG21	1:E:679:GLN:HE21	1.85	0.41
1:E:425:ARG:HD3	1:E:425:ARG:HA	1.90	0.41
1:F:234:THR:HG21	1:F:679:GLN:HE21	1.85	0.41
1:G:391:PHE:N	1:G:391:PHE:CD1	2.89	0.41
1:H:232:LYS:HB2	1:H:682:TRP:O	2.20	0.41
1:H:474:GLY:HA3	1:H:604:TRP:HB3	2.01	0.41
1:I:391:PHE:CD1	1:I:391:PHE:N	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:234:THR:HG21	1:J:679:GLN:HE21	1.85	0.41
1:J:274:ASP:OD1	1:J:345:MET:HG3	2.20	0.41
1:J:391:PHE:CD1	1:J:391:PHE:N	2.89	0.41
1:J:415:SER:OG	1:L:623:ASP:OD1	2.28	0.41
1:K:349:GLN:HA	1:8:433:GLN:HA	2.02	0.41
1:K:577:ILE:HA	1:a:505:THR:HG22	2.02	0.41
1:L:474:GLY:HA3	1:L:604:TRP:HB3	2.01	0.41
1:O:224:CYS:O	1:O:224:CYS:SG	2.79	0.41
1:O:292:ASN:O	1:O:729:LEU:HD21	2.20	0.41
1:P:224:CYS:O	1:P:224:CYS:SG	2.79	0.41
1:R:234:THR:HG21	1:R:679:GLN:HE21	1.85	0.41
1:T:234:THR:HG21	1:T:679:GLN:HE21	1.85	0.41
1:T:391:PHE:N	1:T:391:PHE:CD1	2.88	0.41
1:U:423:LEU:HD21	1:U:603:VAL:HG21	2.00	0.41
1:U:427:MET:SD	1:U:464:PHE:CD1	3.12	0.41
1:V:277:ARG:NH2	1:V:279:HIS:CE1	2.88	0.41
1:V:505:THR:HG22	1:X:577:ILE:HA	2.02	0.41
1:X:491:LYS:HB2	1:e:448:ASN:HA	2.01	0.41
1:Z:234:THR:HG21	1:Z:679:GLN:HE21	1.85	0.41
1:Z:577:ILE:HA	1:4:505:THR:HG22	2.02	0.41
1:a:346:ASP:HB2	1:a:617:ALA:HA	2.00	0.41
1:a:445:GLU:OE1	1:a:445:GLU:N	2.47	0.41
1:d:292:ASN:O	1:d:729:LEU:HD21	2.20	0.41
1:d:446:THR:O	1:l:493:PRO:HG3	2.20	0.41
1:d:577:ILE:HA	1:l:505:THR:HG22	2.02	0.41
1:f:349:GLN:HA	1:g:433:GLN:HA	2.01	0.41
1:f:423:LEU:HD21	1:f:603:VAL:HG21	2.00	0.41
1:g:391:PHE:CD1	1:g:391:PHE:N	2.88	0.41
1:g:484:LYS:HE2	1:g:557:PHE:HE2	1.82	0.41
1:j:345:MET:HE3	1:j:616:TRP:HZ2	1.85	0.41
1:k:274:ASP:OD1	1:k:345:MET:HG3	2.20	0.41
1:l:224:CYS:SG	1:l:224:CYS:O	2.79	0.41
1:l:380:THR:H	1:l:383:ASN:HD22	1.69	0.41
1:m:234:THR:HG21	1:m:679:GLN:HE21	1.85	0.41
1:o:292:ASN:O	1:o:729:LEU:HD21	2.20	0.41
1:o:345:MET:HE3	1:o:616:TRP:HZ2	1.85	0.41
1:p:274:ASP:OD1	1:p:345:MET:HG3	2.20	0.41
1:p:277:ARG:NH2	1:p:279:HIS:CE1	2.88	0.41
1:t:431:LEU:O	1:t:461:SER:HB3	2.20	0.41
1:w:474:GLY:HA3	1:w:604:TRP:HB3	2.01	0.41
1:w:493:PRO:HG3	1:y:446:THR:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:232:LYS:HB2	1:x:682:TRP:O	2.20	0.41
1:x:433:GLN:HA	1:y:349:GLN:HA	2.01	0.41
1:y:277:ARG:NH2	1:y:279:HIS:CE1	2.88	0.41
1:1:234:THR:HG21	1:1:679:GLN:HE21	1.85	0.41
1:1:391:PHE:N	1:1:391:PHE:CD1	2.89	0.41
1:3:288:GLN:NE2	1:3:698:PHE:O	2.47	0.41
1:4:427:MET:SD	1:4:464:PHE:CD1	3.12	0.41
1:4:431:LEU:O	1:4:461:SER:HB3	2.20	0.41
1:7:427:MET:SD	1:7:464:PHE:CD1	3.11	0.41
1:A:452:ALA:HB2	1:G:491:LYS:HE2	2.02	0.41
1:B:234:THR:HG21	1:B:679:GLN:HE21	1.85	0.41
1:B:391:PHE:N	1:B:391:PHE:CD1	2.89	0.41
1:B:491:LYS:HE2	1:L:452:ALA:HB2	2.01	0.41
1:B:505:THR:HG22	1:L:577:ILE:HA	2.02	0.41
1:C:232:LYS:HB2	1:C:682:TRP:O	2.20	0.41
1:C:292:ASN:O	1:C:729:LEU:HD21	2.20	0.41
1:C:380:THR:H	1:C:383:ASN:HD22	1.69	0.41
1:C:433:GLN:HA	1:b:349:GLN:HA	2.01	0.41
1:C:446:THR:O	1:b:493:PRO:HG3	2.21	0.41
1:D:274:ASP:OD1	1:D:345:MET:HG3	2.20	0.41
1:D:292:ASN:O	1:D:729:LEU:HD21	2.20	0.41
1:E:433:GLN:HA	1:Q:349:GLN:HA	2.01	0.41
1:E:474:GLY:HA3	1:E:604:TRP:HB3	2.02	0.41
1:E:493:PRO:HG3	1:F:446:THR:O	2.20	0.41
1:F:391:PHE:N	1:F:391:PHE:CD1	2.89	0.41
1:F:431:LEU:O	1:F:461:SER:HB3	2.20	0.41
1:G:431:LEU:O	1:G:461:SER:HB3	2.20	0.41
1:H:224:CYS:O	1:H:224:CYS:SG	2.79	0.41
1:I:292:ASN:O	1:I:729:LEU:HD21	2.20	0.41
1:K:431:LEU:O	1:K:461:SER:HB3	2.20	0.41
1:N:234:THR:HG21	1:N:679:GLN:HE21	1.85	0.41
1:O:380:THR:H	1:O:383:ASN:HD22	1.69	0.41
1:P:345:MET:HE3	1:P:616:TRP:HZ2	1.84	0.41
1:P:474:GLY:HA3	1:P:604:TRP:HB3	2.01	0.41
1:T:577:ILE:HA	1:d:505:THR:HG22	2.02	0.41
1:X:431:LEU:O	1:X:461:SER:HB3	2.20	0.41
1:Y:427:MET:SD	1:Y:464:PHE:CD1	3.12	0.41
1:Z:391:PHE:CD1	1:Z:391:PHE:N	2.88	0.41
1:Z:433:GLN:HA	1:4:349:GLN:HA	2.02	0.41
1:c:432:ASP:OD1	1:c:461:SER:N	2.40	0.41
1:c:448:ASN:HA	1:o:491:LYS:HB2	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:474:GLY:HA3	1:e:604:TRP:HB3	2.01	0.41
1:f:232:LYS:HB2	1:f:682:TRP:O	2.20	0.41
1:f:493:PRO:HG3	1:g:446:THR:O	2.21	0.41
1:h:346:ASP:HB2	1:h:617:ALA:HA	2.00	0.41
1:j:224:CYS:O	1:j:224:CYS:SG	2.79	0.41
1:k:224:CYS:O	1:k:224:CYS:SG	2.79	0.41
1:k:292:ASN:O	1:k:729:LEU:HD21	2.20	0.41
1:k:345:MET:HE3	1:k:616:TRP:HZ2	1.84	0.41
1:l:484:LYS:HE2	1:l:557:PHE:HE2	1.82	0.41
1:m:391:PHE:N	1:m:391:PHE:CD1	2.89	0.41
1:o:452:ALA:HB2	1:p:491:LYS:HE2	2.01	0.41
1:q:234:THR:HG21	1:q:679:GLN:HE21	1.85	0.41
1:q:491:LYS:HB2	1:s:448:ASN:HA	2.02	0.41
1:r:232:LYS:HB2	1:r:682:TRP:O	2.20	0.41
1:r:234:THR:HG21	1:r:679:GLN:HE21	1.85	0.41
1:r:288:GLN:NE2	1:r:698:PHE:O	2.47	0.41
1:s:423:LEU:HD21	1:s:603:VAL:HG21	2.00	0.41
1:t:391:PHE:N	1:t:391:PHE:CD1	2.89	0.41
1:t:491:LYS:HB2	1:v:448:ASN:HA	2.01	0.41
1:t:524:THR:HG1	1:t:560:GLU:H	1.64	0.41
1:u:391:PHE:CD1	1:u:391:PHE:N	2.88	0.41
1:v:232:LYS:HB2	1:v:682:TRP:O	2.20	0.41
1:y:391:PHE:N	1:y:391:PHE:CD1	2.89	0.41
1:y:431:LEU:O	1:y:461:SER:HB3	2.20	0.41
1:2:292:ASN:O	1:2:729:LEU:HD21	2.20	0.41
1:3:474:GLY:HA3	1:3:604:TRP:HB3	2.02	0.41
1:3:505:THR:HG22	1:4:577:ILE:HA	2.02	0.41
1:4:253:ARG:NH2	1:4:379:GLN:HE22	2.00	0.41
1:5:224:CYS:O	1:5:224:CYS:SG	2.79	0.41
1:5:232:LYS:HB2	1:5:682:TRP:O	2.20	0.41
1:5:425:ARG:HA	1:5:425:ARG:HD3	1.90	0.41
1:8:234:THR:HG21	1:8:679:GLN:HE21	1.85	0.41
1:8:391:PHE:CD1	1:8:391:PHE:N	2.88	0.41
1:A:491:LYS:HB2	1:I:448:ASN:HA	2.02	0.41
1:B:446:THR:O	1:J:493:PRO:HG3	2.21	0.41
1:C:448:ASN:HA	1:b:491:LYS:HB2	2.02	0.41
1:D:345:MET:HE3	1:D:616:TRP:HZ2	1.84	0.41
1:F:491:LYS:HB2	1:Q:448:ASN:HA	2.02	0.41
1:G:448:ASN:HA	1:I:491:LYS:HB2	2.02	0.41
1:H:391:PHE:CD1	1:H:391:PHE:N	2.88	0.41
1:J:292:ASN:O	1:J:729:LEU:HD21	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:CYS:O	1:K:224:CYS:SG	2.79	0.41
1:K:277:ARG:NH2	1:K:279:HIS:CE1	2.88	0.41
1:K:505:THR:HG22	1:8:577:ILE:HA	2.02	0.41
1:L:391:PHE:N	1:L:391:PHE:CD1	2.88	0.41
1:M:224:CYS:O	1:M:224:CYS:SG	2.79	0.41
1:M:508:THR:HG1	1:M:513:TRP:CD1	2.39	0.41
1:N:277:ARG:NH2	1:N:279:HIS:CE1	2.88	0.41
1:O:505:THR:HG22	1:n:577:ILE:HA	2.02	0.41
1:P:380:THR:H	1:P:383:ASN:HD22	1.69	0.41
1:P:431:LEU:O	1:P:461:SER:HB3	2.20	0.41
1:Q:224:CYS:O	1:Q:224:CYS:SG	2.79	0.41
1:R:493:PRO:HG3	1:U:446:THR:O	2.21	0.41
1:S:232:LYS:HB2	1:S:682:TRP:O	2.20	0.41
1:S:234:THR:HG21	1:S:679:GLN:HE21	1.85	0.41
1:S:445:GLU:OE1	1:S:445:GLU:N	2.47	0.41
1:T:493:PRO:HG3	1:l:446:THR:O	2.21	0.41
1:V:234:THR:HG21	1:V:679:GLN:HE21	1.86	0.41
1:V:577:ILE:HA	1:e:505:THR:HG22	2.02	0.41
1:X:234:THR:HG21	1:X:679:GLN:HE21	1.85	0.41
1:X:350:GLU:OE2	1:e:458:LYS:NZ	2.44	0.41
1:X:505:THR:HG22	1:e:577:ILE:HA	2.02	0.41
1:Z:277:ARG:NH2	1:Z:279:HIS:CE1	2.88	0.41
1:a:474:GLY:HA3	1:a:604:TRP:HB3	2.02	0.41
1:b:232:LYS:HB2	1:b:682:TRP:O	2.20	0.41
1:c:277:ARG:NH2	1:c:279:HIS:CE1	2.88	0.41
1:c:474:GLY:HA3	1:c:604:TRP:HB3	2.01	0.41
1:c:505:THR:HG22	1:p:577:ILE:HA	2.02	0.41
1:c:508:THR:HG1	1:c:513:TRP:CD1	2.39	0.41
1:e:277:ARG:NH2	1:e:279:HIS:CE1	2.88	0.41
1:f:491:LYS:HB2	1:g:448:ASN:HA	2.02	0.41
1:g:232:LYS:HB2	1:g:682:TRP:O	2.20	0.41
1:h:268:THR:OG1	1:h:366:TYR:O	2.24	0.41
1:i:277:ARG:NH2	1:i:279:HIS:CE1	2.88	0.41
1:j:400:ASN:ND2	1:l:218:ALA:H	2.14	0.41
1:l:292:ASN:O	1:l:729:LEU:HD21	2.20	0.41
1:m:292:ASN:O	1:m:729:LEU:HD21	2.20	0.41
1:m:577:ILE:HA	1:n:505:THR:HG22	2.02	0.41
1:o:277:ARG:NH2	1:o:279:HIS:CE1	2.88	0.41
1:o:431:LEU:O	1:o:461:SER:HB3	2.20	0.41
1:p:474:GLY:HA3	1:p:604:TRP:HB3	2.01	0.41
1:q:493:PRO:HG3	1:s:446:THR:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:448:ASN:HA	1:u:491:LYS:HB2	2.02	0.41
1:t:452:ALA:HB2	1:u:491:LYS:HE2	2.01	0.41
1:t:493:PRO:HG3	1:v:446:THR:O	2.20	0.41
1:w:234:THR:HG21	1:w:679:GLN:HE21	1.85	0.41
1:w:391:PHE:CD1	1:w:391:PHE:N	2.88	0.41
1:w:433:GLN:HA	1:x:349:GLN:HA	2.01	0.41
1:z:446:THR:O	1:1:493:PRO:HG3	2.20	0.41
1:z:577:ILE:HA	1:1:505:THR:HG22	2.02	0.41
1:1:232:LYS:HB2	1:1:682:TRP:O	2.20	0.41
1:1:431:LEU:O	1:1:461:SER:HB3	2.20	0.41
1:3:349:GLN:HA	1:4:433:GLN:HA	2.01	0.41
1:4:224:CYS:O	1:4:224:CYS:SG	2.79	0.41
1:4:277:ARG:NH2	1:4:279:HIS:CE1	2.88	0.41
1:5:391:PHE:CD1	1:5:391:PHE:N	2.88	0.41
1:5:446:THR:O	1:6:493:PRO:HG3	2.21	0.41
1:5:474:GLY:HA3	1:5:604:TRP:HB3	2.01	0.41
1:8:277:ARG:NH2	1:8:279:HIS:CE1	2.88	0.41
1:8:380:THR:H	1:8:383:ASN:HD22	1.69	0.41
1:A:446:THR:O	1:G:493:PRO:HG3	2.20	0.41
1:B:232:LYS:HB2	1:B:682:TRP:O	2.20	0.41
1:B:493:PRO:HG3	1:L:446:THR:O	2.21	0.41
1:C:427:MET:SD	1:C:464:PHE:CD1	3.11	0.41
1:E:391:PHE:CD1	1:E:391:PHE:N	2.89	0.41
1:G:452:ALA:HB2	1:I:491:LYS:HE2	2.01	0.41
1:H:446:THR:O	1:W:493:PRO:HG3	2.21	0.41
1:K:234:THR:HG21	1:K:679:GLN:HE21	1.85	0.41
1:K:433:GLN:HA	1:a:349:GLN:HA	2.01	0.41
1:N:391:PHE:CD1	1:N:391:PHE:N	2.88	0.41
1:N:605:GLN:HA	1:P:623:ASP:HB2	2.02	0.41
1:O:446:THR:O	1:m:493:PRO:HG3	2.21	0.41
1:R:224:CYS:O	1:R:224:CYS:SG	2.79	0.41
1:T:277:ARG:NH2	1:T:279:HIS:CE1	2.88	0.41
1:T:446:THR:O	1:d:493:PRO:HG3	2.21	0.41
1:U:224:CYS:O	1:U:224:CYS:SG	2.79	0.41
1:V:474:GLY:HA3	1:V:604:TRP:HB3	2.01	0.41
1:X:224:CYS:O	1:X:224:CYS:SG	2.79	0.41
1:X:277:ARG:NH2	1:X:279:HIS:CE1	2.88	0.41
1:Y:224:CYS:SG	1:Y:224:CYS:O	2.79	0.41
1:Z:380:THR:H	1:Z:383:ASN:HD22	1.69	0.41
1:c:292:ASN:O	1:c:729:LEU:HD21	2.20	0.41
1:d:380:THR:H	1:d:383:ASN:HD22	1.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:391:PHE:N	1:d:391:PHE:CD1	2.88	0.41
1:e:292:ASN:O	1:e:729:LEU:HD21	2.20	0.41
1:g:292:ASN:O	1:g:729:LEU:HD21	2.20	0.41
1:h:224:CYS:O	1:h:224:CYS:SG	2.79	0.41
1:i:349:GLN:HA	1:k:433:GLN:HA	2.02	0.41
1:i:508:THR:HG1	1:i:513:TRP:CD1	2.39	0.41
1:j:274:ASP:OD1	1:j:345:MET:HG3	2.20	0.41
1:m:274:ASP:OD1	1:m:345:MET:HG3	2.20	0.41
1:m:277:ARG:NH2	1:m:279:HIS:CE1	2.88	0.41
1:m:446:THR:O	1:n:493:PRO:HG3	2.21	0.41
1:n:224:CYS:O	1:n:224:CYS:SG	2.79	0.41
1:n:474:GLY:HA3	1:n:604:TRP:HB3	2.01	0.41
1:o:224:CYS:SG	1:o:224:CYS:O	2.79	0.41
1:o:234:THR:HG21	1:o:679:GLN:HE21	1.85	0.41
1:p:234:THR:HG21	1:p:679:GLN:HE21	1.86	0.41
1:q:224:CYS:O	1:q:224:CYS:SG	2.79	0.41
1:q:345:MET:HE3	1:q:616:TRP:HZ2	1.84	0.41
1:q:391:PHE:N	1:q:391:PHE:CD1	2.89	0.41
1:q:433:GLN:HA	1:r:349:GLN:HA	2.02	0.41
1:r:445:GLU:OE1	1:r:445:GLU:N	2.47	0.41
1:s:224:CYS:O	1:s:224:CYS:SG	2.79	0.41
1:s:345:MET:HE3	1:s:616:TRP:HZ2	1.84	0.41
1:u:224:CYS:O	1:u:224:CYS:SG	2.79	0.41
1:x:224:CYS:O	1:x:224:CYS:SG	2.79	0.41
1:z:391:PHE:N	1:z:391:PHE:CD1	2.88	0.41
1:1:427:MET:SD	1:1:464:PHE:CD1	3.12	0.41
1:1:446:THR:O	1:2:493:PRO:HG3	2.21	0.41
1:3:491:LYS:HB2	1:4:448:ASN:HA	2.02	0.41
1:4:234:THR:HG21	1:4:679:GLN:HE21	1.85	0.41
1:7:224:CYS:O	1:7:224:CYS:SG	2.79	0.41
1:B:427:MET:SD	1:B:464:PHE:CD1	3.12	0.41
1:B:431:LEU:O	1:B:461:SER:HB3	2.20	0.41
1:B:448:ASN:HA	1:J:491:LYS:HB2	2.02	0.41
1:C:458:LYS:NZ	1:b:350:GLU:OE2	2.44	0.41
1:D:234:THR:HG21	1:D:679:GLN:HE21	1.85	0.41
1:D:277:ARG:NH2	1:D:279:HIS:CE1	2.88	0.41
1:D:332:GLN:HA	1:D:394:GLN:O	2.21	0.41
1:D:350:GLU:OE2	1:P:458:LYS:NZ	2.44	0.41
1:F:224:CYS:O	1:F:224:CYS:SG	2.79	0.41
1:F:493:PRO:HG3	1:Q:446:THR:O	2.21	0.41
1:G:277:ARG:NH2	1:G:279:HIS:CE1	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:560:GLU:O	1:G:562:GLU:N	2.54	0.41
1:H:445:GLU:OE1	1:H:445:GLU:N	2.47	0.41
1:I:224:CYS:SG	1:I:224:CYS:O	2.79	0.41
1:J:224:CYS:O	1:J:224:CYS:SG	2.79	0.41
1:J:605:GLN:HA	1:L:623:ASP:HB2	2.02	0.41
1:K:274:ASP:OD1	1:K:345:MET:HG3	2.20	0.41
1:K:448:ASN:HA	1:a:491:LYS:HB2	2.02	0.41
1:Q:432:ASP:OD1	1:Q:461:SER:N	2.40	0.41
1:Q:484:LYS:HE2	1:Q:557:PHE:HE2	1.82	0.41
1:R:391:PHE:N	1:R:391:PHE:CD1	2.89	0.41
1:T:224:CYS:SG	1:T:224:CYS:O	2.79	0.41
1:T:274:ASP:OD1	1:T:345:MET:HG3	2.20	0.41
1:T:292:ASN:O	1:T:729:LEU:HD21	2.20	0.41
1:T:356:PHE:HA	1:T:357:PRO:HD3	1.95	0.41
1:T:605:GLN:HA	1:d:623:ASP:HB2	2.02	0.41
1:U:234:THR:HG21	1:U:679:GLN:HE21	1.85	0.41
1:U:268:THR:OG1	1:U:366:TYR:O	2.24	0.41
1:X:491:LYS:HE2	1:e:452:ALA:HB2	2.02	0.41
1:Y:560:GLU:O	1:Y:562:GLU:N	2.54	0.41
1:Z:224:CYS:O	1:Z:224:CYS:SG	2.79	0.41
1:a:560:GLU:O	1:a:562:GLU:N	2.54	0.41
1:b:277:ARG:NH2	1:b:279:HIS:CE1	2.88	0.41
1:c:332:GLN:HA	1:c:394:GLN:O	2.21	0.41
1:c:577:ILE:HA	1:o:505:THR:HG22	2.02	0.41
1:d:224:CYS:SG	1:d:224:CYS:O	2.79	0.41
1:d:474:GLY:HA3	1:d:604:TRP:HB3	2.02	0.41
1:e:332:GLN:HA	1:e:394:GLN:O	2.21	0.41
1:f:277:ARG:NH2	1:f:279:HIS:CE1	2.88	0.41
1:i:391:PHE:CD1	1:i:391:PHE:N	2.88	0.41
1:j:474:GLY:HA3	1:j:604:TRP:HB3	2.02	0.41
1:k:277:ARG:NH2	1:k:279:HIS:CE1	2.88	0.41
1:l:345:MET:HE3	1:l:616:TRP:HZ2	1.85	0.41
1:m:224:CYS:SG	1:m:224:CYS:O	2.79	0.41
1:m:433:GLN:HA	1:n:349:GLN:HA	2.01	0.41
1:n:380:THR:H	1:n:383:ASN:HD22	1.69	0.41
1:n:391:PHE:CD1	1:n:391:PHE:N	2.88	0.41
1:p:432:ASP:OD1	1:p:461:SER:N	2.40	0.41
1:r:224:CYS:O	1:r:224:CYS:SG	2.79	0.41
1:r:425:ARG:HA	1:r:425:ARG:HD3	1.90	0.41
1:t:277:ARG:NH2	1:t:279:HIS:CE1	2.88	0.41
1:t:491:LYS:HE2	1:v:452:ALA:HB2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:560:GLU:O	1:t:562:GLU:N	2.54	0.41
1:u:277:ARG:NH2	1:u:279:HIS:CE1	2.88	0.41
1:u:292:ASN:O	1:u:729:LEU:HD21	2.20	0.41
1:u:380:THR:H	1:u:383:ASN:HD22	1.69	0.41
1:v:224:CYS:O	1:v:224:CYS:SG	2.79	0.41
1:x:484:LYS:HE2	1:x:557:PHE:HE2	1.82	0.41
1:1:268:THR:OG1	1:1:366:TYR:O	2.24	0.41
1:3:560:GLU:O	1:3:562:GLU:N	2.54	0.41
1:5:445:GLU:OE1	1:5:445:GLU:N	2.47	0.41
1:6:431:LEU:O	1:6:461:SER:HB3	2.20	0.41
1:7:332:GLN:HA	1:7:394:GLN:O	2.21	0.41
1:7:560:GLU:O	1:7:562:GLU:N	2.54	0.41
1:8:432:ASP:OD1	1:8:461:SER:N	2.41	0.41
1:A:224:CYS:SG	1:A:224:CYS:O	2.79	0.41
1:A:350:GLU:OE2	1:I:458:LYS:NZ	2.44	0.41
1:A:448:ASN:HA	1:G:491:LYS:HB2	2.02	0.41
1:C:350:GLU:OE2	1:M:458:LYS:NZ	2.44	0.41
1:C:452:ALA:HB2	1:b:491:LYS:HE2	2.01	0.41
1:D:491:LYS:HE2	1:P:452:ALA:HB2	2.01	0.41
1:E:232:LYS:HB2	1:E:682:TRP:O	2.20	0.41
1:E:446:THR:O	1:Q:493:PRO:HG3	2.21	0.41
1:G:234:THR:HG21	1:G:679:GLN:HE21	1.85	0.41
1:G:332:GLN:HA	1:G:394:GLN:O	2.21	0.41
1:H:277:ARG:NH2	1:H:279:HIS:CE1	2.88	0.41
1:H:380:THR:H	1:H:383:ASN:HD22	1.69	0.41
1:H:400:ASN:ND2	1:Z:218:ALA:H	2.16	0.41
1:H:493:PRO:HG3	1:Y:446:THR:O	2.21	0.41
1:I:234:THR:HG21	1:I:679:GLN:HE21	1.86	0.41
1:I:277:ARG:NH2	1:I:279:HIS:CE1	2.88	0.41
1:I:332:GLN:HA	1:I:394:GLN:O	2.21	0.41
1:I:380:THR:H	1:I:383:ASN:HD22	1.69	0.41
1:L:274:ASP:OD1	1:L:345:MET:HG3	2.20	0.41
1:M:431:LEU:O	1:M:461:SER:HB3	2.20	0.41
1:N:446:THR:O	1:P:493:PRO:HG3	2.21	0.41
1:O:345:MET:HE3	1:O:616:TRP:HZ2	1.84	0.41
1:P:274:ASP:OD1	1:P:345:MET:HG3	2.20	0.41
1:P:391:PHE:N	1:P:391:PHE:CD1	2.88	0.41
1:R:292:ASN:O	1:R:729:LEU:HD21	2.20	0.41
1:R:332:GLN:HA	1:R:394:GLN:O	2.21	0.41
1:R:345:MET:HE3	1:R:616:TRP:HZ2	1.84	0.41
1:R:433:GLN:HA	1:S:349:GLN:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:224:CYS:O	1:S:224:CYS:SG	2.79	0.41
1:T:433:GLN:HA	1:d:349:GLN:HA	2.02	0.41
1:U:345:MET:HE3	1:U:616:TRP:HZ2	1.84	0.41
1:V:391:PHE:CD1	1:V:391:PHE:N	2.88	0.41
1:V:446:THR:O	1:e:493:PRO:HG3	2.21	0.41
1:W:332:GLN:HA	1:W:394:GLN:O	2.21	0.41
1:X:232:LYS:HB2	1:X:682:TRP:O	2.20	0.41
1:a:391:PHE:N	1:a:391:PHE:CD1	2.88	0.41
1:b:292:ASN:O	1:b:729:LEU:HD21	2.20	0.41
1:b:391:PHE:CD1	1:b:391:PHE:N	2.88	0.41
1:c:380:THR:H	1:c:383:ASN:HD22	1.69	0.41
1:c:391:PHE:CD1	1:c:391:PHE:N	2.88	0.41
1:c:452:ALA:HB2	1:o:491:LYS:HE2	2.02	0.41
1:c:493:PRO:HG3	1:p:446:THR:O	2.21	0.41
1:c:560:GLU:O	1:c:562:GLU:N	2.54	0.41
1:d:433:GLN:HA	1:l:349:GLN:HA	2.01	0.41
1:e:560:GLU:O	1:e:562:GLU:N	2.54	0.41
1:f:350:GLU:OE2	1:g:458:LYS:NZ	2.44	0.41
1:f:391:PHE:CD1	1:f:391:PHE:N	2.88	0.41
1:f:491:LYS:HE2	1:g:452:ALA:HB2	2.01	0.41
1:h:508:THR:HG1	1:h:513:TRP:CD1	2.39	0.41
1:j:391:PHE:N	1:j:391:PHE:CD1	2.88	0.41
1:j:446:THR:O	1:k:493:PRO:HG3	2.21	0.41
1:k:332:GLN:HA	1:k:394:GLN:O	2.21	0.41
1:p:391:PHE:CD1	1:p:391:PHE:N	2.88	0.41
1:r:605:GLN:HA	1:s:623:ASP:HB2	2.02	0.41
1:s:234:THR:HG21	1:s:679:GLN:HE21	1.85	0.41
1:u:274:ASP:OD1	1:u:345:MET:HG3	2.20	0.41
1:u:332:GLN:HA	1:u:394:GLN:O	2.21	0.41
1:v:431:LEU:O	1:v:461:SER:HB3	2.20	0.41
1:w:232:LYS:HB2	1:w:682:TRP:O	2.20	0.41
1:w:446:THR:O	1:x:493:PRO:HG3	2.21	0.41
1:w:505:THR:HG22	1:y:577:ILE:HA	2.02	0.41
1:w:533:SER:OG	1:w:570:ASP:OD2	2.32	0.41
1:w:577:ILE:HA	1:x:505:THR:HG22	2.02	0.41
1:x:446:THR:O	1:y:493:PRO:HG3	2.21	0.41
1:x:448:ASN:HA	1:y:491:LYS:HB2	2.02	0.41
1:y:224:CYS:O	1:y:224:CYS:SG	2.79	0.41
1:z:274:ASP:OD1	1:z:345:MET:HG3	2.20	0.41
1:z:452:ALA:HB2	1:l:491:LYS:HE2	2.02	0.41
1:z:623:ASP:OD1	1:2:415:SER:OG	2.28	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:448:ASN:HA	1:2:491:LYS:HB2	2.02	0.41
1:2:224:CYS:O	1:2:224:CYS:SG	2.79	0.41
1:3:234:THR:HG21	1:3:679:GLN:HE21	1.85	0.41
1:5:234:THR:HG21	1:5:679:GLN:HE21	1.85	0.41
1:5:277:ARG:NH2	1:5:279:HIS:CE1	2.88	0.41
1:5:380:THR:H	1:5:383:ASN:HD22	1.69	0.41
1:6:332:GLN:HA	1:6:394:GLN:O	2.21	0.41
1:8:224:CYS:O	1:8:224:CYS:SG	2.79	0.41
1:8:332:GLN:HA	1:8:394:GLN:O	2.21	0.41
1:A:332:GLN:HA	1:A:394:GLN:O	2.21	0.41
1:A:431:LEU:O	1:A:461:SER:HB3	2.20	0.41
1:B:292:ASN:O	1:B:729:LEU:HD21	2.20	0.41
1:B:380:THR:H	1:B:383:ASN:HD22	1.69	0.41
1:C:508:THR:HG1	1:C:513:TRP:CD1	2.39	0.41
1:D:493:PRO:HG3	1:P:446:THR:O	2.21	0.41
1:E:292:ASN:O	1:E:729:LEU:HD21	2.20	0.41
1:G:538:ILE:HG12	1:G:557:PHE:CD1	2.56	0.41
1:H:234:THR:HG21	1:H:679:GLN:HE21	1.85	0.41
1:I:274:ASP:OD1	1:I:345:MET:HG3	2.20	0.41
1:I:560:GLU:O	1:I:562:GLU:N	2.54	0.41
1:K:268:THR:OG1	1:K:366:TYR:O	2.24	0.41
1:M:623:ASP:HB2	1:b:605:GLN:HA	2.01	0.41
1:N:224:CYS:O	1:N:224:CYS:SG	2.79	0.41
1:N:433:GLN:HA	1:P:349:GLN:HA	2.02	0.41
1:O:349:GLN:HA	1:n:433:GLN:HA	2.01	0.41
1:Q:345:MET:HE3	1:Q:616:TRP:HZ2	1.84	0.41
1:Q:431:LEU:O	1:Q:461:SER:HB3	2.20	0.41
1:R:491:LYS:HE2	1:U:452:ALA:HB2	2.01	0.41
1:R:560:GLU:O	1:R:562:GLU:N	2.54	0.41
1:S:380:THR:H	1:S:383:ASN:HD22	1.69	0.41
1:W:431:LEU:O	1:W:461:SER:HB3	2.20	0.41
1:W:474:GLY:HA3	1:W:604:TRP:HB3	2.01	0.41
1:X:332:GLN:HA	1:X:394:GLN:O	2.21	0.41
1:X:560:GLU:O	1:X:562:GLU:N	2.54	0.41
1:Y:332:GLN:HA	1:Y:394:GLN:O	2.21	0.41
1:Z:332:GLN:HA	1:Z:394:GLN:O	2.21	0.41
1:a:577:ILE:HA	1:8:505:THR:HG22	2.02	0.41
1:b:380:THR:H	1:b:383:ASN:HD22	1.69	0.41
1:d:332:GLN:HA	1:d:394:GLN:O	2.21	0.41
1:d:560:GLU:O	1:d:562:GLU:N	2.54	0.41
1:e:224:CYS:O	1:e:224:CYS:SG	2.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:380:THR:H	1:e:383:ASN:HD22	1.69	0.41
1:e:391:PHE:CD1	1:e:391:PHE:N	2.88	0.41
1:f:292:ASN:O	1:f:729:LEU:HD21	2.20	0.41
1:f:380:THR:H	1:f:383:ASN:HD22	1.69	0.41
1:f:605:GLN:HA	1:h:623:ASP:HB2	2.01	0.41
1:g:350:GLU:OE2	1:h:458:LYS:NZ	2.44	0.41
1:i:224:CYS:SG	1:i:224:CYS:O	2.79	0.41
1:k:234:THR:HG21	1:k:679:GLN:HE21	1.85	0.41
1:l:391:PHE:N	1:l:391:PHE:CD1	2.88	0.41
1:n:560:GLU:O	1:n:562:GLU:N	2.54	0.41
1:o:232:LYS:HB2	1:o:682:TRP:O	2.20	0.41
1:o:560:GLU:O	1:o:562:GLU:N	2.54	0.41
1:q:292:ASN:O	1:q:729:LEU:HD21	2.20	0.41
1:q:332:GLN:HA	1:q:394:GLN:O	2.21	0.41
1:t:234:THR:HG21	1:t:679:GLN:HE21	1.85	0.41
1:t:332:GLN:HA	1:t:394:GLN:O	2.21	0.41
1:t:538:ILE:HG12	1:t:557:PHE:CD1	2.56	0.41
1:u:234:THR:HG21	1:u:679:GLN:HE21	1.86	0.41
1:u:458:LYS:NZ	1:v:350:GLU:OE2	2.44	0.41
1:u:560:GLU:O	1:u:562:GLU:N	2.54	0.41
1:v:332:GLN:HA	1:v:394:GLN:O	2.21	0.41
1:w:224:CYS:SG	1:w:224:CYS:O	2.79	0.41
1:w:425:ARG:HD3	1:w:425:ARG:HA	1.90	0.41
1:x:277:ARG:NH2	1:x:279:HIS:CE1	2.88	0.41
1:x:345:MET:HE3	1:x:616:TRP:HZ2	1.85	0.41
1:y:414:HIS:HB2	1:y:635:PHE:HE1	1.83	0.41
1:z:623:ASP:HB2	1:2:605:GLN:HA	2.02	0.41
1:1:292:ASN:O	1:1:729:LEU:HD21	2.20	0.41
1:3:380:THR:H	1:3:383:ASN:HD22	1.69	0.41
1:3:391:PHE:N	1:3:391:PHE:CD1	2.88	0.41
1:4:274:ASP:OD1	1:4:345:MET:HG3	2.20	0.41
1:5:605:GLN:HA	1:6:623:ASP:HB2	2.02	0.41
1:6:474:GLY:HA3	1:6:604:TRP:HB3	2.01	0.41
1:A:391:PHE:CD1	1:A:391:PHE:N	2.88	0.41
1:A:432:ASP:OD1	1:A:461:SER:N	2.40	0.41
1:A:505:THR:HG22	1:I:577:ILE:HA	2.02	0.41
1:B:277:ARG:NH2	1:B:279:HIS:CE1	2.88	0.41
1:B:538:ILE:HG12	1:B:557:PHE:CD1	2.56	0.41
1:C:277:ARG:NH2	1:C:279:HIS:CE1	2.88	0.41
1:C:491:LYS:HE2	1:M:452:ALA:HB2	2.01	0.41
1:C:493:PRO:HG3	1:M:446:THR:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281:HIS:HD2	1:D:615:ILE:HD11	1.86	0.41
1:E:224:CYS:O	1:E:224:CYS:SG	2.79	0.41
1:E:505:THR:HG22	1:F:577:ILE:HA	2.02	0.41
1:E:577:ILE:HA	1:Q:505:THR:HG22	2.02	0.41
1:E:605:GLN:HA	1:Q:623:ASP:HB2	2.02	0.41
1:F:232:LYS:HB2	1:F:682:TRP:O	2.20	0.41
1:F:414:HIS:HB2	1:F:635:PHE:HE1	1.83	0.41
1:F:538:ILE:HG12	1:F:557:PHE:CD1	2.56	0.41
1:F:560:GLU:O	1:F:562:GLU:N	2.54	0.41
1:G:446:THR:O	1:I:493:PRO:HG3	2.21	0.41
1:G:605:GLN:HA	1:I:623:ASP:HB2	2.02	0.41
1:H:538:ILE:HG12	1:H:557:PHE:CD1	2.56	0.41
1:H:605:GLN:HA	1:W:623:ASP:HB2	2.02	0.41
1:J:253:ARG:NH2	1:J:379:GLN:HE22	2.00	0.41
1:J:577:ILE:HA	1:L:505:THR:HG22	2.02	0.41
1:K:332:GLN:HA	1:K:394:GLN:O	2.21	0.41
1:K:391:PHE:N	1:K:391:PHE:CD1	2.89	0.41
1:K:560:GLU:O	1:K:562:GLU:N	2.54	0.41
1:L:234:THR:HG21	1:L:679:GLN:HE21	1.85	0.41
1:M:277:ARG:NH2	1:M:279:HIS:CE1	2.88	0.41
1:N:380:THR:H	1:N:383:ASN:HD22	1.69	0.41
1:N:577:ILE:HA	1:P:505:THR:HG22	2.03	0.41
1:N:708:MET:HE2	1:m:383:ASN:HB3	2.03	0.41
1:O:332:GLN:HA	1:O:394:GLN:O	2.21	0.41
1:O:391:PHE:N	1:O:391:PHE:CD1	2.88	0.41
1:P:538:ILE:HG12	1:P:557:PHE:CD1	2.56	0.41
1:P:560:GLU:O	1:P:562:GLU:N	2.54	0.41
1:Q:277:ARG:NH2	1:Q:279:HIS:CE1	2.88	0.41
1:Q:391:PHE:N	1:Q:391:PHE:CD1	2.88	0.41
1:R:538:ILE:HG12	1:R:557:PHE:CD1	2.56	0.41
1:S:425:ARG:HA	1:S:425:ARG:HD3	1.90	0.41
1:S:446:THR:O	1:U:493:PRO:HG3	2.21	0.41
1:S:538:ILE:HG12	1:S:557:PHE:CD1	2.56	0.41
1:S:605:GLN:HA	1:U:623:ASP:HB2	2.02	0.41
1:T:232:LYS:HB2	1:T:682:TRP:O	2.20	0.41
1:T:383:ASN:HB3	1:i:708:MET:HE2	2.03	0.41
1:U:274:ASP:OD1	1:U:345:MET:HG3	2.20	0.41
1:U:332:GLN:HA	1:U:394:GLN:O	2.21	0.41
1:U:538:ILE:HG12	1:U:557:PHE:CD1	2.56	0.41
1:V:432:ASP:OD1	1:V:461:SER:N	2.40	0.41
1:W:224:CYS:O	1:W:224:CYS:SG	2.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:234:THR:HG21	1:W:679:GLN:HE21	1.85	0.41
1:W:427:MET:SD	1:W:464:PHE:CD1	3.11	0.41
1:Y:380:THR:H	1:Y:383:ASN:HD22	1.69	0.41
1:Y:391:PHE:N	1:Y:391:PHE:CD1	2.88	0.41
1:Y:425:ARG:HD3	1:Y:425:ARG:HA	1.90	0.41
1:Z:432:ASP:OD1	1:Z:461:SER:N	2.41	0.41
1:Z:446:THR:O	1:4:493:PRO:HG3	2.21	0.41
1:Z:505:THR:HG22	1:3:577:ILE:HA	2.02	0.41
1:a:234:THR:HG21	1:a:679:GLN:HE21	1.85	0.41
1:a:332:GLN:HA	1:a:394:GLN:O	2.21	0.41
1:a:380:THR:H	1:a:383:ASN:HD22	1.69	0.41
1:b:224:CYS:O	1:b:224:CYS:SG	2.79	0.41
1:b:560:GLU:O	1:b:562:GLU:N	2.54	0.41
1:c:224:CYS:O	1:c:224:CYS:SG	2.79	0.41
1:c:274:ASP:OD1	1:c:345:MET:HG3	2.20	0.41
1:d:435:LEU:HA	1:d:435:LEU:HD23	1.91	0.41
1:e:508:THR:HG1	1:e:513:TRP:CD1	2.39	0.41
1:f:224:CYS:O	1:f:224:CYS:SG	2.79	0.41
1:f:560:GLU:O	1:f:562:GLU:N	2.54	0.41
1:g:332:GLN:HA	1:g:394:GLN:O	2.21	0.41
1:g:427:MET:SD	1:g:464:PHE:CD1	3.11	0.41
1:g:493:PRO:HG3	1:h:446:THR:O	2.21	0.41
1:g:508:THR:HG1	1:g:513:TRP:CD1	2.39	0.41
1:h:277:ARG:NH2	1:h:279:HIS:CE1	2.88	0.41
1:h:431:LEU:O	1:h:461:SER:HB3	2.20	0.41
1:i:380:THR:H	1:i:383:ASN:HD22	1.69	0.41
1:j:577:ILE:HA	1:k:505:THR:HG22	2.03	0.41
1:k:508:THR:HG1	1:k:513:TRP:CD1	2.39	0.41
1:m:232:LYS:HB2	1:m:682:TRP:O	2.20	0.41
1:m:281:HIS:HD2	1:m:615:ILE:HD11	1.86	0.41
1:m:356:PHE:HA	1:m:357:PRO:HD3	1.95	0.41
1:m:605:GLN:HA	1:n:623:ASP:HB2	2.02	0.41
1:n:274:ASP:OD1	1:n:345:MET:HG3	2.20	0.41
1:n:332:GLN:HA	1:n:394:GLN:O	2.21	0.41
1:o:332:GLN:HA	1:o:394:GLN:O	2.21	0.41
1:o:380:THR:H	1:o:383:ASN:HD22	1.69	0.41
1:o:391:PHE:N	1:o:391:PHE:CD1	2.88	0.41
1:o:538:ILE:HG12	1:o:557:PHE:CD1	2.56	0.41
1:q:491:LYS:HE2	1:s:452:ALA:HB2	2.01	0.41
1:q:560:GLU:O	1:q:562:GLU:N	2.54	0.41
1:r:380:THR:H	1:r:383:ASN:HD22	1.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:446:THR:O	1:s:493:PRO:HG3	2.21	0.41
1:r:538:ILE:HG12	1:r:557:PHE:CD1	2.56	0.41
1:s:538:ILE:HG12	1:s:557:PHE:CD1	2.56	0.41
1:t:446:THR:O	1:u:493:PRO:HG3	2.21	0.41
1:t:605:GLN:HA	1:u:623:ASP:HB2	2.02	0.41
1:u:448:ASN:HA	1:v:491:LYS:HB2	2.02	0.41
1:w:277:ARG:NH2	1:w:279:HIS:CE1	2.88	0.41
1:w:292:ASN:O	1:w:729:LEU:HD21	2.20	0.41
1:w:508:THR:HG1	1:w:513:TRP:CD1	2.39	0.41
1:w:605:GLN:HA	1:x:623:ASP:HB2	2.02	0.41
1:x:431:LEU:O	1:x:461:SER:HB3	2.20	0.41
1:y:232:LYS:HB2	1:y:682:TRP:O	2.20	0.41
1:y:538:ILE:HG12	1:y:557:PHE:CD1	2.56	0.41
1:y:560:GLU:O	1:y:562:GLU:N	2.54	0.41
1:z:345:MET:HE3	1:z:616:TRP:HZ2	1.84	0.41
1:z:356:PHE:HA	1:z:357:PRO:HD3	1.95	0.41
1:z:484:LYS:HE2	1:z:557:PHE:HE2	1.82	0.41
1:1:380:THR:H	1:1:383:ASN:HD22	1.69	0.41
1:3:332:GLN:HA	1:3:394:GLN:O	2.21	0.41
1:4:332:GLN:HA	1:4:394:GLN:O	2.21	0.41
1:4:391:PHE:N	1:4:391:PHE:CD1	2.89	0.41
1:4:560:GLU:O	1:4:562:GLU:N	2.54	0.41
1:5:493:PRO:HG3	1:7:446:THR:O	2.21	0.41
1:5:538:ILE:HG12	1:5:557:PHE:CD1	2.56	0.41
1:6:224:CYS:SG	1:6:224:CYS:O	2.79	0.41
1:6:234:THR:HG21	1:6:679:GLN:HE21	1.85	0.41
1:7:274:ASP:OD1	1:7:345:MET:HG3	2.20	0.41
1:7:277:ARG:NH2	1:7:279:HIS:CE1	2.88	0.41
1:7:380:THR:H	1:7:383:ASN:HD22	1.69	0.41
1:7:391:PHE:N	1:7:391:PHE:CD1	2.88	0.41
1:A:508:THR:HG1	1:A:513:TRP:CD1	2.39	0.41
1:C:332:GLN:HA	1:C:394:GLN:O	2.21	0.41
1:D:232:LYS:HB2	1:D:682:TRP:O	2.20	0.41
1:D:508:THR:HG1	1:D:513:TRP:CD1	2.39	0.41
1:D:538:ILE:HG12	1:D:557:PHE:CD1	2.56	0.41
1:E:277:ARG:NH2	1:E:279:HIS:CE1	2.88	0.41
1:G:281:HIS:HD2	1:G:615:ILE:HD11	1.87	0.41
1:G:432:ASP:OD1	1:G:461:SER:N	2.41	0.41
1:H:332:GLN:HA	1:H:394:GLN:O	2.21	0.41
1:K:432:ASP:OD1	1:K:461:SER:N	2.40	0.41
1:K:493:PRO:HG3	1:8:446:THR:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:525:ALA:O	1:L:559:SER:OG	2.18	0.41
1:M:432:ASP:OD1	1:M:461:SER:N	2.40	0.41
1:M:538:ILE:HG12	1:M:557:PHE:CD1	2.56	0.41
1:O:508:THR:HG1	1:O:513:TRP:CD1	2.39	0.41
1:S:391:PHE:CD1	1:S:391:PHE:N	2.89	0.41
1:S:577:ILE:HA	1:U:505:THR:HG22	2.02	0.41
1:T:281:HIS:HD2	1:T:615:ILE:HD11	1.86	0.41
1:T:427:MET:SD	1:T:464:PHE:CD1	3.12	0.41
1:W:277:ARG:NH2	1:W:279:HIS:CE1	2.88	0.41
1:W:281:HIS:HD2	1:W:615:ILE:HD11	1.86	0.41
1:W:538:ILE:HG12	1:W:557:PHE:CD1	2.56	0.41
1:X:218:ALA:H	1:Y:400:ASN:ND2	2.14	0.41
1:X:380:THR:H	1:X:383:ASN:HD22	1.69	0.41
1:X:391:PHE:N	1:X:391:PHE:CD1	2.88	0.41
1:X:538:ILE:HG12	1:X:557:PHE:CD1	2.56	0.41
1:Y:274:ASP:OD1	1:Y:345:MET:HG3	2.20	0.41
1:Y:277:ARG:NH2	1:Y:279:HIS:CE1	2.88	0.41
1:c:281:HIS:HD2	1:c:615:ILE:HD11	1.86	0.41
1:d:274:ASP:OD1	1:d:345:MET:HG3	2.20	0.41
1:d:281:HIS:HD2	1:d:615:ILE:HD11	1.86	0.41
1:d:427:MET:SD	1:d:464:PHE:CD1	3.12	0.41
1:e:281:HIS:HD2	1:e:615:ILE:HD11	1.86	0.41
1:e:525:ALA:O	1:e:559:SER:OG	2.18	0.41
1:g:277:ARG:NH2	1:g:279:HIS:CE1	2.88	0.41
1:h:538:ILE:HG12	1:h:557:PHE:CD1	2.56	0.41
1:j:232:LYS:HB2	1:j:682:TRP:O	2.20	0.41
1:j:538:ILE:HG12	1:j:557:PHE:CD1	2.56	0.41
1:j:560:GLU:O	1:j:562:GLU:N	2.54	0.41
1:j:596:MET:HE1	1:k:595:ALA:HB1	2.03	0.41
1:k:281:HIS:HD2	1:k:615:ILE:HD11	1.87	0.41
1:k:538:ILE:HG12	1:k:557:PHE:CD1	2.56	0.41
1:l:332:GLN:HA	1:l:394:GLN:O	2.21	0.41
1:l:508:THR:HG1	1:l:513:TRP:CD1	2.39	0.41
1:l:538:ILE:HG12	1:l:557:PHE:CD1	2.56	0.41
1:m:427:MET:SD	1:m:464:PHE:CD1	3.12	0.41
1:n:281:HIS:HD2	1:n:615:ILE:HD11	1.86	0.41
1:n:427:MET:SD	1:n:464:PHE:CD1	3.12	0.41
1:n:435:LEU:HA	1:n:435:LEU:HD23	1.91	0.41
1:q:538:ILE:HG12	1:q:557:PHE:CD1	2.56	0.41
1:s:332:GLN:HA	1:s:394:GLN:O	2.21	0.41
1:t:281:HIS:HD2	1:t:615:ILE:HD11	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:538:ILE:HG12	1:w:557:PHE:CD1	2.56	0.41
1:w:560:GLU:O	1:w:562:GLU:N	2.54	0.41
1:x:391:PHE:N	1:x:391:PHE:CD1	2.88	0.41
1:y:332:GLN:HA	1:y:394:GLN:O	2.21	0.41
1:z:234:THR:HG21	1:z:679:GLN:HE21	1.85	0.41
1:z:276:ASN:OD1	1:z:615:ILE:N	2.46	0.41
1:z:505:THR:HG22	1:2:577:ILE:HA	2.02	0.41
1:1:538:ILE:HG12	1:1:557:PHE:CD1	2.56	0.41
1:1:577:ILE:HA	1:2:505:THR:HG22	2.02	0.41
1:4:538:ILE:HG12	1:4:557:PHE:CD1	2.56	0.41
1:6:277:ARG:NH2	1:6:279:HIS:CE1	2.88	0.41
1:6:427:MET:SD	1:6:464:PHE:CD1	3.11	0.41
1:6:538:ILE:HG12	1:6:557:PHE:CD1	2.56	0.41
1:7:425:ARG:HD3	1:7:425:ARG:HA	1.90	0.41
1:A:288:GLN:NE2	1:A:698:PHE:O	2.47	0.40
1:C:224:CYS:O	1:C:224:CYS:SG	2.79	0.40
1:C:281:HIS:HD2	1:C:615:ILE:HD11	1.87	0.40
1:E:281:HIS:HD2	1:E:615:ILE:HD11	1.86	0.40
1:E:560:GLU:O	1:E:562:GLU:N	2.54	0.40
1:F:332:GLN:HA	1:F:394:GLN:O	2.21	0.40
1:G:224:CYS:O	1:G:224:CYS:SG	2.79	0.40
1:G:425:ARG:HA	1:G:425:ARG:HD3	1.90	0.40
1:H:560:GLU:O	1:H:562:GLU:N	2.54	0.40
1:J:332:GLN:HA	1:J:394:GLN:O	2.21	0.40
1:K:538:ILE:HG12	1:K:557:PHE:CD1	2.56	0.40
1:L:345:MET:HE3	1:L:616:TRP:HZ2	1.84	0.40
1:O:538:ILE:HG12	1:O:557:PHE:CD1	2.56	0.40
1:P:232:LYS:HB2	1:P:682:TRP:O	2.20	0.40
1:Q:332:GLN:HA	1:Q:394:GLN:O	2.21	0.40
1:R:446:THR:O	1:S:493:PRO:HG3	2.21	0.40
1:S:277:ARG:NH2	1:S:279:HIS:CE1	2.88	0.40
1:U:281:HIS:HD2	1:U:615:ILE:HD11	1.87	0.40
1:V:484:LYS:HE2	1:V:557:PHE:HE2	1.82	0.40
1:V:493:PRO:HG3	1:X:446:THR:O	2.21	0.40
1:X:508:THR:HG1	1:X:513:TRP:CD1	2.39	0.40
1:b:538:ILE:HG12	1:b:557:PHE:CD1	2.56	0.40
1:c:446:THR:O	1:o:493:PRO:HG3	2.20	0.40
1:d:425:ARG:HD3	1:d:425:ARG:HA	1.90	0.40
1:e:274:ASP:OD1	1:e:345:MET:HG3	2.20	0.40
1:g:218:ALA:H	1:1:400:ASN:ND2	2.16	0.40
1:g:224:CYS:SG	1:g:224:CYS:O	2.79	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:234:THR:HG21	1:g:679:GLN:HE21	1.86	0.40
1:g:281:HIS:HD2	1:g:615:ILE:HD11	1.87	0.40
1:g:491:LYS:HE2	1:h:452:ALA:HB2	2.01	0.40
1:h:432:ASP:OD1	1:h:461:SER:N	2.40	0.40
1:k:232:LYS:HB2	1:k:682:TRP:O	2.20	0.40
1:k:268:THR:OG1	1:k:366:TYR:O	2.24	0.40
1:m:508:THR:HG1	1:m:513:TRP:CD1	2.39	0.40
1:n:432:ASP:OD1	1:n:461:SER:N	2.40	0.40
1:q:446:THR:O	1:r:493:PRO:HG3	2.21	0.40
1:s:268:THR:OG1	1:s:366:TYR:O	2.24	0.40
1:s:274:ASP:OD1	1:s:345:MET:HG3	2.20	0.40
1:s:281:HIS:HD2	1:s:615:ILE:HD11	1.87	0.40
1:s:391:PHE:CD1	1:s:391:PHE:N	2.88	0.40
1:u:577:ILE:HA	1:v:505:THR:HG22	2.02	0.40
1:v:391:PHE:CD1	1:v:391:PHE:N	2.89	0.40
1:v:538:ILE:HG12	1:v:557:PHE:CD1	2.56	0.40
1:w:281:HIS:HD2	1:w:615:ILE:HD11	1.86	0.40
1:w:332:GLN:HA	1:w:394:GLN:O	2.21	0.40
1:x:427:MET:SD	1:x:464:PHE:CD1	3.12	0.40
1:x:432:ASP:OD1	1:x:461:SER:N	2.40	0.40
1:y:432:ASP:OD1	1:y:461:SER:N	2.40	0.40
1:y:445:GLU:OE1	1:y:445:GLU:N	2.47	0.40
1:z:524:THR:HG1	1:z:560:GLU:H	1.64	0.40
1:2:332:GLN:HA	1:2:394:GLN:O	2.21	0.40
1:3:493:PRO:HG3	1:4:446:THR:O	2.21	0.40
1:4:432:ASP:OD1	1:4:461:SER:N	2.40	0.40
1:5:332:GLN:HA	1:5:394:GLN:O	2.21	0.40
1:6:281:HIS:HD2	1:6:615:ILE:HD11	1.86	0.40
1:7:508:THR:HG1	1:7:513:TRP:CD1	2.39	0.40
1:A:538:ILE:HG12	1:A:557:PHE:CD1	2.56	0.40
1:B:577:ILE:HA	1:J:505:THR:HG22	2.02	0.40
1:C:538:ILE:HG12	1:C:557:PHE:CD1	2.56	0.40
1:E:332:GLN:HA	1:E:394:GLN:O	2.21	0.40
1:E:538:ILE:HG12	1:E:557:PHE:CD1	2.56	0.40
1:F:432:ASP:OD1	1:F:461:SER:N	2.40	0.40
1:J:446:THR:O	1:L:493:PRO:HG3	2.21	0.40
1:K:605:GLN:HA	1:a:623:ASP:HB2	2.02	0.40
1:L:484:LYS:HE2	1:L:557:PHE:HE2	1.82	0.40
1:M:427:MET:SD	1:M:464:PHE:CD1	3.12	0.40
1:N:538:ILE:HG12	1:N:557:PHE:CD1	2.56	0.40
1:P:533:SER:OG	1:P:570:ASP:OD2	2.32	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:538:ILE:HG12	1:Q:557:PHE:CD1	2.56	0.40
1:T:508:THR:HG1	1:T:513:TRP:CD1	2.39	0.40
1:V:538:ILE:HG12	1:V:557:PHE:CD1	2.56	0.40
1:W:391:PHE:CD1	1:W:391:PHE:N	2.88	0.40
1:W:533:SER:OG	1:W:570:ASP:OD2	2.32	0.40
1:X:484:LYS:HE2	1:X:557:PHE:HE2	1.82	0.40
1:X:493:PRO:HG3	1:e:446:THR:O	2.20	0.40
1:Z:448:ASN:HA	1:4:491:LYS:HB2	2.02	0.40
1:Z:508:THR:HG1	1:Z:513:TRP:CD1	2.40	0.40
1:a:508:THR:HG1	1:a:513:TRP:CD1	2.39	0.40
1:b:539:PHE:HD2	1:b:723:VAL:HG21	1.87	0.40
1:c:525:ALA:O	1:c:559:SER:OG	2.18	0.40
1:e:538:ILE:HG12	1:e:557:PHE:CD1	2.56	0.40
1:f:538:ILE:HG12	1:f:557:PHE:CD1	2.56	0.40
1:f:539:PHE:HD2	1:f:723:VAL:HG21	1.87	0.40
1:g:538:ILE:HG12	1:g:557:PHE:CD1	2.56	0.40
1:g:623:ASP:OD1	1:h:415:SER:OG	2.28	0.40
1:h:427:MET:SD	1:h:464:PHE:CD1	3.12	0.40
1:i:427:MET:SD	1:i:464:PHE:CD1	3.11	0.40
1:j:427:MET:SD	1:j:464:PHE:CD1	3.11	0.40
1:k:560:GLU:O	1:k:562:GLU:N	2.54	0.40
1:n:425:ARG:HD3	1:n:425:ARG:HA	1.89	0.40
1:o:446:THR:O	1:p:493:PRO:HG3	2.21	0.40
1:o:484:LYS:HE2	1:o:557:PHE:HE2	1.82	0.40
1:p:484:LYS:HE2	1:p:557:PHE:HE2	1.82	0.40
1:q:432:ASP:OD1	1:q:461:SER:N	2.40	0.40
1:r:277:ARG:NH2	1:r:279:HIS:CE1	2.88	0.40
1:r:560:GLU:O	1:r:562:GLU:N	2.54	0.40
1:r:577:ILE:HA	1:s:505:THR:HG22	2.02	0.40
1:t:224:CYS:O	1:t:224:CYS:SG	2.79	0.40
1:v:432:ASP:OD1	1:v:461:SER:N	2.40	0.40
1:v:508:THR:HG1	1:v:513:TRP:CD1	2.39	0.40
1:x:332:GLN:HA	1:x:394:GLN:O	2.21	0.40
1:x:538:ILE:HG12	1:x:557:PHE:CD1	2.56	0.40
1:z:659:PHE:CD1	1:4:364:PRO:HA	2.57	0.40
1:5:350:GLU:OE2	1:7:458:LYS:NZ	2.45	0.40
1:5:560:GLU:O	1:5:562:GLU:N	2.54	0.40
1:6:560:GLU:O	1:6:562:GLU:N	2.54	0.40
1:B:400:ASN:ND2	1:C:218:ALA:H	2.16	0.40
1:C:234:THR:HG21	1:C:679:GLN:HE21	1.86	0.40
1:C:539:PHE:HD2	1:C:723:VAL:HG21	1.87	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:508:THR:HG1	1:F:513:TRP:CD1	2.39	0.40
1:G:380:THR:H	1:G:383:ASN:HD22	1.69	0.40
1:G:539:PHE:HD2	1:G:723:VAL:HG21	1.87	0.40
1:I:508:THR:HG1	1:I:513:TRP:CD1	2.39	0.40
1:J:708:MET:HE2	1:a:383:ASN:HB3	2.04	0.40
1:K:446:THR:O	1:a:493:PRO:HG3	2.21	0.40
1:K:539:PHE:HD2	1:K:723:VAL:HG21	1.87	0.40
1:L:356:PHE:HA	1:L:357:PRO:HD3	1.95	0.40
1:M:281:HIS:HD2	1:M:615:ILE:HD11	1.87	0.40
1:N:596:MET:HE1	1:P:595:ALA:HB1	2.03	0.40
1:O:234:THR:HG21	1:O:679:GLN:HE21	1.85	0.40
1:P:277:ARG:NH2	1:P:279:HIS:CE1	2.88	0.40
1:P:356:PHE:HA	1:P:357:PRO:HD3	1.95	0.40
1:P:427:MET:SD	1:P:464:PHE:CD1	3.12	0.40
1:R:432:ASP:OD1	1:R:461:SER:N	2.40	0.40
1:S:332:GLN:HA	1:S:394:GLN:O	2.21	0.40
1:S:560:GLU:O	1:S:562:GLU:N	2.54	0.40
1:U:391:PHE:CD1	1:U:391:PHE:N	2.88	0.40
1:U:560:GLU:O	1:U:562:GLU:N	2.54	0.40
1:V:332:GLN:HA	1:V:394:GLN:O	2.21	0.40
1:W:560:GLU:O	1:W:562:GLU:N	2.54	0.40
1:b:508:THR:HG1	1:b:513:TRP:CD1	2.39	0.40
1:c:538:ILE:HG12	1:c:557:PHE:CD1	2.56	0.40
1:i:524:THR:HG1	1:i:560:GLU:H	1.64	0.40
1:k:380:THR:H	1:k:383:ASN:HD22	1.69	0.40
1:l:560:GLU:O	1:l:562:GLU:N	2.54	0.40
1:m:380:THR:H	1:m:383:ASN:HD22	1.69	0.40
1:n:431:LEU:O	1:n:461:SER:HB3	2.20	0.40
1:p:538:ILE:HG12	1:p:557:PHE:CD1	2.56	0.40
1:t:380:THR:H	1:t:383:ASN:HD22	1.69	0.40
1:t:539:PHE:HD2	1:t:723:VAL:HG21	1.87	0.40
1:u:446:THR:O	1:v:493:PRO:HG3	2.21	0.40
1:u:508:THR:HG1	1:u:513:TRP:CD1	2.39	0.40
1:u:659:PHE:CD1	1:5:364:PRO:HA	2.57	0.40
1:v:276:ASN:OD1	1:v:615:ILE:N	2.46	0.40
1:x:234:THR:HG21	1:x:679:GLN:HE21	1.85	0.40
1:x:380:THR:H	1:x:383:ASN:HD22	1.69	0.40
1:z:332:GLN:HA	1:z:394:GLN:O	2.21	0.40
1:z:435:LEU:HD23	1:z:435:LEU:HA	1.91	0.40
1:1:224:CYS:O	1:1:224:CYS:SG	2.79	0.40
1:1:277:ARG:NH2	1:1:279:HIS:CE1	2.88	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:508:THR:HG1	1:1:513:TRP:CD1	2.39	0.40
1:1:560:GLU:O	1:1:562:GLU:N	2.54	0.40
1:2:281:HIS:HD2	1:2:615:ILE:HD11	1.86	0.40
1:2:708:MET:HE2	1:3:383:ASN:HB3	2.04	0.40
1:4:539:PHE:HD2	1:4:723:VAL:HG21	1.87	0.40
1:6:391:PHE:CD1	1:6:391:PHE:N	2.88	0.40
1:6:433:GLN:HA	1:7:349:GLN:HA	2.01	0.40
1:8:560:GLU:O	1:8:562:GLU:N	2.54	0.40
1:A:435:LEU:HA	1:A:435:LEU:HD23	1.91	0.40
1:B:224:CYS:O	1:B:224:CYS:SG	2.79	0.40
1:B:560:GLU:O	1:B:562:GLU:N	2.54	0.40
1:D:560:GLU:O	1:D:562:GLU:N	2.54	0.40
1:F:505:THR:HG22	1:Q:577:ILE:HA	2.02	0.40
1:F:539:PHE:HD2	1:F:723:VAL:HG21	1.87	0.40
1:H:281:HIS:HD2	1:H:615:ILE:HD11	1.87	0.40
1:H:350:GLU:OE2	1:Y:458:LYS:NZ	2.44	0.40
1:H:364:PRO:HA	1:I:659:PHE:CD1	2.57	0.40
1:I:281:HIS:HD2	1:I:615:ILE:HD11	1.87	0.40
1:J:281:HIS:HD2	1:J:615:ILE:HD11	1.86	0.40
1:K:491:LYS:HB2	1:8:448:ASN:HA	2.02	0.40
1:L:224:CYS:SG	1:L:224:CYS:O	2.79	0.40
1:L:276:ASN:OD1	1:L:615:ILE:N	2.46	0.40
1:L:332:GLN:HA	1:L:394:GLN:O	2.21	0.40
1:L:538:ILE:HG12	1:L:557:PHE:CD1	2.56	0.40
1:L:560:GLU:O	1:L:562:GLU:N	2.54	0.40
1:N:281:HIS:HD2	1:N:615:ILE:HD11	1.86	0.40
1:N:508:THR:HG1	1:N:513:TRP:CD1	2.40	0.40
1:O:539:PHE:HD2	1:O:723:VAL:HG21	1.87	0.40
1:O:560:GLU:O	1:O:562:GLU:N	2.54	0.40
1:P:364:PRO:HA	1:Q:659:PHE:CD1	2.57	0.40
1:R:539:PHE:HD2	1:R:723:VAL:HG21	1.87	0.40
1:T:380:THR:H	1:T:383:ASN:HD22	1.69	0.40
1:U:508:THR:HG1	1:U:513:TRP:CD1	2.39	0.40
1:U:539:PHE:HD2	1:U:723:VAL:HG21	1.87	0.40
1:V:539:PHE:HD2	1:V:723:VAL:HG21	1.87	0.40
1:V:560:GLU:O	1:V:562:GLU:N	2.54	0.40
1:Y:716:GLY:HA2	1:4:251:TYR:O	2.22	0.40
1:Z:383:ASN:HB3	1:a:708:MET:HE2	2.04	0.40
1:Z:560:GLU:O	1:Z:562:GLU:N	2.54	0.40
1:a:281:HIS:HD2	1:a:615:ILE:HD11	1.86	0.40
1:e:364:PRO:HA	1:h:659:PHE:CD1	2.57	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:281:HIS:HD2	1:f:615:ILE:HD11	1.86	0.40
1:g:380:THR:H	1:g:383:ASN:HD22	1.69	0.40
1:g:539:PHE:HD2	1:g:723:VAL:HG21	1.87	0.40
1:h:281:HIS:HD2	1:h:615:ILE:HD11	1.87	0.40
1:h:560:GLU:O	1:h:562:GLU:N	2.54	0.40
1:i:433:GLN:HA	1:j:349:GLN:HA	2.03	0.40
1:i:538:ILE:HG12	1:i:557:PHE:CD1	2.56	0.40
1:j:448:ASN:HA	1:k:491:LYS:HB2	2.04	0.40
1:j:458:LYS:NZ	1:k:350:GLU:OE2	2.45	0.40
1:l:234:THR:HG21	1:l:679:GLN:HE21	1.85	0.40
1:l:539:PHE:HD2	1:l:723:VAL:HG21	1.87	0.40
1:m:538:ILE:HG12	1:m:557:PHE:CD1	2.56	0.40
1:m:539:PHE:HD2	1:m:723:VAL:HG21	1.87	0.40
1:n:445:GLU:OE1	1:n:445:GLU:N	2.47	0.40
1:o:218:ALA:H	1:7:400:ASN:ND2	2.14	0.40
1:o:376:ASN:HD21	1:o:378:ASN:ND2	2.20	0.40
1:p:332:GLN:HA	1:p:394:GLN:O	2.21	0.40
1:p:539:PHE:HD2	1:p:723:VAL:HG21	1.87	0.40
1:p:560:GLU:O	1:p:562:GLU:N	2.54	0.40
1:q:281:HIS:HD2	1:q:615:ILE:HD11	1.87	0.40
1:q:539:PHE:HD2	1:q:723:VAL:HG21	1.87	0.40
1:r:332:GLN:HA	1:r:394:GLN:O	2.21	0.40
1:s:539:PHE:HD2	1:s:723:VAL:HG21	1.87	0.40
1:s:560:GLU:O	1:s:562:GLU:N	2.54	0.40
1:t:432:ASP:OD1	1:t:461:SER:N	2.41	0.40
1:u:605:GLN:HA	1:v:623:ASP:HB2	2.02	0.40
1:v:539:PHE:HD2	1:v:723:VAL:HG21	1.87	0.40
1:x:577:ILE:HA	1:y:505:THR:HG22	2.02	0.40
1:y:508:THR:HG1	1:y:513:TRP:CD1	2.39	0.40
1:y:539:PHE:HD2	1:y:723:VAL:HG21	1.87	0.40
1:z:224:CYS:SG	1:z:224:CYS:O	2.79	0.40
1:z:538:ILE:HG12	1:z:557:PHE:CD1	2.56	0.40
1:2:253:ARG:NH2	1:2:379:GLN:HE22	2.00	0.40
1:3:281:HIS:HD2	1:3:615:ILE:HD11	1.86	0.40
1:5:281:HIS:HD2	1:5:615:ILE:HD11	1.87	0.40
1:A:382:ARG:HH22	1:I:728:TYR:HA	1.87	0.40
1:A:539:PHE:HD2	1:A:723:VAL:HG21	1.87	0.40
1:A:577:ILE:HA	1:G:505:THR:HG22	2.02	0.40
1:A:659:PHE:CD1	1:B:364:PRO:HA	2.56	0.40
1:D:458:LYS:NZ	1:N:350:GLU:OE2	2.45	0.40
1:F:356:PHE:HA	1:F:357:PRO:HD3	1.95	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:708:MET:HE2	1:W:383:ASN:HB3	2.04	0.40
1:J:560:GLU:O	1:J:562:GLU:N	2.54	0.40
1:K:251:TYR:O	1:7:716:GLY:HA2	2.22	0.40
1:L:435:LEU:HD23	1:L:435:LEU:HA	1.91	0.40
1:M:376:ASN:HD21	1:M:378:ASN:ND2	2.20	0.40
1:M:539:PHE:HD2	1:M:723:VAL:HG21	1.87	0.40
1:M:659:PHE:CD1	1:c:364:PRO:HA	2.57	0.40
1:N:427:MET:SD	1:N:464:PHE:CD1	3.11	0.40
1:N:458:LYS:NZ	1:P:350:GLU:OE2	2.45	0.40
1:Q:376:ASN:HD21	1:Q:378:ASN:ND2	2.20	0.40
1:Q:380:THR:H	1:Q:383:ASN:HD22	1.69	0.40
1:Q:427:MET:SD	1:Q:464:PHE:CD1	3.11	0.40
1:Q:539:PHE:HD2	1:Q:723:VAL:HG21	1.87	0.40
1:R:281:HIS:HD2	1:R:615:ILE:HD11	1.87	0.40
1:S:281:HIS:HD2	1:S:615:ILE:HD11	1.86	0.40
1:T:332:GLN:HA	1:T:394:GLN:O	2.21	0.40
1:T:538:ILE:HG12	1:T:557:PHE:CD1	2.56	0.40
1:T:539:PHE:HD2	1:T:723:VAL:HG21	1.87	0.40
1:W:376:ASN:HD21	1:W:378:ASN:ND2	2.20	0.40
1:W:380:THR:H	1:W:383:ASN:HD22	1.69	0.40
1:W:508:THR:HG1	1:W:513:TRP:CD1	2.40	0.40
1:X:376:ASN:HD21	1:X:378:ASN:ND2	2.20	0.40
1:Y:253:ARG:NH2	1:Y:379:GLN:HE22	2.00	0.40
1:Z:659:PHE:CD1	1:a:364:PRO:HA	2.57	0.40
1:a:452:ALA:HB2	1:8:491:LYS:HE2	2.02	0.40
1:a:649:THR:HA	1:a:650:PRO:HD3	1.99	0.40
1:b:281:HIS:HD2	1:b:615:ILE:HD11	1.86	0.40
1:c:376:ASN:HD21	1:c:378:ASN:ND2	2.20	0.40
1:d:431:LEU:O	1:d:461:SER:HB3	2.20	0.40
1:f:427:MET:SD	1:f:464:PHE:CD1	3.12	0.40
1:f:508:THR:HG1	1:f:513:TRP:CD1	2.39	0.40
1:h:376:ASN:HD21	1:h:378:ASN:ND2	2.20	0.40
1:h:539:PHE:HD2	1:h:723:VAL:HG21	1.87	0.40
1:i:268:THR:OG1	1:i:366:TYR:O	2.24	0.40
1:i:281:HIS:HD2	1:i:615:ILE:HD11	1.87	0.40
1:j:277:ARG:NH2	1:j:279:HIS:CE1	2.88	0.40
1:j:524:THR:HG1	1:j:560:GLU:H	1.64	0.40
1:m:332:GLN:HA	1:m:394:GLN:O	2.21	0.40
1:n:376:ASN:HD21	1:n:378:ASN:ND2	2.20	0.40
1:t:708:MET:HE2	1:6:383:ASN:HB3	2.04	0.40
1:u:281:HIS:HD2	1:u:615:ILE:HD11	1.87	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:364:PRO:HA	1:w:659:PHE:CD1	2.57	0.40
1:v:695:GLU:OE1	1:y:285:ARG:NE	2.55	0.40
1:z:560:GLU:O	1:z:562:GLU:N	2.54	0.40
1:2:538:ILE:HG12	1:2:557:PHE:CD1	2.56	0.40
1:3:224:CYS:SG	1:3:224:CYS:O	2.79	0.40
1:3:364:PRO:HA	1:8:659:PHE:CD1	2.57	0.40
1:3:708:MET:HE2	1:8:383:ASN:HB3	2.04	0.40
1:6:376:ASN:HD21	1:6:378:ASN:ND2	2.20	0.40
1:6:380:THR:H	1:6:383:ASN:HD22	1.69	0.40
1:6:533:SER:OG	1:6:570:ASP:OD2	2.32	0.40
1:8:508:THR:HG1	1:8:513:TRP:CD1	2.40	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	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	2	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	3	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	4	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	5	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	6	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	7	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	8	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	A	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	B	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	C	519/521 (100%)	505 (97%)	14 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	E	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	F	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	G	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	H	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	I	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	J	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	K	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	L	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	M	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	N	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	O	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	P	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	Q	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	R	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	S	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	T	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	U	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	V	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	W	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	X	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	Y	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	Z	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	a	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	b	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	c	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	d	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	e	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	f	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	g	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	h	519/521 (100%)	505 (97%)	14 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	i	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	j	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	k	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	l	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	m	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	n	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	o	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	p	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	q	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	r	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	s	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	t	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	u	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	v	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	w	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	x	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	y	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	z	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
All	All	31140/31260 (100%)	30300 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	448/448 (100%)	445 (99%)	3 (1%)	76	80
1	2	448/448 (100%)	445 (99%)	3 (1%)	76	80
1	3	448/448 (100%)	445 (99%)	3 (1%)	76	80

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
1	4	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	5	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	6	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	7	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	8	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	A	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	B	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	C	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	D	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	E	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	F	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	G	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	H	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	I	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	J	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	K	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	L	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	M	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	N	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	O	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	P	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	Q	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	R	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	S	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	T	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	U	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	V	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	W	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	X	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	Y	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	Z	448/448 (100%)	445 (99%)	3 (1%)	76	80	

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
1	a	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	b	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	c	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	d	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	e	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	f	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	g	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	h	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	i	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	j	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	k	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	l	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	m	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	n	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	o	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	p	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	q	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	r	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	s	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	t	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	u	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	v	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	w	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	x	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	y	448/448 (100%)	445 (99%)	3 (1%)	76	80	
1	z	448/448 (100%)	445 (99%)	3 (1%)	76	80	
All	All	26880/26880 (100%)	26700 (99%)	180 (1%)	73	80	

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

Mol	Chain	Res	Type
1	A	360	VAL
1	A	388	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	724	ILE
1	B	360	VAL
1	B	388	LEU
1	B	724	ILE
1	C	360	VAL
1	C	388	LEU
1	C	724	ILE
1	D	360	VAL
1	D	388	LEU
1	D	724	ILE
1	E	360	VAL
1	E	388	LEU
1	E	724	ILE
1	F	360	VAL
1	F	388	LEU
1	F	724	ILE
1	G	360	VAL
1	G	388	LEU
1	G	724	ILE
1	H	360	VAL
1	H	388	LEU
1	H	724	ILE
1	I	360	VAL
1	I	388	LEU
1	I	724	ILE
1	J	360	VAL
1	J	388	LEU
1	J	724	ILE
1	K	360	VAL
1	K	388	LEU
1	K	724	ILE
1	L	360	VAL
1	L	388	LEU
1	L	724	ILE
1	M	360	VAL
1	M	388	LEU
1	M	724	ILE
1	N	360	VAL
1	N	388	LEU
1	N	724	ILE
1	O	360	VAL
1	O	388	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	O	724	ILE
1	P	360	VAL
1	P	388	LEU
1	P	724	ILE
1	Q	360	VAL
1	Q	388	LEU
1	Q	724	ILE
1	R	360	VAL
1	R	388	LEU
1	R	724	ILE
1	S	360	VAL
1	S	388	LEU
1	S	724	ILE
1	T	360	VAL
1	T	388	LEU
1	T	724	ILE
1	U	360	VAL
1	U	388	LEU
1	U	724	ILE
1	V	360	VAL
1	V	388	LEU
1	V	724	ILE
1	W	360	VAL
1	W	388	LEU
1	W	724	ILE
1	X	360	VAL
1	X	388	LEU
1	X	724	ILE
1	Y	360	VAL
1	Y	388	LEU
1	Y	724	ILE
1	Z	360	VAL
1	Z	388	LEU
1	Z	724	ILE
1	a	360	VAL
1	a	388	LEU
1	a	724	ILE
1	b	360	VAL
1	b	388	LEU
1	b	724	ILE
1	c	360	VAL
1	c	388	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	c	724	ILE
1	d	360	VAL
1	d	388	LEU
1	d	724	ILE
1	e	360	VAL
1	e	388	LEU
1	e	724	ILE
1	f	360	VAL
1	f	388	LEU
1	f	724	ILE
1	g	360	VAL
1	g	388	LEU
1	g	724	ILE
1	h	360	VAL
1	h	388	LEU
1	h	724	ILE
1	i	360	VAL
1	i	388	LEU
1	i	724	ILE
1	j	360	VAL
1	j	388	LEU
1	j	724	ILE
1	k	360	VAL
1	k	388	LEU
1	k	724	ILE
1	l	360	VAL
1	l	388	LEU
1	l	724	ILE
1	m	360	VAL
1	m	388	LEU
1	m	724	ILE
1	n	360	VAL
1	n	388	LEU
1	n	724	ILE
1	o	360	VAL
1	o	388	LEU
1	o	724	ILE
1	p	360	VAL
1	p	388	LEU
1	p	724	ILE
1	q	360	VAL
1	q	388	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	q	724	ILE
1	r	360	VAL
1	r	388	LEU
1	r	724	ILE
1	s	360	VAL
1	s	388	LEU
1	s	724	ILE
1	t	360	VAL
1	t	388	LEU
1	t	724	ILE
1	u	360	VAL
1	u	388	LEU
1	u	724	ILE
1	v	360	VAL
1	v	388	LEU
1	v	724	ILE
1	w	360	VAL
1	w	388	LEU
1	w	724	ILE
1	x	360	VAL
1	x	388	LEU
1	x	724	ILE
1	y	360	VAL
1	y	388	LEU
1	y	724	ILE
1	z	360	VAL
1	z	388	LEU
1	z	724	ILE
1	1	360	VAL
1	1	388	LEU
1	1	724	ILE
1	2	360	VAL
1	2	388	LEU
1	2	724	ILE
1	3	360	VAL
1	3	388	LEU
1	3	724	ILE
1	4	360	VAL
1	4	388	LEU
1	4	724	ILE
1	5	360	VAL
1	5	388	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	5	724	ILE
1	6	360	VAL
1	6	388	LEU
1	6	724	ILE
1	7	360	VAL
1	7	388	LEU
1	7	724	ILE
1	8	360	VAL
1	8	388	LEU
1	8	724	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1048) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	217	ASN
1	A	248	ASN
1	A	261	ASN
1	A	279	HIS
1	A	281	HIS
1	A	326	ASN
1	A	332	GLN
1	A	377	GLN
1	A	378	ASN
1	A	383	ASN
1	A	400	ASN
1	A	419	HIS
1	A	421	GLN
1	A	470	ASN
1	A	621	HIS
1	A	627	HIS
1	A	643	GLN
1	A	679	GLN
1	B	217	ASN
1	B	248	ASN
1	B	261	ASN
1	B	281	HIS
1	B	326	ASN
1	B	332	GLN
1	B	376	ASN
1	B	377	GLN
1	B	383	ASN
1	B	400	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	419	HIS
1	B	421	GLN
1	B	470	ASN
1	B	511	ASN
1	B	621	HIS
1	B	627	HIS
1	B	643	GLN
1	B	679	GLN
1	C	217	ASN
1	C	248	ASN
1	C	261	ASN
1	C	281	HIS
1	C	326	ASN
1	C	332	GLN
1	C	377	GLN
1	C	378	ASN
1	C	383	ASN
1	C	400	ASN
1	C	419	HIS
1	C	421	GLN
1	C	470	ASN
1	C	511	ASN
1	C	621	HIS
1	C	627	HIS
1	C	643	GLN
1	C	679	GLN
1	D	217	ASN
1	D	261	ASN
1	D	279	HIS
1	D	281	HIS
1	D	326	ASN
1	D	332	GLN
1	D	377	GLN
1	D	378	ASN
1	D	383	ASN
1	D	400	ASN
1	D	419	HIS
1	D	421	GLN
1	D	470	ASN
1	D	511	ASN
1	D	621	HIS
1	D	627	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	643	GLN
1	D	679	GLN
1	E	217	ASN
1	E	248	ASN
1	E	261	ASN
1	E	281	HIS
1	E	326	ASN
1	E	332	GLN
1	E	377	GLN
1	E	378	ASN
1	E	383	ASN
1	E	400	ASN
1	E	419	HIS
1	E	421	GLN
1	E	470	ASN
1	E	621	HIS
1	E	627	HIS
1	E	643	GLN
1	E	679	GLN
1	F	217	ASN
1	F	248	ASN
1	F	261	ASN
1	F	281	HIS
1	F	326	ASN
1	F	332	GLN
1	F	376	ASN
1	F	377	GLN
1	F	383	ASN
1	F	400	ASN
1	F	419	HIS
1	F	421	GLN
1	F	470	ASN
1	F	621	HIS
1	F	627	HIS
1	F	643	GLN
1	F	679	GLN
1	G	217	ASN
1	G	248	ASN
1	G	261	ASN
1	G	281	HIS
1	G	326	ASN
1	G	332	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	376	ASN
1	G	377	GLN
1	G	383	ASN
1	G	400	ASN
1	G	419	HIS
1	G	421	GLN
1	G	470	ASN
1	G	621	HIS
1	G	627	HIS
1	G	643	GLN
1	G	679	GLN
1	H	217	ASN
1	H	248	ASN
1	H	261	ASN
1	H	281	HIS
1	H	326	ASN
1	H	332	GLN
1	H	377	GLN
1	H	378	ASN
1	H	383	ASN
1	H	400	ASN
1	H	419	HIS
1	H	421	GLN
1	H	470	ASN
1	H	621	HIS
1	H	627	HIS
1	H	643	GLN
1	H	679	GLN
1	I	217	ASN
1	I	248	ASN
1	I	261	ASN
1	I	281	HIS
1	I	326	ASN
1	I	332	GLN
1	I	377	GLN
1	I	378	ASN
1	I	383	ASN
1	I	400	ASN
1	I	419	HIS
1	I	421	GLN
1	I	470	ASN
1	I	621	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	627	HIS
1	I	643	GLN
1	I	679	GLN
1	J	217	ASN
1	J	281	HIS
1	J	326	ASN
1	J	332	GLN
1	J	376	ASN
1	J	377	GLN
1	J	383	ASN
1	J	400	ASN
1	J	419	HIS
1	J	421	GLN
1	J	470	ASN
1	J	511	ASN
1	J	621	HIS
1	J	627	HIS
1	J	643	GLN
1	J	679	GLN
1	K	217	ASN
1	K	248	ASN
1	K	261	ASN
1	K	281	HIS
1	K	326	ASN
1	K	332	GLN
1	K	377	GLN
1	K	378	ASN
1	K	379	GLN
1	K	383	ASN
1	K	400	ASN
1	K	419	HIS
1	K	421	GLN
1	K	470	ASN
1	K	511	ASN
1	K	621	HIS
1	K	627	HIS
1	K	643	GLN
1	K	679	GLN
1	L	217	ASN
1	L	248	ASN
1	L	261	ASN
1	L	281	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	326	ASN
1	L	332	GLN
1	L	376	ASN
1	L	377	GLN
1	L	383	ASN
1	L	400	ASN
1	L	419	HIS
1	L	421	GLN
1	L	470	ASN
1	L	621	HIS
1	L	627	HIS
1	L	643	GLN
1	L	679	GLN
1	M	248	ASN
1	M	261	ASN
1	M	279	HIS
1	M	281	HIS
1	M	325	ASN
1	M	326	ASN
1	M	332	GLN
1	M	376	ASN
1	M	377	GLN
1	M	383	ASN
1	M	400	ASN
1	M	419	HIS
1	M	421	GLN
1	M	470	ASN
1	M	621	HIS
1	M	627	HIS
1	M	643	GLN
1	M	679	GLN
1	N	217	ASN
1	N	248	ASN
1	N	261	ASN
1	N	281	HIS
1	N	326	ASN
1	N	332	GLN
1	N	376	ASN
1	N	377	GLN
1	N	383	ASN
1	N	400	ASN
1	N	419	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	421	GLN
1	N	470	ASN
1	N	621	HIS
1	N	627	HIS
1	N	643	GLN
1	N	679	GLN
1	O	217	ASN
1	O	248	ASN
1	O	261	ASN
1	O	281	HIS
1	O	326	ASN
1	O	332	GLN
1	O	376	ASN
1	O	377	GLN
1	O	379	GLN
1	O	383	ASN
1	O	400	ASN
1	O	419	HIS
1	O	421	GLN
1	O	470	ASN
1	O	511	ASN
1	O	621	HIS
1	O	627	HIS
1	O	643	GLN
1	O	679	GLN
1	P	217	ASN
1	P	248	ASN
1	P	261	ASN
1	P	281	HIS
1	P	326	ASN
1	P	332	GLN
1	P	376	ASN
1	P	377	GLN
1	P	383	ASN
1	P	400	ASN
1	P	419	HIS
1	P	421	GLN
1	P	470	ASN
1	P	511	ASN
1	P	621	HIS
1	P	627	HIS
1	P	643	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	679	GLN
1	Q	217	ASN
1	Q	248	ASN
1	Q	261	ASN
1	Q	281	HIS
1	Q	326	ASN
1	Q	332	GLN
1	Q	376	ASN
1	Q	377	GLN
1	Q	383	ASN
1	Q	400	ASN
1	Q	419	HIS
1	Q	421	GLN
1	Q	470	ASN
1	Q	621	HIS
1	Q	627	HIS
1	Q	643	GLN
1	Q	679	GLN
1	R	217	ASN
1	R	248	ASN
1	R	261	ASN
1	R	281	HIS
1	R	326	ASN
1	R	332	GLN
1	R	377	GLN
1	R	378	ASN
1	R	383	ASN
1	R	400	ASN
1	R	419	HIS
1	R	421	GLN
1	R	470	ASN
1	R	511	ASN
1	R	621	HIS
1	R	627	HIS
1	R	643	GLN
1	R	679	GLN
1	S	217	ASN
1	S	248	ASN
1	S	261	ASN
1	S	281	HIS
1	S	326	ASN
1	S	332	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	S	377	GLN
1	S	378	ASN
1	S	383	ASN
1	S	400	ASN
1	S	419	HIS
1	S	421	GLN
1	S	470	ASN
1	S	621	HIS
1	S	627	HIS
1	S	643	GLN
1	S	679	GLN
1	T	217	ASN
1	T	248	ASN
1	T	261	ASN
1	T	281	HIS
1	T	326	ASN
1	T	332	GLN
1	T	376	ASN
1	T	377	GLN
1	T	383	ASN
1	T	400	ASN
1	T	419	HIS
1	T	421	GLN
1	T	470	ASN
1	T	511	ASN
1	T	621	HIS
1	T	627	HIS
1	T	643	GLN
1	T	679	GLN
1	U	217	ASN
1	U	248	ASN
1	U	261	ASN
1	U	281	HIS
1	U	326	ASN
1	U	332	GLN
1	U	377	GLN
1	U	378	ASN
1	U	383	ASN
1	U	400	ASN
1	U	419	HIS
1	U	421	GLN
1	U	470	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	U	621	HIS
1	U	627	HIS
1	U	643	GLN
1	U	679	GLN
1	V	217	ASN
1	V	248	ASN
1	V	261	ASN
1	V	281	HIS
1	V	326	ASN
1	V	332	GLN
1	V	376	ASN
1	V	377	GLN
1	V	383	ASN
1	V	400	ASN
1	V	419	HIS
1	V	421	GLN
1	V	470	ASN
1	V	621	HIS
1	V	627	HIS
1	V	643	GLN
1	V	679	GLN
1	W	217	ASN
1	W	248	ASN
1	W	261	ASN
1	W	281	HIS
1	W	326	ASN
1	W	332	GLN
1	W	377	GLN
1	W	378	ASN
1	W	383	ASN
1	W	400	ASN
1	W	419	HIS
1	W	421	GLN
1	W	470	ASN
1	W	621	HIS
1	W	627	HIS
1	W	643	GLN
1	W	679	GLN
1	X	217	ASN
1	X	248	ASN
1	X	261	ASN
1	X	281	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	X	326	ASN
1	X	332	GLN
1	X	377	GLN
1	X	378	ASN
1	X	383	ASN
1	X	400	ASN
1	X	419	HIS
1	X	421	GLN
1	X	470	ASN
1	X	511	ASN
1	X	621	HIS
1	X	627	HIS
1	X	643	GLN
1	X	679	GLN
1	Y	217	ASN
1	Y	248	ASN
1	Y	261	ASN
1	Y	281	HIS
1	Y	326	ASN
1	Y	332	GLN
1	Y	376	ASN
1	Y	377	GLN
1	Y	383	ASN
1	Y	400	ASN
1	Y	419	HIS
1	Y	421	GLN
1	Y	470	ASN
1	Y	621	HIS
1	Y	627	HIS
1	Y	643	GLN
1	Y	679	GLN
1	Z	217	ASN
1	Z	248	ASN
1	Z	261	ASN
1	Z	281	HIS
1	Z	326	ASN
1	Z	332	GLN
1	Z	376	ASN
1	Z	377	GLN
1	Z	383	ASN
1	Z	400	ASN
1	Z	419	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Z	421	GLN
1	Z	470	ASN
1	Z	621	HIS
1	Z	627	HIS
1	Z	643	GLN
1	Z	679	GLN
1	a	217	ASN
1	a	248	ASN
1	a	261	ASN
1	a	279	HIS
1	a	281	HIS
1	a	326	ASN
1	a	332	GLN
1	a	376	ASN
1	a	377	GLN
1	a	383	ASN
1	a	400	ASN
1	a	419	HIS
1	a	421	GLN
1	a	470	ASN
1	a	511	ASN
1	a	621	HIS
1	a	627	HIS
1	a	643	GLN
1	a	679	GLN
1	b	217	ASN
1	b	248	ASN
1	b	261	ASN
1	b	281	HIS
1	b	326	ASN
1	b	332	GLN
1	b	376	ASN
1	b	377	GLN
1	b	383	ASN
1	b	400	ASN
1	b	419	HIS
1	b	421	GLN
1	b	470	ASN
1	b	621	HIS
1	b	627	HIS
1	b	643	GLN
1	b	679	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	c	217	ASN
1	c	248	ASN
1	c	261	ASN
1	c	281	HIS
1	c	326	ASN
1	c	332	GLN
1	c	376	ASN
1	c	377	GLN
1	c	383	ASN
1	c	400	ASN
1	c	419	HIS
1	c	421	GLN
1	c	470	ASN
1	c	621	HIS
1	c	627	HIS
1	c	643	GLN
1	c	679	GLN
1	d	217	ASN
1	d	248	ASN
1	d	261	ASN
1	d	281	HIS
1	d	326	ASN
1	d	332	GLN
1	d	376	ASN
1	d	377	GLN
1	d	383	ASN
1	d	400	ASN
1	d	419	HIS
1	d	421	GLN
1	d	470	ASN
1	d	511	ASN
1	d	621	HIS
1	d	627	HIS
1	d	643	GLN
1	d	679	GLN
1	e	217	ASN
1	e	248	ASN
1	e	261	ASN
1	e	281	HIS
1	e	326	ASN
1	e	332	GLN
1	e	376	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	e	377	GLN
1	e	383	ASN
1	e	400	ASN
1	e	419	HIS
1	e	421	GLN
1	e	470	ASN
1	e	621	HIS
1	e	627	HIS
1	e	643	GLN
1	e	679	GLN
1	f	217	ASN
1	f	248	ASN
1	f	261	ASN
1	f	281	HIS
1	f	326	ASN
1	f	332	GLN
1	f	376	ASN
1	f	377	GLN
1	f	383	ASN
1	f	400	ASN
1	f	419	HIS
1	f	421	GLN
1	f	470	ASN
1	f	621	HIS
1	f	627	HIS
1	f	643	GLN
1	f	679	GLN
1	g	217	ASN
1	g	248	ASN
1	g	261	ASN
1	g	281	HIS
1	g	326	ASN
1	g	332	GLN
1	g	377	GLN
1	g	378	ASN
1	g	383	ASN
1	g	400	ASN
1	g	419	HIS
1	g	421	GLN
1	g	470	ASN
1	g	511	ASN
1	g	621	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	g	627	HIS
1	g	643	GLN
1	g	679	GLN
1	h	248	ASN
1	h	261	ASN
1	h	281	HIS
1	h	325	ASN
1	h	326	ASN
1	h	332	GLN
1	h	376	ASN
1	h	377	GLN
1	h	383	ASN
1	h	400	ASN
1	h	419	HIS
1	h	421	GLN
1	h	470	ASN
1	h	621	HIS
1	h	627	HIS
1	h	643	GLN
1	h	679	GLN
1	i	217	ASN
1	i	248	ASN
1	i	261	ASN
1	i	281	HIS
1	i	326	ASN
1	i	332	GLN
1	i	376	ASN
1	i	377	GLN
1	i	383	ASN
1	i	400	ASN
1	i	419	HIS
1	i	421	GLN
1	i	470	ASN
1	i	621	HIS
1	i	627	HIS
1	i	643	GLN
1	i	679	GLN
1	j	217	ASN
1	j	248	ASN
1	j	261	ASN
1	j	281	HIS
1	j	326	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	j	332	GLN
1	j	376	ASN
1	j	377	GLN
1	j	383	ASN
1	j	400	ASN
1	j	419	HIS
1	j	421	GLN
1	j	470	ASN
1	j	511	ASN
1	j	621	HIS
1	j	627	HIS
1	j	643	GLN
1	j	679	GLN
1	k	217	ASN
1	k	248	ASN
1	k	261	ASN
1	k	281	HIS
1	k	326	ASN
1	k	332	GLN
1	k	377	GLN
1	k	378	ASN
1	k	383	ASN
1	k	400	ASN
1	k	419	HIS
1	k	421	GLN
1	k	470	ASN
1	k	511	ASN
1	k	621	HIS
1	k	627	HIS
1	k	643	GLN
1	k	679	GLN
1	l	217	ASN
1	l	248	ASN
1	l	261	ASN
1	l	281	HIS
1	l	326	ASN
1	l	332	GLN
1	l	376	ASN
1	l	377	GLN
1	l	383	ASN
1	l	400	ASN
1	l	419	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	l	421	GLN
1	l	470	ASN
1	l	511	ASN
1	l	621	HIS
1	l	627	HIS
1	l	643	GLN
1	l	679	GLN
1	m	217	ASN
1	m	248	ASN
1	m	261	ASN
1	m	281	HIS
1	m	326	ASN
1	m	332	GLN
1	m	376	ASN
1	m	377	GLN
1	m	383	ASN
1	m	400	ASN
1	m	419	HIS
1	m	421	GLN
1	m	470	ASN
1	m	511	ASN
1	m	621	HIS
1	m	627	HIS
1	m	643	GLN
1	m	679	GLN
1	n	217	ASN
1	n	248	ASN
1	n	261	ASN
1	n	281	HIS
1	n	326	ASN
1	n	332	GLN
1	n	376	ASN
1	n	377	GLN
1	n	383	ASN
1	n	400	ASN
1	n	419	HIS
1	n	421	GLN
1	n	470	ASN
1	n	511	ASN
1	n	621	HIS
1	n	627	HIS
1	n	643	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	n	679	GLN
1	o	217	ASN
1	o	248	ASN
1	o	261	ASN
1	o	281	HIS
1	o	326	ASN
1	o	332	GLN
1	o	377	GLN
1	o	378	ASN
1	o	383	ASN
1	o	400	ASN
1	o	419	HIS
1	o	421	GLN
1	o	470	ASN
1	o	511	ASN
1	o	621	HIS
1	o	627	HIS
1	o	643	GLN
1	o	679	GLN
1	p	217	ASN
1	p	248	ASN
1	p	261	ASN
1	p	281	HIS
1	p	326	ASN
1	p	332	GLN
1	p	376	ASN
1	p	377	GLN
1	p	383	ASN
1	p	400	ASN
1	p	419	HIS
1	p	421	GLN
1	p	470	ASN
1	p	621	HIS
1	p	627	HIS
1	p	643	GLN
1	p	679	GLN
1	q	217	ASN
1	q	248	ASN
1	q	261	ASN
1	q	281	HIS
1	q	326	ASN
1	q	332	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	q	377	GLN
1	q	378	ASN
1	q	383	ASN
1	q	400	ASN
1	q	419	HIS
1	q	421	GLN
1	q	470	ASN
1	q	511	ASN
1	q	621	HIS
1	q	627	HIS
1	q	643	GLN
1	q	679	GLN
1	r	217	ASN
1	r	248	ASN
1	r	261	ASN
1	r	281	HIS
1	r	326	ASN
1	r	332	GLN
1	r	377	GLN
1	r	378	ASN
1	r	383	ASN
1	r	400	ASN
1	r	419	HIS
1	r	421	GLN
1	r	470	ASN
1	r	621	HIS
1	r	627	HIS
1	r	643	GLN
1	r	679	GLN
1	s	217	ASN
1	s	248	ASN
1	s	261	ASN
1	s	281	HIS
1	s	326	ASN
1	s	332	GLN
1	s	377	GLN
1	s	378	ASN
1	s	383	ASN
1	s	400	ASN
1	s	419	HIS
1	s	421	GLN
1	s	470	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	s	621	HIS
1	s	627	HIS
1	s	643	GLN
1	s	679	GLN
1	t	217	ASN
1	t	248	ASN
1	t	261	ASN
1	t	281	HIS
1	t	326	ASN
1	t	332	GLN
1	t	376	ASN
1	t	377	GLN
1	t	383	ASN
1	t	400	ASN
1	t	419	HIS
1	t	421	GLN
1	t	470	ASN
1	t	621	HIS
1	t	627	HIS
1	t	643	GLN
1	t	679	GLN
1	u	217	ASN
1	u	248	ASN
1	u	261	ASN
1	u	281	HIS
1	u	326	ASN
1	u	332	GLN
1	u	377	GLN
1	u	378	ASN
1	u	383	ASN
1	u	400	ASN
1	u	419	HIS
1	u	421	GLN
1	u	470	ASN
1	u	621	HIS
1	u	627	HIS
1	u	643	GLN
1	u	679	GLN
1	v	217	ASN
1	v	248	ASN
1	v	261	ASN
1	v	279	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	v	281	HIS
1	v	326	ASN
1	v	332	GLN
1	v	377	GLN
1	v	378	ASN
1	v	383	ASN
1	v	400	ASN
1	v	419	HIS
1	v	421	GLN
1	v	470	ASN
1	v	621	HIS
1	v	627	HIS
1	v	643	GLN
1	v	679	GLN
1	w	217	ASN
1	w	248	ASN
1	w	261	ASN
1	w	281	HIS
1	w	326	ASN
1	w	332	GLN
1	w	377	GLN
1	w	378	ASN
1	w	383	ASN
1	w	400	ASN
1	w	419	HIS
1	w	421	GLN
1	w	470	ASN
1	w	621	HIS
1	w	627	HIS
1	w	643	GLN
1	w	679	GLN
1	x	217	ASN
1	x	248	ASN
1	x	261	ASN
1	x	281	HIS
1	x	326	ASN
1	x	332	GLN
1	x	376	ASN
1	x	377	GLN
1	x	383	ASN
1	x	400	ASN
1	x	419	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	x	421	GLN
1	x	470	ASN
1	x	621	HIS
1	x	627	HIS
1	x	643	GLN
1	x	679	GLN
1	y	217	ASN
1	y	248	ASN
1	y	261	ASN
1	y	281	HIS
1	y	326	ASN
1	y	332	GLN
1	y	377	GLN
1	y	378	ASN
1	y	383	ASN
1	y	400	ASN
1	y	419	HIS
1	y	421	GLN
1	y	470	ASN
1	y	621	HIS
1	y	627	HIS
1	y	643	GLN
1	y	679	GLN
1	z	217	ASN
1	z	248	ASN
1	z	261	ASN
1	z	281	HIS
1	z	326	ASN
1	z	332	GLN
1	z	376	ASN
1	z	377	GLN
1	z	383	ASN
1	z	400	ASN
1	z	419	HIS
1	z	421	GLN
1	z	470	ASN
1	z	621	HIS
1	z	627	HIS
1	z	643	GLN
1	z	679	GLN
1	1	217	ASN
1	1	248	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1	261	ASN
1	1	281	HIS
1	1	326	ASN
1	1	332	GLN
1	1	376	ASN
1	1	377	GLN
1	1	383	ASN
1	1	400	ASN
1	1	419	HIS
1	1	421	GLN
1	1	470	ASN
1	1	511	ASN
1	1	621	HIS
1	1	627	HIS
1	1	643	GLN
1	1	679	GLN
1	2	217	ASN
1	2	261	ASN
1	2	281	HIS
1	2	326	ASN
1	2	332	GLN
1	2	376	ASN
1	2	377	GLN
1	2	383	ASN
1	2	400	ASN
1	2	419	HIS
1	2	421	GLN
1	2	470	ASN
1	2	511	ASN
1	2	621	HIS
1	2	627	HIS
1	2	643	GLN
1	2	679	GLN
1	3	217	ASN
1	3	248	ASN
1	3	261	ASN
1	3	279	HIS
1	3	281	HIS
1	3	326	ASN
1	3	332	GLN
1	3	376	ASN
1	3	377	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	3	383	ASN
1	3	400	ASN
1	3	419	HIS
1	3	421	GLN
1	3	470	ASN
1	3	621	HIS
1	3	627	HIS
1	3	643	GLN
1	3	679	GLN
1	4	217	ASN
1	4	248	ASN
1	4	261	ASN
1	4	279	HIS
1	4	281	HIS
1	4	326	ASN
1	4	332	GLN
1	4	377	GLN
1	4	378	ASN
1	4	383	ASN
1	4	400	ASN
1	4	419	HIS
1	4	421	GLN
1	4	470	ASN
1	4	511	ASN
1	4	621	HIS
1	4	627	HIS
1	4	643	GLN
1	4	679	GLN
1	5	217	ASN
1	5	248	ASN
1	5	261	ASN
1	5	281	HIS
1	5	326	ASN
1	5	332	GLN
1	5	377	GLN
1	5	378	ASN
1	5	383	ASN
1	5	400	ASN
1	5	419	HIS
1	5	421	GLN
1	5	470	ASN
1	5	621	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	5	627	HIS
1	5	643	GLN
1	5	679	GLN
1	6	217	ASN
1	6	248	ASN
1	6	261	ASN
1	6	281	HIS
1	6	326	ASN
1	6	332	GLN
1	6	377	GLN
1	6	378	ASN
1	6	383	ASN
1	6	400	ASN
1	6	419	HIS
1	6	421	GLN
1	6	470	ASN
1	6	621	HIS
1	6	627	HIS
1	6	643	GLN
1	6	679	GLN
1	7	217	ASN
1	7	248	ASN
1	7	261	ASN
1	7	281	HIS
1	7	326	ASN
1	7	332	GLN
1	7	376	ASN
1	7	377	GLN
1	7	383	ASN
1	7	400	ASN
1	7	419	HIS
1	7	421	GLN
1	7	470	ASN
1	7	621	HIS
1	7	627	HIS
1	7	643	GLN
1	7	679	GLN
1	8	217	ASN
1	8	248	ASN
1	8	261	ASN
1	8	281	HIS
1	8	326	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	8	332	GLN
1	8	376	ASN
1	8	377	GLN
1	8	383	ASN
1	8	400	ASN
1	8	419	HIS
1	8	421	GLN
1	8	470	ASN
1	8	621	HIS
1	8	627	HIS
1	8	643	GLN
1	8	679	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	V	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	t	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	r	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	u	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	N	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	a	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	l	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	I	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	O	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	q	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	M	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	w	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	b	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	g	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	Y	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	B	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	R	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	Z	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	c	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	e	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	7	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	i	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	E	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	o	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	U	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	s	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	T	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	n	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	A	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	l	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	W	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	j	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	x	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	y	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	f	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	J	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	m	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	C	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	S	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	8	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	H	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	v	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	L	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	F	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	h	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	3	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	4	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	6	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	d	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	p	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	2	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	Q	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	5	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	D	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	G	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	P	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	K	801	-	24,24,24	0.49	0	35,36,36	0.71	1 (2%)
2	D5M	X	801	-	24,24,24	0.50	0	35,36,36	0.71	1 (2%)
2	D5M	z	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	k	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)

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	V	801	-	-	2/10/22/22	0/3/3/3
2	D5M	t	801	-	-	2/10/22/22	0/3/3/3
2	D5M	r	801	-	-	2/10/22/22	0/3/3/3
2	D5M	u	801	-	-	2/10/22/22	0/3/3/3
2	D5M	N	801	-	-	2/10/22/22	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	a	801	-	-	2/10/22/22	0/3/3/3
2	D5M	l	801	-	-	2/10/22/22	0/3/3/3
2	D5M	I	801	-	-	2/10/22/22	0/3/3/3
2	D5M	O	801	-	-	2/10/22/22	0/3/3/3
2	D5M	q	801	-	-	2/10/22/22	0/3/3/3
2	D5M	M	801	-	-	2/10/22/22	0/3/3/3
2	D5M	w	801	-	-	2/10/22/22	0/3/3/3
2	D5M	b	801	-	-	2/10/22/22	0/3/3/3
2	D5M	g	801	-	-	2/10/22/22	0/3/3/3
2	D5M	Y	801	-	-	2/10/22/22	0/3/3/3
2	D5M	B	801	-	-	2/10/22/22	0/3/3/3
2	D5M	R	801	-	-	2/10/22/22	0/3/3/3
2	D5M	Z	801	-	-	2/10/22/22	0/3/3/3
2	D5M	c	801	-	-	2/10/22/22	0/3/3/3
2	D5M	e	801	-	-	2/10/22/22	0/3/3/3
2	D5M	7	801	-	-	2/10/22/22	0/3/3/3
2	D5M	i	801	-	-	2/10/22/22	0/3/3/3
2	D5M	E	801	-	-	2/10/22/22	0/3/3/3
2	D5M	o	801	-	-	2/10/22/22	0/3/3/3
2	D5M	U	801	-	-	2/10/22/22	0/3/3/3
2	D5M	s	801	-	-	2/10/22/22	0/3/3/3
2	D5M	T	801	-	-	2/10/22/22	0/3/3/3
2	D5M	n	801	-	-	2/10/22/22	0/3/3/3
2	D5M	A	801	-	-	2/10/22/22	0/3/3/3
2	D5M	1	801	-	-	2/10/22/22	0/3/3/3
2	D5M	W	801	-	-	2/10/22/22	0/3/3/3
2	D5M	j	801	-	-	2/10/22/22	0/3/3/3
2	D5M	x	801	-	-	2/10/22/22	0/3/3/3
2	D5M	y	801	-	-	2/10/22/22	0/3/3/3
2	D5M	f	801	-	-	2/10/22/22	0/3/3/3
2	D5M	J	801	-	-	2/10/22/22	0/3/3/3
2	D5M	m	801	-	-	2/10/22/22	0/3/3/3
2	D5M	C	801	-	-	2/10/22/22	0/3/3/3
2	D5M	S	801	-	-	2/10/22/22	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	8	801	-	-	2/10/22/22	0/3/3/3
2	D5M	H	801	-	-	2/10/22/22	0/3/3/3
2	D5M	v	801	-	-	2/10/22/22	0/3/3/3
2	D5M	L	801	-	-	2/10/22/22	0/3/3/3
2	D5M	F	801	-	-	2/10/22/22	0/3/3/3
2	D5M	h	801	-	-	2/10/22/22	0/3/3/3
2	D5M	3	801	-	-	2/10/22/22	0/3/3/3
2	D5M	4	801	-	-	2/10/22/22	0/3/3/3
2	D5M	6	801	-	-	2/10/22/22	0/3/3/3
2	D5M	d	801	-	-	2/10/22/22	0/3/3/3
2	D5M	p	801	-	-	2/10/22/22	0/3/3/3
2	D5M	2	801	-	-	2/10/22/22	0/3/3/3
2	D5M	Q	801	-	-	2/10/22/22	0/3/3/3
2	D5M	5	801	-	-	2/10/22/22	0/3/3/3
2	D5M	D	801	-	-	2/10/22/22	0/3/3/3
2	D5M	G	801	-	-	2/10/22/22	0/3/3/3
2	D5M	P	801	-	-	2/10/22/22	0/3/3/3
2	D5M	K	801	-	-	2/10/22/22	0/3/3/3
2	D5M	X	801	-	-	2/10/22/22	0/3/3/3
2	D5M	z	801	-	-	2/10/22/22	0/3/3/3
2	D5M	k	801	-	-	2/10/22/22	0/3/3/3

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	S	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	r	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	z	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	2	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	k	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	Q	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	u	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	j	801	D5M	O2P-P-O1P	2.25	119.60	110.83
2	I	801	D5M	O2P-P-O1P	2.25	119.60	110.83
2	G	801	D5M	O2P-P-O1P	2.25	119.60	110.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	Z	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	l	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	8	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	P	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	L	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	U	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	s	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	K	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	T	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	m	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	4	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	E	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	t	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	A	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	a	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	b	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	c	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	d	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	e	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	f	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	n	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	3	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	Y	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	i	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	B	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	R	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	q	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	1	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	H	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	5	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	M	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	X	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	h	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	o	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	D	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	W	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	6	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	C	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	V	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	g	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	p	801	D5M	O2P-P-O1P	2.24	119.55	110.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	x	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	w	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	F	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	v	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	y	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	N	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	7	801	D5M	O2P-P-O1P	2.23	119.53	110.83

There are no chirality outliers.

All (120) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	D5M	C5'-O5'-P-O3P
2	A	801	D5M	C5'-O5'-P-O2P
2	B	801	D5M	C5'-O5'-P-O3P
2	B	801	D5M	C5'-O5'-P-O2P
2	C	801	D5M	C5'-O5'-P-O3P
2	C	801	D5M	C5'-O5'-P-O2P
2	D	801	D5M	C5'-O5'-P-O3P
2	D	801	D5M	C5'-O5'-P-O2P
2	E	801	D5M	C5'-O5'-P-O3P
2	E	801	D5M	C5'-O5'-P-O2P
2	F	801	D5M	C5'-O5'-P-O3P
2	F	801	D5M	C5'-O5'-P-O2P
2	G	801	D5M	C5'-O5'-P-O3P
2	G	801	D5M	C5'-O5'-P-O2P
2	H	801	D5M	C5'-O5'-P-O3P
2	H	801	D5M	C5'-O5'-P-O2P
2	I	801	D5M	C5'-O5'-P-O3P
2	I	801	D5M	C5'-O5'-P-O2P
2	J	801	D5M	C5'-O5'-P-O3P
2	J	801	D5M	C5'-O5'-P-O2P
2	K	801	D5M	C5'-O5'-P-O3P
2	K	801	D5M	C5'-O5'-P-O2P
2	L	801	D5M	C5'-O5'-P-O3P
2	L	801	D5M	C5'-O5'-P-O2P
2	M	801	D5M	C5'-O5'-P-O3P
2	M	801	D5M	C5'-O5'-P-O2P
2	N	801	D5M	C5'-O5'-P-O3P
2	N	801	D5M	C5'-O5'-P-O2P
2	O	801	D5M	C5'-O5'-P-O3P
2	O	801	D5M	C5'-O5'-P-O2P

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	P	801	D5M	C5'-O5'-P-O3P
2	P	801	D5M	C5'-O5'-P-O2P
2	Q	801	D5M	C5'-O5'-P-O3P
2	Q	801	D5M	C5'-O5'-P-O2P
2	R	801	D5M	C5'-O5'-P-O3P
2	R	801	D5M	C5'-O5'-P-O2P
2	S	801	D5M	C5'-O5'-P-O3P
2	S	801	D5M	C5'-O5'-P-O2P
2	T	801	D5M	C5'-O5'-P-O3P
2	T	801	D5M	C5'-O5'-P-O2P
2	U	801	D5M	C5'-O5'-P-O3P
2	U	801	D5M	C5'-O5'-P-O2P
2	V	801	D5M	C5'-O5'-P-O3P
2	V	801	D5M	C5'-O5'-P-O2P
2	W	801	D5M	C5'-O5'-P-O3P
2	W	801	D5M	C5'-O5'-P-O2P
2	X	801	D5M	C5'-O5'-P-O3P
2	X	801	D5M	C5'-O5'-P-O2P
2	Y	801	D5M	C5'-O5'-P-O3P
2	Y	801	D5M	C5'-O5'-P-O2P
2	Z	801	D5M	C5'-O5'-P-O3P
2	Z	801	D5M	C5'-O5'-P-O2P
2	a	801	D5M	C5'-O5'-P-O3P
2	a	801	D5M	C5'-O5'-P-O2P
2	b	801	D5M	C5'-O5'-P-O3P
2	b	801	D5M	C5'-O5'-P-O2P
2	c	801	D5M	C5'-O5'-P-O3P
2	c	801	D5M	C5'-O5'-P-O2P
2	d	801	D5M	C5'-O5'-P-O3P
2	d	801	D5M	C5'-O5'-P-O2P
2	e	801	D5M	C5'-O5'-P-O3P
2	e	801	D5M	C5'-O5'-P-O2P
2	f	801	D5M	C5'-O5'-P-O3P
2	f	801	D5M	C5'-O5'-P-O2P
2	g	801	D5M	C5'-O5'-P-O3P
2	g	801	D5M	C5'-O5'-P-O2P
2	h	801	D5M	C5'-O5'-P-O3P
2	h	801	D5M	C5'-O5'-P-O2P
2	i	801	D5M	C5'-O5'-P-O3P
2	i	801	D5M	C5'-O5'-P-O2P
2	j	801	D5M	C5'-O5'-P-O3P
2	j	801	D5M	C5'-O5'-P-O2P

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	k	801	D5M	C5'-O5'-P-O3P
2	k	801	D5M	C5'-O5'-P-O2P
2	l	801	D5M	C5'-O5'-P-O3P
2	l	801	D5M	C5'-O5'-P-O2P
2	m	801	D5M	C5'-O5'-P-O3P
2	m	801	D5M	C5'-O5'-P-O2P
2	n	801	D5M	C5'-O5'-P-O3P
2	n	801	D5M	C5'-O5'-P-O2P
2	o	801	D5M	C5'-O5'-P-O3P
2	o	801	D5M	C5'-O5'-P-O2P
2	p	801	D5M	C5'-O5'-P-O3P
2	p	801	D5M	C5'-O5'-P-O2P
2	q	801	D5M	C5'-O5'-P-O3P
2	q	801	D5M	C5'-O5'-P-O2P
2	r	801	D5M	C5'-O5'-P-O3P
2	r	801	D5M	C5'-O5'-P-O2P
2	s	801	D5M	C5'-O5'-P-O3P
2	s	801	D5M	C5'-O5'-P-O2P
2	t	801	D5M	C5'-O5'-P-O3P
2	t	801	D5M	C5'-O5'-P-O2P
2	u	801	D5M	C5'-O5'-P-O3P
2	u	801	D5M	C5'-O5'-P-O2P
2	v	801	D5M	C5'-O5'-P-O3P
2	v	801	D5M	C5'-O5'-P-O2P
2	w	801	D5M	C5'-O5'-P-O3P
2	w	801	D5M	C5'-O5'-P-O2P
2	x	801	D5M	C5'-O5'-P-O3P
2	x	801	D5M	C5'-O5'-P-O2P
2	y	801	D5M	C5'-O5'-P-O3P
2	y	801	D5M	C5'-O5'-P-O2P
2	z	801	D5M	C5'-O5'-P-O3P
2	z	801	D5M	C5'-O5'-P-O2P
2	1	801	D5M	C5'-O5'-P-O3P
2	1	801	D5M	C5'-O5'-P-O2P
2	2	801	D5M	C5'-O5'-P-O3P
2	2	801	D5M	C5'-O5'-P-O2P
2	3	801	D5M	C5'-O5'-P-O3P
2	3	801	D5M	C5'-O5'-P-O2P
2	4	801	D5M	C5'-O5'-P-O3P
2	4	801	D5M	C5'-O5'-P-O2P
2	5	801	D5M	C5'-O5'-P-O3P
2	5	801	D5M	C5'-O5'-P-O2P

Continued on next page...

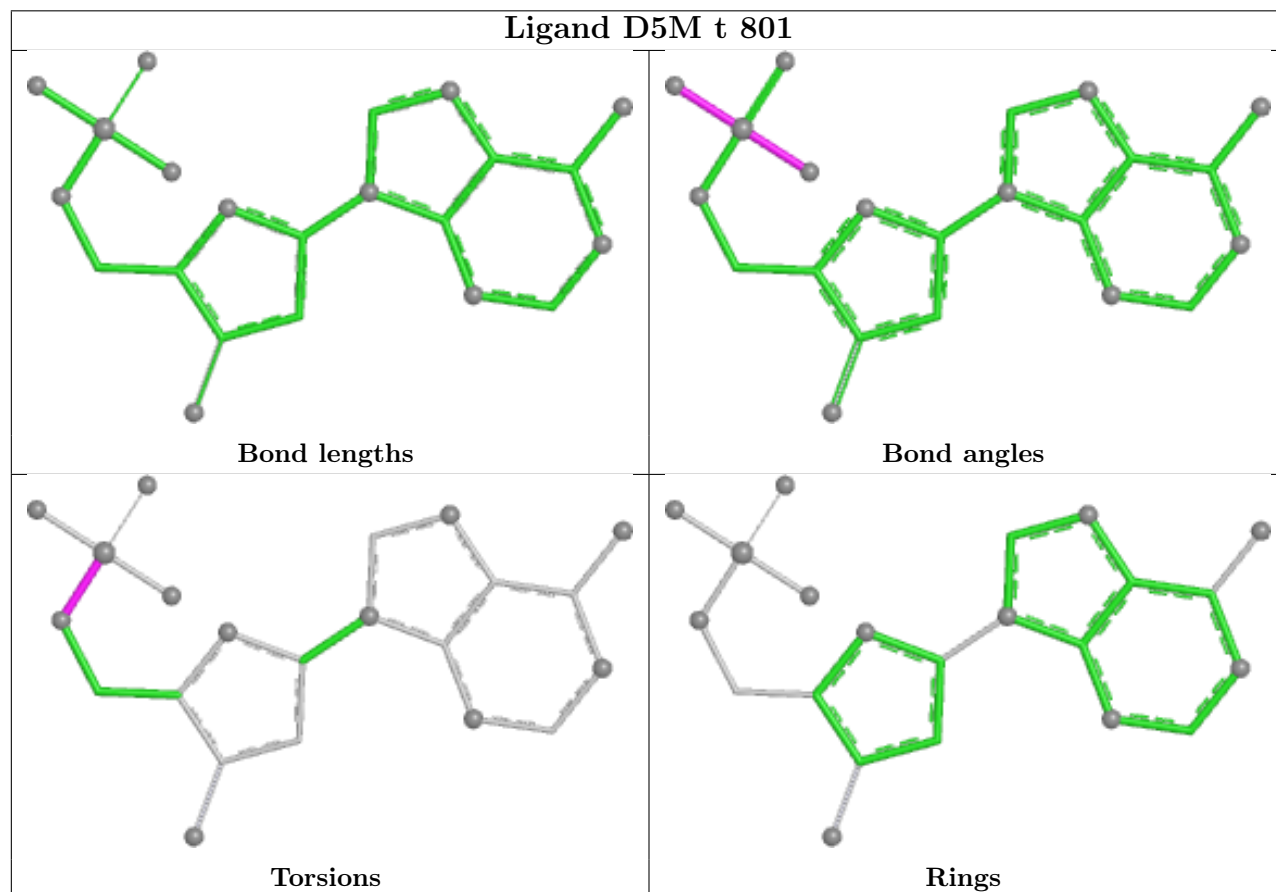
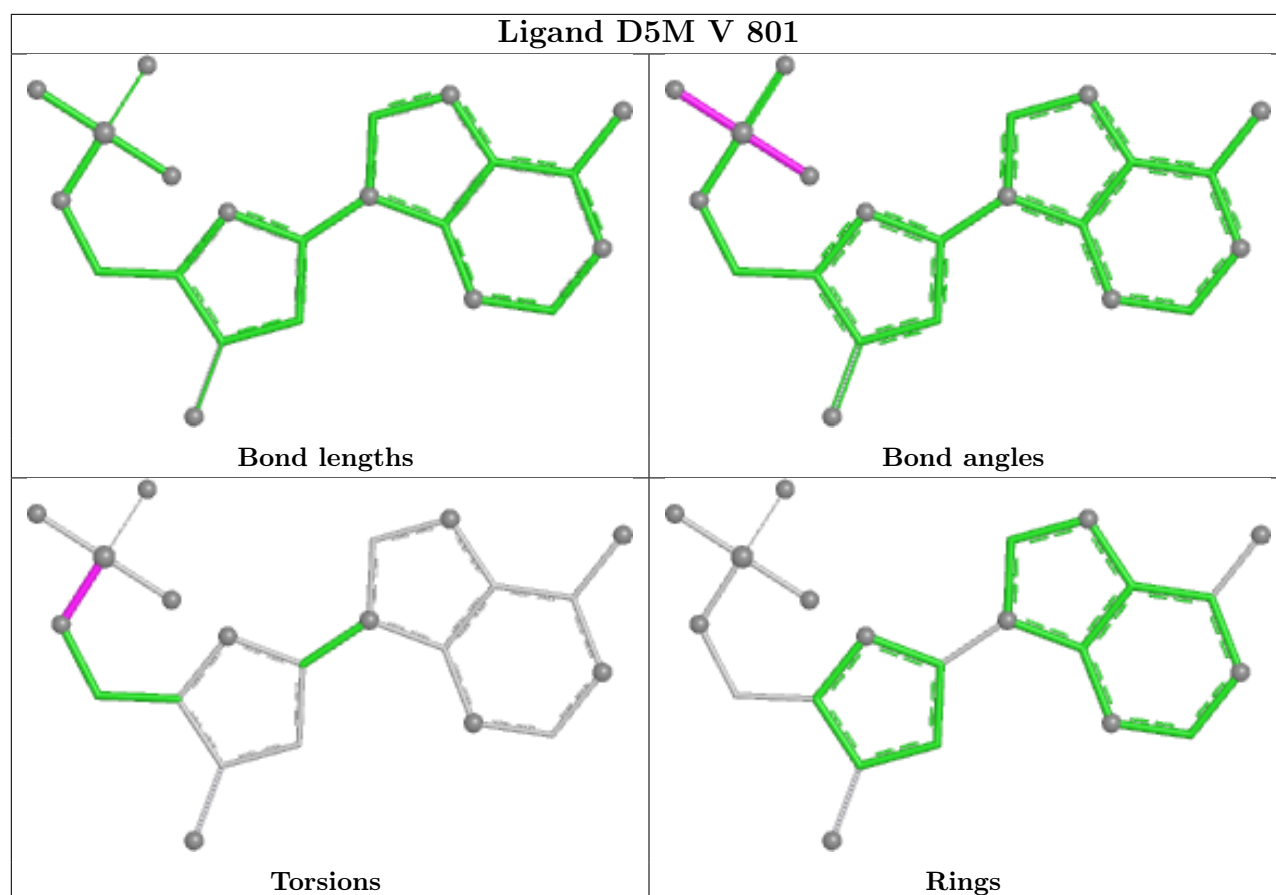
Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	6	801	D5M	C5'-O5'-P-O3P
2	6	801	D5M	C5'-O5'-P-O2P
2	7	801	D5M	C5'-O5'-P-O3P
2	7	801	D5M	C5'-O5'-P-O2P
2	8	801	D5M	C5'-O5'-P-O3P
2	8	801	D5M	C5'-O5'-P-O2P

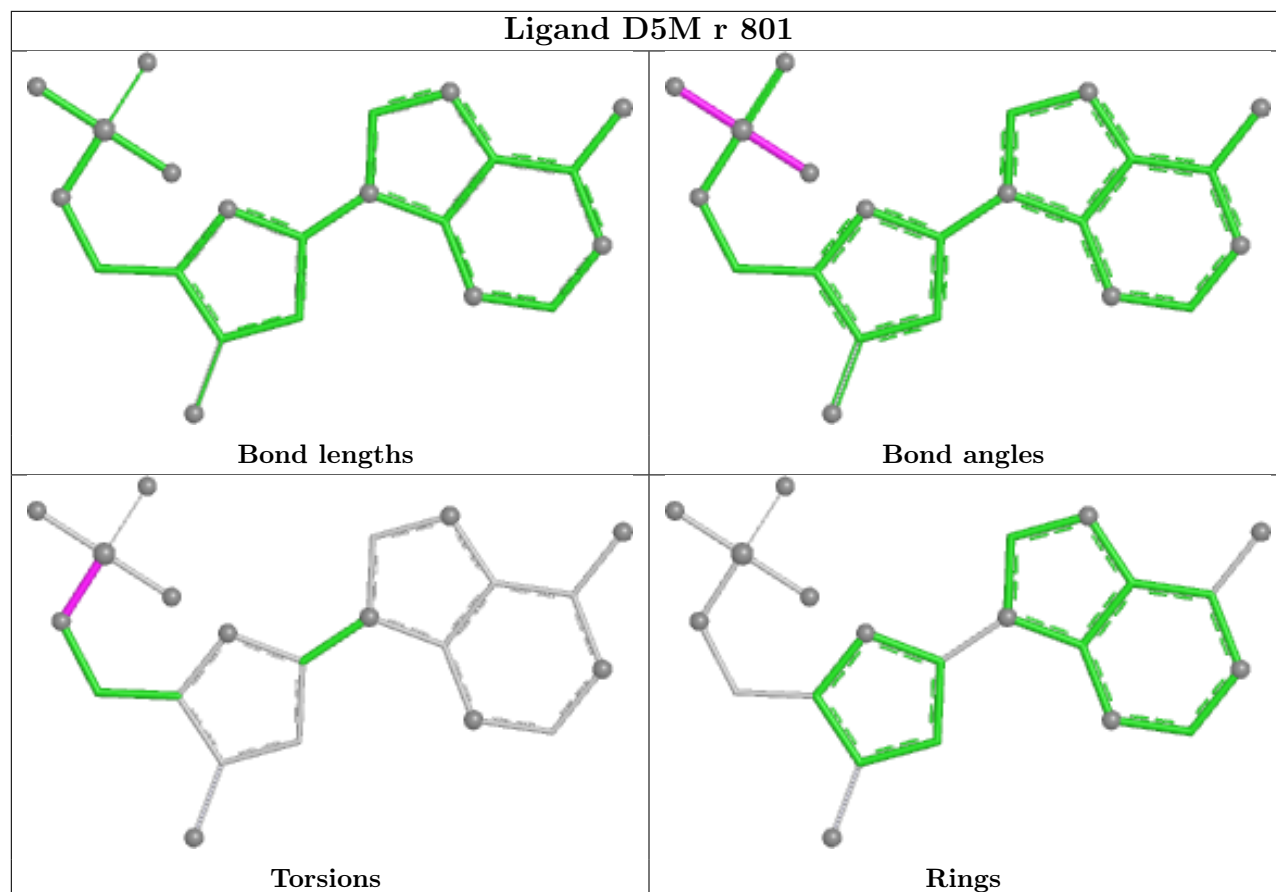
There are no ring outliers.

No monomer is involved in short contacts.

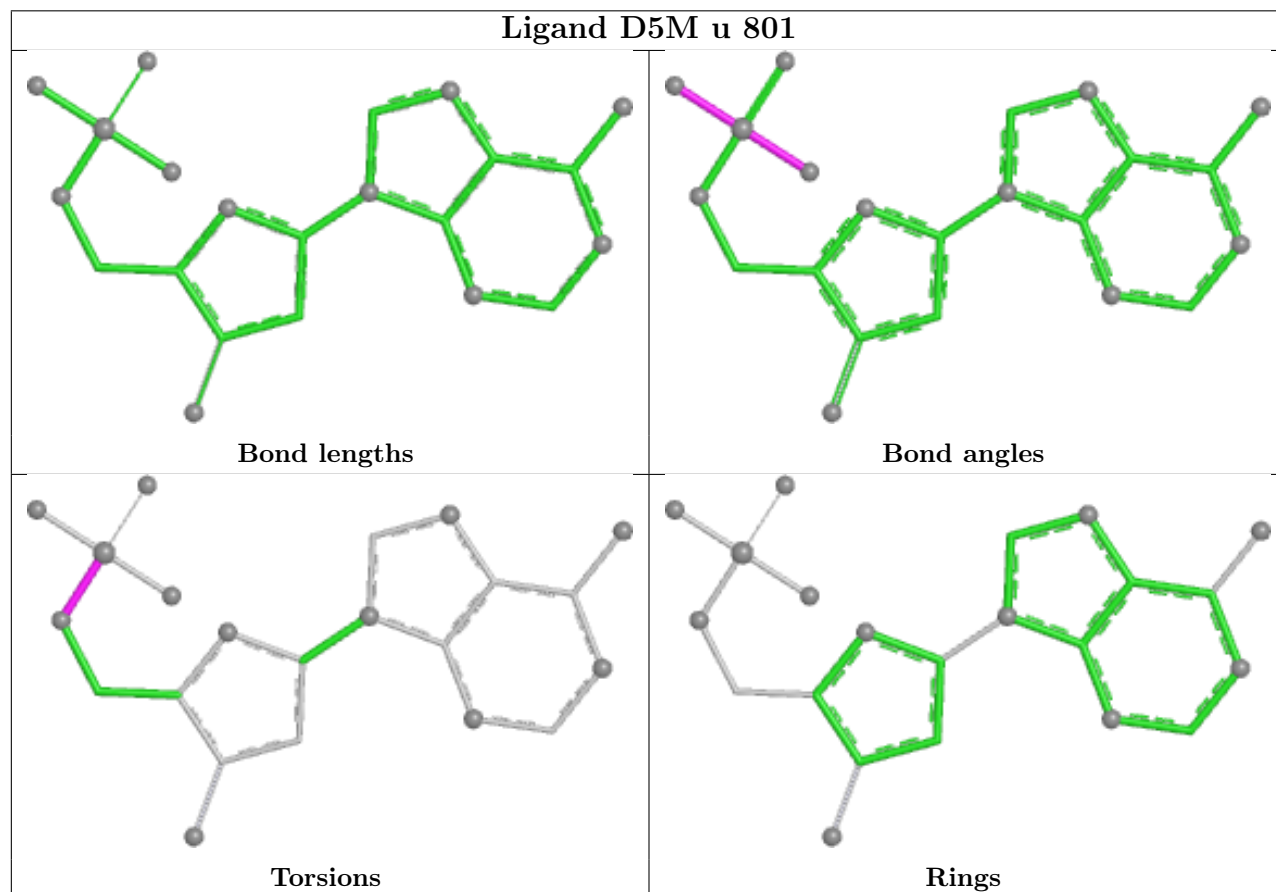
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

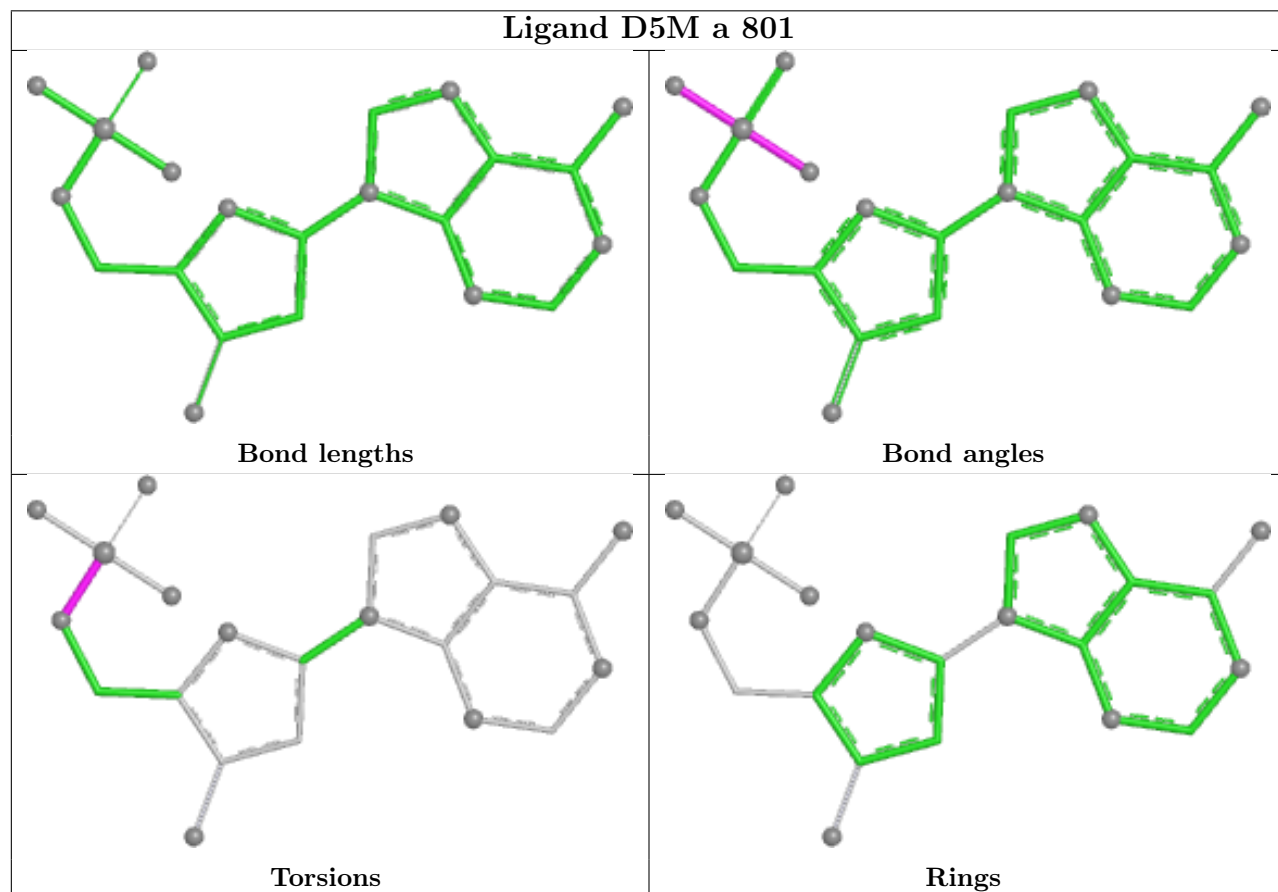
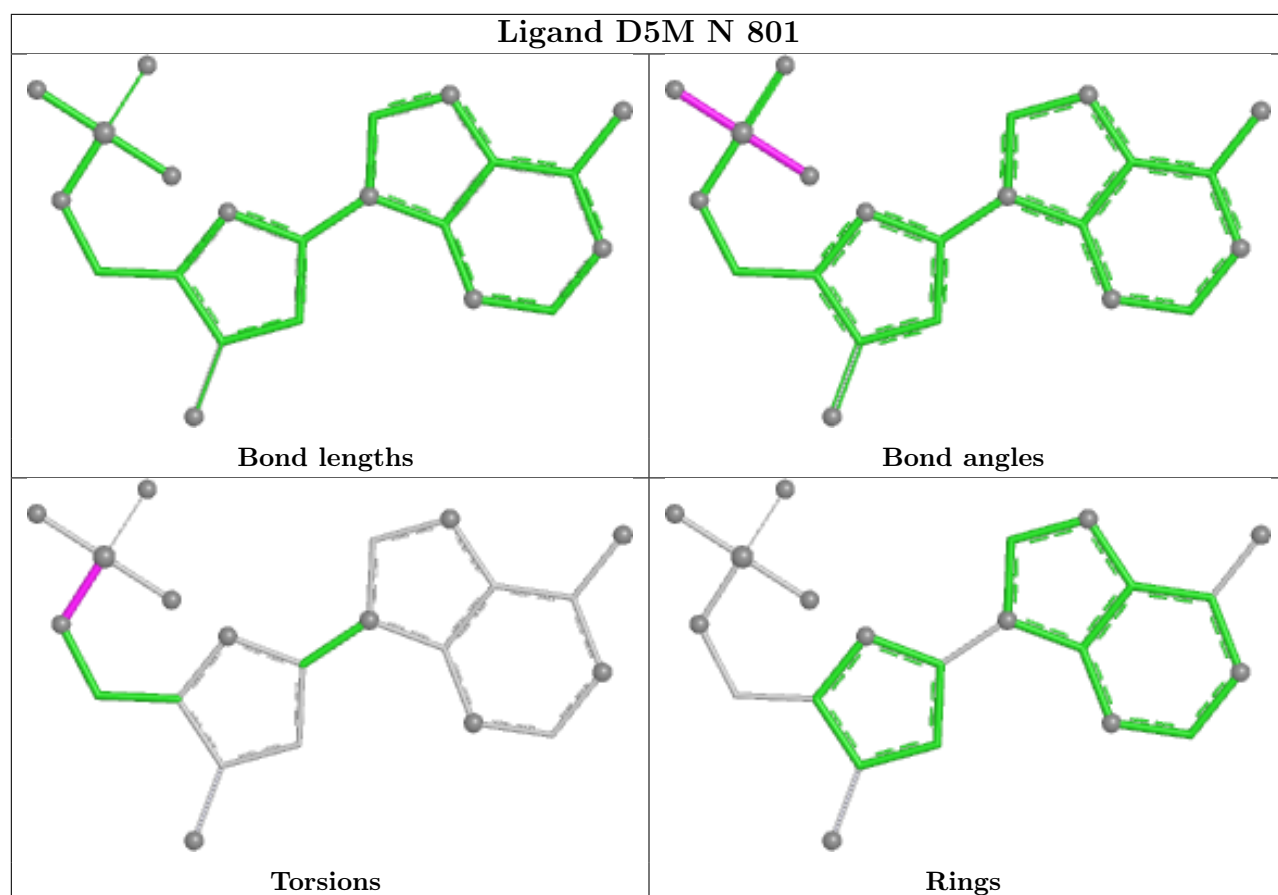


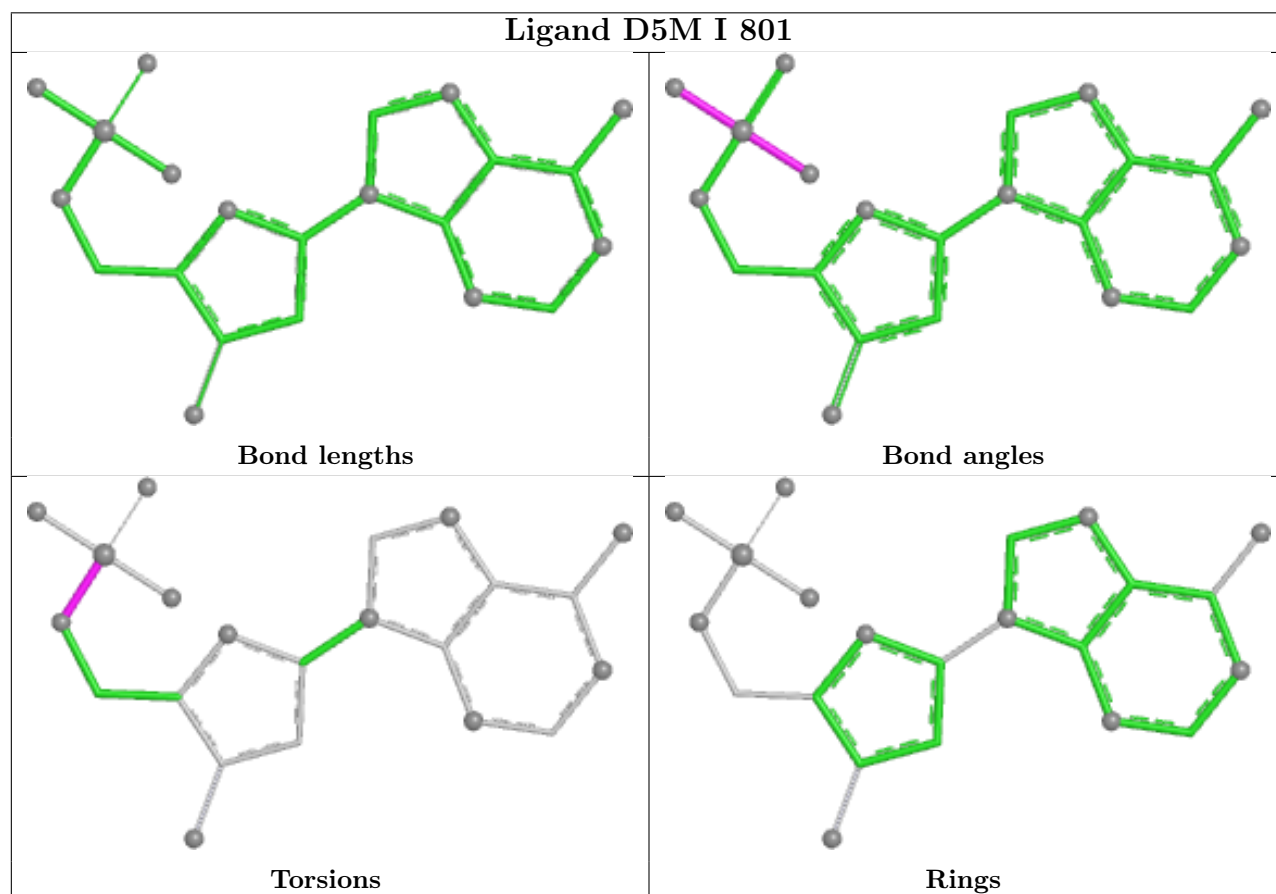
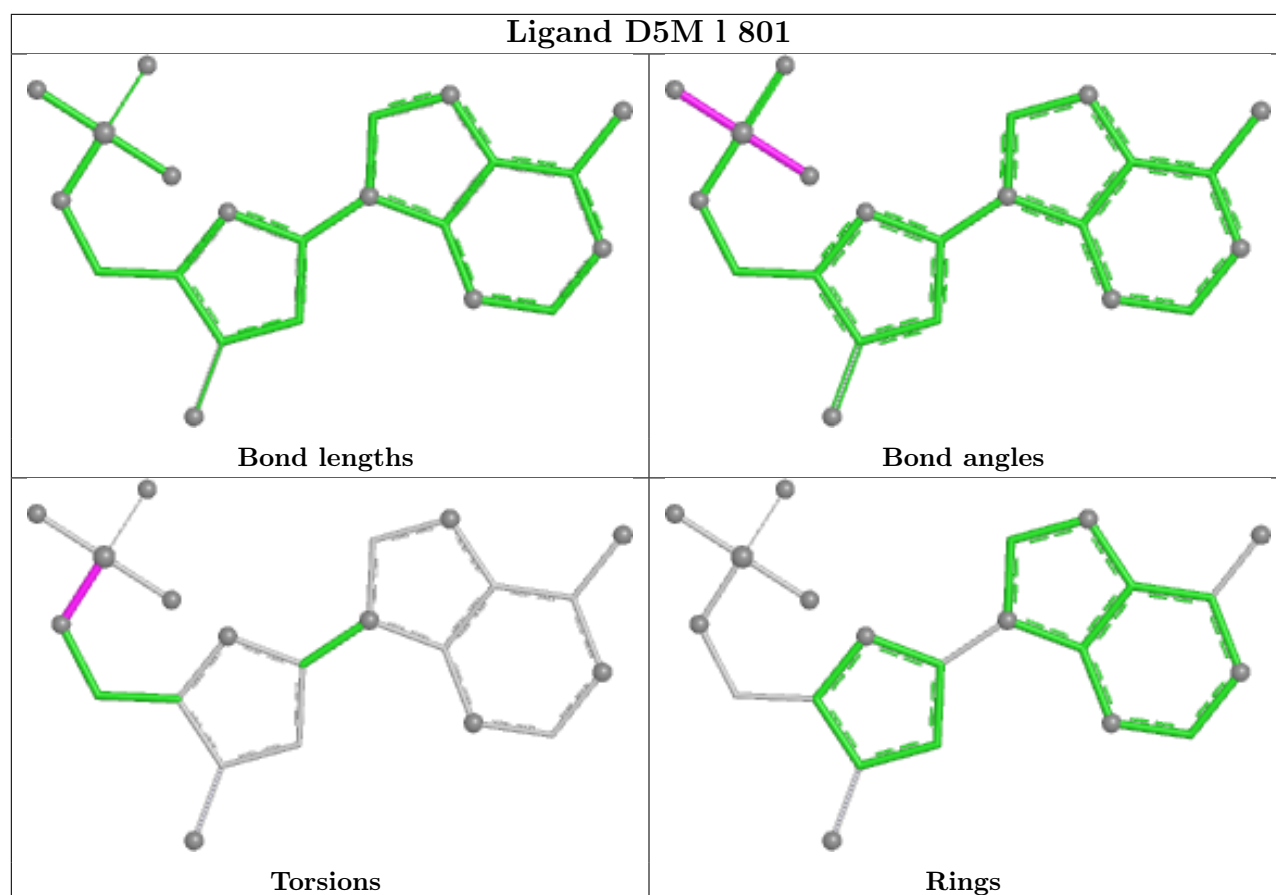
Ligand D5M r 801

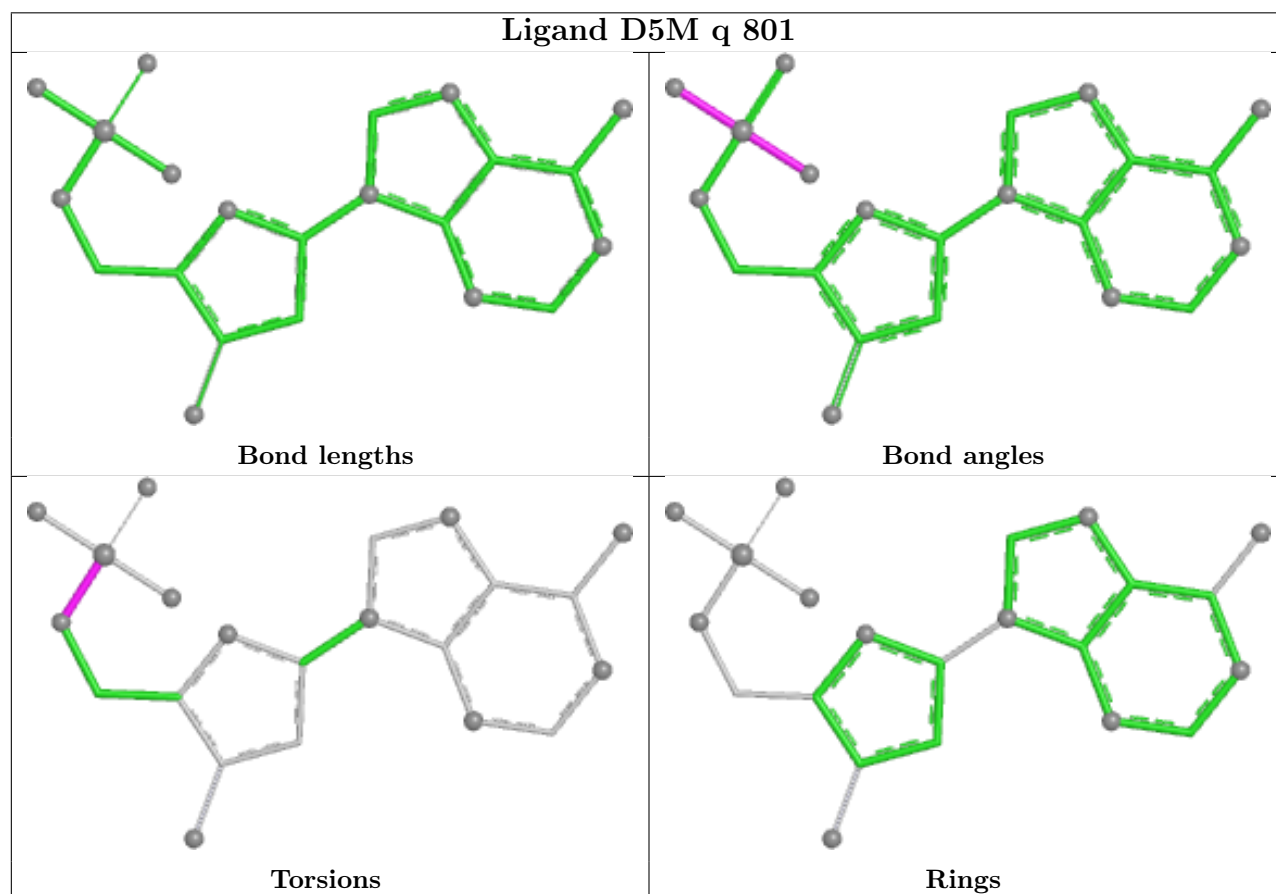
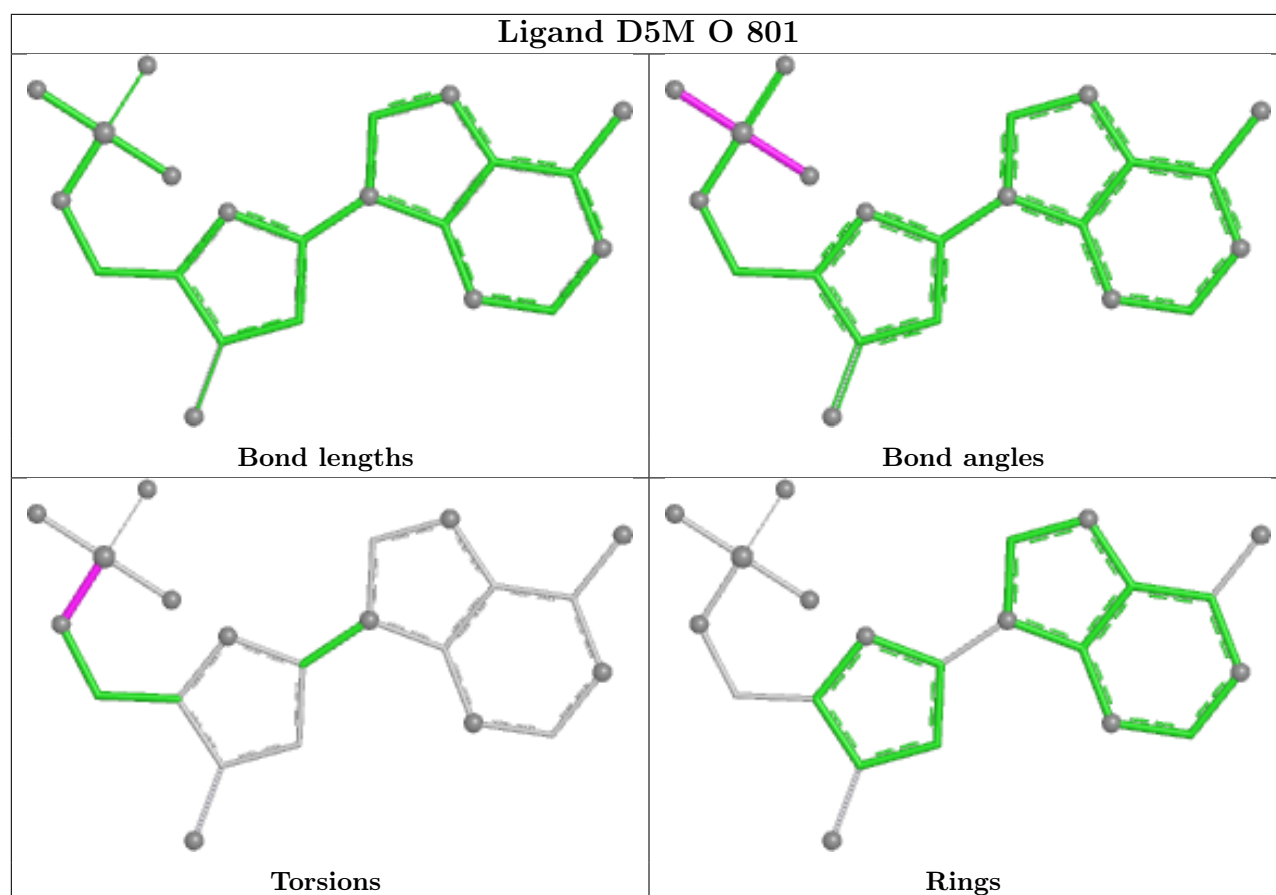


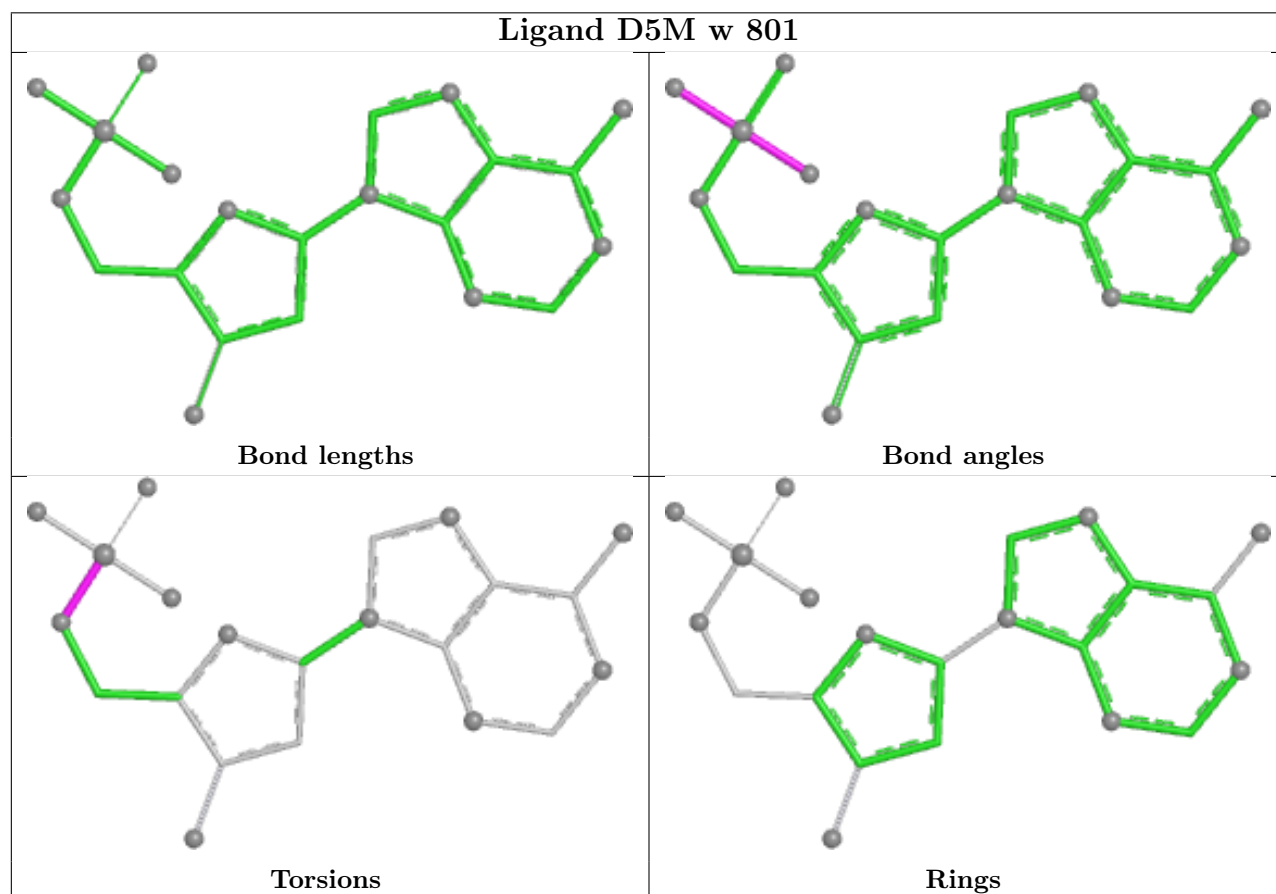
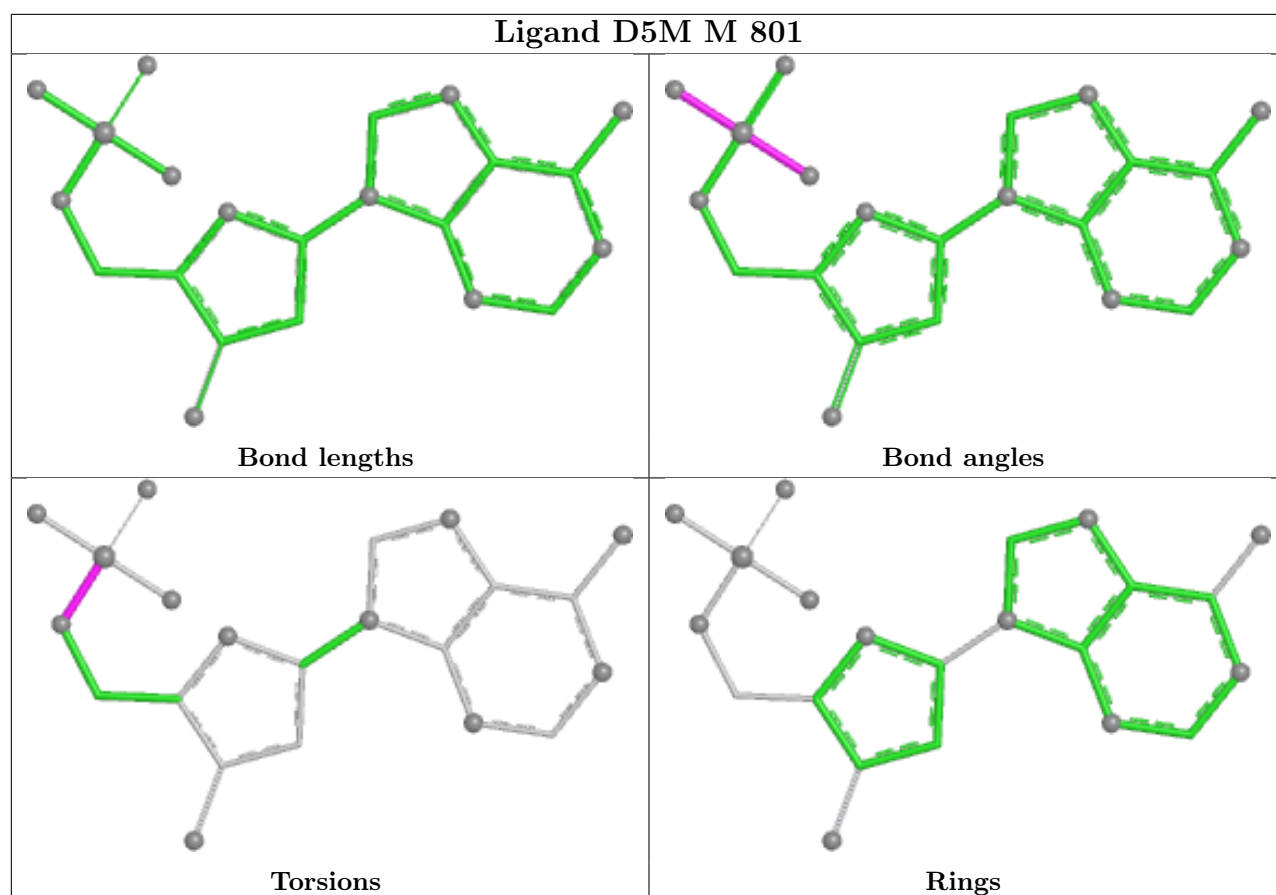
Ligand D5M u 801

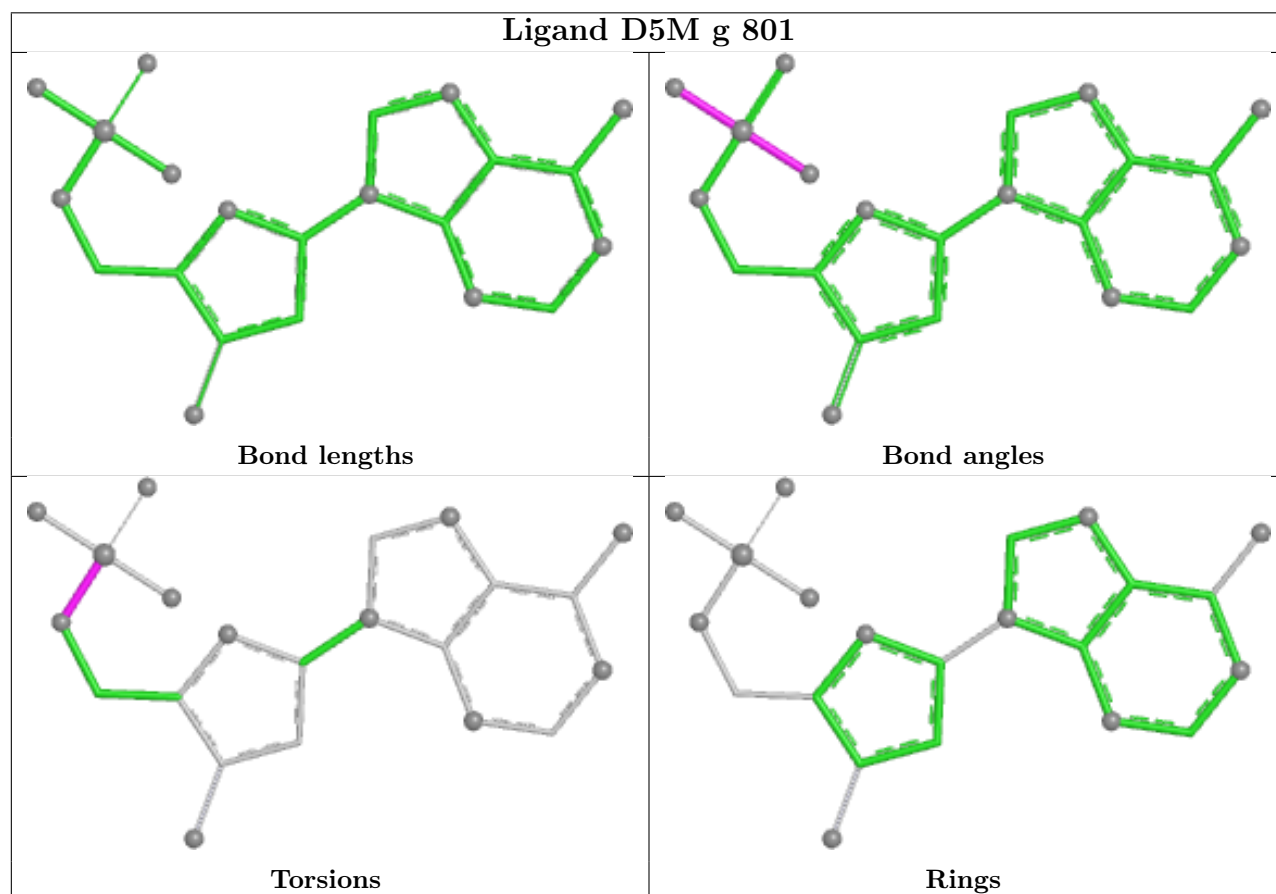
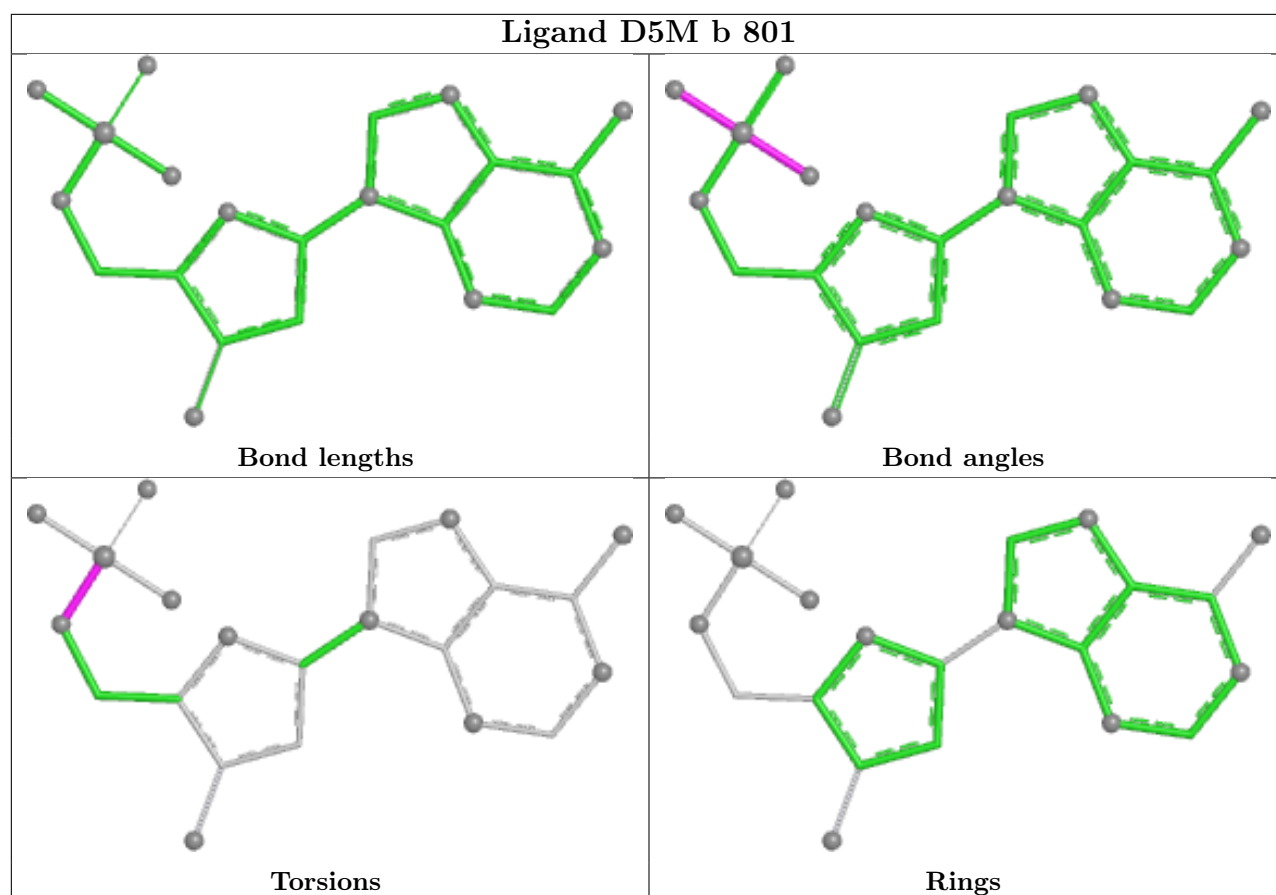


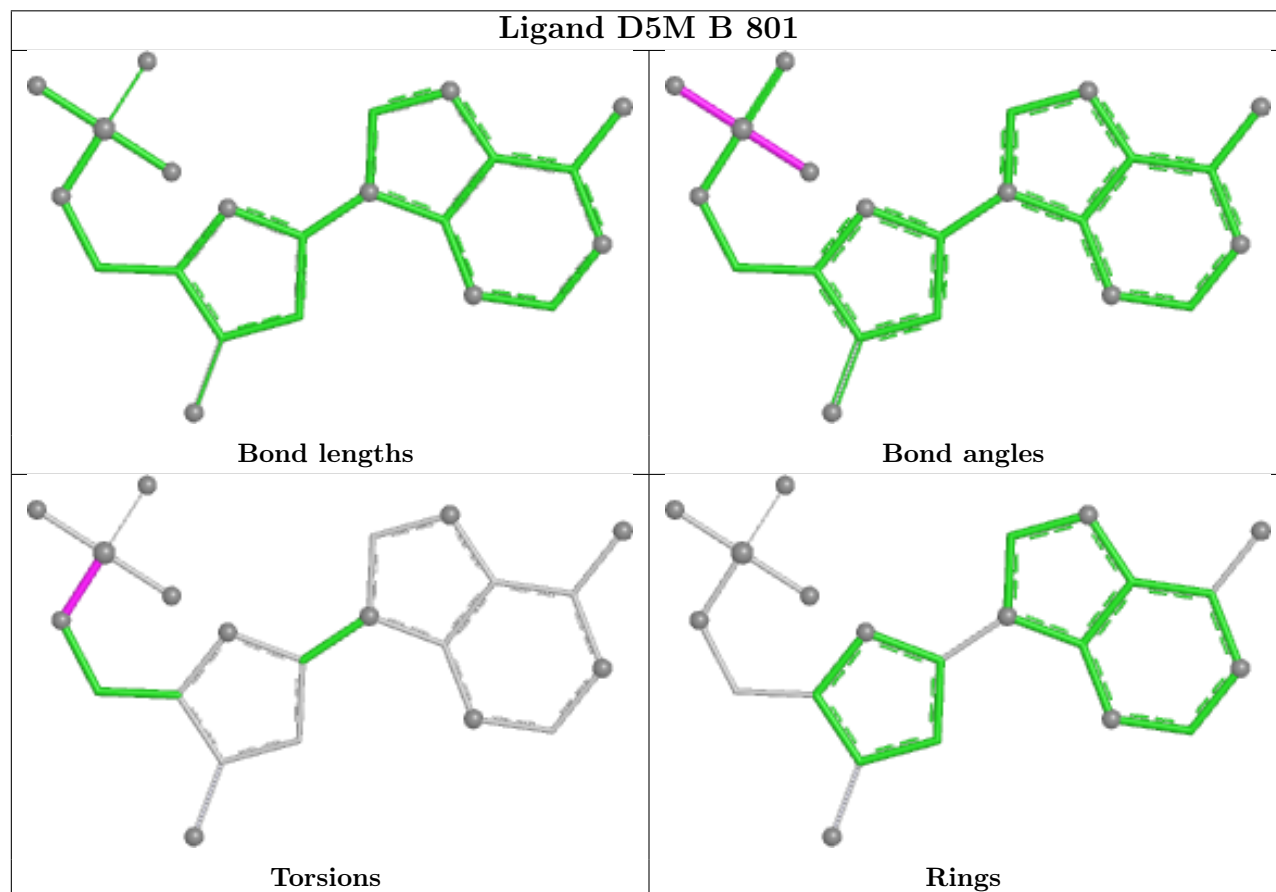
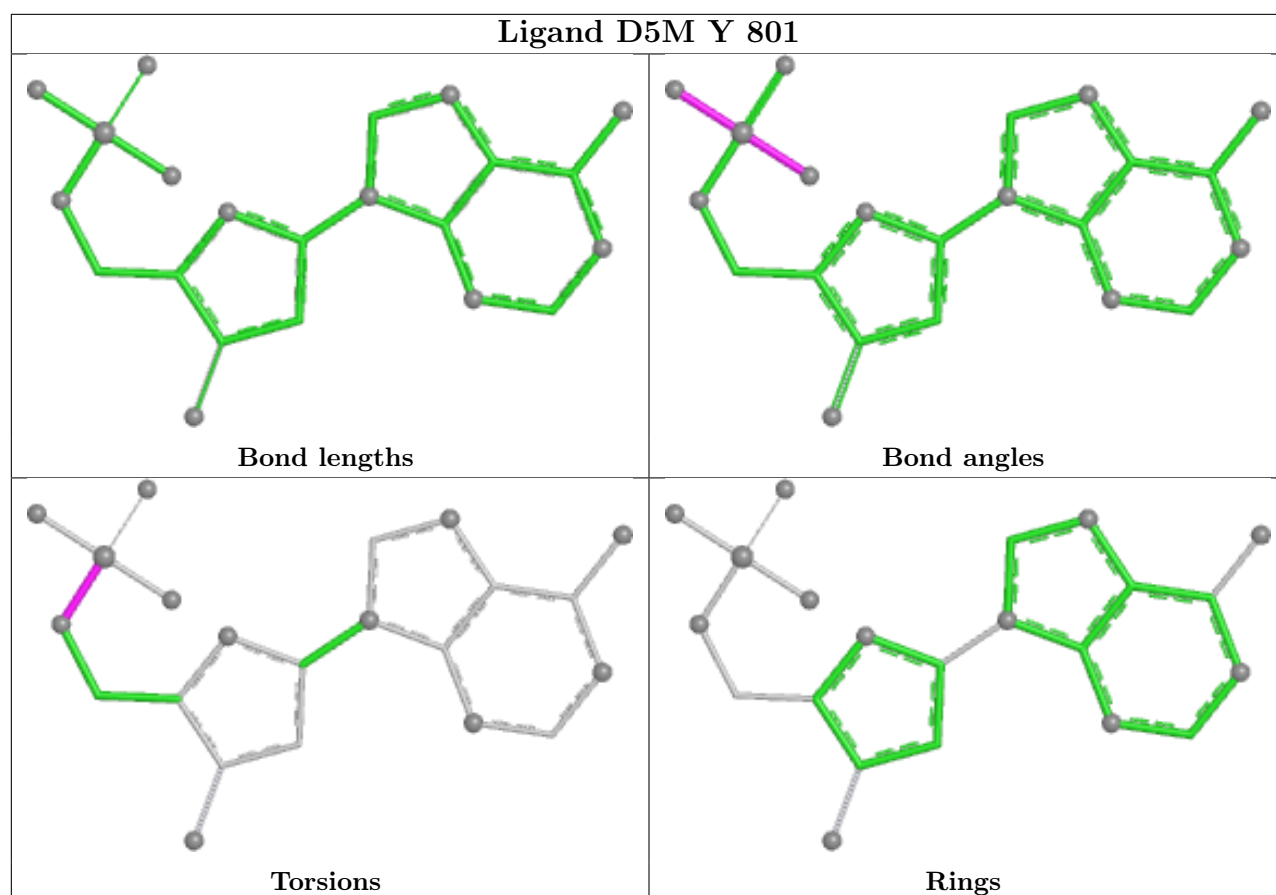


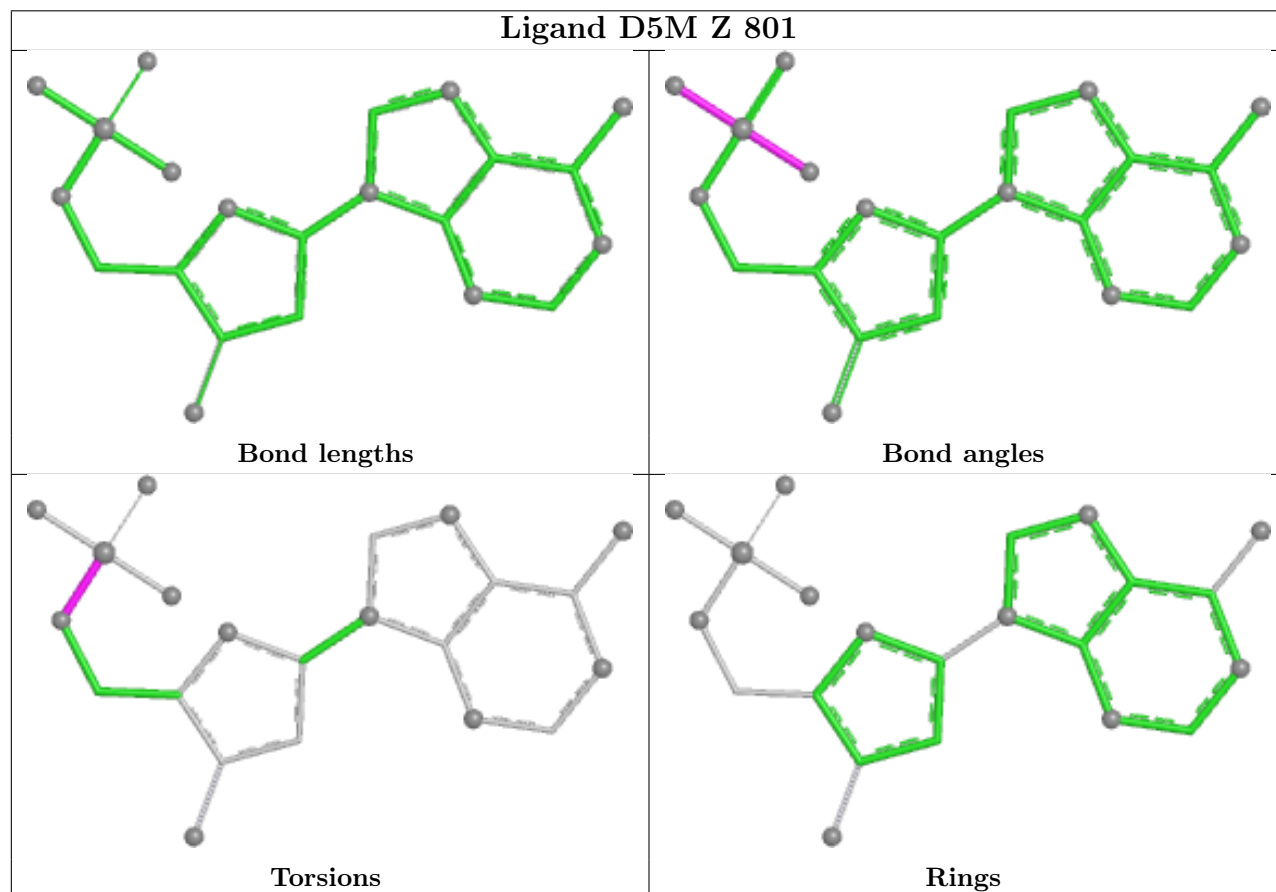
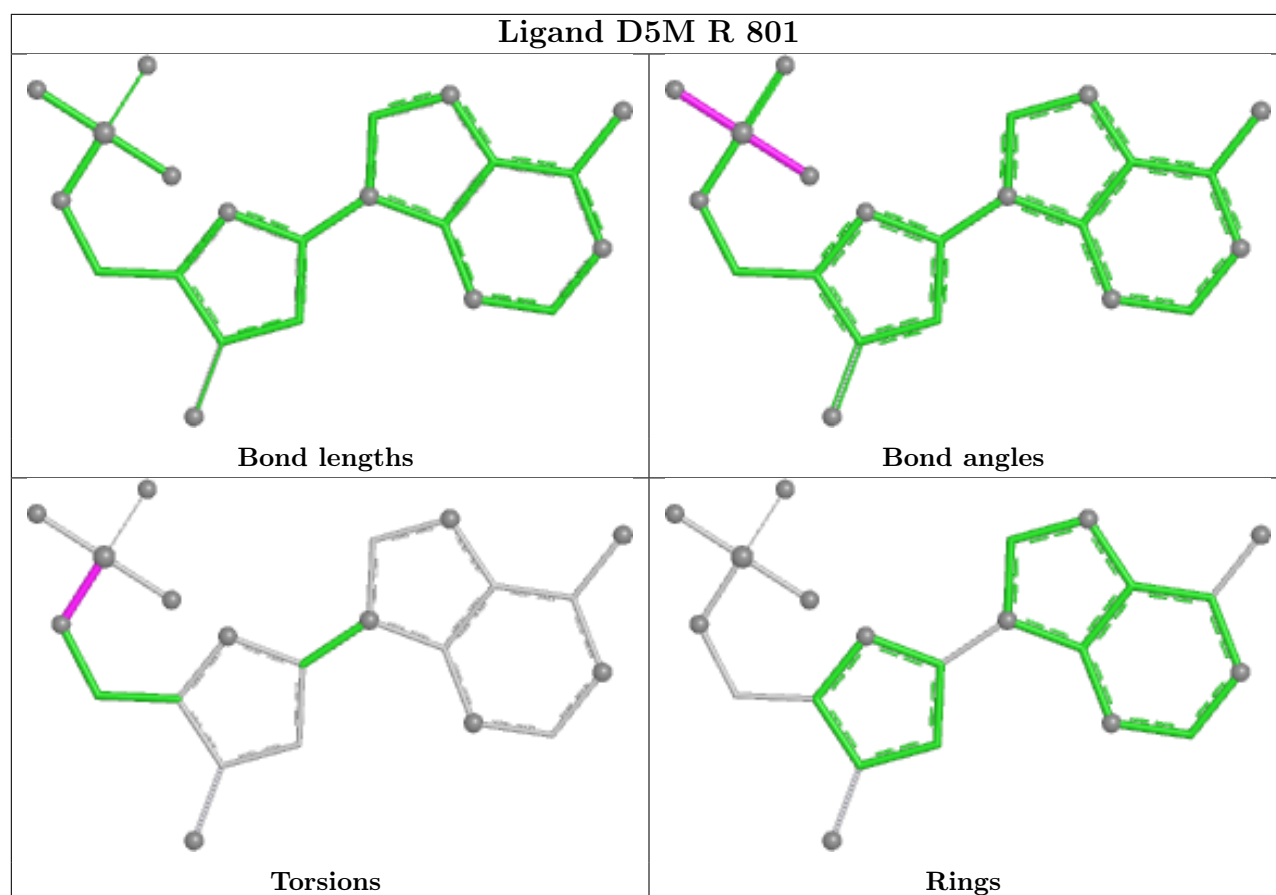


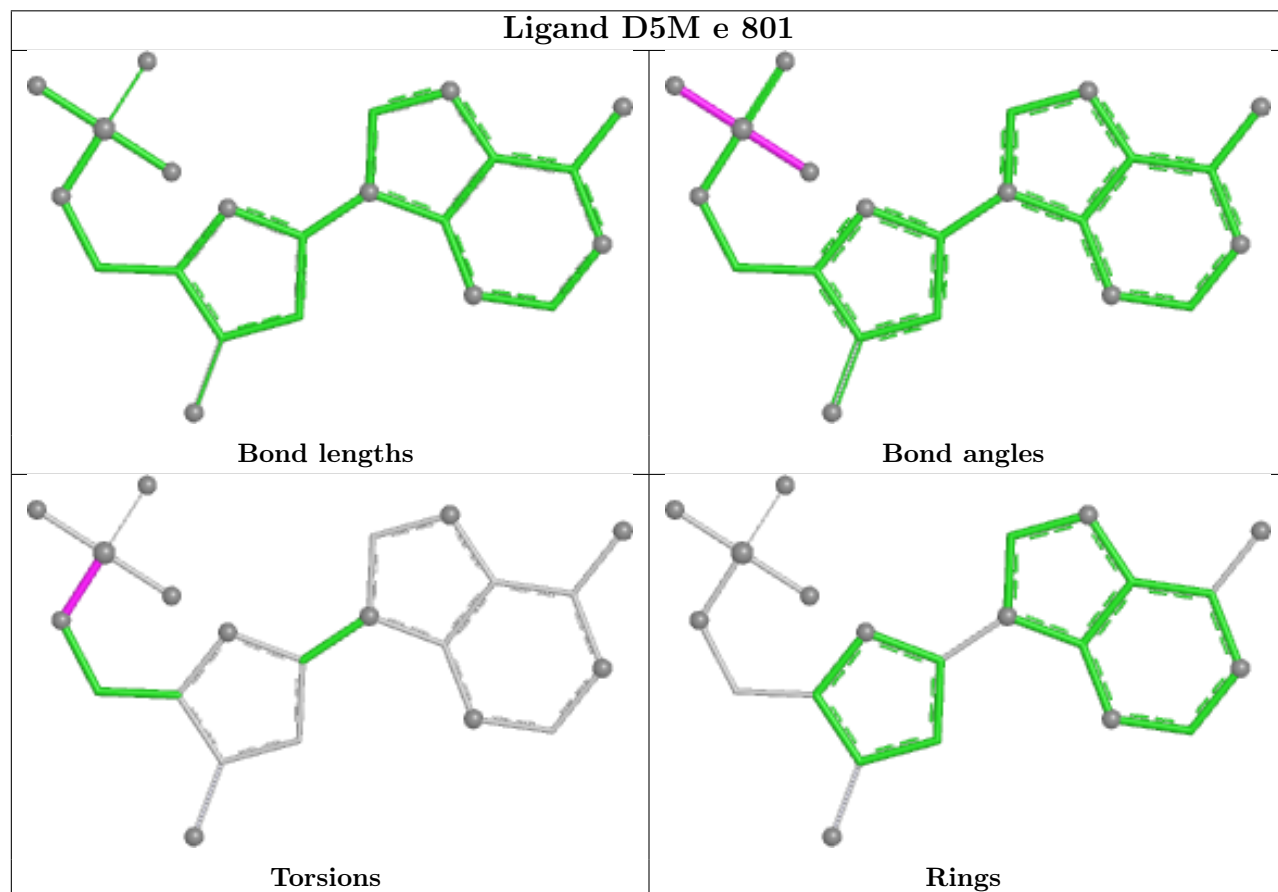
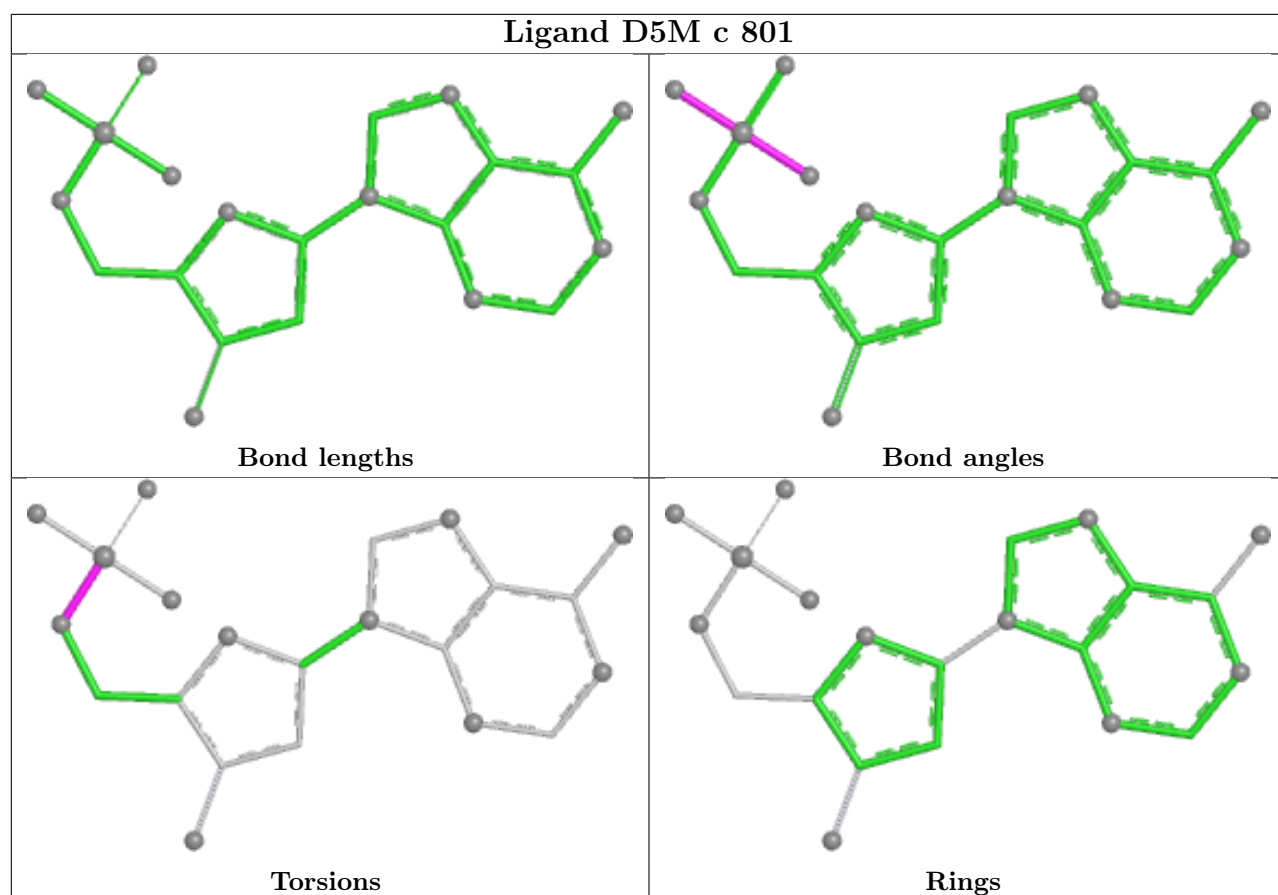




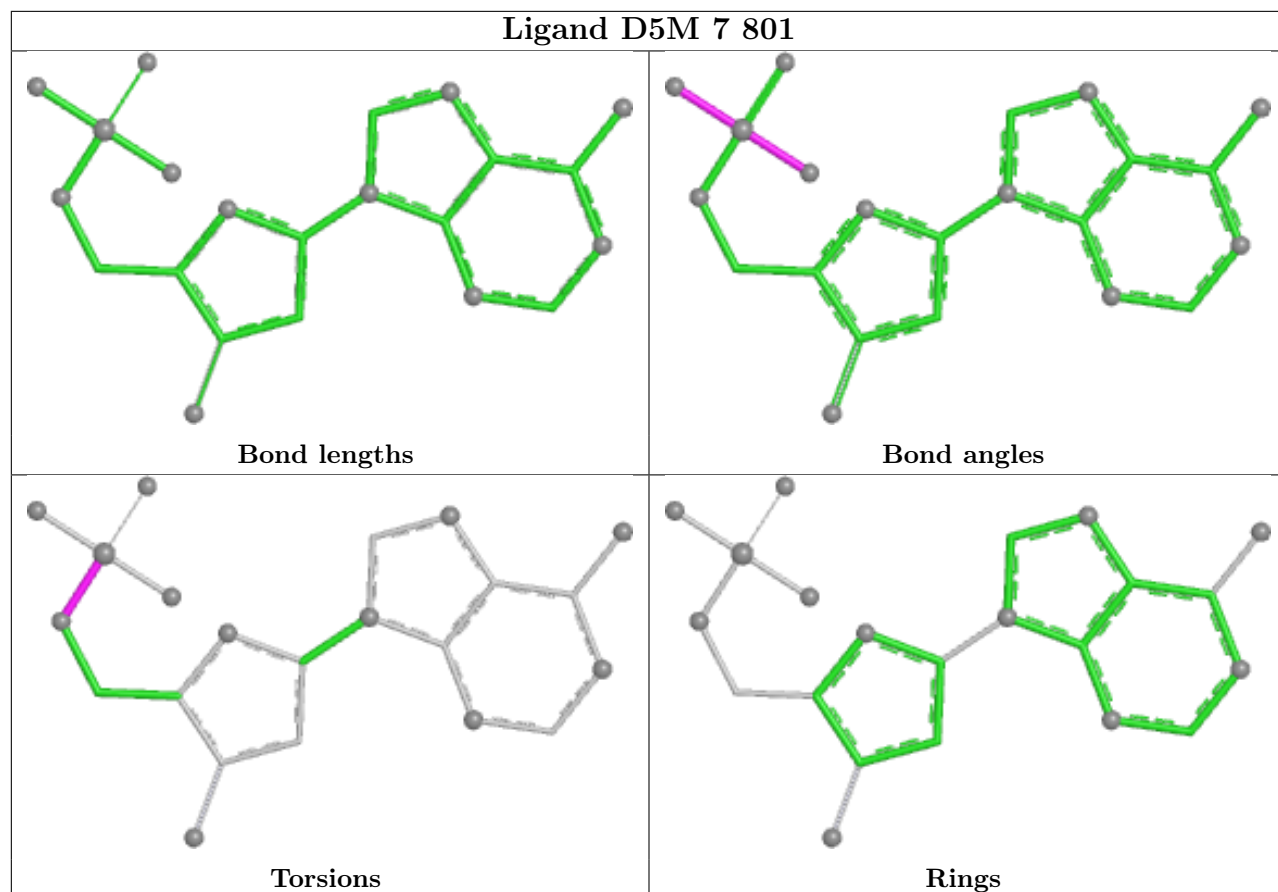




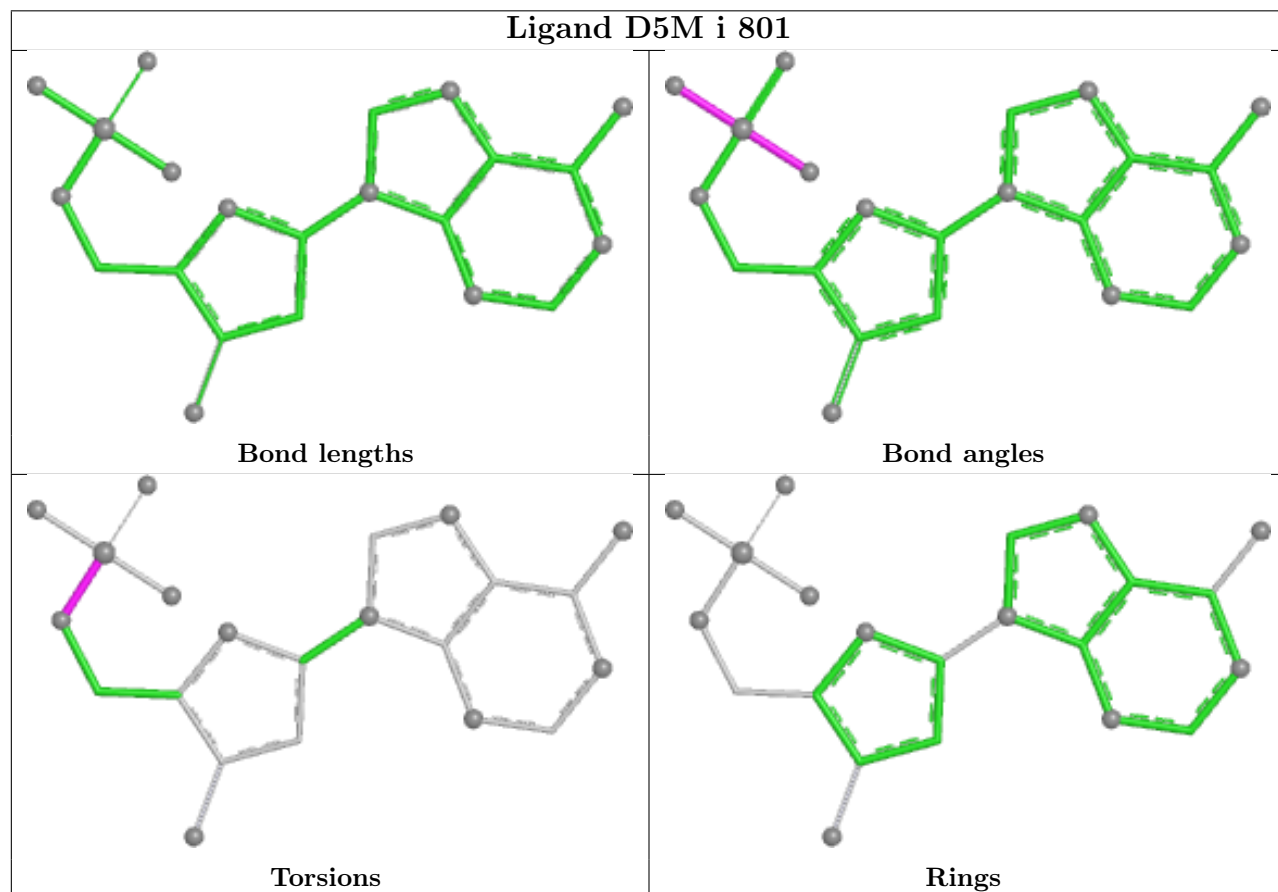


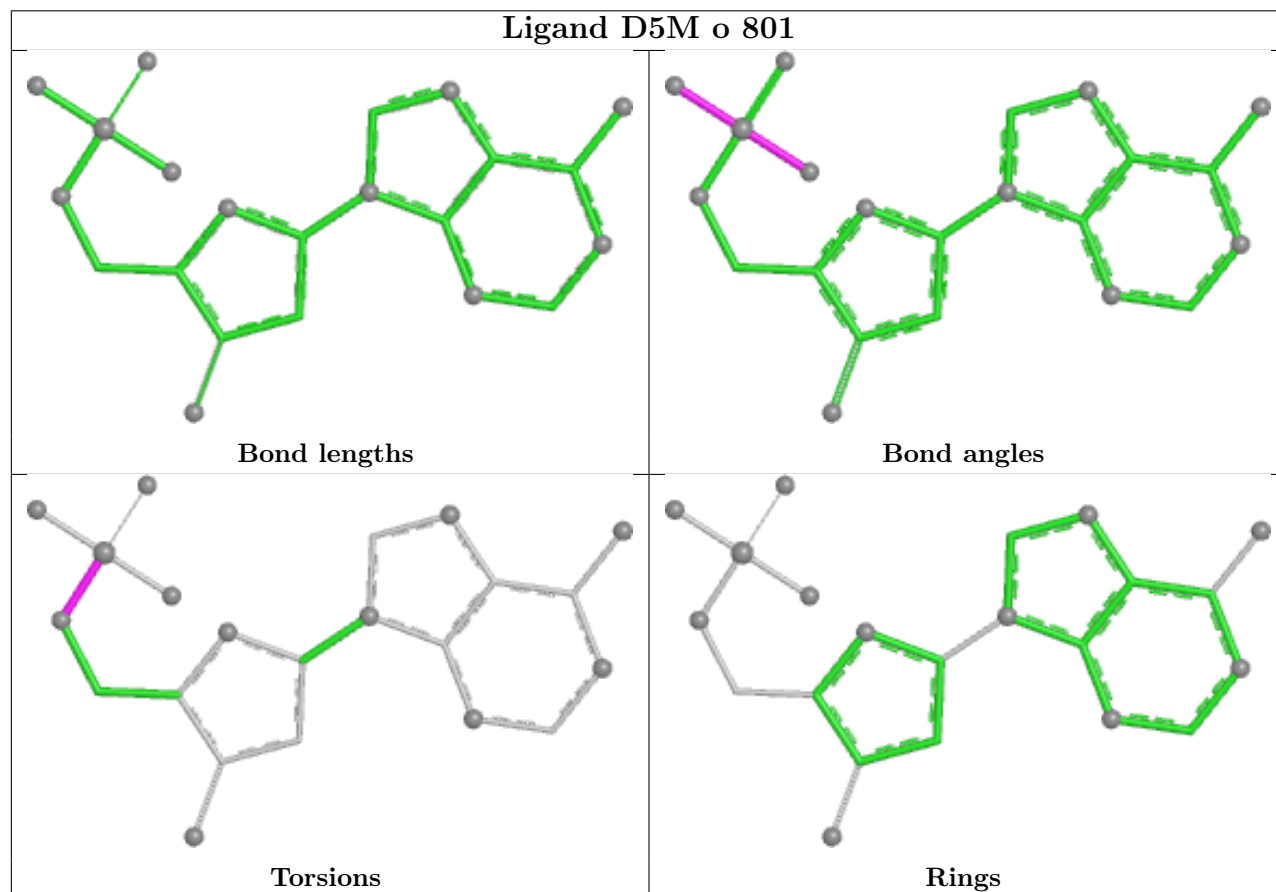
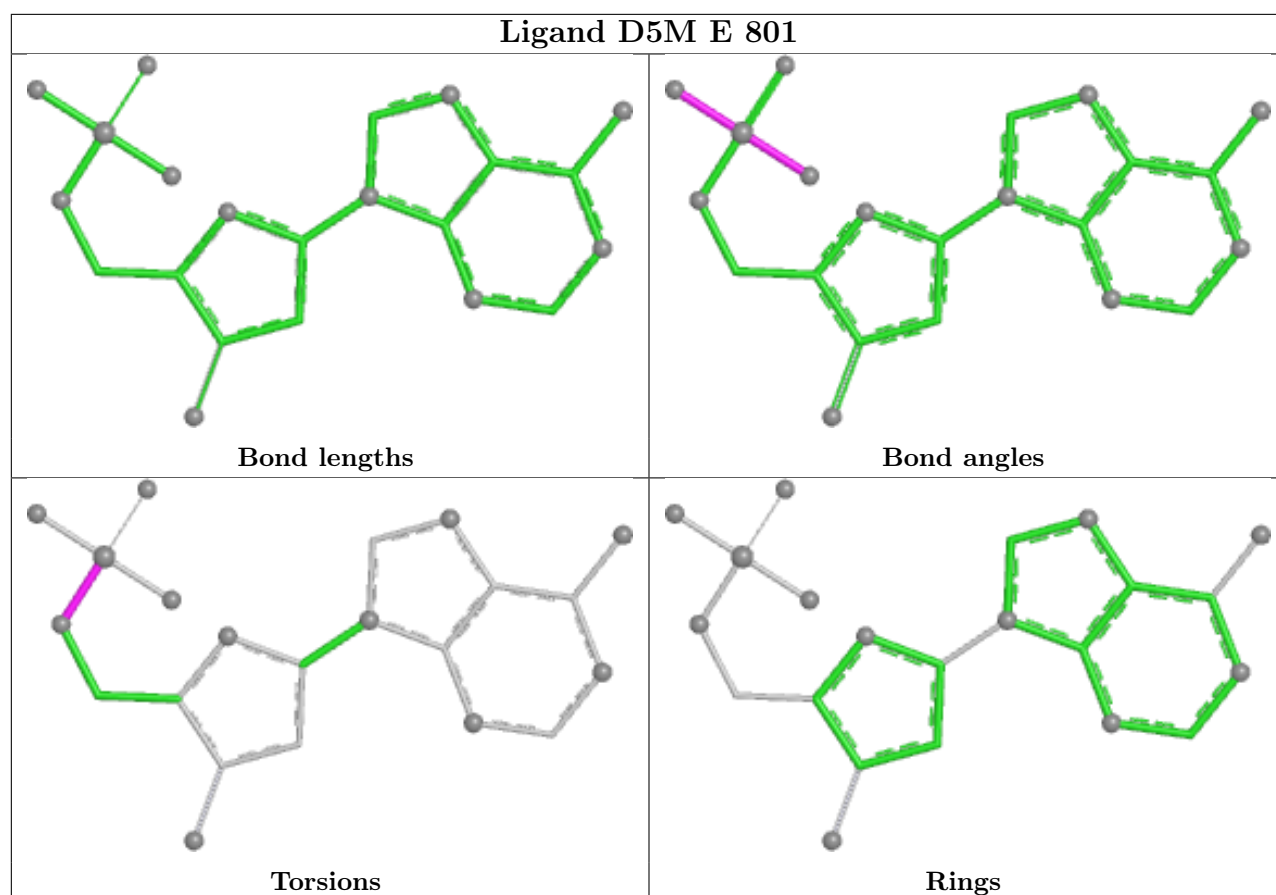


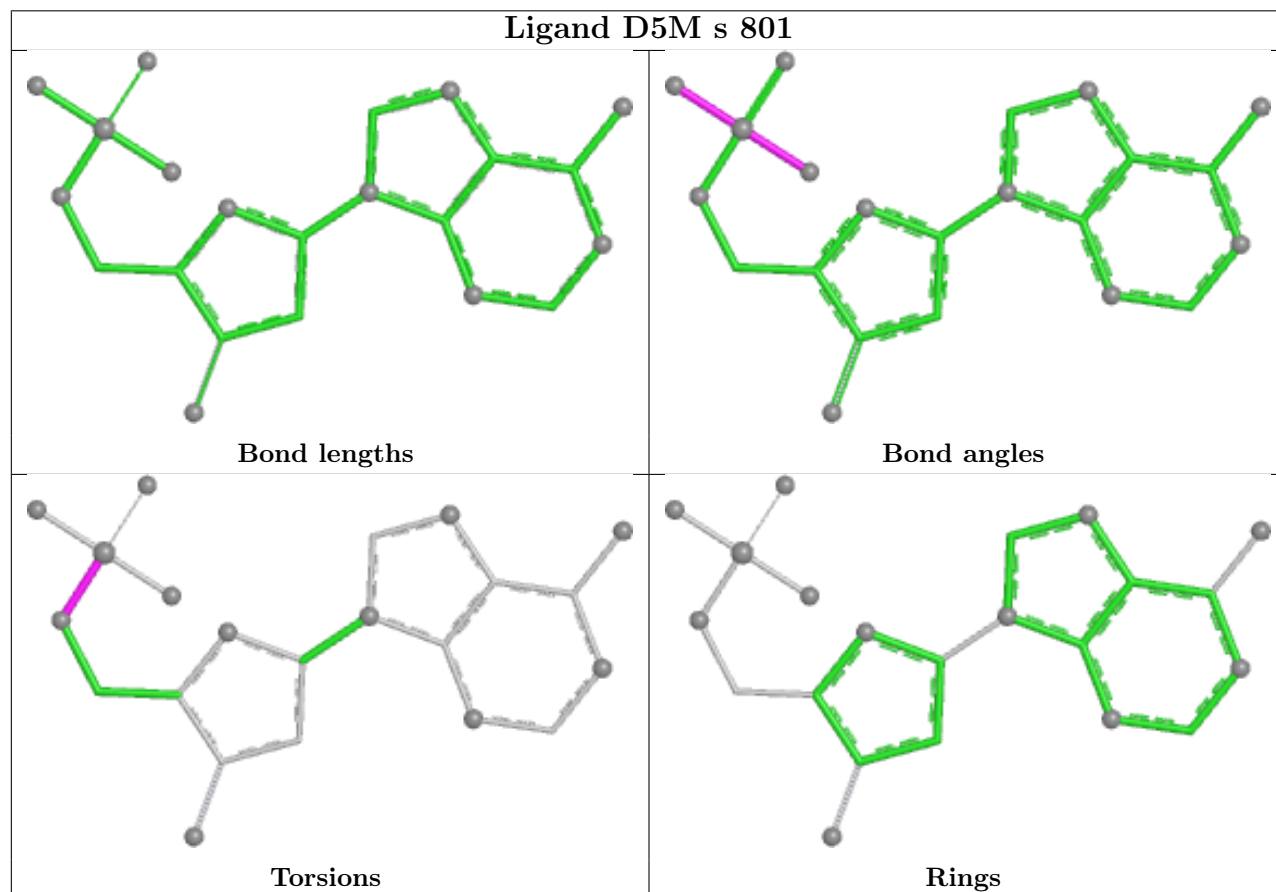
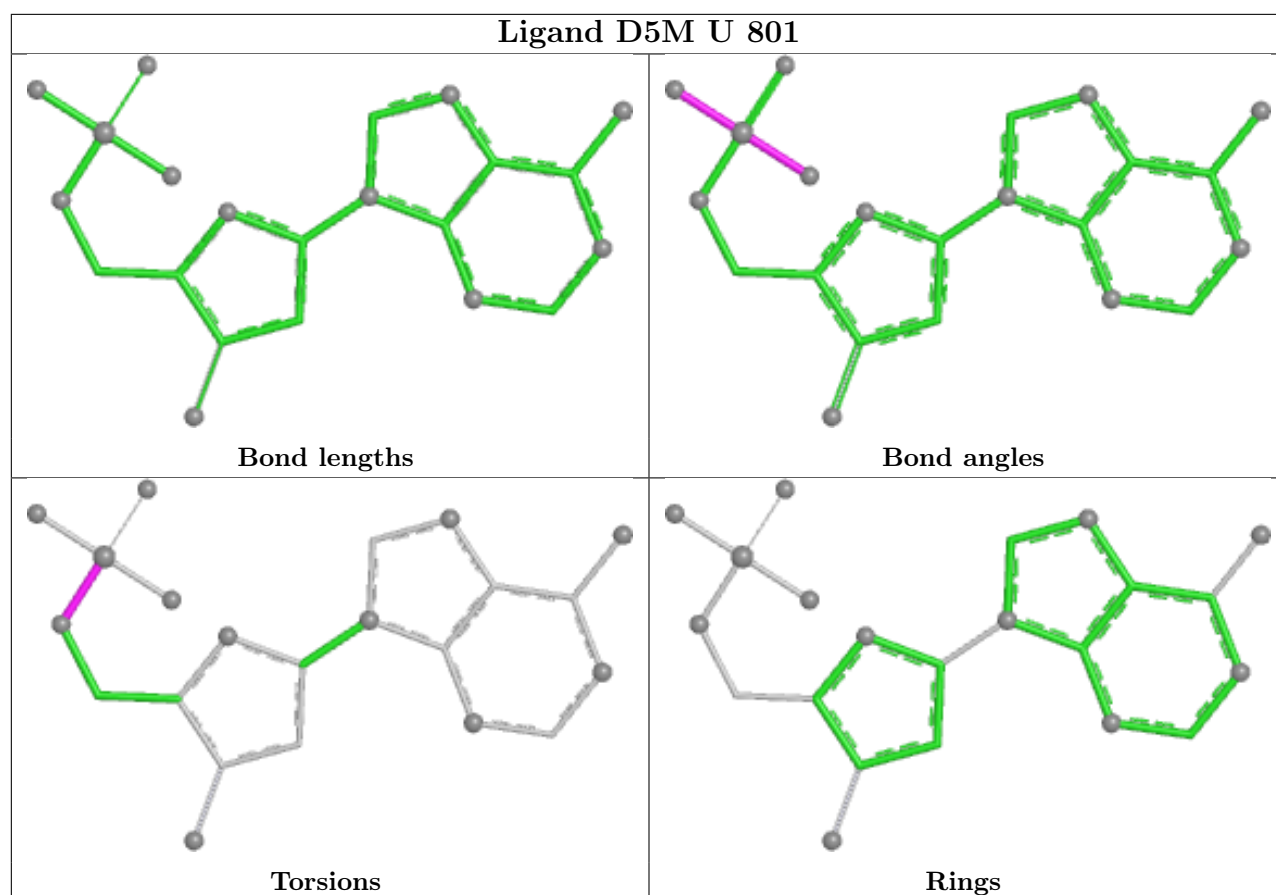
Ligand D5M 7 801

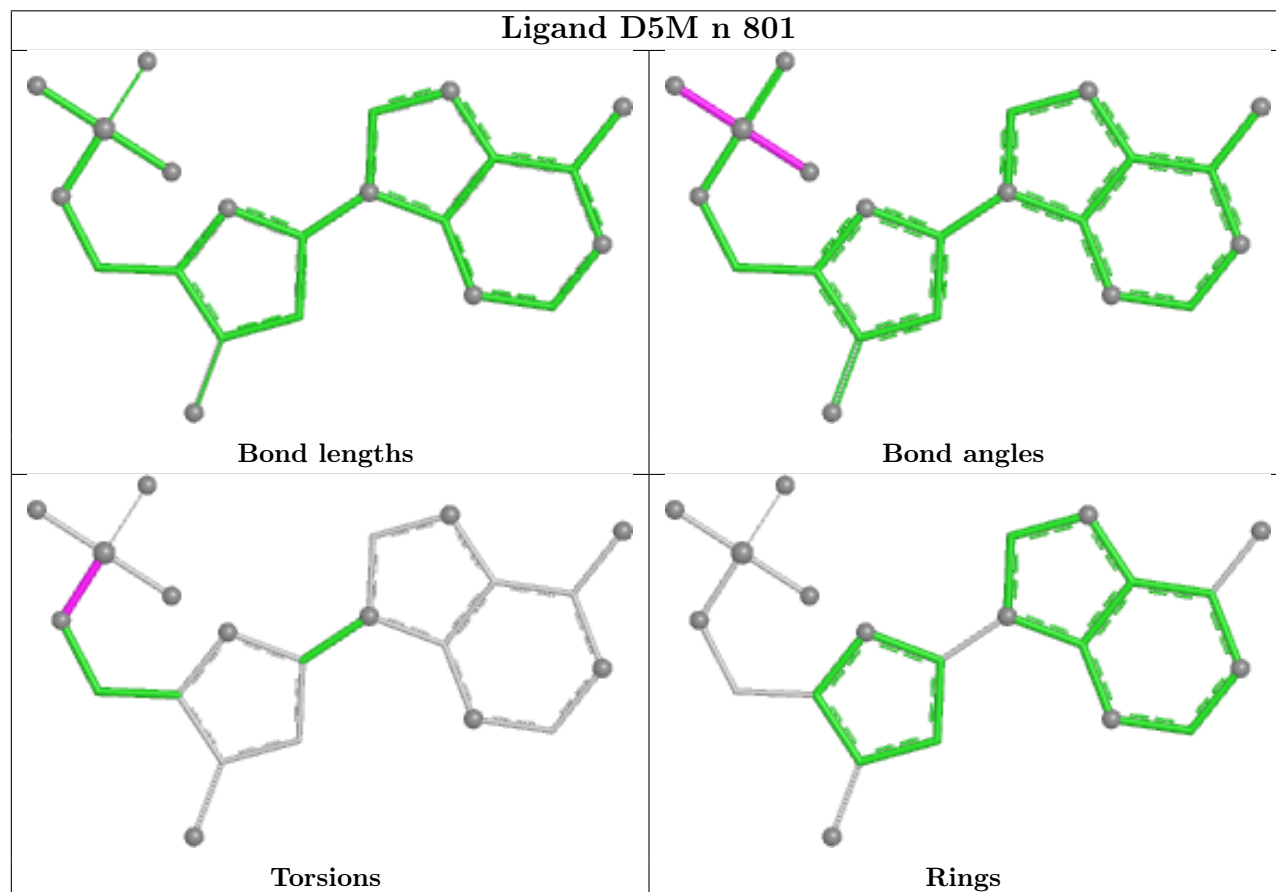
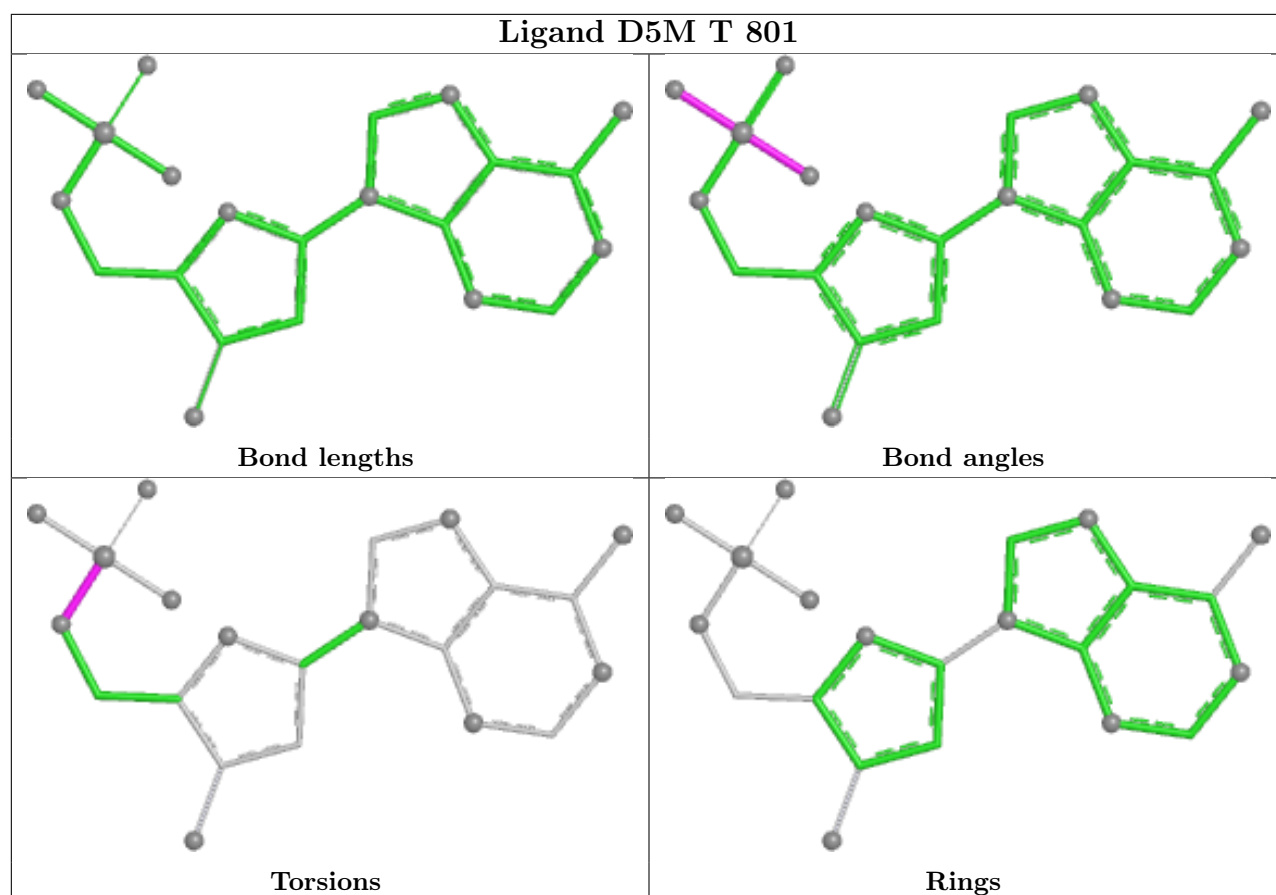


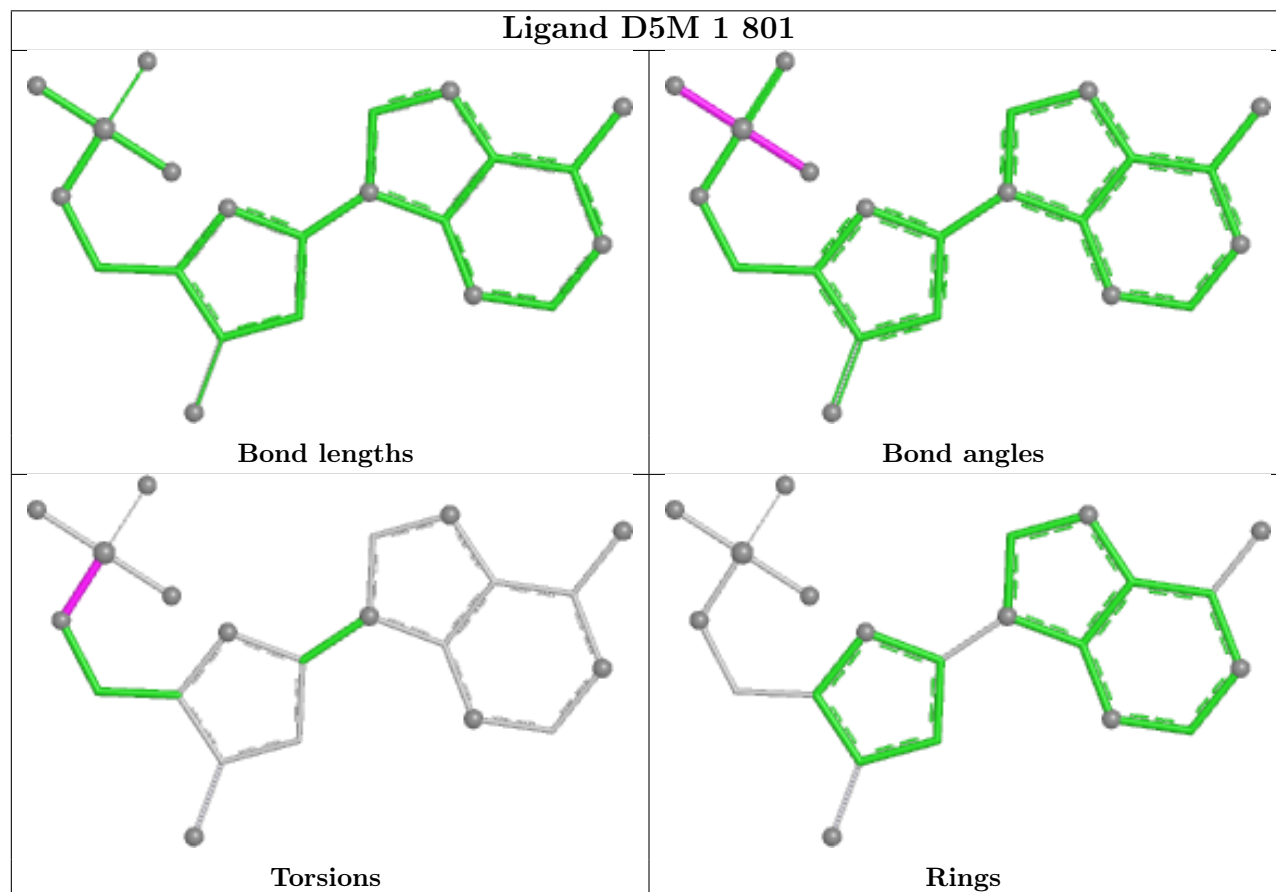
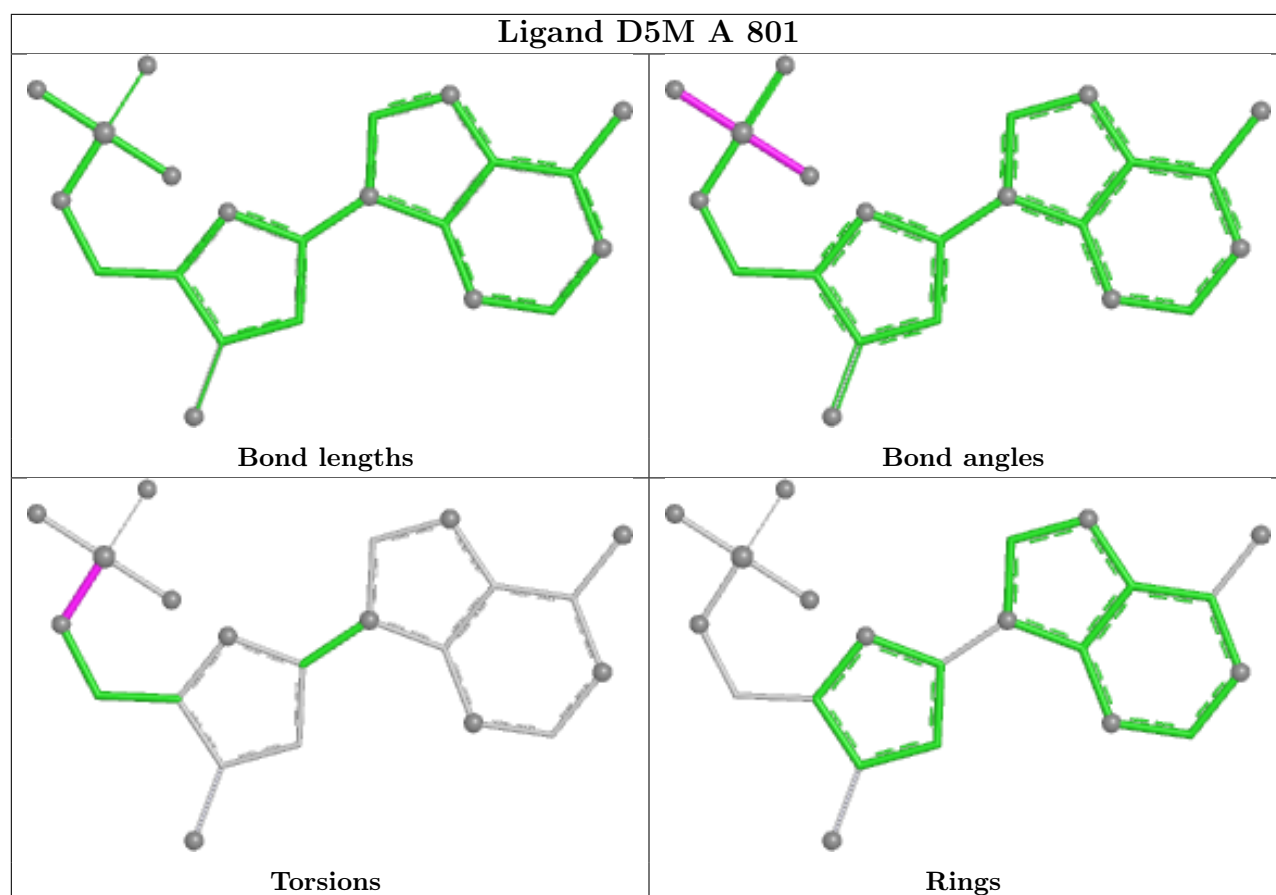
Ligand D5M i 801

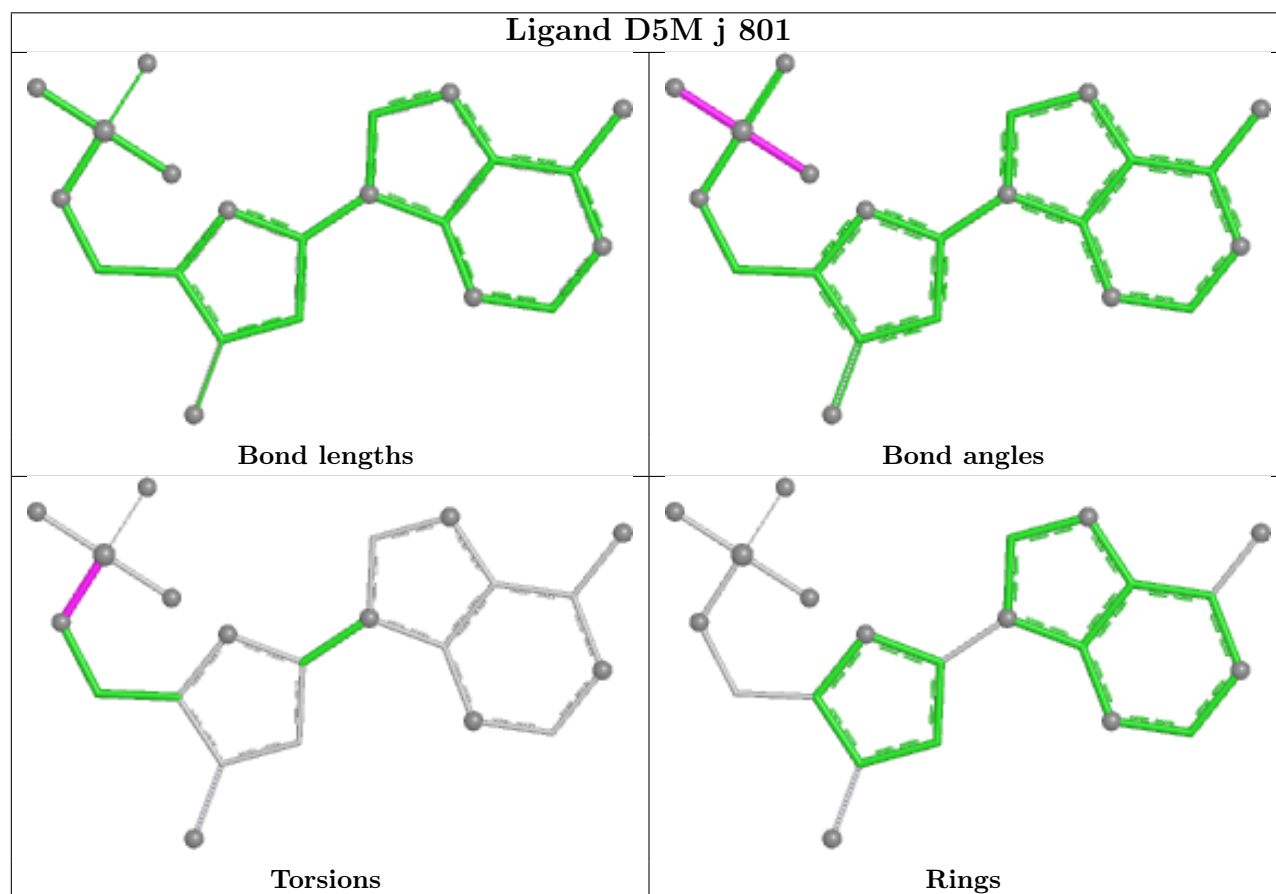
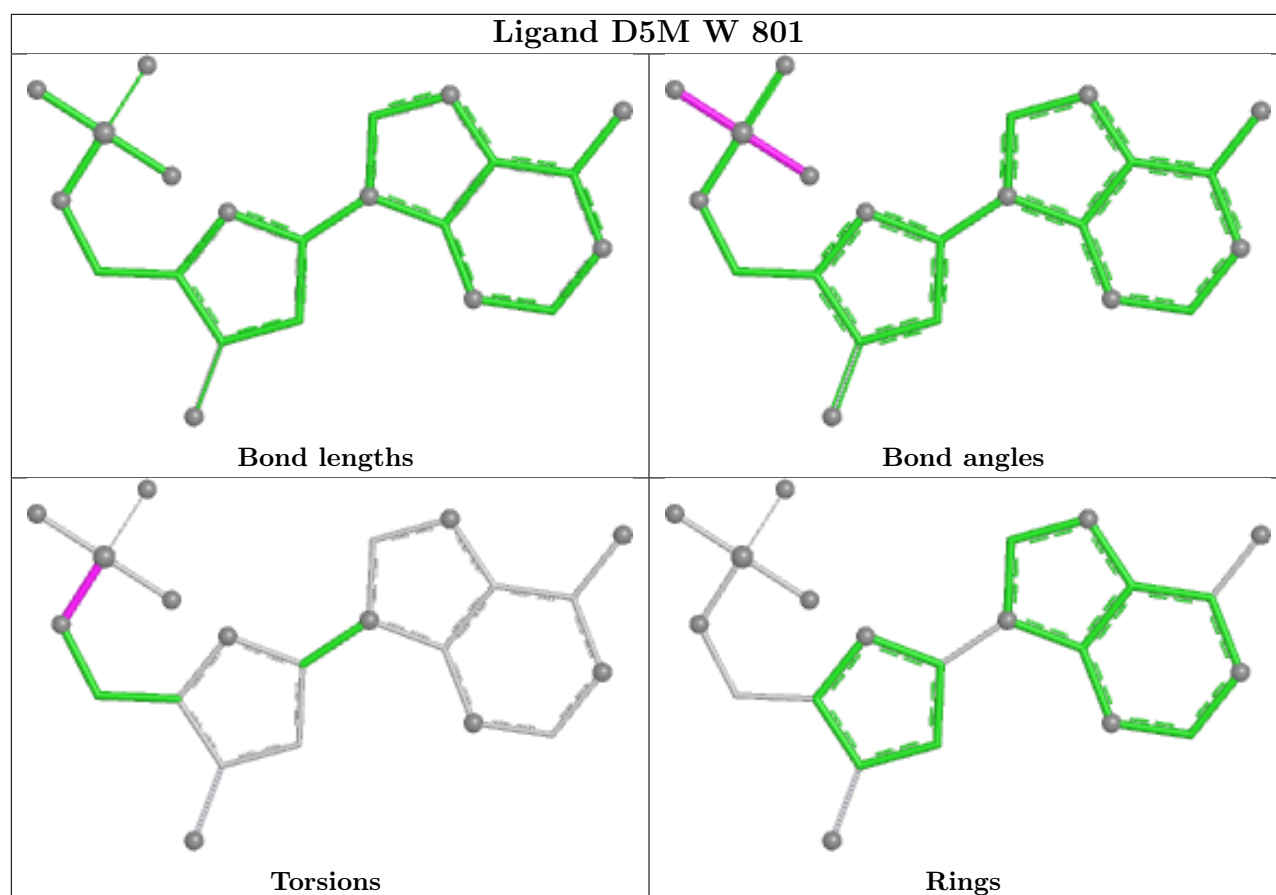


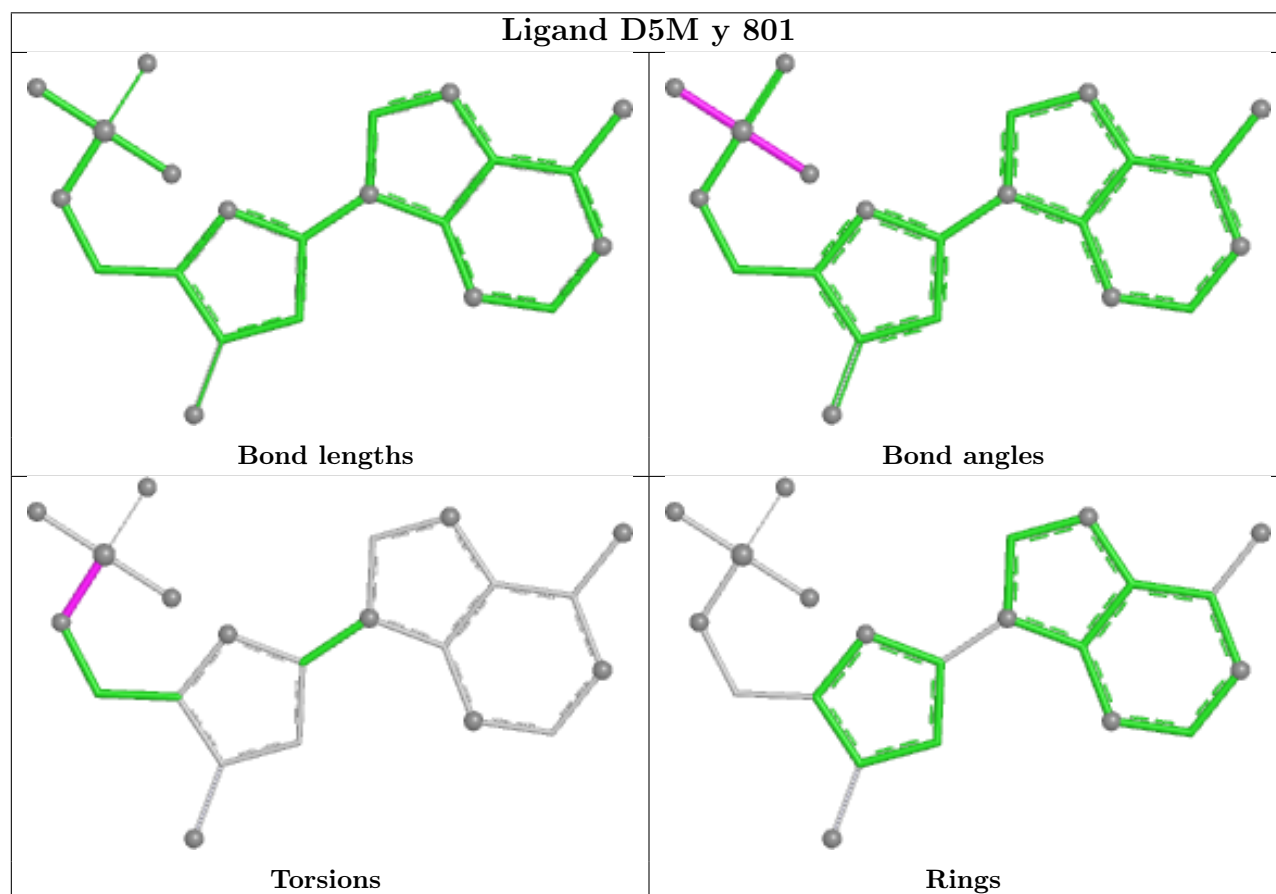
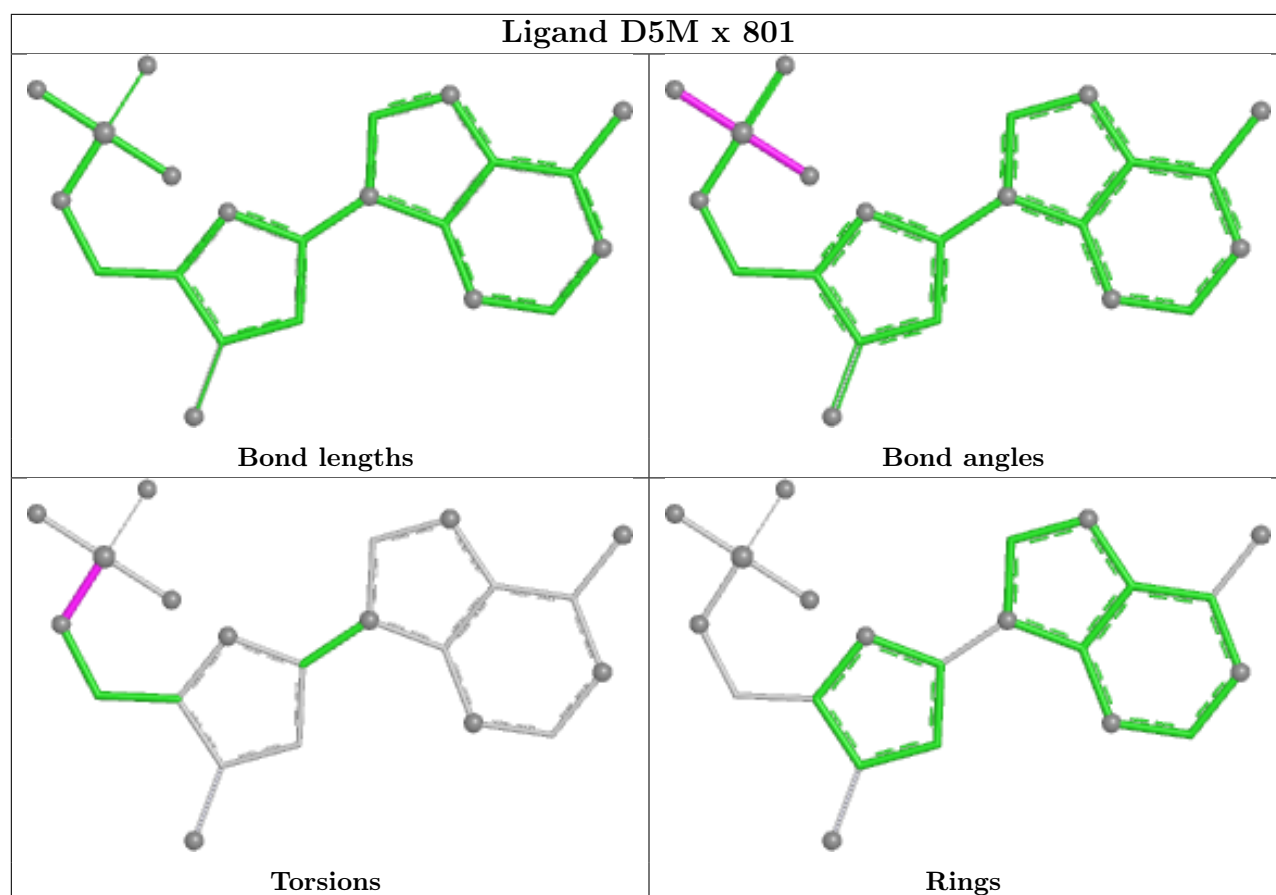




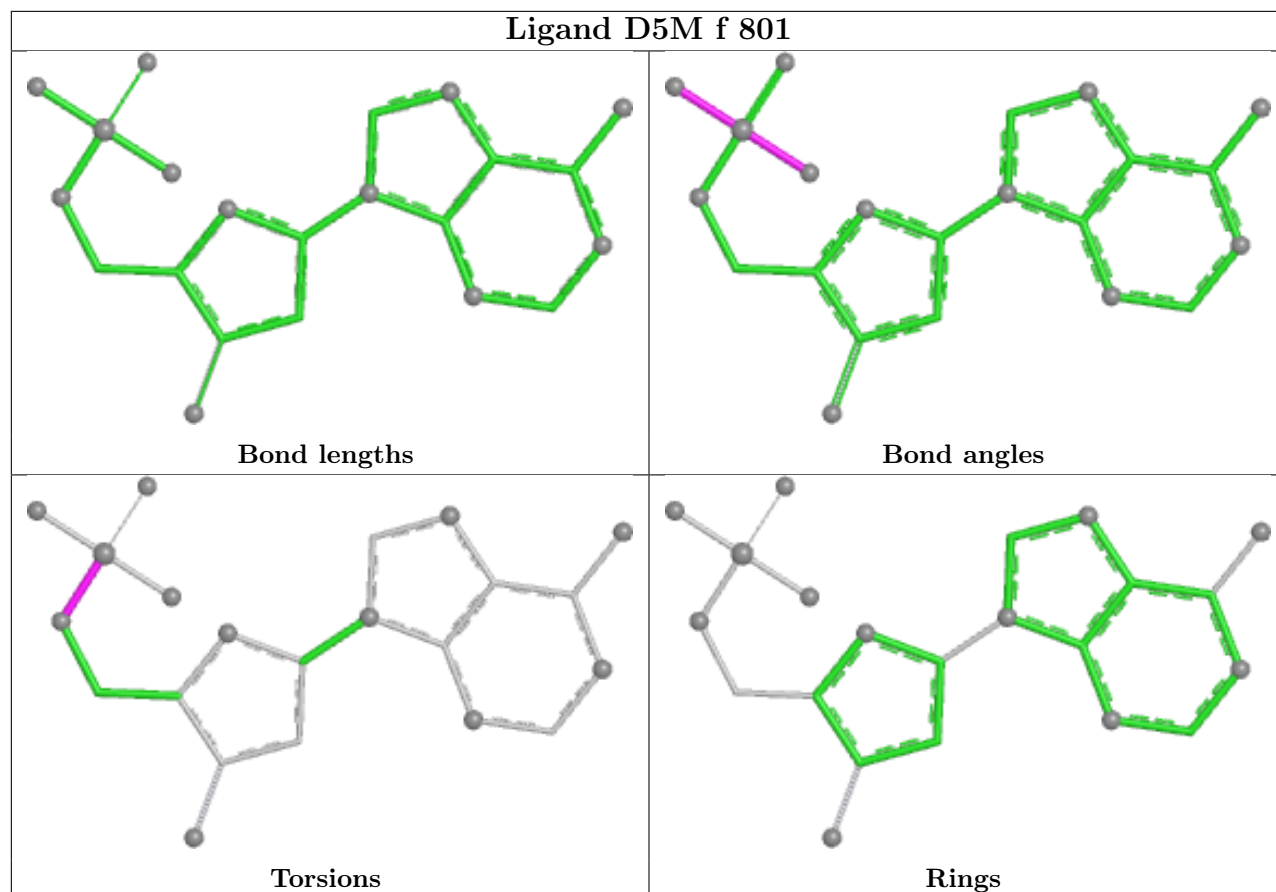




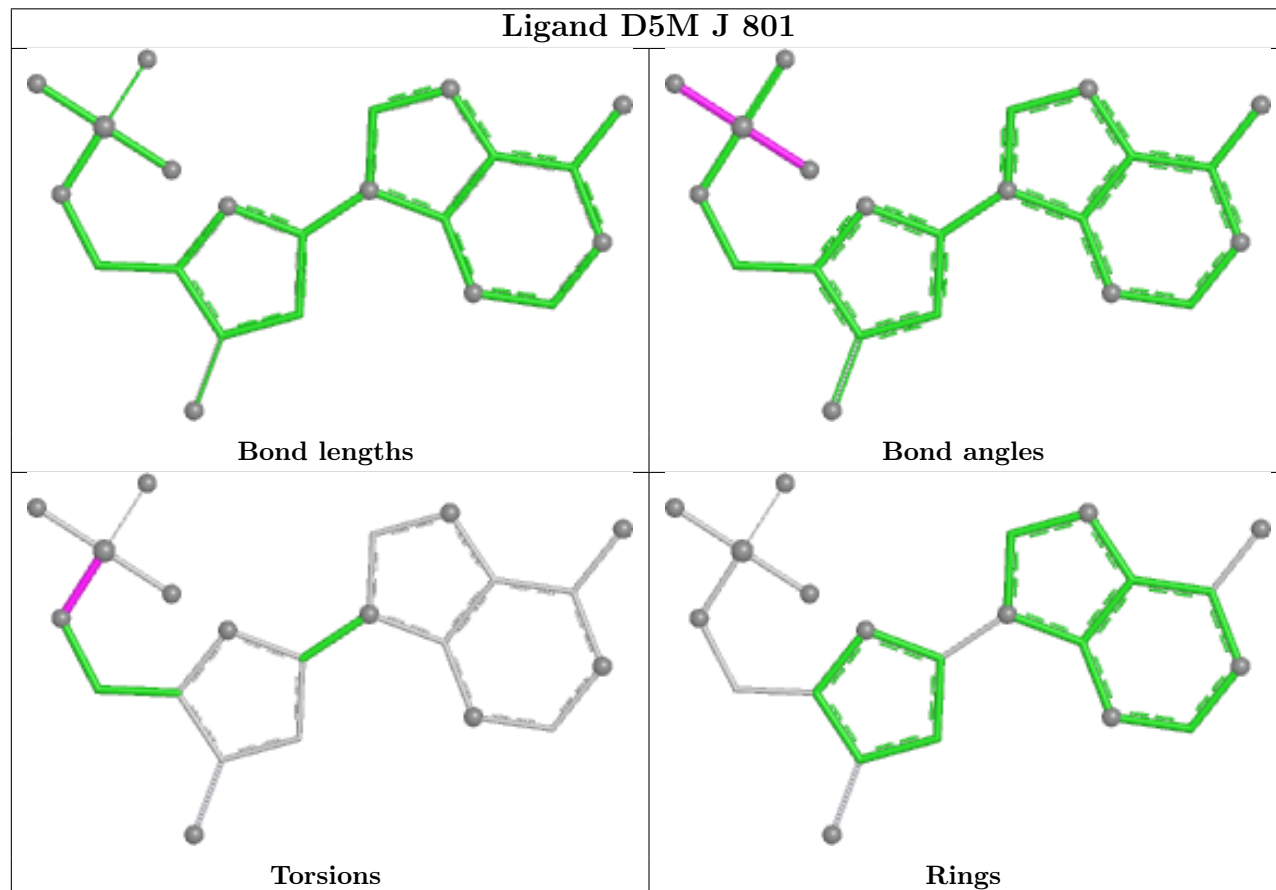


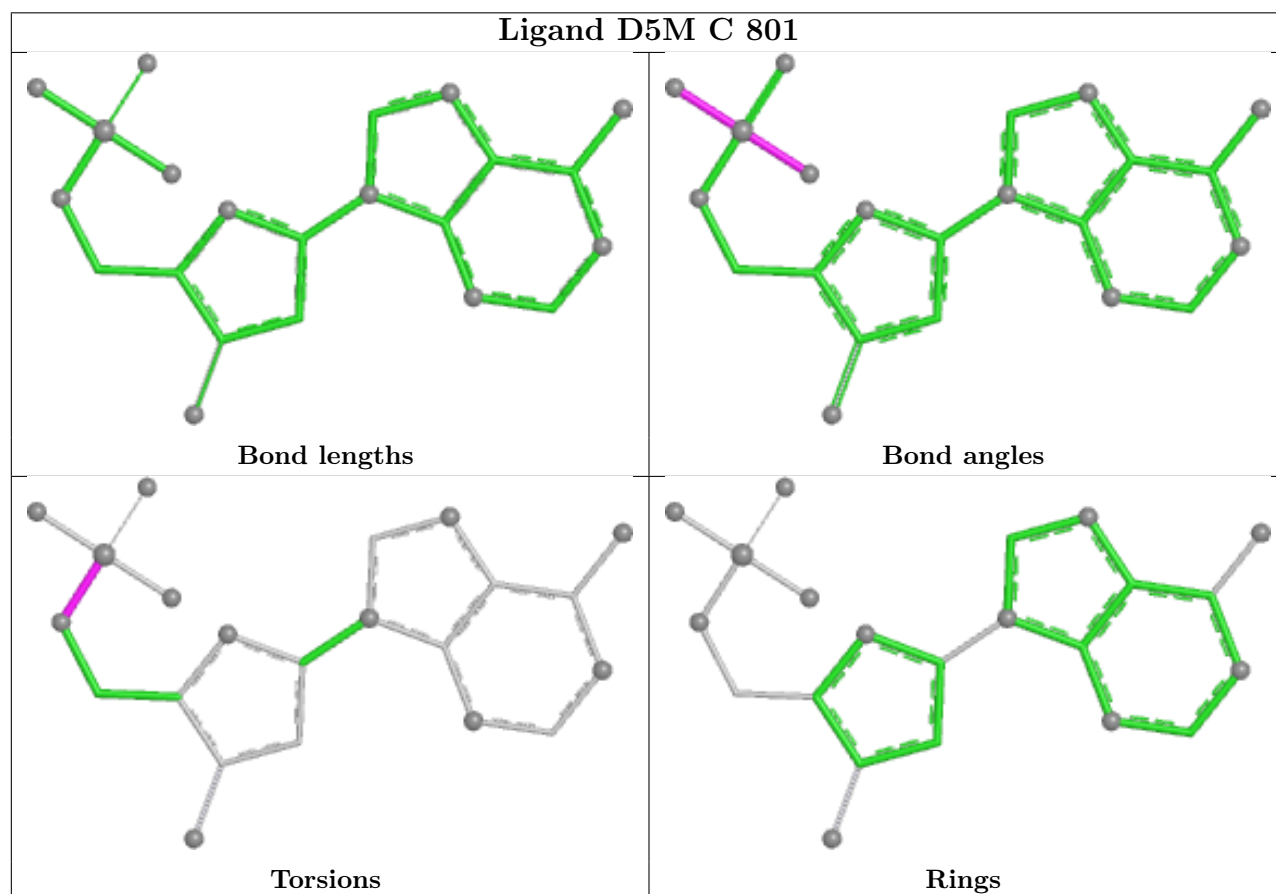
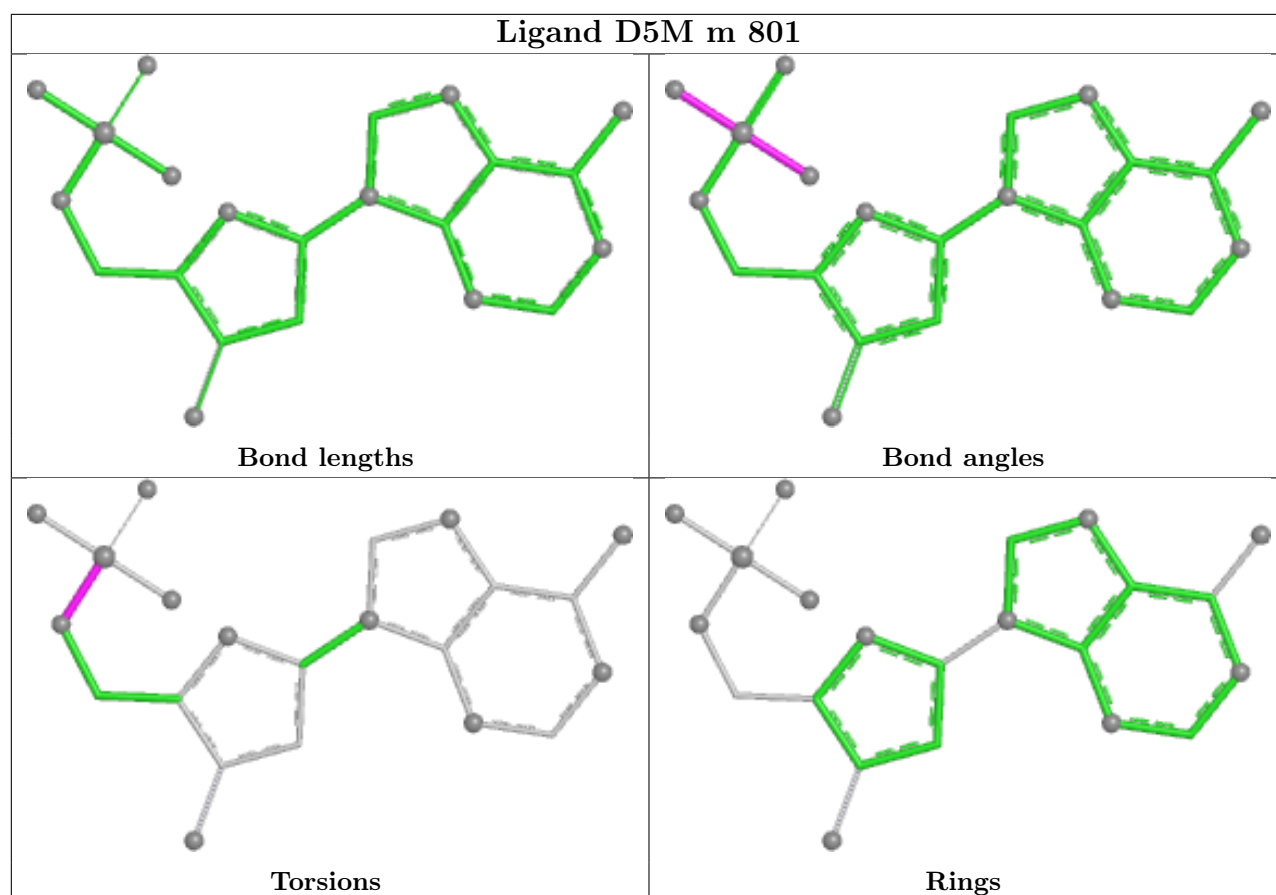


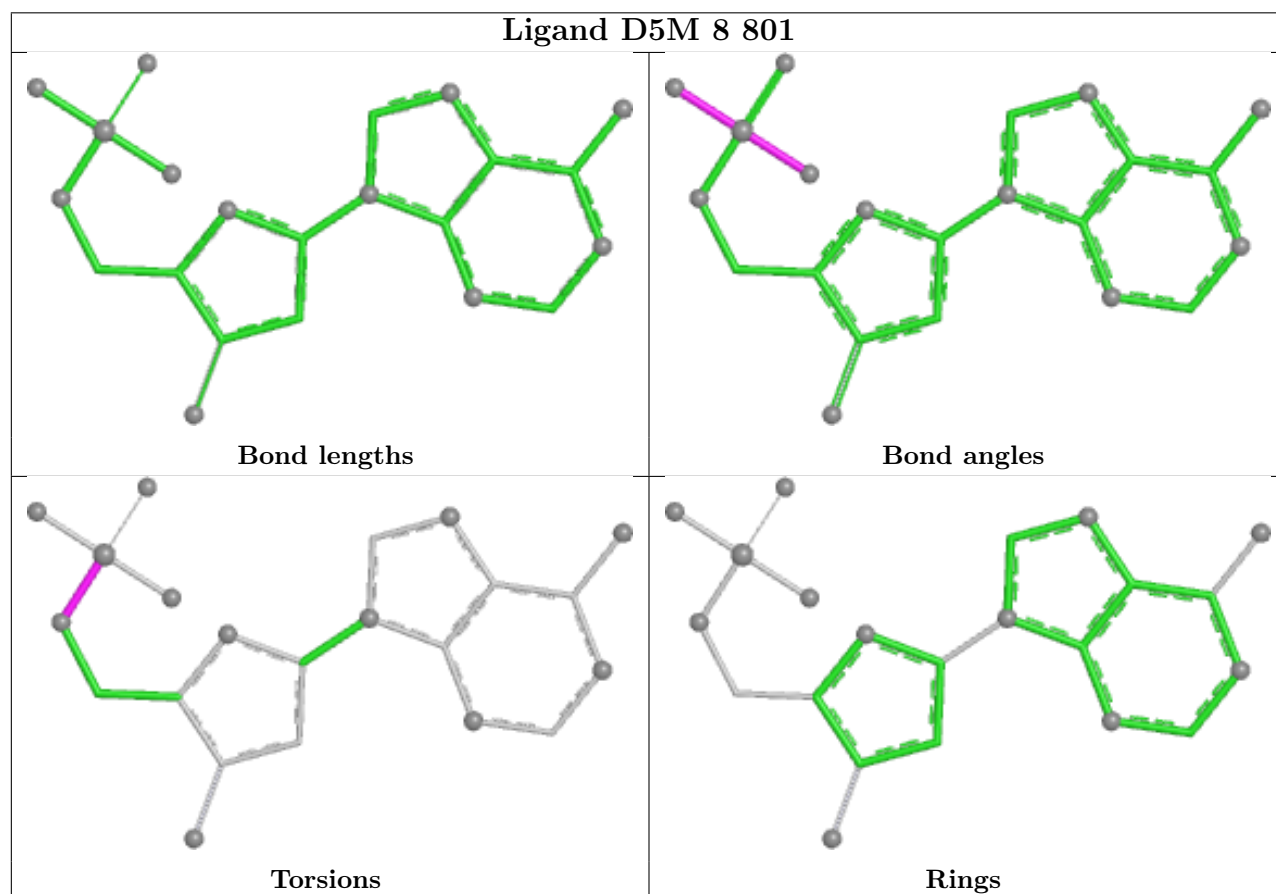
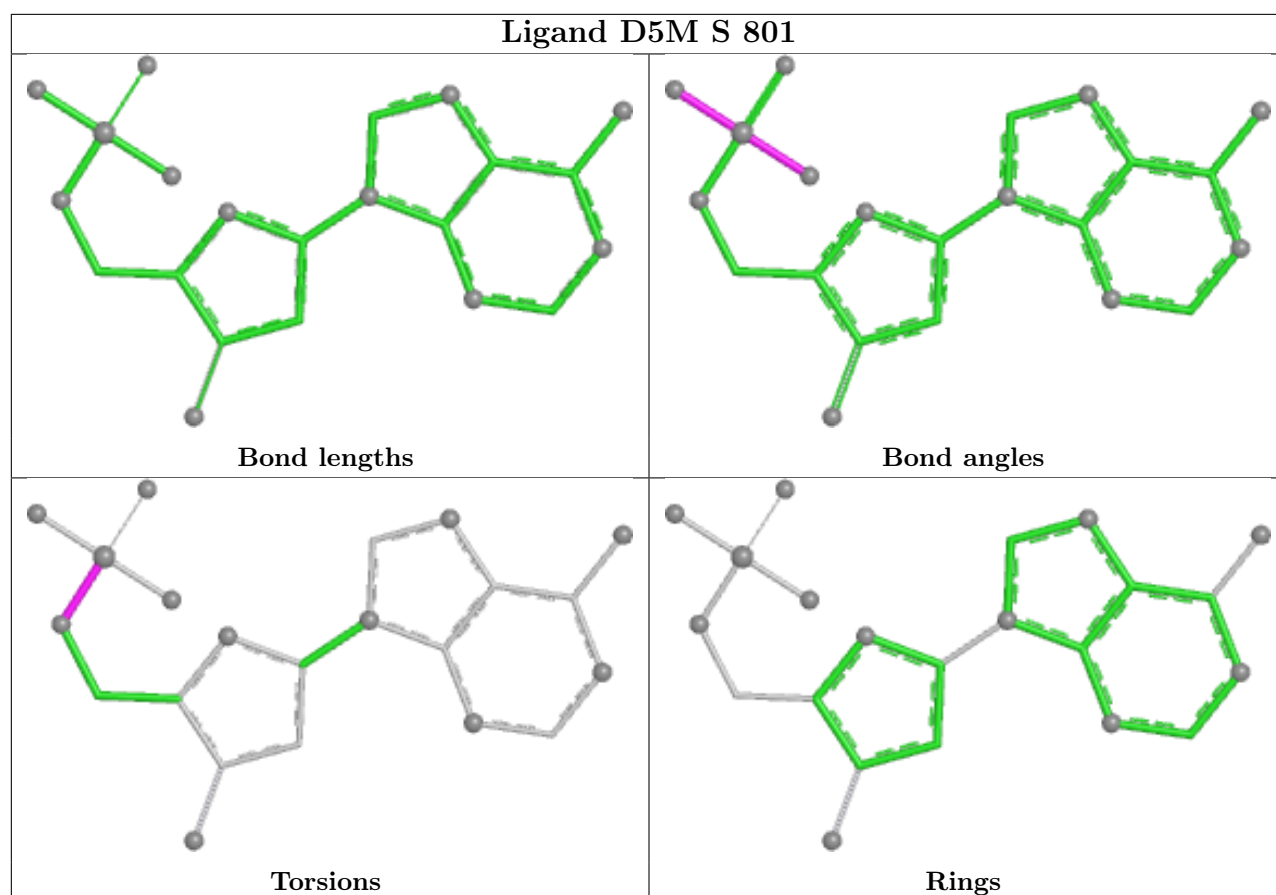
Ligand D5M f 801

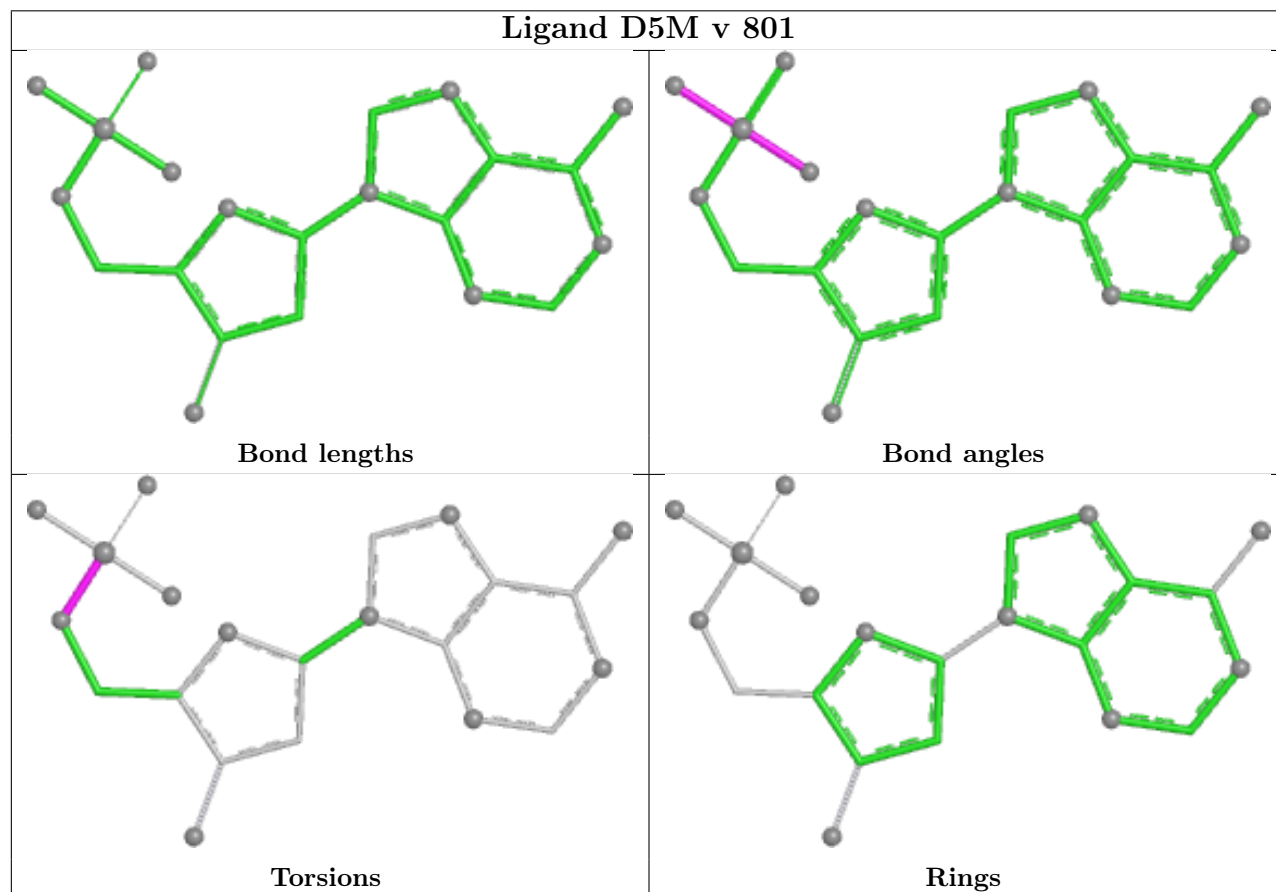
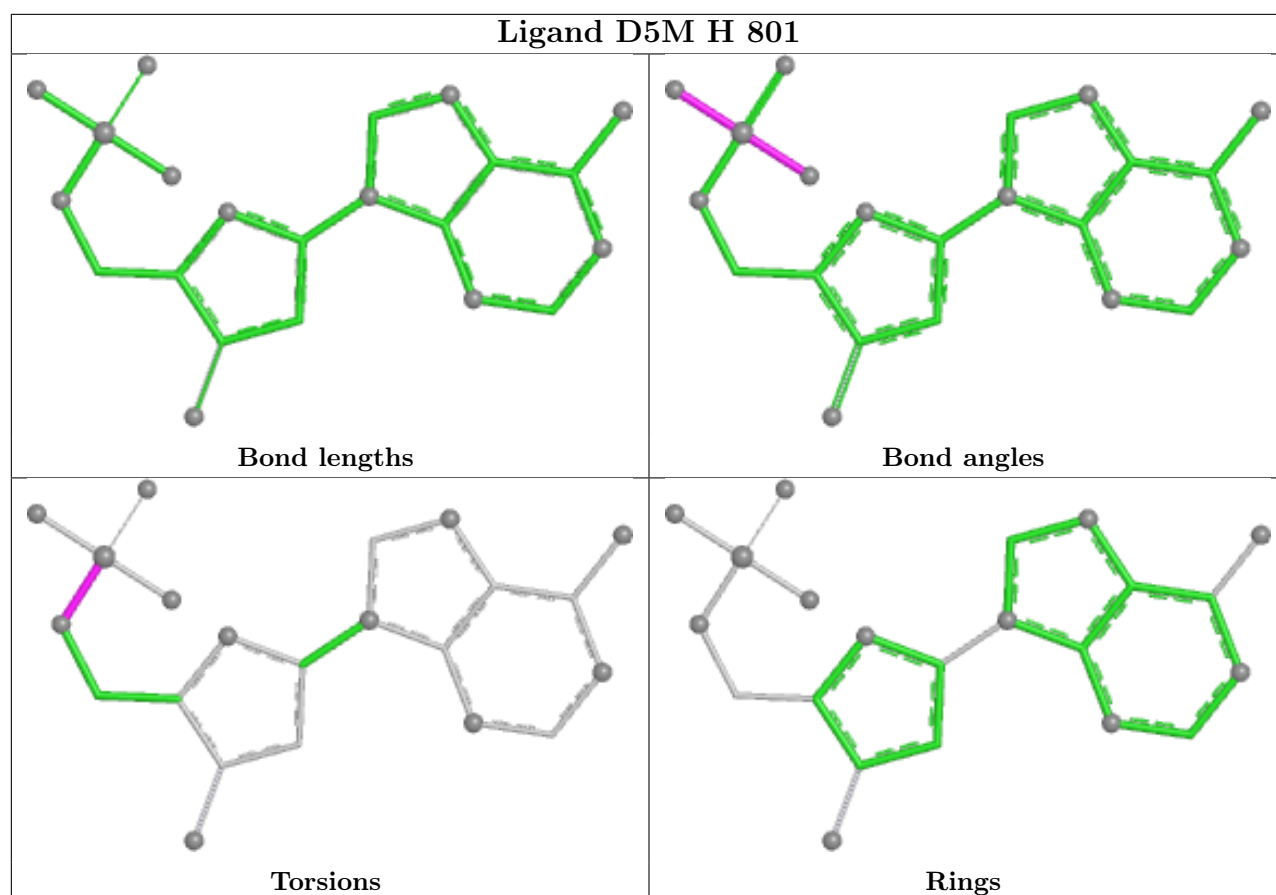


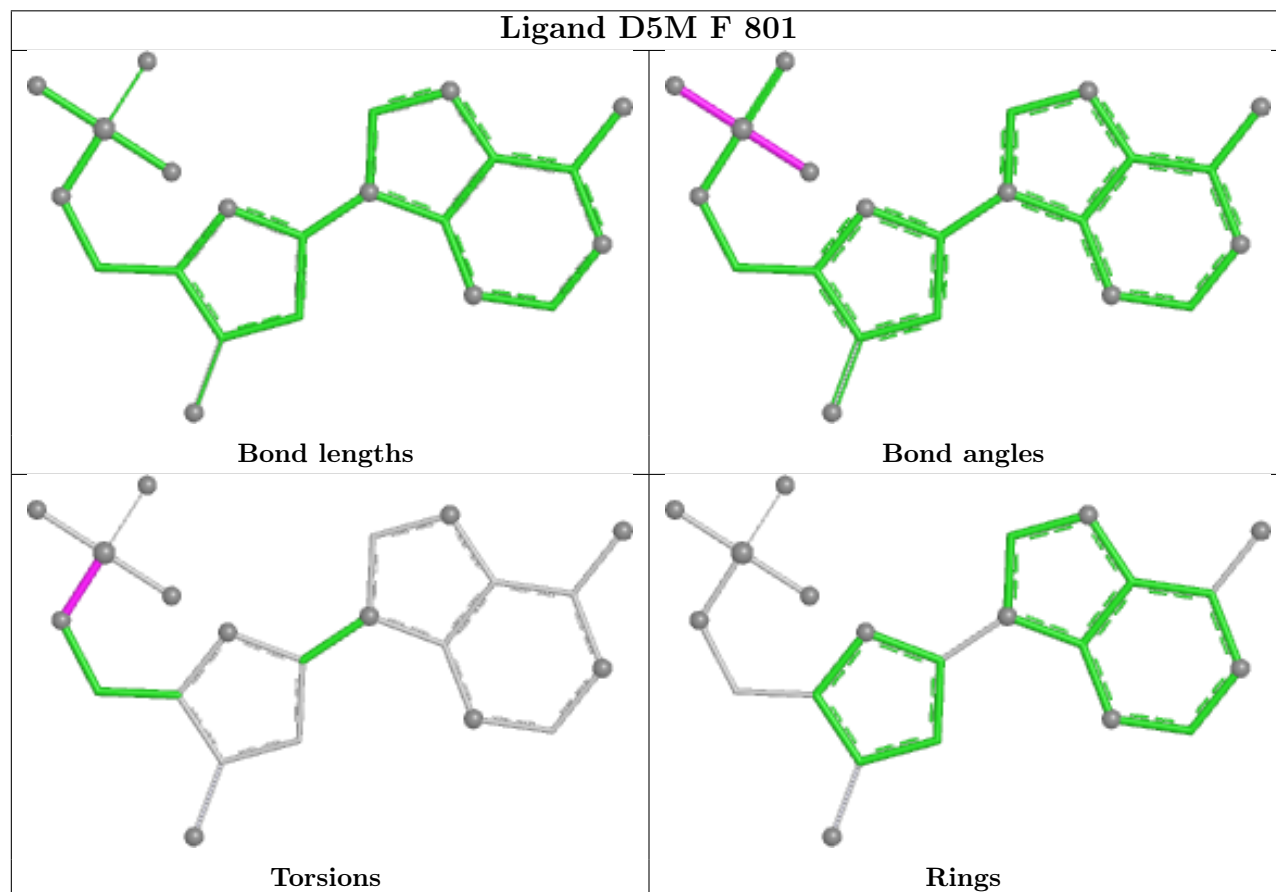
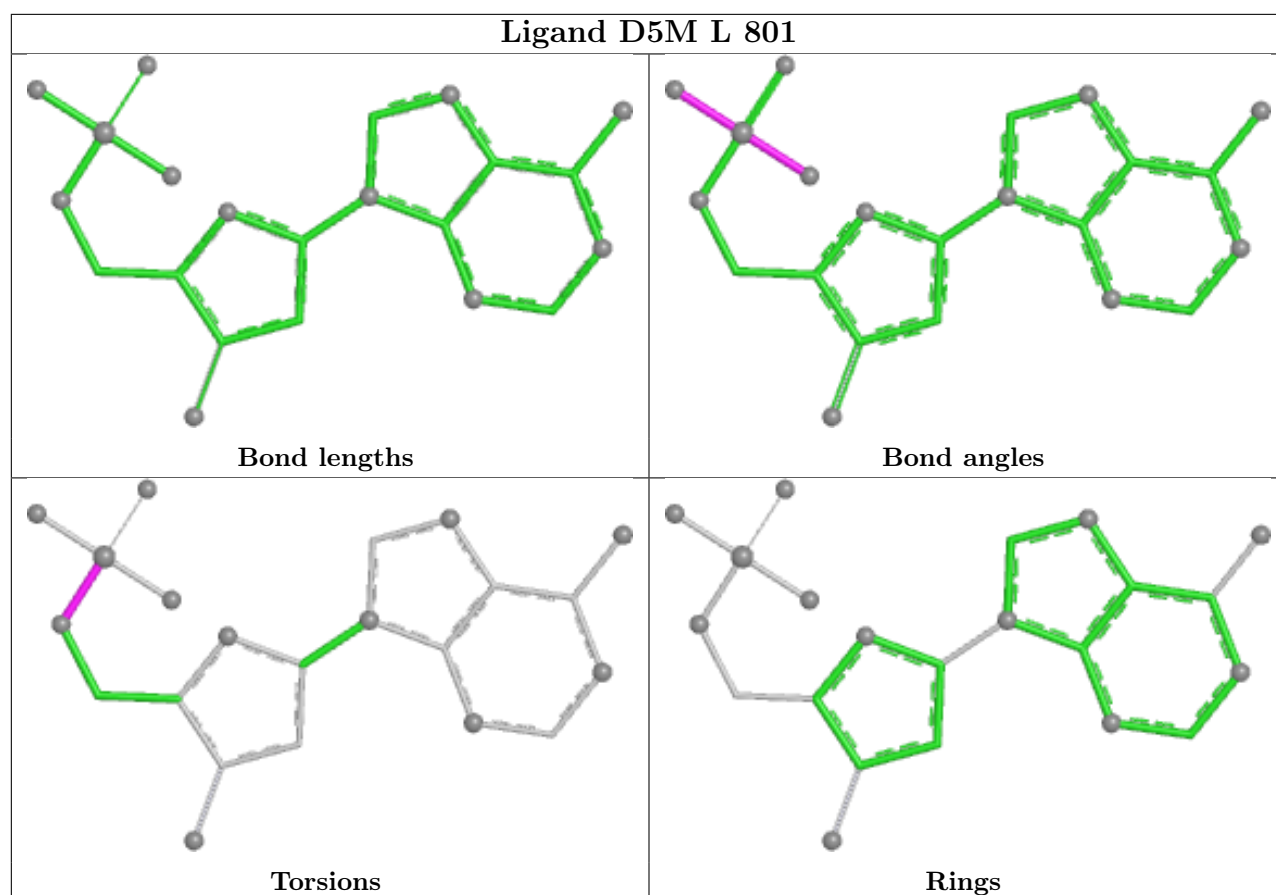
Ligand D5M J 801

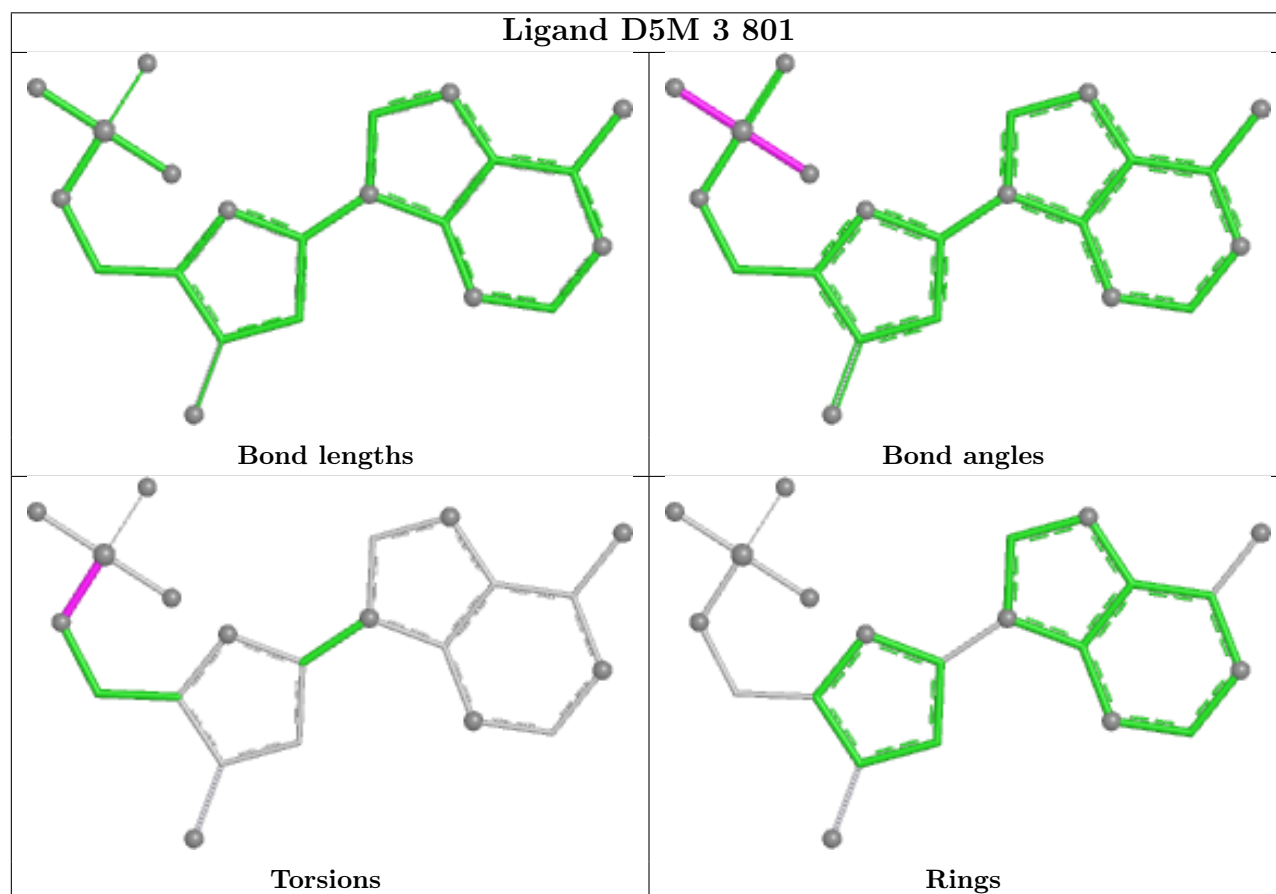
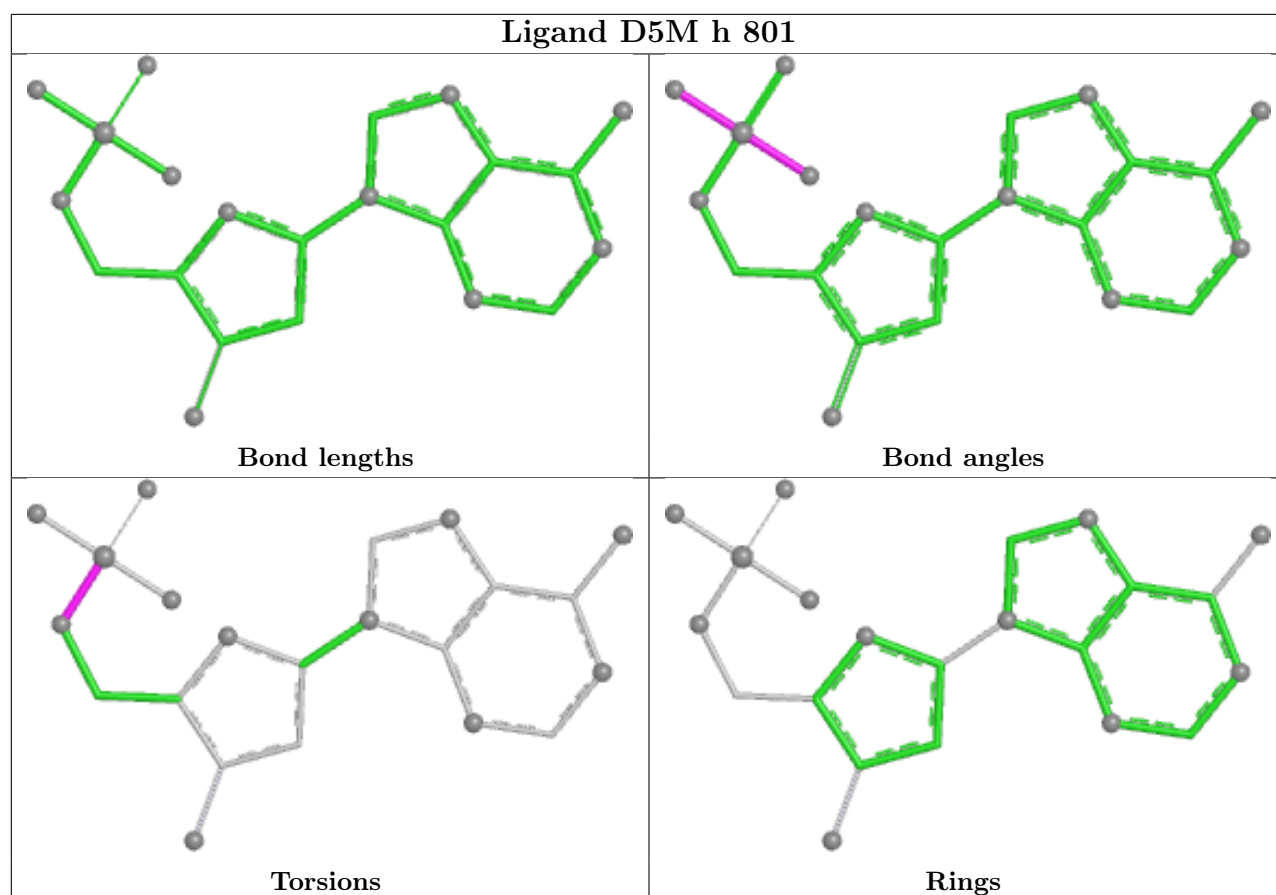




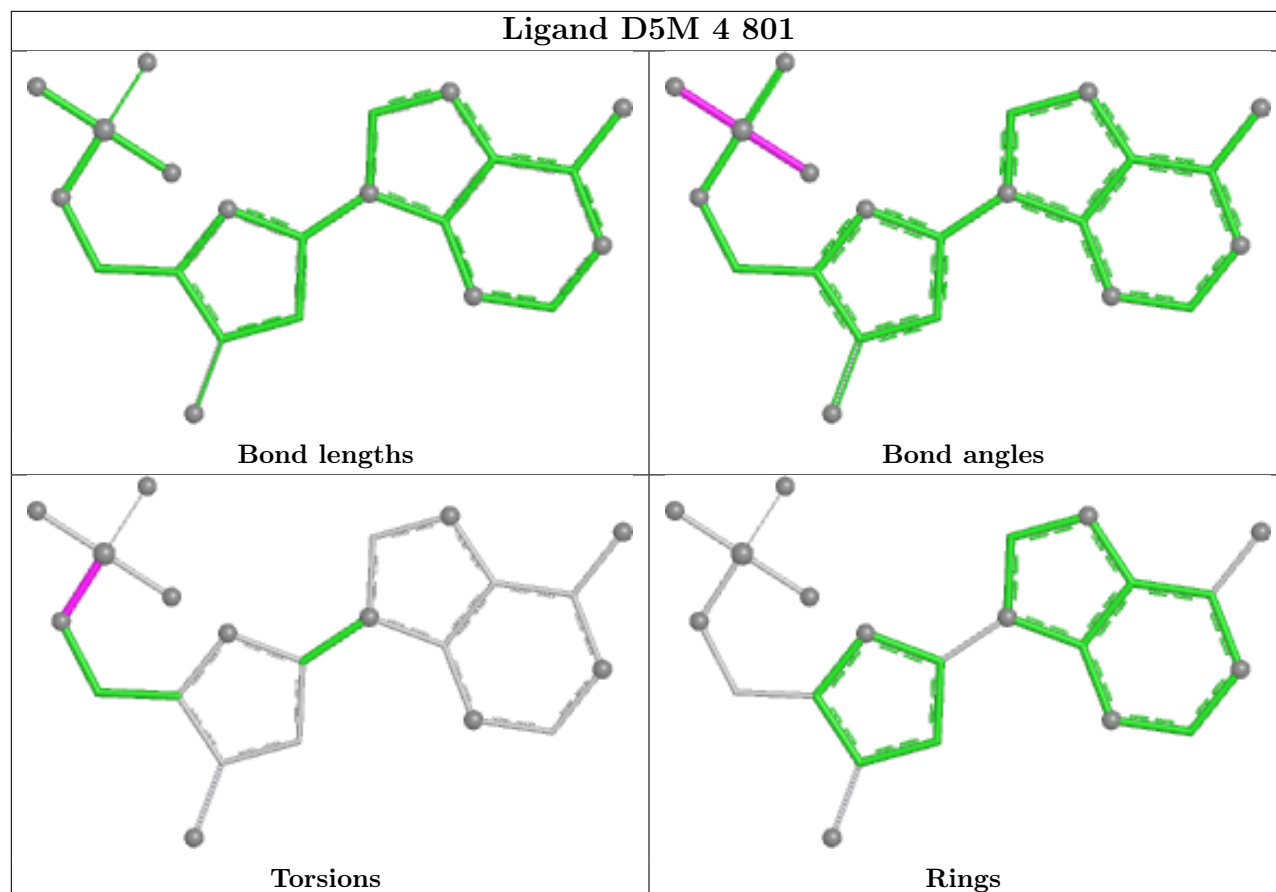




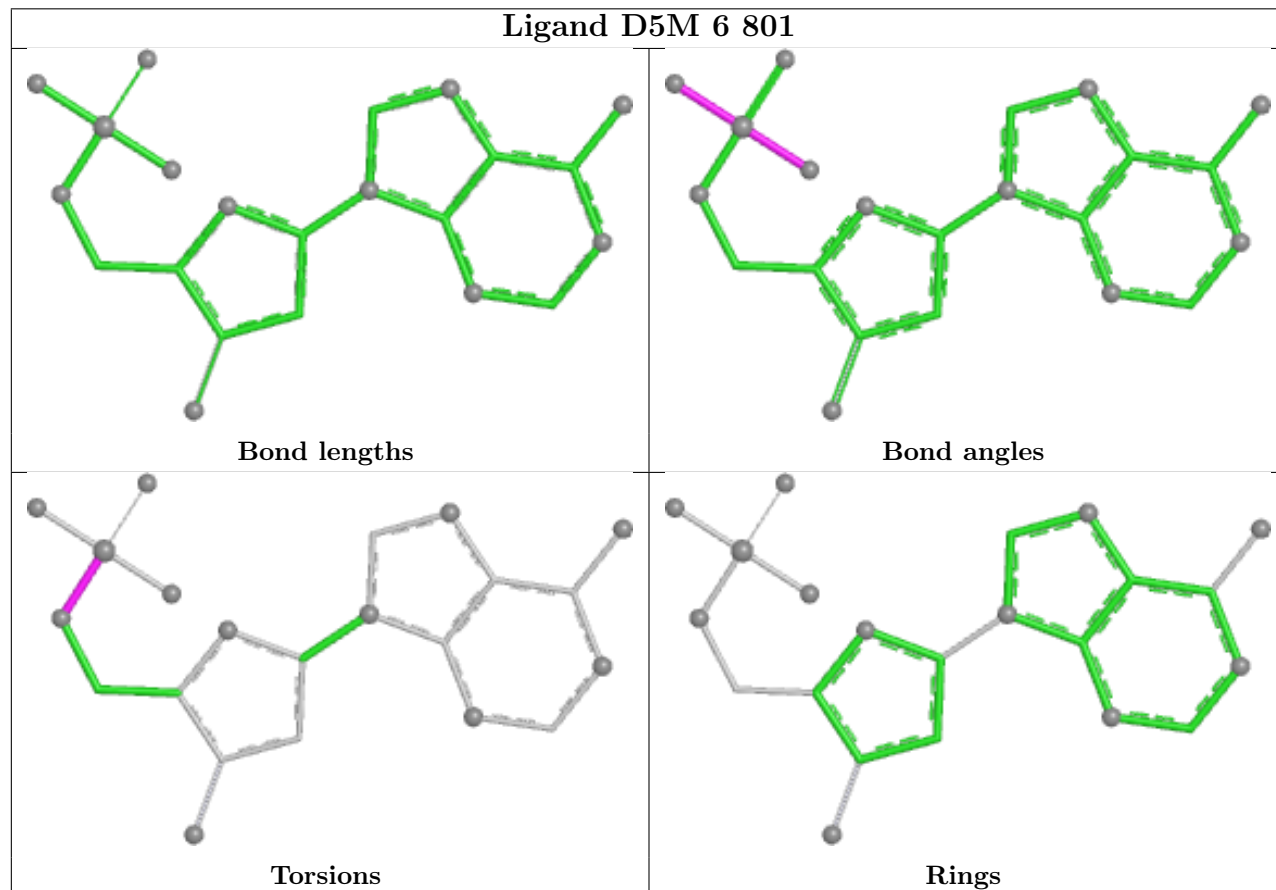


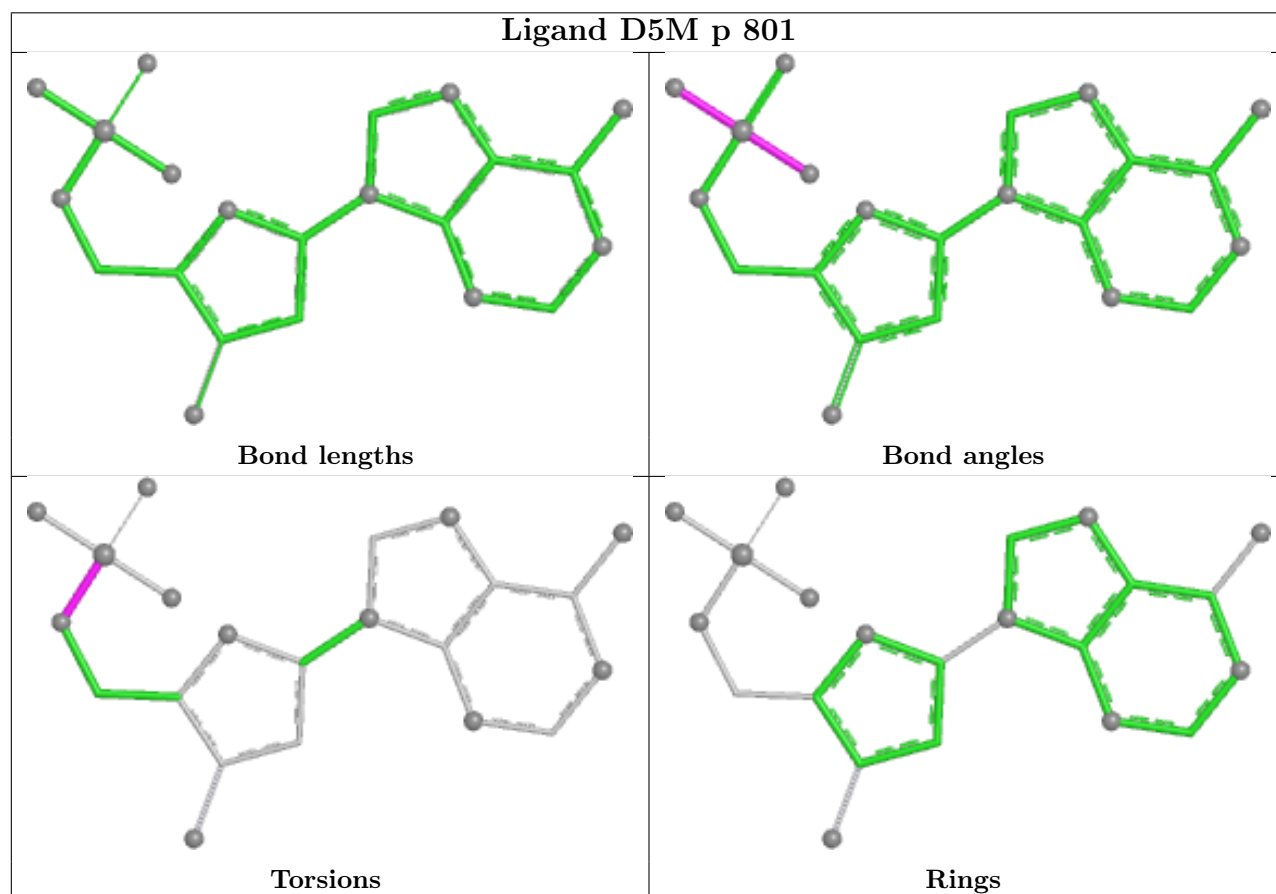
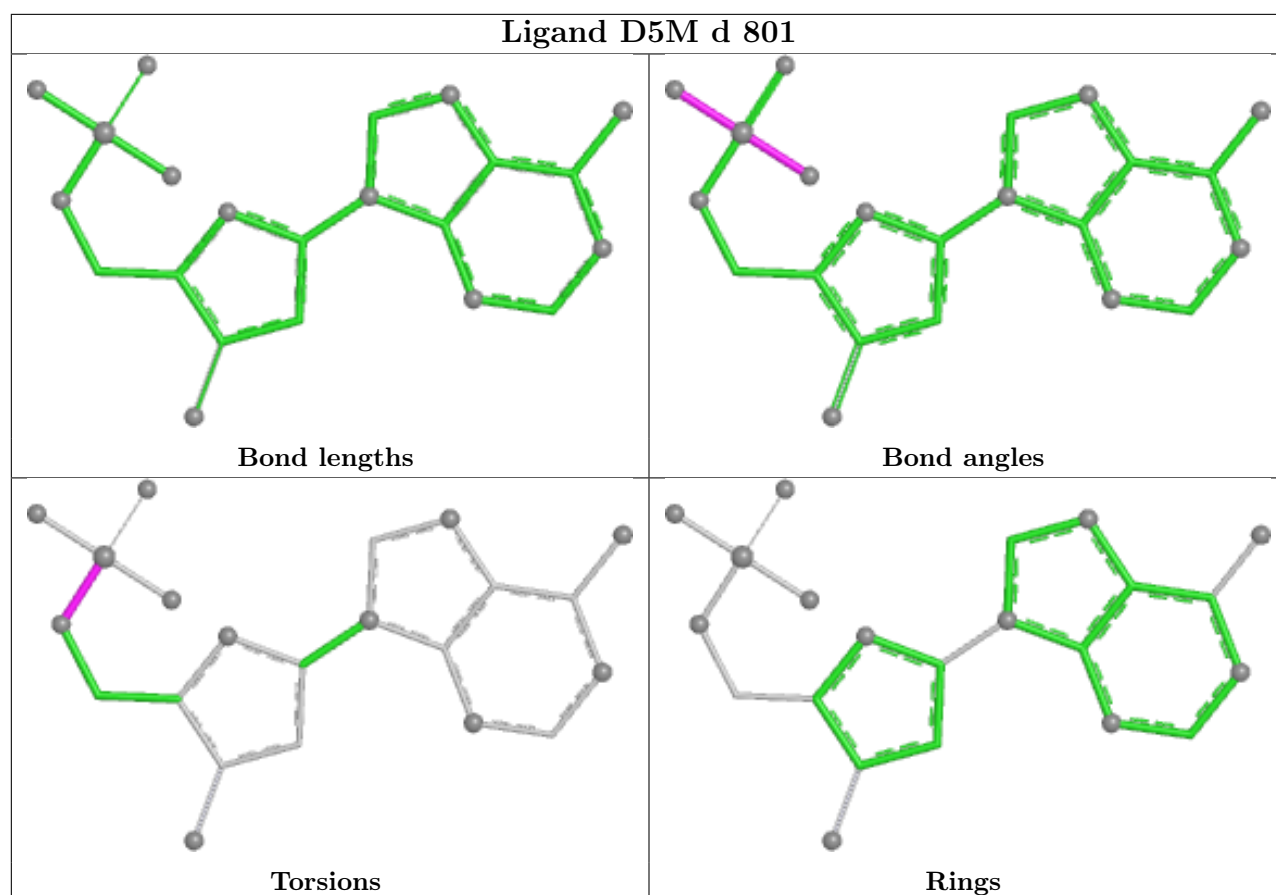


Ligand D5M 4 801

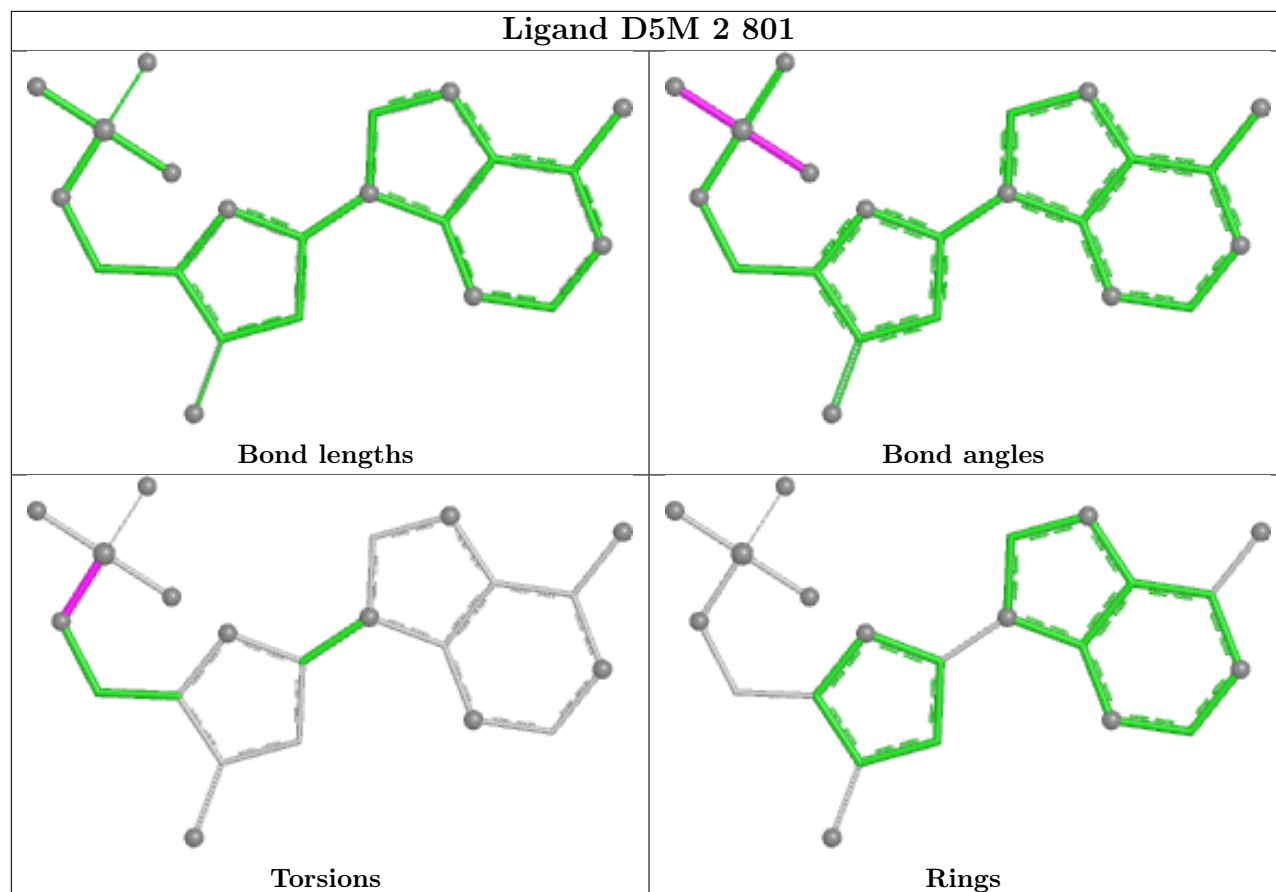


Ligand D5M 6 801

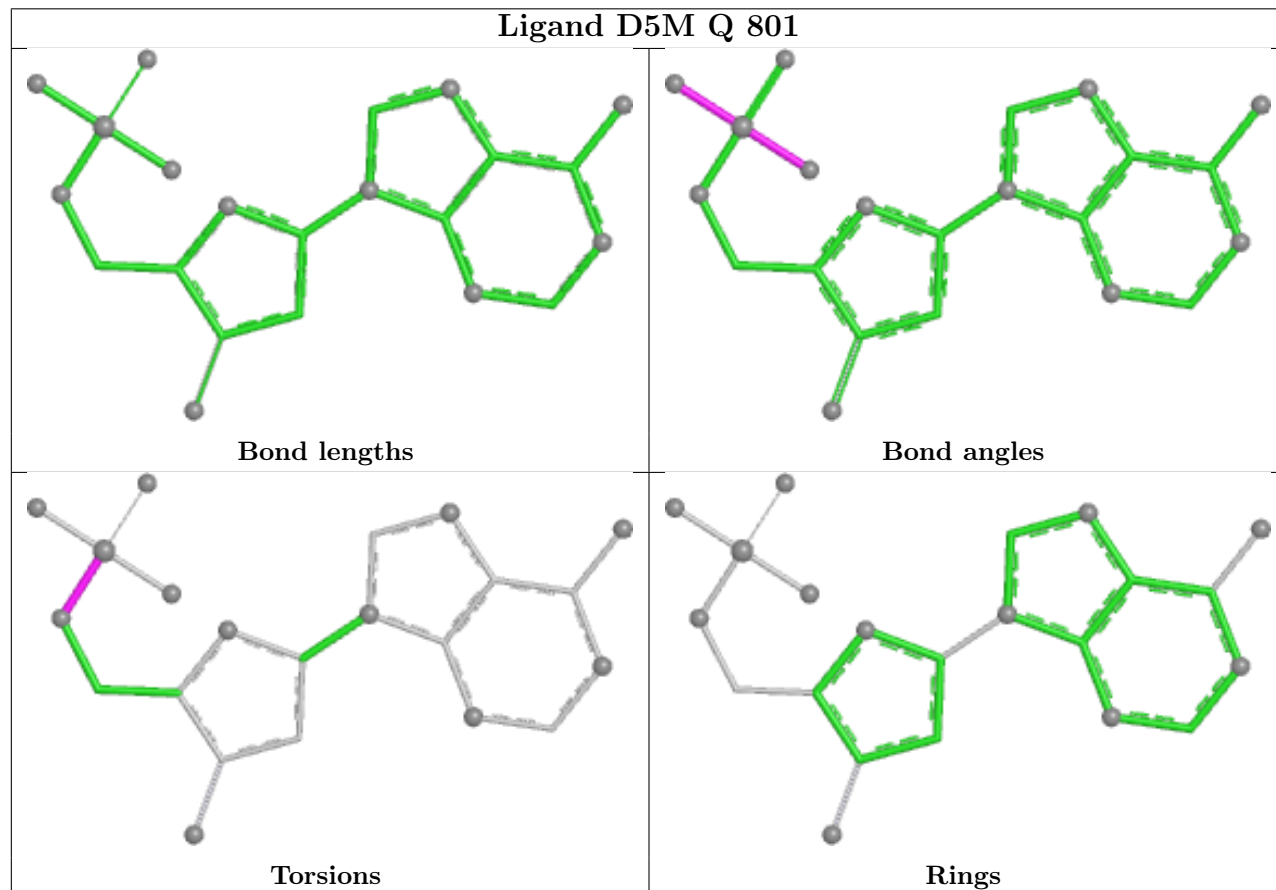




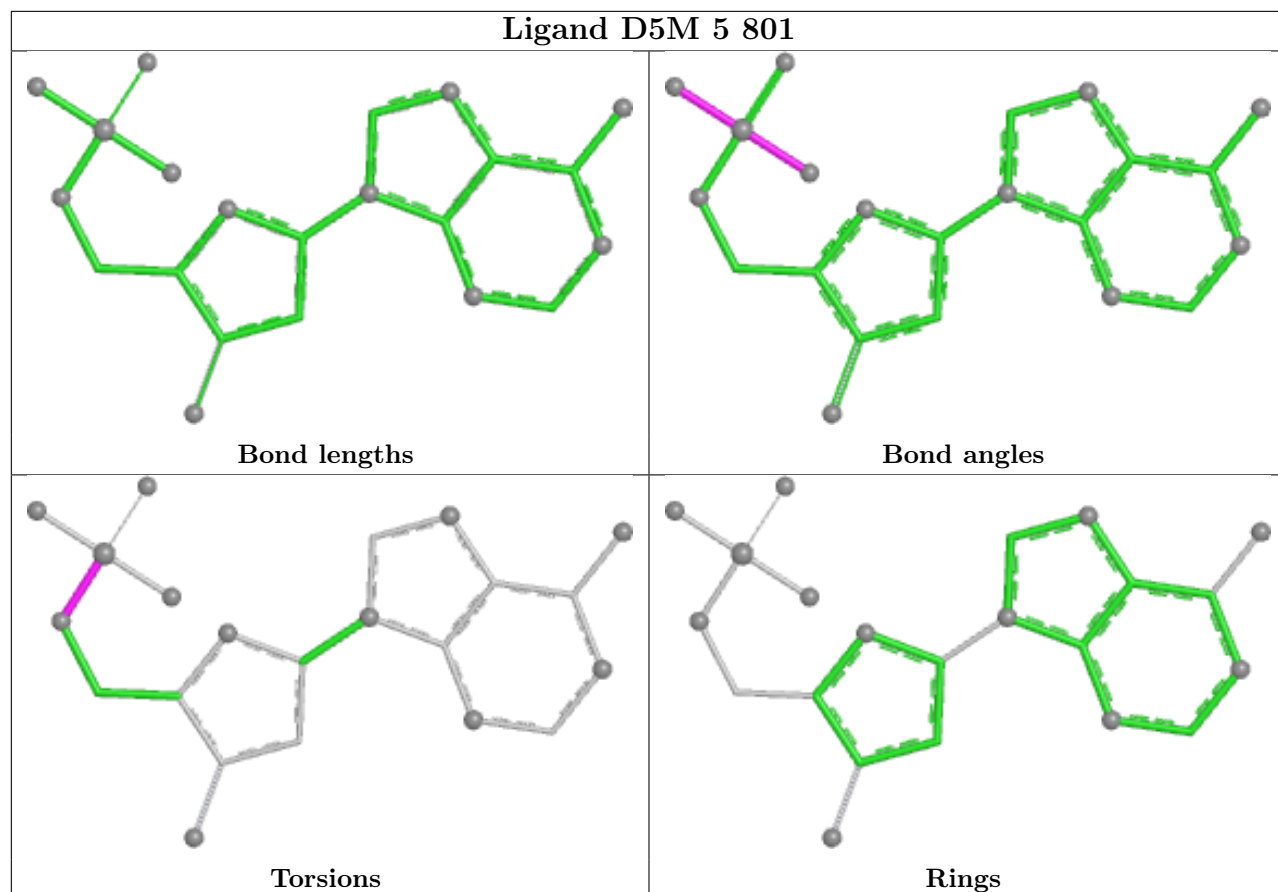
Ligand D5M 2 801



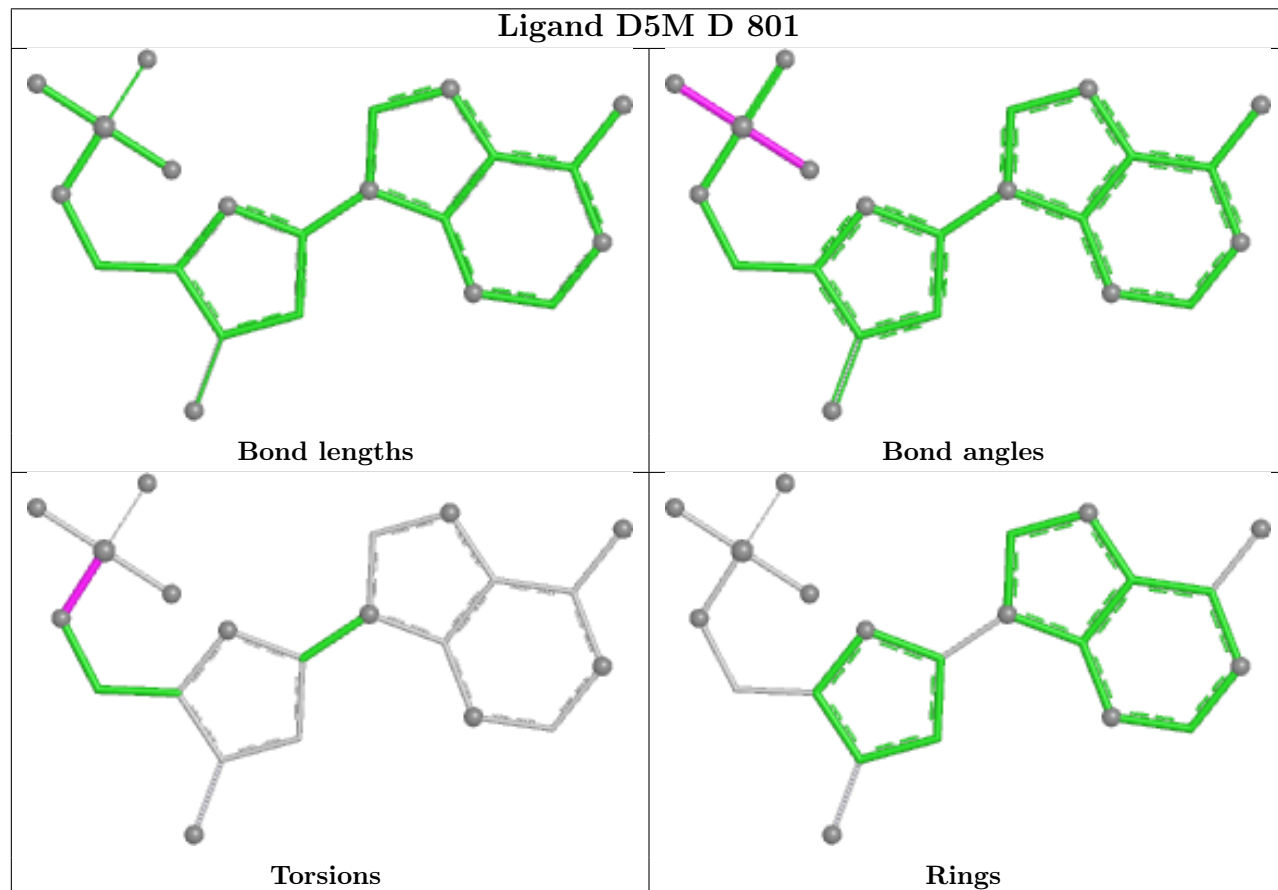
Ligand D5M Q 801

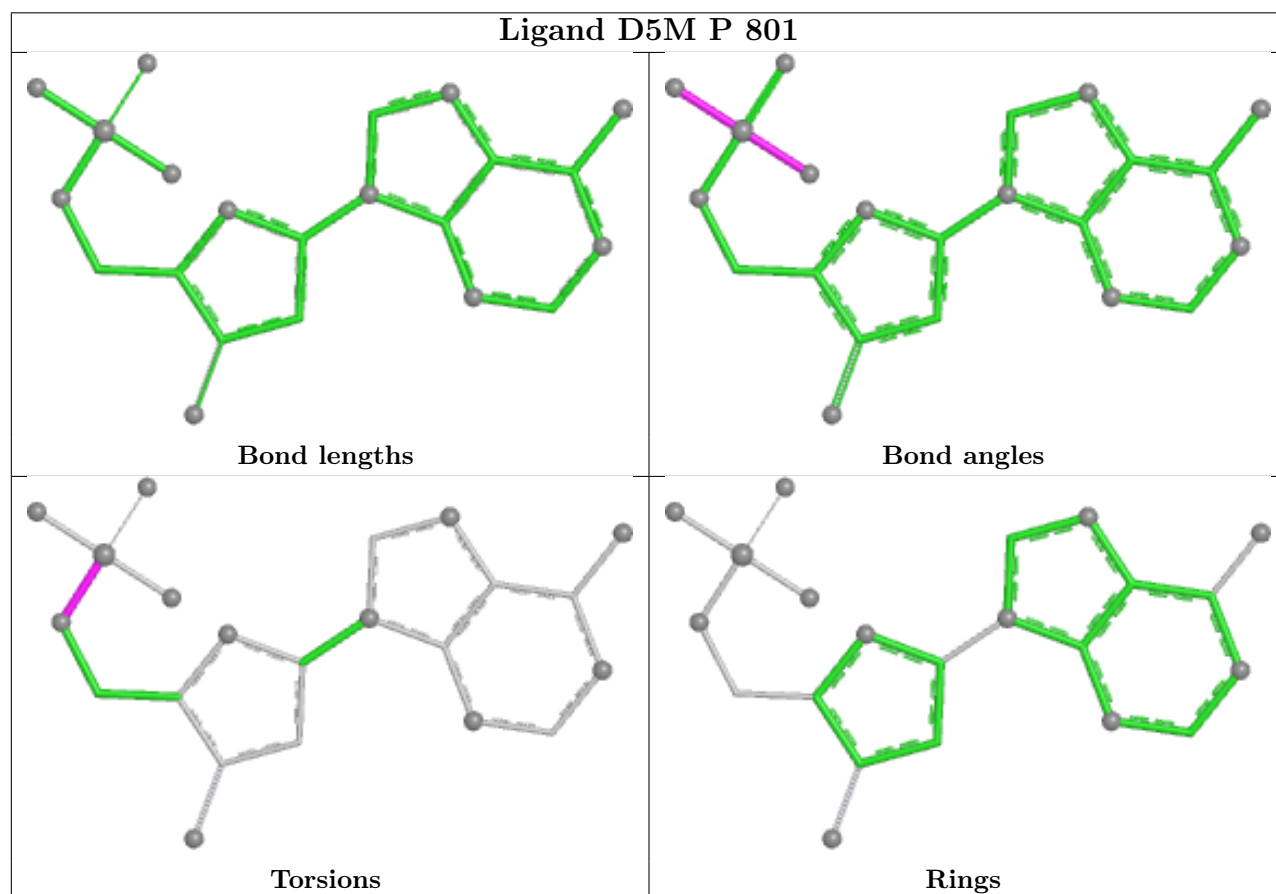
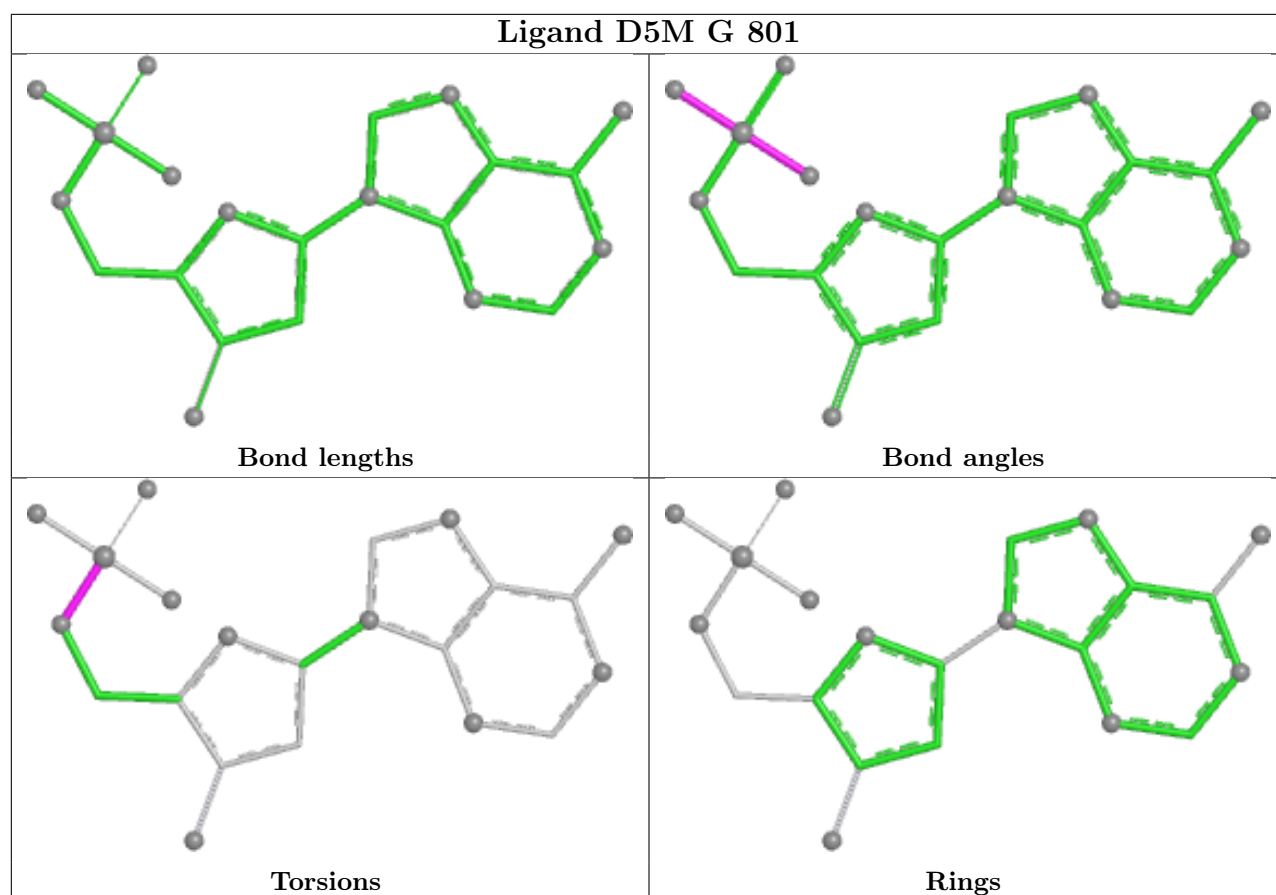


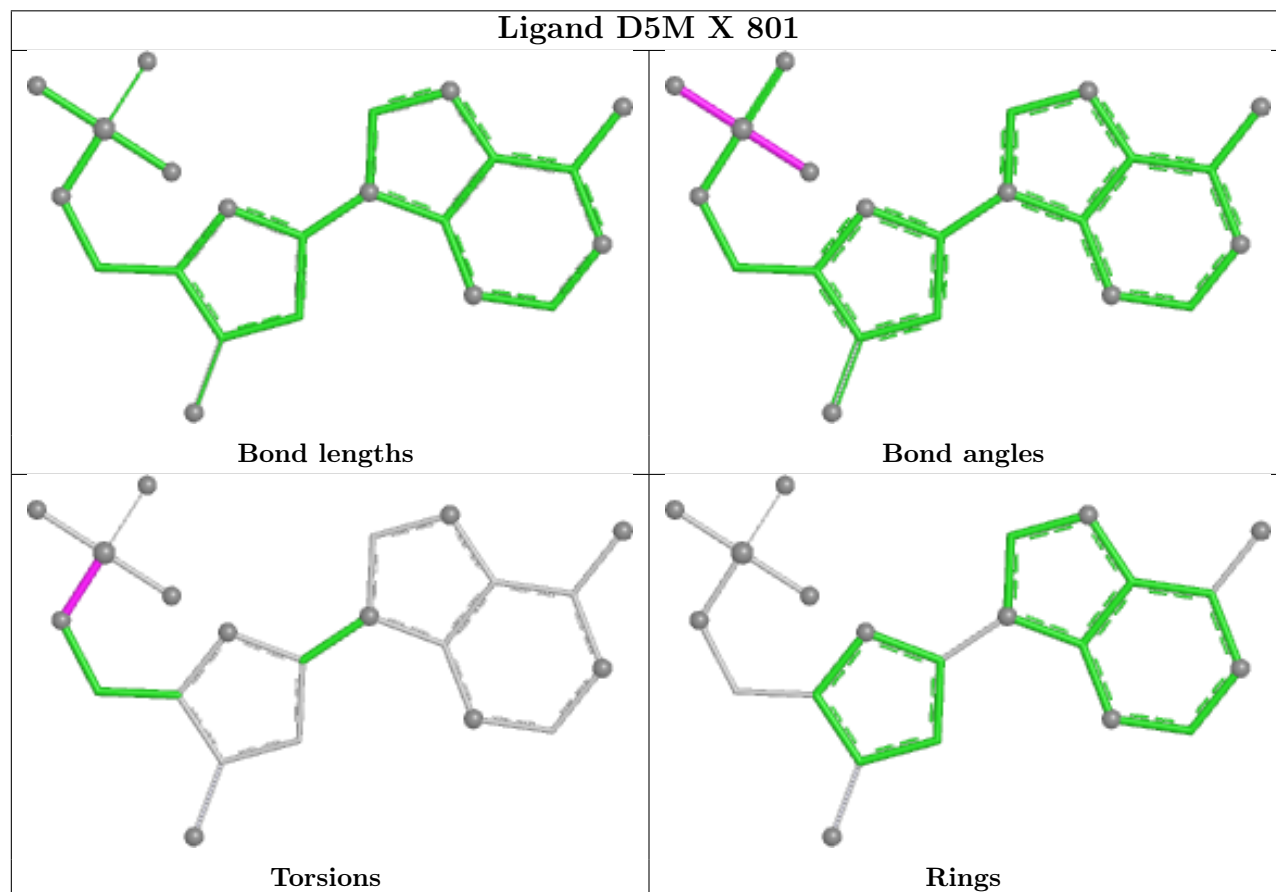
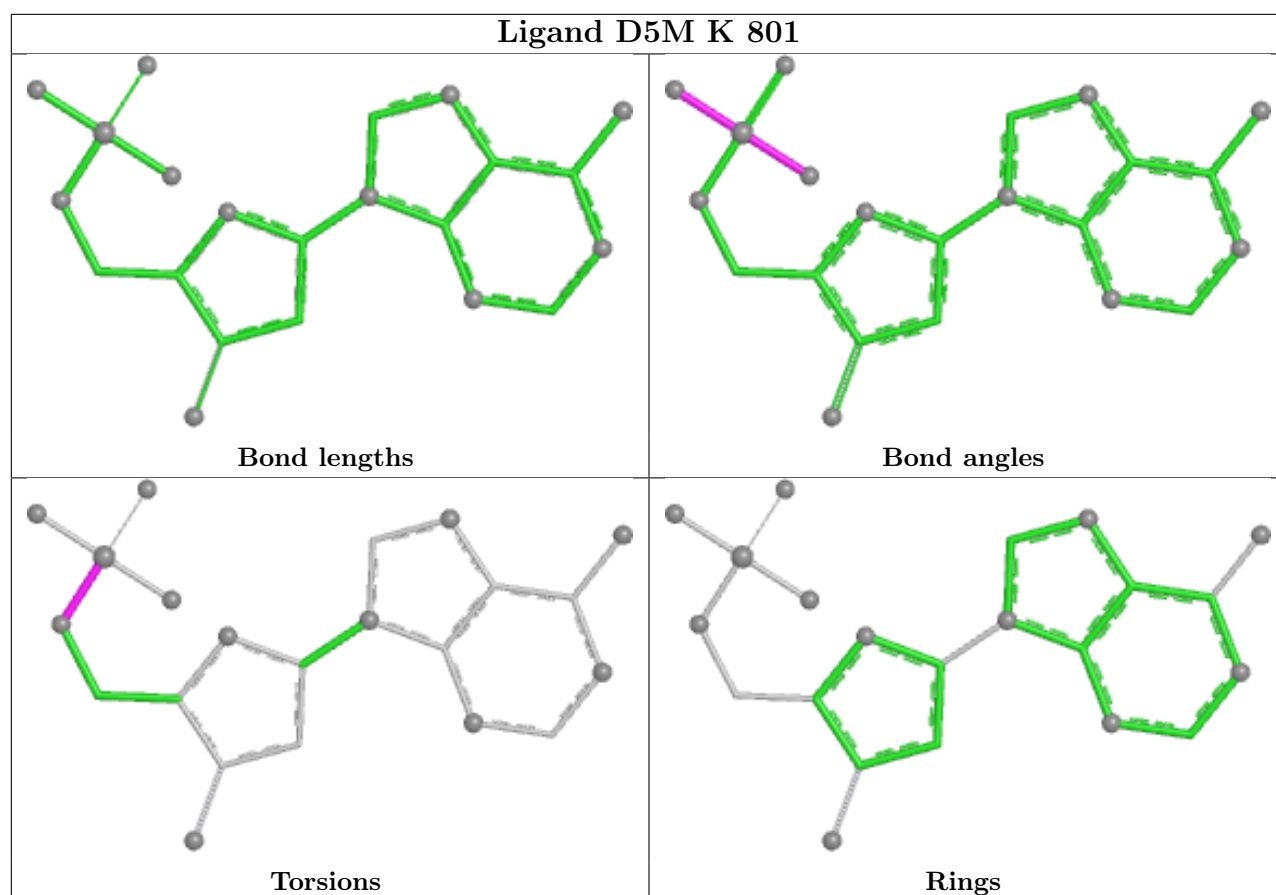
Ligand D5M 5 801

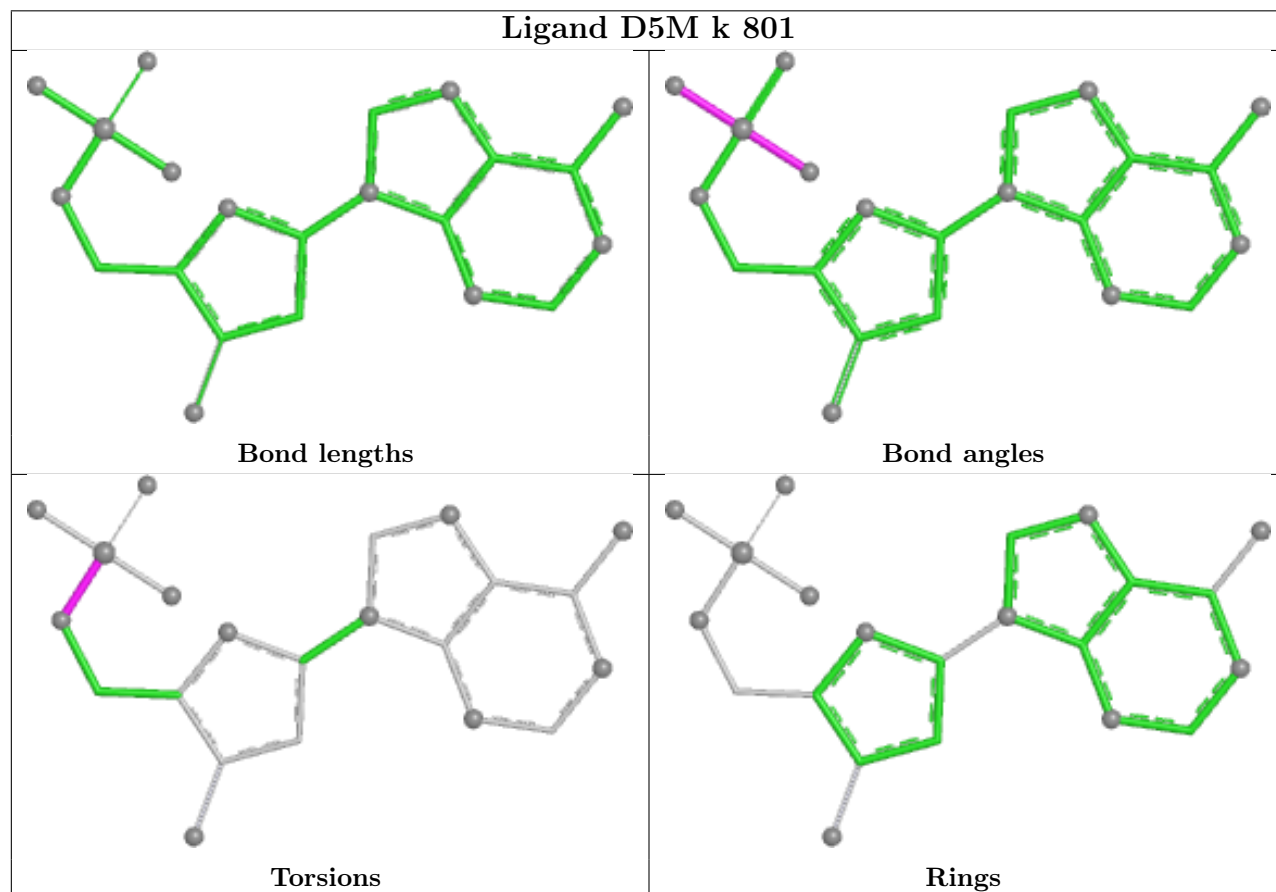
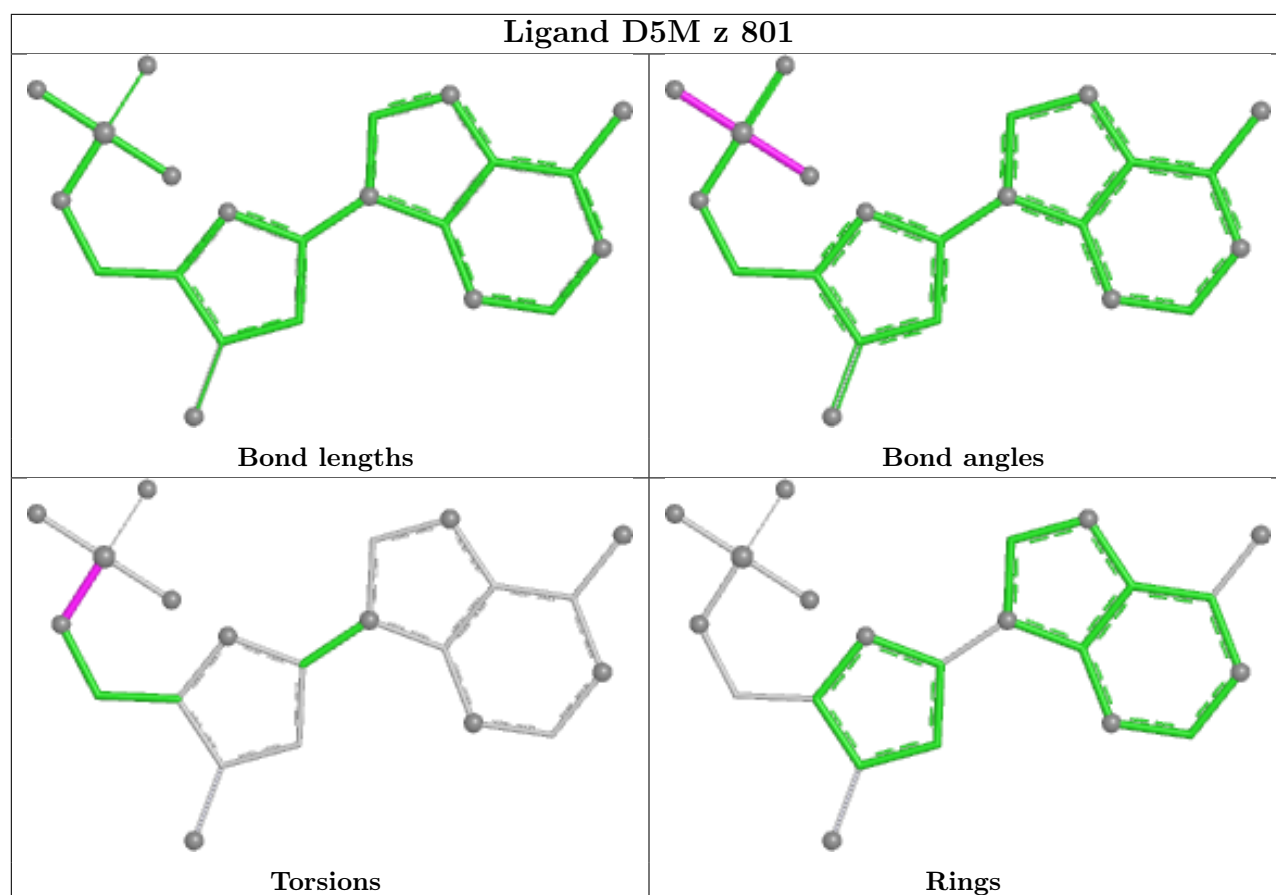


Ligand D5M D 801









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

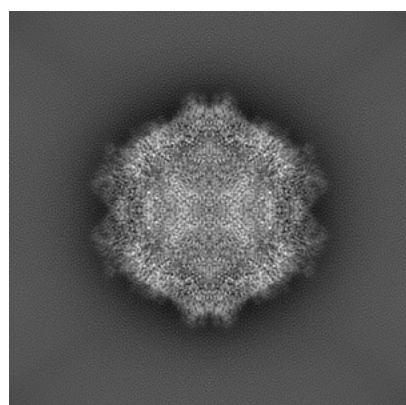
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23202. These allow visual inspection of the internal detail of the map and identification of artifacts.

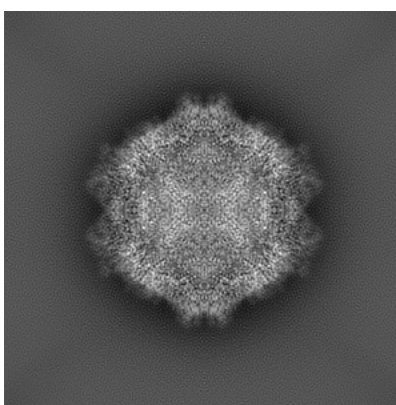
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

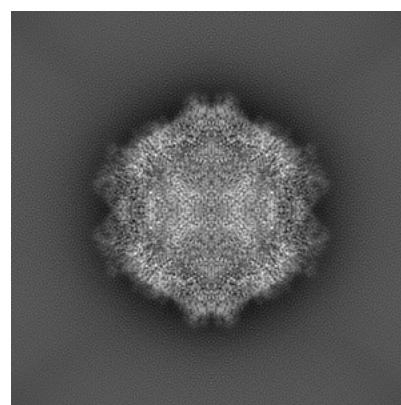
6.1.1 Primary map



X



Y

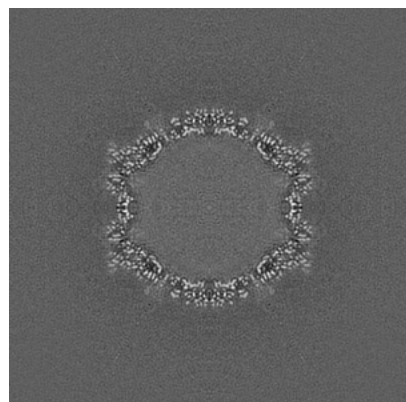


Z

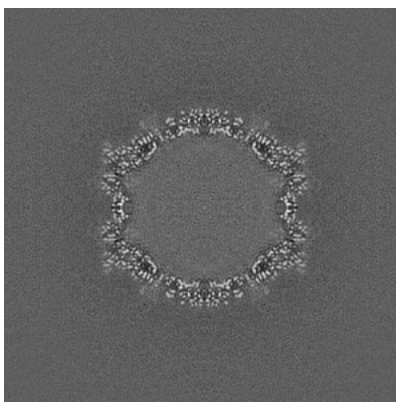
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

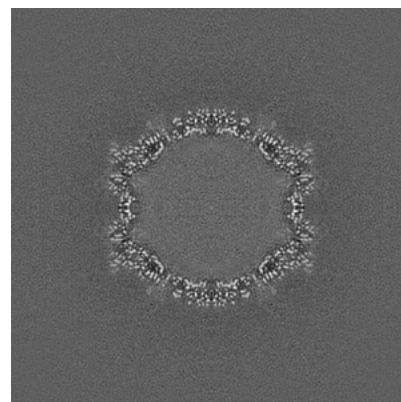
6.2.1 Primary map



X Index: 275



Y Index: 275

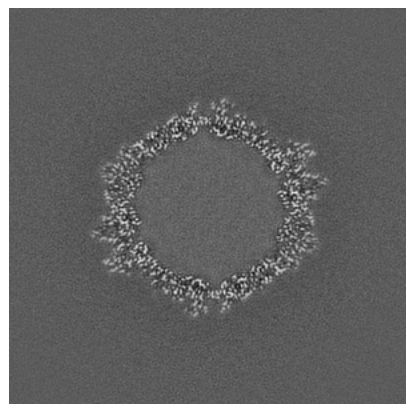


Z Index: 275

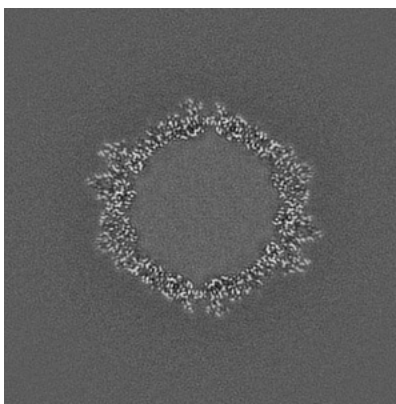
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

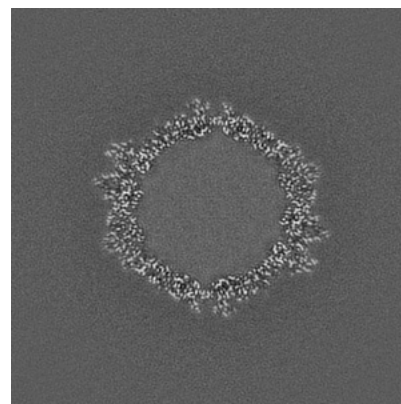
6.3.1 Primary map



X Index: 292



Y Index: 258

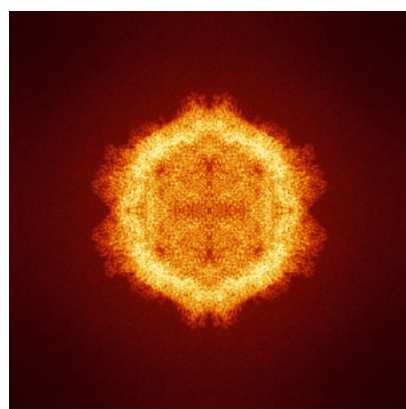


Z Index: 258

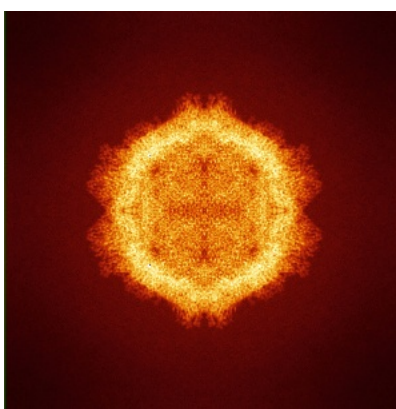
The images above show the largest variance slices of the map in three orthogonal directions.

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

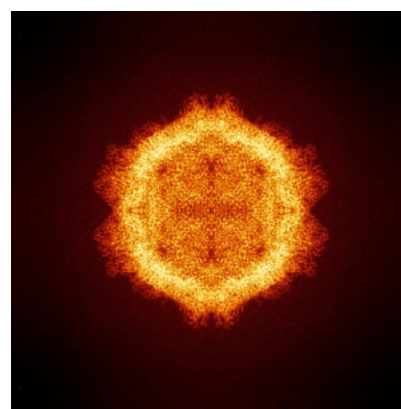
6.4.1 Primary map



X



Y

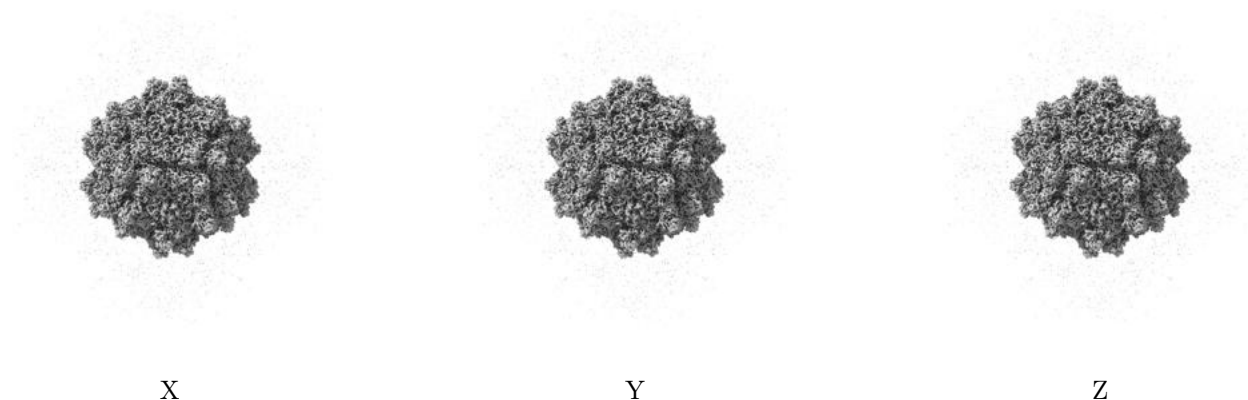


Z

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



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

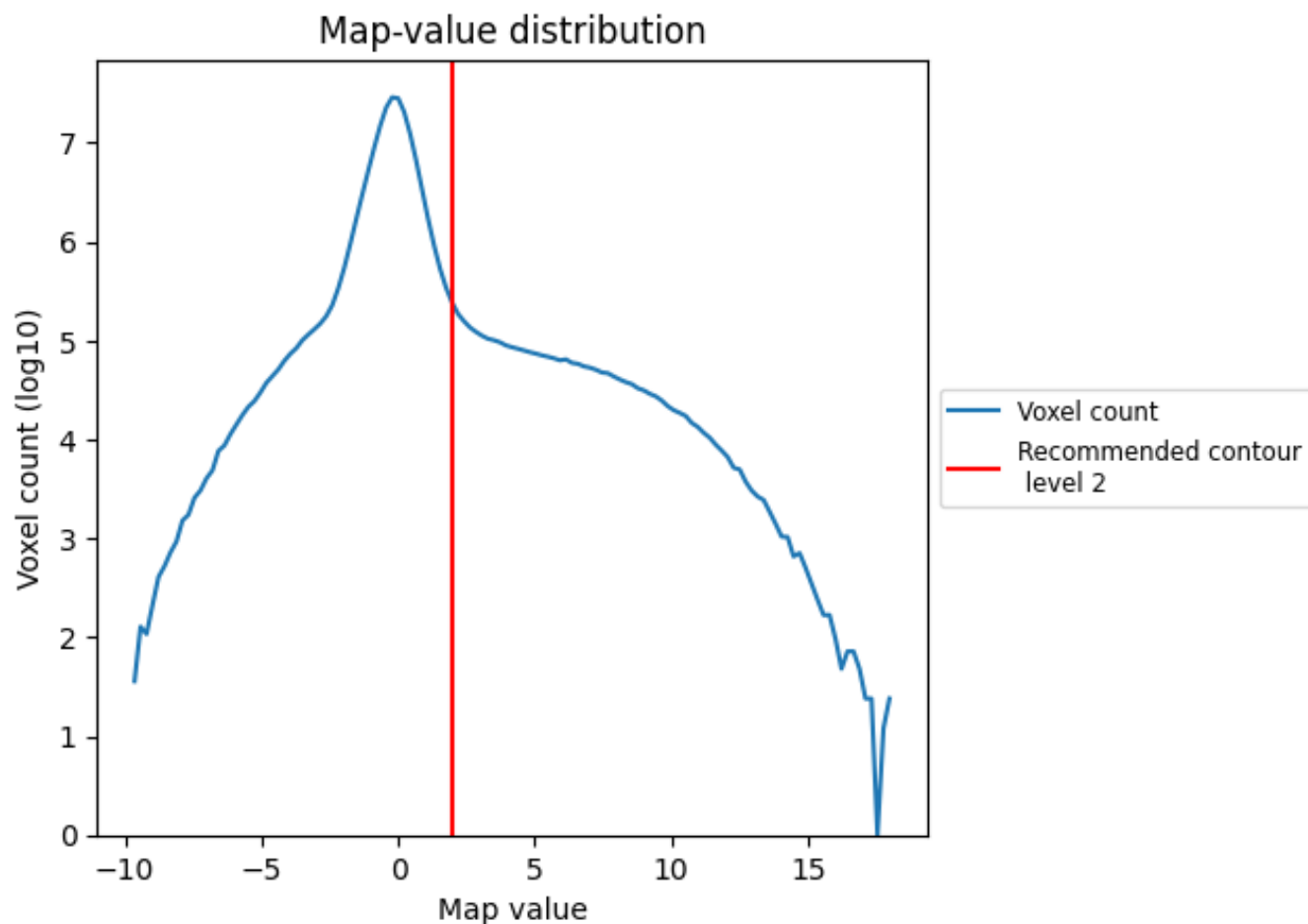
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

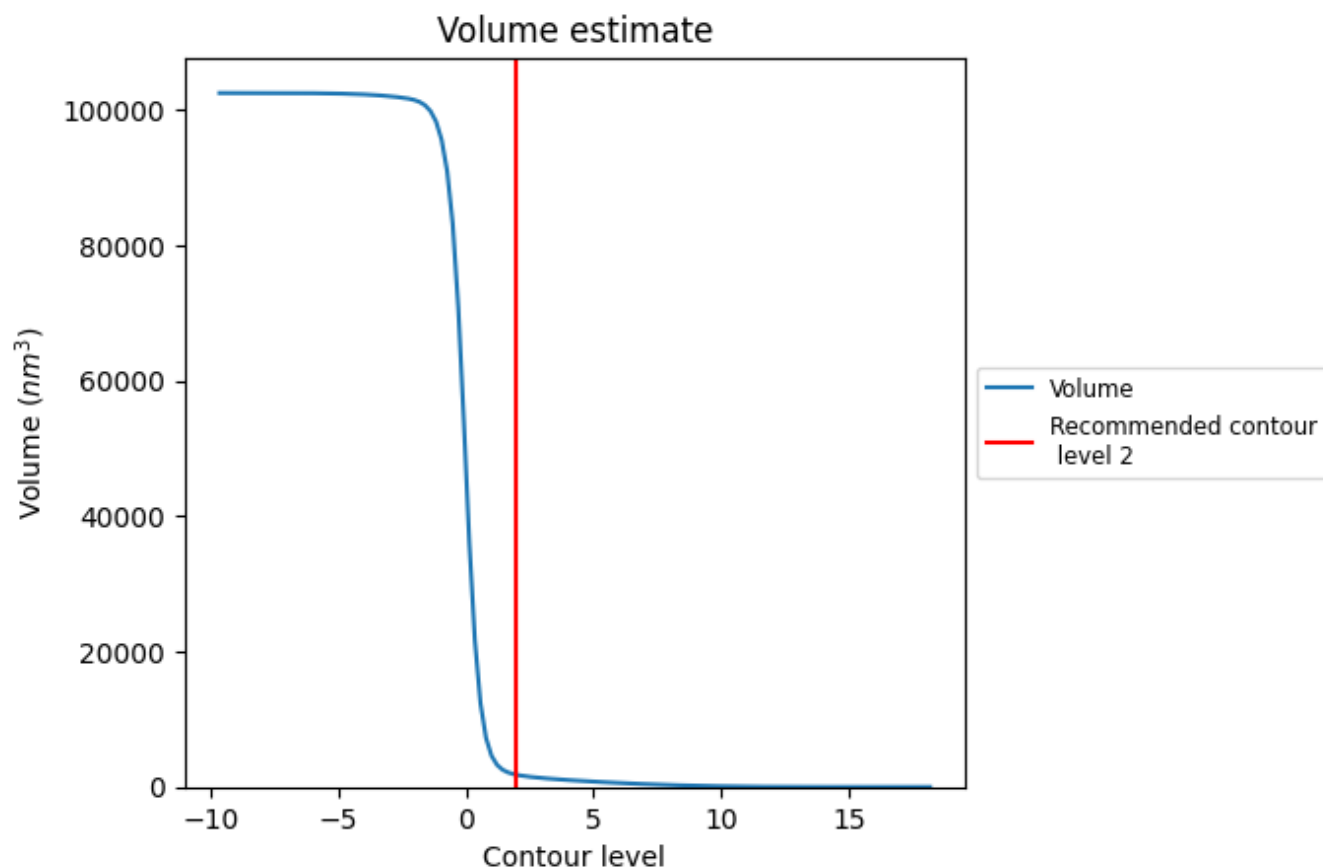
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

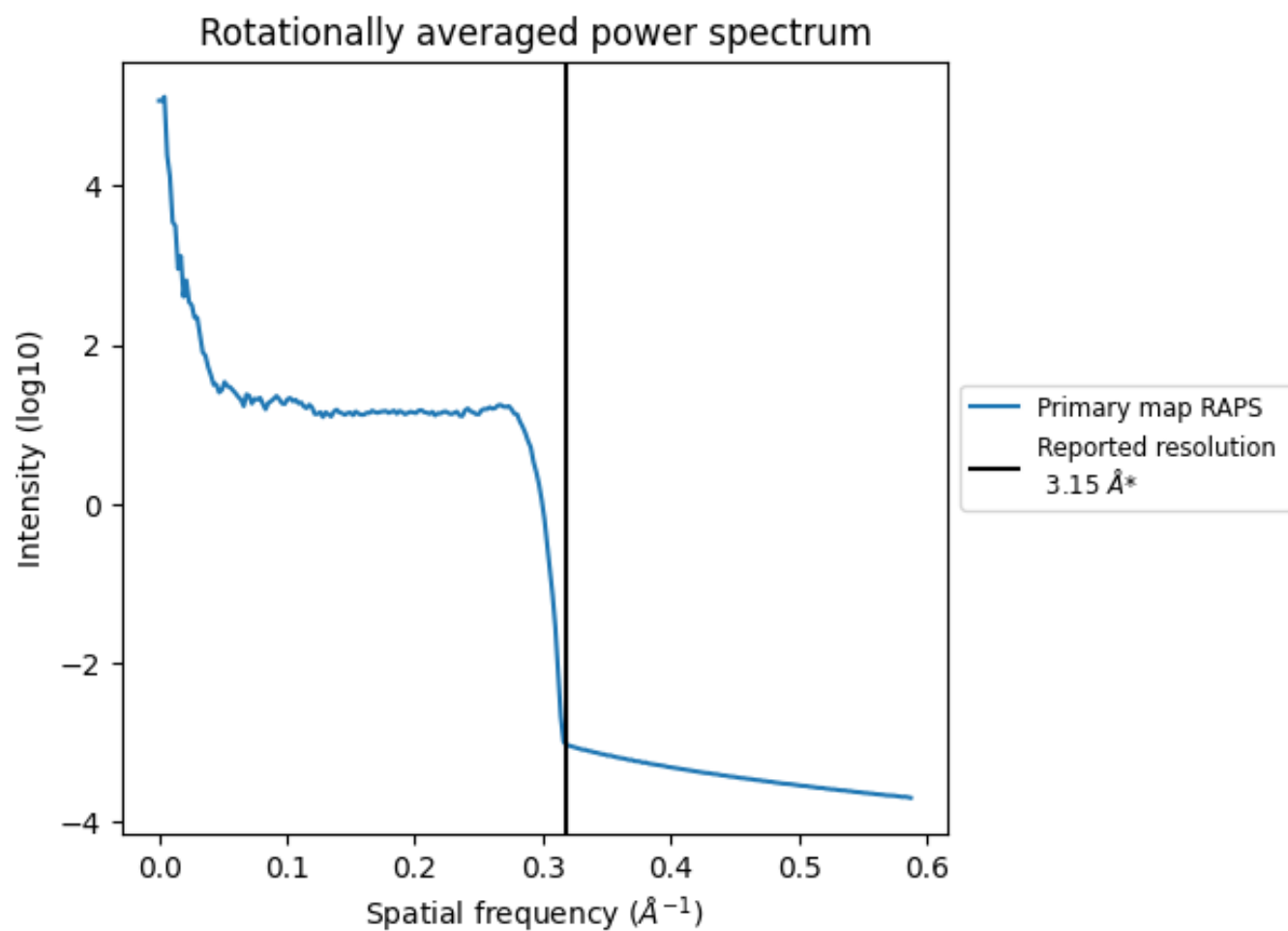
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1797 nm^3 ; this corresponds to an approximate mass of 1623 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.317 Å⁻¹

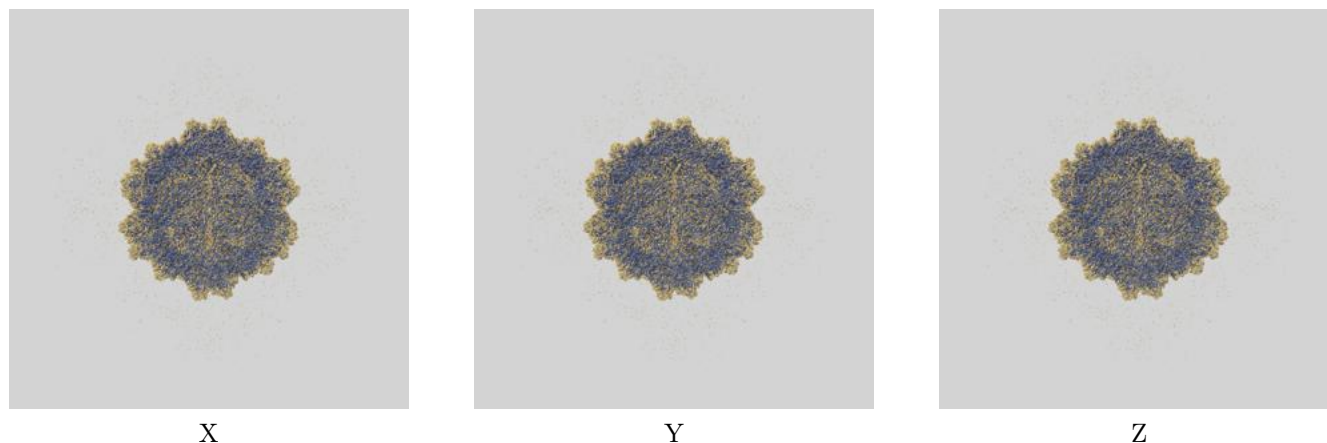
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

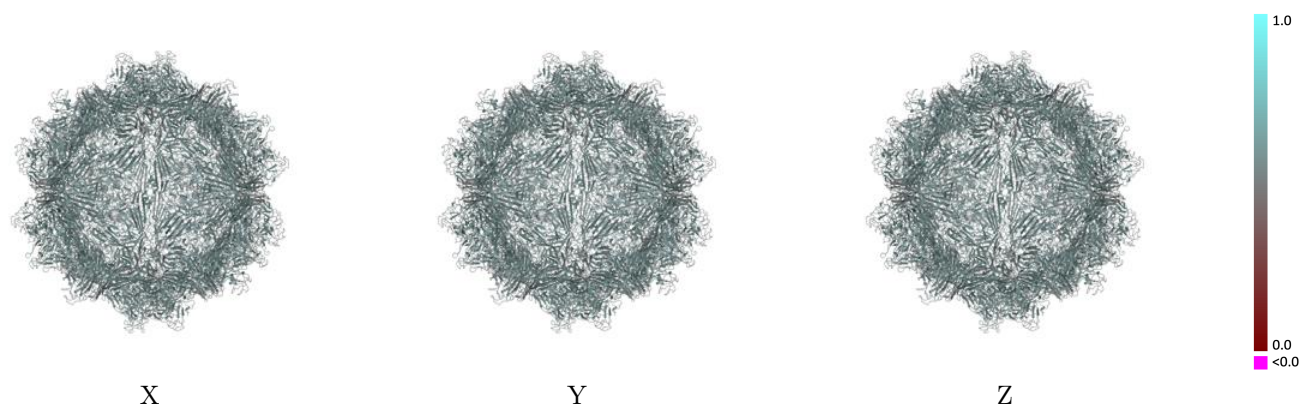
This section contains information regarding the fit between EMDB map EMD-23202 and PDB model 7L6E. Per-residue inclusion information can be found in [section 3](#) on [page 13](#).

9.1 Map-model overlay [i](#)



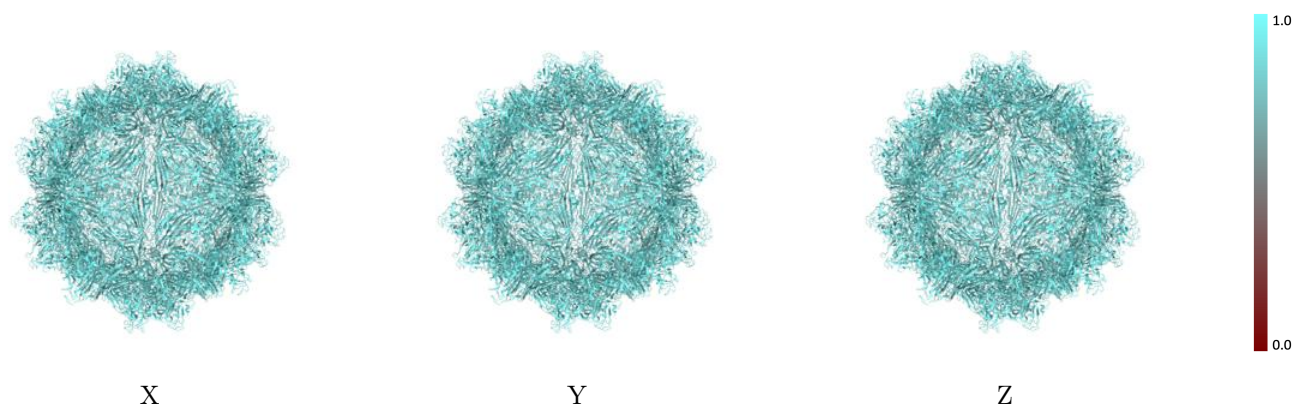
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



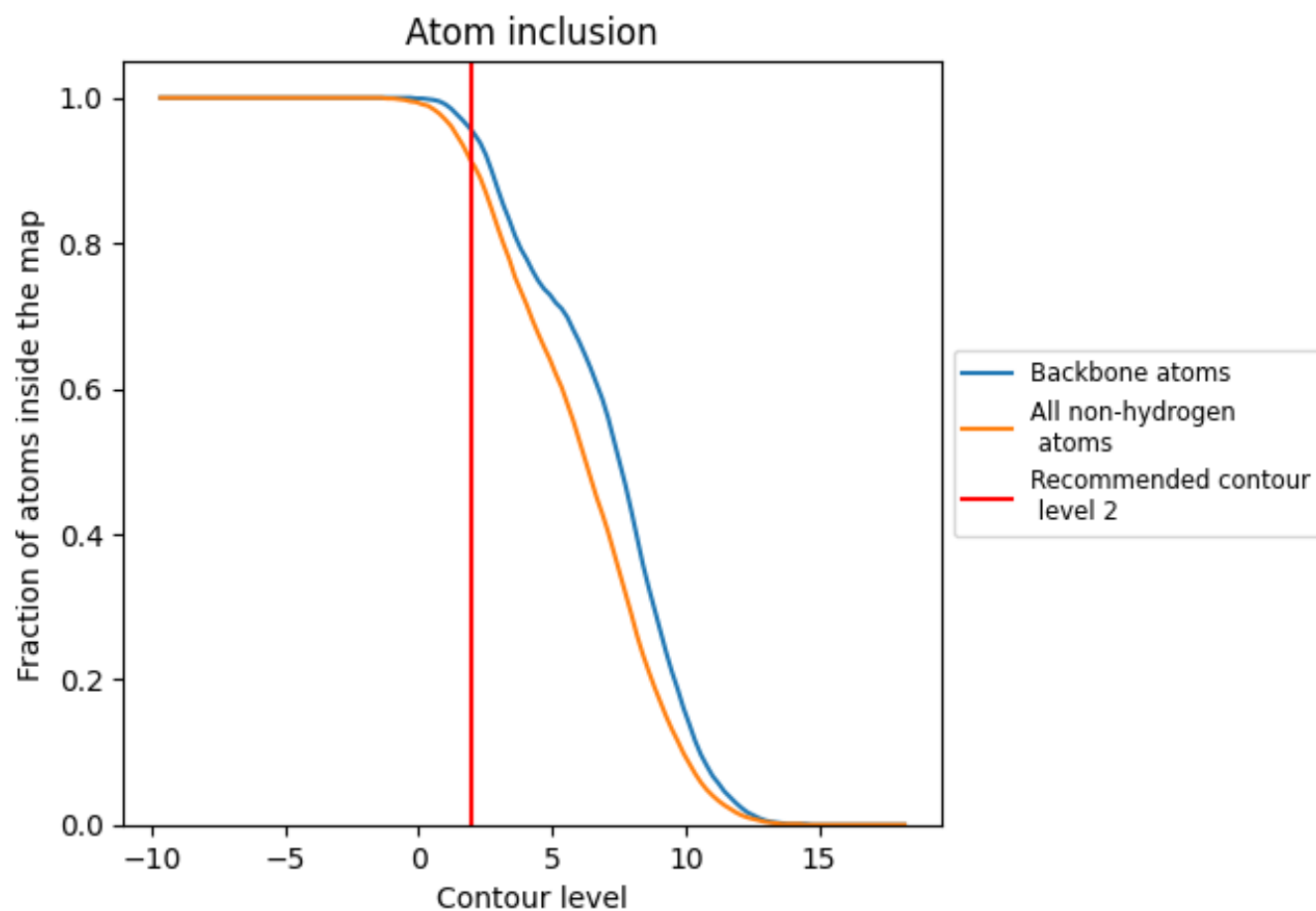
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 91% 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	 0.9110	 0.5610
1	 0.9110	 0.5620
2	 0.9120	 0.5610
3	 0.9130	 0.5610
4	 0.9110	 0.5610
5	 0.9120	 0.5620
6	 0.9110	 0.5600
7	 0.9120	 0.5610
8	 0.9100	 0.5610
A	 0.9130	 0.5600
B	 0.9110	 0.5600
C	 0.9110	 0.5620
D	 0.9110	 0.5610
E	 0.9100	 0.5600
F	 0.9130	 0.5610
G	 0.9100	 0.5590
H	 0.9120	 0.5610
I	 0.9110	 0.5600
J	 0.9120	 0.5610
K	 0.9110	 0.5610
L	 0.9110	 0.5620
M	 0.9110	 0.5610
N	 0.9120	 0.5610
O	 0.9100	 0.5610
P	 0.9120	 0.5600
Q	 0.9110	 0.5610
R	 0.9110	 0.5620
S	 0.9120	 0.5620
T	 0.9110	 0.5610
U	 0.9110	 0.5620
V	 0.9110	 0.5600
W	 0.9110	 0.5610
X	 0.9110	 0.5600
Y	 0.9120	 0.5610
Z	 0.9100	 0.5610



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
a	 0.9130	 0.5620
b	 0.9130	 0.5610
c	 0.9130	 0.5620
d	 0.9130	 0.5620
e	 0.9130	 0.5610
f	 0.9130	 0.5610
g	 0.9110	 0.5610
h	 0.9110	 0.5610
i	 0.9120	 0.5620
j	 0.9130	 0.5610
k	 0.9110	 0.5620
l	 0.9100	 0.5610
m	 0.9110	 0.5610
n	 0.9130	 0.5620
o	 0.9110	 0.5600
p	 0.9110	 0.5610
q	 0.9110	 0.5610
r	 0.9120	 0.5610
s	 0.9110	 0.5610
t	 0.9100	 0.5600
u	 0.9110	 0.5600
v	 0.9130	 0.5600
w	 0.9100	 0.5580
x	 0.9110	 0.5600
y	 0.9130	 0.5600
z	 0.9110	 0.5610