



Full wwPDB EM Validation Report ⓘ

Apr 1, 2025 – 05:55 pm BST

PDB ID : 5MVY / pdb_00005mvy
EMDB ID : EMD-3578
Title : Thin Filament at low calcium concentration
Authors : Paul, D.M.; Squire, J.M.; Morris, E.P.
Deposited on : 2017-01-17
Resolution : 28.40 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.dev117
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.42

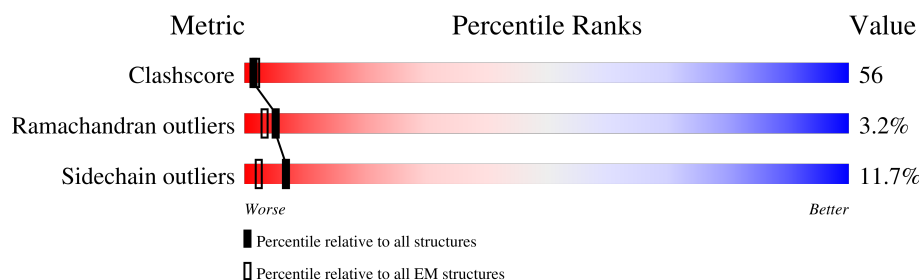
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 28.40 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	A	375	80% 56% 34% 10% .
1	B	375	70% 56% 34% 10% .
1	C	375	9% 55% 35% 9% .
1	D	375	56% 56% 35% 9% .
1	E	375	6% 55% 34% 10% .
1	F	375	48% 56% 34% 9% .
1	G	375	20% 56% 34% 9% .
1	H	375	36% 55% 35% 9% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	I	375	
1	J	375	
1	K	375	
1	L	375	
1	M	375	
1	N	375	
1	O	375	
1	P	375	
1	Q	375	
1	R	375	
1	S	375	
1	T	375	
1	U	375	
1	V	375	
1	W	375	

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 68103 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 Actin, alpha skeletal muscle.

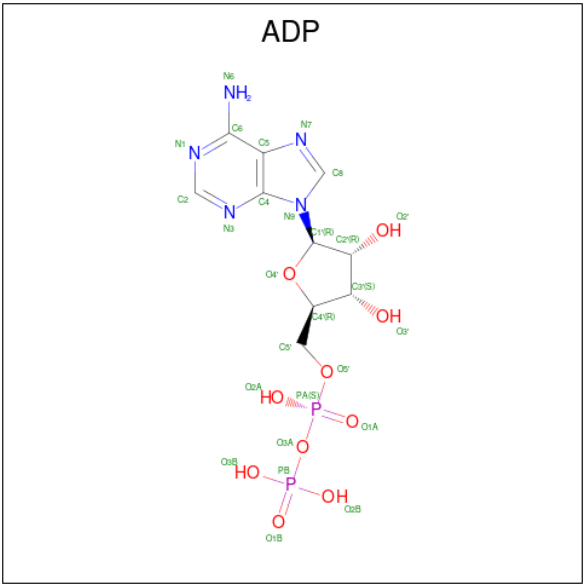
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	B	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	C	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	D	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	E	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	F	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	G	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	H	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	I	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	J	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	K	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	L	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	M	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	N	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	O	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	P	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	Q	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	S	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	T	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	U	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	V	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	W	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		

- Molecule 2 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



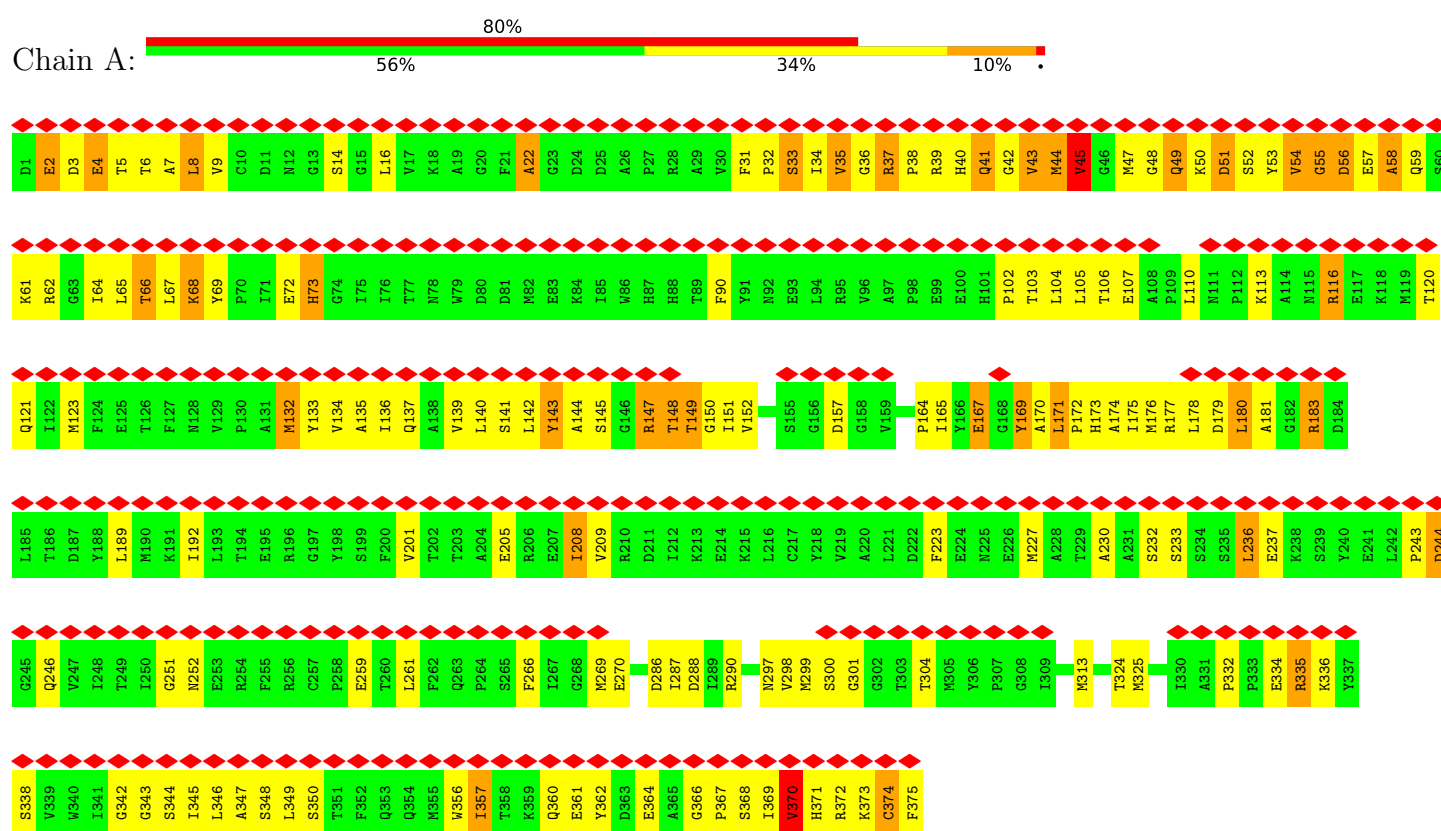
Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
2	F	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	G	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	H	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	I	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	J	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	K	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	L	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	M	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	N	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	O	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	P	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	Q	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	R	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	S	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	T	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	U	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	V	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	W	1	Total	C	N	O	P	0
			27	10	5	10	2	

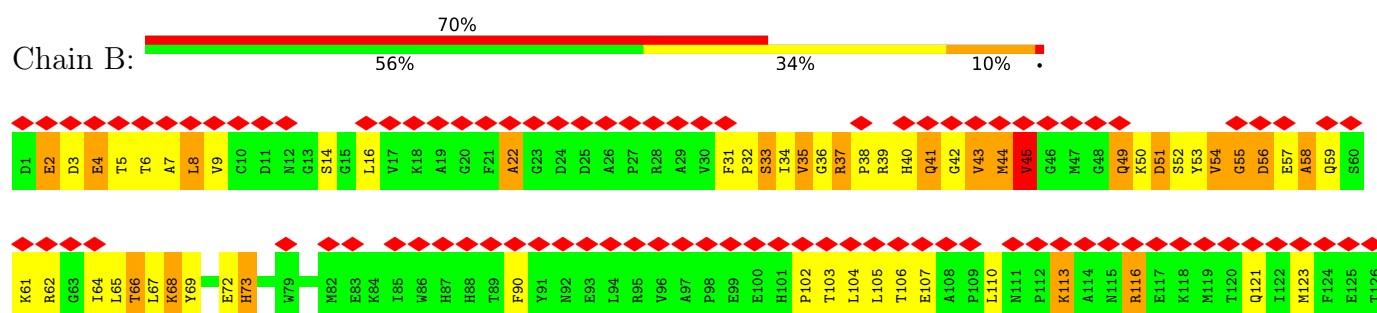
3 Residue-property plots

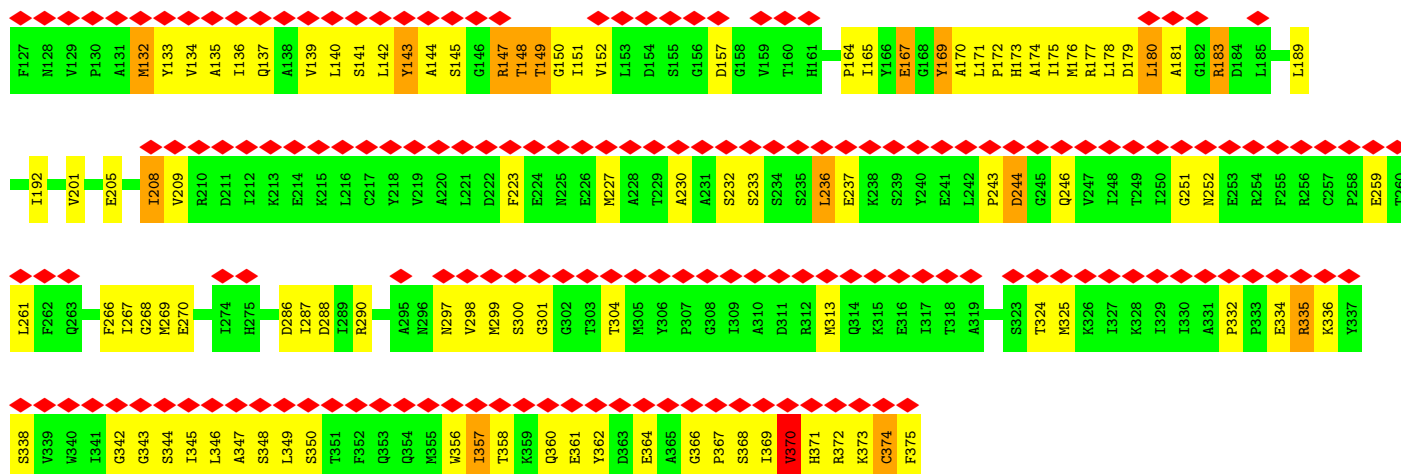
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Actin, alpha skeletal muscle

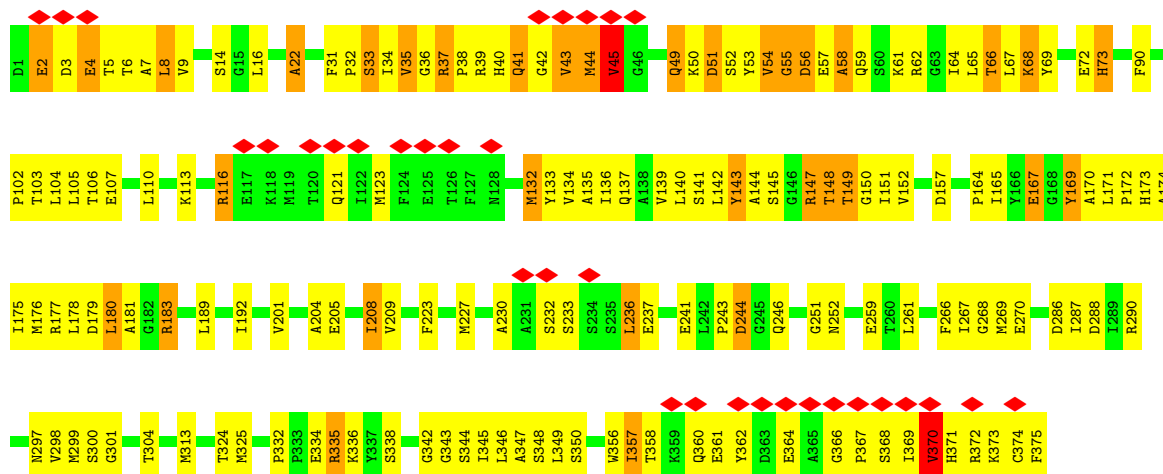


- Molecule 1: Actin, alpha skeletal muscle

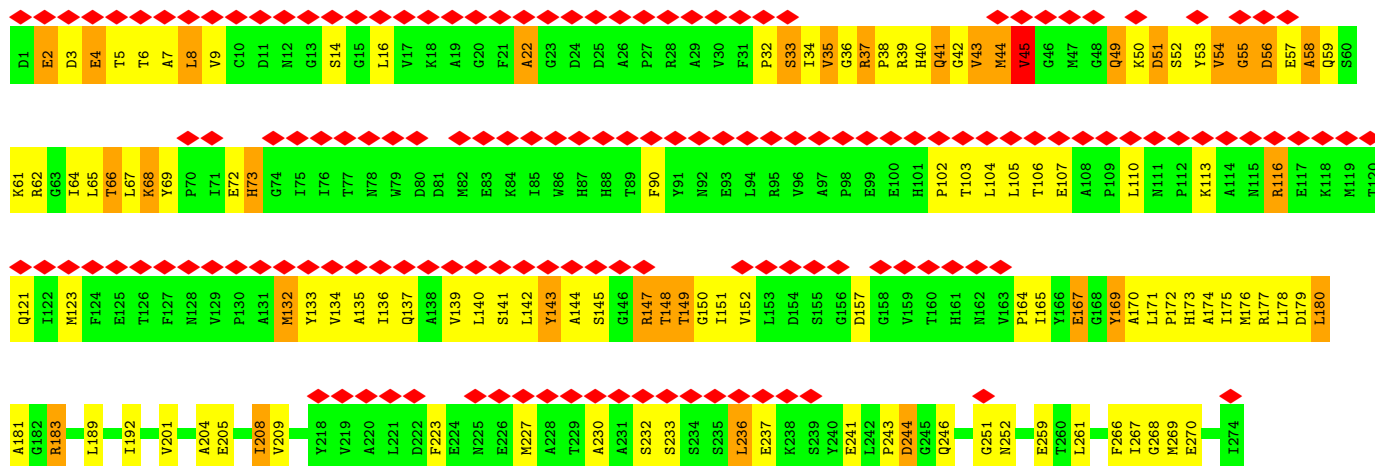




• Molecule 1: Actin, alpha skeletal muscle

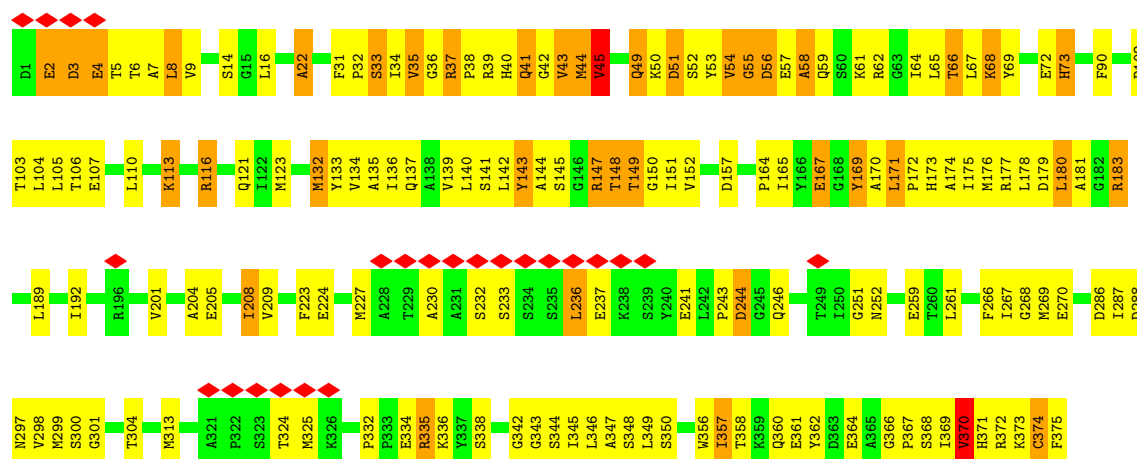


• Molecule 1: Actin, alpha skeletal muscle

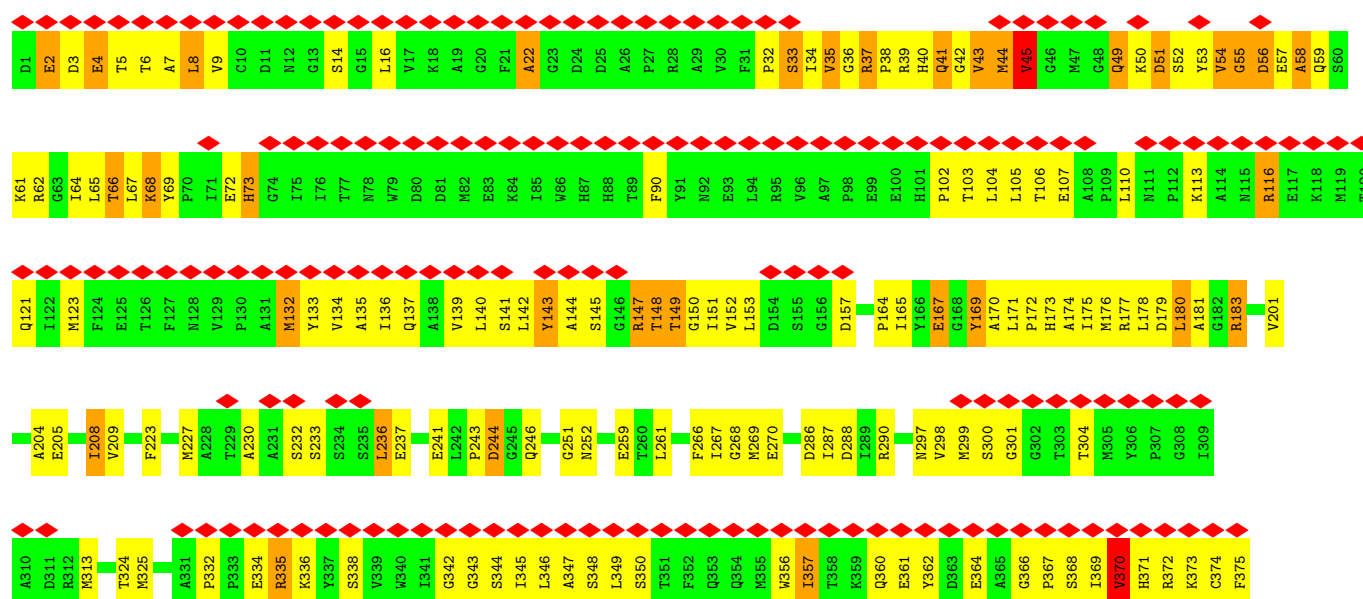




• Molecule 1: Actin, alpha skeletal muscle

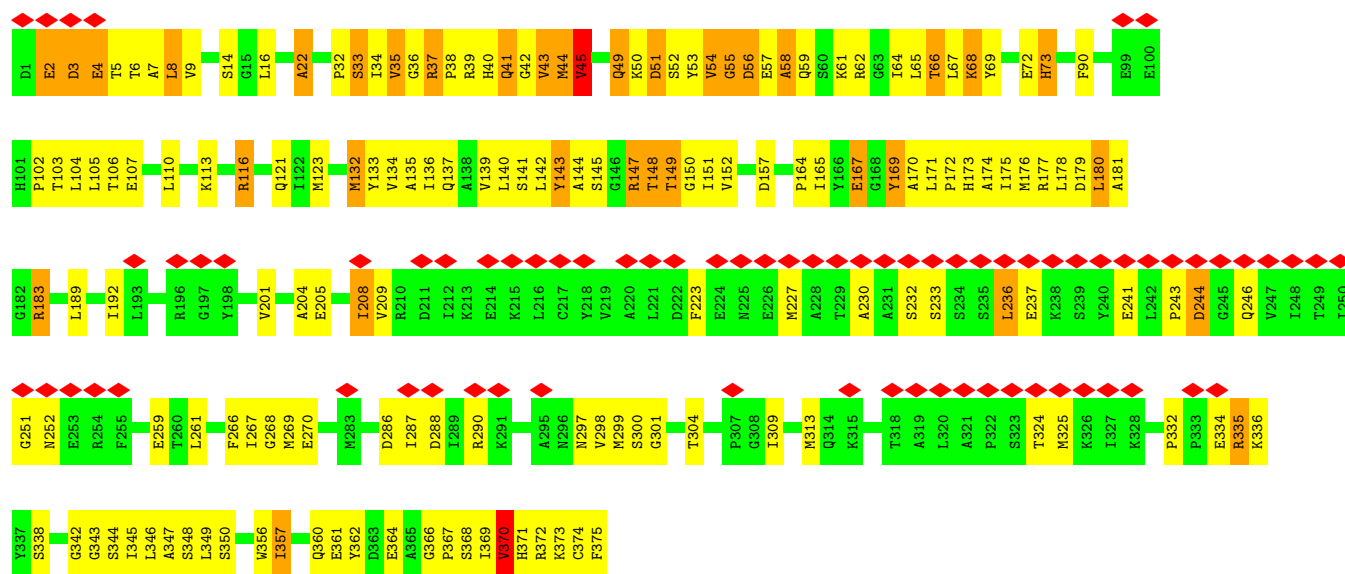


• Molecule 1: Actin, alpha skeletal muscle

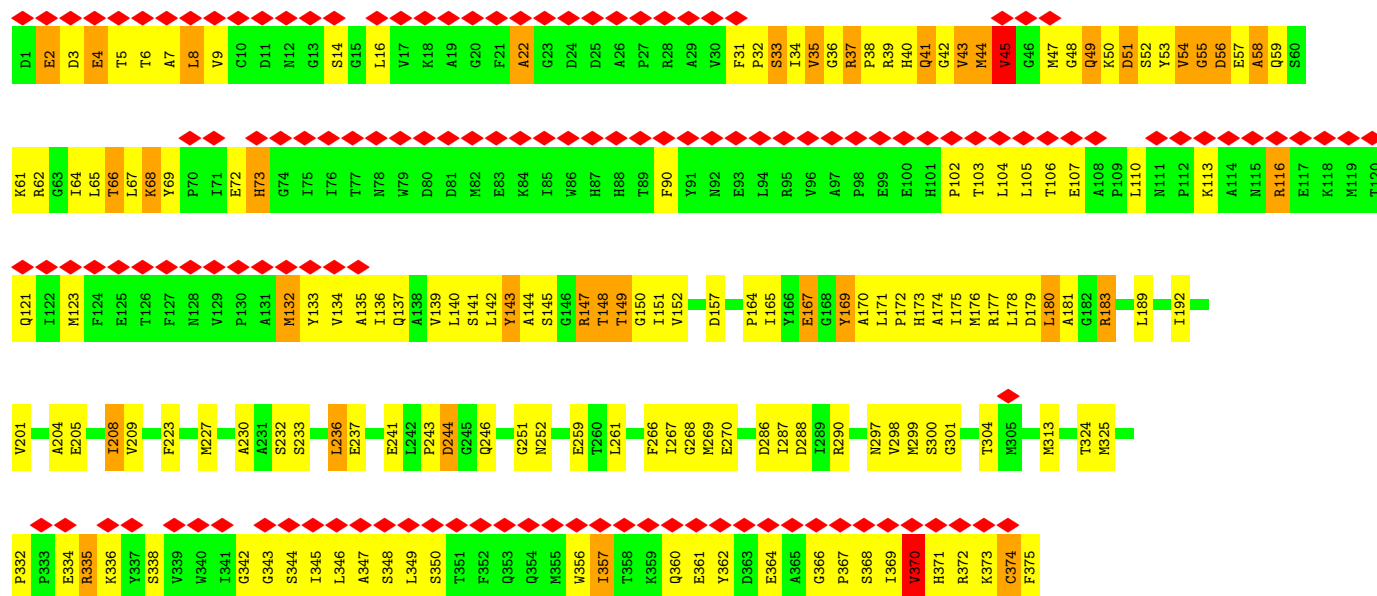


• Molecule 1: Actin, alpha skeletal muscle

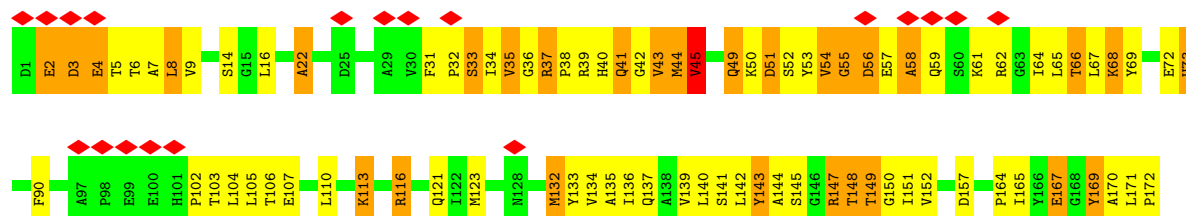


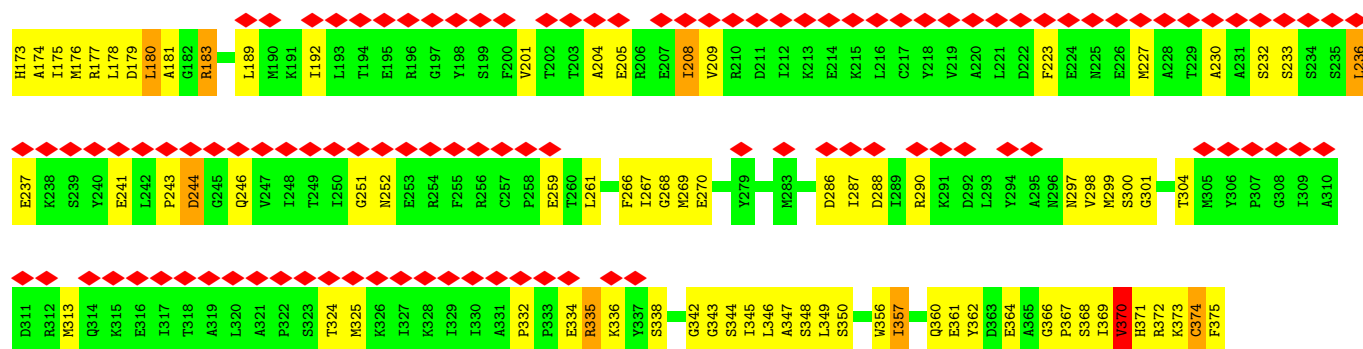


• Molecule 1: Actin, alpha skeletal muscle

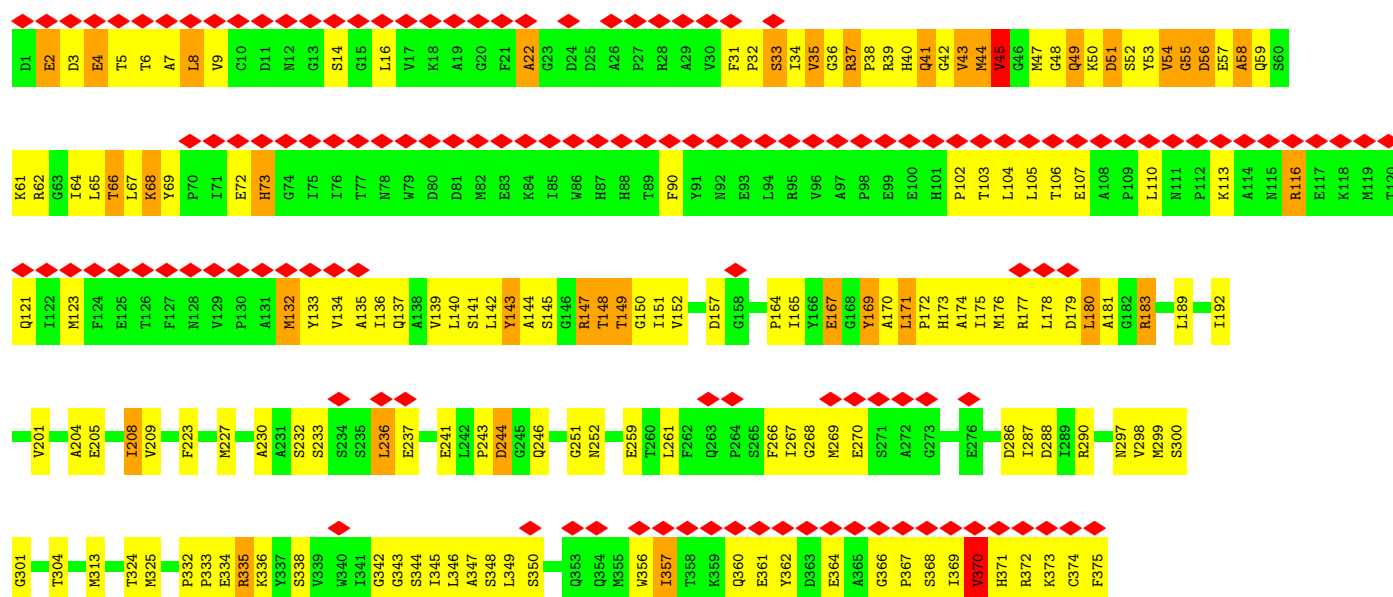


• Molecule 1: Actin, alpha skeletal muscle

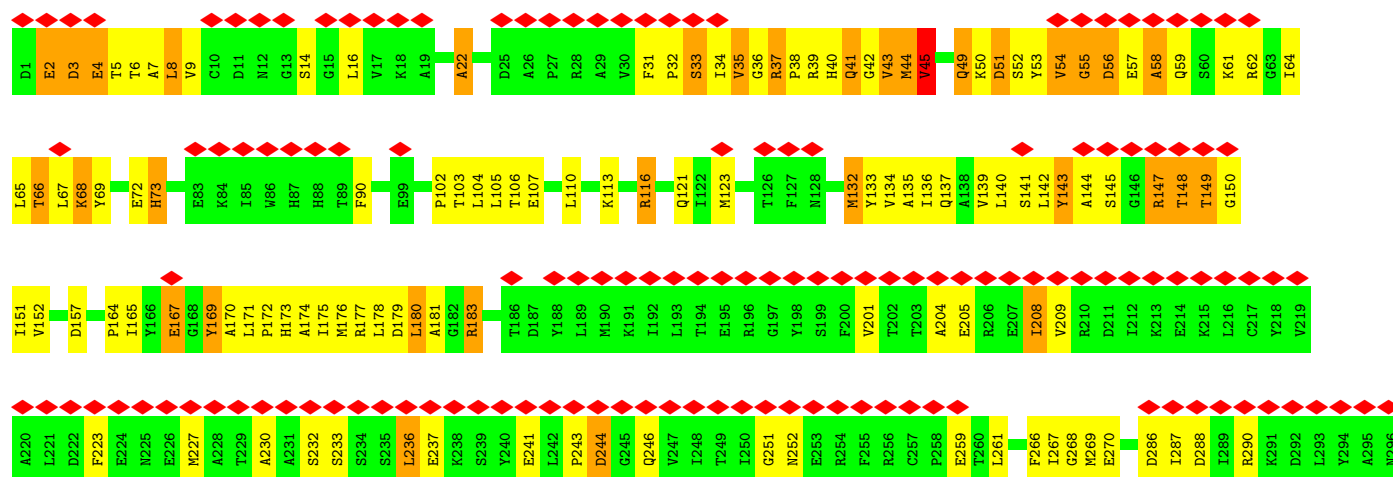


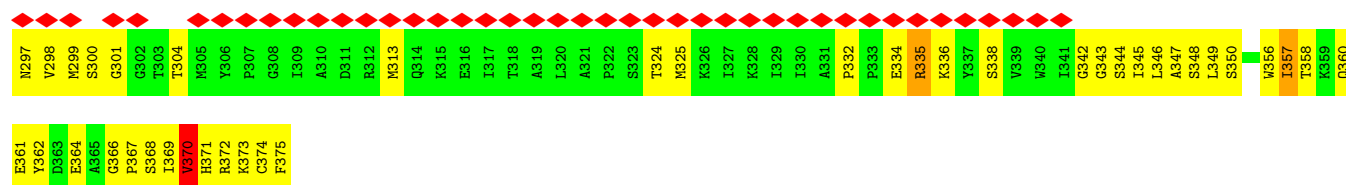


• Molecule 1: Actin, alpha skeletal muscle

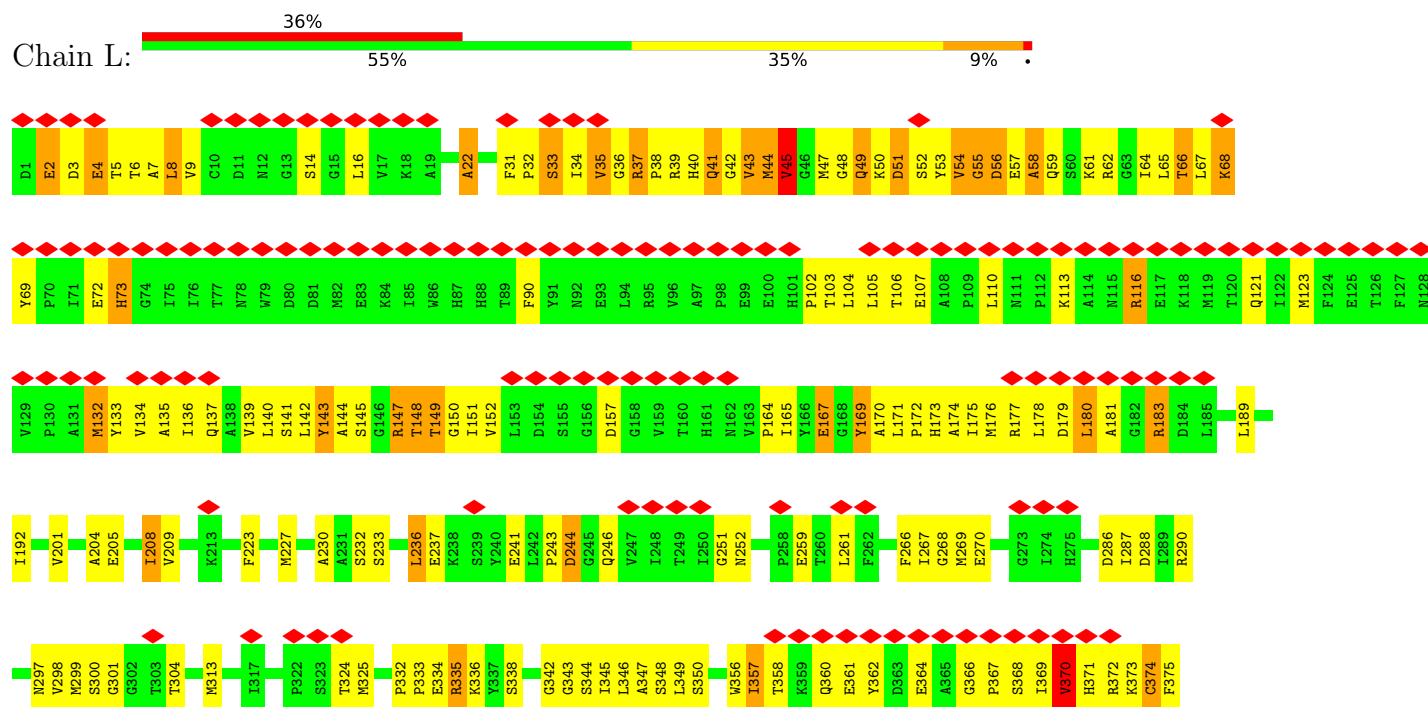


• Molecule 1: Actin, alpha skeletal muscle

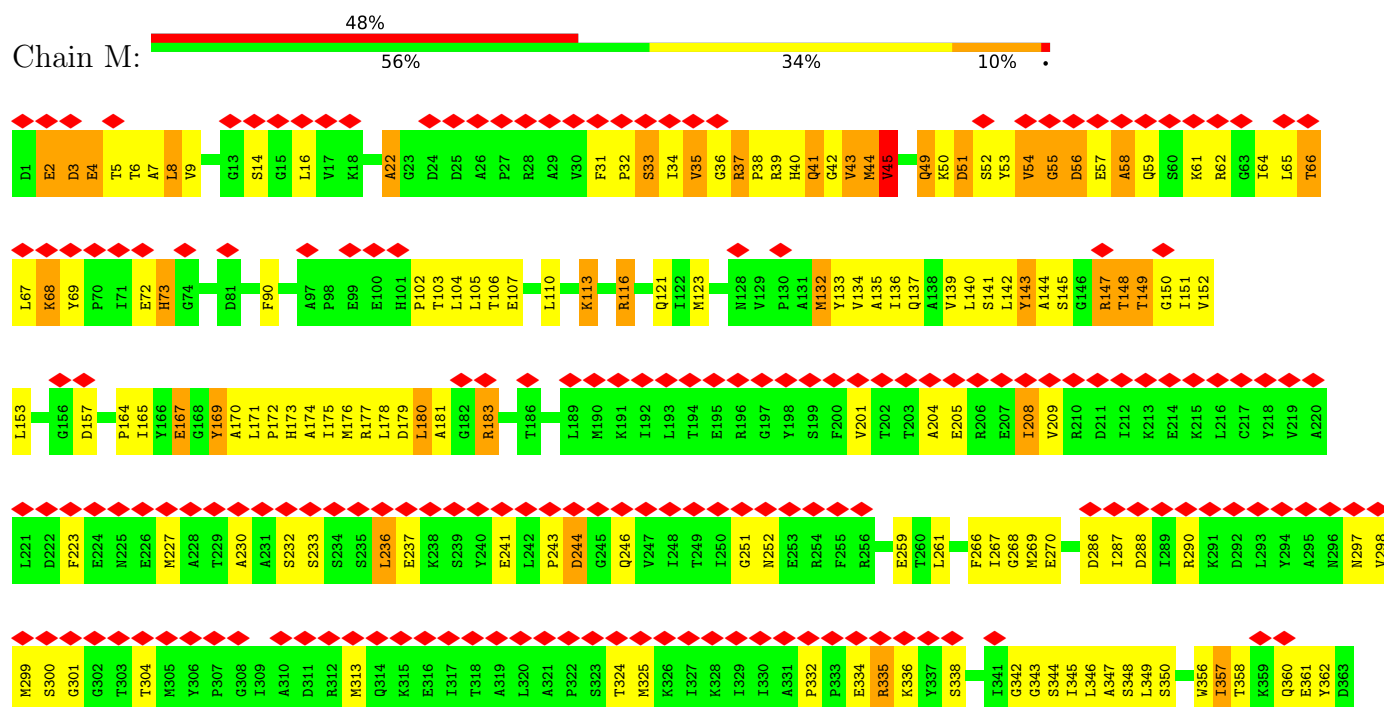




• Molecule 1: Actin, alpha skeletal muscle

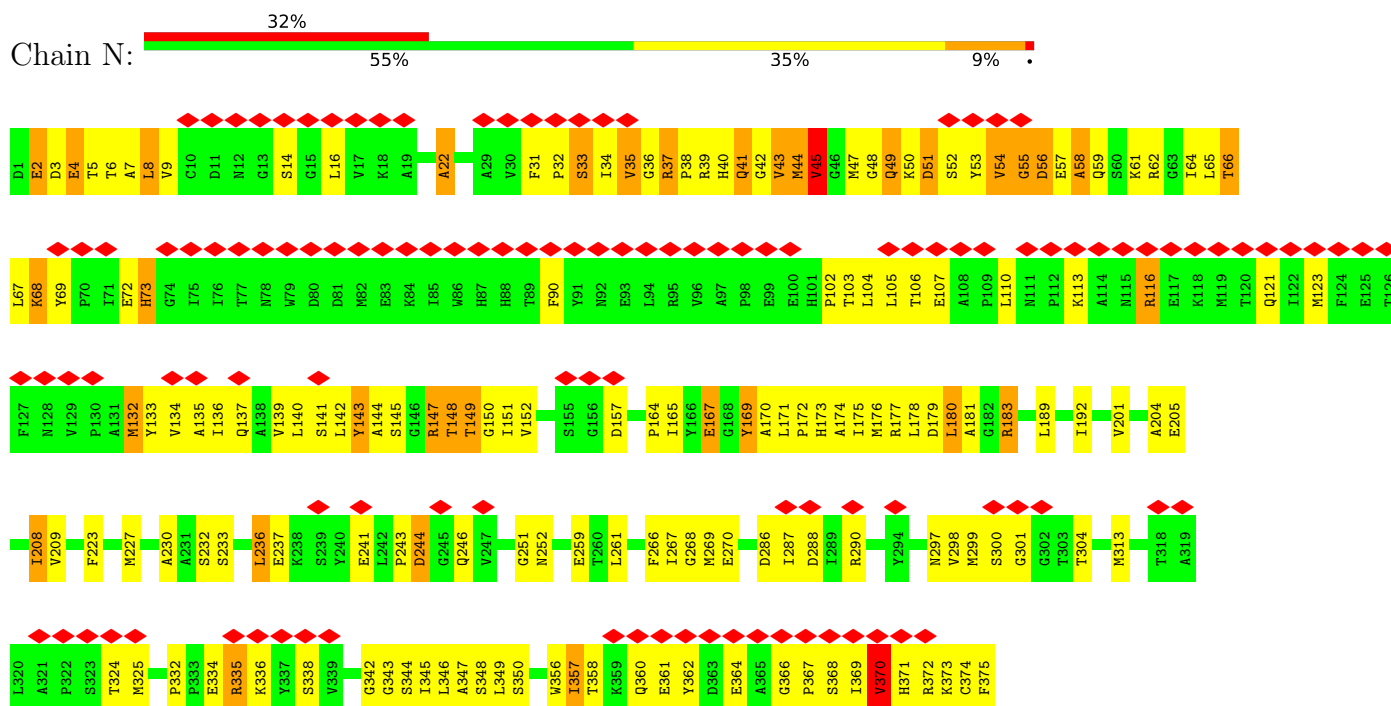


• Molecule 1: Actin, alpha skeletal muscle

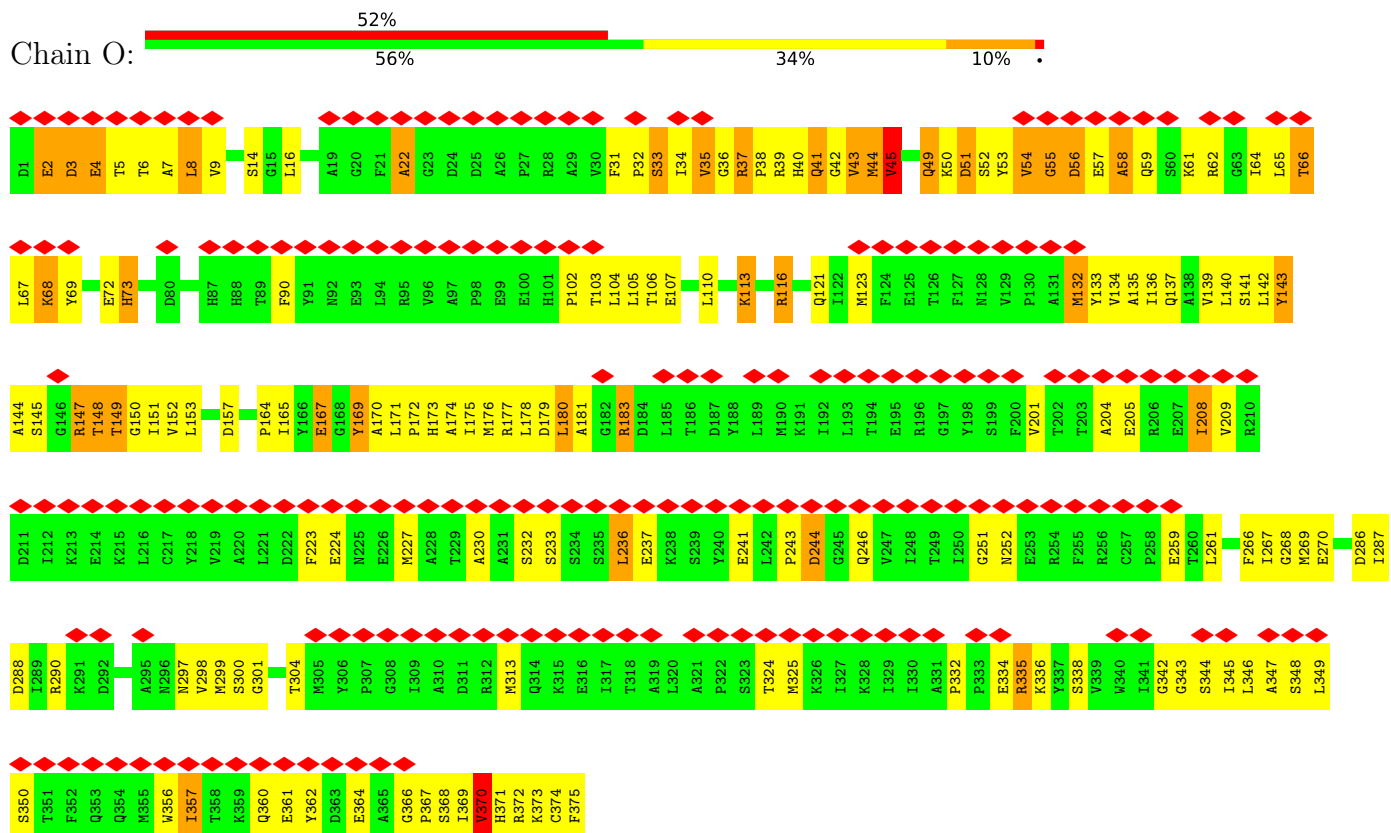




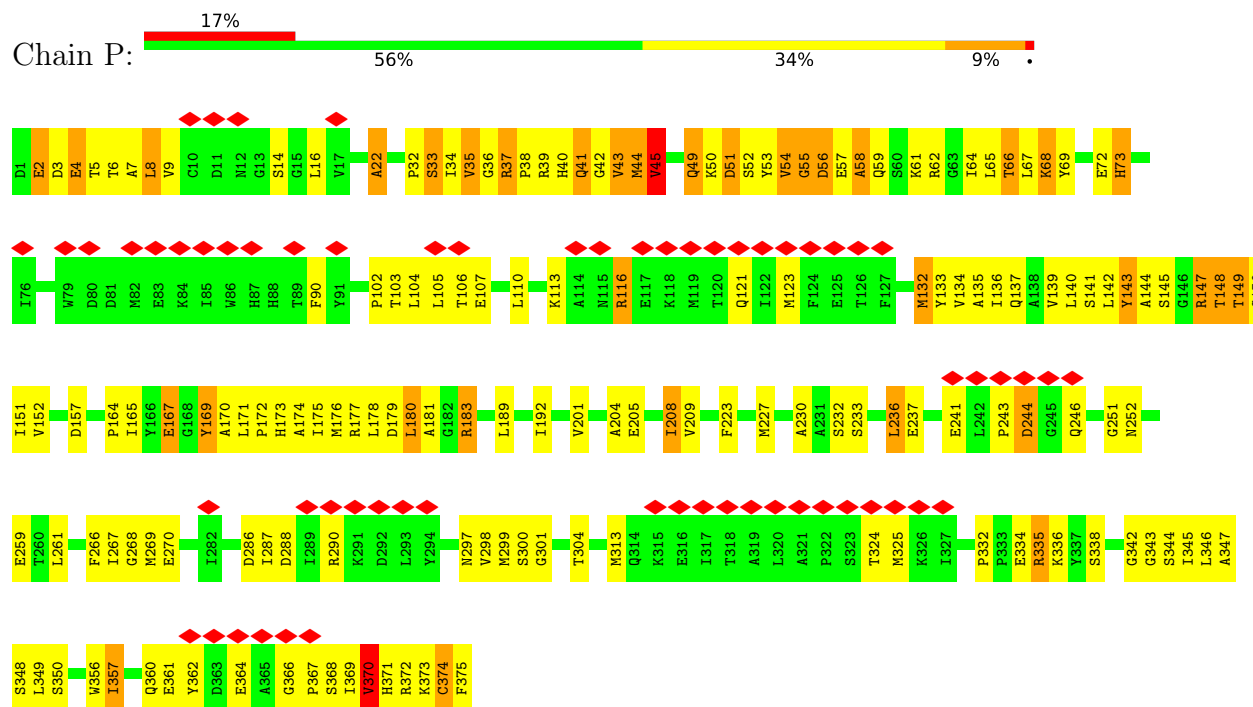
• Molecule 1: Actin, alpha skeletal muscle



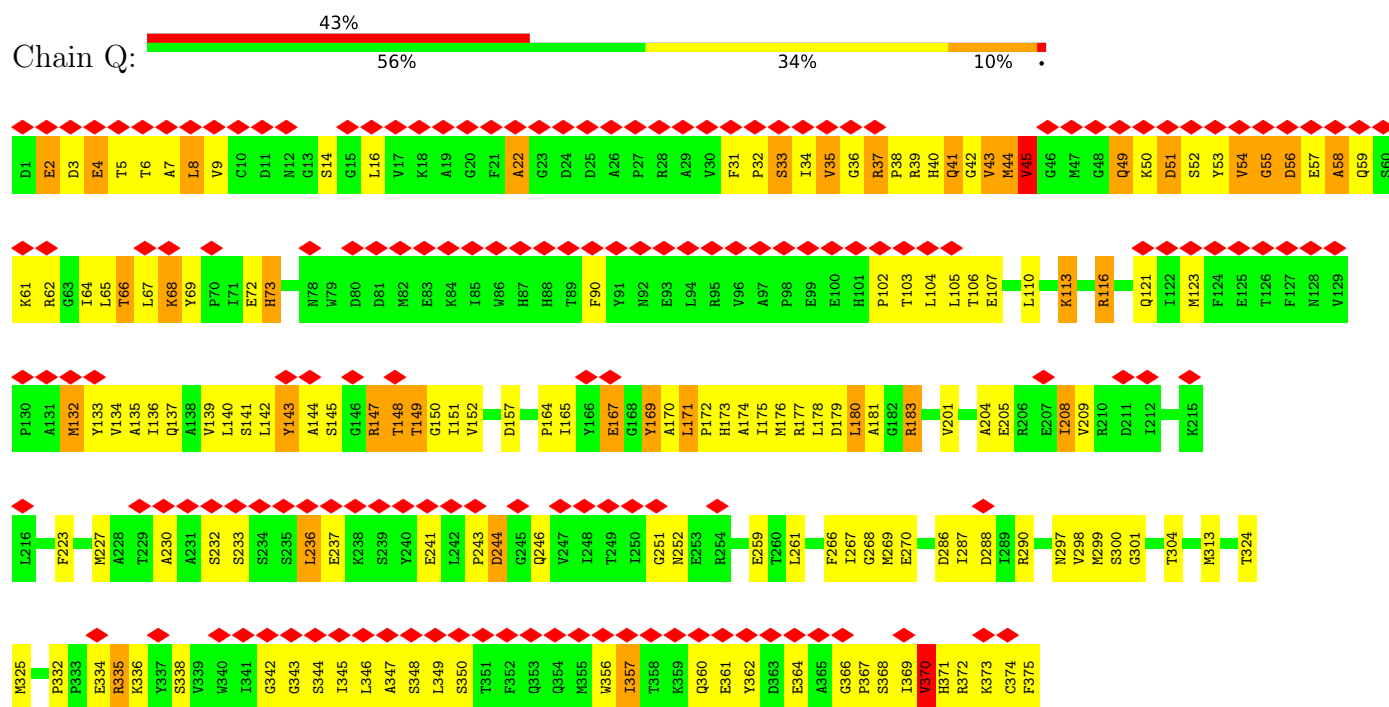
• Molecule 1: Actin, alpha skeletal muscle



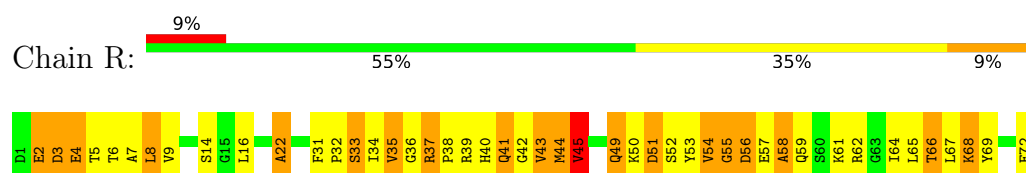
- Molecule 1: Actin, alpha skeletal muscle

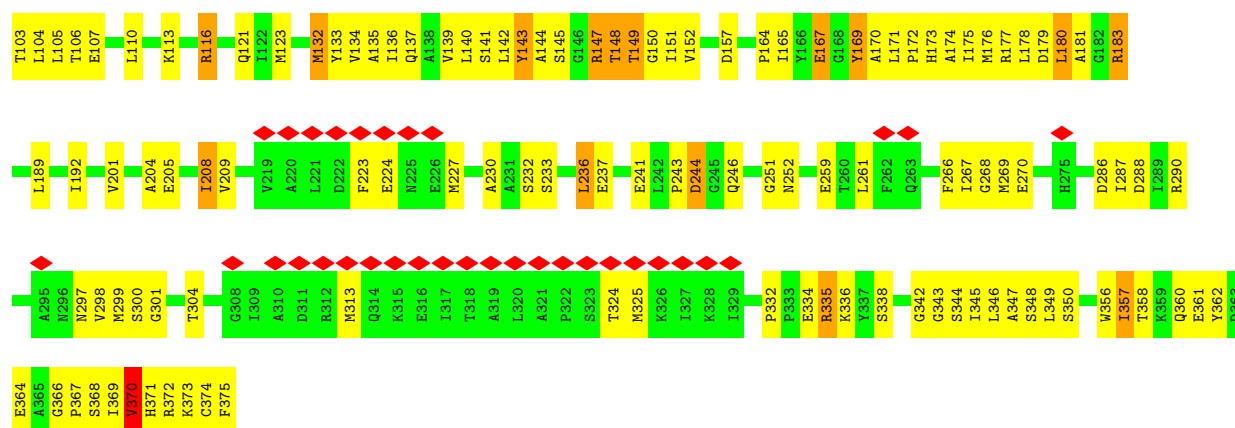


- Molecule 1: Actin, alpha skeletal muscle

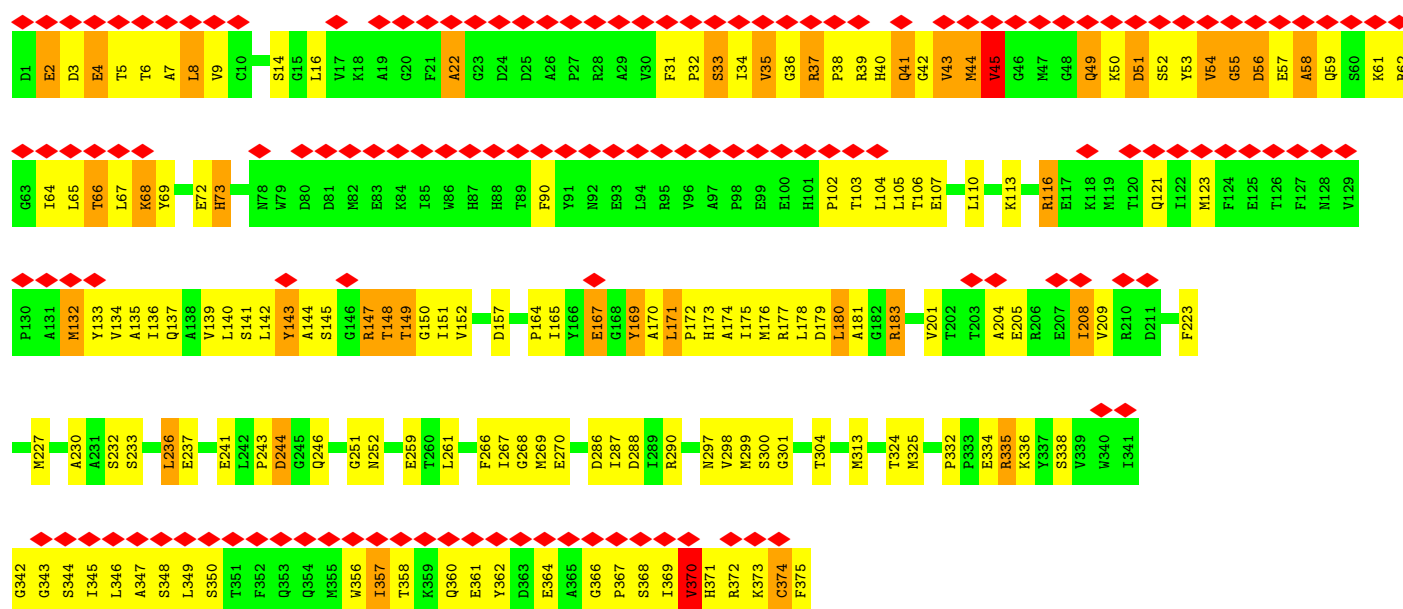


- Molecule 1: Actin, alpha skeletal muscle

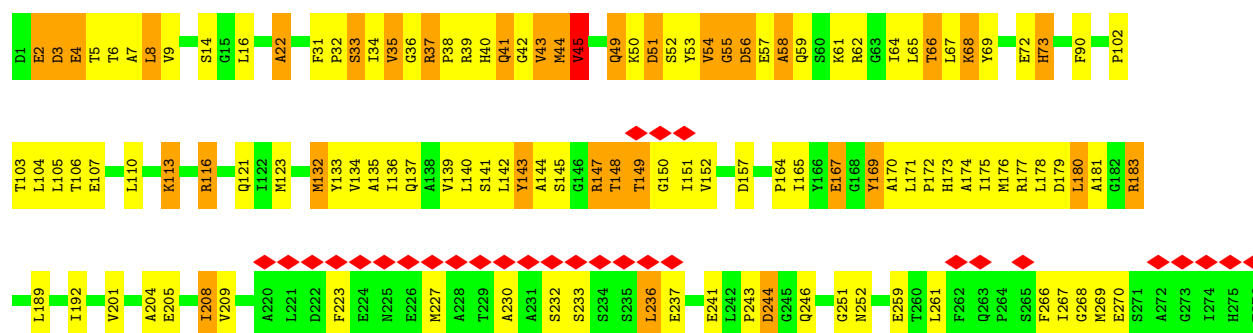


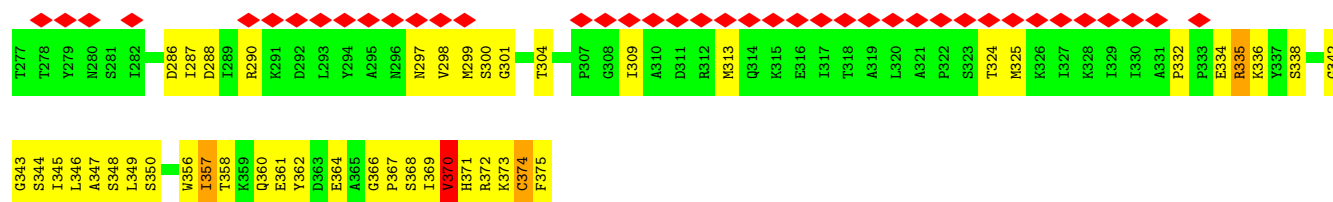


• Molecule 1: Actin, alpha skeletal muscle

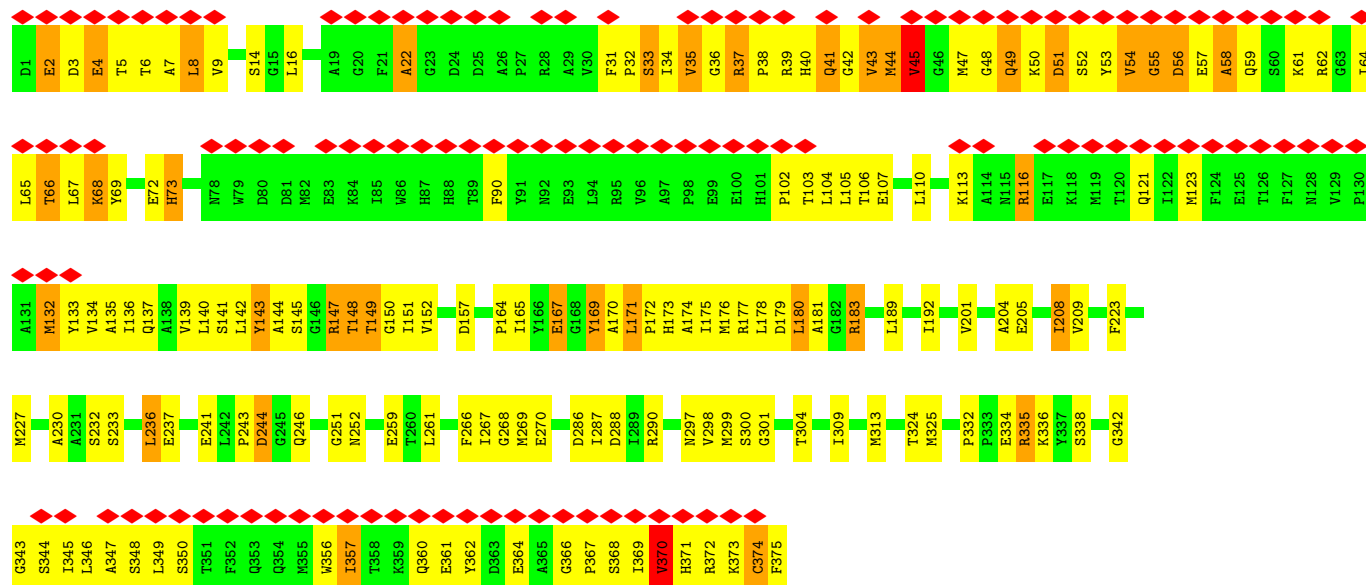


• Molecule 1: Actin, alpha skeletal muscle

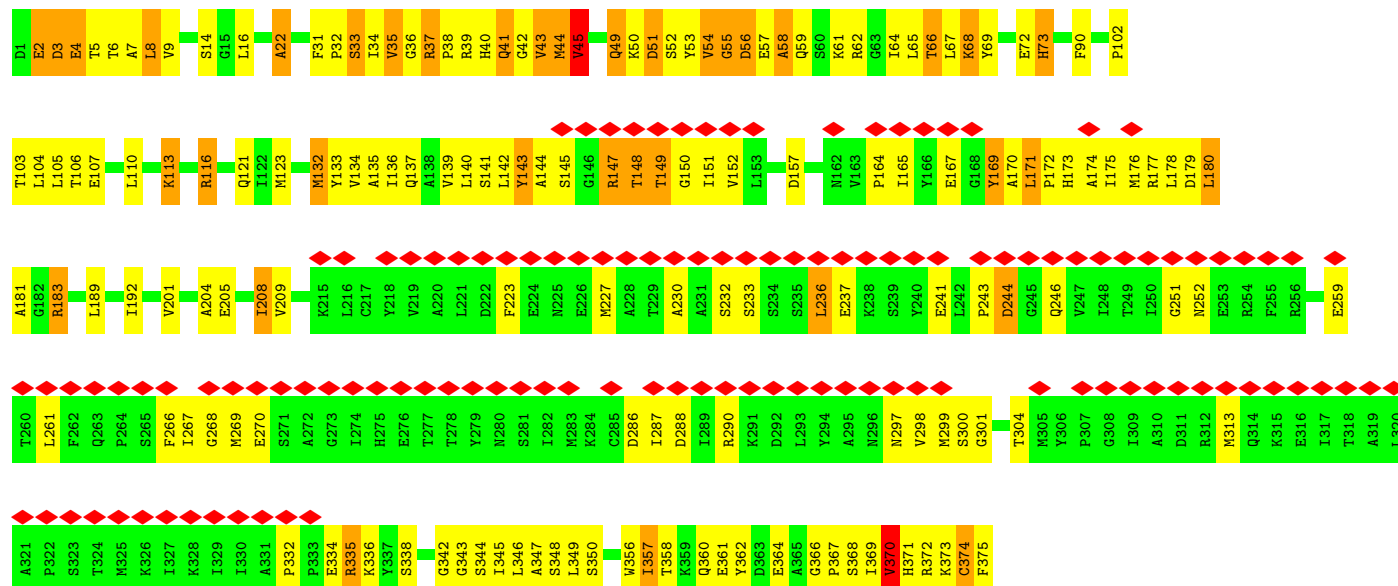




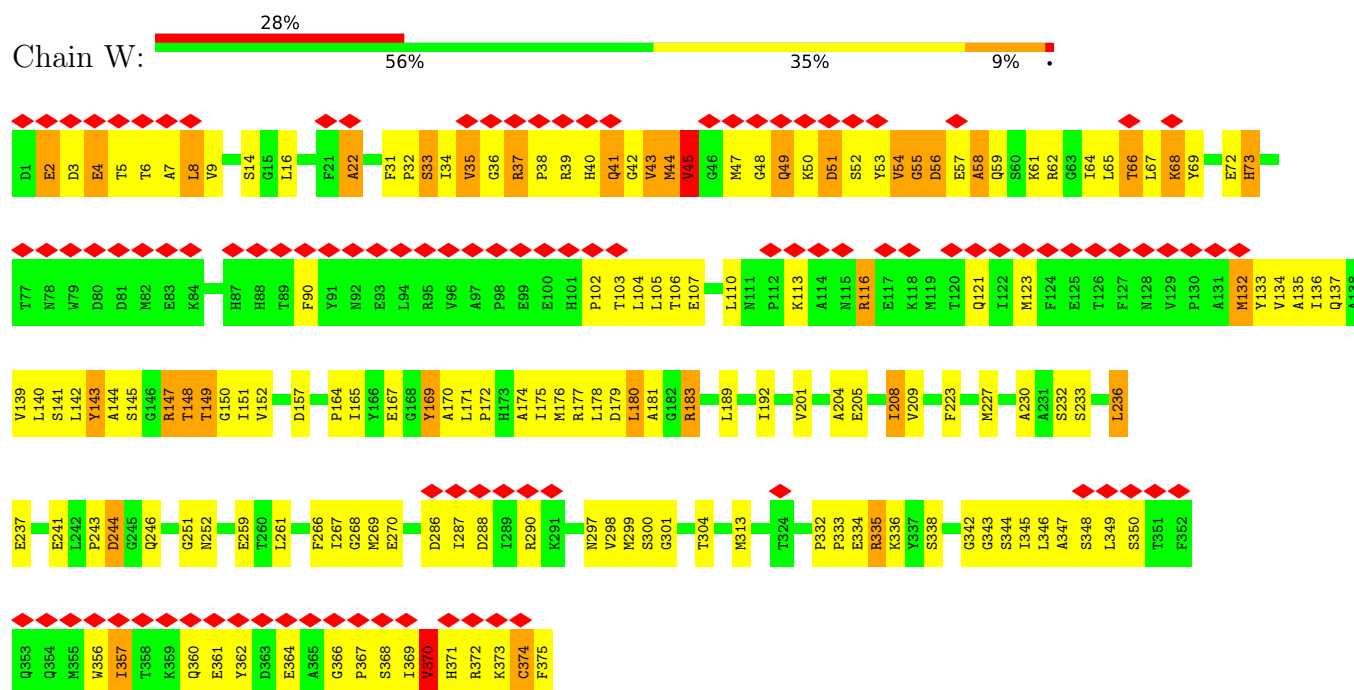
• Molecule 1: Actin, alpha skeletal muscle



• Molecule 1: Actin, alpha skeletal muscle



• Molecule 1: Actin, alpha skeletal muscle



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	1360	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI/PHILIPS CM12	Depositor
Voltage (kV)	120	Depositor
Electron dose ($e^-/\text{\AA}^2$)	12	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	AGFA SCIENTA FILM	Depositor
Maximum map value	20.259	Depositor
Minimum map value	-11.152	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.947	Depositor
Recommended contour level	1.8	Depositor
Map size ($\text{\AA}$)	633.6, 633.6, 633.6	wwPDB
Map dimensions	96, 96, 96	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	6.6, 6.6, 6.6	Depositor

5 Model quality

5.1 Standard geometry

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

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	A	0.66	0/2984	1.09	7/4040 (0.2%)
1	B	0.66	0/2984	1.09	7/4040 (0.2%)
1	C	0.66	0/2984	1.09	7/4040 (0.2%)
1	D	0.66	0/2984	1.09	7/4040 (0.2%)
1	E	0.66	0/2984	1.09	7/4040 (0.2%)
1	F	0.66	0/2984	1.09	7/4040 (0.2%)
1	G	0.66	0/2984	1.09	7/4040 (0.2%)
1	H	0.66	0/2984	1.09	7/4040 (0.2%)
1	I	0.66	0/2984	1.09	7/4040 (0.2%)
1	J	0.66	0/2984	1.09	7/4040 (0.2%)
1	K	0.66	0/2984	1.09	7/4040 (0.2%)
1	L	0.66	0/2984	1.09	7/4040 (0.2%)
1	M	0.66	0/2984	1.09	7/4040 (0.2%)
1	N	0.66	0/2984	1.09	7/4040 (0.2%)
1	O	0.66	0/2984	1.09	7/4040 (0.2%)
1	P	0.66	0/2984	1.09	7/4040 (0.2%)
1	Q	0.66	0/2984	1.09	7/4040 (0.2%)
1	R	0.66	0/2984	1.09	7/4040 (0.2%)
1	S	0.66	0/2984	1.09	7/4040 (0.2%)
1	T	0.65	0/2984	1.09	7/4040 (0.2%)
1	U	0.66	0/2984	1.09	7/4040 (0.2%)
1	V	0.66	0/2984	1.09	7/4040 (0.2%)
1	W	0.66	0/2984	1.09	7/4040 (0.2%)
All	All	0.66	0/68632	1.09	161/92920 (0.2%)

There are no bond length outliers.

All (161) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	201	VAL	O-C-N	-5.82	113.39	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	201	VAL	O-C-N	-5.81	113.40	122.70
1	G	201	VAL	O-C-N	-5.80	113.42	122.70
1	M	201	VAL	O-C-N	-5.80	113.42	122.70
1	K	201	VAL	O-C-N	-5.80	113.42	122.70
1	F	201	VAL	O-C-N	-5.80	113.42	122.70
1	H	201	VAL	O-C-N	-5.79	113.43	122.70
1	V	201	VAL	O-C-N	-5.79	113.43	122.70
1	A	201	VAL	O-C-N	-5.79	113.44	122.70
1	Q	201	VAL	O-C-N	-5.79	113.44	122.70
1	U	201	VAL	O-C-N	-5.79	113.44	122.70
1	N	201	VAL	O-C-N	-5.78	113.45	122.70
1	C	201	VAL	O-C-N	-5.78	113.45	122.70
1	R	201	VAL	O-C-N	-5.77	113.46	122.70
1	T	201	VAL	O-C-N	-5.77	113.46	122.70
1	E	201	VAL	O-C-N	-5.77	113.47	122.70
1	D	201	VAL	O-C-N	-5.77	113.47	122.70
1	L	201	VAL	O-C-N	-5.77	113.47	122.70
1	W	201	VAL	O-C-N	-5.77	113.47	122.70
1	I	201	VAL	O-C-N	-5.76	113.48	122.70
1	P	201	VAL	O-C-N	-5.76	113.48	122.70
1	S	201	VAL	O-C-N	-5.75	113.50	122.70
1	J	201	VAL	O-C-N	-5.75	113.50	122.70
1	W	169	TYR	CB-CG-CD2	-5.68	117.59	121.00
1	E	169	TYR	CB-CG-CD2	-5.65	117.61	121.00
1	L	169	TYR	CB-CG-CD2	-5.65	117.61	121.00
1	I	169	TYR	CB-CG-CD2	-5.65	117.61	121.00
1	J	169	TYR	CB-CG-CD2	-5.64	117.61	121.00
1	F	201	VAL	CA-C-N	5.63	129.59	117.20
1	B	201	VAL	CA-C-N	5.63	129.59	117.20
1	N	169	TYR	CB-CG-CD2	-5.63	117.62	121.00
1	H	201	VAL	CA-C-N	5.63	129.59	117.20
1	V	169	TYR	CB-CG-CD2	-5.63	117.62	121.00
1	P	169	TYR	CB-CG-CD2	-5.62	117.63	121.00
1	O	169	TYR	CB-CG-CD2	-5.62	117.63	121.00
1	U	201	VAL	CA-C-N	5.62	129.57	117.20
1	O	201	VAL	CA-C-N	5.62	129.56	117.20
1	U	169	TYR	CB-CG-CD2	-5.62	117.63	121.00
1	G	201	VAL	CA-C-N	5.62	129.55	117.20
1	N	201	VAL	CA-C-N	5.62	129.55	117.20
1	G	169	TYR	CB-CG-CD2	-5.61	117.63	121.00
1	M	169	TYR	CB-CG-CD2	-5.61	117.63	121.00
1	W	116	ARG	NE-CZ-NH2	-5.61	117.49	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	169	TYR	CB-CG-CD2	-5.61	117.63	121.00
1	W	201	VAL	CA-C-N	5.61	129.55	117.20
1	T	169	TYR	CB-CG-CD2	-5.61	117.63	121.00
1	T	201	VAL	CA-C-N	5.61	129.54	117.20
1	K	201	VAL	CA-C-N	5.61	129.54	117.20
1	Q	201	VAL	CA-C-N	5.61	129.54	117.20
1	A	201	VAL	CA-C-N	5.61	129.54	117.20
1	P	201	VAL	CA-C-N	5.61	129.54	117.20
1	R	201	VAL	CA-C-N	5.61	129.54	117.20
1	D	201	VAL	CA-C-N	5.60	129.53	117.20
1	I	201	VAL	CA-C-N	5.60	129.53	117.20
1	S	201	VAL	CA-C-N	5.60	129.53	117.20
1	V	201	VAL	CA-C-N	5.60	129.52	117.20
1	C	201	VAL	CA-C-N	5.60	129.52	117.20
1	D	169	TYR	CB-CG-CD2	-5.60	117.64	121.00
1	J	201	VAL	CA-C-N	5.60	129.52	117.20
1	L	201	VAL	CA-C-N	5.60	129.51	117.20
1	C	169	TYR	CB-CG-CD2	-5.59	117.64	121.00
1	M	201	VAL	CA-C-N	5.59	129.50	117.20
1	K	169	TYR	CB-CG-CD2	-5.59	117.65	121.00
1	E	201	VAL	CA-C-N	5.59	129.49	117.20
1	F	169	TYR	CB-CG-CD2	-5.59	117.65	121.00
1	Q	169	TYR	CB-CG-CD2	-5.58	117.65	121.00
1	S	169	TYR	CB-CG-CD2	-5.58	117.65	121.00
1	E	116	ARG	NE-CZ-NH2	-5.56	117.52	120.30
1	G	116	ARG	NE-CZ-NH2	-5.56	117.52	120.30
1	A	169	TYR	CB-CG-CD2	-5.55	117.67	121.00
1	H	169	TYR	CB-CG-CD2	-5.55	117.67	121.00
1	K	116	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	B	116	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	L	116	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	R	169	TYR	CB-CG-CD2	-5.51	117.69	121.00
1	O	116	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	M	116	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	S	116	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	C	116	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	T	116	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	D	116	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	J	116	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	U	116	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	N	116	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	A	116	ARG	NE-CZ-NH2	-5.46	117.57	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	116	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	A	205	GLU	CG-CD-OE2	-5.45	107.41	118.30
1	Q	116	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	R	116	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	E	205	GLU	CG-CD-OE2	-5.44	107.42	118.30
1	S	205	GLU	CG-CD-OE2	-5.44	107.43	118.30
1	V	116	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	B	205	GLU	CG-CD-OE2	-5.43	107.43	118.30
1	C	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	D	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	J	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	P	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	G	205	GLU	CG-CD-OE2	-5.43	107.45	118.30
1	L	205	GLU	CG-CD-OE2	-5.43	107.45	118.30
1	N	205	GLU	CG-CD-OE2	-5.43	107.45	118.30
1	F	205	GLU	CG-CD-OE2	-5.42	107.45	118.30
1	I	205	GLU	CG-CD-OE2	-5.42	107.45	118.30
1	H	116	ARG	NE-CZ-NH2	-5.42	117.59	120.30
1	M	205	GLU	CG-CD-OE2	-5.42	107.46	118.30
1	W	205	GLU	CG-CD-OE2	-5.42	107.46	118.30
1	O	205	GLU	CG-CD-OE2	-5.42	107.46	118.30
1	H	205	GLU	CG-CD-OE2	-5.42	107.47	118.30
1	T	205	GLU	CG-CD-OE2	-5.41	107.47	118.30
1	Q	205	GLU	CG-CD-OE2	-5.41	107.48	118.30
1	R	205	GLU	CG-CD-OE2	-5.41	107.47	118.30
1	E	313	MET	CG-SD-CE	5.41	108.86	100.20
1	K	205	GLU	CG-CD-OE2	-5.41	107.48	118.30
1	V	205	GLU	CG-CD-OE2	-5.41	107.48	118.30
1	A	313	MET	CG-SD-CE	5.41	108.85	100.20
1	K	313	MET	CG-SD-CE	5.40	108.85	100.20
1	U	205	GLU	CG-CD-OE2	-5.40	107.49	118.30
1	B	313	MET	CG-SD-CE	5.40	108.84	100.20
1	F	116	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	I	116	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	G	313	MET	CG-SD-CE	5.40	108.83	100.20
1	V	313	MET	CG-SD-CE	5.40	108.84	100.20
1	J	313	MET	CG-SD-CE	5.39	108.83	100.20
1	N	313	MET	CG-SD-CE	5.39	108.82	100.20
1	O	313	MET	CG-SD-CE	5.39	108.82	100.20
1	C	313	MET	CG-SD-CE	5.38	108.82	100.20
1	M	313	MET	CG-SD-CE	5.38	108.81	100.20
1	U	313	MET	CG-SD-CE	5.38	108.81	100.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	313	MET	CG-SD-CE	5.38	108.80	100.20
1	F	313	MET	CG-SD-CE	5.38	108.80	100.20
1	Q	313	MET	CG-SD-CE	5.38	108.80	100.20
1	L	313	MET	CG-SD-CE	5.37	108.80	100.20
1	S	313	MET	CG-SD-CE	5.37	108.80	100.20
1	T	313	MET	CG-SD-CE	5.37	108.80	100.20
1	H	313	MET	CG-SD-CE	5.37	108.79	100.20
1	P	313	MET	CG-SD-CE	5.37	108.79	100.20
1	I	313	MET	CG-SD-CE	5.37	108.79	100.20
1	R	313	MET	CG-SD-CE	5.36	108.78	100.20
1	D	313	MET	CG-SD-CE	5.36	108.77	100.20
1	I	22	ALA	C-N-CA	-5.16	111.47	122.30
1	B	22	ALA	C-N-CA	-5.16	111.47	122.30
1	U	22	ALA	C-N-CA	-5.15	111.48	122.30
1	E	22	ALA	C-N-CA	-5.15	111.48	122.30
1	T	22	ALA	C-N-CA	-5.15	111.48	122.30
1	J	22	ALA	C-N-CA	-5.15	111.49	122.30
1	V	22	ALA	C-N-CA	-5.15	111.49	122.30
1	K	22	ALA	C-N-CA	-5.14	111.50	122.30
1	M	22	ALA	C-N-CA	-5.14	111.50	122.30
1	H	22	ALA	C-N-CA	-5.14	111.50	122.30
1	C	22	ALA	C-N-CA	-5.14	111.51	122.30
1	F	22	ALA	C-N-CA	-5.14	111.51	122.30
1	L	22	ALA	C-N-CA	-5.14	111.51	122.30
1	Q	22	ALA	C-N-CA	-5.14	111.51	122.30
1	A	22	ALA	C-N-CA	-5.13	111.52	122.30
1	P	22	ALA	C-N-CA	-5.13	111.52	122.30
1	R	22	ALA	C-N-CA	-5.13	111.52	122.30
1	W	22	ALA	C-N-CA	-5.13	111.53	122.30
1	G	22	ALA	C-N-CA	-5.12	111.54	122.30
1	S	22	ALA	C-N-CA	-5.12	111.54	122.30
1	D	22	ALA	C-N-CA	-5.12	111.54	122.30
1	N	22	ALA	C-N-CA	-5.11	111.56	122.30
1	O	22	ALA	C-N-CA	-5.11	111.56	122.30

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	A	2934	0	2895	333	0
1	B	2934	0	2895	337	0
1	C	2934	0	2895	376	0
1	D	2934	0	2895	372	0
1	E	2934	0	2895	379	0
1	F	2934	0	2895	372	0
1	G	2934	0	2895	372	0
1	H	2934	0	2895	370	0
1	I	2934	0	2895	369	0
1	J	2934	0	2895	372	0
1	K	2934	0	2895	366	0
1	L	2934	0	2895	380	0
1	M	2934	0	2895	372	0
1	N	2934	0	2895	374	0
1	O	2934	0	2895	373	0
1	P	2934	0	2895	369	0
1	Q	2934	0	2895	376	0
1	R	2934	0	2895	367	0
1	S	2934	0	2895	376	0
1	T	2934	0	2895	371	0
1	U	2934	0	2895	375	0
1	V	2934	0	2895	335	0
1	W	2934	0	2895	330	0
2	A	27	0	12	4	0
2	B	27	0	12	4	0
2	C	27	0	12	4	0
2	D	27	0	12	4	0
2	E	27	0	12	4	0
2	F	27	0	12	5	0
2	G	27	0	12	4	0
2	H	27	0	12	4	0
2	I	27	0	12	4	0
2	J	27	0	12	4	0
2	K	27	0	12	4	0
2	L	27	0	12	4	0
2	M	27	0	12	5	0
2	N	27	0	12	4	0
2	O	27	0	12	5	0
2	P	27	0	12	4	0
2	Q	27	0	12	4	0
2	R	27	0	12	4	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	S	27	0	12	4	0
2	T	27	0	12	4	0
2	U	27	0	12	4	0
2	V	27	0	12	4	0
2	W	27	0	12	4	0
All	All	68103	0	66861	7529	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 56.

All (7529) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:ARG:HD2	1:H:244:ASP:HB2	1.22	1.20
1:D:290:ARG:HD2	1:F:244:ASP:HB2	1.21	1.20
1:H:290:ARG:HD2	1:J:244:ASP:HB2	1.21	1.20
1:G:59:GLN:O	1:G:62:ARG:HG3	1.43	1.19
1:N:59:GLN:O	1:N:62:ARG:HG3	1.43	1.19
1:U:59:GLN:O	1:U:62:ARG:HG3	1.43	1.19
1:P:59:GLN:O	1:P:62:ARG:HG3	1.43	1.19
1:I:59:GLN:O	1:I:62:ARG:HG3	1.43	1.18
1:W:59:GLN:O	1:W:62:ARG:HG3	1.43	1.18
1:E:59:GLN:O	1:E:62:ARG:HG3	1.43	1.18
1:L:59:GLN:O	1:L:62:ARG:HG3	1.43	1.18
1:S:59:GLN:O	1:S:62:ARG:HG3	1.43	1.18
1:B:290:ARG:HD2	1:D:244:ASP:HB2	1.22	1.18
1:B:59:GLN:O	1:B:62:ARG:HG3	1.43	1.17
1:F:59:GLN:O	1:F:62:ARG:HG3	1.43	1.17
1:J:59:GLN:O	1:J:62:ARG:HG3	1.43	1.17
1:J:290:ARG:HD2	1:L:244:ASP:HB2	1.21	1.17
1:D:59:GLN:O	1:D:62:ARG:HG3	1.43	1.17
1:R:59:GLN:O	1:R:62:ARG:HG3	1.43	1.17
1:K:59:GLN:O	1:K:62:ARG:HG3	1.43	1.17
1:Q:59:GLN:O	1:Q:62:ARG:HG3	1.43	1.16
1:V:59:GLN:O	1:V:62:ARG:HG3	1.43	1.16
1:C:59:GLN:O	1:C:62:ARG:HG3	1.43	1.16
1:T:59:GLN:O	1:T:62:ARG:HG3	1.43	1.16
1:K:361:GLU:HB3	1:K:369:ILE:HD13	1.19	1.16
1:A:59:GLN:O	1:A:62:ARG:HG3	1.43	1.15
1:H:59:GLN:O	1:H:62:ARG:HG3	1.43	1.15
1:M:59:GLN:O	1:M:62:ARG:HG3	1.43	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:290:ARG:HD2	1:N:244:ASP:HB2	1.21	1.14
1:O:59:GLN:O	1:O:62:ARG:HG3	1.43	1.14
1:O:361:GLU:HB3	1:O:369:ILE:HD13	1.19	1.14
1:M:43:VAL:HG13	1:M:44:MET:N	1.54	1.14
1:N:34:ILE:HB	1:N:54:VAL:HG11	1.30	1.14
1:A:34:ILE:HB	1:A:54:VAL:HG11	1.30	1.13
1:D:361:GLU:HB3	1:D:369:ILE:HD13	1.19	1.13
1:V:361:GLU:HB3	1:V:369:ILE:HD13	1.19	1.13
1:C:34:ILE:HB	1:C:54:VAL:HG11	1.30	1.13
1:J:43:VAL:HG13	1:J:44:MET:N	1.54	1.13
1:L:43:VAL:HG13	1:L:44:MET:N	1.54	1.13
1:Q:361:GLU:HB3	1:Q:369:ILE:HD13	1.19	1.13
1:S:357:ILE:HG12	1:S:370:VAL:HG23	1.13	1.13
1:D:357:ILE:HG12	1:D:370:VAL:HG23	1.13	1.13
1:I:357:ILE:HG12	1:I:370:VAL:HG23	1.13	1.13
1:M:357:ILE:HG12	1:M:370:VAL:HG23	1.13	1.13
1:F:357:ILE:HG12	1:F:370:VAL:HG23	1.13	1.12
1:H:43:VAL:HG13	1:H:44:MET:N	1.54	1.13
1:O:357:ILE:HG12	1:O:370:VAL:HG23	1.13	1.12
1:P:34:ILE:HB	1:P:54:VAL:HG11	1.30	1.13
1:W:43:VAL:HG13	1:W:44:MET:N	1.54	1.13
1:U:357:ILE:HG12	1:U:370:VAL:HG23	1.13	1.12
1:G:361:GLU:HB3	1:G:369:ILE:HD13	1.19	1.12
1:H:357:ILE:HG12	1:H:370:VAL:HG23	1.13	1.12
1:V:357:ILE:HG12	1:V:370:VAL:HG23	1.13	1.12
1:K:43:VAL:HG13	1:K:44:MET:N	1.54	1.12
1:K:290:ARG:HD2	1:M:244:ASP:HB2	1.21	1.12
1:M:290:ARG:HD2	1:O:244:ASP:HB2	1.21	1.12
1:N:43:VAL:HG13	1:N:44:MET:N	1.54	1.12
1:L:34:ILE:HB	1:L:54:VAL:HG11	1.30	1.12
1:M:361:GLU:HB3	1:M:369:ILE:HD13	1.19	1.12
1:T:34:ILE:HB	1:T:54:VAL:HG11	1.30	1.12
1:T:357:ILE:HG12	1:T:370:VAL:HG23	1.13	1.12
1:W:357:ILE:HG12	1:W:370:VAL:HG23	1.13	1.12
1:N:361:GLU:HB3	1:N:369:ILE:HD13	1.19	1.12
1:A:43:VAL:HG13	1:A:44:MET:N	1.54	1.11
1:G:34:ILE:HB	1:G:54:VAL:HG11	1.30	1.11
1:G:357:ILE:HG12	1:G:370:VAL:HG23	1.13	1.11
1:U:43:VAL:HG13	1:U:44:MET:N	1.54	1.11
1:B:357:ILE:HG12	1:B:370:VAL:HG23	1.13	1.11
1:E:357:ILE:HG12	1:E:370:VAL:HG23	1.13	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:43:VAL:HG13	1:F:44:MET:N	1.54	1.11
1:I:290:ARG:HD2	1:K:244:ASP:HB2	1.21	1.11
1:J:357:ILE:HG12	1:J:370:VAL:HG23	1.13	1.11
1:K:357:ILE:HG12	1:K:370:VAL:HG23	1.13	1.11
1:L:357:ILE:HG12	1:L:370:VAL:HG23	1.13	1.11
1:N:290:ARG:HD2	1:P:244:ASP:HB2	1.21	1.11
1:O:290:ARG:HD2	1:Q:244:ASP:HB2	1.21	1.11
1:E:34:ILE:HB	1:E:54:VAL:HG11	1.30	1.11
1:R:34:ILE:HB	1:R:54:VAL:HG11	1.30	1.11
1:U:290:ARG:HD2	1:W:244:ASP:HB2	1.21	1.11
1:D:43:VAL:HG13	1:D:44:MET:N	1.54	1.11
1:Q:357:ILE:HG12	1:Q:370:VAL:HG23	1.13	1.11
1:A:361:GLU:HB3	1:A:369:ILE:HD13	1.19	1.11
1:P:357:ILE:HG12	1:P:370:VAL:HG23	1.13	1.11
1:A:357:ILE:HG12	1:A:370:VAL:HG23	1.13	1.10
1:F:361:GLU:HB3	1:F:369:ILE:HD13	1.20	1.10
1:G:290:ARG:HD2	1:I:244:ASP:HB2	1.22	1.10
1:I:43:VAL:HG13	1:I:44:MET:N	1.54	1.10
1:Q:180:LEU:HD21	1:Q:261:LEU:HD23	1.34	1.10
1:C:43:VAL:HG13	1:C:44:MET:N	1.54	1.10
1:E:180:LEU:HD21	1:E:261:LEU:HD23	1.34	1.10
1:J:34:ILE:HB	1:J:54:VAL:HG11	1.30	1.10
1:J:361:GLU:HB3	1:J:369:ILE:HD13	1.19	1.10
1:P:43:VAL:HG13	1:P:44:MET:N	1.54	1.10
1:R:180:LEU:HD21	1:R:261:LEU:HD23	1.34	1.10
1:A:290:ARG:HD2	1:C:244:ASP:HB2	1.21	1.10
1:D:180:LEU:HD21	1:D:261:LEU:HD23	1.34	1.10
1:E:290:ARG:HD2	1:G:244:ASP:HB2	1.21	1.10
1:P:361:GLU:HB3	1:P:369:ILE:HD13	1.19	1.10
1:Q:290:ARG:HD2	1:S:244:ASP:HB2	1.21	1.10
1:U:361:GLU:HB3	1:U:369:ILE:HD13	1.19	1.10
1:V:34:ILE:HB	1:V:54:VAL:HG11	1.30	1.10
1:W:361:GLU:HB3	1:W:369:ILE:HD13	1.19	1.10
1:C:290:ARG:HD2	1:E:244:ASP:HB2	1.21	1.10
1:F:180:LEU:HD21	1:F:261:LEU:HD23	1.34	1.10
1:I:34:ILE:HB	1:I:54:VAL:HG11	1.30	1.10
1:L:361:GLU:HB3	1:L:369:ILE:HD13	1.19	1.10
1:R:357:ILE:HG12	1:R:370:VAL:HG23	1.13	1.10
1:S:290:ARG:HD2	1:U:244:ASP:HB2	1.21	1.10
1:T:180:LEU:HD21	1:T:261:LEU:HD23	1.33	1.10
1:B:361:GLU:HB3	1:B:369:ILE:HD13	1.19	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:180:LEU:HD21	1:G:261:LEU:HD23	1.34	1.10
1:H:34:ILE:HB	1:H:54:VAL:HG11	1.30	1.10
1:N:357:ILE:HG12	1:N:370:VAL:HG23	1.13	1.10
1:S:43:VAL:HG13	1:S:44:MET:N	1.54	1.10
1:S:180:LEU:HD21	1:S:261:LEU:HD23	1.34	1.10
1:C:361:GLU:HB3	1:C:369:ILE:HD13	1.19	1.09
1:J:208:ILE:HD11	1:J:243:PRO:HD2	1.34	1.09
1:K:180:LEU:HD21	1:K:261:LEU:HD23	1.34	1.09
1:R:361:GLU:HB3	1:R:369:ILE:HD13	1.19	1.09
1:B:208:ILE:HD11	1:B:243:PRO:HD2	1.34	1.09
1:M:180:LEU:HD21	1:M:261:LEU:HD23	1.34	1.09
1:O:208:ILE:HD11	1:O:243:PRO:HD2	1.34	1.09
1:P:208:ILE:HD11	1:P:243:PRO:HD2	1.34	1.09
1:V:180:LEU:HD21	1:V:261:LEU:HD23	1.34	1.09
1:W:34:ILE:HB	1:W:54:VAL:HG11	1.30	1.09
1:D:208:ILE:HD11	1:D:243:PRO:HD2	1.34	1.09
1:L:43:VAL:HG13	1:L:44:MET:H	0.92	1.09
1:M:208:ILE:HD11	1:M:243:PRO:HD2	1.34	1.09
1:O:180:LEU:HD21	1:O:261:LEU:HD23	1.34	1.09
1:U:34:ILE:HB	1:U:54:VAL:HG11	1.30	1.09
1:U:208:ILE:HD11	1:U:243:PRO:HD2	1.34	1.09
1:C:180:LEU:HD21	1:C:261:LEU:HD23	1.34	1.09
1:C:357:ILE:HG12	1:C:370:VAL:HG23	1.13	1.09
1:E:361:GLU:HB3	1:E:369:ILE:HD13	1.19	1.09
1:P:180:LEU:HD21	1:P:261:LEU:HD23	1.34	1.09
1:S:208:ILE:HD11	1:S:243:PRO:HD2	1.34	1.09
1:A:43:VAL:HG13	1:A:44:MET:H	0.92	1.09
1:A:180:LEU:HD21	1:A:261:LEU:HD23	1.34	1.09
1:G:43:VAL:HG13	1:G:44:MET:N	1.54	1.09
1:C:43:VAL:HG13	1:C:44:MET:H	0.92	1.08
1:E:43:VAL:HG13	1:E:44:MET:N	1.54	1.08
1:H:361:GLU:HB3	1:H:369:ILE:HD13	1.19	1.08
1:I:208:ILE:HD11	1:I:243:PRO:HD2	1.34	1.08
1:L:180:LEU:HD21	1:L:261:LEU:HD23	1.34	1.08
1:S:361:GLU:HB3	1:S:369:ILE:HD13	1.19	1.08
1:U:43:VAL:HG13	1:U:44:MET:H	0.92	1.08
1:W:180:LEU:HD21	1:W:261:LEU:HD23	1.34	1.08
1:I:180:LEU:HD21	1:I:261:LEU:HD23	1.34	1.08
1:J:180:LEU:HD21	1:J:261:LEU:HD23	1.34	1.08
1:N:208:ILE:HD11	1:N:243:PRO:HD2	1.34	1.08
1:R:43:VAL:HG13	1:R:44:MET:N	1.54	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:43:VAL:HG13	1:T:44:MET:H	0.92	1.08
1:T:208:ILE:HD11	1:T:243:PRO:HD2	1.34	1.08
1:W:43:VAL:HG13	1:W:44:MET:H	0.92	1.08
1:B:43:VAL:HG13	1:B:44:MET:N	1.54	1.08
1:B:180:LEU:HD21	1:B:261:LEU:HD23	1.34	1.08
1:C:208:ILE:HD11	1:C:243:PRO:HD2	1.34	1.08
1:E:208:ILE:HD11	1:E:243:PRO:HD2	1.34	1.08
1:H:180:LEU:HD21	1:H:261:LEU:HD23	1.34	1.08
1:H:208:ILE:HD11	1:H:243:PRO:HD2	1.34	1.08
1:J:43:VAL:HG13	1:J:44:MET:H	0.92	1.08
1:P:290:ARG:HD2	1:R:244:ASP:HB2	1.21	1.08
1:I:361:GLU:HB3	1:I:369:ILE:HD13	1.19	1.08
1:N:180:LEU:HD21	1:N:261:LEU:HD23	1.34	1.08
1:O:35:VAL:HG12	1:O:68:LYS:HB2	1.36	1.08
1:H:35:VAL:HG12	1:H:68:LYS:HB2	1.36	1.08
1:R:43:VAL:HG13	1:R:44:MET:H	0.92	1.08
1:S:35:VAL:HG12	1:S:68:LYS:HB2	1.36	1.08
1:U:180:LEU:HD21	1:U:261:LEU:HD23	1.34	1.08
1:D:35:VAL:HG12	1:D:68:LYS:HB2	1.36	1.07
1:N:43:VAL:HG13	1:N:44:MET:H	0.92	1.07
1:Q:34:ILE:HB	1:Q:54:VAL:HG11	1.30	1.07
1:D:43:VAL:HG13	1:D:44:MET:H	0.92	1.07
1:F:34:ILE:HB	1:F:54:VAL:HG11	1.30	1.07
1:Q:43:VAL:HG13	1:Q:44:MET:N	1.54	1.07
1:T:290:ARG:HD2	1:V:244:ASP:HB2	1.21	1.07
1:T:361:GLU:HB3	1:T:369:ILE:HD13	1.20	1.07
1:K:43:VAL:HG13	1:K:44:MET:H	0.92	1.07
1:R:290:ARG:HD2	1:T:244:ASP:HB2	1.21	1.07
1:S:34:ILE:HB	1:S:54:VAL:HG11	1.30	1.07
1:V:43:VAL:HG13	1:V:44:MET:H	0.92	1.07
1:B:43:VAL:HG13	1:B:44:MET:H	0.92	1.07
1:I:35:VAL:HG12	1:I:68:LYS:HB2	1.36	1.07
1:K:35:VAL:HG12	1:K:68:LYS:HB2	1.36	1.07
1:O:34:ILE:HB	1:O:54:VAL:HG11	1.30	1.07
1:S:43:VAL:HG13	1:S:44:MET:H	0.92	1.07
1:I:43:VAL:HG13	1:I:44:MET:H	0.92	1.07
1:V:35:VAL:HG12	1:V:68:LYS:HB2	1.36	1.07
1:K:34:ILE:HB	1:K:54:VAL:HG11	1.30	1.06
1:A:208:ILE:HD11	1:A:243:PRO:HD2	1.34	1.06
1:B:34:ILE:HB	1:B:54:VAL:HG11	1.30	1.06
1:L:208:ILE:HD11	1:L:243:PRO:HD2	1.34	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:43:VAL:HG13	1:M:44:MET:H	0.92	1.06
1:E:43:VAL:HG13	1:E:44:MET:H	0.92	1.06
1:F:43:VAL:HG13	1:F:44:MET:H	0.92	1.06
1:M:34:ILE:HB	1:M:54:VAL:HG11	1.30	1.06
1:T:35:VAL:HG12	1:T:68:LYS:HB2	1.36	1.06
1:U:35:VAL:HG12	1:U:68:LYS:HB2	1.36	1.06
1:T:43:VAL:HG13	1:T:44:MET:N	1.54	1.06
1:B:35:VAL:HG12	1:B:68:LYS:HB2	1.36	1.06
1:O:43:VAL:HG13	1:O:44:MET:N	1.54	1.06
1:J:35:VAL:HG12	1:J:68:LYS:HB2	1.36	1.05
1:N:35:VAL:HG12	1:N:68:LYS:HB2	1.36	1.05
1:G:43:VAL:HG13	1:G:44:MET:H	0.92	1.05
1:H:43:VAL:HG13	1:H:44:MET:H	0.92	1.05
1:K:37:ARG:HG3	1:K:38:PRO:HD2	1.37	1.05
1:P:34:ILE:HB	1:P:54:VAL:CG1	1.87	1.05
1:V:208:ILE:HD11	1:V:243:PRO:HD2	1.34	1.05
1:W:208:ILE:HD11	1:W:243:PRO:HD2	1.34	1.05
1:D:34:ILE:HB	1:D:54:VAL:HG11	1.30	1.05
1:E:35:VAL:HG12	1:E:68:LYS:HB2	1.36	1.05
1:N:34:ILE:HB	1:N:54:VAL:CG1	1.87	1.05
1:R:34:ILE:HB	1:R:54:VAL:CG1	1.87	1.05
1:C:35:VAL:HG12	1:C:68:LYS:HB2	1.36	1.05
1:I:37:ARG:HG3	1:I:38:PRO:HD2	1.37	1.05
1:K:208:ILE:HD11	1:K:243:PRO:HD2	1.34	1.05
1:L:34:ILE:HB	1:L:54:VAL:CG1	1.87	1.05
1:L:37:ARG:HG3	1:L:38:PRO:HD2	1.37	1.05
1:O:43:VAL:HG13	1:O:44:MET:H	0.92	1.05
1:Q:208:ILE:HD11	1:Q:243:PRO:HD2	1.34	1.05
1:F:208:ILE:HD11	1:F:243:PRO:HD2	1.34	1.05
1:G:208:ILE:HD11	1:G:243:PRO:HD2	1.34	1.05
1:M:35:VAL:HG12	1:M:68:LYS:HB2	1.36	1.05
1:M:37:ARG:HG3	1:M:38:PRO:HD2	1.37	1.05
1:P:43:VAL:HG13	1:P:44:MET:H	0.92	1.05
1:T:34:ILE:HB	1:T:54:VAL:CG1	1.87	1.05
1:U:34:ILE:HB	1:U:54:VAL:CG1	1.87	1.05
1:W:35:VAL:HG12	1:W:68:LYS:HB2	1.36	1.05
1:J:34:ILE:HB	1:J:54:VAL:CG1	1.87	1.04
1:J:37:ARG:HG3	1:J:38:PRO:HD2	1.37	1.04
1:S:34:ILE:HB	1:S:54:VAL:CG1	1.87	1.04
1:V:43:VAL:HG13	1:V:44:MET:N	1.54	1.04
1:W:34:ILE:HB	1:W:54:VAL:CG1	1.87	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:34:ILE:HB	1:G:54:VAL:CG1	1.87	1.04
1:M:34:ILE:HG21	1:M:67:LEU:HD22	1.40	1.04
1:N:37:ARG:HG3	1:N:38:PRO:HD2	1.37	1.04
1:P:34:ILE:HG21	1:P:67:LEU:HD22	1.40	1.04
1:U:37:ARG:HG3	1:U:38:PRO:HD2	1.37	1.04
1:V:34:ILE:HG21	1:V:67:LEU:HD22	1.40	1.04
1:A:34:ILE:HB	1:A:54:VAL:CG1	1.87	1.04
1:C:34:ILE:HG21	1:C:67:LEU:HD22	1.40	1.04
1:G:34:ILE:HG21	1:G:67:LEU:HD22	1.40	1.04
1:G:37:ARG:HG3	1:G:38:PRO:HD2	1.37	1.04
1:H:37:ARG:HG3	1:H:38:PRO:HD2	1.37	1.04
1:I:34:ILE:HB	1:I:54:VAL:CG1	1.87	1.04
1:I:34:ILE:HG21	1:I:67:LEU:HD22	1.40	1.04
1:P:35:VAL:HG12	1:P:68:LYS:HB2	1.36	1.04
1:Q:34:ILE:HB	1:Q:54:VAL:CG1	1.87	1.04
1:R:34:ILE:HG21	1:R:67:LEU:HD22	1.40	1.04
1:U:45:VAL:O	1:U:45:VAL:HG22	1.57	1.04
1:W:37:ARG:HG3	1:W:38:PRO:HD2	1.37	1.04
1:A:45:VAL:HG22	1:A:45:VAL:O	1.57	1.04
1:E:34:ILE:HB	1:E:54:VAL:CG1	1.87	1.04
1:F:37:ARG:HG3	1:F:38:PRO:HD2	1.37	1.04
1:J:45:VAL:O	1:J:45:VAL:HG22	1.57	1.04
1:K:34:ILE:HB	1:K:54:VAL:CG1	1.87	1.04
1:L:35:VAL:HG12	1:L:68:LYS:HB2	1.36	1.04
1:A:34:ILE:HG21	1:A:67:LEU:HD22	1.40	1.04
1:A:37:ARG:HG3	1:A:38:PRO:HD2	1.37	1.04
1:H:34:ILE:HB	1:H:54:VAL:CG1	1.87	1.04
1:M:34:ILE:HB	1:M:54:VAL:CG1	1.87	1.04
1:O:34:ILE:HB	1:O:54:VAL:CG1	1.87	1.04
1:O:34:ILE:HG21	1:O:67:LEU:HD22	1.40	1.04
1:R:208:ILE:HD11	1:R:243:PRO:HD2	1.34	1.04
1:S:37:ARG:HG3	1:S:38:PRO:HD2	1.37	1.04
1:V:34:ILE:HB	1:V:54:VAL:CG1	1.87	1.04
1:K:34:ILE:HG21	1:K:67:LEU:HD22	1.40	1.03
1:N:45:VAL:HG22	1:N:45:VAL:O	1.57	1.03
1:O:37:ARG:HG3	1:O:38:PRO:HD2	1.37	1.03
1:Q:43:VAL:HG13	1:Q:44:MET:H	0.92	1.03
1:Q:45:VAL:HG22	1:Q:45:VAL:O	1.57	1.03
1:T:34:ILE:HG21	1:T:67:LEU:HD22	1.40	1.03
1:B:34:ILE:HG21	1:B:67:LEU:HD22	1.40	1.03
1:C:34:ILE:HB	1:C:54:VAL:CG1	1.87	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:35:VAL:HG12	1:F:68:LYS:HB2	1.36	1.03
1:H:45:VAL:O	1:H:45:VAL:HG22	1.57	1.03
1:Q:35:VAL:HG12	1:Q:68:LYS:HB2	1.36	1.03
1:E:34:ILE:HG21	1:E:67:LEU:HD22	1.40	1.03
1:N:34:ILE:HG21	1:N:67:LEU:HD22	1.40	1.03
1:D:34:ILE:HG21	1:D:67:LEU:HD22	1.40	1.03
1:F:34:ILE:HB	1:F:54:VAL:CG1	1.87	1.03
1:D:45:VAL:HG22	1:D:45:VAL:O	1.57	1.03
1:E:37:ARG:HG3	1:E:38:PRO:HD2	1.37	1.03
1:F:45:VAL:HG22	1:F:45:VAL:O	1.57	1.03
1:W:45:VAL:O	1:W:45:VAL:HG22	1.57	1.03
1:B:34:ILE:HB	1:B:54:VAL:CG1	1.87	1.02
1:F:34:ILE:HG21	1:F:67:LEU:HD22	1.40	1.02
1:A:35:VAL:HG12	1:A:68:LYS:HB2	1.36	1.02
1:D:34:ILE:HB	1:D:54:VAL:CG1	1.87	1.02
1:D:37:ARG:HG3	1:D:38:PRO:HD2	1.37	1.02
1:G:35:VAL:HG12	1:G:68:LYS:HB2	1.36	1.02
1:H:34:ILE:HG21	1:H:67:LEU:HD22	1.40	1.02
1:J:34:ILE:HG21	1:J:67:LEU:HD22	1.40	1.02
1:P:37:ARG:HG3	1:P:38:PRO:HD2	1.37	1.02
1:S:34:ILE:HG21	1:S:67:LEU:HD22	1.40	1.02
1:W:34:ILE:HG21	1:W:67:LEU:HD22	1.40	1.02
1:B:45:VAL:O	1:B:45:VAL:HG22	1.57	1.02
1:L:45:VAL:HG22	1:L:45:VAL:O	1.57	1.02
1:Q:34:ILE:HG21	1:Q:67:LEU:HD22	1.40	1.02
1:U:34:ILE:HG21	1:U:67:LEU:HD22	1.40	1.02
1:L:34:ILE:HG21	1:L:67:LEU:HD22	1.40	1.02
1:Q:37:ARG:HG3	1:Q:38:PRO:HD2	1.37	1.02
1:P:45:VAL:O	1:P:45:VAL:HG22	1.57	1.01
1:R:35:VAL:HG12	1:R:68:LYS:HB2	1.36	1.01
1:C:37:ARG:HG3	1:C:38:PRO:HD2	1.37	1.01
1:S:45:VAL:O	1:S:45:VAL:HG22	1.57	1.01
1:T:37:ARG:HG3	1:T:38:PRO:HD2	1.37	1.01
1:T:45:VAL:HG22	1:T:45:VAL:O	1.57	1.01
1:V:37:ARG:HG3	1:V:38:PRO:HD2	1.37	1.01
1:D:43:VAL:CG1	1:D:44:MET:H	1.74	1.01
1:K:45:VAL:O	1:K:45:VAL:HG22	1.57	1.01
1:O:45:VAL:O	1:O:45:VAL:HG22	1.57	1.01
1:R:37:ARG:HG3	1:R:38:PRO:HD2	1.37	1.01
1:B:43:VAL:CG1	1:B:44:MET:H	1.74	1.00
1:D:208:ILE:HD11	1:D:243:PRO:CD	1.92	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:45:VAL:O	1:E:45:VAL:HG22	1.57	1.00
1:F:43:VAL:CG1	1:F:44:MET:H	1.74	1.00
1:I:8:LEU:HD12	1:I:90:PHE:HE1	1.26	1.00
1:I:43:VAL:CG1	1:I:44:MET:H	1.74	1.00
1:A:208:ILE:HD11	1:A:243:PRO:CD	1.92	1.00
1:B:208:ILE:HD11	1:B:243:PRO:CD	1.92	1.00
1:F:208:ILE:HD11	1:F:243:PRO:CD	1.92	1.00
1:G:45:VAL:O	1:G:45:VAL:HG22	1.57	1.00
1:M:208:ILE:HD11	1:M:243:PRO:CD	1.92	1.00
1:S:8:LEU:HD12	1:S:90:PHE:HE1	1.26	1.00
1:C:208:ILE:HD11	1:C:243:PRO:CD	1.92	1.00
1:H:43:VAL:CG1	1:H:44:MET:H	1.74	1.00
1:K:208:ILE:HD11	1:K:243:PRO:CD	1.92	1.00
1:O:8:LEU:HD12	1:O:90:PHE:HE1	1.27	1.00
1:R:43:VAL:CG1	1:R:44:MET:H	1.74	1.00
1:T:208:ILE:HD11	1:T:243:PRO:CD	1.92	1.00
1:H:208:ILE:HD11	1:H:243:PRO:CD	1.92	1.00
1:O:208:ILE:HD11	1:O:243:PRO:CD	1.92	1.00
1:R:208:ILE:HD11	1:R:243:PRO:CD	1.92	1.00
1:B:37:ARG:HG3	1:B:38:PRO:HD2	1.37	1.00
1:D:8:LEU:HD12	1:D:90:PHE:HE1	1.27	1.00
1:E:8:LEU:HD12	1:E:90:PHE:HE1	1.27	1.00
1:T:8:LEU:HD12	1:T:90:PHE:HE1	1.27	1.00
1:V:208:ILE:HD11	1:V:243:PRO:CD	1.92	1.00
1:A:43:VAL:CG1	1:A:44:MET:H	1.74	1.00
1:H:8:LEU:HD12	1:H:90:PHE:HE1	1.27	1.00
1:C:45:VAL:O	1:C:45:VAL:HG22	1.57	1.00
1:M:45:VAL:O	1:M:45:VAL:HG22	1.57	0.99
1:W:208:ILE:HD11	1:W:243:PRO:CD	1.92	0.99
1:B:8:LEU:HD12	1:B:90:PHE:HE1	1.27	0.99
1:G:43:VAL:CG1	1:G:44:MET:H	1.74	0.99
1:J:208:ILE:HD11	1:J:243:PRO:CD	1.92	0.99
1:P:8:LEU:HD12	1:P:90:PHE:HE1	1.27	0.99
1:I:208:ILE:HD11	1:I:243:PRO:CD	1.92	0.99
1:R:45:VAL:O	1:R:45:VAL:HG22	1.57	0.99
1:V:45:VAL:HG22	1:V:45:VAL:O	1.57	0.99
1:E:208:ILE:HD11	1:E:243:PRO:CD	1.92	0.99
1:I:45:VAL:HG22	1:I:45:VAL:O	1.57	0.99
1:J:43:VAL:CG1	1:J:44:MET:H	1.74	0.99
1:P:208:ILE:HD11	1:P:243:PRO:CD	1.92	0.99
1:Q:208:ILE:HD11	1:Q:243:PRO:CD	1.92	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:43:VAL:CG1	1:P:44:MET:H	1.74	0.99
1:U:208:ILE:HD11	1:U:243:PRO:CD	1.92	0.99
1:L:8:LEU:HD12	1:L:90:PHE:HE1	1.27	0.99
1:L:208:ILE:HD11	1:L:243:PRO:CD	1.92	0.99
1:M:8:LEU:HD12	1:M:90:PHE:HE1	1.27	0.99
1:V:8:LEU:HD12	1:V:90:PHE:HE1	1.27	0.99
1:W:8:LEU:HD12	1:W:90:PHE:HE1	1.27	0.99
1:W:43:VAL:CG1	1:W:44:MET:H	1.74	0.99
1:G:208:ILE:HD11	1:G:243:PRO:CD	1.92	0.98
1:N:208:ILE:HD11	1:N:243:PRO:CD	1.92	0.98
1:S:208:ILE:HD11	1:S:243:PRO:CD	1.92	0.98
1:A:8:LEU:HD12	1:A:90:PHE:HE1	1.27	0.98
1:U:43:VAL:CG1	1:U:44:MET:H	1.74	0.98
1:K:8:LEU:HD12	1:K:90:PHE:HE1	1.27	0.98
1:L:43:VAL:CG1	1:L:44:MET:H	1.74	0.98
1:N:43:VAL:CG1	1:N:44:MET:H	1.74	0.98
1:E:43:VAL:CG1	1:E:44:MET:H	1.74	0.98
1:F:8:LEU:HD12	1:F:90:PHE:HE1	1.27	0.98
1:R:8:LEU:HD12	1:R:90:PHE:HE1	1.27	0.97
1:S:43:VAL:CG1	1:S:44:MET:H	1.74	0.97
1:C:8:LEU:HD12	1:C:90:PHE:HE1	1.27	0.97
1:N:8:LEU:HD12	1:N:90:PHE:HE1	1.27	0.97
1:U:8:LEU:HD12	1:U:90:PHE:HE1	1.27	0.97
1:Q:8:LEU:HD12	1:Q:90:PHE:HE1	1.27	0.97
1:G:8:LEU:HD12	1:G:90:PHE:HE1	1.27	0.96
1:Q:43:VAL:CG1	1:Q:44:MET:H	1.74	0.96
1:C:43:VAL:CG1	1:C:44:MET:H	1.74	0.96
1:H:300:SER:HA	1:H:335:ARG:CG	1.96	0.96
1:W:300:SER:HA	1:W:335:ARG:CG	1.96	0.96
1:A:300:SER:HA	1:A:335:ARG:CG	1.96	0.96
1:L:300:SER:HA	1:L:335:ARG:CG	1.96	0.96
1:N:300:SER:HA	1:N:335:ARG:CG	1.96	0.96
1:S:300:SER:HA	1:S:335:ARG:CG	1.96	0.96
1:J:8:LEU:HD12	1:J:90:PHE:HE1	1.27	0.95
1:R:300:SER:HA	1:R:335:ARG:CG	1.96	0.95
1:P:300:SER:HA	1:P:335:ARG:CG	1.96	0.95
1:C:300:SER:HA	1:C:335:ARG:CG	1.96	0.95
1:J:300:SER:HA	1:J:335:ARG:CG	1.96	0.95
1:I:300:SER:HA	1:I:335:ARG:CG	1.96	0.95
1:K:300:SER:HA	1:K:335:ARG:CG	1.96	0.95
1:E:300:SER:HA	1:E:335:ARG:CG	1.96	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:300:SER:HA	1:G:335:ARG:CG	1.96	0.95
1:B:300:SER:HA	1:B:335:ARG:CG	1.96	0.95
1:O:43:VAL:CG1	1:O:44:MET:H	1.74	0.95
1:U:300:SER:HA	1:U:335:ARG:CG	1.96	0.95
1:V:43:VAL:CG1	1:V:44:MET:H	1.74	0.95
1:C:39:ARG:HE	1:C:66:THR:HB	1.32	0.94
1:T:300:SER:HA	1:T:335:ARG:CG	1.96	0.94
1:D:300:SER:HA	1:D:335:ARG:CG	1.96	0.94
1:E:39:ARG:HE	1:E:66:THR:HB	1.32	0.94
1:Q:300:SER:HA	1:Q:335:ARG:CG	1.96	0.94
1:V:39:ARG:HE	1:V:66:THR:HB	1.32	0.94
1:O:300:SER:HA	1:O:335:ARG:CG	1.96	0.94
1:F:43:VAL:CG1	1:F:44:MET:N	2.30	0.94
1:L:133:TYR:CZ	1:L:375:PHE:HB2	2.03	0.94
1:N:133:TYR:CZ	1:N:375:PHE:HB2	2.03	0.94
1:M:300:SER:HA	1:M:335:ARG:CG	1.96	0.94
1:V:300:SER:HA	1:V:335:ARG:CG	1.96	0.94
1:A:39:ARG:HE	1:A:66:THR:HB	1.32	0.94
1:C:133:TYR:CZ	1:C:375:PHE:HB2	2.03	0.94
1:F:300:SER:HA	1:F:335:ARG:CG	1.96	0.94
1:J:133:TYR:CZ	1:J:375:PHE:HB2	2.03	0.94
1:A:133:TYR:CZ	1:A:375:PHE:HB2	2.03	0.94
1:L:43:VAL:CG1	1:L:44:MET:N	2.30	0.94
1:O:133:TYR:CZ	1:O:375:PHE:HB2	2.03	0.94
1:P:133:TYR:CZ	1:P:375:PHE:HB2	2.03	0.93
1:T:39:ARG:HE	1:T:66:THR:HB	1.32	0.93
1:W:133:TYR:CZ	1:W:375:PHE:HB2	2.03	0.93
1:E:133:TYR:CZ	1:E:375:PHE:HB2	2.03	0.93
1:M:133:TYR:CZ	1:M:375:PHE:HB2	2.03	0.93
1:U:43:VAL:CG1	1:U:44:MET:N	2.30	0.93
1:H:133:TYR:CZ	1:H:375:PHE:HB2	2.03	0.93
1:G:39:ARG:HE	1:G:66:THR:HB	1.32	0.93
1:L:39:ARG:HE	1:L:66:THR:HB	1.32	0.93
1:Q:133:TYR:CZ	1:Q:375:PHE:HB2	2.03	0.93
1:N:39:ARG:HE	1:N:66:THR:HB	1.32	0.93
1:V:133:TYR:CZ	1:V:375:PHE:HB2	2.03	0.93
1:M:43:VAL:CG1	1:M:44:MET:H	1.74	0.93
1:N:300:SER:HA	1:N:335:ARG:HG3	1.51	0.93
1:P:300:SER:HA	1:P:335:ARG:HG3	1.51	0.93
1:T:133:TYR:CZ	1:T:375:PHE:HB2	2.03	0.93
1:R:133:TYR:CZ	1:R:375:PHE:HB2	2.03	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:133:TYR:CZ	1:U:375:PHE:HB2	2.03	0.93
1:A:43:VAL:CG1	1:A:44:MET:N	2.30	0.93
1:G:133:TYR:CZ	1:G:375:PHE:HB2	2.02	0.93
1:L:300:SER:HA	1:L:335:ARG:HG3	1.51	0.93
1:M:34:ILE:CB	1:M:54:VAL:HG11	1.99	0.93
1:T:43:VAL:CG1	1:T:44:MET:H	1.74	0.93
1:B:133:TYR:CZ	1:B:375:PHE:HB2	2.03	0.92
1:K:133:TYR:CZ	1:K:375:PHE:HB2	2.03	0.92
1:R:300:SER:HA	1:R:335:ARG:HG3	1.51	0.92
1:S:133:TYR:CZ	1:S:375:PHE:HB2	2.03	0.92
1:K:34:ILE:CB	1:K:54:VAL:HG11	1.99	0.92
1:O:34:ILE:CB	1:O:54:VAL:HG11	1.99	0.92
1:O:357:ILE:CG1	1:O:370:VAL:HG23	2.00	0.92
1:S:39:ARG:HE	1:S:66:THR:HB	1.32	0.92
1:W:300:SER:HA	1:W:335:ARG:HG3	1.51	0.92
1:F:34:ILE:CB	1:F:54:VAL:HG11	1.99	0.92
1:J:39:ARG:HE	1:J:66:THR:HB	1.32	0.92
1:D:34:ILE:CB	1:D:54:VAL:HG11	1.99	0.92
1:F:133:TYR:CZ	1:F:375:PHE:HB2	2.03	0.92
1:M:39:ARG:HE	1:M:66:THR:HB	1.32	0.92
1:Q:39:ARG:HE	1:Q:66:THR:HB	1.32	0.92
1:U:39:ARG:HE	1:U:66:THR:HB	1.32	0.92
1:D:43:VAL:CG1	1:D:44:MET:N	2.30	0.92
1:D:357:ILE:CG1	1:D:370:VAL:HG23	2.00	0.92
1:J:300:SER:HA	1:J:335:ARG:HG3	1.51	0.92
1:P:39:ARG:HE	1:P:66:THR:HB	1.32	0.92
1:P:43:VAL:CG1	1:P:44:MET:N	2.30	0.92
1:C:300:SER:HA	1:C:335:ARG:HG3	1.51	0.92
1:E:300:SER:HA	1:E:335:ARG:HG3	1.51	0.92
1:I:133:TYR:CZ	1:I:375:PHE:HB2	2.03	0.92
1:K:39:ARG:HE	1:K:66:THR:HB	1.32	0.92
1:O:39:ARG:HE	1:O:66:THR:HB	1.32	0.92
1:Q:34:ILE:CB	1:Q:54:VAL:HG11	1.99	0.92
1:R:39:ARG:HE	1:R:66:THR:HB	1.32	0.92
1:D:133:TYR:CZ	1:D:375:PHE:HB2	2.03	0.92
1:H:34:ILE:CB	1:H:54:VAL:HG11	1.99	0.92
1:A:300:SER:HA	1:A:335:ARG:HG3	1.51	0.92
1:I:34:ILE:CB	1:I:54:VAL:HG11	1.99	0.92
1:T:34:ILE:CB	1:T:54:VAL:HG11	1.99	0.92
1:T:300:SER:HA	1:T:335:ARG:HG3	1.51	0.92
1:V:34:ILE:CB	1:V:54:VAL:HG11	1.99	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:ILE:CB	1:B:54:VAL:HG11	1.99	0.92
1:B:39:ARG:HE	1:B:66:THR:HB	1.32	0.92
1:U:300:SER:HA	1:U:335:ARG:HG3	1.51	0.92
1:G:300:SER:HA	1:G:335:ARG:HG3	1.51	0.91
1:J:43:VAL:CG1	1:J:44:MET:N	2.30	0.91
1:P:34:ILE:CB	1:P:54:VAL:HG11	1.99	0.91
1:C:357:ILE:CG1	1:C:370:VAL:HG23	2.00	0.91
1:I:39:ARG:HE	1:I:66:THR:HB	1.32	0.91
1:M:357:ILE:CG1	1:M:370:VAL:HG23	2.00	0.91
1:N:34:ILE:CB	1:N:54:VAL:HG11	1.99	0.91
1:B:357:ILE:CG1	1:B:370:VAL:HG23	2.00	0.91
1:D:39:ARG:HE	1:D:66:THR:HB	1.32	0.91
1:H:39:ARG:HE	1:H:66:THR:HB	1.32	0.91
1:R:34:ILE:CB	1:R:54:VAL:HG11	1.99	0.91
1:E:357:ILE:CG1	1:E:370:VAL:HG23	2.00	0.91
1:J:34:ILE:CB	1:J:54:VAL:HG11	1.99	0.91
1:N:357:ILE:CG1	1:N:370:VAL:HG23	2.00	0.91
1:S:34:ILE:CB	1:S:54:VAL:HG11	1.99	0.91
1:S:43:VAL:CG1	1:S:44:MET:N	2.30	0.91
1:W:34:ILE:CB	1:W:54:VAL:HG11	1.99	0.91
1:A:34:ILE:CB	1:A:54:VAL:HG11	1.99	0.91
1:H:300:SER:HA	1:H:335:ARG:HG3	1.51	0.91
1:L:357:ILE:CG1	1:L:370:VAL:HG23	2.00	0.91
1:P:357:ILE:CG1	1:P:370:VAL:HG23	2.00	0.91
1:S:357:ILE:CG1	1:S:370:VAL:HG23	2.00	0.91
1:U:34:ILE:CB	1:U:54:VAL:HG11	1.99	0.91
1:A:357:ILE:CG1	1:A:370:VAL:HG23	2.00	0.91
1:I:300:SER:HA	1:I:335:ARG:HG3	1.51	0.91
1:O:300:SER:HA	1:O:335:ARG:HG3	1.51	0.91
1:C:34:ILE:CB	1:C:54:VAL:HG11	1.99	0.91
1:W:39:ARG:HE	1:W:66:THR:HB	1.32	0.91
1:B:300:SER:HA	1:B:335:ARG:HG3	1.51	0.90
1:G:34:ILE:CB	1:G:54:VAL:HG11	1.99	0.90
1:G:290:ARG:HD2	1:I:244:ASP:CB	2.01	0.90
1:L:34:ILE:CB	1:L:54:VAL:HG11	1.99	0.90
1:P:290:ARG:HD2	1:R:244:ASP:CB	2.01	0.90
1:A:290:ARG:HD2	1:C:244:ASP:CB	2.01	0.90
1:E:290:ARG:HD2	1:G:244:ASP:CB	2.01	0.90
1:M:290:ARG:HD2	1:O:244:ASP:CB	2.01	0.90
1:H:357:ILE:CG1	1:H:370:VAL:HG23	2.00	0.90
1:K:290:ARG:HD2	1:M:244:ASP:CB	2.01	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:300:SER:HA	1:K:335:ARG:HG3	1.51	0.90
1:L:290:ARG:HD2	1:N:244:ASP:CB	2.01	0.90
1:M:300:SER:HA	1:M:335:ARG:HG3	1.51	0.90
1:R:290:ARG:HD2	1:T:244:ASP:CB	2.01	0.90
1:V:300:SER:HA	1:V:335:ARG:HG3	1.51	0.90
1:E:34:ILE:CB	1:E:54:VAL:HG11	1.99	0.90
1:F:39:ARG:HE	1:F:66:THR:HB	1.32	0.90
1:J:290:ARG:HD2	1:L:244:ASP:CB	2.02	0.90
1:S:300:SER:HA	1:S:335:ARG:HG3	1.51	0.90
1:G:357:ILE:CG1	1:G:370:VAL:HG23	2.00	0.90
1:Q:290:ARG:HD2	1:S:244:ASP:CB	2.01	0.90
1:Q:300:SER:HA	1:Q:335:ARG:HG3	1.51	0.90
1:T:357:ILE:CG1	1:T:370:VAL:HG23	2.00	0.90
1:B:290:ARG:HD2	1:D:244:ASP:CB	2.01	0.90
1:F:290:ARG:HD2	1:H:244:ASP:CB	2.02	0.90
1:L:104:LEU:HB2	1:L:356:TRP:CH2	2.07	0.90
1:S:73:HIC:HA	1:S:183:ARG:HH12	1.36	0.90
1:W:357:ILE:CG1	1:W:370:VAL:HG23	2.00	0.90
1:J:104:LEU:HB2	1:J:356:TRP:CH2	2.07	0.90
1:J:357:ILE:CG1	1:J:370:VAL:HG23	2.00	0.90
1:N:104:LEU:HB2	1:N:356:TRP:CH2	2.07	0.90
1:Q:73:HIC:HA	1:Q:183:ARG:HH12	1.36	0.90
1:D:300:SER:HA	1:D:335:ARG:HG3	1.51	0.90
1:E:43:VAL:CG1	1:E:44:MET:N	2.30	0.90
1:F:104:LEU:HB2	1:F:356:TRP:CH2	2.07	0.90
1:H:34:ILE:HG21	1:H:67:LEU:CD2	2.02	0.90
1:V:357:ILE:CG1	1:V:370:VAL:HG23	2.00	0.90
1:H:104:LEU:HB2	1:H:356:TRP:CH2	2.07	0.90
1:P:104:LEU:HB2	1:P:356:TRP:CH2	2.07	0.90
1:R:104:LEU:HB2	1:R:356:TRP:CH2	2.07	0.90
1:U:290:ARG:HD2	1:W:244:ASP:CB	2.02	0.90
1:W:34:ILE:HG21	1:W:67:LEU:CD2	2.02	0.90
1:B:34:ILE:HG21	1:B:67:LEU:CD2	2.02	0.90
1:D:104:LEU:HB2	1:D:356:TRP:CH2	2.07	0.90
1:Q:34:ILE:HG21	1:Q:67:LEU:CD2	2.02	0.90
1:R:357:ILE:CG1	1:R:370:VAL:HG23	2.00	0.90
1:N:34:ILE:HG21	1:N:67:LEU:CD2	2.02	0.89
1:O:34:ILE:HG21	1:O:67:LEU:CD2	2.02	0.89
1:U:34:ILE:HG21	1:U:67:LEU:CD2	2.02	0.89
1:B:104:LEU:HB2	1:B:356:TRP:CH2	2.07	0.89
1:F:34:ILE:HG21	1:F:67:LEU:CD2	2.02	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:73:HIC:HA	1:F:183:ARG:HH12	1.36	0.89
1:G:104:LEU:HB2	1:G:356:TRP:CH2	2.07	0.89
1:H:73:HIC:HA	1:H:183:ARG:HH12	1.36	0.89
1:I:104:LEU:HB2	1:I:356:TRP:CH2	2.07	0.89
1:K:43:VAL:CG1	1:K:44:MET:N	2.30	0.89
1:K:104:LEU:HB2	1:K:356:TRP:CH2	2.07	0.89
1:N:290:ARG:HD2	1:P:244:ASP:CB	2.01	0.89
1:I:290:ARG:HD2	1:K:244:ASP:CB	2.01	0.89
1:T:104:LEU:HB2	1:T:356:TRP:CH2	2.07	0.89
1:U:357:ILE:CG1	1:U:370:VAL:HG23	2.00	0.89
1:E:73:HIC:HA	1:E:183:ARG:HH12	1.36	0.89
1:E:104:LEU:HB2	1:E:356:TRP:CH2	2.07	0.89
1:G:236:LEU:HD13	1:G:251:GLY:CA	2.02	0.89
1:H:8:LEU:HD12	1:H:90:PHE:CE1	2.08	0.89
1:J:73:HIC:HA	1:J:183:ARG:HH12	1.36	0.89
1:M:104:LEU:HB2	1:M:356:TRP:CH2	2.07	0.89
1:U:73:HIC:HA	1:U:183:ARG:HH12	1.36	0.89
1:A:236:LEU:HD13	1:A:251:GLY:CA	2.02	0.89
1:C:73:HIC:HA	1:C:183:ARG:HH12	1.36	0.89
1:C:290:ARG:HD2	1:E:244:ASP:CB	2.01	0.89
1:I:236:LEU:HD13	1:I:251:GLY:CA	2.02	0.89
1:L:34:ILE:HG21	1:L:67:LEU:CD2	2.02	0.89
1:O:236:LEU:HD13	1:O:251:GLY:CA	2.02	0.89
1:S:8:LEU:HD12	1:S:90:PHE:CE1	2.08	0.89
1:S:290:ARG:HD2	1:U:244:ASP:CB	2.01	0.89
1:W:236:LEU:HD13	1:W:251:GLY:CA	2.02	0.89
1:D:290:ARG:HD2	1:F:244:ASP:CB	2.01	0.89
1:F:300:SER:HA	1:F:335:ARG:HG3	1.51	0.89
1:O:104:LEU:HB2	1:O:356:TRP:CH2	2.07	0.89
1:Q:236:LEU:HD13	1:Q:251:GLY:CA	2.02	0.89
1:S:104:LEU:HB2	1:S:356:TRP:CH2	2.07	0.89
1:U:104:LEU:HB2	1:U:356:TRP:CH2	2.07	0.89
1:A:8:LEU:HD12	1:A:90:PHE:CE1	2.08	0.89
1:A:34:ILE:HG21	1:A:67:LEU:CD2	2.02	0.89
1:C:104:LEU:HB2	1:C:356:TRP:CH2	2.07	0.89
1:E:236:LEU:HD13	1:E:251:GLY:CA	2.02	0.89
1:H:290:ARG:HD2	1:J:244:ASP:CB	2.01	0.89
1:L:8:LEU:HD12	1:L:90:PHE:CE1	2.08	0.89
1:O:73:HIC:HA	1:O:183:ARG:HH12	1.36	0.89
1:R:8:LEU:HD12	1:R:90:PHE:CE1	2.08	0.89
1:T:290:ARG:HD2	1:V:244:ASP:CB	2.01	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:236:LEU:HD13	1:U:251:GLY:CA	2.02	0.89
1:B:43:VAL:CG1	1:B:44:MET:N	2.30	0.89
1:M:236:LEU:HD13	1:M:251:GLY:CA	2.02	0.89
1:O:290:ARG:HD2	1:Q:244:ASP:CB	2.01	0.89
1:P:34:ILE:HG21	1:P:67:LEU:CD2	2.02	0.89
1:Q:104:LEU:HB2	1:Q:356:TRP:CH2	2.07	0.89
1:S:236:LEU:HD13	1:S:251:GLY:CA	2.03	0.89
1:V:104:LEU:HB2	1:V:356:TRP:CH2	2.07	0.89
1:A:104:LEU:HB2	1:A:356:TRP:CH2	2.07	0.89
1:D:8:LEU:HD12	1:D:90:PHE:CE1	2.08	0.89
1:G:34:ILE:HG21	1:G:67:LEU:CD2	2.02	0.89
1:I:34:ILE:HG21	1:I:67:LEU:CD2	2.02	0.89
1:I:357:ILE:CG1	1:I:370:VAL:HG23	2.00	0.89
1:P:236:LEU:HD13	1:P:251:GLY:CA	2.02	0.89
1:B:8:LEU:HD12	1:B:90:PHE:CE1	2.08	0.89
1:D:34:ILE:HG21	1:D:67:LEU:CD2	2.02	0.89
1:G:8:LEU:HD12	1:G:90:PHE:CE1	2.08	0.89
1:G:73:HIC:HA	1:G:183:ARG:HH12	1.36	0.89
1:J:34:ILE:HG21	1:J:67:LEU:CD2	2.02	0.89
1:N:8:LEU:HD12	1:N:90:PHE:CE1	2.08	0.89
1:T:43:VAL:CG1	1:T:44:MET:N	2.30	0.89
1:V:34:ILE:HG21	1:V:67:LEU:CD2	2.02	0.89
1:W:104:LEU:HB2	1:W:356:TRP:CH2	2.07	0.89
1:K:236:LEU:HD13	1:K:251:GLY:CA	2.02	0.88
1:K:357:ILE:CG1	1:K:370:VAL:HG23	2.00	0.88
1:N:236:LEU:HD13	1:N:251:GLY:CA	2.02	0.88
1:W:8:LEU:HD12	1:W:90:PHE:CE1	2.08	0.88
1:C:8:LEU:HD12	1:C:90:PHE:CE1	2.08	0.88
1:L:73:HIC:HA	1:L:183:ARG:HH12	1.36	0.88
1:M:8:LEU:HD12	1:M:90:PHE:CE1	2.08	0.88
1:Q:357:ILE:CG1	1:Q:370:VAL:HG23	2.00	0.88
1:R:236:LEU:HD13	1:R:251:GLY:CA	2.02	0.88
1:U:8:LEU:HD12	1:U:90:PHE:CE1	2.08	0.88
1:C:236:LEU:HD13	1:C:251:GLY:CA	2.02	0.88
1:E:8:LEU:HD12	1:E:90:PHE:CE1	2.08	0.88
1:H:236:LEU:HD13	1:H:251:GLY:CA	2.02	0.88
1:J:236:LEU:HD13	1:J:251:GLY:CA	2.02	0.88
1:K:34:ILE:HG21	1:K:67:LEU:CD2	2.02	0.88
1:O:8:LEU:HD12	1:O:90:PHE:CE1	2.08	0.88
1:P:8:LEU:HD12	1:P:90:PHE:CE1	2.08	0.88
1:S:34:ILE:HG21	1:S:67:LEU:CD2	2.02	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:43:VAL:CG1	1:N:44:MET:N	2.30	0.88
1:V:236:LEU:HD13	1:V:251:GLY:CA	2.02	0.88
1:E:34:ILE:HG21	1:E:67:LEU:CD2	2.02	0.88
1:L:236:LEU:HD13	1:L:251:GLY:CA	2.02	0.88
1:H:43:VAL:CG1	1:H:44:MET:N	2.30	0.88
1:M:34:ILE:HG21	1:M:67:LEU:CD2	2.02	0.88
1:R:73:HIC:HA	1:R:183:ARG:HH12	1.36	0.88
1:T:73:HIC:HA	1:T:183:ARG:HH12	1.36	0.88
1:V:8:LEU:HD12	1:V:90:PHE:CE1	2.08	0.88
1:V:73:HIC:HA	1:V:183:ARG:HH12	1.36	0.88
1:A:73:HIC:HA	1:A:183:ARG:HH12	1.36	0.88
1:D:73:HIC:HA	1:D:183:ARG:HH12	1.36	0.88
1:F:8:LEU:HD12	1:F:90:PHE:CE1	2.08	0.88
1:F:236:LEU:HD13	1:F:251:GLY:CA	2.02	0.88
1:J:8:LEU:HD12	1:J:90:PHE:CE1	2.08	0.88
1:I:8:LEU:HD12	1:I:90:PHE:CE1	2.08	0.88
1:T:8:LEU:HD12	1:T:90:PHE:CE1	2.08	0.88
1:T:34:ILE:HG21	1:T:67:LEU:CD2	2.02	0.88
1:W:73:HIC:HA	1:W:183:ARG:HH12	1.36	0.88
1:Q:8:LEU:HD12	1:Q:90:PHE:CE1	2.08	0.88
1:B:236:LEU:HD13	1:B:251:GLY:CA	2.02	0.88
1:F:357:ILE:CG1	1:F:370:VAL:HG23	2.00	0.88
1:K:8:LEU:HD12	1:K:90:PHE:CE1	2.08	0.88
1:N:73:HIC:HA	1:N:183:ARG:HH12	1.36	0.88
1:T:236:LEU:HD13	1:T:251:GLY:CA	2.02	0.88
1:B:73:HIC:HA	1:B:183:ARG:HH12	1.36	0.87
1:D:236:LEU:HD13	1:D:251:GLY:CA	2.02	0.87
1:P:73:HIC:HA	1:P:183:ARG:HH12	1.36	0.87
1:M:73:HIC:HA	1:M:183:ARG:HH12	1.36	0.87
1:Q:43:VAL:CG1	1:Q:44:MET:N	2.30	0.87
1:R:34:ILE:HG21	1:R:67:LEU:CD2	2.02	0.87
1:C:34:ILE:HG21	1:C:67:LEU:CD2	2.02	0.87
1:I:73:HIC:HA	1:I:183:ARG:HH12	1.36	0.87
1:W:43:VAL:CG1	1:W:44:MET:N	2.30	0.87
1:J:134:VAL:O	1:J:375:PHE:HB3	1.76	0.86
1:W:134:VAL:O	1:W:375:PHE:HB3	1.76	0.86
1:L:134:VAL:O	1:L:375:PHE:HB3	1.76	0.86
1:A:134:VAL:O	1:A:375:PHE:HB3	1.76	0.86
1:H:134:VAL:O	1:H:375:PHE:HB3	1.76	0.86
1:N:134:VAL:O	1:N:375:PHE:HB3	1.76	0.86
1:U:134:VAL:O	1:U:375:PHE:HB3	1.76	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:361:GLU:CB	1:M:369:ILE:HD13	2.06	0.85
1:P:134:VAL:O	1:P:375:PHE:HB3	1.76	0.85
1:C:43:VAL:CG1	1:C:44:MET:N	2.30	0.85
1:C:134:VAL:O	1:C:375:PHE:HB3	1.76	0.85
1:D:361:GLU:CB	1:D:369:ILE:HD13	2.06	0.85
1:F:134:VAL:O	1:F:375:PHE:HB3	1.76	0.85
1:F:361:GLU:CB	1:F:369:ILE:HD13	2.06	0.85
1:V:361:GLU:CB	1:V:369:ILE:HD13	2.06	0.85
1:K:73:HIC:HA	1:K:183:ARG:HH12	1.36	0.85
1:S:134:VAL:O	1:S:375:PHE:HB3	1.76	0.85
1:I:43:VAL:CG1	1:I:44:MET:N	2.30	0.85
1:H:361:GLU:CB	1:H:369:ILE:HD13	2.06	0.85
1:D:134:VAL:O	1:D:375:PHE:HB3	1.76	0.85
1:H:236:LEU:HD13	1:H:251:GLY:HA3	1.58	0.85
1:R:134:VAL:O	1:R:375:PHE:HB3	1.76	0.85
1:U:236:LEU:HD13	1:U:251:GLY:HA3	1.58	0.85
1:J:236:LEU:HD13	1:J:251:GLY:HA3	1.58	0.85
1:K:361:GLU:CB	1:K:369:ILE:HD13	2.06	0.85
1:Q:134:VAL:O	1:Q:375:PHE:HB3	1.76	0.85
1:B:361:GLU:CB	1:B:369:ILE:HD13	2.06	0.85
1:E:134:VAL:O	1:E:375:PHE:HB3	1.76	0.85
1:I:236:LEU:HD13	1:I:251:GLY:HA3	1.58	0.85
1:W:236:LEU:HD13	1:W:251:GLY:HA3	1.58	0.85
1:B:134:VAL:O	1:B:375:PHE:HB3	1.76	0.84
1:E:361:GLU:CB	1:E:369:ILE:HD13	2.06	0.84
1:G:134:VAL:O	1:G:375:PHE:HB3	1.76	0.84
1:O:134:VAL:O	1:O:375:PHE:HB3	1.76	0.84
1:T:134:VAL:O	1:T:375:PHE:HB3	1.76	0.84
1:T:361:GLU:CB	1:T:369:ILE:HD13	2.06	0.84
1:C:361:GLU:CB	1:C:369:ILE:HD13	2.06	0.84
1:J:361:GLU:CB	1:J:369:ILE:HD13	2.06	0.84
1:M:134:VAL:O	1:M:375:PHE:HB3	1.76	0.84
1:A:361:GLU:CB	1:A:369:ILE:HD13	2.06	0.84
1:F:236:LEU:HD13	1:F:251:GLY:HA3	1.58	0.84
1:I:134:VAL:O	1:I:375:PHE:HB3	1.76	0.84
1:M:8:LEU:CD1	1:M:90:PHE:HE1	1.90	0.84
1:T:236:LEU:HD13	1:T:251:GLY:HA3	1.58	0.84
1:V:134:VAL:O	1:V:375:PHE:HB3	1.76	0.84
1:G:236:LEU:HD13	1:G:251:GLY:HA3	1.58	0.84
1:K:43:VAL:CG1	1:K:44:MET:H	1.74	0.84
1:K:134:VAL:O	1:K:375:PHE:HB3	1.76	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:236:LEU:HD13	1:S:251:GLY:HA3	1.58	0.84
1:V:8:LEU:CD1	1:V:90:PHE:HE1	1.90	0.84
1:K:236:LEU:HD13	1:K:251:GLY:HA3	1.58	0.84
1:L:236:LEU:HD13	1:L:251:GLY:HA3	1.58	0.84
1:R:43:VAL:CG1	1:R:44:MET:N	2.30	0.84
1:W:8:LEU:CD1	1:W:90:PHE:HE1	1.90	0.84
1:D:236:LEU:HD13	1:D:251:GLY:HA3	1.58	0.84
1:D:287:ILE:HD11	1:F:208:ILE:HD13	1.60	0.84
1:H:287:ILE:HD11	1:J:208:ILE:HD13	1.60	0.84
1:K:8:LEU:CD1	1:K:90:PHE:HE1	1.90	0.84
1:Q:236:LEU:HD13	1:Q:251:GLY:HA3	1.58	0.84
1:Q:287:ILE:HD11	1:S:208:ILE:HD13	1.60	0.84
1:W:361:GLU:CB	1:W:369:ILE:HD13	2.06	0.84
1:M:43:VAL:CG1	1:M:44:MET:N	2.30	0.84
1:N:236:LEU:HD13	1:N:251:GLY:HA3	1.58	0.84
1:O:8:LEU:CD1	1:O:90:PHE:HE1	1.90	0.84
1:B:236:LEU:HD13	1:B:251:GLY:HA3	1.58	0.84
1:B:287:ILE:HD11	1:D:208:ILE:HD13	1.60	0.84
1:J:287:ILE:HD11	1:L:208:ILE:HD13	1.60	0.84
1:L:361:GLU:CB	1:L:369:ILE:HD13	2.06	0.84
1:N:8:LEU:CD1	1:N:90:PHE:HE1	1.90	0.84
1:N:287:ILE:HD11	1:P:208:ILE:HD13	1.60	0.84
1:P:8:LEU:CD1	1:P:90:PHE:HE1	1.90	0.84
1:R:361:GLU:CB	1:R:369:ILE:HD13	2.06	0.84
1:A:236:LEU:HD13	1:A:251:GLY:HA3	1.58	0.83
1:A:287:ILE:HD11	1:C:208:ILE:HD13	1.60	0.83
1:D:8:LEU:CD1	1:D:90:PHE:HE1	1.90	0.83
1:F:8:LEU:CD1	1:F:90:PHE:HE1	1.90	0.83
1:H:8:LEU:CD1	1:H:90:PHE:HE1	1.90	0.83
1:I:361:GLU:CB	1:I:369:ILE:HD13	2.06	0.83
1:L:287:ILE:HD11	1:N:208:ILE:HD13	1.60	0.83
1:S:287:ILE:HD11	1:U:208:ILE:HD13	1.60	0.83
1:U:287:ILE:HD11	1:W:208:ILE:HD13	1.60	0.83
1:U:361:GLU:CB	1:U:369:ILE:HD13	2.06	0.83
1:E:8:LEU:CD1	1:E:90:PHE:HE1	1.90	0.83
1:F:287:ILE:HD11	1:H:208:ILE:HD13	1.60	0.83
1:R:236:LEU:HD13	1:R:251:GLY:HA3	1.58	0.83
1:T:8:LEU:CD1	1:T:90:PHE:HE1	1.90	0.83
1:B:8:LEU:CD1	1:B:90:PHE:HE1	1.90	0.83
1:M:236:LEU:HD13	1:M:251:GLY:HA3	1.58	0.83
1:O:236:LEU:HD13	1:O:251:GLY:HA3	1.58	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:287:ILE:HD11	1:Q:208:ILE:HD13	1.60	0.83
1:U:8:LEU:CD1	1:U:90:PHE:HE1	1.90	0.83
1:C:8:LEU:CD1	1:C:90:PHE:HE1	1.90	0.83
1:L:8:LEU:CD1	1:L:90:PHE:HE1	1.90	0.83
1:N:361:GLU:CB	1:N:369:ILE:HD13	2.06	0.83
1:P:287:ILE:HD11	1:R:208:ILE:HD13	1.60	0.83
1:R:8:LEU:CD1	1:R:90:PHE:HE1	1.90	0.83
1:A:8:LEU:CD1	1:A:90:PHE:HE1	1.90	0.83
1:G:8:LEU:CD1	1:G:90:PHE:HE1	1.90	0.83
1:P:236:LEU:HD13	1:P:251:GLY:HA3	1.58	0.83
1:M:287:ILE:HD11	1:O:208:ILE:HD13	1.60	0.83
1:E:236:LEU:HD13	1:E:251:GLY:HA3	1.58	0.83
1:I:8:LEU:CD1	1:I:90:PHE:HE1	1.90	0.83
1:J:8:LEU:CD1	1:J:90:PHE:HE1	1.90	0.83
1:P:361:GLU:CB	1:P:369:ILE:HD13	2.06	0.83
1:K:287:ILE:HD11	1:M:208:ILE:HD13	1.60	0.83
1:O:43:VAL:CG1	1:O:44:MET:N	2.30	0.83
1:S:361:GLU:CB	1:S:369:ILE:HD13	2.06	0.83
1:C:236:LEU:HD13	1:C:251:GLY:HA3	1.58	0.83
1:Q:8:LEU:CD1	1:Q:90:PHE:HE1	1.90	0.83
1:C:287:ILE:HD11	1:E:208:ILE:HD13	1.60	0.82
1:I:287:ILE:HD11	1:K:208:ILE:HD13	1.60	0.82
1:Q:35:VAL:N	1:Q:54:VAL:HG21	1.95	0.82
1:R:35:VAL:N	1:R:54:VAL:HG21	1.95	0.82
1:R:287:ILE:HD11	1:T:208:ILE:HD13	1.60	0.82
1:G:287:ILE:HD11	1:I:208:ILE:HD13	1.60	0.82
1:O:35:VAL:N	1:O:54:VAL:HG21	1.95	0.82
1:E:287:ILE:HD11	1:G:208:ILE:HD13	1.60	0.82
1:G:35:VAL:N	1:G:54:VAL:HG21	1.95	0.82
1:G:361:GLU:CB	1:G:369:ILE:HD13	2.06	0.82
1:M:35:VAL:N	1:M:54:VAL:HG21	1.95	0.82
1:S:8:LEU:CD1	1:S:90:PHE:HE1	1.90	0.82
1:S:35:VAL:N	1:S:54:VAL:HG21	1.95	0.82
1:F:35:VAL:N	1:F:54:VAL:HG21	1.95	0.82
1:V:236:LEU:HD13	1:V:251:GLY:HA3	1.58	0.82
1:C:35:VAL:N	1:C:54:VAL:HG21	1.95	0.82
1:T:287:ILE:HD11	1:V:208:ILE:HD13	1.60	0.82
1:A:35:VAL:N	1:A:54:VAL:HG21	1.95	0.82
1:K:35:VAL:N	1:K:54:VAL:HG21	1.95	0.82
1:P:35:VAL:N	1:P:54:VAL:HG21	1.95	0.82
1:G:140:LEU:O	1:G:342:GLY:HA3	1.80	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:VAL:N	1:B:54:VAL:HG21	1.95	0.82
1:I:140:LEU:O	1:I:342:GLY:HA3	1.80	0.82
1:L:35:VAL:N	1:L:54:VAL:HG21	1.95	0.82
1:N:35:VAL:N	1:N:54:VAL:HG21	1.95	0.82
1:T:35:VAL:N	1:T:54:VAL:HG21	1.95	0.82
1:U:35:VAL:N	1:U:54:VAL:HG21	1.95	0.82
1:V:35:VAL:N	1:V:54:VAL:HG21	1.95	0.82
1:W:35:VAL:N	1:W:54:VAL:HG21	1.95	0.82
1:E:169:TYR:CZ	1:G:40:HIS:HB3	2.15	0.81
1:I:35:VAL:N	1:I:54:VAL:HG21	1.95	0.81
1:K:140:LEU:O	1:K:342:GLY:HA3	1.80	0.81
1:P:169:TYR:CZ	1:R:40:HIS:HB3	2.15	0.81
1:D:35:VAL:N	1:D:54:VAL:HG21	1.95	0.81
1:E:35:VAL:N	1:E:54:VAL:HG21	1.95	0.81
1:G:169:TYR:CZ	1:I:40:HIS:HB3	2.15	0.81
1:R:169:TYR:CZ	1:T:40:HIS:HB3	2.16	0.81
1:T:169:TYR:CZ	1:V:40:HIS:HB3	2.16	0.81
1:B:362:TYR:HE1	1:B:367:PRO:HB3	1.46	0.81
1:E:140:LEU:O	1:E:342:GLY:HA3	1.80	0.81
1:H:140:LEU:O	1:H:342:GLY:HA3	1.80	0.81
1:M:140:LEU:O	1:M:342:GLY:HA3	1.80	0.81
1:P:140:LEU:O	1:P:342:GLY:HA3	1.80	0.81
1:Q:361:GLU:CB	1:Q:369:ILE:HD13	2.06	0.81
1:U:140:LEU:O	1:U:342:GLY:HA3	1.80	0.81
1:C:169:TYR:CZ	1:E:40:HIS:HB3	2.15	0.81
1:C:362:TYR:HE1	1:C:367:PRO:HB3	1.46	0.81
1:E:362:TYR:HE1	1:E:367:PRO:HB3	1.46	0.81
1:F:140:LEU:O	1:F:342:GLY:HA3	1.80	0.81
1:H:35:VAL:N	1:H:54:VAL:HG21	1.95	0.81
1:N:140:LEU:O	1:N:342:GLY:HA3	1.80	0.81
1:N:169:TYR:CZ	1:P:40:HIS:HB3	2.16	0.81
1:N:362:TYR:HE1	1:N:367:PRO:HB3	1.46	0.81
1:Q:140:LEU:O	1:Q:342:GLY:HA3	1.80	0.81
1:S:140:LEU:O	1:S:342:GLY:HA3	1.80	0.81
1:W:140:LEU:O	1:W:342:GLY:HA3	1.80	0.81
1:C:140:LEU:O	1:C:342:GLY:HA3	1.80	0.81
1:D:362:TYR:HE1	1:D:367:PRO:HB3	1.46	0.81
1:L:362:TYR:HE1	1:L:367:PRO:HB3	1.46	0.81
1:O:140:LEU:O	1:O:342:GLY:HA3	1.80	0.81
1:O:169:TYR:CZ	1:Q:40:HIS:HB3	2.15	0.81
1:Q:169:TYR:CZ	1:S:40:HIS:HB3	2.16	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:362:TYR:HE1	1:V:367:PRO:HB3	1.46	0.81
1:W:362:TYR:HE1	1:W:367:PRO:HB3	1.46	0.81
1:F:362:TYR:HE1	1:F:367:PRO:HB3	1.46	0.81
1:H:362:TYR:HE1	1:H:367:PRO:HB3	1.46	0.81
1:J:140:LEU:O	1:J:342:GLY:HA3	1.80	0.81
1:T:143:TYR:O	1:T:143:TYR:HD1	1.64	0.81
1:U:143:TYR:HD1	1:U:143:TYR:O	1.64	0.81
1:C:143:TYR:O	1:C:143:TYR:HD1	1.64	0.81
1:D:140:LEU:O	1:D:342:GLY:HA3	1.80	0.81
1:D:143:TYR:O	1:D:143:TYR:HD1	1.64	0.81
1:I:169:TYR:CZ	1:K:40:HIS:HB3	2.16	0.81
1:M:169:TYR:CZ	1:O:40:HIS:HB3	2.15	0.81
1:S:169:TYR:CZ	1:U:40:HIS:HB3	2.15	0.81
1:L:169:TYR:CZ	1:N:40:HIS:HB3	2.16	0.81
1:U:169:TYR:CZ	1:W:40:HIS:HB3	2.16	0.81
1:A:140:LEU:O	1:A:342:GLY:HA3	1.80	0.81
1:J:35:VAL:N	1:J:54:VAL:HG21	1.95	0.81
1:J:143:TYR:HD1	1:J:143:TYR:O	1.64	0.81
1:K:169:TYR:CZ	1:M:40:HIS:HB3	2.16	0.81
1:Q:143:TYR:O	1:Q:143:TYR:HD1	1.64	0.81
1:A:169:TYR:CZ	1:C:40:HIS:HB3	2.15	0.81
1:F:143:TYR:O	1:F:143:TYR:HD1	1.64	0.81
1:G:362:TYR:HE1	1:G:367:PRO:HB3	1.46	0.81
1:M:362:TYR:HE1	1:M:367:PRO:HB3	1.46	0.81
1:R:143:TYR:HD1	1:R:143:TYR:O	1.64	0.81
1:D:169:TYR:CZ	1:F:40:HIS:HB3	2.15	0.80
1:E:32:PRO:HG2	1:E:55:GLY:O	1.82	0.80
1:J:169:TYR:CZ	1:L:40:HIS:HB3	2.15	0.80
1:N:357:ILE:HG12	1:N:370:VAL:CG2	2.07	0.80
1:P:362:TYR:HE1	1:P:367:PRO:HB3	1.46	0.80
1:B:140:LEU:O	1:B:342:GLY:HA3	1.80	0.80
1:I:143:TYR:O	1:I:143:TYR:HD1	1.64	0.80
1:J:362:TYR:HE1	1:J:367:PRO:HB3	1.46	0.80
1:O:362:TYR:HE1	1:O:367:PRO:HB3	1.46	0.80
1:P:357:ILE:HG12	1:P:370:VAL:CG2	2.07	0.80
1:T:140:LEU:O	1:T:342:GLY:HA3	1.80	0.80
1:U:362:TYR:HE1	1:U:367:PRO:HB3	1.46	0.80
1:A:362:TYR:HE1	1:A:367:PRO:HB3	1.46	0.80
1:B:169:TYR:CZ	1:D:40:HIS:HB3	2.15	0.80
1:F:169:TYR:CZ	1:H:40:HIS:HB3	2.15	0.80
1:H:169:TYR:CZ	1:J:40:HIS:HB3	2.15	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:140:LEU:O	1:L:342:GLY:HA3	1.80	0.80
1:O:143:TYR:O	1:O:143:TYR:HD1	1.64	0.80
1:T:32:PRO:HG2	1:T:55:GLY:O	1.82	0.80
1:P:32:PRO:HG2	1:P:55:GLY:O	1.82	0.80
1:V:140:LEU:O	1:V:342:GLY:HA3	1.80	0.80
1:C:357:ILE:HG12	1:C:370:VAL:CG2	2.07	0.80
1:K:143:TYR:O	1:K:143:TYR:HD1	1.64	0.80
1:E:357:ILE:HG12	1:E:370:VAL:CG2	2.07	0.80
1:G:39:ARG:HE	1:G:66:THR:CB	1.95	0.80
1:N:32:PRO:HG2	1:N:55:GLY:O	1.82	0.80
1:H:58:ALA:HB1	1:H:65:LEU:HD22	1.64	0.80
1:K:32:PRO:HG2	1:K:55:GLY:O	1.82	0.80
1:N:143:TYR:O	1:N:143:TYR:HD1	1.64	0.80
1:P:39:ARG:HE	1:P:66:THR:CB	1.95	0.80
1:P:45:VAL:O	1:P:45:VAL:CG2	2.30	0.80
1:R:39:ARG:HE	1:R:66:THR:CB	1.95	0.80
1:T:362:TYR:HE1	1:T:367:PRO:HB3	1.46	0.80
1:C:45:VAL:O	1:C:45:VAL:CG2	2.30	0.80
1:F:45:VAL:O	1:F:45:VAL:CG2	2.30	0.80
1:G:43:VAL:CG1	1:G:44:MET:N	2.30	0.80
1:J:45:VAL:O	1:J:45:VAL:CG2	2.30	0.80
1:K:362:TYR:HE1	1:K:367:PRO:HB3	1.46	0.80
1:V:32:PRO:HG2	1:V:55:GLY:O	1.82	0.80
1:V:45:VAL:O	1:V:45:VAL:CG2	2.30	0.80
1:W:58:ALA:HB1	1:W:65:LEU:HD22	1.64	0.80
1:A:39:ARG:HE	1:A:66:THR:CB	1.95	0.80
1:A:143:TYR:O	1:A:143:TYR:HD1	1.64	0.80
1:G:45:VAL:O	1:G:45:VAL:CG2	2.30	0.80
1:H:143:TYR:O	1:H:143:TYR:HD1	1.64	0.80
1:L:357:ILE:HG12	1:L:370:VAL:CG2	2.07	0.80
1:R:140:LEU:O	1:R:342:GLY:HA3	1.80	0.80
1:S:45:VAL:O	1:S:45:VAL:CG2	2.30	0.80
1:E:39:ARG:HE	1:E:66:THR:CB	1.95	0.80
1:E:143:TYR:HD1	1:E:143:TYR:O	1.64	0.80
1:I:39:ARG:HE	1:I:66:THR:CB	1.95	0.80
1:N:58:ALA:HB1	1:N:65:LEU:HD22	1.64	0.80
1:W:45:VAL:O	1:W:45:VAL:CG2	2.30	0.80
1:C:32:PRO:HG2	1:C:55:GLY:O	1.82	0.79
1:J:39:ARG:HE	1:J:66:THR:CB	1.95	0.79
1:J:58:ALA:HB1	1:J:65:LEU:HD22	1.64	0.79
1:L:45:VAL:O	1:L:45:VAL:CG2	2.30	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:58:ALA:HB1	1:L:65:LEU:HD22	1.64	0.79
1:Q:32:PRO:HG2	1:Q:55:GLY:O	1.82	0.79
1:S:58:ALA:HB1	1:S:65:LEU:HD22	1.64	0.79
1:W:143:TYR:O	1:W:143:TYR:HD1	1.64	0.79
1:A:357:ILE:HG12	1:A:370:VAL:CG2	2.07	0.79
1:I:45:VAL:O	1:I:45:VAL:CG2	2.30	0.79
1:K:8:LEU:CD1	1:K:90:PHE:CE1	2.66	0.79
1:M:143:TYR:HD1	1:M:143:TYR:O	1.64	0.79
1:R:357:ILE:HG12	1:R:370:VAL:CG2	2.07	0.79
1:S:143:TYR:O	1:S:143:TYR:HD1	1.64	0.79
1:T:45:VAL:O	1:T:45:VAL:CG2	2.30	0.79
1:V:336:LYS:HE2	2:V:401:ADP:H5'2	1.65	0.79
1:A:58:ALA:HB1	1:A:65:LEU:HD22	1.64	0.79
1:F:32:PRO:HG2	1:F:55:GLY:O	1.82	0.79
1:I:8:LEU:CD1	1:I:90:PHE:CE1	2.66	0.79
1:I:32:PRO:HG2	1:I:55:GLY:O	1.82	0.79
1:O:32:PRO:HG2	1:O:55:GLY:O	1.82	0.79
1:S:32:PRO:HG2	1:S:55:GLY:O	1.82	0.79
1:U:58:ALA:HB1	1:U:65:LEU:HD22	1.64	0.79
1:A:32:PRO:HG2	1:A:55:GLY:O	1.82	0.79
1:C:58:ALA:HB1	1:C:65:LEU:HD22	1.64	0.79
1:D:58:ALA:HB1	1:D:65:LEU:HD22	1.64	0.79
1:F:58:ALA:HB1	1:F:65:LEU:HD22	1.64	0.79
1:G:143:TYR:HD1	1:G:143:TYR:O	1.64	0.79
1:H:32:PRO:HG2	1:H:55:GLY:O	1.82	0.79
1:H:39:ARG:HE	1:H:66:THR:CB	1.95	0.79
1:H:54:VAL:HA	1:H:58:ALA:HB2	1.65	0.79
1:I:362:TYR:HE1	1:I:367:PRO:HB3	1.46	0.79
1:L:143:TYR:O	1:L:143:TYR:HD1	1.64	0.79
1:M:32:PRO:HG2	1:M:55:GLY:O	1.82	0.79
1:O:361:GLU:CB	1:O:369:ILE:HD13	2.06	0.79
1:R:45:VAL:O	1:R:45:VAL:CG2	2.30	0.79
1:S:336:LYS:HE2	2:S:401:ADP:H5'2	1.65	0.79
1:S:362:TYR:HE1	1:S:367:PRO:HB3	1.46	0.79
1:B:8:LEU:CD1	1:B:90:PHE:CE1	2.66	0.79
1:B:143:TYR:HD1	1:B:143:TYR:O	1.64	0.79
1:B:336:LYS:HE2	2:B:401:ADP:H5'2	1.65	0.79
1:F:54:VAL:HA	1:F:58:ALA:HB2	1.65	0.79
1:G:32:PRO:HG2	1:G:55:GLY:O	1.82	0.79
1:N:39:ARG:HE	1:N:66:THR:CB	1.95	0.79
1:Q:336:LYS:HE2	2:Q:401:ADP:H5'2	1.65	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:362:TYR:HE1	1:Q:367:PRO:HB3	1.46	0.79
1:R:362:TYR:HE1	1:R:367:PRO:HB3	1.46	0.79
1:T:8:LEU:CD1	1:T:90:PHE:CE1	2.66	0.79
1:T:39:ARG:HE	1:T:66:THR:CB	1.95	0.79
1:T:336:LYS:HE2	2:T:401:ADP:H5'2	1.65	0.79
1:U:54:VAL:HA	1:U:58:ALA:HB2	1.65	0.79
1:V:143:TYR:O	1:V:143:TYR:HD1	1.64	0.79
1:W:54:VAL:HA	1:W:58:ALA:HB2	1.65	0.79
1:D:32:PRO:HG2	1:D:55:GLY:O	1.82	0.79
1:E:45:VAL:O	1:E:45:VAL:CG2	2.30	0.79
1:L:39:ARG:HE	1:L:66:THR:CB	1.95	0.79
1:S:54:VAL:HA	1:S:58:ALA:HB2	1.65	0.79
1:U:45:VAL:O	1:U:45:VAL:CG2	2.30	0.79
1:W:357:ILE:HG12	1:W:370:VAL:CG2	2.07	0.79
1:A:45:VAL:O	1:A:45:VAL:CG2	2.30	0.79
1:D:54:VAL:HA	1:D:58:ALA:HB2	1.65	0.79
1:J:32:PRO:HG2	1:J:55:GLY:O	1.82	0.79
1:Q:39:ARG:HE	1:Q:66:THR:CB	1.95	0.79
1:S:39:ARG:HE	1:S:66:THR:CB	1.95	0.79
1:U:336:LYS:HE2	2:U:401:ADP:H5'2	1.65	0.79
1:V:43:VAL:CG1	1:V:44:MET:N	2.30	0.79
1:D:45:VAL:O	1:D:45:VAL:CG2	2.30	0.79
1:G:357:ILE:HG12	1:G:370:VAL:CG2	2.07	0.79
1:J:54:VAL:HA	1:J:58:ALA:HB2	1.65	0.79
1:O:39:ARG:HE	1:O:66:THR:CB	1.95	0.79
1:O:54:VAL:HA	1:O:58:ALA:HB2	1.65	0.79
1:P:58:ALA:HB1	1:P:65:LEU:HD22	1.64	0.79
1:R:8:LEU:CD1	1:R:90:PHE:CE1	2.66	0.79
1:V:39:ARG:HE	1:V:66:THR:CB	1.95	0.79
1:E:336:LYS:HE2	2:E:401:ADP:H5'2	1.65	0.79
1:F:39:ARG:HE	1:F:66:THR:CB	1.95	0.79
1:H:332:PRO:HG2	1:H:335:ARG:CZ	2.13	0.79
1:J:332:PRO:HG2	1:J:335:ARG:CZ	2.13	0.79
1:M:54:VAL:HA	1:M:58:ALA:HB2	1.65	0.79
1:Q:8:LEU:CD1	1:Q:90:PHE:CE1	2.66	0.79
1:U:32:PRO:HG2	1:U:55:GLY:O	1.82	0.79
1:U:332:PRO:HG2	1:U:335:ARG:CZ	2.13	0.79
1:W:8:LEU:CD1	1:W:90:PHE:CE1	2.66	0.79
1:B:32:PRO:HG2	1:B:55:GLY:O	1.82	0.79
1:C:8:LEU:CD1	1:C:90:PHE:CE1	2.66	0.79
1:C:336:LYS:HE2	2:C:401:ADP:H5'2	1.65	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:336:LYS:HE2	2:D:401:ADP:H5'2	1.65	0.79
1:E:8:LEU:CD1	1:E:90:PHE:CE1	2.66	0.79
1:O:336:LYS:HE2	2:O:401:ADP:H5'2	1.65	0.79
1:R:58:ALA:HB1	1:R:65:LEU:HD22	1.64	0.79
1:U:8:LEU:CD1	1:U:90:PHE:CE1	2.66	0.79
1:H:45:VAL:O	1:H:45:VAL:CG2	2.30	0.78
1:K:39:ARG:HE	1:K:66:THR:CB	1.95	0.78
1:L:332:PRO:HG2	1:L:335:ARG:CZ	2.13	0.78
1:N:45:VAL:O	1:N:45:VAL:CG2	2.30	0.78
1:O:8:LEU:CD1	1:O:90:PHE:CE1	2.66	0.78
1:Q:54:VAL:HA	1:Q:58:ALA:HB2	1.65	0.78
1:R:336:LYS:HE2	2:R:401:ADP:H5'2	1.65	0.78
1:B:54:VAL:HA	1:B:58:ALA:HB2	1.65	0.78
1:C:39:ARG:HE	1:C:66:THR:CB	1.95	0.78
1:F:332:PRO:HG2	1:F:335:ARG:CZ	2.13	0.78
1:G:336:LYS:HE2	2:G:401:ADP:H5'2	1.65	0.78
1:I:332:PRO:HG2	1:I:335:ARG:CZ	2.13	0.78
1:L:32:PRO:HG2	1:L:55:GLY:O	1.82	0.78
1:M:39:ARG:HE	1:M:66:THR:CB	1.95	0.78
1:Q:58:ALA:HB1	1:Q:65:LEU:HD22	1.64	0.78
1:S:332:PRO:HG2	1:S:335:ARG:CZ	2.13	0.78
1:U:39:ARG:HE	1:U:66:THR:CB	1.95	0.78
1:W:332:PRO:HG2	1:W:335:ARG:CZ	2.13	0.78
1:W:336:LYS:HE2	2:W:401:ADP:H5'2	1.65	0.78
1:A:8:LEU:CD1	1:A:90:PHE:CE1	2.66	0.78
1:G:332:PRO:HG2	1:G:335:ARG:CZ	2.13	0.78
1:O:58:ALA:HB1	1:O:65:LEU:HD22	1.64	0.78
1:W:39:ARG:HE	1:W:66:THR:CB	1.95	0.78
1:A:54:VAL:HA	1:A:58:ALA:HB2	1.65	0.78
1:A:236:LEU:HD12	1:A:237:GLU:N	1.99	0.78
1:A:336:LYS:HE2	2:A:401:ADP:H5'2	1.65	0.78
1:G:8:LEU:CD1	1:G:90:PHE:CE1	2.66	0.78
1:J:357:ILE:HG12	1:J:370:VAL:CG2	2.06	0.78
1:L:54:VAL:HA	1:L:58:ALA:HB2	1.65	0.78
1:P:143:TYR:O	1:P:143:TYR:HD1	1.64	0.78
1:Q:45:VAL:O	1:Q:45:VAL:CG2	2.30	0.78
1:D:332:PRO:HG2	1:D:335:ARG:CZ	2.13	0.78
1:E:58:ALA:HB1	1:E:65:LEU:HD22	1.64	0.78
1:I:336:LYS:HE2	2:I:401:ADP:H5'2	1.65	0.78
1:N:54:VAL:HA	1:N:58:ALA:HB2	1.65	0.78
1:W:32:PRO:HG2	1:W:55:GLY:O	1.82	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:8:LEU:CD1	1:D:90:PHE:CE1	2.66	0.78
1:K:54:VAL:HA	1:K:58:ALA:HB2	1.65	0.78
1:K:332:PRO:HG2	1:K:335:ARG:CZ	2.13	0.78
1:M:236:LEU:HD12	1:M:237:GLU:N	1.99	0.78
1:N:332:PRO:HG2	1:N:335:ARG:CZ	2.13	0.78
1:R:32:PRO:HG2	1:R:55:GLY:O	1.82	0.78
1:S:8:LEU:CD1	1:S:90:PHE:CE1	2.66	0.78
1:T:332:PRO:HG2	1:T:335:ARG:CZ	2.13	0.78
1:T:357:ILE:HG12	1:T:370:VAL:CG2	2.07	0.78
1:B:39:ARG:HE	1:B:66:THR:CB	1.95	0.78
1:B:58:ALA:HB1	1:B:65:LEU:HD22	1.64	0.78
1:D:39:ARG:HE	1:D:66:THR:CB	1.95	0.78
1:F:336:LYS:HE2	2:F:401:ADP:H5'2	1.65	0.78
1:H:8:LEU:CD1	1:H:90:PHE:CE1	2.66	0.78
1:J:236:LEU:HD12	1:J:237:GLU:N	1.99	0.78
1:M:336:LYS:HE2	2:M:401:ADP:H5'2	1.65	0.78
1:O:236:LEU:HD12	1:O:237:GLU:N	1.99	0.78
1:Q:332:PRO:HG2	1:Q:335:ARG:CZ	2.13	0.78
1:B:332:PRO:HG2	1:B:335:ARG:CZ	2.13	0.78
1:K:236:LEU:HD12	1:K:237:GLU:N	1.99	0.78
1:L:8:LEU:CD1	1:L:90:PHE:CE1	2.66	0.78
1:M:8:LEU:CD1	1:M:90:PHE:CE1	2.66	0.78
1:P:236:LEU:HD12	1:P:237:GLU:N	1.99	0.78
1:V:332:PRO:HG2	1:V:335:ARG:CZ	2.13	0.78
1:N:8:LEU:CD1	1:N:90:PHE:CE1	2.66	0.78
1:P:336:LYS:HE2	2:P:401:ADP:H5'2	1.65	0.78
1:R:236:LEU:HD12	1:R:237:GLU:N	1.99	0.78
1:E:332:PRO:HG2	1:E:335:ARG:CZ	2.13	0.78
1:F:8:LEU:CD1	1:F:90:PHE:CE1	2.66	0.78
1:G:58:ALA:HB1	1:G:65:LEU:HD22	1.64	0.78
1:J:8:LEU:CD1	1:J:90:PHE:CE1	2.66	0.78
1:R:332:PRO:HG2	1:R:335:ARG:CZ	2.13	0.78
1:U:357:ILE:HG12	1:U:370:VAL:CG2	2.07	0.78
1:F:236:LEU:HD12	1:F:237:GLU:N	1.99	0.77
1:L:236:LEU:HD12	1:L:237:GLU:N	1.99	0.77
1:N:35:VAL:HG22	1:N:52:SER:HB2	1.66	0.77
1:P:332:PRO:HG2	1:P:335:ARG:CZ	2.13	0.77
1:T:58:ALA:HB1	1:T:65:LEU:HD22	1.64	0.77
1:V:8:LEU:CD1	1:V:90:PHE:CE1	2.66	0.77
1:C:236:LEU:HD12	1:C:237:GLU:N	1.99	0.77
1:D:236:LEU:HD12	1:D:237:GLU:N	1.99	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:357:ILE:HG12	1:H:370:VAL:CG2	2.07	0.77
1:I:58:ALA:HB1	1:I:65:LEU:HD22	1.64	0.77
1:J:35:VAL:HG22	1:J:52:SER:HB2	1.66	0.77
1:M:58:ALA:HB1	1:M:65:LEU:HD22	1.64	0.77
1:M:332:PRO:HG2	1:M:335:ARG:CZ	2.13	0.77
1:P:54:VAL:HA	1:P:58:ALA:HB2	1.65	0.77
1:V:54:VAL:HA	1:V:58:ALA:HB2	1.65	0.77
1:V:58:ALA:HB1	1:V:65:LEU:HD22	1.64	0.77
1:V:357:ILE:HG12	1:V:370:VAL:CG2	2.07	0.77
1:I:357:ILE:HG12	1:I:370:VAL:CG2	2.07	0.77
1:M:45:VAL:O	1:M:45:VAL:CG2	2.30	0.77
1:P:8:LEU:CD1	1:P:90:PHE:CE1	2.66	0.77
1:A:35:VAL:HG22	1:A:52:SER:HB2	1.66	0.77
1:G:54:VAL:HA	1:G:58:ALA:HB2	1.65	0.77
1:I:236:LEU:HD12	1:I:237:GLU:N	1.99	0.77
1:N:39:ARG:NE	1:N:66:THR:HA	2.00	0.77
1:O:332:PRO:HG2	1:O:335:ARG:CZ	2.13	0.77
1:P:287:ILE:CD1	1:R:208:ILE:HD13	2.15	0.77
1:Q:173:HIS:CE1	1:R:268:GLY:HA3	2.19	0.77
1:W:35:VAL:HG22	1:W:52:SER:HB2	1.66	0.77
1:A:287:ILE:CD1	1:C:208:ILE:HD13	2.15	0.77
1:C:54:VAL:HA	1:C:58:ALA:HB2	1.65	0.77
1:D:173:HIS:CE1	1:E:268:GLY:HA3	2.19	0.77
1:E:54:VAL:HA	1:E:58:ALA:HB2	1.65	0.77
1:F:173:HIS:CE1	1:G:268:GLY:HA3	2.19	0.77
1:M:287:ILE:CD1	1:O:208:ILE:HD13	2.15	0.77
1:Q:236:LEU:HD12	1:Q:237:GLU:N	1.99	0.77
1:T:54:VAL:HA	1:T:58:ALA:HB2	1.65	0.77
1:W:39:ARG:NE	1:W:66:THR:HA	2.00	0.77
1:B:236:LEU:HD12	1:B:237:GLU:N	1.99	0.77
1:G:287:ILE:CD1	1:I:208:ILE:HD13	2.15	0.77
1:H:336:LYS:HE2	2:H:401:ADP:H5'2	1.65	0.77
1:O:173:HIS:CE1	1:P:268:GLY:HA3	2.19	0.77
1:O:287:ILE:CD1	1:Q:208:ILE:HD13	2.15	0.77
1:V:236:LEU:HD12	1:V:237:GLU:N	1.99	0.77
1:F:287:ILE:CD1	1:H:208:ILE:HD13	2.15	0.77
1:G:236:LEU:HD12	1:G:237:GLU:N	1.99	0.77
1:I:54:VAL:HA	1:I:58:ALA:HB2	1.65	0.77
1:K:336:LYS:HE2	2:K:401:ADP:H5'2	1.65	0.77
1:N:336:LYS:HE2	2:N:401:ADP:H5'2	1.65	0.77
1:P:39:ARG:NE	1:P:66:THR:HA	2.00	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:34:ILE:C	1:S:54:VAL:HG21	2.05	0.77
1:T:236:LEU:HD12	1:T:237:GLU:N	1.99	0.77
1:A:332:PRO:HG2	1:A:335:ARG:CZ	2.13	0.77
1:E:39:ARG:NE	1:E:66:THR:HA	2.00	0.77
1:E:173:HIS:CE1	1:F:268:GLY:HA3	2.19	0.77
1:H:236:LEU:HD12	1:H:237:GLU:N	1.99	0.77
1:K:58:ALA:HB1	1:K:65:LEU:HD22	1.64	0.77
1:O:34:ILE:C	1:O:54:VAL:HG21	2.06	0.77
1:P:173:HIS:CE1	1:Q:268:GLY:HA3	2.19	0.77
1:R:34:ILE:C	1:R:54:VAL:HG21	2.05	0.77
1:R:287:ILE:CD1	1:T:208:ILE:HD13	2.15	0.77
1:U:236:LEU:HD12	1:U:237:GLU:N	1.99	0.77
1:A:39:ARG:NE	1:A:66:THR:HA	2.00	0.77
1:C:287:ILE:CD1	1:E:208:ILE:HD13	2.15	0.77
1:D:36:GLY:O	1:D:52:SER:HA	1.85	0.77
1:F:34:ILE:C	1:F:54:VAL:HG21	2.06	0.77
1:H:39:ARG:NE	1:H:66:THR:HA	2.00	0.77
1:H:287:ILE:CD1	1:J:208:ILE:HD13	2.15	0.77
1:I:287:ILE:CD1	1:K:208:ILE:HD13	2.15	0.77
1:R:35:VAL:HG22	1:R:52:SER:HB2	1.66	0.77
1:S:173:HIS:CE1	1:T:268:GLY:HA3	2.20	0.77
1:T:173:HIS:CE1	1:U:268:GLY:HA3	2.19	0.77
1:U:287:ILE:CD1	1:W:208:ILE:HD13	2.15	0.77
1:B:34:ILE:C	1:B:54:VAL:HG21	2.06	0.77
1:B:173:HIS:CE1	1:C:268:GLY:HA3	2.19	0.77
1:E:34:ILE:C	1:E:54:VAL:HG21	2.06	0.77
1:I:34:ILE:C	1:I:54:VAL:HG21	2.05	0.77
1:L:39:ARG:NE	1:L:66:THR:HA	2.00	0.77
1:N:54:VAL:HG12	1:N:55:GLY:N	2.00	0.77
1:N:287:ILE:CD1	1:P:208:ILE:HD13	2.15	0.77
1:O:36:GLY:O	1:O:52:SER:HA	1.85	0.77
1:W:34:ILE:C	1:W:54:VAL:HG21	2.06	0.77
1:C:173:HIS:CE1	1:D:268:GLY:HA3	2.19	0.76
1:C:332:PRO:HG2	1:C:335:ARG:CZ	2.13	0.76
1:D:287:ILE:CD1	1:F:208:ILE:HD13	2.15	0.76
1:E:36:GLY:O	1:E:52:SER:HA	1.85	0.76
1:F:35:VAL:HG22	1:F:52:SER:HB2	1.66	0.76
1:G:36:GLY:O	1:G:52:SER:HA	1.85	0.76
1:H:173:HIS:CE1	1:I:268:GLY:HA3	2.19	0.76
1:I:36:GLY:O	1:I:52:SER:HA	1.85	0.76
1:J:39:ARG:NE	1:J:66:THR:HA	2.00	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:34:ILE:C	1:N:54:VAL:HG21	2.05	0.76
1:N:36:GLY:O	1:N:52:SER:HA	1.85	0.76
1:P:36:GLY:O	1:P:52:SER:HA	1.85	0.76
1:R:37:ARG:HG3	1:R:38:PRO:CD	2.15	0.76
1:R:54:VAL:HA	1:R:58:ALA:HB2	1.65	0.76
1:A:173:HIS:CE1	1:B:268:GLY:HA3	2.19	0.76
1:E:236:LEU:HD12	1:E:237:GLU:N	1.99	0.76
1:F:357:ILE:HG12	1:F:370:VAL:CG2	2.07	0.76
1:J:54:VAL:HG12	1:J:55:GLY:N	2.00	0.76
1:K:34:ILE:C	1:K:54:VAL:HG21	2.06	0.76
1:L:34:ILE:C	1:L:54:VAL:HG21	2.06	0.76
1:L:336:LYS:HE2	2:L:401:ADP:H5'2	1.65	0.76
1:N:173:HIS:CE1	1:O:268:GLY:HA3	2.19	0.76
1:P:37:ARG:HG3	1:P:38:PRO:CD	2.15	0.76
1:S:35:VAL:HG22	1:S:52:SER:HB2	1.66	0.76
1:U:36:GLY:O	1:U:52:SER:HA	1.85	0.76
1:U:37:ARG:HG3	1:U:38:PRO:CD	2.15	0.76
1:V:34:ILE:C	1:V:54:VAL:HG21	2.05	0.76
1:W:37:ARG:HG3	1:W:38:PRO:CD	2.15	0.76
1:C:34:ILE:C	1:C:54:VAL:HG21	2.06	0.76
1:C:39:ARG:NE	1:C:66:THR:HA	2.00	0.76
1:E:35:VAL:HG22	1:E:52:SER:HB2	1.66	0.76
1:F:36:GLY:O	1:F:52:SER:HA	1.85	0.76
1:K:36:GLY:O	1:K:52:SER:HA	1.85	0.76
1:K:39:ARG:NE	1:K:66:THR:HA	2.00	0.76
1:L:36:GLY:O	1:L:52:SER:HA	1.85	0.76
1:M:173:HIS:CE1	1:N:268:GLY:HA3	2.19	0.76
1:R:36:GLY:O	1:R:52:SER:HA	1.85	0.76
1:S:37:ARG:HG3	1:S:38:PRO:CD	2.15	0.76
1:V:173:HIS:CE1	1:W:268:GLY:HA3	2.20	0.76
1:C:36:GLY:O	1:C:52:SER:HA	1.85	0.76
1:C:54:VAL:HG12	1:C:55:GLY:N	2.00	0.76
1:F:39:ARG:NE	1:F:66:THR:HA	2.00	0.76
1:J:143:TYR:CZ	1:L:45:VAL:HG21	2.21	0.76
1:Q:37:ARG:HG3	1:Q:38:PRO:CD	2.15	0.76
1:R:173:HIS:CE1	1:S:268:GLY:HA3	2.20	0.76
1:S:287:ILE:CD1	1:U:208:ILE:HD13	2.15	0.76
1:W:236:LEU:HD12	1:W:237:GLU:N	1.99	0.76
1:A:34:ILE:C	1:A:54:VAL:HG21	2.06	0.76
1:F:143:TYR:CZ	1:H:45:VAL:HG21	2.21	0.76
1:G:173:HIS:CE1	1:H:268:GLY:HA3	2.19	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:34:ILE:C	1:H:54:VAL:HG21	2.06	0.76
1:J:34:ILE:C	1:J:54:VAL:HG21	2.06	0.76
1:J:287:ILE:CD1	1:L:208:ILE:HD13	2.15	0.76
1:J:336:LYS:HE2	2:J:401:ADP:H5'2	1.65	0.76
1:N:37:ARG:HG3	1:N:38:PRO:CD	2.15	0.76
1:N:236:LEU:HD12	1:N:237:GLU:N	1.99	0.76
1:O:39:ARG:NE	1:O:66:THR:HA	2.00	0.76
1:P:143:TYR:CZ	1:R:45:VAL:HG21	2.21	0.76
1:Q:39:ARG:NE	1:Q:66:THR:HA	2.00	0.76
1:Q:143:TYR:CZ	1:S:45:VAL:HG21	2.21	0.76
1:R:54:VAL:HG12	1:R:55:GLY:N	2.00	0.76
1:S:236:LEU:HD12	1:S:237:GLU:N	1.99	0.76
1:S:357:ILE:HG12	1:S:370:VAL:CG2	2.07	0.76
1:T:36:GLY:O	1:T:52:SER:HA	1.85	0.76
1:U:143:TYR:CZ	1:W:45:VAL:HG21	2.21	0.76
1:E:54:VAL:HG12	1:E:55:GLY:N	2.00	0.76
1:G:39:ARG:NE	1:G:66:THR:HA	2.00	0.76
1:G:143:TYR:CZ	1:I:45:VAL:HG21	2.21	0.76
1:I:39:ARG:NE	1:I:66:THR:HA	2.00	0.76
1:I:173:HIS:CE1	1:J:268:GLY:HA3	2.20	0.76
1:J:36:GLY:O	1:J:52:SER:HA	1.85	0.76
1:L:173:HIS:CE1	1:M:268:GLY:HA3	2.19	0.76
1:M:34:ILE:C	1:M:54:VAL:HG21	2.05	0.76
1:S:36:GLY:O	1:S:52:SER:HA	1.85	0.76
1:V:39:ARG:NE	1:V:66:THR:HA	2.00	0.76
1:B:142:LEU:HD21	1:B:165:ILE:HD13	1.68	0.76
1:D:34:ILE:C	1:D:54:VAL:HG21	2.06	0.76
1:E:143:TYR:CZ	1:G:45:VAL:HG21	2.21	0.76
1:E:287:ILE:CD1	1:G:208:ILE:HD13	2.15	0.76
1:F:142:LEU:HD21	1:F:165:ILE:HD13	1.68	0.76
1:K:143:TYR:CZ	1:M:45:VAL:HG21	2.21	0.76
1:P:34:ILE:C	1:P:54:VAL:HG21	2.06	0.76
1:S:142:LEU:HD21	1:S:165:ILE:HD13	1.68	0.76
1:T:287:ILE:CD1	1:V:208:ILE:HD13	2.15	0.76
1:U:39:ARG:NE	1:U:66:THR:HA	2.00	0.76
1:A:36:GLY:O	1:A:52:SER:HA	1.85	0.76
1:A:143:TYR:CZ	1:C:45:VAL:HG21	2.21	0.76
1:B:287:ILE:CD1	1:D:208:ILE:HD13	2.15	0.76
1:K:287:ILE:CD1	1:M:208:ILE:HD13	2.15	0.76
1:M:36:GLY:O	1:M:52:SER:HA	1.85	0.76
1:O:37:ARG:HG3	1:O:38:PRO:CD	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:287:ILE:CD1	1:S:208:ILE:HD13	2.15	0.76
1:U:142:LEU:HD21	1:U:165:ILE:HD13	1.68	0.76
1:U:173:HIS:CE1	1:V:268:GLY:HA3	2.19	0.76
1:B:143:TYR:CZ	1:D:45:VAL:HG21	2.21	0.76
1:D:143:TYR:CZ	1:F:45:VAL:HG21	2.21	0.76
1:I:44:MET:HG3	1:I:45:VAL:H	1.51	0.76
1:K:148:THR:O	1:K:165:ILE:HG22	1.86	0.76
1:K:357:ILE:HG12	1:K:370:VAL:CG2	2.07	0.76
1:M:142:LEU:HD21	1:M:165:ILE:HD13	1.68	0.76
1:O:142:LEU:HD21	1:O:165:ILE:HD13	1.68	0.76
1:R:143:TYR:CZ	1:T:45:VAL:HG21	2.21	0.76
1:T:39:ARG:NE	1:T:66:THR:HA	2.00	0.76
1:T:54:VAL:HG12	1:T:55:GLY:N	2.00	0.76
1:U:34:ILE:C	1:U:54:VAL:HG21	2.05	0.76
1:U:54:VAL:HG12	1:U:55:GLY:N	2.00	0.76
1:V:148:THR:O	1:V:165:ILE:HG22	1.86	0.76
1:C:35:VAL:HG22	1:C:52:SER:HB2	1.66	0.76
1:H:142:LEU:HD21	1:H:165:ILE:HD13	1.68	0.76
1:L:143:TYR:CZ	1:N:45:VAL:HG21	2.21	0.76
1:O:44:MET:HG3	1:O:45:VAL:H	1.51	0.76
1:V:44:MET:HG3	1:V:45:VAL:H	1.51	0.76
1:B:44:MET:HG3	1:B:45:VAL:H	1.51	0.75
1:B:45:VAL:O	1:B:45:VAL:CG2	2.30	0.75
1:D:39:ARG:NE	1:D:66:THR:HA	2.00	0.75
1:D:357:ILE:HG12	1:D:370:VAL:CG2	2.07	0.75
1:J:173:HIS:CE1	1:K:268:GLY:HA3	2.19	0.75
1:L:37:ARG:HG3	1:L:38:PRO:CD	2.15	0.75
1:L:287:ILE:CD1	1:N:208:ILE:HD13	2.15	0.75
1:Q:36:GLY:O	1:Q:52:SER:HA	1.85	0.75
1:S:39:ARG:NE	1:S:66:THR:HA	2.00	0.75
1:V:36:GLY:O	1:V:52:SER:HA	1.85	0.75
1:B:39:ARG:NE	1:B:66:THR:HA	2.00	0.75
1:D:142:LEU:HD21	1:D:165:ILE:HD13	1.68	0.75
1:H:36:GLY:O	1:H:52:SER:HA	1.85	0.75
1:I:54:VAL:HG12	1:I:55:GLY:N	2.00	0.75
1:K:173:HIS:CE1	1:L:268:GLY:HA3	2.19	0.75
1:M:37:ARG:HG3	1:M:38:PRO:CD	2.15	0.75
1:O:35:VAL:HG22	1:O:52:SER:HB2	1.66	0.75
1:Q:34:ILE:C	1:Q:54:VAL:HG21	2.06	0.75
1:R:39:ARG:NE	1:R:66:THR:HA	2.00	0.75
1:A:54:VAL:HG12	1:A:55:GLY:N	2.00	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:GLY:O	1:B:52:SER:HA	1.85	0.75
1:B:148:THR:O	1:B:165:ILE:HG22	1.86	0.75
1:B:357:ILE:HG12	1:B:370:VAL:CG2	2.07	0.75
1:H:143:TYR:CZ	1:J:45:VAL:HG21	2.21	0.75
1:I:35:VAL:HG22	1:I:52:SER:HB2	1.66	0.75
1:J:148:THR:O	1:J:165:ILE:HG22	1.86	0.75
1:K:142:LEU:HD11	1:K:165:ILE:HD11	1.69	0.75
1:L:148:THR:O	1:L:165:ILE:HG22	1.86	0.75
1:P:54:VAL:HG12	1:P:55:GLY:N	2.01	0.75
1:T:34:ILE:C	1:T:54:VAL:HG21	2.06	0.75
1:F:54:VAL:HG12	1:F:55:GLY:N	2.00	0.75
1:N:143:TYR:CZ	1:P:45:VAL:HG21	2.21	0.75
1:O:143:TYR:CZ	1:Q:45:VAL:HG21	2.21	0.75
1:F:44:MET:HG3	1:F:45:VAL:H	1.51	0.75
1:G:54:VAL:HG12	1:G:55:GLY:N	2.01	0.75
1:H:148:THR:O	1:H:165:ILE:HG22	1.86	0.75
1:M:39:ARG:NE	1:M:66:THR:HA	2.00	0.75
1:Q:142:LEU:HD21	1:Q:165:ILE:HD13	1.68	0.75
1:S:143:TYR:CZ	1:U:45:VAL:HG21	2.21	0.75
1:U:35:VAL:HG22	1:U:52:SER:HB2	1.66	0.75
1:E:148:THR:O	1:E:165:ILE:HG22	1.86	0.75
1:G:148:THR:O	1:G:165:ILE:HG22	1.86	0.75
1:K:35:VAL:HG22	1:K:52:SER:HB2	1.66	0.75
1:L:35:VAL:HG22	1:L:52:SER:HB2	1.66	0.75
1:M:143:TYR:CZ	1:O:45:VAL:HG21	2.21	0.75
1:M:148:THR:O	1:M:165:ILE:HG22	1.86	0.75
1:N:290:ARG:CD	1:P:244:ASP:HB2	2.12	0.75
1:Q:35:VAL:HG22	1:Q:52:SER:HB2	1.66	0.75
1:Q:142:LEU:HD11	1:Q:165:ILE:HD11	1.69	0.75
1:Q:148:THR:O	1:Q:165:ILE:HG22	1.86	0.75
1:R:44:MET:HG3	1:R:45:VAL:H	1.51	0.75
1:V:42:GLY:O	1:V:43:VAL:HG12	1.87	0.75
1:W:54:VAL:HG12	1:W:55:GLY:N	2.00	0.75
1:C:42:GLY:O	1:C:43:VAL:HG12	1.87	0.75
1:G:34:ILE:C	1:G:54:VAL:HG21	2.06	0.75
1:G:142:LEU:HD11	1:G:165:ILE:HD11	1.69	0.75
1:K:142:LEU:HD21	1:K:165:ILE:HD13	1.68	0.75
1:L:142:LEU:HD21	1:L:165:ILE:HD13	1.68	0.75
1:M:44:MET:HG3	1:M:45:VAL:H	1.51	0.75
1:N:148:THR:O	1:N:165:ILE:HG22	1.86	0.75
1:T:143:TYR:CZ	1:V:45:VAL:HG21	2.21	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:35:VAL:HG22	1:V:52:SER:HB2	1.66	0.75
1:V:142:LEU:HD11	1:V:165:ILE:HD11	1.69	0.75
1:W:142:LEU:HD21	1:W:165:ILE:HD13	1.68	0.75
1:D:42:GLY:O	1:D:43:VAL:HG12	1.87	0.75
1:E:42:GLY:O	1:E:43:VAL:HG12	1.87	0.75
1:F:148:THR:O	1:F:165:ILE:HG22	1.86	0.75
1:G:35:VAL:HG22	1:G:52:SER:HB2	1.66	0.75
1:J:37:ARG:HG3	1:J:38:PRO:CD	2.15	0.75
1:J:39:ARG:HE	1:J:66:THR:HA	1.52	0.75
1:J:142:LEU:HD21	1:J:165:ILE:HD13	1.68	0.75
1:K:37:ARG:HG3	1:K:38:PRO:CD	2.15	0.75
1:T:42:GLY:O	1:T:43:VAL:HG12	1.87	0.75
1:U:42:GLY:O	1:U:43:VAL:HG12	1.87	0.75
1:V:54:VAL:HG12	1:V:55:GLY:N	2.00	0.75
1:A:42:GLY:O	1:A:43:VAL:HG12	1.87	0.75
1:B:42:GLY:O	1:B:43:VAL:HG12	1.87	0.75
1:C:143:TYR:CZ	1:E:45:VAL:HG21	2.21	0.75
1:D:142:LEU:HD11	1:D:165:ILE:HD11	1.69	0.75
1:I:148:THR:O	1:I:165:ILE:HG22	1.86	0.75
1:Q:357:ILE:HG12	1:Q:370:VAL:CG2	2.07	0.75
1:S:44:MET:HG3	1:S:45:VAL:H	1.51	0.75
1:T:148:THR:O	1:T:165:ILE:HG22	1.86	0.75
1:W:42:GLY:O	1:W:43:VAL:HG12	1.87	0.75
1:A:39:ARG:HE	1:A:66:THR:HA	1.52	0.74
1:B:35:VAL:HG22	1:B:52:SER:HB2	1.66	0.74
1:I:142:LEU:HD21	1:I:165:ILE:HD13	1.68	0.74
1:I:143:TYR:CZ	1:K:45:VAL:HG21	2.21	0.74
1:M:35:VAL:HG22	1:M:52:SER:HB2	1.66	0.74
1:O:45:VAL:O	1:O:45:VAL:CG2	2.30	0.74
1:O:54:VAL:HG12	1:O:55:GLY:N	2.00	0.74
1:O:142:LEU:HD11	1:O:165:ILE:HD11	1.69	0.74
1:P:35:VAL:HG22	1:P:52:SER:HB2	1.66	0.74
1:W:36:GLY:O	1:W:52:SER:HA	1.85	0.74
1:E:44:MET:HG3	1:E:45:VAL:H	1.51	0.74
1:F:142:LEU:HD11	1:F:165:ILE:HD11	1.69	0.74
1:G:42:GLY:O	1:G:43:VAL:HG12	1.87	0.74
1:H:54:VAL:HG12	1:H:55:GLY:N	2.00	0.74
1:J:290:ARG:CD	1:L:244:ASP:HB2	2.12	0.74
1:M:142:LEU:HD11	1:M:165:ILE:HD11	1.69	0.74
1:T:35:VAL:HG22	1:T:52:SER:HB2	1.66	0.74
1:U:39:ARG:HE	1:U:66:THR:HA	1.52	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:35:VAL:HG22	1:D:52:SER:HB2	1.66	0.74
1:M:357:ILE:HG12	1:M:370:VAL:CG2	2.07	0.74
1:P:148:THR:O	1:P:165:ILE:HG22	1.86	0.74
1:I:37:ARG:HG3	1:I:38:PRO:CD	2.15	0.74
1:R:42:GLY:O	1:R:43:VAL:HG12	1.87	0.74
1:W:148:THR:O	1:W:165:ILE:HG22	1.86	0.74
1:A:142:LEU:HD21	1:A:165:ILE:HD13	1.68	0.74
1:G:44:MET:HG3	1:G:45:VAL:H	1.51	0.74
1:H:35:VAL:HG22	1:H:52:SER:HB2	1.66	0.74
1:K:44:MET:HG3	1:K:45:VAL:H	1.51	0.74
1:L:54:VAL:HG12	1:L:55:GLY:N	2.00	0.74
1:N:142:LEU:HD21	1:N:165:ILE:HD13	1.68	0.74
1:O:357:ILE:HG12	1:O:370:VAL:CG2	2.07	0.74
1:R:142:LEU:HD11	1:R:165:ILE:HD11	1.69	0.74
1:S:39:ARG:HE	1:S:66:THR:HA	1.52	0.74
1:S:42:GLY:O	1:S:43:VAL:HG12	1.87	0.74
1:U:142:LEU:HD11	1:U:165:ILE:HD11	1.69	0.74
1:V:142:LEU:HD21	1:V:165:ILE:HD13	1.68	0.74
1:A:148:THR:O	1:A:165:ILE:HG22	1.86	0.74
1:D:54:VAL:HG12	1:D:55:GLY:N	2.00	0.74
1:D:148:THR:O	1:D:165:ILE:HG22	1.86	0.74
1:I:42:GLY:O	1:I:43:VAL:HG12	1.87	0.74
1:L:42:GLY:O	1:L:43:VAL:HG12	1.87	0.74
1:M:42:GLY:O	1:M:43:VAL:HG12	1.87	0.74
1:Q:54:VAL:HG12	1:Q:55:GLY:N	2.01	0.74
1:Q:180:LEU:HD12	1:Q:181:ALA:N	2.03	0.74
1:S:148:THR:O	1:S:165:ILE:HG22	1.86	0.74
1:B:54:VAL:HG12	1:B:55:GLY:N	2.00	0.74
1:B:142:LEU:HD11	1:B:165:ILE:HD11	1.69	0.74
1:F:42:GLY:O	1:F:43:VAL:HG12	1.87	0.74
1:G:142:LEU:HD21	1:G:165:ILE:HD13	1.68	0.74
1:H:37:ARG:HG3	1:H:38:PRO:CD	2.15	0.74
1:H:39:ARG:HE	1:H:66:THR:HA	1.52	0.74
1:M:39:ARG:HE	1:M:66:THR:HA	1.52	0.74
1:M:54:VAL:HG12	1:M:55:GLY:N	2.01	0.74
1:O:148:THR:O	1:O:165:ILE:HG22	1.86	0.74
1:Q:290:ARG:CD	1:S:244:ASP:HB2	2.12	0.74
1:S:54:VAL:HG12	1:S:55:GLY:N	2.01	0.74
1:S:180:LEU:HD12	1:S:181:ALA:N	2.03	0.74
1:C:44:MET:HG3	1:C:45:VAL:H	1.51	0.74
1:C:148:THR:O	1:C:165:ILE:HG22	1.86	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:37:ARG:HG3	1:G:38:PRO:CD	2.15	0.74
1:K:42:GLY:O	1:K:43:VAL:HG12	1.87	0.74
1:L:43:VAL:O	1:L:44:MET:CB	2.36	0.74
1:O:42:GLY:O	1:O:43:VAL:HG12	1.87	0.74
1:P:42:GLY:O	1:P:43:VAL:HG12	1.87	0.74
1:R:39:ARG:HE	1:R:66:THR:HA	1.52	0.74
1:T:142:LEU:HD21	1:T:165:ILE:HD13	1.68	0.74
1:U:180:LEU:HD12	1:U:181:ALA:N	2.03	0.74
1:J:42:GLY:O	1:J:43:VAL:HG12	1.87	0.74
1:K:39:ARG:HE	1:K:66:THR:HA	1.52	0.74
1:N:42:GLY:O	1:N:43:VAL:HG12	1.87	0.74
1:O:180:LEU:HD12	1:O:181:ALA:N	2.03	0.74
1:U:44:MET:HG3	1:U:45:VAL:H	1.51	0.74
1:U:148:THR:O	1:U:165:ILE:HG22	1.86	0.74
1:J:180:LEU:HD12	1:J:181:ALA:N	2.03	0.74
1:A:43:VAL:O	1:A:44:MET:CB	2.36	0.73
1:C:180:LEU:HD12	1:C:181:ALA:N	2.03	0.73
1:F:290:ARG:CD	1:H:244:ASP:HB2	2.12	0.73
1:H:180:LEU:HD12	1:H:181:ALA:N	2.03	0.73
1:J:44:MET:HG3	1:J:45:VAL:H	1.51	0.73
1:K:54:VAL:HG12	1:K:55:GLY:N	2.00	0.73
1:L:180:LEU:HD12	1:L:181:ALA:N	2.03	0.73
1:R:148:THR:O	1:R:165:ILE:HG22	1.86	0.73
1:T:44:MET:HG3	1:T:45:VAL:H	1.51	0.73
1:W:43:VAL:O	1:W:44:MET:CB	2.36	0.73
1:W:44:MET:HG3	1:W:45:VAL:H	1.51	0.73
1:C:43:VAL:O	1:C:44:MET:CB	2.36	0.73
1:D:44:MET:HG3	1:D:45:VAL:H	1.51	0.73
1:D:287:ILE:HD11	1:F:208:ILE:CD1	2.19	0.73
1:E:37:ARG:HG3	1:E:38:PRO:CD	2.16	0.73
1:E:142:LEU:HD11	1:E:165:ILE:HD11	1.69	0.73
1:J:43:VAL:O	1:J:44:MET:CB	2.36	0.73
1:N:43:VAL:O	1:N:44:MET:CB	2.36	0.73
1:N:44:MET:HG3	1:N:45:VAL:H	1.51	0.73
1:P:39:ARG:HE	1:P:66:THR:HA	1.52	0.73
1:P:142:LEU:HD21	1:P:165:ILE:HD13	1.68	0.73
1:Q:44:MET:HG3	1:Q:45:VAL:H	1.51	0.73
1:R:142:LEU:HD21	1:R:165:ILE:HD13	1.68	0.73
1:U:43:VAL:O	1:U:44:MET:CB	2.36	0.73
1:U:290:ARG:CD	1:W:244:ASP:HB2	2.12	0.73
1:A:44:MET:HG3	1:A:45:VAL:H	1.51	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:142:LEU:HD21	1:E:165:ILE:HD13	1.68	0.73
1:G:180:LEU:HD12	1:G:181:ALA:N	2.03	0.73
1:H:223:PHE:CD1	1:H:259:GLU:HG2	2.24	0.73
1:I:142:LEU:HD11	1:I:165:ILE:HD11	1.69	0.73
1:J:142:LEU:HD11	1:J:165:ILE:HD11	1.69	0.73
1:K:287:ILE:HD11	1:M:208:ILE:CD1	2.19	0.73
1:M:180:LEU:HD12	1:M:181:ALA:N	2.03	0.73
1:P:44:MET:HG3	1:P:45:VAL:H	1.51	0.73
1:P:287:ILE:HD11	1:R:208:ILE:CD1	2.19	0.73
1:R:180:LEU:HD12	1:R:181:ALA:N	2.03	0.73
1:R:287:ILE:HD11	1:T:208:ILE:CD1	2.19	0.73
1:T:142:LEU:HD11	1:T:165:ILE:HD11	1.69	0.73
1:T:142:LEU:HD11	1:T:165:ILE:CD1	2.19	0.73
1:T:180:LEU:HD12	1:T:181:ALA:N	2.03	0.73
1:A:142:LEU:HD11	1:A:165:ILE:CD1	2.19	0.73
1:B:34:ILE:HD13	1:B:67:LEU:HD13	1.71	0.73
1:B:287:ILE:HD11	1:D:208:ILE:CD1	2.19	0.73
1:C:142:LEU:HD21	1:C:165:ILE:HD13	1.68	0.73
1:E:142:LEU:HD11	1:E:165:ILE:CD1	2.19	0.73
1:G:287:ILE:HD11	1:I:208:ILE:CD1	2.19	0.73
1:I:287:ILE:HD11	1:K:208:ILE:CD1	2.19	0.73
1:J:223:PHE:CD1	1:J:259:GLU:HG2	2.23	0.73
1:L:44:MET:HG3	1:L:45:VAL:H	1.51	0.73
1:M:287:ILE:HD11	1:O:208:ILE:CD1	2.19	0.73
1:N:180:LEU:HD12	1:N:181:ALA:N	2.03	0.73
1:O:39:ARG:HE	1:O:66:THR:HA	1.52	0.73
1:W:180:LEU:HD12	1:W:181:ALA:N	2.03	0.73
1:A:142:LEU:HD11	1:A:165:ILE:HD11	1.69	0.73
1:D:34:ILE:HD13	1:D:67:LEU:HD13	1.71	0.73
1:F:287:ILE:HD11	1:H:208:ILE:CD1	2.19	0.73
1:G:167:GLU:CD	1:I:61:LYS:HE2	2.09	0.73
1:I:39:ARG:HE	1:I:66:THR:HA	1.52	0.73
1:M:167:GLU:CD	1:O:61:LYS:HE2	2.09	0.73
1:N:287:ILE:HD11	1:P:208:ILE:CD1	2.19	0.73
1:O:208:ILE:CD1	1:O:243:PRO:HD2	2.18	0.73
1:P:142:LEU:HD11	1:P:165:ILE:CD1	2.19	0.73
1:E:180:LEU:HD12	1:E:181:ALA:N	2.03	0.73
1:E:287:ILE:HD11	1:G:208:ILE:CD1	2.19	0.73
1:F:37:ARG:HG3	1:F:38:PRO:CD	2.15	0.73
1:F:180:LEU:HD12	1:F:181:ALA:N	2.03	0.73
1:F:223:PHE:CD1	1:F:259:GLU:HG2	2.24	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:44:MET:HG3	1:H:45:VAL:H	1.51	0.73
1:J:142:LEU:HD11	1:J:165:ILE:CD1	2.19	0.73
1:L:39:ARG:HE	1:L:66:THR:HA	1.52	0.73
1:O:287:ILE:HD11	1:Q:208:ILE:CD1	2.19	0.73
1:O:290:ARG:CD	1:Q:244:ASP:HB2	2.12	0.73
1:P:142:LEU:HD11	1:P:165:ILE:HD11	1.69	0.73
1:P:180:LEU:HD12	1:P:181:ALA:N	2.03	0.73
1:V:39:ARG:HE	1:V:66:THR:HA	1.52	0.73
1:V:180:LEU:HD12	1:V:181:ALA:N	2.03	0.73
1:V:223:PHE:CD1	1:V:259:GLU:HG2	2.24	0.73
1:W:142:LEU:HD11	1:W:165:ILE:HD11	1.69	0.73
1:C:37:ARG:HG3	1:C:38:PRO:CD	2.15	0.73
1:K:45:VAL:O	1:K:45:VAL:CG2	2.30	0.73
1:L:142:LEU:HD11	1:L:165:ILE:HD11	1.69	0.73
1:L:142:LEU:HD11	1:L:165:ILE:CD1	2.19	0.73
1:L:223:PHE:CD1	1:L:259:GLU:HG2	2.23	0.73
1:N:39:ARG:HE	1:N:66:THR:HA	1.52	0.73
1:N:142:LEU:HD11	1:N:165:ILE:HD11	1.69	0.73
1:O:167:GLU:CD	1:Q:61:LYS:HE2	2.09	0.73
1:P:223:PHE:CD1	1:P:259:GLU:HG2	2.24	0.73
1:R:290:ARG:CD	1:T:244:ASP:HB2	2.12	0.73
1:T:39:ARG:HE	1:T:66:THR:HA	1.52	0.73
1:T:287:ILE:HD11	1:V:208:ILE:CD1	2.19	0.73
1:D:208:ILE:CD1	1:D:243:PRO:HD2	2.18	0.73
1:E:208:ILE:CD1	1:E:243:PRO:HD2	2.18	0.73
1:F:34:ILE:HD13	1:F:67:LEU:HD13	1.71	0.73
1:G:39:ARG:HE	1:G:66:THR:HA	1.52	0.73
1:H:42:GLY:O	1:H:43:VAL:HG12	1.87	0.73
1:I:167:GLU:CD	1:K:61:LYS:HE2	2.09	0.73
1:N:223:PHE:CD1	1:N:259:GLU:HG2	2.24	0.73
1:O:223:PHE:CD1	1:O:259:GLU:HG2	2.24	0.73
1:Q:39:ARG:HE	1:Q:66:THR:HA	1.52	0.73
1:Q:42:GLY:O	1:Q:43:VAL:HG12	1.87	0.73
1:Q:223:PHE:CD1	1:Q:259:GLU:HG2	2.24	0.73
1:R:223:PHE:CD1	1:R:259:GLU:HG2	2.24	0.73
1:T:223:PHE:CD1	1:T:259:GLU:HG2	2.24	0.73
1:U:167:GLU:CD	1:W:61:LYS:HE2	2.09	0.73
1:A:180:LEU:HD12	1:A:181:ALA:N	2.03	0.73
1:I:180:LEU:HD12	1:I:181:ALA:N	2.03	0.73
1:S:142:LEU:HD11	1:S:165:ILE:HD11	1.69	0.73
1:U:34:ILE:HD13	1:U:67:LEU:HD13	1.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:43:VAL:O	1:V:44:MET:CB	2.36	0.73
1:B:43:VAL:O	1:B:44:MET:CB	2.36	0.73
1:B:180:LEU:HD12	1:B:181:ALA:N	2.03	0.73
1:D:223:PHE:CD1	1:D:259:GLU:HG2	2.24	0.73
1:F:43:VAL:O	1:F:44:MET:CB	2.36	0.73
1:G:142:LEU:HD11	1:G:165:ILE:CD1	2.19	0.73
1:S:223:PHE:CD1	1:S:259:GLU:HG2	2.24	0.73
1:V:142:LEU:HD11	1:V:165:ILE:CD1	2.19	0.73
1:W:34:ILE:HD13	1:W:67:LEU:HD13	1.71	0.73
1:W:223:PHE:CD1	1:W:259:GLU:HG2	2.24	0.73
1:A:167:GLU:CD	1:C:61:LYS:HE2	2.09	0.72
1:C:61:LYS:O	1:C:64:ILE:HG22	1.90	0.72
1:D:180:LEU:HD12	1:D:181:ALA:N	2.03	0.72
1:K:142:LEU:HD11	1:K:165:ILE:CD1	2.19	0.72
1:K:180:LEU:HD12	1:K:181:ALA:N	2.03	0.72
1:M:223:PHE:CD1	1:M:259:GLU:HG2	2.24	0.72
1:S:34:ILE:HD13	1:S:67:LEU:HD13	1.71	0.72
1:U:142:LEU:HD11	1:U:165:ILE:CD1	2.19	0.72
1:U:208:ILE:CD1	1:U:243:PRO:HD2	2.18	0.72
1:U:287:ILE:HD11	1:W:208:ILE:CD1	2.19	0.72
1:A:39:ARG:HE	1:A:66:THR:CA	2.03	0.72
1:D:290:ARG:CD	1:F:244:ASP:HB2	2.12	0.72
1:L:287:ILE:HD11	1:N:208:ILE:CD1	2.19	0.72
1:P:208:ILE:CD1	1:P:243:PRO:HD2	2.18	0.72
1:R:142:LEU:HD11	1:R:165:ILE:CD1	2.19	0.72
1:A:61:LYS:O	1:A:64:ILE:HG22	1.90	0.72
1:C:142:LEU:HD11	1:C:165:ILE:CD1	2.19	0.72
1:C:287:ILE:HD11	1:E:208:ILE:CD1	2.19	0.72
1:D:244:ASP:OD1	1:D:246:GLN:HG3	1.89	0.72
1:E:43:VAL:O	1:E:44:MET:CB	2.36	0.72
1:E:61:LYS:O	1:E:64:ILE:HG22	1.90	0.72
1:F:142:LEU:HD11	1:F:165:ILE:CD1	2.19	0.72
1:H:244:ASP:OD1	1:H:246:GLN:HG3	1.90	0.72
1:H:287:ILE:HD11	1:J:208:ILE:CD1	2.19	0.72
1:I:34:ILE:HD13	1:I:67:LEU:HD13	1.71	0.72
1:J:39:ARG:HE	1:J:66:THR:CA	2.03	0.72
1:J:167:GLU:CD	1:L:61:LYS:HE2	2.09	0.72
1:P:43:VAL:O	1:P:44:MET:CB	2.36	0.72
1:Q:287:ILE:HD11	1:S:208:ILE:CD1	2.19	0.72
1:S:142:LEU:HD11	1:S:165:ILE:CD1	2.19	0.72
1:S:244:ASP:OD1	1:S:246:GLN:HG3	1.90	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:34:ILE:HD13	1:V:67:LEU:HD13	1.71	0.72
1:W:244:ASP:OD1	1:W:246:GLN:HG3	1.89	0.72
1:B:43:VAL:O	1:B:44:MET:HB3	1.90	0.72
1:B:223:PHE:CD1	1:B:259:GLU:HG2	2.24	0.72
1:C:142:LEU:HD11	1:C:165:ILE:HD11	1.69	0.72
1:E:43:VAL:O	1:E:44:MET:HB3	1.90	0.72
1:F:301:GLY:H	1:F:335:ARG:HG3	1.55	0.72
1:G:61:LYS:O	1:G:64:ILE:HG22	1.90	0.72
1:G:290:ARG:CD	1:I:244:ASP:HB2	2.12	0.72
1:H:34:ILE:HD13	1:H:67:LEU:HD13	1.71	0.72
1:H:142:LEU:HD11	1:H:165:ILE:HD11	1.69	0.72
1:N:142:LEU:HD11	1:N:165:ILE:CD1	2.19	0.72
1:P:39:ARG:HE	1:P:66:THR:CA	2.03	0.72
1:Q:244:ASP:OD1	1:Q:246:GLN:HG3	1.90	0.72
1:V:37:ARG:HG3	1:V:38:PRO:CD	2.15	0.72
1:A:37:ARG:HG3	1:A:38:PRO:CD	2.15	0.72
1:A:223:PHE:CD1	1:A:259:GLU:HG2	2.24	0.72
1:D:37:ARG:HG3	1:D:38:PRO:CD	2.16	0.72
1:D:39:ARG:HE	1:D:66:THR:HA	1.52	0.72
1:D:142:LEU:HD11	1:D:165:ILE:CD1	2.19	0.72
1:D:301:GLY:H	1:D:335:ARG:HG3	1.55	0.72
1:G:34:ILE:HD13	1:G:67:LEU:HD13	1.71	0.72
1:G:43:VAL:O	1:G:44:MET:HB3	1.90	0.72
1:I:61:LYS:O	1:I:64:ILE:HG22	1.90	0.72
1:J:244:ASP:OD1	1:J:246:GLN:HG3	1.90	0.72
1:K:34:ILE:HD13	1:K:67:LEU:HD13	1.71	0.72
1:K:167:GLU:CD	1:M:61:LYS:HE2	2.09	0.72
1:K:223:PHE:CD1	1:K:259:GLU:HG2	2.24	0.72
1:L:39:ARG:HE	1:L:66:THR:CA	2.03	0.72
1:M:142:LEU:HD11	1:M:165:ILE:CD1	2.19	0.72
1:N:301:GLY:H	1:N:335:ARG:HG3	1.55	0.72
1:O:301:GLY:H	1:O:335:ARG:HG3	1.55	0.72
1:P:167:GLU:CD	1:R:61:LYS:HE2	2.09	0.72
1:R:39:ARG:HE	1:R:66:THR:CA	2.03	0.72
1:S:167:GLU:CD	1:U:61:LYS:HE2	2.09	0.72
1:T:43:VAL:O	1:T:44:MET:CB	2.36	0.72
1:U:39:ARG:HE	1:U:66:THR:CA	2.03	0.72
1:U:223:PHE:CD1	1:U:259:GLU:HG2	2.24	0.72
1:W:142:LEU:HD11	1:W:165:ILE:CD1	2.19	0.72
1:W:301:GLY:H	1:W:335:ARG:HG3	1.55	0.72
1:B:39:ARG:HE	1:B:66:THR:HA	1.52	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:301:GLY:H	1:C:335:ARG:HG3	1.55	0.72
1:D:43:VAL:O	1:D:44:MET:CB	2.36	0.72
1:D:43:VAL:O	1:D:44:MET:HB3	1.90	0.72
1:D:167:GLU:CD	1:F:61:LYS:HE2	2.09	0.72
1:F:167:GLU:CD	1:H:61:LYS:HE2	2.09	0.72
1:H:142:LEU:HD11	1:H:165:ILE:CD1	2.19	0.72
1:H:236:LEU:HD13	1:H:251:GLY:HA2	1.72	0.72
1:I:43:VAL:O	1:I:44:MET:CB	2.36	0.72
1:J:208:ILE:CD1	1:J:243:PRO:HD2	2.18	0.72
1:L:301:GLY:H	1:L:335:ARG:HG3	1.55	0.72
1:N:39:ARG:HE	1:N:66:THR:CA	2.03	0.72
1:O:142:LEU:HD11	1:O:165:ILE:CD1	2.19	0.72
1:O:244:ASP:OD1	1:O:246:GLN:HG3	1.89	0.72
1:Q:34:ILE:HD13	1:Q:67:LEU:HD13	1.71	0.72
1:R:167:GLU:CD	1:T:61:LYS:HE2	2.09	0.72
1:T:39:ARG:HE	1:T:66:THR:CA	2.03	0.72
1:A:287:ILE:HD11	1:C:208:ILE:CD1	2.19	0.72
1:A:290:ARG:CD	1:C:244:ASP:HB2	2.12	0.72
1:B:142:LEU:HD11	1:B:165:ILE:CD1	2.19	0.72
1:C:43:VAL:O	1:C:44:MET:HB3	1.90	0.72
1:C:167:GLU:CD	1:E:61:LYS:HE2	2.09	0.72
1:F:39:ARG:HE	1:F:66:THR:HA	1.52	0.72
1:F:236:LEU:HD13	1:F:251:GLY:HA2	1.72	0.72
1:H:43:VAL:O	1:H:44:MET:HB3	1.90	0.72
1:K:43:VAL:O	1:K:44:MET:CB	2.36	0.72
1:K:61:LYS:O	1:K:64:ILE:HG22	1.90	0.72
1:M:43:VAL:O	1:M:44:MET:CB	2.36	0.72
1:M:301:GLY:H	1:M:335:ARG:HG3	1.55	0.72
1:N:167:GLU:CD	1:P:61:LYS:HE2	2.09	0.72
1:O:43:VAL:O	1:O:44:MET:CB	2.36	0.72
1:T:167:GLU:CD	1:V:61:LYS:HE2	2.09	0.72
1:U:301:GLY:H	1:U:335:ARG:HG3	1.55	0.72
1:E:34:ILE:HD13	1:E:67:LEU:HD13	1.71	0.72
1:E:39:ARG:HE	1:E:66:THR:HA	1.52	0.72
1:E:301:GLY:H	1:E:335:ARG:HG3	1.55	0.72
1:I:39:ARG:HE	1:I:66:THR:CA	2.03	0.72
1:I:43:VAL:O	1:I:44:MET:HB3	1.90	0.72
1:I:142:LEU:HD11	1:I:165:ILE:CD1	2.19	0.72
1:I:223:PHE:CD1	1:I:259:GLU:HG2	2.24	0.72
1:L:244:ASP:OD1	1:L:246:GLN:HG3	1.90	0.72
1:M:61:LYS:O	1:M:64:ILE:HG22	1.90	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:236:LEU:HD13	1:M:251:GLY:HA2	1.72	0.72
1:P:43:VAL:O	1:P:44:MET:HB3	1.90	0.72
1:Q:43:VAL:O	1:Q:44:MET:CB	2.36	0.72
1:S:39:ARG:HE	1:S:66:THR:CA	2.03	0.72
1:S:43:VAL:O	1:S:44:MET:HB3	1.90	0.72
1:S:287:ILE:HD11	1:U:208:ILE:CD1	2.19	0.72
1:S:301:GLY:H	1:S:335:ARG:HG3	1.55	0.72
1:W:61:LYS:O	1:W:64:ILE:HG22	1.90	0.72
1:C:39:ARG:HE	1:C:66:THR:CA	2.03	0.72
1:C:223:PHE:CD1	1:C:259:GLU:HG2	2.24	0.72
1:D:236:LEU:HD13	1:D:251:GLY:HA2	1.72	0.72
1:G:43:VAL:O	1:G:44:MET:CB	2.36	0.72
1:H:39:ARG:HE	1:H:66:THR:CA	2.03	0.72
1:H:43:VAL:O	1:H:44:MET:CB	2.36	0.72
1:J:236:LEU:HD13	1:J:251:GLY:HA2	1.72	0.72
1:L:167:GLU:CD	1:N:61:LYS:HE2	2.09	0.72
1:O:236:LEU:HD13	1:O:251:GLY:HA2	1.72	0.72
1:Q:142:LEU:HD11	1:Q:165:ILE:CD1	2.19	0.72
1:A:34:ILE:HD13	1:A:67:LEU:HD13	1.71	0.72
1:C:34:ILE:HD13	1:C:67:LEU:HD13	1.71	0.72
1:F:244:ASP:OD1	1:F:246:GLN:HG3	1.90	0.72
1:G:39:ARG:HE	1:G:66:THR:CA	2.03	0.72
1:K:43:VAL:O	1:K:44:MET:HB3	1.90	0.72
1:K:236:LEU:HD13	1:K:251:GLY:HA2	1.72	0.72
1:L:34:ILE:CA	1:L:54:VAL:HG11	2.20	0.72
1:M:34:ILE:HD13	1:M:67:LEU:HD13	1.71	0.72
1:Q:167:GLU:CD	1:S:61:LYS:HE2	2.09	0.72
1:A:34:ILE:CA	1:A:54:VAL:HG11	2.20	0.71
1:A:301:GLY:H	1:A:335:ARG:HG3	1.55	0.71
1:B:39:ARG:HE	1:B:66:THR:CA	2.03	0.71
1:B:167:GLU:CD	1:D:61:LYS:HE2	2.09	0.71
1:D:61:LYS:O	1:D:64:ILE:HG22	1.90	0.71
1:E:167:GLU:CD	1:G:61:LYS:HE2	2.09	0.71
1:F:61:LYS:O	1:F:64:ILE:HG22	1.90	0.71
1:I:208:ILE:CD1	1:I:243:PRO:HD2	2.18	0.71
1:K:39:ARG:HE	1:K:66:THR:CA	2.03	0.71
1:M:43:VAL:O	1:M:44:MET:HB3	1.90	0.71
1:O:61:LYS:O	1:O:64:ILE:HG22	1.90	0.71
1:P:301:GLY:H	1:P:335:ARG:HG3	1.55	0.71
1:Q:301:GLY:H	1:Q:335:ARG:HG3	1.55	0.71
1:R:61:LYS:O	1:R:64:ILE:HG22	1.89	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:61:LYS:O	1:U:64:ILE:HG22	1.90	0.71
1:V:61:LYS:O	1:V:64:ILE:HG22	1.90	0.71
1:V:301:GLY:H	1:V:335:ARG:HG3	1.55	0.71
1:W:39:ARG:HE	1:W:66:THR:CA	2.03	0.71
1:A:43:VAL:O	1:A:44:MET:HB3	1.90	0.71
1:B:61:LYS:O	1:B:64:ILE:HG22	1.90	0.71
1:G:223:PHE:CD1	1:G:259:GLU:HG2	2.24	0.71
1:H:290:ARG:CD	1:J:244:ASP:HB2	2.12	0.71
1:J:287:ILE:HD11	1:L:208:ILE:CD1	2.19	0.71
1:O:43:VAL:O	1:O:44:MET:HB3	1.90	0.71
1:R:43:VAL:O	1:R:44:MET:CB	2.36	0.71
1:T:34:ILE:HD13	1:T:67:LEU:HD13	1.71	0.71
1:W:34:ILE:CA	1:W:54:VAL:HG11	2.20	0.71
1:H:167:GLU:CD	1:J:61:LYS:HE2	2.09	0.71
1:I:143:TYR:CD2	1:I:346:LEU:HD13	2.26	0.71
1:N:43:VAL:O	1:N:44:MET:HB3	1.90	0.71
1:T:37:ARG:HG3	1:T:38:PRO:CD	2.15	0.71
1:B:37:ARG:HG3	1:B:38:PRO:CD	2.16	0.71
1:B:301:GLY:H	1:B:335:ARG:HG3	1.55	0.71
1:D:39:ARG:HE	1:D:66:THR:CA	2.03	0.71
1:E:223:PHE:CD1	1:E:259:GLU:HG2	2.24	0.71
1:J:34:ILE:CA	1:J:54:VAL:HG11	2.20	0.71
1:J:34:ILE:HD13	1:J:67:LEU:HD13	1.71	0.71
1:K:143:TYR:CD2	1:K:346:LEU:HD13	2.26	0.71
1:Q:61:LYS:O	1:Q:64:ILE:HG22	1.90	0.71
1:V:39:ARG:HE	1:V:66:THR:CA	2.03	0.71
1:F:43:VAL:O	1:F:44:MET:HB3	1.90	0.71
1:K:34:ILE:CA	1:K:54:VAL:HG11	2.20	0.71
1:L:236:LEU:HD13	1:L:251:GLY:HA2	1.72	0.71
1:M:244:ASP:OD1	1:M:246:GLN:HG3	1.90	0.71
1:O:34:ILE:HD13	1:O:67:LEU:HD13	1.71	0.71
1:P:143:TYR:CD2	1:P:346:LEU:HD13	2.26	0.71
1:Q:39:ARG:HE	1:Q:66:THR:CA	2.03	0.71
1:R:143:TYR:CD2	1:R:346:LEU:HD13	2.26	0.71
1:U:34:ILE:CA	1:U:54:VAL:HG11	2.20	0.71
1:V:43:VAL:O	1:V:44:MET:HB3	1.90	0.71
1:B:236:LEU:HD13	1:B:251:GLY:HA2	1.72	0.71
1:B:244:ASP:OD1	1:B:246:GLN:HG3	1.89	0.71
1:E:244:ASP:OD1	1:E:246:GLN:HG3	1.89	0.71
1:F:34:ILE:CA	1:F:54:VAL:HG11	2.20	0.71
1:I:34:ILE:CA	1:I:54:VAL:HG11	2.20	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:236:LEU:HD13	1:I:251:GLY:HA2	1.72	0.71
1:L:61:LYS:O	1:L:64:ILE:HG22	1.90	0.71
1:Q:43:VAL:O	1:Q:44:MET:HB3	1.90	0.71
1:Q:236:LEU:HD13	1:Q:251:GLY:HA2	1.72	0.71
1:S:43:VAL:O	1:S:44:MET:CB	2.36	0.71
1:T:61:LYS:O	1:T:64:ILE:HG22	1.90	0.71
1:T:301:GLY:H	1:T:335:ARG:HG3	1.55	0.71
1:U:244:ASP:OD1	1:U:246:GLN:HG3	1.90	0.71
1:A:244:ASP:OD1	1:A:246:GLN:HG3	1.90	0.71
1:G:143:TYR:CD2	1:G:346:LEU:HD13	2.26	0.71
1:H:301:GLY:H	1:H:335:ARG:HG3	1.55	0.71
1:L:290:ARG:CD	1:N:244:ASP:HB2	2.12	0.71
1:M:39:ARG:HE	1:M:66:THR:CA	2.03	0.71
1:M:143:TYR:CD2	1:M:346:LEU:HD13	2.26	0.71
1:N:143:TYR:CD2	1:N:346:LEU:HD13	2.26	0.71
1:S:61:LYS:O	1:S:64:ILE:HG22	1.90	0.71
1:V:143:TYR:CD2	1:V:346:LEU:HD13	2.26	0.71
1:W:39:ARG:HE	1:W:66:THR:HA	1.52	0.71
1:B:34:ILE:CA	1:B:54:VAL:HG11	2.20	0.71
1:G:301:GLY:H	1:G:335:ARG:HG3	1.55	0.71
1:K:301:GLY:H	1:K:335:ARG:HG3	1.55	0.71
1:P:34:ILE:CA	1:P:54:VAL:HG11	2.20	0.71
1:R:34:ILE:CA	1:R:54:VAL:HG11	2.20	0.71
1:R:34:ILE:HD13	1:R:67:LEU:HD13	1.71	0.71
1:T:143:TYR:CD2	1:T:346:LEU:HD13	2.26	0.71
1:T:208:ILE:CD1	1:T:243:PRO:HD2	2.18	0.71
1:T:244:ASP:OD1	1:T:246:GLN:HG3	1.89	0.71
1:V:244:ASP:OD1	1:V:246:GLN:HG3	1.89	0.71
1:B:143:TYR:CD2	1:B:346:LEU:HD13	2.26	0.71
1:C:244:ASP:OD1	1:C:246:GLN:HG3	1.89	0.71
1:E:39:ARG:HE	1:E:66:THR:CA	2.03	0.71
1:H:61:LYS:O	1:H:64:ILE:HG22	1.90	0.71
1:J:301:GLY:H	1:J:335:ARG:HG3	1.55	0.71
1:N:61:LYS:O	1:N:64:ILE:HG22	1.90	0.71
1:T:43:VAL:O	1:T:44:MET:HB3	1.90	0.71
1:W:43:VAL:O	1:W:44:MET:HB3	1.90	0.71
1:W:236:LEU:HD13	1:W:251:GLY:HA2	1.72	0.71
1:N:34:ILE:CA	1:N:54:VAL:HG11	2.20	0.71
1:R:43:VAL:O	1:R:44:MET:HB3	1.90	0.71
1:S:208:ILE:CD1	1:S:243:PRO:HD2	2.18	0.71
1:U:43:VAL:O	1:U:44:MET:HB3	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:208:ILE:CD1	1:B:243:PRO:HD2	2.18	0.70
1:C:34:ILE:CA	1:C:54:VAL:HG11	2.20	0.70
1:D:143:TYR:CD2	1:D:346:LEU:HD13	2.26	0.70
1:G:236:LEU:HD13	1:G:251:GLY:HA2	1.72	0.70
1:G:244:ASP:OD1	1:G:246:GLN:HG3	1.90	0.70
1:M:290:ARG:CD	1:O:244:ASP:HB2	2.12	0.70
1:P:61:LYS:O	1:P:64:ILE:HG22	1.90	0.70
1:S:290:ARG:CD	1:U:244:ASP:HB2	2.12	0.70
1:A:143:TYR:CD2	1:A:346:LEU:HD13	2.26	0.70
1:E:143:TYR:CD2	1:E:346:LEU:HD13	2.26	0.70
1:F:39:ARG:HE	1:F:66:THR:CA	2.03	0.70
1:G:34:ILE:CA	1:G:54:VAL:HG11	2.20	0.70
1:M:34:ILE:CA	1:M:54:VAL:HG11	2.20	0.70
1:T:34:ILE:CA	1:T:54:VAL:HG11	2.20	0.70
1:W:143:TYR:CD2	1:W:346:LEU:HD13	2.26	0.70
1:C:236:LEU:CD1	1:C:237:GLU:HG2	2.22	0.70
1:E:169:TYR:CE2	1:G:40:HIS:HB3	2.27	0.70
1:I:236:LEU:CD1	1:I:237:GLU:HG2	2.22	0.70
1:J:61:LYS:O	1:J:64:ILE:HG22	1.90	0.70
1:K:169:TYR:CE2	1:M:40:HIS:HB3	2.27	0.70
1:K:244:ASP:OD1	1:K:246:GLN:HG3	1.90	0.70
1:L:34:ILE:HD13	1:L:67:LEU:HD13	1.71	0.70
1:N:236:LEU:HD13	1:N:251:GLY:HA2	1.72	0.70
1:N:244:ASP:OD1	1:N:246:GLN:HG3	1.90	0.70
1:P:244:ASP:OD1	1:P:246:GLN:HG3	1.89	0.70
1:Q:34:ILE:CA	1:Q:54:VAL:HG11	2.20	0.70
1:T:169:TYR:CE2	1:V:40:HIS:HB3	2.27	0.70
1:V:236:LEU:CD1	1:V:237:GLU:HG2	2.22	0.70
1:B:169:TYR:CE2	1:D:40:HIS:HB3	2.27	0.70
1:E:34:ILE:CA	1:E:54:VAL:HG11	2.20	0.70
1:F:143:TYR:CD2	1:F:346:LEU:HD13	2.26	0.70
1:H:236:LEU:CD1	1:H:237:GLU:HG2	2.22	0.70
1:L:143:TYR:CD2	1:L:346:LEU:HD13	2.26	0.70
1:L:236:LEU:CD1	1:L:237:GLU:HG2	2.22	0.70
1:M:208:ILE:CD1	1:M:243:PRO:HD2	2.18	0.70
1:P:236:LEU:CD1	1:P:237:GLU:HG2	2.22	0.70
1:R:169:TYR:CE2	1:T:40:HIS:HB3	2.27	0.70
1:S:236:LEU:HD13	1:S:251:GLY:HA2	1.72	0.70
1:U:143:TYR:CD2	1:U:346:LEU:HD13	2.26	0.70
1:V:34:ILE:CA	1:V:54:VAL:HG11	2.20	0.70
1:D:34:ILE:CA	1:D:54:VAL:HG11	2.20	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:37:ARG:CG	1:F:38:PRO:HD2	2.20	0.70
1:H:34:ILE:CA	1:H:54:VAL:HG11	2.20	0.70
1:I:37:ARG:CG	1:I:38:PRO:HD2	2.20	0.70
1:I:169:TYR:CE2	1:K:40:HIS:HB3	2.27	0.70
1:L:43:VAL:O	1:L:44:MET:HB3	1.90	0.70
1:M:169:TYR:CE2	1:O:40:HIS:HB3	2.27	0.70
1:P:34:ILE:HD13	1:P:67:LEU:HD13	1.71	0.70
1:U:236:LEU:HD13	1:U:251:GLY:HA2	1.72	0.70
1:A:169:TYR:CE2	1:C:40:HIS:HB3	2.27	0.70
1:D:169:TYR:CE2	1:F:40:HIS:HB3	2.27	0.70
1:D:236:LEU:CD1	1:D:237:GLU:HG2	2.22	0.70
1:I:244:ASP:OD1	1:I:246:GLN:HG3	1.90	0.70
1:J:43:VAL:O	1:J:44:MET:HB3	1.90	0.70
1:M:37:ARG:CG	1:M:38:PRO:HD2	2.20	0.70
1:M:236:LEU:CD1	1:M:237:GLU:HG2	2.22	0.70
1:O:39:ARG:HE	1:O:66:THR:CA	2.03	0.70
1:O:143:TYR:CD2	1:O:346:LEU:HD13	2.26	0.70
1:U:236:LEU:CD1	1:U:237:GLU:HG2	2.22	0.70
1:C:39:ARG:HE	1:C:66:THR:HA	1.52	0.70
1:C:143:TYR:CD2	1:C:346:LEU:HD13	2.26	0.70
1:E:236:LEU:HD13	1:E:251:GLY:HA2	1.72	0.70
1:H:208:ILE:CD1	1:H:243:PRO:HD2	2.18	0.70
1:R:236:LEU:CD1	1:R:237:GLU:HG2	2.22	0.70
1:R:244:ASP:OD1	1:R:246:GLN:HG3	1.90	0.70
1:S:143:TYR:CD2	1:S:346:LEU:HD13	2.26	0.70
1:A:236:LEU:HD13	1:A:251:GLY:HA2	1.72	0.70
1:C:169:TYR:CE2	1:E:40:HIS:HB3	2.27	0.70
1:J:143:TYR:CE1	1:L:45:VAL:HG21	2.27	0.70
1:O:236:LEU:CD1	1:O:237:GLU:HG2	2.22	0.70
1:P:143:TYR:CE1	1:R:45:VAL:HG21	2.27	0.70
1:P:169:TYR:CE2	1:R:40:HIS:HB3	2.27	0.70
1:R:301:GLY:H	1:R:335:ARG:HG3	1.55	0.70
1:S:34:ILE:CA	1:S:54:VAL:HG11	2.20	0.70
1:A:143:TYR:CE1	1:C:45:VAL:HG21	2.27	0.70
1:B:290:ARG:CD	1:D:244:ASP:HB2	2.12	0.70
1:C:236:LEU:HD13	1:C:251:GLY:HA2	1.72	0.70
1:K:34:ILE:HG22	1:K:35:VAL:N	2.07	0.70
1:Q:236:LEU:CD1	1:Q:237:GLU:HG2	2.22	0.70
1:U:143:TYR:CE1	1:W:45:VAL:HG21	2.27	0.70
1:C:208:ILE:CD1	1:C:243:PRO:HD2	2.18	0.70
1:E:143:TYR:CE1	1:G:45:VAL:HG21	2.27	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:169:TYR:CE2	1:H:40:HIS:HB3	2.27	0.70
1:G:34:ILE:HG22	1:G:35:VAL:N	2.07	0.70
1:G:169:TYR:CE2	1:I:40:HIS:HB3	2.27	0.70
1:G:236:LEU:CD1	1:G:237:GLU:HG2	2.22	0.70
1:H:143:TYR:CD2	1:H:346:LEU:HD13	2.26	0.70
1:I:301:GLY:H	1:I:335:ARG:HG3	1.55	0.70
1:N:34:ILE:HG22	1:N:35:VAL:N	2.07	0.70
1:N:34:ILE:HD13	1:N:67:LEU:HD13	1.71	0.70
1:O:34:ILE:CA	1:O:54:VAL:HG11	2.20	0.70
1:O:143:TYR:CE1	1:Q:45:VAL:HG21	2.27	0.70
1:Q:37:ARG:CG	1:Q:38:PRO:HD2	2.20	0.70
1:S:236:LEU:CD1	1:S:237:GLU:HG2	2.22	0.70
1:A:37:ARG:CG	1:A:38:PRO:HD2	2.20	0.69
1:C:34:ILE:HG22	1:C:35:VAL:N	2.07	0.69
1:D:143:TYR:CE1	1:F:45:VAL:HG21	2.27	0.69
1:E:236:LEU:CD1	1:E:237:GLU:HG2	2.22	0.69
1:P:236:LEU:HD13	1:P:251:GLY:HA2	1.72	0.69
1:S:143:TYR:CE1	1:U:45:VAL:HG21	2.27	0.69
1:V:34:ILE:HG22	1:V:35:VAL:N	2.07	0.69
1:H:143:TYR:CE1	1:J:45:VAL:HG21	2.27	0.69
1:N:208:ILE:CD1	1:N:243:PRO:HD2	2.18	0.69
1:O:169:TYR:CE2	1:Q:40:HIS:HB3	2.27	0.69
1:H:169:TYR:CE2	1:J:40:HIS:HB3	2.27	0.69
1:J:34:ILE:HG22	1:J:35:VAL:N	2.07	0.69
1:Q:143:TYR:CD2	1:Q:346:LEU:HD13	2.26	0.69
1:R:34:ILE:HG22	1:R:35:VAL:N	2.07	0.69
1:R:37:ARG:CG	1:R:38:PRO:HD2	2.20	0.69
1:U:50:LYS:HG3	1:U:53:TYR:CE2	2.28	0.69
1:A:236:LEU:CD1	1:A:237:GLU:HG2	2.22	0.69
1:B:236:LEU:CD1	1:B:237:GLU:HG2	2.22	0.69
1:E:34:ILE:HG22	1:E:35:VAL:N	2.07	0.69
1:J:143:TYR:CD2	1:J:346:LEU:HD13	2.26	0.69
1:K:143:TYR:CE1	1:M:45:VAL:HG21	2.27	0.69
1:K:236:LEU:CD1	1:K:237:GLU:HG2	2.22	0.69
1:L:143:TYR:CE1	1:N:45:VAL:HG21	2.27	0.69
1:N:169:TYR:CE2	1:P:40:HIS:HB3	2.27	0.69
1:O:34:ILE:HG22	1:O:35:VAL:N	2.07	0.69
1:T:236:LEU:CD1	1:T:237:GLU:HG2	2.22	0.69
1:F:50:LYS:HG3	1:F:53:TYR:CE2	2.28	0.69
1:H:50:LYS:HG3	1:H:53:TYR:CE2	2.28	0.69
1:H:58:ALA:CB	1:H:65:LEU:HD22	2.23	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:50:LYS:HG3	1:J:53:TYR:CE2	2.28	0.69
1:J:169:TYR:CE2	1:L:40:HIS:HB3	2.27	0.69
1:Q:50:LYS:HG3	1:Q:53:TYR:CE2	2.28	0.69
1:Q:143:TYR:CE1	1:S:45:VAL:HG21	2.27	0.69
1:R:58:ALA:CB	1:R:65:LEU:HD22	2.23	0.69
1:R:236:LEU:HD13	1:R:251:GLY:HA2	1.72	0.69
1:S:50:LYS:HG3	1:S:53:TYR:CE2	2.28	0.69
1:A:50:LYS:HG3	1:A:53:TYR:CE2	2.28	0.69
1:B:50:LYS:HG3	1:B:53:TYR:CE2	2.28	0.69
1:D:50:LYS:HG3	1:D:53:TYR:CE2	2.28	0.69
1:G:37:ARG:CG	1:G:38:PRO:HD2	2.20	0.69
1:G:58:ALA:CB	1:G:65:LEU:HD22	2.23	0.69
1:L:50:LYS:HG3	1:L:53:TYR:CE2	2.28	0.69
1:N:50:LYS:HG3	1:N:53:TYR:CE2	2.28	0.69
1:N:143:TYR:CE1	1:P:45:VAL:HG21	2.27	0.69
1:S:58:ALA:CB	1:S:65:LEU:HD22	2.23	0.69
1:T:143:TYR:CE1	1:V:45:VAL:HG21	2.27	0.69
1:U:169:TYR:CE2	1:W:40:HIS:HB3	2.27	0.69
1:W:50:LYS:HG3	1:W:53:TYR:CE2	2.28	0.69
1:A:58:ALA:CB	1:A:65:LEU:HD22	2.23	0.69
1:A:208:ILE:CD1	1:A:243:PRO:HD2	2.18	0.69
1:J:236:LEU:CD1	1:J:237:GLU:HG2	2.22	0.69
1:N:58:ALA:CB	1:N:65:LEU:HD22	2.23	0.69
1:N:236:LEU:CD1	1:N:237:GLU:HG2	2.22	0.69
1:P:50:LYS:HG3	1:P:53:TYR:CE2	2.28	0.69
1:U:34:ILE:HG22	1:U:35:VAL:N	2.07	0.69
1:B:58:ALA:CB	1:B:65:LEU:HD22	2.23	0.69
1:B:143:TYR:CE1	1:D:45:VAL:HG21	2.27	0.69
1:C:50:LYS:HG3	1:C:53:TYR:CE2	2.28	0.69
1:C:58:ALA:CB	1:C:65:LEU:HD22	2.23	0.69
1:C:143:TYR:CE1	1:E:45:VAL:HG21	2.27	0.69
1:D:34:ILE:HG22	1:D:35:VAL:N	2.07	0.69
1:D:58:ALA:CB	1:D:65:LEU:HD22	2.23	0.69
1:E:50:LYS:HG3	1:E:53:TYR:CE2	2.28	0.69
1:F:143:TYR:CE1	1:H:45:VAL:HG21	2.27	0.69
1:F:236:LEU:CD1	1:F:237:GLU:HG2	2.22	0.69
1:G:143:TYR:CE1	1:I:45:VAL:HG21	2.27	0.69
1:I:34:ILE:HG22	1:I:35:VAL:N	2.07	0.69
1:I:301:GLY:N	1:I:335:ARG:HG3	2.08	0.69
1:K:50:LYS:HG3	1:K:53:TYR:CE2	2.28	0.69
1:K:301:GLY:N	1:K:335:ARG:HG3	2.08	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:169:TYR:CE2	1:N:40:HIS:HB3	2.27	0.69
1:M:50:LYS:HG3	1:M:53:TYR:CE2	2.28	0.69
1:M:301:GLY:N	1:M:335:ARG:HG3	2.08	0.69
1:N:208:ILE:HD11	1:N:243:PRO:CG	2.23	0.69
1:O:50:LYS:HG3	1:O:53:TYR:CE2	2.28	0.69
1:P:208:ILE:HD11	1:P:243:PRO:CG	2.23	0.69
1:P:301:GLY:N	1:P:335:ARG:HG3	2.08	0.69
1:R:143:TYR:CE1	1:T:45:VAL:HG21	2.27	0.69
1:S:34:ILE:HG22	1:S:35:VAL:N	2.07	0.69
1:S:169:TYR:CE2	1:U:40:HIS:HB3	2.27	0.69
1:S:301:GLY:N	1:S:335:ARG:HG3	2.08	0.69
1:T:50:LYS:HG3	1:T:53:TYR:CE2	2.28	0.69
1:T:236:LEU:HD13	1:T:251:GLY:HA2	1.72	0.69
1:U:58:ALA:CB	1:U:65:LEU:HD22	2.23	0.69
1:V:236:LEU:HD13	1:V:251:GLY:HA2	1.72	0.69
1:W:34:ILE:HG22	1:W:35:VAL:N	2.07	0.69
1:W:236:LEU:CD1	1:W:237:GLU:HG2	2.22	0.69
1:D:22:ALA:HB1	1:D:348:SER:HB3	1.75	0.69
1:D:301:GLY:N	1:D:335:ARG:HG3	2.08	0.69
1:H:22:ALA:HB1	1:H:348:SER:HB3	1.75	0.69
1:L:58:ALA:CB	1:L:65:LEU:HD22	2.23	0.69
1:L:208:ILE:HD11	1:L:243:PRO:CG	2.23	0.69
1:M:58:ALA:CB	1:M:65:LEU:HD22	2.23	0.69
1:R:50:LYS:HG3	1:R:53:TYR:CE2	2.28	0.69
1:A:34:ILE:HG22	1:A:35:VAL:N	2.07	0.69
1:G:50:LYS:HG3	1:G:53:TYR:CE2	2.28	0.69
1:I:50:LYS:HG3	1:I:53:TYR:CE2	2.28	0.69
1:I:143:TYR:CE1	1:K:45:VAL:HG21	2.27	0.69
1:O:22:ALA:HB1	1:O:348:SER:HB3	1.75	0.69
1:O:58:ALA:CB	1:O:65:LEU:HD22	2.23	0.69
1:P:290:ARG:CD	1:R:244:ASP:HB2	2.12	0.69
1:Q:169:TYR:CE2	1:S:40:HIS:HB3	2.27	0.69
1:V:50:LYS:HG3	1:V:53:TYR:CE2	2.28	0.69
1:W:208:ILE:HD11	1:W:243:PRO:CG	2.23	0.69
1:A:301:GLY:N	1:A:335:ARG:HG3	2.08	0.68
1:E:58:ALA:CB	1:E:65:LEU:HD22	2.23	0.68
1:G:301:GLY:N	1:G:335:ARG:HG3	2.08	0.68
1:J:58:ALA:CB	1:J:65:LEU:HD22	2.23	0.68
1:J:173:HIS:CE1	1:K:268:GLY:CA	2.77	0.68
1:J:301:GLY:N	1:J:335:ARG:HG3	2.08	0.68
1:M:7:ALA:HB1	1:M:356:TRP:CH2	2.29	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:208:ILE:HD11	1:O:243:PRO:CG	2.23	0.68
1:R:208:ILE:HD11	1:R:243:PRO:CG	2.23	0.68
1:V:7:ALA:HB1	1:V:356:TRP:CH2	2.29	0.68
1:V:58:ALA:CB	1:V:65:LEU:HD22	2.23	0.68
1:W:58:ALA:CB	1:W:65:LEU:HD22	2.23	0.68
1:F:34:ILE:HG22	1:F:35:VAL:N	2.07	0.68
1:I:7:ALA:HB1	1:I:356:TRP:CH2	2.29	0.68
1:I:58:ALA:CB	1:I:65:LEU:HD22	2.23	0.68
1:M:208:ILE:HD11	1:M:243:PRO:CG	2.23	0.68
1:N:22:ALA:HB1	1:N:348:SER:HB3	1.76	0.68
1:T:58:ALA:CB	1:T:65:LEU:HD22	2.23	0.68
1:B:7:ALA:HB1	1:B:356:TRP:CH2	2.29	0.68
1:C:22:ALA:HB1	1:C:348:SER:HB3	1.75	0.68
1:C:362:TYR:CE1	1:C:367:PRO:HB3	2.28	0.68
1:D:7:ALA:HB1	1:D:356:TRP:CH2	2.29	0.68
1:E:290:ARG:CD	1:G:244:ASP:HB2	2.12	0.68
1:F:173:HIS:CE1	1:G:268:GLY:CA	2.77	0.68
1:H:34:ILE:HG22	1:H:35:VAL:N	2.07	0.68
1:K:7:ALA:HB1	1:K:356:TRP:CH2	2.29	0.68
1:K:208:ILE:HD11	1:K:243:PRO:CG	2.23	0.68
1:N:173:HIS:CE1	1:O:268:GLY:CA	2.77	0.68
1:O:7:ALA:HB1	1:O:356:TRP:CH2	2.29	0.68
1:O:301:GLY:N	1:O:335:ARG:HG3	2.08	0.68
1:R:301:GLY:N	1:R:335:ARG:HG3	2.08	0.68
1:T:7:ALA:HB1	1:T:356:TRP:CH2	2.29	0.68
1:U:208:ILE:HD11	1:U:243:PRO:CG	2.23	0.68
1:C:173:HIS:CE1	1:D:268:GLY:CA	2.77	0.68
1:J:208:ILE:HD11	1:J:243:PRO:CG	2.23	0.68
1:L:34:ILE:HG22	1:L:35:VAL:N	2.07	0.68
1:Q:34:ILE:HG22	1:Q:35:VAL:N	2.07	0.68
1:S:22:ALA:HB1	1:S:348:SER:HB3	1.75	0.68
1:U:22:ALA:HB1	1:U:348:SER:HB3	1.75	0.68
1:A:173:HIS:CE1	1:B:268:GLY:CA	2.77	0.68
1:A:362:TYR:CE1	1:A:367:PRO:HB3	2.28	0.68
1:F:7:ALA:HB1	1:F:356:TRP:CH2	2.29	0.68
1:L:22:ALA:HB1	1:L:348:SER:HB3	1.75	0.68
1:M:143:TYR:CE1	1:O:45:VAL:HG21	2.27	0.68
1:P:58:ALA:CB	1:P:65:LEU:HD22	2.23	0.68
1:Q:208:ILE:HD11	1:Q:243:PRO:CG	2.23	0.68
1:T:301:GLY:N	1:T:335:ARG:HG3	2.08	0.68
1:A:22:ALA:HB1	1:A:348:SER:HB3	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:301:GLY:N	1:B:335:ARG:HG3	2.08	0.68
1:E:208:ILE:HD11	1:E:243:PRO:CG	2.23	0.68
1:E:301:GLY:N	1:E:335:ARG:HG3	2.08	0.68
1:G:7:ALA:HB1	1:G:356:TRP:CH2	2.29	0.68
1:G:208:ILE:HD11	1:G:243:PRO:CG	2.23	0.68
1:G:362:TYR:O	1:G:366:GLY:HA2	1.94	0.68
1:N:38:PRO:CG	1:N:49:GLN:HE22	2.07	0.68
1:R:173:HIS:CE1	1:S:268:GLY:CA	2.77	0.68
1:S:173:HIS:CE1	1:T:268:GLY:CA	2.77	0.68
1:T:34:ILE:HG22	1:T:35:VAL:N	2.07	0.68
1:U:37:ARG:CG	1:U:38:PRO:HD2	2.20	0.68
1:V:301:GLY:N	1:V:335:ARG:HG3	2.08	0.68
1:B:34:ILE:HG22	1:B:35:VAL:N	2.07	0.68
1:C:7:ALA:HB1	1:C:356:TRP:CH2	2.29	0.68
1:C:208:ILE:HD11	1:C:243:PRO:CG	2.23	0.68
1:E:362:TYR:O	1:E:366:GLY:HA2	1.94	0.68
1:F:58:ALA:CB	1:F:65:LEU:HD22	2.23	0.68
1:F:301:GLY:N	1:F:335:ARG:HG3	2.08	0.68
1:H:362:TYR:O	1:H:366:GLY:HA2	1.94	0.68
1:I:22:ALA:HB1	1:I:348:SER:HB3	1.75	0.68
1:J:22:ALA:HB1	1:J:348:SER:HB3	1.75	0.68
1:K:58:ALA:CB	1:K:65:LEU:HD22	2.23	0.68
1:L:38:PRO:CG	1:L:49:GLN:HE22	2.07	0.68
1:O:362:TYR:CE1	1:O:367:PRO:HB3	2.28	0.68
1:P:173:HIS:CE1	1:Q:268:GLY:CA	2.77	0.68
1:T:362:TYR:O	1:T:366:GLY:HA2	1.94	0.68
1:A:7:ALA:HB1	1:A:356:TRP:CH2	2.29	0.68
1:E:7:ALA:HB1	1:E:356:TRP:CH2	2.29	0.68
1:E:173:HIS:CE1	1:F:268:GLY:CA	2.77	0.68
1:G:236:LEU:HD22	1:G:252:ASN:N	2.09	0.68
1:I:236:LEU:HD22	1:I:252:ASN:N	2.09	0.68
1:J:38:PRO:CG	1:J:49:GLN:HE22	2.07	0.68
1:N:301:GLY:N	1:N:335:ARG:HG3	2.08	0.68
1:P:34:ILE:HG22	1:P:35:VAL:N	2.07	0.68
1:P:38:PRO:CG	1:P:49:GLN:HE22	2.07	0.68
1:Q:58:ALA:CB	1:Q:65:LEU:HD22	2.23	0.68
1:Q:301:GLY:N	1:Q:335:ARG:HG3	2.08	0.68
1:Q:362:TYR:O	1:Q:366:GLY:HA2	1.94	0.68
1:R:7:ALA:HB1	1:R:356:TRP:CH2	2.29	0.68
1:S:208:ILE:HD11	1:S:243:PRO:CG	2.23	0.68
1:S:362:TYR:O	1:S:366:GLY:HA2	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:301:GLY:N	1:U:335:ARG:HG3	2.08	0.68
1:A:236:LEU:HD22	1:A:252:ASN:N	2.09	0.68
1:D:110:LEU:HD12	1:D:177:ARG:NH1	2.09	0.68
1:D:362:TYR:O	1:D:366:GLY:HA2	1.94	0.68
1:F:110:LEU:HD12	1:F:177:ARG:NH1	2.09	0.68
1:F:362:TYR:CE1	1:F:367:PRO:HB3	2.28	0.68
1:I:208:ILE:HD11	1:I:243:PRO:CG	2.23	0.68
1:K:110:LEU:HD12	1:K:177:ARG:NH1	2.09	0.68
1:M:34:ILE:HG22	1:M:35:VAL:N	2.07	0.68
1:M:362:TYR:CE1	1:M:367:PRO:HB3	2.28	0.68
1:P:236:LEU:HD22	1:P:252:ASN:N	2.09	0.68
1:Q:362:TYR:CE1	1:Q:367:PRO:HB3	2.28	0.68
1:R:22:ALA:HB1	1:R:348:SER:HB3	1.75	0.68
1:R:236:LEU:HD22	1:R:252:ASN:N	2.09	0.68
1:T:22:ALA:HB1	1:T:348:SER:HB3	1.75	0.68
1:T:208:ILE:HD11	1:T:243:PRO:CG	2.23	0.68
1:A:110:LEU:HD12	1:A:177:ARG:NH1	2.09	0.68
1:B:22:ALA:HB1	1:B:348:SER:HB3	1.75	0.68
1:B:362:TYR:O	1:B:366:GLY:HA2	1.94	0.68
1:D:362:TYR:CE1	1:D:367:PRO:HB3	2.28	0.68
1:E:110:LEU:HD12	1:E:177:ARG:NH1	2.09	0.68
1:H:110:LEU:HD12	1:H:177:ARG:NH1	2.09	0.68
1:H:301:GLY:N	1:H:335:ARG:HG3	2.08	0.68
1:J:37:ARG:CG	1:J:38:PRO:HD2	2.20	0.68
1:L:173:HIS:CE1	1:M:268:GLY:CA	2.77	0.68
1:L:301:GLY:N	1:L:335:ARG:HG3	2.08	0.68
1:M:110:LEU:HD12	1:M:177:ARG:NH1	2.09	0.68
1:P:110:LEU:HD12	1:P:177:ARG:NH1	2.09	0.68
1:Q:22:ALA:HB1	1:Q:348:SER:HB3	1.75	0.68
1:Q:208:ILE:CD1	1:Q:243:PRO:HD2	2.18	0.68
1:R:38:PRO:CG	1:R:49:GLN:HE22	2.07	0.68
1:U:173:HIS:CE1	1:V:268:GLY:CA	2.77	0.68
1:U:362:TYR:O	1:U:366:GLY:HA2	1.94	0.68
1:W:22:ALA:HB1	1:W:348:SER:HB3	1.75	0.68
1:W:362:TYR:O	1:W:366:GLY:HA2	1.94	0.68
1:B:58:ALA:HB1	1:B:65:LEU:CD2	2.24	0.67
1:B:110:LEU:HD12	1:B:177:ARG:NH1	2.09	0.67
1:B:208:ILE:HD11	1:B:243:PRO:CG	2.23	0.67
1:F:34:ILE:HD13	1:F:67:LEU:HD22	1.77	0.67
1:H:7:ALA:HB1	1:H:356:TRP:CH2	2.29	0.67
1:H:362:TYR:CE1	1:H:367:PRO:HB3	2.28	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:362:TYR:O	1:I:366:GLY:HA2	1.94	0.67
1:K:22:ALA:HB1	1:K:348:SER:HB3	1.75	0.67
1:K:236:LEU:HD22	1:K:252:ASN:N	2.09	0.67
1:M:38:PRO:CG	1:M:49:GLN:HE22	2.07	0.67
1:N:236:LEU:HD22	1:N:252:ASN:N	2.09	0.67
1:O:38:PRO:CG	1:O:49:GLN:HE22	2.07	0.67
1:Q:7:ALA:HB1	1:Q:356:TRP:CH2	2.29	0.67
1:T:362:TYR:CE1	1:T:367:PRO:HB3	2.28	0.67
1:V:362:TYR:CE1	1:V:367:PRO:HB3	2.28	0.67
1:C:236:LEU:HD22	1:C:252:ASN:N	2.09	0.67
1:C:301:GLY:N	1:C:335:ARG:HG3	2.08	0.67
1:D:38:PRO:CG	1:D:49:GLN:HE22	2.07	0.67
1:D:58:ALA:HB1	1:D:65:LEU:CD2	2.25	0.67
1:H:208:ILE:HD11	1:H:243:PRO:CG	2.23	0.67
1:K:37:ARG:CG	1:K:38:PRO:HD2	2.20	0.67
1:L:362:TYR:O	1:L:366:GLY:HA2	1.94	0.67
1:O:110:LEU:HD12	1:O:177:ARG:NH1	2.09	0.67
1:P:362:TYR:O	1:P:366:GLY:HA2	1.94	0.67
1:T:143:TYR:O	1:T:143:TYR:CD1	2.48	0.67
1:V:173:HIS:CE1	1:W:268:GLY:CA	2.77	0.67
1:V:362:TYR:O	1:V:366:GLY:HA2	1.94	0.67
1:A:208:ILE:HD11	1:A:243:PRO:CG	2.23	0.67
1:A:362:TYR:O	1:A:366:GLY:HA2	1.94	0.67
1:B:173:HIS:CE1	1:C:268:GLY:CA	2.77	0.67
1:B:236:LEU:HD22	1:B:252:ASN:N	2.09	0.67
1:B:370:VAL:O	1:B:370:VAL:HG13	1.95	0.67
1:E:143:TYR:O	1:E:143:TYR:CD1	2.48	0.67
1:G:58:ALA:HB1	1:G:65:LEU:CD2	2.25	0.67
1:G:208:ILE:CD1	1:G:243:PRO:HD2	2.18	0.67
1:H:38:PRO:CG	1:H:49:GLN:HE22	2.07	0.67
1:I:58:ALA:HB1	1:I:65:LEU:CD2	2.24	0.67
1:I:173:HIS:CE1	1:J:268:GLY:CA	2.77	0.67
1:J:362:TYR:O	1:J:366:GLY:HA2	1.94	0.67
1:L:104:LEU:HB2	1:L:356:TRP:CZ3	2.30	0.67
1:M:22:ALA:HB1	1:M:348:SER:HB3	1.76	0.67
1:N:104:LEU:HB2	1:N:356:TRP:CZ3	2.30	0.67
1:N:362:TYR:O	1:N:366:GLY:HA2	1.94	0.67
1:O:173:HIS:CE1	1:P:268:GLY:CA	2.77	0.67
1:O:362:TYR:O	1:O:366:GLY:HA2	1.94	0.67
1:Q:34:ILE:HD13	1:Q:67:LEU:HD22	1.77	0.67
1:T:110:LEU:HD12	1:T:177:ARG:NH1	2.09	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:34:ILE:HD13	1:U:67:LEU:HD22	1.77	0.67
1:B:38:PRO:CG	1:B:49:GLN:HE22	2.07	0.67
1:E:236:LEU:HD22	1:E:252:ASN:N	2.09	0.67
1:F:58:ALA:HB1	1:F:65:LEU:CD2	2.25	0.67
1:H:34:ILE:HD13	1:H:67:LEU:HD22	1.76	0.67
1:H:173:HIS:CE1	1:I:268:GLY:CA	2.77	0.67
1:I:143:TYR:O	1:I:143:TYR:CD1	2.48	0.67
1:K:104:LEU:HB2	1:K:356:TRP:CZ3	2.30	0.67
1:L:110:LEU:HD12	1:L:177:ARG:NH1	2.09	0.67
1:P:104:LEU:HB2	1:P:356:TRP:CZ3	2.30	0.67
1:P:143:TYR:O	1:P:143:TYR:CD1	2.48	0.67
1:R:362:TYR:CE1	1:R:367:PRO:HB3	2.28	0.67
1:U:370:VAL:O	1:U:370:VAL:HG13	1.95	0.67
1:W:370:VAL:HG13	1:W:370:VAL:O	1.95	0.67
1:B:34:ILE:HD13	1:B:67:LEU:HD22	1.77	0.67
1:C:362:TYR:O	1:C:366:GLY:HA2	1.94	0.67
1:D:34:ILE:HD13	1:D:67:LEU:HD22	1.77	0.67
1:E:58:ALA:HB1	1:E:65:LEU:CD2	2.25	0.67
1:F:208:ILE:CD1	1:F:243:PRO:HD2	2.18	0.67
1:G:22:ALA:HB1	1:G:348:SER:HB3	1.75	0.67
1:I:110:LEU:HD12	1:I:177:ARG:NH1	2.09	0.67
1:J:7:ALA:HB1	1:J:356:TRP:CH2	2.29	0.67
1:J:104:LEU:HB2	1:J:356:TRP:CZ3	2.30	0.67
1:K:58:ALA:HB1	1:K:65:LEU:CD2	2.25	0.67
1:K:362:TYR:CE1	1:K:367:PRO:HB3	2.28	0.67
1:M:58:ALA:HB1	1:M:65:LEU:CD2	2.24	0.67
1:Q:110:LEU:HD12	1:Q:177:ARG:NH1	2.09	0.67
1:R:104:LEU:HB2	1:R:356:TRP:CZ3	2.30	0.67
1:T:38:PRO:CG	1:T:49:GLN:HE22	2.07	0.67
1:V:37:ARG:CG	1:V:38:PRO:HD2	2.20	0.67
1:V:38:PRO:CG	1:V:49:GLN:HE22	2.07	0.67
1:W:7:ALA:HB1	1:W:356:TRP:CH2	2.29	0.67
1:W:34:ILE:HD13	1:W:67:LEU:HD22	1.77	0.67
1:B:362:TYR:CE1	1:B:367:PRO:HB3	2.28	0.67
1:D:37:ARG:CG	1:D:38:PRO:HD2	2.20	0.67
1:F:38:PRO:CG	1:F:49:GLN:HE22	2.07	0.67
1:I:104:LEU:HB2	1:I:356:TRP:CZ3	2.30	0.67
1:J:110:LEU:HD12	1:J:177:ARG:NH1	2.09	0.67
1:J:370:VAL:O	1:J:370:VAL:HG13	1.95	0.67
1:K:38:PRO:CG	1:K:49:GLN:HE22	2.07	0.67
1:K:362:TYR:O	1:K:366:GLY:HA2	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:104:LEU:HB2	1:M:356:TRP:CZ3	2.30	0.67
1:M:370:VAL:O	1:M:370:VAL:HG13	1.95	0.67
1:O:58:ALA:HB1	1:O:65:LEU:CD2	2.25	0.67
1:P:7:ALA:HB1	1:P:356:TRP:CH2	2.29	0.67
1:S:34:ILE:HD13	1:S:67:LEU:HD22	1.77	0.67
1:T:236:LEU:HD22	1:T:252:ASN:N	2.09	0.67
1:U:7:ALA:HB1	1:U:356:TRP:CH2	2.29	0.67
1:V:208:ILE:HD11	1:V:243:PRO:CG	2.23	0.67
1:W:362:TYR:CE1	1:W:367:PRO:HB3	2.28	0.67
1:A:143:TYR:O	1:A:143:TYR:CD1	2.48	0.67
1:D:208:ILE:HD11	1:D:243:PRO:CG	2.23	0.67
1:D:236:LEU:HD22	1:D:252:ASN:N	2.09	0.67
1:F:22:ALA:HB1	1:F:348:SER:HB3	1.75	0.67
1:J:34:ILE:HD13	1:J:67:LEU:HD22	1.77	0.67
1:M:34:ILE:HD13	1:M:67:LEU:HD22	1.77	0.67
1:M:362:TYR:O	1:M:366:GLY:HA2	1.94	0.67
1:O:34:ILE:HD13	1:O:67:LEU:HD22	1.77	0.67
1:Q:58:ALA:HB1	1:Q:65:LEU:CD2	2.24	0.67
1:Q:236:LEU:HD22	1:Q:252:ASN:N	2.09	0.67
1:R:208:ILE:CD1	1:R:243:PRO:HD2	2.18	0.67
1:V:22:ALA:HB1	1:V:348:SER:HB3	1.75	0.67
1:C:38:PRO:CG	1:C:49:GLN:HE22	2.07	0.67
1:D:173:HIS:CE1	1:E:268:GLY:CA	2.77	0.67
1:D:370:VAL:HG13	1:D:370:VAL:O	1.95	0.67
1:E:22:ALA:HB1	1:E:348:SER:HB3	1.75	0.67
1:G:104:LEU:HB2	1:G:356:TRP:CZ3	2.30	0.67
1:G:173:HIS:CE1	1:H:268:GLY:CA	2.77	0.67
1:H:104:LEU:HB2	1:H:356:TRP:CZ3	2.30	0.67
1:J:362:TYR:CE1	1:J:367:PRO:HB3	2.29	0.67
1:K:173:HIS:CE1	1:L:268:GLY:CA	2.77	0.67
1:K:290:ARG:CD	1:M:244:ASP:HB2	2.12	0.67
1:M:236:LEU:HD22	1:M:252:ASN:N	2.09	0.67
1:N:143:TYR:O	1:N:143:TYR:CD1	2.48	0.67
1:O:104:LEU:HB2	1:O:356:TRP:CZ3	2.30	0.67
1:O:370:VAL:HG13	1:O:370:VAL:O	1.95	0.67
1:P:22:ALA:HB1	1:P:348:SER:HB3	1.75	0.67
1:Q:38:PRO:CG	1:Q:49:GLN:HE22	2.07	0.67
1:R:58:ALA:HB1	1:R:65:LEU:CD2	2.25	0.67
1:R:110:LEU:HD12	1:R:177:ARG:NH1	2.09	0.67
1:T:104:LEU:HB2	1:T:356:TRP:CZ3	2.30	0.67
1:A:38:PRO:CG	1:A:49:GLN:HE22	2.07	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:143:TYR:O	1:C:143:TYR:CD1	2.48	0.67
1:E:104:LEU:HB2	1:E:356:TRP:CZ3	2.30	0.67
1:J:236:LEU:HD22	1:J:252:ASN:N	2.09	0.67
1:L:7:ALA:HB1	1:L:356:TRP:CH2	2.29	0.67
1:L:236:LEU:HD22	1:L:252:ASN:N	2.09	0.67
1:M:173:HIS:CE1	1:N:268:GLY:CA	2.77	0.67
1:P:37:ARG:CG	1:P:38:PRO:HD2	2.20	0.67
1:P:58:ALA:HB1	1:P:65:LEU:CD2	2.25	0.67
1:P:362:TYR:CE1	1:P:367:PRO:HB3	2.28	0.67
1:S:7:ALA:HB1	1:S:356:TRP:CH2	2.29	0.67
1:S:39:ARG:NE	1:S:66:THR:HB	2.09	0.67
1:V:104:LEU:HB2	1:V:356:TRP:CZ3	2.30	0.67
1:V:110:LEU:HD12	1:V:177:ARG:NH1	2.09	0.67
1:W:236:LEU:HD22	1:W:252:ASN:N	2.09	0.67
1:W:301:GLY:N	1:W:335:ARG:HG3	2.08	0.67
1:C:58:ALA:HB1	1:C:65:LEU:CD2	2.25	0.67
1:F:208:ILE:HD11	1:F:243:PRO:CG	2.23	0.67
1:F:362:TYR:O	1:F:366:GLY:HA2	1.94	0.67
1:M:143:TYR:O	1:M:143:TYR:CD1	2.48	0.67
1:O:236:LEU:HD22	1:O:252:ASN:N	2.09	0.67
1:Q:39:ARG:NE	1:Q:66:THR:HB	2.09	0.67
1:S:110:LEU:HD12	1:S:177:ARG:NH1	2.09	0.67
1:S:236:LEU:HD22	1:S:252:ASN:N	2.09	0.67
1:T:58:ALA:HB1	1:T:65:LEU:CD2	2.25	0.67
1:U:236:LEU:HD22	1:U:252:ASN:N	2.09	0.67
1:W:110:LEU:HD12	1:W:177:ARG:NH1	2.09	0.67
1:G:110:LEU:HD12	1:G:177:ARG:NH1	2.09	0.66
1:H:58:ALA:HB1	1:H:65:LEU:CD2	2.25	0.66
1:H:370:VAL:O	1:H:370:VAL:HG13	1.95	0.66
1:L:34:ILE:HD13	1:L:67:LEU:HD22	1.77	0.66
1:L:143:TYR:O	1:L:143:TYR:CD1	2.48	0.66
1:L:370:VAL:HG13	1:L:370:VAL:O	1.95	0.66
1:N:110:LEU:HD12	1:N:177:ARG:NH1	2.09	0.66
1:O:34:ILE:HA	1:O:68:LYS:O	1.96	0.66
1:Q:104:LEU:HB2	1:Q:356:TRP:CZ3	2.30	0.66
1:R:362:TYR:O	1:R:366:GLY:HA2	1.94	0.66
1:T:173:HIS:CE1	1:U:268:GLY:CA	2.77	0.66
1:U:38:PRO:CG	1:U:49:GLN:HE22	2.07	0.66
1:V:58:ALA:HB1	1:V:65:LEU:CD2	2.24	0.66
1:V:236:LEU:HD22	1:V:252:ASN:N	2.09	0.66
1:W:38:PRO:CG	1:W:49:GLN:HE22	2.07	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:300:SER:CA	1:B:335:ARG:HG3	2.25	0.66
1:C:104:LEU:HB2	1:C:356:TRP:CZ3	2.30	0.66
1:K:34:ILE:HD13	1:K:67:LEU:HD22	1.77	0.66
1:K:370:VAL:O	1:K:370:VAL:HG13	1.95	0.66
1:M:300:SER:CA	1:M:335:ARG:HG3	2.25	0.66
1:N:7:ALA:HB1	1:N:356:TRP:CH2	2.29	0.66
1:N:58:ALA:HB1	1:N:65:LEU:CD2	2.25	0.66
1:O:39:ARG:NE	1:O:66:THR:HB	2.09	0.66
1:R:143:TYR:O	1:R:143:TYR:CD1	2.48	0.66
1:S:58:ALA:HB1	1:S:65:LEU:CD2	2.25	0.66
1:U:362:TYR:CE1	1:U:367:PRO:HB3	2.28	0.66
1:V:34:ILE:HA	1:V:68:LYS:O	1.96	0.66
1:W:208:ILE:CD1	1:W:243:PRO:HD2	2.18	0.66
1:C:110:LEU:HD12	1:C:177:ARG:NH1	2.09	0.66
1:E:37:ARG:CG	1:E:38:PRO:HD2	2.20	0.66
1:E:38:PRO:CG	1:E:49:GLN:HE22	2.07	0.66
1:F:104:LEU:HB2	1:F:356:TRP:CZ3	2.30	0.66
1:Q:173:HIS:CE1	1:R:268:GLY:CA	2.77	0.66
1:S:370:VAL:O	1:S:370:VAL:HG13	1.95	0.66
1:V:143:TYR:O	1:V:143:TYR:CD1	2.48	0.66
1:D:34:ILE:HA	1:D:68:LYS:O	1.96	0.66
1:E:34:ILE:HA	1:E:68:LYS:O	1.96	0.66
1:F:236:LEU:HD22	1:F:252:ASN:N	2.09	0.66
1:H:236:LEU:HD22	1:H:252:ASN:N	2.09	0.66
1:J:143:TYR:O	1:J:143:TYR:CD1	2.48	0.66
1:K:143:TYR:O	1:K:143:TYR:CD1	2.48	0.66
1:O:37:ARG:CG	1:O:38:PRO:HD2	2.20	0.66
1:O:370:VAL:HG22	1:O:375:PHE:O	1.96	0.66
1:Q:34:ILE:HA	1:Q:68:LYS:O	1.96	0.66
1:S:104:LEU:HB2	1:S:356:TRP:CZ3	2.30	0.66
1:U:39:ARG:NE	1:U:66:THR:HB	2.09	0.66
1:U:110:LEU:HD12	1:U:177:ARG:NH1	2.09	0.66
1:W:58:ALA:HB1	1:W:65:LEU:CD2	2.25	0.66
1:A:104:LEU:HB2	1:A:356:TRP:CZ3	2.30	0.66
1:G:143:TYR:O	1:G:143:TYR:CD1	2.48	0.66
1:I:34:ILE:HD13	1:I:67:LEU:HD22	1.76	0.66
1:I:300:SER:CA	1:I:335:ARG:HG3	2.26	0.66
1:J:39:ARG:NE	1:J:66:THR:HB	2.09	0.66
1:K:34:ILE:HA	1:K:68:LYS:O	1.96	0.66
1:N:34:ILE:HD13	1:N:67:LEU:HD22	1.77	0.66
1:B:35:VAL:CG1	1:B:68:LYS:HB2	2.22	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:TYR:O	1:B:143:TYR:CD1	2.48	0.66
1:E:370:VAL:HG22	1:E:375:PHE:O	1.96	0.66
1:G:34:ILE:HA	1:G:68:LYS:O	1.96	0.66
1:G:38:PRO:CG	1:G:49:GLN:HE22	2.07	0.66
1:H:370:VAL:HG22	1:H:375:PHE:O	1.96	0.66
1:I:362:TYR:CE1	1:I:367:PRO:HB3	2.29	0.66
1:I:370:VAL:HG22	1:I:375:PHE:O	1.96	0.66
1:J:370:VAL:HG22	1:J:375:PHE:O	1.96	0.66
1:M:34:ILE:HA	1:M:68:LYS:O	1.96	0.66
1:S:34:ILE:HA	1:S:68:LYS:O	1.96	0.66
1:U:35:VAL:CA	1:U:54:VAL:HG21	2.26	0.66
1:A:370:VAL:HG22	1:A:375:PHE:O	1.96	0.66
1:C:34:ILE:HA	1:C:68:LYS:O	1.96	0.66
1:D:35:VAL:CG1	1:D:68:LYS:HB2	2.22	0.66
1:N:370:VAL:HG13	1:N:370:VAL:O	1.95	0.66
1:P:370:VAL:HG22	1:P:375:PHE:O	1.96	0.66
1:S:35:VAL:CA	1:S:54:VAL:HG21	2.26	0.66
1:T:34:ILE:HA	1:T:68:LYS:O	1.96	0.66
1:U:104:LEU:HB2	1:U:356:TRP:CZ3	2.30	0.66
1:W:35:VAL:CA	1:W:54:VAL:HG21	2.26	0.66
1:W:143:TYR:O	1:W:143:TYR:CD1	2.48	0.66
1:A:58:ALA:HB1	1:A:65:LEU:CD2	2.25	0.66
1:C:370:VAL:HG22	1:C:375:PHE:O	1.96	0.66
1:C:370:VAL:O	1:C:370:VAL:HG13	1.95	0.66
1:D:104:LEU:HB2	1:D:356:TRP:CZ3	2.30	0.66
1:G:35:VAL:CA	1:G:54:VAL:HG21	2.26	0.66
1:I:38:PRO:CG	1:I:49:GLN:HE22	2.07	0.66
1:L:208:ILE:CD1	1:L:243:PRO:HD2	2.18	0.66
1:L:362:TYR:CE1	1:L:367:PRO:HB3	2.28	0.66
1:N:362:TYR:CE1	1:N:367:PRO:HB3	2.28	0.66
1:Q:370:VAL:HG13	1:Q:370:VAL:O	1.95	0.66
1:S:362:TYR:CE1	1:S:367:PRO:HB3	2.28	0.66
1:T:300:SER:CA	1:T:335:ARG:HG3	2.26	0.66
1:W:370:VAL:HG22	1:W:375:PHE:O	1.96	0.66
1:E:35:VAL:CA	1:E:54:VAL:HG21	2.26	0.66
1:F:143:TYR:O	1:F:143:TYR:CD1	2.48	0.66
1:I:35:VAL:CA	1:I:54:VAL:HG21	2.26	0.66
1:L:58:ALA:HB1	1:L:65:LEU:CD2	2.25	0.66
1:M:370:VAL:HG22	1:M:375:PHE:O	1.96	0.66
1:O:300:SER:CA	1:O:335:ARG:HG3	2.25	0.66
1:P:34:ILE:HA	1:P:68:LYS:O	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:35:VAL:CA	1:Q:54:VAL:HG21	2.26	0.66
1:Q:143:TYR:O	1:Q:143:TYR:CD1	2.48	0.66
1:Q:300:SER:CA	1:Q:335:ARG:HG3	2.26	0.66
1:Q:370:VAL:HG22	1:Q:375:PHE:O	1.96	0.66
1:R:34:ILE:HA	1:R:68:LYS:O	1.96	0.66
1:S:38:PRO:CG	1:S:49:GLN:HE22	2.07	0.66
1:T:370:VAL:HG13	1:T:370:VAL:O	1.95	0.66
1:U:58:ALA:HB1	1:U:65:LEU:CD2	2.25	0.66
1:U:143:TYR:O	1:U:143:TYR:CD1	2.48	0.66
1:A:34:ILE:HD13	1:A:67:LEU:HD22	1.77	0.66
1:G:370:VAL:HG13	1:G:370:VAL:O	1.95	0.66
1:O:143:TYR:O	1:O:143:TYR:CD1	2.48	0.66
1:P:370:VAL:O	1:P:370:VAL:HG13	1.95	0.66
1:S:300:SER:CA	1:S:335:ARG:HG3	2.25	0.66
1:T:370:VAL:HG22	1:T:375:PHE:O	1.96	0.66
1:A:370:VAL:HG13	1:A:370:VAL:O	1.95	0.65
1:B:370:VAL:HG22	1:B:375:PHE:O	1.96	0.65
1:C:34:ILE:HD13	1:C:67:LEU:HD22	1.77	0.65
1:I:370:VAL:HG13	1:I:370:VAL:O	1.95	0.65
1:J:58:ALA:HB1	1:J:65:LEU:CD2	2.25	0.65
1:L:39:ARG:NE	1:L:66:THR:HB	2.09	0.65
1:L:370:VAL:HG22	1:L:375:PHE:O	1.96	0.65
1:M:39:ARG:NE	1:M:66:THR:HB	2.09	0.65
1:R:370:VAL:HG22	1:R:375:PHE:O	1.96	0.65
1:T:34:ILE:HD13	1:T:67:LEU:HD22	1.77	0.65
1:V:370:VAL:HG22	1:V:375:PHE:O	1.96	0.65
1:V:370:VAL:O	1:V:370:VAL:HG13	1.95	0.65
1:W:104:LEU:HB2	1:W:356:TRP:CZ3	2.30	0.65
1:B:34:ILE:HA	1:B:68:LYS:O	1.96	0.65
1:D:35:VAL:CA	1:D:54:VAL:HG21	2.26	0.65
1:E:34:ILE:HD13	1:E:67:LEU:HD22	1.77	0.65
1:F:35:VAL:CG1	1:F:68:LYS:HB2	2.22	0.65
1:F:370:VAL:HG13	1:F:370:VAL:O	1.95	0.65
1:H:143:TYR:O	1:H:143:TYR:CD1	2.48	0.65
1:I:34:ILE:HA	1:I:68:LYS:O	1.96	0.65
1:J:34:ILE:HA	1:J:68:LYS:O	1.96	0.65
1:L:35:VAL:CA	1:L:54:VAL:HG21	2.26	0.65
1:R:34:ILE:HD13	1:R:67:LEU:HD22	1.77	0.65
1:V:35:VAL:CA	1:V:54:VAL:HG21	2.26	0.65
1:B:104:LEU:HB2	1:B:356:TRP:CZ3	2.30	0.65
1:F:300:SER:CA	1:F:335:ARG:HG3	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:300:SER:CA	1:G:335:ARG:HG3	2.25	0.65
1:G:370:VAL:HG22	1:G:375:PHE:O	1.96	0.65
1:H:34:ILE:HA	1:H:68:LYS:O	1.96	0.65
1:K:208:ILE:CD1	1:K:243:PRO:HD2	2.18	0.65
1:O:35:VAL:CA	1:O:54:VAL:HG21	2.26	0.65
1:V:34:ILE:HD13	1:V:67:LEU:HD22	1.77	0.65
1:V:300:SER:CA	1:V:335:ARG:HG3	2.25	0.65
1:A:34:ILE:HA	1:A:68:LYS:O	1.96	0.65
1:D:143:TYR:O	1:D:143:TYR:CD1	2.48	0.65
1:E:369:ILE:CG2	1:E:370:VAL:N	2.60	0.65
1:F:370:VAL:HG22	1:F:375:PHE:O	1.96	0.65
1:G:34:ILE:HD13	1:G:67:LEU:HD22	1.77	0.65
1:K:35:VAL:CA	1:K:54:VAL:HG21	2.26	0.65
1:L:34:ILE:HA	1:L:68:LYS:O	1.96	0.65
1:N:370:VAL:HG22	1:N:375:PHE:O	1.96	0.65
1:P:34:ILE:HD13	1:P:67:LEU:HD22	1.77	0.65
1:S:143:TYR:O	1:S:143:TYR:CD1	2.48	0.65
1:T:290:ARG:CD	1:V:244:ASP:HB2	2.12	0.65
1:U:35:VAL:CG1	1:U:68:LYS:HB2	2.22	0.65
1:W:34:ILE:HA	1:W:68:LYS:O	1.96	0.65
1:W:39:ARG:NE	1:W:66:THR:HB	2.09	0.65
1:B:35:VAL:CA	1:B:54:VAL:HG21	2.26	0.65
1:C:35:VAL:CA	1:C:54:VAL:HG21	2.26	0.65
1:C:300:SER:CA	1:C:335:ARG:HG3	2.25	0.65
1:E:300:SER:CA	1:E:335:ARG:HG3	2.25	0.65
1:F:34:ILE:HA	1:F:68:LYS:O	1.96	0.65
1:P:35:VAL:CA	1:P:54:VAL:HG21	2.26	0.65
1:D:300:SER:CA	1:D:335:ARG:HG3	2.26	0.65
1:K:300:SER:CA	1:K:335:ARG:HG3	2.25	0.65
1:N:35:VAL:CA	1:N:54:VAL:HG21	2.26	0.65
1:N:369:ILE:CG2	1:N:370:VAL:N	2.60	0.65
1:T:369:ILE:CG2	1:T:370:VAL:N	2.60	0.65
1:E:362:TYR:CE1	1:E:367:PRO:HB3	2.29	0.65
1:H:300:SER:CA	1:H:335:ARG:HG3	2.26	0.65
1:L:369:ILE:CG2	1:L:370:VAL:N	2.60	0.65
1:U:370:VAL:HG22	1:U:375:PHE:O	1.96	0.65
1:C:369:ILE:CG2	1:C:370:VAL:N	2.60	0.65
1:G:369:ILE:CG2	1:G:370:VAL:N	2.60	0.65
1:J:35:VAL:CA	1:J:54:VAL:HG21	2.26	0.65
1:K:370:VAL:HG22	1:K:375:PHE:O	1.96	0.65
1:N:34:ILE:HA	1:N:68:LYS:O	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:369:ILE:CG2	1:V:370:VAL:N	2.60	0.65
1:D:58:ALA:O	1:D:61:LYS:N	2.30	0.65
1:H:35:VAL:CA	1:H:54:VAL:HG21	2.26	0.65
1:O:58:ALA:O	1:O:61:LYS:N	2.30	0.65
1:R:35:VAL:CA	1:R:54:VAL:HG21	2.26	0.65
1:R:300:SER:CA	1:R:335:ARG:HG3	2.26	0.65
1:R:370:VAL:HG13	1:R:370:VAL:O	1.95	0.65
1:T:35:VAL:CA	1:T:54:VAL:HG21	2.26	0.65
1:W:37:ARG:CG	1:W:38:PRO:HD2	2.20	0.65
1:B:39:ARG:NE	1:B:66:THR:HB	2.09	0.65
1:C:58:ALA:O	1:C:61:LYS:N	2.30	0.65
1:E:58:ALA:O	1:E:61:LYS:N	2.30	0.65
1:E:370:VAL:O	1:E:370:VAL:HG13	1.95	0.65
1:G:362:TYR:CE1	1:G:367:PRO:HB3	2.29	0.65
1:N:58:ALA:O	1:N:61:LYS:N	2.30	0.65
1:U:34:ILE:HA	1:U:68:LYS:O	1.96	0.65
1:M:35:VAL:CA	1:M:54:VAL:HG21	2.26	0.64
1:N:300:SER:CA	1:N:335:ARG:HG3	2.26	0.64
1:P:369:ILE:CG2	1:P:370:VAL:N	2.60	0.64
1:S:370:VAL:HG22	1:S:375:PHE:O	1.96	0.64
1:T:58:ALA:O	1:T:61:LYS:N	2.30	0.64
1:W:300:SER:CA	1:W:335:ARG:HG3	2.25	0.64
1:W:369:ILE:CG2	1:W:370:VAL:N	2.60	0.64
1:A:35:VAL:CA	1:A:54:VAL:HG21	2.26	0.64
1:F:58:ALA:O	1:F:61:LYS:N	2.30	0.64
1:I:58:ALA:O	1:I:61:LYS:N	2.30	0.64
1:P:300:SER:CA	1:P:335:ARG:HG3	2.25	0.64
1:A:39:ARG:NE	1:A:66:THR:HB	2.09	0.64
1:F:7:ALA:HB1	1:F:356:TRP:CZ2	2.33	0.64
1:H:35:VAL:CG1	1:H:68:LYS:HB2	2.22	0.64
1:K:39:ARG:NE	1:K:66:THR:HB	2.09	0.64
1:N:39:ARG:NE	1:N:66:THR:HB	2.09	0.64
1:P:58:ALA:O	1:P:61:LYS:N	2.30	0.64
1:Q:58:ALA:O	1:Q:61:LYS:N	2.30	0.64
1:V:58:ALA:O	1:V:61:LYS:N	2.30	0.64
1:A:7:ALA:HB1	1:A:356:TRP:CZ2	2.33	0.64
1:D:7:ALA:HB1	1:D:356:TRP:CZ2	2.33	0.64
1:F:35:VAL:CA	1:F:54:VAL:HG21	2.26	0.64
1:K:58:ALA:O	1:K:61:LYS:N	2.30	0.64
1:K:369:ILE:CG2	1:K:370:VAL:N	2.60	0.64
1:R:369:ILE:CG2	1:R:370:VAL:N	2.60	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:39:ARG:NE	1:V:66:THR:HB	2.09	0.64
1:W:35:VAL:CG1	1:W:68:LYS:HB2	2.22	0.64
1:C:7:ALA:HB1	1:C:356:TRP:CZ2	2.33	0.64
1:D:370:VAL:HG22	1:D:375:PHE:O	1.96	0.64
1:E:7:ALA:HB1	1:E:356:TRP:CZ2	2.33	0.64
1:H:7:ALA:HB1	1:H:356:TRP:CZ2	2.33	0.64
1:K:7:ALA:HB1	1:K:356:TRP:CZ2	2.33	0.64
1:K:34:ILE:HB	1:K:54:VAL:HG13	1.80	0.64
1:L:7:ALA:HB1	1:L:356:TRP:CZ2	2.33	0.64
1:O:369:ILE:CG2	1:O:370:VAL:N	2.60	0.64
1:P:7:ALA:HB1	1:P:356:TRP:CZ2	2.33	0.64
1:Q:7:ALA:HB1	1:Q:356:TRP:CZ2	2.33	0.64
1:R:7:ALA:HB1	1:R:356:TRP:CZ2	2.33	0.64
1:S:7:ALA:HB1	1:S:356:TRP:CZ2	2.33	0.64
1:S:37:ARG:CG	1:S:38:PRO:HD2	2.20	0.64
1:U:369:ILE:CG2	1:U:370:VAL:N	2.60	0.64
1:A:369:ILE:CG2	1:A:370:VAL:N	2.60	0.64
1:B:7:ALA:HB1	1:B:356:TRP:CZ2	2.33	0.64
1:C:290:ARG:CD	1:E:244:ASP:HB2	2.12	0.64
1:D:39:ARG:NE	1:D:66:THR:HB	2.09	0.64
1:H:37:ARG:CG	1:H:38:PRO:HD2	2.20	0.64
1:I:7:ALA:HB1	1:I:356:TRP:CZ2	2.33	0.64
1:J:7:ALA:HB1	1:J:356:TRP:CZ2	2.33	0.64
1:L:300:SER:CA	1:L:335:ARG:HG3	2.26	0.64
1:M:369:ILE:CG2	1:M:370:VAL:N	2.60	0.64
1:N:7:ALA:HB1	1:N:356:TRP:CZ2	2.33	0.64
1:N:37:ARG:CG	1:N:38:PRO:HD2	2.20	0.64
1:O:7:ALA:HB1	1:O:356:TRP:CZ2	2.33	0.64
1:V:208:ILE:CD1	1:V:243:PRO:HD2	2.18	0.64
1:A:300:SER:CA	1:A:335:ARG:HG3	2.26	0.64
1:C:39:ARG:NE	1:C:66:THR:HB	2.09	0.64
1:F:369:ILE:CG2	1:F:370:VAL:N	2.60	0.64
1:J:369:ILE:CG2	1:J:370:VAL:N	2.60	0.64
1:Q:369:ILE:CG2	1:Q:370:VAL:N	2.60	0.64
1:U:7:ALA:HB1	1:U:356:TRP:CZ2	2.33	0.64
1:U:300:SER:CA	1:U:335:ARG:HG3	2.26	0.64
1:B:58:ALA:O	1:B:61:LYS:N	2.30	0.64
1:H:369:ILE:CG2	1:H:370:VAL:N	2.60	0.64
1:M:7:ALA:HB1	1:M:356:TRP:CZ2	2.33	0.64
1:W:7:ALA:HB1	1:W:356:TRP:CZ2	2.33	0.64
1:D:369:ILE:CG2	1:D:370:VAL:N	2.60	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:7:ALA:HB1	1:G:356:TRP:CZ2	2.33	0.64
1:H:58:ALA:O	1:H:61:LYS:N	2.30	0.64
1:J:300:SER:CA	1:J:335:ARG:HG3	2.26	0.64
1:M:58:ALA:O	1:M:61:LYS:N	2.30	0.64
1:B:369:ILE:CG2	1:B:370:VAL:N	2.60	0.63
1:E:39:ARG:NE	1:E:66:THR:HB	2.09	0.63
1:I:298:VAL:HG12	1:I:335:ARG:HH11	1.63	0.63
1:I:334:GLU:OE2	1:I:334:GLU:HA	1.98	0.63
1:I:369:ILE:CG2	1:I:370:VAL:N	2.60	0.63
1:J:298:VAL:HG12	1:J:335:ARG:HH11	1.64	0.63
1:V:35:VAL:CG1	1:V:68:LYS:HB2	2.22	0.63
1:J:334:GLU:HA	1:J:334:GLU:OE2	1.98	0.63
1:L:334:GLU:HA	1:L:334:GLU:OE2	1.98	0.63
1:S:334:GLU:HA	1:S:334:GLU:OE2	1.98	0.63
1:V:334:GLU:HA	1:V:334:GLU:OE2	1.98	0.63
1:E:147:ARG:HH21	1:E:147:ARG:CG	2.12	0.63
1:F:334:GLU:HA	1:F:334:GLU:OE2	1.98	0.63
1:G:58:ALA:O	1:G:61:LYS:N	2.30	0.63
1:G:334:GLU:HA	1:G:334:GLU:OE2	1.98	0.63
1:T:334:GLU:OE2	1:T:334:GLU:HA	1.98	0.63
1:A:298:VAL:HG12	1:A:335:ARG:HH11	1.64	0.63
1:C:147:ARG:HH21	1:C:147:ARG:CG	2.12	0.63
1:G:39:ARG:NE	1:G:66:THR:HB	2.09	0.63
1:G:147:ARG:HH21	1:G:147:ARG:CG	2.12	0.63
1:L:37:ARG:CG	1:L:38:PRO:HD2	2.20	0.63
1:P:298:VAL:HG12	1:P:335:ARG:HH11	1.64	0.63
1:S:369:ILE:CG2	1:S:370:VAL:N	2.60	0.63
1:T:39:ARG:NE	1:T:66:THR:HB	2.09	0.63
1:V:298:VAL:HG12	1:V:335:ARG:HH11	1.64	0.63
1:W:147:ARG:HH21	1:W:147:ARG:CG	2.12	0.63
1:C:298:VAL:HG12	1:C:335:ARG:HH11	1.64	0.63
1:D:34:ILE:HB	1:D:54:VAL:HG13	1.79	0.63
1:F:39:ARG:NE	1:F:66:THR:HB	2.09	0.63
1:G:298:VAL:HG12	1:G:335:ARG:HH11	1.64	0.63
1:J:35:VAL:CG1	1:J:68:LYS:HB2	2.22	0.63
1:J:37:ARG:O	1:J:66:THR:HG22	1.99	0.63
1:O:37:ARG:HB2	1:O:51:ASP:O	1.99	0.63
1:Q:147:ARG:HH21	1:Q:147:ARG:CG	2.12	0.63
1:T:7:ALA:HB1	1:T:356:TRP:CZ2	2.33	0.63
1:T:37:ARG:HB2	1:T:51:ASP:O	1.99	0.63
1:W:334:GLU:HA	1:W:334:GLU:OE2	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:298:VAL:HG12	1:B:335:ARG:HH11	1.64	0.63
1:D:334:GLU:HA	1:D:334:GLU:OE2	1.98	0.63
1:E:169:TYR:CE2	1:G:40:HIS:CB	2.82	0.63
1:G:37:ARG:O	1:G:66:THR:HG22	1.99	0.63
1:I:37:ARG:HB2	1:I:51:ASP:O	1.99	0.63
1:K:334:GLU:HA	1:K:334:GLU:OE2	1.98	0.63
1:M:34:ILE:HB	1:M:54:VAL:HG13	1.80	0.63
1:M:334:GLU:HA	1:M:334:GLU:OE2	1.98	0.63
1:O:147:ARG:HH21	1:O:147:ARG:CG	2.12	0.63
1:O:298:VAL:HG12	1:O:335:ARG:HH11	1.64	0.63
1:P:39:ARG:NE	1:P:66:THR:HB	2.09	0.63
1:Q:298:VAL:HG12	1:Q:335:ARG:HH11	1.64	0.63
1:U:147:ARG:HH21	1:U:147:ARG:CG	2.12	0.63
1:B:169:TYR:CE2	1:D:40:HIS:CB	2.82	0.63
1:C:169:TYR:CE2	1:E:40:HIS:CB	2.82	0.63
1:D:37:ARG:O	1:D:66:THR:HG22	1.99	0.63
1:E:37:ARG:O	1:E:66:THR:HG22	1.99	0.63
1:H:37:ARG:O	1:H:66:THR:HG22	1.99	0.63
1:K:37:ARG:HB2	1:K:51:ASP:O	1.99	0.63
1:L:37:ARG:O	1:L:66:THR:HG22	1.99	0.63
1:L:298:VAL:HG12	1:L:335:ARG:HH11	1.64	0.63
1:M:169:TYR:CE2	1:O:40:HIS:CB	2.82	0.63
1:O:35:VAL:CG1	1:O:68:LYS:HB2	2.22	0.63
1:O:37:ARG:O	1:O:66:THR:HG22	1.99	0.63
1:R:58:ALA:O	1:R:61:LYS:N	2.30	0.63
1:R:298:VAL:HG12	1:R:335:ARG:HH11	1.64	0.63
1:S:58:ALA:O	1:S:61:LYS:N	2.30	0.63
1:S:147:ARG:HH21	1:S:147:ARG:CG	2.12	0.63
1:V:7:ALA:HB1	1:V:356:TRP:CZ2	2.33	0.63
1:V:147:ARG:HH21	1:V:147:ARG:CG	2.12	0.63
1:A:37:ARG:O	1:A:66:THR:HG22	1.99	0.63
1:C:37:ARG:O	1:C:66:THR:HG22	1.99	0.63
1:E:334:GLU:HA	1:E:334:GLU:OE2	1.98	0.63
1:F:37:ARG:O	1:F:66:THR:HG22	1.99	0.63
1:G:169:TYR:CE2	1:I:40:HIS:CB	2.82	0.63
1:H:298:VAL:HG12	1:H:335:ARG:HH11	1.64	0.63
1:I:290:ARG:CD	1:K:244:ASP:HB2	2.12	0.63
1:K:169:TYR:CE2	1:M:40:HIS:CB	2.82	0.63
1:M:35:VAL:CG1	1:M:68:LYS:HB2	2.22	0.63
1:M:37:ARG:O	1:M:66:THR:HG22	1.99	0.63
1:N:147:ARG:HH21	1:N:147:ARG:CG	2.12	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:169:TYR:CE2	1:Q:40:HIS:CB	2.82	0.63
1:Q:334:GLU:OE2	1:Q:334:GLU:HA	1.98	0.63
1:T:37:ARG:CG	1:T:38:PRO:HD2	2.20	0.63
1:V:34:ILE:HB	1:V:54:VAL:HG13	1.80	0.63
1:W:298:VAL:HG12	1:W:335:ARG:HH11	1.64	0.63
1:D:169:TYR:CE2	1:F:40:HIS:CB	2.82	0.63
1:I:39:ARG:NE	1:I:66:THR:HB	2.09	0.63
1:I:169:TYR:CE2	1:K:40:HIS:CB	2.82	0.63
1:J:147:ARG:HH21	1:J:147:ARG:CG	2.12	0.63
1:L:147:ARG:HH21	1:L:147:ARG:CG	2.12	0.63
1:P:147:ARG:HH21	1:P:147:ARG:CG	2.12	0.63
1:Q:35:VAL:CG1	1:Q:68:LYS:HB2	2.22	0.63
1:Q:37:ARG:HB2	1:Q:51:ASP:O	1.99	0.63
1:Q:37:ARG:O	1:Q:66:THR:HG22	1.99	0.63
1:Q:169:TYR:CE2	1:S:40:HIS:CB	2.82	0.63
1:S:37:ARG:O	1:S:66:THR:HG22	1.99	0.63
1:U:37:ARG:O	1:U:66:THR:HG22	1.99	0.63
1:W:37:ARG:HB2	1:W:51:ASP:O	1.99	0.63
1:A:37:ARG:HB2	1:A:51:ASP:O	1.99	0.62
1:A:169:TYR:CE2	1:C:40:HIS:CB	2.82	0.62
1:B:362:TYR:HA	1:B:366:GLY:O	1.99	0.62
1:I:147:ARG:HH21	1:I:147:ARG:CG	2.12	0.62
1:T:35:VAL:CG1	1:T:68:LYS:HB2	2.22	0.62
1:U:334:GLU:HA	1:U:334:GLU:OE2	1.98	0.62
1:A:147:ARG:HH21	1:A:147:ARG:CG	2.12	0.62
1:D:362:TYR:HA	1:D:366:GLY:O	2.00	0.62
1:E:37:ARG:HB2	1:E:51:ASP:O	1.99	0.62
1:E:298:VAL:HG12	1:E:335:ARG:HH11	1.64	0.62
1:F:362:TYR:HA	1:F:366:GLY:O	2.00	0.62
1:I:37:ARG:O	1:I:66:THR:HG22	1.99	0.62
1:K:35:VAL:CG1	1:K:68:LYS:HB2	2.22	0.62
1:L:169:TYR:CE2	1:N:40:HIS:CB	2.82	0.62
1:M:147:ARG:HH21	1:M:147:ARG:CG	2.12	0.62
1:N:37:ARG:O	1:N:66:THR:HG22	1.99	0.62
1:N:169:TYR:CE2	1:P:40:HIS:CB	2.82	0.62
1:R:334:GLU:HA	1:R:334:GLU:OE2	1.98	0.62
1:B:147:ARG:HH21	1:B:147:ARG:CG	2.12	0.62
1:F:37:ARG:HB2	1:F:51:ASP:O	1.99	0.62
1:O:334:GLU:HA	1:O:334:GLU:OE2	1.98	0.62
1:P:169:TYR:CE2	1:R:40:HIS:CB	2.82	0.62
1:S:169:TYR:CE2	1:U:40:HIS:CB	2.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:298:VAL:HG12	1:S:335:ARG:HH11	1.64	0.62
1:U:37:ARG:HB2	1:U:51:ASP:O	1.99	0.62
1:V:37:ARG:HB2	1:V:51:ASP:O	1.99	0.62
1:V:362:TYR:HA	1:V:366:GLY:O	2.00	0.62
1:C:37:ARG:CG	1:C:38:PRO:HD2	2.20	0.62
1:C:37:ARG:HB2	1:C:51:ASP:O	1.99	0.62
1:H:334:GLU:HA	1:H:334:GLU:OE2	1.98	0.62
1:J:169:TYR:CE2	1:L:40:HIS:CB	2.82	0.62
1:M:37:ARG:HB2	1:M:51:ASP:O	1.99	0.62
1:M:362:TYR:HA	1:M:366:GLY:O	2.00	0.62
1:R:39:ARG:NE	1:R:66:THR:HB	2.09	0.62
1:T:147:ARG:HH21	1:T:147:ARG:CG	2.12	0.62
1:A:58:ALA:O	1:A:61:LYS:N	2.30	0.62
1:B:334:GLU:HA	1:B:334:GLU:OE2	1.98	0.62
1:D:37:ARG:HB2	1:D:51:ASP:O	1.99	0.62
1:D:133:TYR:HB2	1:D:356:TRP:CE3	2.35	0.62
1:F:133:TYR:HB2	1:F:356:TRP:CE3	2.35	0.62
1:F:298:VAL:HG12	1:F:335:ARG:HH11	1.64	0.62
1:G:362:TYR:HA	1:G:366:GLY:O	1.99	0.62
1:J:58:ALA:O	1:J:61:LYS:N	2.30	0.62
1:P:334:GLU:HA	1:P:334:GLU:OE2	1.98	0.62
1:Q:362:TYR:HA	1:Q:366:GLY:O	2.00	0.62
1:T:169:TYR:CE2	1:V:40:HIS:CB	2.82	0.62
1:T:298:VAL:HG12	1:T:335:ARG:HH11	1.64	0.62
1:V:37:ARG:O	1:V:66:THR:HG22	1.99	0.62
1:V:133:TYR:HB2	1:V:356:TRP:CE3	2.35	0.62
1:B:133:TYR:HB2	1:B:356:TRP:CE3	2.35	0.62
1:C:334:GLU:HA	1:C:334:GLU:OE2	1.98	0.62
1:D:298:VAL:HG12	1:D:335:ARG:HH11	1.64	0.62
1:E:362:TYR:HA	1:E:366:GLY:O	2.00	0.62
1:H:362:TYR:HA	1:H:366:GLY:O	2.00	0.62
1:K:147:ARG:HH21	1:K:147:ARG:CG	2.12	0.62
1:K:298:VAL:HG12	1:K:335:ARG:HH11	1.64	0.62
1:M:298:VAL:HG12	1:M:335:ARG:HH11	1.64	0.62
1:N:298:VAL:HG12	1:N:335:ARG:HH11	1.64	0.62
1:N:334:GLU:HA	1:N:334:GLU:OE2	1.98	0.62
1:P:104:LEU:HB2	1:P:356:TRP:HH2	1.63	0.62
1:Q:104:LEU:HB2	1:Q:356:TRP:HH2	1.63	0.62
1:S:35:VAL:CG1	1:S:68:LYS:HB2	2.22	0.62
1:T:362:TYR:HA	1:T:366:GLY:O	1.99	0.62
1:U:169:TYR:CE2	1:W:40:HIS:CB	2.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:133:TYR:HB2	1:W:356:TRP:CE3	2.35	0.62
1:A:35:VAL:CG1	1:A:68:LYS:HB2	2.22	0.62
1:B:37:ARG:HB2	1:B:51:ASP:O	1.99	0.62
1:H:169:TYR:CE2	1:J:40:HIS:CB	2.82	0.62
1:I:35:VAL:CG1	1:I:68:LYS:HB2	2.22	0.62
1:J:34:ILE:HB	1:J:54:VAL:HG13	1.79	0.62
1:M:44:MET:HG3	1:M:45:VAL:N	2.15	0.62
1:N:104:LEU:HB2	1:N:356:TRP:HH2	1.63	0.62
1:P:37:ARG:O	1:P:66:THR:HG22	1.99	0.62
1:R:44:MET:HG3	1:R:45:VAL:N	2.15	0.62
1:R:147:ARG:HH21	1:R:147:ARG:CG	2.12	0.62
1:T:133:TYR:HB2	1:T:356:TRP:CE3	2.35	0.62
1:W:37:ARG:O	1:W:66:THR:HG22	1.99	0.62
1:A:44:MET:HG3	1:A:45:VAL:N	2.15	0.62
1:C:362:TYR:HA	1:C:366:GLY:O	2.00	0.62
1:F:169:TYR:CE2	1:H:40:HIS:CB	2.82	0.62
1:H:133:TYR:HB2	1:H:356:TRP:CE3	2.35	0.62
1:I:362:TYR:HA	1:I:366:GLY:O	2.00	0.62
1:R:169:TYR:CE2	1:T:40:HIS:CB	2.82	0.62
1:S:37:ARG:HB2	1:S:51:ASP:O	1.99	0.62
1:V:44:MET:HG3	1:V:45:VAL:N	2.15	0.62
1:B:37:ARG:CG	1:B:38:PRO:HD2	2.20	0.62
1:B:37:ARG:O	1:B:66:THR:HG22	1.99	0.62
1:C:133:TYR:HB2	1:C:356:TRP:CE3	2.35	0.62
1:E:44:MET:HG3	1:E:45:VAL:N	2.15	0.62
1:E:133:TYR:HB2	1:E:356:TRP:CE3	2.35	0.62
1:I:44:MET:HG3	1:I:45:VAL:N	2.15	0.62
1:N:44:MET:HG3	1:N:45:VAL:N	2.15	0.62
1:P:34:ILE:HB	1:P:54:VAL:HG13	1.79	0.62
1:R:37:ARG:HB2	1:R:51:ASP:O	1.99	0.62
1:A:133:TYR:HB2	1:A:356:TRP:CE3	2.35	0.62
1:A:334:GLU:OE2	1:A:334:GLU:HA	1.98	0.62
1:F:34:ILE:HB	1:F:54:VAL:HG13	1.79	0.62
1:G:133:TYR:HB2	1:G:356:TRP:CE3	2.35	0.62
1:H:39:ARG:NE	1:H:66:THR:HB	2.09	0.62
1:I:133:TYR:OH	1:I:375:PHE:HB2	2.00	0.62
1:J:362:TYR:HA	1:J:366:GLY:O	2.00	0.62
1:K:362:TYR:HA	1:K:366:GLY:O	2.00	0.62
1:L:35:VAL:CG1	1:L:68:LYS:HB2	2.22	0.62
1:P:133:TYR:HB2	1:P:356:TRP:CE3	2.35	0.62
1:R:35:VAL:CG1	1:R:68:LYS:HB2	2.22	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:133:TYR:HB2	1:U:356:TRP:CE3	2.35	0.62
1:U:362:TYR:HA	1:U:366:GLY:O	2.00	0.62
1:W:362:TYR:HA	1:W:366:GLY:O	2.00	0.62
1:A:104:LEU:HB2	1:A:356:TRP:HH2	1.63	0.61
1:A:362:TYR:HA	1:A:366:GLY:O	2.00	0.61
1:D:44:MET:HG3	1:D:45:VAL:N	2.15	0.61
1:G:35:VAL:CG1	1:G:68:LYS:HB2	2.22	0.61
1:H:34:ILE:HB	1:H:54:VAL:HG13	1.80	0.61
1:K:37:ARG:O	1:K:66:THR:HG22	1.99	0.61
1:N:133:TYR:HB2	1:N:356:TRP:CE3	2.35	0.61
1:O:133:TYR:OH	1:O:375:PHE:HB2	2.00	0.61
1:R:37:ARG:O	1:R:66:THR:HG22	1.99	0.61
1:R:133:TYR:HB2	1:R:356:TRP:CE3	2.35	0.61
1:S:133:TYR:HB2	1:S:356:TRP:CE3	2.35	0.61
1:W:44:MET:HG3	1:W:45:VAL:N	2.15	0.61
1:J:44:MET:HG3	1:J:45:VAL:N	2.15	0.61
1:K:157:ASP:HB2	2:K:401:ADP:H5'1	1.83	0.61
1:L:133:TYR:HB2	1:L:356:TRP:CE3	2.35	0.61
1:N:37:ARG:HB2	1:N:51:ASP:O	1.99	0.61
1:Q:44:MET:HG3	1:Q:45:VAL:N	2.15	0.61
1:S:362:TYR:HA	1:S:366:GLY:O	1.99	0.61
1:T:37:ARG:O	1:T:66:THR:HG22	1.99	0.61
1:W:58:ALA:O	1:W:61:LYS:N	2.30	0.61
1:W:104:LEU:HB2	1:W:356:TRP:HH2	1.63	0.61
1:C:35:VAL:CG1	1:C:68:LYS:HB2	2.22	0.61
1:D:147:ARG:HH21	1:D:147:ARG:CG	2.12	0.61
1:H:37:ARG:HB2	1:H:51:ASP:O	1.99	0.61
1:I:133:TYR:HB2	1:I:356:TRP:CE3	2.35	0.61
1:J:133:TYR:HB2	1:J:356:TRP:CE3	2.35	0.61
1:N:35:VAL:CG1	1:N:68:LYS:HB2	2.22	0.61
1:R:362:TYR:HA	1:R:366:GLY:O	2.00	0.61
1:T:133:TYR:OH	1:T:375:PHE:HB2	2.00	0.61
1:V:157:ASP:HB2	2:V:401:ADP:H5'1	1.83	0.61
1:C:65:LEU:C	1:C:65:LEU:HD12	2.21	0.61
1:D:157:ASP:HB2	2:D:401:ADP:H5'1	1.82	0.61
1:I:65:LEU:C	1:I:65:LEU:HD12	2.21	0.61
1:I:157:ASP:HB2	2:I:401:ADP:H5'1	1.83	0.61
1:K:65:LEU:C	1:K:65:LEU:HD12	2.21	0.61
1:O:34:ILE:HB	1:O:54:VAL:HG13	1.80	0.61
1:P:35:VAL:CG1	1:P:68:LYS:HB2	2.22	0.61
1:P:37:ARG:HB2	1:P:51:ASP:O	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:133:TYR:HB2	1:Q:356:TRP:CE3	2.35	0.61
1:R:65:LEU:C	1:R:65:LEU:HD12	2.21	0.61
1:R:104:LEU:HB2	1:R:356:TRP:HH2	1.63	0.61
1:D:133:TYR:OH	1:D:375:PHE:HB2	2.00	0.61
1:E:35:VAL:CG1	1:E:68:LYS:HB2	2.22	0.61
1:E:157:ASP:HB2	2:E:401:ADP:H5'1	1.83	0.61
1:J:37:ARG:HB2	1:J:51:ASP:O	1.99	0.61
1:L:37:ARG:HB2	1:L:51:ASP:O	1.99	0.61
1:O:157:ASP:HB2	2:O:401:ADP:H5'1	1.83	0.61
1:Q:157:ASP:HB2	2:Q:401:ADP:H5'1	1.83	0.61
1:R:157:ASP:HB2	2:R:401:ADP:H5'1	1.83	0.61
1:T:65:LEU:C	1:T:65:LEU:HD12	2.21	0.61
1:V:65:LEU:C	1:V:65:LEU:HD12	2.21	0.61
1:B:157:ASP:HB2	2:B:401:ADP:H5'1	1.83	0.61
1:G:37:ARG:HB2	1:G:51:ASP:O	1.99	0.61
1:H:147:ARG:HH21	1:H:147:ARG:CG	2.12	0.61
1:K:133:TYR:OH	1:K:375:PHE:HB2	2.00	0.61
1:L:362:TYR:HA	1:L:366:GLY:O	2.00	0.61
1:M:65:LEU:HD12	1:M:65:LEU:C	2.21	0.61
1:M:157:ASP:HB2	2:M:401:ADP:H5'1	1.83	0.61
1:U:298:VAL:HG12	1:U:335:ARG:HH11	1.64	0.61
1:C:157:ASP:HB2	2:C:401:ADP:H5'1	1.83	0.61
1:G:157:ASP:HB2	2:G:401:ADP:H5'1	1.83	0.61
1:I:36:GLY:N	1:I:54:VAL:HG23	2.16	0.61
1:K:44:MET:HG3	1:K:45:VAL:N	2.15	0.61
1:K:133:TYR:HB2	1:K:356:TRP:CE3	2.35	0.61
1:N:36:GLY:N	1:N:54:VAL:HG23	2.16	0.61
1:O:133:TYR:HB2	1:O:356:TRP:CE3	2.35	0.61
1:Q:133:TYR:OH	1:Q:375:PHE:HB2	2.00	0.61
1:Q:324:THR:HG21	1:S:241:GLU:CD	2.21	0.61
1:S:324:THR:HG21	1:U:241:GLU:CD	2.21	0.61
1:T:157:ASP:HB2	2:T:401:ADP:H5'1	1.83	0.61
1:U:34:ILE:HB	1:U:54:VAL:HG13	1.80	0.61
1:A:34:ILE:HB	1:A:54:VAL:HG13	1.80	0.61
1:B:65:LEU:C	1:B:65:LEU:HD12	2.21	0.61
1:D:324:THR:HG21	1:F:241:GLU:CD	2.21	0.61
1:J:324:THR:HG21	1:L:241:GLU:CD	2.21	0.61
1:L:104:LEU:HB2	1:L:356:TRP:HH2	1.63	0.61
1:M:36:GLY:N	1:M:54:VAL:HG23	2.16	0.61
1:O:65:LEU:C	1:O:65:LEU:HD12	2.21	0.61
1:O:362:TYR:HA	1:O:366:GLY:O	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:44:MET:HG3	1:P:45:VAL:N	2.15	0.61
1:P:157:ASP:HB2	2:P:401:ADP:H5'1	1.83	0.61
1:U:58:ALA:O	1:U:61:LYS:N	2.30	0.61
1:B:324:THR:HG21	1:D:241:GLU:CD	2.21	0.61
1:F:147:ARG:HH21	1:F:147:ARG:CG	2.12	0.61
1:G:44:MET:HG3	1:G:45:VAL:N	2.15	0.61
1:H:324:THR:HG21	1:J:241:GLU:CD	2.21	0.61
1:J:36:GLY:N	1:J:54:VAL:HG23	2.16	0.61
1:L:36:GLY:N	1:L:54:VAL:HG23	2.16	0.61
1:P:36:GLY:N	1:P:54:VAL:HG23	2.16	0.61
1:P:325:MET:CE	1:R:244:ASP:O	2.49	0.61
1:Q:65:LEU:C	1:Q:65:LEU:HD12	2.21	0.61
1:A:61:LYS:HG2	1:A:64:ILE:HG21	1.83	0.61
1:F:61:LYS:HG2	1:F:64:ILE:HG21	1.83	0.61
1:I:34:ILE:CD1	1:I:67:LEU:HD22	2.31	0.61
1:L:58:ALA:O	1:L:61:LYS:N	2.30	0.61
1:L:61:LYS:HG2	1:L:64:ILE:HG21	1.83	0.61
1:M:133:TYR:HB2	1:M:356:TRP:CE3	2.35	0.61
1:N:325:MET:CE	1:P:244:ASP:O	2.49	0.61
1:O:104:LEU:HB2	1:O:356:TRP:HH2	1.62	0.61
1:P:65:LEU:HD12	1:P:65:LEU:C	2.21	0.61
1:S:36:GLY:N	1:S:54:VAL:HG23	2.16	0.61
1:S:44:MET:HG3	1:S:45:VAL:N	2.15	0.61
1:T:44:MET:HG3	1:T:45:VAL:N	2.15	0.61
1:U:324:THR:HG21	1:W:241:GLU:CD	2.21	0.61
1:V:133:TYR:OH	1:V:375:PHE:HB2	2.00	0.61
1:A:65:LEU:C	1:A:65:LEU:HD12	2.21	0.60
1:A:325:MET:CE	1:C:244:ASP:O	2.49	0.60
1:B:132:MET:O	1:B:357:ILE:HB	2.01	0.60
1:E:34:ILE:HB	1:E:54:VAL:HG13	1.80	0.60
1:E:65:LEU:HD12	1:E:65:LEU:C	2.21	0.60
1:H:61:LYS:HG2	1:H:64:ILE:HG21	1.83	0.60
1:J:65:LEU:C	1:J:65:LEU:HD12	2.21	0.60
1:K:325:MET:CE	1:M:244:ASP:O	2.49	0.60
1:N:362:TYR:HA	1:N:366:GLY:O	2.00	0.60
1:Q:36:GLY:N	1:Q:54:VAL:HG23	2.16	0.60
1:Q:61:LYS:HG2	1:Q:64:ILE:HG21	1.83	0.60
1:S:34:ILE:HB	1:S:54:VAL:HG13	1.79	0.60
1:S:157:ASP:HB2	2:S:401:ADP:H5'1	1.83	0.60
1:T:36:GLY:N	1:T:54:VAL:HG23	2.16	0.60
1:V:104:LEU:HB2	1:V:356:TRP:HH2	1.63	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:61:LYS:HG2	1:W:64:ILE:HG21	1.83	0.60
1:B:346:LEU:O	1:B:349:LEU:HB2	2.02	0.60
1:C:34:ILE:HB	1:C:54:VAL:HG13	1.79	0.60
1:C:133:TYR:OH	1:C:375:PHE:HB2	2.00	0.60
1:D:132:MET:O	1:D:357:ILE:HB	2.01	0.60
1:E:61:LYS:HG2	1:E:64:ILE:HG21	1.83	0.60
1:F:133:TYR:OH	1:F:375:PHE:HB2	2.00	0.60
1:F:157:ASP:HB2	2:F:401:ADP:H5'1	1.83	0.60
1:G:16:LEU:HD23	1:G:32:PRO:HA	1.83	0.60
1:G:133:TYR:OH	1:G:375:PHE:HB2	2.00	0.60
1:H:36:GLY:N	1:H:54:VAL:HG23	2.16	0.60
1:J:61:LYS:HG2	1:J:64:ILE:HG21	1.83	0.60
1:J:132:MET:O	1:J:357:ILE:HB	2.01	0.60
1:L:65:LEU:C	1:L:65:LEU:HD12	2.21	0.60
1:L:325:MET:CE	1:N:244:ASP:O	2.49	0.60
1:M:133:TYR:OH	1:M:375:PHE:HB2	2.00	0.60
1:N:61:LYS:HG2	1:N:64:ILE:HG21	1.83	0.60
1:O:325:MET:CE	1:Q:244:ASP:O	2.49	0.60
1:P:362:TYR:HA	1:P:366:GLY:O	2.00	0.60
1:R:36:GLY:N	1:R:54:VAL:HG23	2.16	0.60
1:R:61:LYS:HG2	1:R:64:ILE:HG21	1.83	0.60
1:R:325:MET:CE	1:T:244:ASP:O	2.49	0.60
1:S:61:LYS:HG2	1:S:64:ILE:HG21	1.83	0.60
1:T:132:MET:O	1:T:357:ILE:HB	2.01	0.60
1:U:132:MET:O	1:U:357:ILE:HB	2.01	0.60
1:U:133:TYR:OH	1:U:375:PHE:HB2	2.00	0.60
1:V:132:MET:O	1:V:357:ILE:HB	2.01	0.60
1:A:324:THR:HG21	1:C:241:GLU:CD	2.21	0.60
1:C:44:MET:HG3	1:C:45:VAL:N	2.15	0.60
1:D:61:LYS:HG2	1:D:64:ILE:HG21	1.83	0.60
1:E:133:TYR:OH	1:E:375:PHE:HB2	2.00	0.60
1:E:288:ASP:HA	1:G:243:PRO:HB2	1.83	0.60
1:G:65:LEU:C	1:G:65:LEU:HD12	2.21	0.60
1:I:325:MET:CE	1:K:244:ASP:O	2.49	0.60
1:O:36:GLY:N	1:O:54:VAL:HG23	2.16	0.60
1:P:132:MET:O	1:P:357:ILE:HB	2.01	0.60
1:Q:325:MET:CE	1:S:244:ASP:O	2.49	0.60
1:Q:346:LEU:O	1:Q:349:LEU:HB2	2.02	0.60
1:R:132:MET:O	1:R:357:ILE:HB	2.01	0.60
1:S:143:TYR:CD1	1:S:143:TYR:C	2.75	0.60
1:S:325:MET:CE	1:U:244:ASP:O	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:36:GLY:N	1:U:54:VAL:HG23	2.16	0.60
1:U:104:LEU:HB2	1:U:356:TRP:HH2	1.62	0.60
1:W:132:MET:O	1:W:357:ILE:HB	2.01	0.60
1:A:157:ASP:HB2	2:A:401:ADP:H5'1	1.83	0.60
1:B:36:GLY:N	1:B:54:VAL:HG23	2.16	0.60
1:C:61:LYS:HG2	1:C:64:ILE:HG21	1.83	0.60
1:C:325:MET:CE	1:E:244:ASP:O	2.49	0.60
1:E:36:GLY:N	1:E:54:VAL:HG23	2.16	0.60
1:E:346:LEU:O	1:E:349:LEU:HB2	2.02	0.60
1:F:44:MET:HG3	1:F:45:VAL:N	2.15	0.60
1:G:288:ASP:HA	1:I:243:PRO:HB2	1.84	0.60
1:J:325:MET:CE	1:L:244:ASP:O	2.49	0.60
1:L:132:MET:O	1:L:357:ILE:HB	2.01	0.60
1:N:65:LEU:C	1:N:65:LEU:HD12	2.21	0.60
1:N:157:ASP:HB2	2:N:401:ADP:H5'1	1.83	0.60
1:P:61:LYS:HG2	1:P:64:ILE:HG21	1.83	0.60
1:R:288:ASP:HA	1:T:243:PRO:HB2	1.84	0.60
1:R:346:LEU:O	1:R:349:LEU:HB2	2.02	0.60
1:T:288:ASP:HA	1:V:243:PRO:HB2	1.84	0.60
1:T:324:THR:HG21	1:V:241:GLU:CD	2.21	0.60
1:T:346:LEU:O	1:T:349:LEU:HB2	2.02	0.60
1:U:61:LYS:HG2	1:U:64:ILE:HG21	1.83	0.60
1:V:34:ILE:CD1	1:V:67:LEU:HD22	2.31	0.60
1:C:346:LEU:O	1:C:349:LEU:HB2	2.02	0.60
1:E:325:MET:CE	1:G:244:ASP:O	2.49	0.60
1:F:34:ILE:CD1	1:F:67:LEU:HD22	2.31	0.60
1:F:132:MET:O	1:F:357:ILE:HB	2.01	0.60
1:G:61:LYS:HG2	1:G:64:ILE:HG21	1.83	0.60
1:H:34:ILE:CD1	1:H:67:LEU:HD22	2.31	0.60
1:H:65:LEU:C	1:H:65:LEU:HD12	2.21	0.60
1:K:324:THR:HG21	1:M:241:GLU:CD	2.21	0.60
1:K:346:LEU:O	1:K:349:LEU:HB2	2.02	0.60
1:L:34:ILE:HB	1:L:54:VAL:HG13	1.79	0.60
1:N:132:MET:O	1:N:357:ILE:HB	2.01	0.60
1:R:16:LEU:HD23	1:R:32:PRO:HA	1.83	0.60
1:R:34:ILE:CD1	1:R:67:LEU:HD22	2.31	0.60
1:R:324:THR:HG21	1:T:241:GLU:CD	2.21	0.60
1:T:34:ILE:CD1	1:T:67:LEU:HD22	2.31	0.60
1:T:61:LYS:HG2	1:T:64:ILE:HG21	1.83	0.60
1:T:325:MET:CE	1:V:244:ASP:O	2.49	0.60
1:U:34:ILE:CD1	1:U:67:LEU:HD22	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:157:ASP:HB2	2:U:401:ADP:H5'1	1.83	0.60
1:U:325:MET:CE	1:W:244:ASP:O	2.49	0.60
1:W:34:ILE:CD1	1:W:67:LEU:HD22	2.31	0.60
1:W:36:GLY:N	1:W:54:VAL:HG23	2.16	0.60
1:W:157:ASP:HB2	2:W:401:ADP:H5'1	1.83	0.60
1:A:36:GLY:N	1:A:54:VAL:HG23	2.16	0.60
1:B:61:LYS:HG2	1:B:64:ILE:HG21	1.83	0.60
1:B:133:TYR:OH	1:B:375:PHE:HB2	2.00	0.60
1:D:325:MET:CE	1:F:244:ASP:O	2.49	0.60
1:F:36:GLY:N	1:F:54:VAL:HG23	2.16	0.60
1:G:325:MET:CE	1:I:244:ASP:O	2.49	0.60
1:H:143:TYR:CD1	1:H:143:TYR:C	2.75	0.60
1:H:325:MET:CE	1:J:244:ASP:O	2.49	0.60
1:J:157:ASP:HB2	2:J:401:ADP:H5'1	1.83	0.60
1:N:133:TYR:OH	1:N:375:PHE:HB2	2.00	0.60
1:P:324:THR:HG21	1:R:241:GLU:CD	2.21	0.60
1:V:16:LEU:HD23	1:V:32:PRO:HA	1.83	0.60
1:A:132:MET:O	1:A:357:ILE:HB	2.01	0.60
1:E:16:LEU:HD23	1:E:32:PRO:HA	1.83	0.60
1:F:324:THR:HG21	1:H:241:GLU:CD	2.21	0.60
1:F:325:MET:CE	1:H:244:ASP:O	2.49	0.60
1:G:324:THR:CG2	1:I:241:GLU:OE2	2.50	0.60
1:H:132:MET:O	1:H:357:ILE:HB	2.01	0.60
1:J:133:TYR:OH	1:J:375:PHE:HB2	2.00	0.60
1:J:346:LEU:O	1:J:349:LEU:HB2	2.02	0.60
1:L:157:ASP:HB2	2:L:401:ADP:H5'1	1.83	0.60
1:M:34:ILE:CD1	1:M:67:LEU:HD22	2.31	0.60
1:M:324:THR:HG21	1:O:241:GLU:CD	2.21	0.60
1:P:133:TYR:OH	1:P:375:PHE:HB2	2.00	0.60
1:P:324:THR:CG2	1:R:241:GLU:OE2	2.50	0.60
1:S:65:LEU:C	1:S:65:LEU:HD12	2.21	0.60
1:W:65:LEU:C	1:W:65:LEU:HD12	2.21	0.60
1:A:288:ASP:HA	1:C:243:PRO:HB2	1.84	0.60
1:H:157:ASP:HB2	2:H:401:ADP:H5'1	1.83	0.60
1:H:346:LEU:O	1:H:349:LEU:HB2	2.02	0.60
1:I:346:LEU:O	1:I:349:LEU:HB2	2.02	0.60
1:K:288:ASP:HA	1:M:243:PRO:HB2	1.83	0.60
1:M:61:LYS:HG2	1:M:64:ILE:HG21	1.83	0.60
1:N:324:THR:HG21	1:P:241:GLU:CD	2.21	0.60
1:O:61:LYS:HG2	1:O:64:ILE:HG21	1.83	0.60
1:C:288:ASP:HA	1:E:243:PRO:HB2	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:34:ILE:CD1	1:D:67:LEU:HD22	2.31	0.60
1:D:65:LEU:C	1:D:65:LEU:HD12	2.21	0.60
1:G:324:THR:HG21	1:I:241:GLU:CD	2.21	0.60
1:K:36:GLY:N	1:K:54:VAL:HG23	2.16	0.60
1:L:324:THR:HG21	1:N:241:GLU:CD	2.21	0.60
1:L:346:LEU:O	1:L:349:LEU:HB2	2.02	0.60
1:M:16:LEU:HD23	1:M:32:PRO:HA	1.83	0.60
1:N:288:ASP:HA	1:P:243:PRO:HB2	1.83	0.60
1:O:44:MET:HG3	1:O:45:VAL:N	2.15	0.60
1:O:346:LEU:O	1:O:349:LEU:HB2	2.02	0.60
1:P:288:ASP:HA	1:R:243:PRO:HB2	1.84	0.60
1:R:133:TYR:OH	1:R:375:PHE:HB2	2.00	0.60
1:S:133:TYR:OH	1:S:375:PHE:HB2	2.00	0.60
1:S:346:LEU:O	1:S:349:LEU:HB2	2.02	0.60
1:W:133:TYR:OH	1:W:375:PHE:HB2	2.00	0.60
1:C:36:GLY:N	1:C:54:VAL:HG23	2.16	0.60
1:C:132:MET:O	1:C:357:ILE:HB	2.01	0.60
1:C:324:THR:HG21	1:E:241:GLU:CD	2.21	0.60
1:D:36:GLY:N	1:D:54:VAL:HG23	2.16	0.60
1:D:346:LEU:O	1:D:349:LEU:HB2	2.02	0.60
1:E:324:THR:CG2	1:G:241:GLU:OE2	2.50	0.60
1:G:36:GLY:N	1:G:54:VAL:HG23	2.16	0.60
1:H:16:LEU:HD23	1:H:32:PRO:HA	1.83	0.60
1:I:288:ASP:HA	1:K:243:PRO:HB2	1.84	0.60
1:I:324:THR:HG21	1:K:241:GLU:CD	2.21	0.60
1:J:34:ILE:CD1	1:J:67:LEU:HD22	2.31	0.60
1:K:34:ILE:CD1	1:K:67:LEU:HD22	2.31	0.60
1:K:61:LYS:HG2	1:K:64:ILE:HG21	1.83	0.60
1:L:44:MET:HG3	1:L:45:VAL:N	2.15	0.60
1:M:325:MET:CE	1:O:244:ASP:O	2.49	0.60
1:V:36:GLY:N	1:V:54:VAL:HG23	2.16	0.60
1:W:16:LEU:HD23	1:W:32:PRO:HA	1.83	0.60
1:A:324:THR:CG2	1:C:241:GLU:OE2	2.50	0.59
1:B:143:TYR:CD1	1:B:143:TYR:C	2.75	0.59
1:C:34:ILE:CD1	1:C:67:LEU:HD22	2.31	0.59
1:C:324:THR:CG2	1:E:241:GLU:OE2	2.50	0.59
1:H:104:LEU:HB2	1:H:356:TRP:HH2	1.63	0.59
1:H:287:ILE:CD1	1:J:208:ILE:CD1	2.80	0.59
1:I:324:THR:CG2	1:K:241:GLU:OE2	2.50	0.59
1:K:16:LEU:HD23	1:K:32:PRO:HA	1.83	0.59
1:L:133:TYR:OH	1:L:375:PHE:HB2	2.00	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:143:TYR:CD1	1:M:143:TYR:C	2.75	0.59
1:O:324:THR:HG21	1:Q:241:GLU:CD	2.21	0.59
1:Q:132:MET:O	1:Q:357:ILE:HB	2.01	0.59
1:S:34:ILE:CD1	1:S:67:LEU:HD22	2.31	0.59
1:T:104:LEU:HB2	1:T:356:TRP:HH2	1.63	0.59
1:U:16:LEU:HD23	1:U:32:PRO:HA	1.83	0.59
1:V:61:LYS:HG2	1:V:64:ILE:HG21	1.83	0.59
1:C:43:VAL:O	1:C:44:MET:CG	2.51	0.59
1:E:132:MET:O	1:E:357:ILE:HB	2.01	0.59
1:G:34:ILE:CD1	1:G:67:LEU:HD22	2.31	0.59
1:G:143:TYR:CD1	1:G:143:TYR:C	2.75	0.59
1:K:8:LEU:HB3	1:K:103:THR:HG23	1.84	0.59
1:M:288:ASP:HA	1:O:243:PRO:HB2	1.83	0.59
1:M:346:LEU:O	1:M:349:LEU:HB2	2.02	0.59
1:N:346:LEU:O	1:N:349:LEU:HB2	2.02	0.59
1:O:132:MET:O	1:O:357:ILE:HB	2.01	0.59
1:P:16:LEU:HD23	1:P:32:PRO:HA	1.83	0.59
1:Q:34:ILE:HB	1:Q:54:VAL:HG13	1.79	0.59
1:W:143:TYR:CD1	1:W:143:TYR:C	2.75	0.59
1:A:34:ILE:CD1	1:A:67:LEU:HD22	2.31	0.59
1:C:143:TYR:CD1	1:C:143:TYR:C	2.75	0.59
1:F:43:VAL:O	1:F:44:MET:CG	2.51	0.59
1:F:65:LEU:C	1:F:65:LEU:HD12	2.21	0.59
1:F:324:THR:CG2	1:H:241:GLU:OE2	2.50	0.59
1:H:43:VAL:O	1:H:44:MET:CG	2.51	0.59
1:I:8:LEU:HB3	1:I:103:THR:HG23	1.84	0.59
1:J:43:VAL:O	1:J:44:MET:CG	2.51	0.59
1:L:288:ASP:HA	1:N:243:PRO:HB2	1.84	0.59
1:N:43:VAL:O	1:N:44:MET:CG	2.51	0.59
1:N:287:ILE:CD1	1:P:208:ILE:CD1	2.80	0.59
1:O:34:ILE:CD1	1:O:67:LEU:HD22	2.31	0.59
1:Q:143:TYR:CD1	1:Q:143:TYR:C	2.75	0.59
1:R:143:TYR:CD1	1:R:143:TYR:C	2.75	0.59
1:R:287:ILE:HG13	1:R:288:ASP:OD1	2.03	0.59
1:R:324:THR:CG2	1:T:241:GLU:OE2	2.50	0.59
1:S:324:THR:CG2	1:U:241:GLU:OE2	2.50	0.59
1:T:43:VAL:O	1:T:44:MET:CG	2.51	0.59
1:U:324:THR:CG2	1:W:241:GLU:OE2	2.50	0.59
1:W:34:ILE:HB	1:W:54:VAL:HG13	1.79	0.59
1:W:346:LEU:O	1:W:349:LEU:HB2	2.02	0.59
1:A:16:LEU:HD23	1:A:32:PRO:HA	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:MET:CE	1:D:244:ASP:O	2.49	0.59
1:E:104:LEU:HB2	1:E:356:TRP:HH2	1.63	0.59
1:F:104:LEU:HB2	1:F:356:TRP:HH2	1.63	0.59
1:G:104:LEU:HB2	1:G:356:TRP:HH2	1.63	0.59
1:G:346:LEU:O	1:G:349:LEU:HB2	2.02	0.59
1:H:133:TYR:OH	1:H:375:PHE:HB2	2.00	0.59
1:I:61:LYS:HG2	1:I:64:ILE:HG21	1.83	0.59
1:K:290:ARG:HH11	1:M:244:ASP:CB	2.16	0.59
1:K:324:THR:CG2	1:M:241:GLU:OE2	2.50	0.59
1:M:8:LEU:HB3	1:M:103:THR:HG23	1.84	0.59
1:R:43:VAL:O	1:R:44:MET:CG	2.51	0.59
1:S:16:LEU:HD23	1:S:32:PRO:HA	1.83	0.59
1:S:132:MET:O	1:S:357:ILE:HB	2.01	0.59
1:V:43:VAL:O	1:V:44:MET:CG	2.51	0.59
1:A:346:LEU:O	1:A:349:LEU:HB2	2.02	0.59
1:B:324:THR:CG2	1:D:241:GLU:OE2	2.50	0.59
1:D:43:VAL:O	1:D:44:MET:CG	2.51	0.59
1:E:324:THR:HG21	1:G:241:GLU:CD	2.21	0.59
1:F:16:LEU:HD23	1:F:32:PRO:HA	1.83	0.59
1:G:8:LEU:HB3	1:G:103:THR:HG23	1.84	0.59
1:G:132:MET:O	1:G:357:ILE:HB	2.01	0.59
1:I:16:LEU:HD23	1:I:32:PRO:HA	1.83	0.59
1:J:16:LEU:HD23	1:J:32:PRO:HA	1.83	0.59
1:N:34:ILE:CD1	1:N:67:LEU:HD22	2.31	0.59
1:N:324:THR:CG2	1:P:241:GLU:OE2	2.50	0.59
1:O:208:ILE:HD11	1:O:243:PRO:HG2	1.85	0.59
1:O:287:ILE:HG13	1:O:288:ASP:OD1	2.03	0.59
1:Q:16:LEU:HD23	1:Q:32:PRO:HA	1.83	0.59
1:S:208:ILE:HD11	1:S:243:PRO:HG2	1.85	0.59
1:S:288:ASP:HA	1:U:243:PRO:HB2	1.83	0.59
1:T:290:ARG:HH11	1:V:244:ASP:CB	2.16	0.59
1:A:64:ILE:HG23	1:A:65:LEU:N	2.18	0.59
1:B:16:LEU:HD23	1:B:32:PRO:HA	1.83	0.59
1:B:44:MET:HG3	1:B:45:VAL:N	2.15	0.59
1:D:324:THR:CG2	1:F:241:GLU:OE2	2.50	0.59
1:E:64:ILE:HG23	1:E:65:LEU:N	2.18	0.59
1:F:288:ASP:HA	1:H:243:PRO:HB2	1.84	0.59
1:H:324:THR:CG2	1:J:241:GLU:OE2	2.50	0.59
1:I:143:TYR:CD1	1:I:143:TYR:C	2.75	0.59
1:I:287:ILE:HG13	1:I:288:ASP:OD1	2.03	0.59
1:J:362:TYR:O	1:J:366:GLY:CA	2.51	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:361:GLU:HB3	1:K:369:ILE:CD1	2.14	0.59
1:M:132:MET:O	1:M:357:ILE:HB	2.01	0.59
1:P:34:ILE:CD1	1:P:67:LEU:HD22	2.31	0.59
1:P:43:VAL:O	1:P:44:MET:CG	2.51	0.59
1:P:64:ILE:HG23	1:P:65:LEU:N	2.18	0.59
1:P:287:ILE:HG13	1:P:288:ASP:OD1	2.03	0.59
1:P:346:LEU:O	1:P:349:LEU:HB2	2.02	0.59
1:Q:208:ILE:HD11	1:Q:243:PRO:HG2	1.85	0.59
1:R:362:TYR:O	1:R:366:GLY:CA	2.51	0.59
1:U:43:VAL:O	1:U:44:MET:CG	2.51	0.59
1:V:346:LEU:O	1:V:349:LEU:HB2	2.02	0.59
1:B:43:VAL:O	1:B:44:MET:CG	2.51	0.59
1:D:16:LEU:HD23	1:D:32:PRO:HA	1.83	0.59
1:F:143:TYR:CD1	1:F:143:TYR:C	2.75	0.59
1:G:43:VAL:O	1:G:44:MET:CG	2.51	0.59
1:J:324:THR:CG2	1:L:241:GLU:OE2	2.50	0.59
1:L:16:LEU:HD23	1:L:32:PRO:HA	1.83	0.59
1:L:287:ILE:HG13	1:L:288:ASP:OD1	2.03	0.59
1:L:362:TYR:O	1:L:366:GLY:CA	2.51	0.59
1:M:208:ILE:HD11	1:M:243:PRO:HG2	1.85	0.59
1:N:287:ILE:HG13	1:N:288:ASP:OD1	2.03	0.59
1:O:8:LEU:HB3	1:O:103:THR:HG23	1.84	0.59
1:Q:34:ILE:CD1	1:Q:67:LEU:HD22	2.31	0.59
1:S:43:VAL:O	1:S:44:MET:CG	2.51	0.59
1:T:324:THR:CG2	1:V:241:GLU:OE2	2.50	0.59
1:U:65:LEU:C	1:U:65:LEU:HD12	2.21	0.59
1:B:290:ARG:HH11	1:D:244:ASP:CB	2.16	0.59
1:C:362:TYR:O	1:C:366:GLY:CA	2.51	0.59
1:E:8:LEU:HB3	1:E:103:THR:HG23	1.84	0.59
1:E:34:ILE:CD1	1:E:67:LEU:HD22	2.31	0.59
1:E:223:PHE:CE1	1:E:259:GLU:HG2	2.38	0.59
1:J:104:LEU:HB2	1:J:356:TRP:HH2	1.63	0.59
1:L:43:VAL:O	1:L:44:MET:CG	2.51	0.59
1:L:223:PHE:CE1	1:L:259:GLU:HG2	2.38	0.59
1:L:287:ILE:CD1	1:N:208:ILE:CD1	2.80	0.59
1:N:362:TYR:O	1:N:366:GLY:CA	2.51	0.59
1:P:223:PHE:CE1	1:P:259:GLU:HG2	2.38	0.59
1:P:362:TYR:O	1:P:366:GLY:CA	2.51	0.59
1:S:287:ILE:CD1	1:U:208:ILE:CD1	2.80	0.59
1:T:287:ILE:HG13	1:T:288:ASP:OD1	2.03	0.59
1:U:346:LEU:O	1:U:349:LEU:HB2	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:43:VAL:O	1:W:44:MET:CG	2.51	0.59
1:W:223:PHE:CE1	1:W:259:GLU:HG2	2.38	0.59
1:W:287:ILE:HG13	1:W:288:ASP:OD1	2.03	0.59
1:D:287:ILE:HG13	1:D:288:ASP:OD1	2.03	0.59
1:D:288:ASP:HA	1:F:243:PRO:HB2	1.84	0.59
1:F:346:LEU:O	1:F:349:LEU:HB2	2.02	0.59
1:I:104:LEU:HB2	1:I:356:TRP:HH2	1.62	0.59
1:J:287:ILE:HG13	1:J:288:ASP:OD1	2.03	0.59
1:K:132:MET:O	1:K:357:ILE:HB	2.01	0.59
1:L:64:ILE:HG23	1:L:65:LEU:N	2.18	0.59
1:O:324:THR:CG2	1:Q:241:GLU:OE2	2.50	0.59
1:P:287:ILE:CD1	1:R:208:ILE:CD1	2.80	0.59
1:R:361:GLU:HB3	1:R:369:ILE:CD1	2.14	0.59
1:U:208:ILE:HD11	1:U:243:PRO:HG2	1.85	0.59
1:U:287:ILE:HG13	1:U:288:ASP:OD1	2.03	0.59
1:U:288:ASP:HA	1:W:243:PRO:HB2	1.84	0.59
1:A:133:TYR:OH	1:A:375:PHE:HB2	2.00	0.59
1:E:290:ARG:HH11	1:G:244:ASP:CB	2.16	0.59
1:E:362:TYR:O	1:E:366:GLY:CA	2.51	0.59
1:F:223:PHE:CE1	1:F:259:GLU:HG2	2.38	0.59
1:G:324:THR:HG21	1:I:241:GLU:OE2	2.03	0.59
1:I:132:MET:O	1:I:357:ILE:HB	2.01	0.59
1:I:324:THR:HG21	1:K:241:GLU:OE2	2.03	0.59
1:J:8:LEU:HB3	1:J:103:THR:HG23	1.84	0.59
1:J:223:PHE:CE1	1:J:259:GLU:HG2	2.38	0.59
1:J:288:ASP:HA	1:L:243:PRO:HB2	1.83	0.59
1:K:208:ILE:HD11	1:K:243:PRO:HG2	1.85	0.59
1:L:34:ILE:CD1	1:L:67:LEU:HD22	2.31	0.59
1:L:324:THR:CG2	1:N:241:GLU:OE2	2.50	0.59
1:M:324:THR:CG2	1:O:241:GLU:OE2	2.50	0.59
1:N:143:TYR:CD1	1:N:143:TYR:C	2.75	0.59
1:O:223:PHE:CE1	1:O:259:GLU:HG2	2.38	0.59
1:Q:287:ILE:HG13	1:Q:288:ASP:OD1	2.03	0.59
1:Q:288:ASP:HA	1:S:243:PRO:HB2	1.84	0.59
1:Q:324:THR:CG2	1:S:241:GLU:OE2	2.50	0.59
1:R:34:ILE:HB	1:R:54:VAL:HG13	1.80	0.59
1:S:287:ILE:HG13	1:S:288:ASP:OD1	2.03	0.59
1:T:16:LEU:HD23	1:T:32:PRO:HA	1.83	0.59
1:T:64:ILE:HG23	1:T:65:LEU:N	2.18	0.59
1:V:8:LEU:HB3	1:V:103:THR:HG23	1.84	0.59
1:V:287:ILE:HG13	1:V:288:ASP:OD1	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:8:LEU:HB3	1:W:103:THR:HG23	1.84	0.59
1:A:362:TYR:O	1:A:366:GLY:CA	2.51	0.58
1:B:208:ILE:HD11	1:B:243:PRO:HG2	1.85	0.58
1:E:324:THR:HG21	1:G:241:GLU:OE2	2.03	0.58
1:H:287:ILE:HG13	1:H:288:ASP:OD1	2.03	0.58
1:H:288:ASP:HA	1:J:243:PRO:HB2	1.84	0.58
1:I:34:ILE:HB	1:I:54:VAL:HG13	1.80	0.58
1:K:223:PHE:CE1	1:K:259:GLU:HG2	2.38	0.58
1:L:8:LEU:HB3	1:L:103:THR:HG23	1.84	0.58
1:M:290:ARG:HH11	1:O:244:ASP:CB	2.16	0.58
1:Q:43:VAL:O	1:Q:44:MET:CG	2.51	0.58
1:Q:223:PHE:CE1	1:Q:259:GLU:HG2	2.38	0.58
1:Q:290:ARG:HH11	1:S:244:ASP:CB	2.16	0.58
1:T:143:TYR:CD1	1:T:143:TYR:C	2.75	0.58
1:T:362:TYR:O	1:T:366:GLY:CA	2.51	0.58
1:V:223:PHE:CE1	1:V:259:GLU:HG2	2.38	0.58
1:A:223:PHE:CE1	1:A:259:GLU:HG2	2.38	0.58
1:C:324:THR:HG21	1:E:241:GLU:OE2	2.03	0.58
1:D:223:PHE:CE1	1:D:259:GLU:HG2	2.38	0.58
1:F:287:ILE:CD1	1:H:208:ILE:CD1	2.80	0.58
1:F:287:ILE:HG13	1:F:288:ASP:OD1	2.03	0.58
1:I:223:PHE:CE1	1:I:259:GLU:HG2	2.38	0.58
1:I:290:ARG:HH11	1:K:244:ASP:CB	2.16	0.58
1:J:64:ILE:HG23	1:J:65:LEU:N	2.18	0.58
1:K:287:ILE:HG13	1:K:288:ASP:OD1	2.03	0.58
1:K:324:THR:HG21	1:M:241:GLU:OE2	2.03	0.58
1:N:16:LEU:HD23	1:N:32:PRO:HA	1.83	0.58
1:O:288:ASP:HA	1:Q:243:PRO:HB2	1.83	0.58
1:R:287:ILE:CD1	1:T:208:ILE:CD1	2.80	0.58
1:R:290:ARG:HH11	1:T:244:ASP:CB	2.16	0.58
1:U:223:PHE:CE1	1:U:259:GLU:HG2	2.38	0.58
1:U:362:TYR:O	1:U:366:GLY:CA	2.51	0.58
1:W:362:TYR:O	1:W:366:GLY:CA	2.51	0.58
1:B:8:LEU:HB3	1:B:103:THR:HG23	1.84	0.58
1:B:34:ILE:CD1	1:B:67:LEU:HD22	2.31	0.58
1:B:38:PRO:CD	1:B:49:GLN:HE22	2.17	0.58
1:B:288:ASP:HA	1:D:243:PRO:HB2	1.83	0.58
1:C:104:LEU:HB2	1:C:356:TRP:HH2	1.63	0.58
1:C:287:ILE:CD1	1:E:208:ILE:CD1	2.80	0.58
1:C:290:ARG:HH11	1:E:244:ASP:CB	2.16	0.58
1:G:290:ARG:HH11	1:I:244:ASP:CB	2.16	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:362:TYR:O	1:G:366:GLY:CA	2.51	0.58
1:H:44:MET:HG3	1:H:45:VAL:N	2.15	0.58
1:H:290:ARG:HH11	1:J:244:ASP:CB	2.16	0.58
1:K:38:PRO:CD	1:K:49:GLN:HE22	2.17	0.58
1:K:287:ILE:CD1	1:M:208:ILE:CD1	2.80	0.58
1:L:143:TYR:CD1	1:L:143:TYR:C	2.75	0.58
1:M:38:PRO:CD	1:M:49:GLN:HE22	2.17	0.58
1:Q:8:LEU:HB3	1:Q:103:THR:HG23	1.84	0.58
1:R:324:THR:HG21	1:T:241:GLU:OE2	2.03	0.58
1:U:44:MET:HG3	1:U:45:VAL:N	2.15	0.58
1:U:64:ILE:HG23	1:U:65:LEU:N	2.18	0.58
1:A:324:THR:HG21	1:C:241:GLU:OE2	2.03	0.58
1:B:34:ILE:HB	1:B:54:VAL:HG13	1.79	0.58
1:B:64:ILE:HG23	1:B:65:LEU:N	2.18	0.58
1:C:16:LEU:HD23	1:C:32:PRO:HA	1.83	0.58
1:D:104:LEU:HB2	1:D:356:TRP:HH2	1.63	0.58
1:F:362:TYR:O	1:F:366:GLY:CA	2.51	0.58
1:H:8:LEU:HB3	1:H:103:THR:HG23	1.84	0.58
1:L:336:LYS:CE	2:L:401:ADP:H5'2	2.34	0.58
1:M:43:VAL:O	1:M:44:MET:CG	2.51	0.58
1:M:104:LEU:HB2	1:M:356:TRP:HH2	1.63	0.58
1:N:64:ILE:HG23	1:N:65:LEU:N	2.18	0.58
1:N:336:LYS:CE	2:N:401:ADP:H5'2	2.34	0.58
1:S:104:LEU:HB2	1:S:356:TRP:HH2	1.63	0.58
1:U:8:LEU:HB3	1:U:103:THR:HG23	1.84	0.58
1:V:38:PRO:CD	1:V:49:GLN:HE22	2.17	0.58
1:W:208:ILE:HD11	1:W:243:PRO:HG2	1.85	0.58
1:A:8:LEU:HB3	1:A:103:THR:HG23	1.84	0.58
1:A:43:VAL:O	1:A:44:MET:CG	2.51	0.58
1:B:361:GLU:HB3	1:B:369:ILE:CD1	2.14	0.58
1:D:8:LEU:HB3	1:D:103:THR:HG23	1.84	0.58
1:E:43:VAL:O	1:E:44:MET:CG	2.51	0.58
1:E:143:TYR:CD1	1:E:143:TYR:C	2.75	0.58
1:G:34:ILE:HB	1:G:54:VAL:HG13	1.79	0.58
1:J:290:ARG:HH11	1:L:244:ASP:CB	2.16	0.58
1:O:16:LEU:HD23	1:O:32:PRO:HA	1.83	0.58
1:O:43:VAL:O	1:O:44:MET:CG	2.51	0.58
1:T:223:PHE:CE1	1:T:259:GLU:HG2	2.38	0.58
1:U:143:TYR:CD1	1:U:143:TYR:C	2.75	0.58
1:U:287:ILE:CD1	1:W:208:ILE:CD1	2.80	0.58
1:U:336:LYS:CE	2:U:401:ADP:H5'2	2.34	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:208:ILE:HD11	1:V:243:PRO:HG2	1.85	0.58
1:B:287:ILE:HG13	1:B:288:ASP:OD1	2.03	0.58
1:C:8:LEU:HB3	1:C:103:THR:HG23	1.84	0.58
1:D:64:ILE:HG23	1:D:65:LEU:N	2.18	0.58
1:D:208:ILE:HD11	1:D:243:PRO:HG2	1.85	0.58
1:D:287:ILE:CD1	1:F:208:ILE:CD1	2.80	0.58
1:E:287:ILE:CD1	1:G:208:ILE:CD1	2.80	0.58
1:E:336:LYS:CE	2:E:401:ADP:H5'2	2.34	0.58
1:G:223:PHE:CE1	1:G:259:GLU:HG2	2.38	0.58
1:H:362:TYR:O	1:H:366:GLY:CA	2.51	0.58
1:I:362:TYR:O	1:I:366:GLY:CA	2.51	0.58
1:J:324:THR:HG21	1:L:241:GLU:OE2	2.03	0.58
1:M:324:THR:HG21	1:O:241:GLU:OE2	2.04	0.58
1:N:8:LEU:HB3	1:N:103:THR:HG23	1.84	0.58
1:N:34:ILE:CG2	1:N:67:LEU:HB3	2.34	0.58
1:O:38:PRO:CD	1:O:49:GLN:HE22	2.17	0.58
1:W:64:ILE:HG23	1:W:65:LEU:N	2.18	0.58
1:C:287:ILE:HG13	1:C:288:ASP:OD1	2.03	0.58
1:D:290:ARG:HH11	1:F:244:ASP:CB	2.16	0.58
1:E:287:ILE:HG13	1:E:288:ASP:OD1	2.03	0.58
1:F:8:LEU:HB3	1:F:103:THR:HG23	1.84	0.58
1:I:43:VAL:O	1:I:44:MET:CG	2.51	0.58
1:I:208:ILE:HD11	1:I:243:PRO:HG2	1.85	0.58
1:K:43:VAL:O	1:K:44:MET:CG	2.51	0.58
1:L:324:THR:HG21	1:N:241:GLU:OE2	2.03	0.58
1:M:287:ILE:HG13	1:M:288:ASP:OD1	2.03	0.58
1:Q:287:ILE:CD1	1:S:208:ILE:CD1	2.80	0.58
1:S:38:PRO:CD	1:S:49:GLN:HE22	2.17	0.58
1:S:290:ARG:HH11	1:U:244:ASP:CB	2.16	0.58
1:S:336:LYS:CE	2:S:401:ADP:H5'2	2.34	0.58
1:T:208:ILE:HD11	1:T:243:PRO:HG2	1.85	0.58
1:D:38:PRO:CD	1:D:49:GLN:HE22	2.17	0.58
1:E:4:GLU:O	1:E:5:THR:HB	2.04	0.58
1:G:287:ILE:HG13	1:G:288:ASP:OD1	2.03	0.58
1:G:336:LYS:CE	2:G:401:ADP:H5'2	2.34	0.58
1:H:324:THR:HG21	1:J:241:GLU:OE2	2.03	0.58
1:I:64:ILE:HG23	1:I:65:LEU:N	2.18	0.58
1:J:336:LYS:CE	2:J:401:ADP:H5'2	2.34	0.58
1:L:4:GLU:O	1:L:5:THR:HB	2.04	0.58
1:M:362:TYR:O	1:M:366:GLY:CA	2.51	0.58
1:N:324:THR:HG21	1:P:241:GLU:OE2	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:34:ILE:CG2	1:P:67:LEU:HB3	2.34	0.58
1:P:290:ARG:HH11	1:R:244:ASP:CB	2.16	0.58
1:P:336:LYS:CE	2:P:401:ADP:H5'2	2.34	0.58
1:T:8:LEU:HB3	1:T:103:THR:HG23	1.84	0.58
1:T:38:PRO:CD	1:T:49:GLN:HE22	2.17	0.58
1:W:336:LYS:CE	2:W:401:ADP:H5'2	2.34	0.58
1:C:336:LYS:CE	2:C:401:ADP:H5'2	2.34	0.58
1:D:368:SER:O	1:D:371:HIS:N	2.37	0.58
1:F:64:ILE:HG23	1:F:65:LEU:N	2.18	0.58
1:F:324:THR:HG21	1:H:241:GLU:OE2	2.03	0.58
1:H:64:ILE:HG23	1:H:65:LEU:N	2.18	0.58
1:H:223:PHE:CE1	1:H:259:GLU:HG2	2.38	0.58
1:J:4:GLU:O	1:J:5:THR:HB	2.04	0.58
1:O:34:ILE:HG21	1:O:67:LEU:CB	2.34	0.58
1:O:362:TYR:O	1:O:366:GLY:CA	2.51	0.58
1:P:4:GLU:O	1:P:5:THR:HB	2.04	0.58
1:P:324:THR:HG21	1:R:241:GLU:OE2	2.03	0.58
1:Q:362:TYR:O	1:Q:366:GLY:CA	2.51	0.58
1:R:34:ILE:CG2	1:R:67:LEU:HB3	2.34	0.58
1:R:208:ILE:HD11	1:R:243:PRO:HG2	1.85	0.58
1:R:223:PHE:CE1	1:R:259:GLU:HG2	2.38	0.58
1:S:368:SER:O	1:S:371:HIS:N	2.37	0.58
1:U:38:PRO:CD	1:U:49:GLN:HE22	2.17	0.58
1:W:4:GLU:O	1:W:5:THR:HB	2.04	0.58
1:A:4:GLU:O	1:A:5:THR:HB	2.04	0.58
1:B:34:ILE:CG2	1:B:67:LEU:HB3	2.34	0.58
1:B:362:TYR:O	1:B:366:GLY:CA	2.51	0.58
1:D:34:ILE:CG2	1:D:67:LEU:HB3	2.34	0.58
1:F:290:ARG:HH11	1:H:244:ASP:CB	2.16	0.58
1:G:4:GLU:O	1:G:5:THR:HB	2.04	0.58
1:I:38:PRO:CD	1:I:49:GLN:HE22	2.17	0.58
1:L:34:ILE:CG2	1:L:67:LEU:HB3	2.34	0.58
1:M:34:ILE:HG21	1:M:67:LEU:CB	2.34	0.58
1:M:223:PHE:CE1	1:M:259:GLU:HG2	2.38	0.58
1:N:290:ARG:HH11	1:P:244:ASP:CB	2.16	0.58
1:O:64:ILE:HG23	1:O:65:LEU:N	2.18	0.58
1:P:8:LEU:HB3	1:P:103:THR:HG23	1.84	0.58
1:P:143:TYR:CD1	1:P:143:TYR:C	2.75	0.58
1:Q:34:ILE:HG21	1:Q:67:LEU:CB	2.34	0.58
1:U:290:ARG:HH11	1:W:244:ASP:CB	2.16	0.58
1:V:362:TYR:O	1:V:366:GLY:CA	2.51	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:ARG:HH11	1:C:244:ASP:CB	2.16	0.57
1:B:223:PHE:CE1	1:B:259:GLU:HG2	2.38	0.57
1:B:324:THR:HG21	1:D:241:GLU:OE2	2.03	0.57
1:D:324:THR:HG21	1:F:241:GLU:OE2	2.03	0.57
1:D:362:TYR:O	1:D:366:GLY:CA	2.51	0.57
1:F:34:ILE:CG2	1:F:67:LEU:HB3	2.34	0.57
1:F:208:ILE:HD11	1:F:243:PRO:HG2	1.85	0.57
1:I:336:LYS:CE	2:I:401:ADP:H5'2	2.34	0.57
1:K:104:LEU:HB2	1:K:356:TRP:HH2	1.63	0.57
1:N:4:GLU:O	1:N:5:THR:HB	2.04	0.57
1:O:324:THR:HG21	1:Q:241:GLU:OE2	2.03	0.57
1:Q:38:PRO:CD	1:Q:49:GLN:HE22	2.17	0.57
1:Q:64:ILE:HG23	1:Q:65:LEU:N	2.18	0.57
1:Q:324:THR:HG21	1:S:241:GLU:OE2	2.03	0.57
1:R:34:ILE:HG21	1:R:67:LEU:CB	2.34	0.57
1:S:34:ILE:HG21	1:S:67:LEU:CB	2.34	0.57
1:S:223:PHE:CE1	1:S:259:GLU:HG2	2.38	0.57
1:T:34:ILE:HG21	1:T:67:LEU:CB	2.34	0.57
1:T:361:GLU:HB3	1:T:369:ILE:CD1	2.14	0.57
1:T:368:SER:O	1:T:371:HIS:N	2.37	0.57
1:A:143:TYR:CD1	1:A:143:TYR:C	2.75	0.57
1:A:287:ILE:CD1	1:C:208:ILE:CD1	2.80	0.57
1:A:287:ILE:HG13	1:A:288:ASP:OD1	2.03	0.57
1:B:287:ILE:CD1	1:D:208:ILE:CD1	2.80	0.57
1:B:336:LYS:CE	2:B:401:ADP:H5'2	2.34	0.57
1:C:4:GLU:O	1:C:5:THR:HB	2.04	0.57
1:C:38:PRO:CD	1:C:49:GLN:HE22	2.17	0.57
1:C:223:PHE:CE1	1:C:259:GLU:HG2	2.38	0.57
1:E:38:PRO:CD	1:E:49:GLN:HE22	2.17	0.57
1:G:34:ILE:CG2	1:G:67:LEU:HB3	2.34	0.57
1:G:64:ILE:HG23	1:G:65:LEU:N	2.18	0.57
1:H:4:GLU:O	1:H:5:THR:HB	2.04	0.57
1:H:34:ILE:HG21	1:H:67:LEU:CB	2.34	0.57
1:K:34:ILE:HG21	1:K:67:LEU:CB	2.34	0.57
1:K:64:ILE:HG23	1:K:65:LEU:N	2.18	0.57
1:K:362:TYR:O	1:K:366:GLY:CA	2.51	0.57
1:N:34:ILE:HG21	1:N:67:LEU:CB	2.34	0.57
1:O:368:SER:O	1:O:371:HIS:N	2.37	0.57
1:P:208:ILE:HD11	1:P:243:PRO:HG2	1.85	0.57
1:S:362:TYR:O	1:S:366:GLY:CA	2.51	0.57
1:V:34:ILE:HG21	1:V:67:LEU:CB	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:HIS:O	1:A:41:GLN:C	2.43	0.57
1:C:64:ILE:HG23	1:C:65:LEU:N	2.18	0.57
1:D:336:LYS:CE	2:D:401:ADP:H5'2	2.34	0.57
1:E:40:HIS:O	1:E:41:GLN:C	2.43	0.57
1:I:34:ILE:CG2	1:I:67:LEU:HB3	2.34	0.57
1:J:34:ILE:HG21	1:J:67:LEU:CB	2.34	0.57
1:J:38:PRO:CD	1:J:49:GLN:HE22	2.17	0.57
1:L:34:ILE:HG21	1:L:67:LEU:CB	2.34	0.57
1:L:40:HIS:O	1:L:41:GLN:C	2.43	0.57
1:P:34:ILE:HG21	1:P:67:LEU:CB	2.34	0.57
1:Q:336:LYS:CE	2:Q:401:ADP:H5'2	2.34	0.57
1:S:4:GLU:O	1:S:5:THR:HB	2.04	0.57
1:W:34:ILE:CG2	1:W:67:LEU:HB3	2.34	0.57
1:E:34:ILE:CG2	1:E:67:LEU:HB3	2.34	0.57
1:F:34:ILE:HG21	1:F:67:LEU:CB	2.34	0.57
1:F:38:PRO:CD	1:F:49:GLN:HE22	2.16	0.57
1:H:38:PRO:CD	1:H:49:GLN:HE22	2.17	0.57
1:I:34:ILE:HG21	1:I:67:LEU:CB	2.34	0.57
1:L:290:ARG:HH11	1:N:244:ASP:CB	2.16	0.57
1:N:208:ILE:HD11	1:N:243:PRO:HG2	1.85	0.57
1:N:223:PHE:CE1	1:N:259:GLU:HG2	2.38	0.57
1:P:40:HIS:O	1:P:41:GLN:C	2.43	0.57
1:R:336:LYS:CE	2:R:401:ADP:H5'2	2.34	0.57
1:T:40:HIS:O	1:T:41:GLN:C	2.43	0.57
1:T:287:ILE:CD1	1:V:208:ILE:CD1	2.80	0.57
1:U:34:ILE:HG21	1:U:67:LEU:CB	2.34	0.57
1:U:34:ILE:CG2	1:U:67:LEU:HB3	2.34	0.57
1:W:40:HIS:O	1:W:41:GLN:C	2.43	0.57
1:A:34:ILE:CG2	1:A:67:LEU:HB3	2.34	0.57
1:H:34:ILE:CG2	1:H:67:LEU:HB3	2.34	0.57
1:H:336:LYS:CE	2:H:401:ADP:H5'2	2.34	0.57
1:J:287:ILE:CD1	1:L:208:ILE:CD1	2.80	0.57
1:L:38:PRO:CD	1:L:49:GLN:HE22	2.17	0.57
1:L:208:ILE:HD11	1:L:243:PRO:HG2	1.85	0.57
1:R:64:ILE:HG23	1:R:65:LEU:N	2.18	0.57
1:S:8:LEU:HB3	1:S:103:THR:HG23	1.84	0.57
1:V:34:ILE:CG2	1:V:67:LEU:HB3	2.34	0.57
1:V:336:LYS:CE	2:V:401:ADP:H5'2	2.34	0.57
1:A:38:PRO:CD	1:A:49:GLN:HE22	2.17	0.57
1:A:208:ILE:HD11	1:A:243:PRO:HG2	1.85	0.57
1:B:34:ILE:HG21	1:B:67:LEU:CB	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:LEU:HB2	1:B:356:TRP:HH2	1.63	0.57
1:C:208:ILE:HD11	1:C:243:PRO:HG2	1.85	0.57
1:F:336:LYS:CE	2:F:401:ADP:H5'2	2.34	0.57
1:G:208:ILE:HD11	1:G:243:PRO:HG2	1.85	0.57
1:H:40:HIS:O	1:H:41:GLN:C	2.43	0.57
1:I:287:ILE:CD1	1:K:208:ILE:CD1	2.80	0.57
1:J:143:TYR:CD1	1:J:143:TYR:C	2.75	0.57
1:O:290:ARG:HH11	1:Q:244:ASP:CB	2.16	0.57
1:Q:4:GLU:O	1:Q:5:THR:HB	2.04	0.57
1:Q:143:TYR:HD2	1:Q:346:LEU:HD13	1.70	0.57
1:T:4:GLU:O	1:T:5:THR:HB	2.04	0.57
1:T:34:ILE:CG2	1:T:67:LEU:HB3	2.34	0.57
1:T:324:THR:HG21	1:V:241:GLU:OE2	2.03	0.57
1:U:4:GLU:O	1:U:5:THR:HB	2.04	0.57
1:W:38:PRO:CD	1:W:49:GLN:HE22	2.17	0.57
1:A:336:LYS:CE	2:A:401:ADP:H5'2	2.34	0.57
1:D:34:ILE:HG21	1:D:67:LEU:CB	2.34	0.57
1:H:208:ILE:HD11	1:H:243:PRO:HG2	1.85	0.57
1:J:208:ILE:HD11	1:J:243:PRO:HG2	1.85	0.57
1:R:8:LEU:HB3	1:R:103:THR:HG23	1.84	0.57
1:V:4:GLU:O	1:V:5:THR:HB	2.04	0.57
1:G:34:ILE:HG21	1:G:67:LEU:CB	2.34	0.57
1:G:38:PRO:CD	1:G:49:GLN:HE22	2.17	0.57
1:H:143:TYR:HD2	1:H:346:LEU:HD13	1.70	0.57
1:I:4:GLU:O	1:I:5:THR:HB	2.04	0.57
1:I:40:HIS:O	1:I:41:GLN:C	2.43	0.57
1:J:143:TYR:HD2	1:J:346:LEU:HD13	1.70	0.57
1:K:34:ILE:CG2	1:K:67:LEU:HB3	2.34	0.57
1:K:336:LYS:CE	2:K:401:ADP:H5'2	2.34	0.57
1:K:368:SER:O	1:K:371:HIS:N	2.37	0.57
1:N:38:PRO:CD	1:N:49:GLN:HE22	2.17	0.57
1:O:34:ILE:CG2	1:O:67:LEU:HB3	2.34	0.57
1:R:38:PRO:CD	1:R:49:GLN:HE22	2.17	0.57
1:S:143:TYR:HD2	1:S:346:LEU:HD13	1.70	0.57
1:S:324:THR:HG21	1:U:241:GLU:OE2	2.03	0.57
1:U:324:THR:HG21	1:W:241:GLU:OE2	2.03	0.57
1:J:34:ILE:CG2	1:J:67:LEU:HB3	2.34	0.57
1:M:34:ILE:CG2	1:M:67:LEU:HB3	2.34	0.57
1:O:143:TYR:HD2	1:O:346:LEU:HD13	1.70	0.57
1:O:287:ILE:CD1	1:Q:208:ILE:CD1	2.80	0.57
1:O:336:LYS:CE	2:O:401:ADP:H5'2	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:34:ILE:CG2	1:Q:67:LEU:HB3	2.34	0.57
1:S:34:ILE:CG2	1:S:67:LEU:HB3	2.34	0.57
1:T:336:LYS:CE	2:T:401:ADP:H5'2	2.34	0.57
1:C:34:ILE:CG2	1:C:67:LEU:HB3	2.34	0.57
1:M:64:ILE:HG23	1:M:65:LEU:N	2.18	0.57
1:P:38:PRO:CD	1:P:49:GLN:HE22	2.16	0.57
1:S:40:HIS:O	1:S:41:GLN:C	2.43	0.57
1:S:64:ILE:HG23	1:S:65:LEU:N	2.18	0.57
1:V:64:ILE:HG23	1:V:65:LEU:N	2.18	0.57
1:W:34:ILE:HG21	1:W:67:LEU:CB	2.34	0.57
1:B:143:TYR:CZ	1:D:45:VAL:CG2	2.88	0.56
1:B:290:ARG:HH11	1:D:244:ASP:HB2	1.71	0.56
1:G:290:ARG:HH11	1:I:244:ASP:HB2	1.70	0.56
1:I:290:ARG:HH11	1:K:244:ASP:HB2	1.70	0.56
1:M:287:ILE:CD1	1:O:208:ILE:CD1	2.80	0.56
1:O:4:GLU:O	1:O:5:THR:HB	2.04	0.56
1:R:4:GLU:O	1:R:5:THR:HB	2.04	0.56
1:U:143:TYR:HD2	1:U:346:LEU:HD13	1.70	0.56
1:A:34:ILE:HG21	1:A:67:LEU:CB	2.34	0.56
1:B:4:GLU:O	1:B:5:THR:HB	2.04	0.56
1:D:4:GLU:O	1:D:5:THR:HB	2.04	0.56
1:D:290:ARG:HH11	1:F:244:ASP:HB2	1.70	0.56
1:E:208:ILE:HD11	1:E:243:PRO:HG2	1.85	0.56
1:E:290:ARG:HH11	1:G:244:ASP:HB2	1.70	0.56
1:K:290:ARG:HH11	1:M:244:ASP:HB2	1.70	0.56
1:C:40:HIS:O	1:C:41:GLN:C	2.43	0.56
1:C:368:SER:O	1:C:371:HIS:N	2.37	0.56
1:E:34:ILE:HG21	1:E:67:LEU:CB	2.34	0.56
1:F:143:TYR:HD2	1:F:346:LEU:HD13	1.70	0.56
1:G:368:SER:O	1:G:371:HIS:N	2.37	0.56
1:J:40:HIS:O	1:J:41:GLN:C	2.43	0.56
1:L:143:TYR:HD2	1:L:346:LEU:HD13	1.70	0.56
1:M:4:GLU:O	1:M:5:THR:HB	2.04	0.56
1:N:34:ILE:HB	1:N:54:VAL:HG13	1.80	0.56
1:N:368:SER:O	1:N:371:HIS:N	2.37	0.56
1:R:290:ARG:HH11	1:T:244:ASP:HB2	1.70	0.56
1:T:143:TYR:CZ	1:V:45:VAL:CG2	2.88	0.56
1:C:34:ILE:HG21	1:C:67:LEU:CB	2.34	0.56
1:F:40:HIS:O	1:F:41:GLN:C	2.43	0.56
1:G:287:ILE:CD1	1:I:208:ILE:CD1	2.80	0.56
1:M:336:LYS:CE	2:M:401:ADP:H5'2	2.34	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:40:HIS:O	1:N:41:GLN:C	2.43	0.56
1:O:143:TYR:CZ	1:Q:45:VAL:CG2	2.88	0.56
1:P:290:ARG:HH11	1:R:244:ASP:HB2	1.70	0.56
1:Q:143:TYR:CZ	1:S:45:VAL:CG2	2.88	0.56
1:R:368:SER:O	1:R:371:HIS:N	2.37	0.56
1:U:40:HIS:O	1:U:41:GLN:C	2.43	0.56
1:V:368:SER:O	1:V:371:HIS:N	2.37	0.56
1:D:40:HIS:O	1:D:41:GLN:C	2.43	0.56
1:M:40:HIS:O	1:M:41:GLN:C	2.43	0.56
1:M:143:TYR:CZ	1:O:45:VAL:CG2	2.88	0.56
1:Q:290:ARG:HH11	1:S:244:ASP:HB2	1.70	0.56
1:S:290:ARG:HH11	1:U:244:ASP:HB2	1.70	0.56
1:U:290:ARG:HH11	1:W:244:ASP:HB2	1.70	0.56
1:A:116:ARG:HD3	1:A:370:VAL:HG13	1.88	0.56
1:B:40:HIS:O	1:B:41:GLN:C	2.43	0.56
1:C:290:ARG:HH11	1:E:244:ASP:HB2	1.70	0.56
1:E:116:ARG:HD3	1:E:370:VAL:HG13	1.88	0.56
1:L:116:ARG:HD3	1:L:370:VAL:HG13	1.88	0.56
1:N:143:TYR:CZ	1:P:45:VAL:CG2	2.88	0.56
1:P:116:ARG:HD3	1:P:370:VAL:HG13	1.88	0.56
1:R:40:HIS:O	1:R:41:GLN:C	2.43	0.56
1:R:116:ARG:HD3	1:R:370:VAL:HG13	1.88	0.56
1:S:143:TYR:CZ	1:U:45:VAL:CG2	2.88	0.56
1:W:361:GLU:HB3	1:W:369:ILE:CD1	2.14	0.56
1:C:116:ARG:HD3	1:C:370:VAL:HG13	1.88	0.56
1:D:143:TYR:CD1	1:D:143:TYR:C	2.75	0.56
1:K:40:HIS:O	1:K:41:GLN:C	2.43	0.56
1:K:143:TYR:CZ	1:M:45:VAL:CG2	2.88	0.56
1:M:143:TYR:HD2	1:M:346:LEU:HD13	1.70	0.56
1:Q:40:HIS:O	1:Q:41:GLN:C	2.43	0.56
1:Q:362:TYR:HE1	1:Q:367:PRO:CB	2.19	0.56
1:V:40:HIS:O	1:V:41:GLN:C	2.43	0.56
1:G:40:HIS:O	1:G:41:GLN:C	2.43	0.56
1:J:368:SER:O	1:J:371:HIS:N	2.37	0.56
1:L:143:TYR:CZ	1:N:45:VAL:CG2	2.88	0.56
1:M:361:GLU:HB3	1:M:369:ILE:CD1	2.14	0.56
1:M:362:TYR:HE1	1:M:367:PRO:CB	2.19	0.56
1:N:116:ARG:HD3	1:N:370:VAL:HG13	1.88	0.56
1:O:40:HIS:O	1:O:41:GLN:C	2.43	0.56
1:P:325:MET:HE3	1:R:244:ASP:O	2.06	0.56
1:R:143:TYR:CZ	1:T:45:VAL:CG2	2.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:34:ILE:CG2	1:U:67:LEU:HD22	2.28	0.56
1:W:143:TYR:HD2	1:W:346:LEU:HD13	1.70	0.56
1:D:143:TYR:HD2	1:D:346:LEU:HD13	1.70	0.56
1:D:325:MET:HE3	1:F:244:ASP:O	2.06	0.56
1:K:4:GLU:O	1:K:5:THR:HB	2.04	0.56
1:N:290:ARG:HH11	1:P:244:ASP:HB2	1.70	0.56
1:P:143:TYR:CZ	1:R:45:VAL:CG2	2.88	0.56
1:V:361:GLU:HB3	1:V:369:ILE:CD1	2.14	0.56
1:B:325:MET:HE3	1:D:244:ASP:O	2.06	0.56
1:I:143:TYR:CZ	1:K:45:VAL:CG2	2.88	0.56
1:L:290:ARG:HH11	1:N:244:ASP:HB2	1.70	0.56
1:M:290:ARG:HH11	1:O:244:ASP:HB2	1.70	0.56
1:T:116:ARG:HD3	1:T:370:VAL:HG13	1.88	0.56
1:U:143:TYR:CZ	1:W:45:VAL:CG2	2.88	0.56
1:V:143:TYR:CD1	1:V:143:TYR:C	2.75	0.56
1:F:290:ARG:HH11	1:H:244:ASP:HB2	1.70	0.55
1:F:362:TYR:HE1	1:F:367:PRO:CB	2.19	0.55
1:G:116:ARG:HD3	1:G:370:VAL:HG13	1.88	0.55
1:N:143:TYR:HD2	1:N:346:LEU:HD13	1.70	0.55
1:P:121:GLN:HA	1:P:362:TYR:OH	2.07	0.55
1:T:290:ARG:HH11	1:V:244:ASP:HB2	1.70	0.55
1:U:121:GLN:HA	1:U:362:TYR:OH	2.07	0.55
1:D:34:ILE:CG2	1:D:67:LEU:HD22	2.28	0.55
1:F:4:GLU:O	1:F:5:THR:HB	2.04	0.55
1:J:116:ARG:HD3	1:J:370:VAL:HG13	1.88	0.55
1:O:143:TYR:CD1	1:O:143:TYR:C	2.75	0.55
1:Q:116:ARG:HD3	1:Q:370:VAL:HG13	1.88	0.55
1:S:121:GLN:HA	1:S:362:TYR:OH	2.07	0.55
1:T:325:MET:HE3	1:V:244:ASP:O	2.06	0.55
1:W:54:VAL:O	1:W:55:GLY:C	2.45	0.55
1:W:121:GLN:HA	1:W:362:TYR:OH	2.07	0.55
1:A:54:VAL:O	1:A:55:GLY:C	2.45	0.55
1:A:143:TYR:HD2	1:A:346:LEU:HD13	1.70	0.55
1:A:325:MET:HE3	1:C:244:ASP:O	2.06	0.55
1:G:121:GLN:HA	1:G:362:TYR:OH	2.07	0.55
1:I:37:ARG:CG	1:I:38:PRO:CD	2.83	0.55
1:J:143:TYR:CZ	1:L:45:VAL:CG2	2.88	0.55
1:L:54:VAL:O	1:L:55:GLY:C	2.45	0.55
1:M:325:MET:HE3	1:O:244:ASP:O	2.07	0.55
1:P:110:LEU:HD12	1:P:177:ARG:HH11	1.72	0.55
1:W:116:ARG:HD3	1:W:370:VAL:HG13	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:GLN:HA	1:A:362:TYR:OH	2.07	0.55
1:B:362:TYR:HE1	1:B:367:PRO:CB	2.19	0.55
1:C:143:TYR:HD2	1:C:346:LEU:HD13	1.70	0.55
1:D:116:ARG:HD3	1:D:370:VAL:HG13	1.88	0.55
1:F:54:VAL:O	1:F:55:GLY:C	2.45	0.55
1:F:325:MET:HE3	1:H:244:ASP:O	2.06	0.55
1:H:54:VAL:O	1:H:55:GLY:C	2.45	0.55
1:N:110:LEU:HD12	1:N:177:ARG:HH11	1.72	0.55
1:W:37:ARG:CG	1:W:38:PRO:CD	2.83	0.55
1:A:143:TYR:CZ	1:C:45:VAL:CG2	2.88	0.55
1:F:368:SER:O	1:F:371:HIS:N	2.37	0.55
1:G:143:TYR:CZ	1:I:45:VAL:CG2	2.88	0.55
1:H:143:TYR:CZ	1:H:345:ILE:HG22	2.42	0.55
1:I:7:ALA:CB	1:I:347:ALA:HB1	2.37	0.55
1:I:110:LEU:HD12	1:I:177:ARG:HH11	1.72	0.55
1:I:121:GLN:HA	1:I:362:TYR:OH	2.07	0.55
1:J:290:ARG:HH11	1:L:244:ASP:HB2	1.70	0.55
1:J:325:MET:HE3	1:L:244:ASP:O	2.06	0.55
1:K:110:LEU:HD12	1:K:177:ARG:HH11	1.72	0.55
1:M:116:ARG:HD3	1:M:370:VAL:HG13	1.88	0.55
1:N:121:GLN:HA	1:N:362:TYR:OH	2.07	0.55
1:O:32:PRO:HG3	1:O:59:GLN:NE2	2.22	0.55
1:O:116:ARG:HD3	1:O:370:VAL:HG13	1.87	0.55
1:O:121:GLN:HA	1:O:362:TYR:OH	2.07	0.55
1:O:290:ARG:HH11	1:Q:244:ASP:HB2	1.70	0.55
1:Q:121:GLN:HA	1:Q:362:TYR:OH	2.07	0.55
1:R:110:LEU:HD12	1:R:177:ARG:HH11	1.72	0.55
1:R:121:GLN:HA	1:R:362:TYR:OH	2.07	0.55
1:U:368:SER:O	1:U:371:HIS:N	2.37	0.55
1:V:116:ARG:HD3	1:V:370:VAL:HG13	1.88	0.55
1:B:116:ARG:HD3	1:B:370:VAL:HG13	1.88	0.55
1:D:32:PRO:HG3	1:D:59:GLN:NE2	2.22	0.55
1:E:143:TYR:CZ	1:E:345:ILE:HG22	2.42	0.55
1:F:116:ARG:HD3	1:F:370:VAL:HG13	1.87	0.55
1:G:143:TYR:CZ	1:G:345:ILE:HG22	2.42	0.55
1:J:7:ALA:CB	1:J:347:ALA:HB1	2.37	0.55
1:K:7:ALA:CB	1:K:347:ALA:HB1	2.37	0.55
1:L:7:ALA:CB	1:L:347:ALA:HB1	2.37	0.55
1:L:121:GLN:HA	1:L:362:TYR:OH	2.07	0.55
1:R:143:TYR:CZ	1:R:345:ILE:HG22	2.42	0.55
1:S:54:VAL:O	1:S:55:GLY:C	2.45	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:116:ARG:HD3	1:S:370:VAL:HG13	1.88	0.55
1:T:143:TYR:CZ	1:T:345:ILE:HG22	2.42	0.55
1:W:143:TYR:CZ	1:W:345:ILE:HG22	2.42	0.55
1:C:7:ALA:CB	1:C:347:ALA:HB1	2.37	0.55
1:E:32:PRO:HG3	1:E:59:GLN:NE2	2.22	0.55
1:G:7:ALA:CB	1:G:347:ALA:HB1	2.37	0.55
1:G:32:PRO:HG3	1:G:59:GLN:NE2	2.22	0.55
1:I:116:ARG:HD3	1:I:370:VAL:HG13	1.88	0.55
1:J:32:PRO:HG3	1:J:59:GLN:NE2	2.22	0.55
1:K:32:PRO:HG3	1:K:59:GLN:NE2	2.22	0.55
1:L:37:ARG:CG	1:L:38:PRO:CD	2.83	0.55
1:M:7:ALA:CB	1:M:347:ALA:HB1	2.37	0.55
1:N:7:ALA:CB	1:N:347:ALA:HB1	2.37	0.55
1:N:143:TYR:CZ	1:N:345:ILE:HG22	2.42	0.55
1:O:325:MET:HE3	1:Q:244:ASP:O	2.07	0.55
1:P:143:TYR:CZ	1:P:345:ILE:HG22	2.42	0.55
1:Q:54:VAL:O	1:Q:55:GLY:C	2.45	0.55
1:S:32:PRO:HG3	1:S:59:GLN:NE2	2.22	0.55
1:A:7:ALA:CB	1:A:347:ALA:HB1	2.37	0.55
1:A:290:ARG:HH11	1:C:244:ASP:HB2	1.70	0.55
1:B:121:GLN:HA	1:B:362:TYR:OH	2.07	0.55
1:C:37:ARG:CG	1:C:38:PRO:CD	2.83	0.55
1:C:54:VAL:O	1:C:55:GLY:C	2.45	0.55
1:D:143:TYR:HD1	1:D:143:TYR:C	2.09	0.55
1:F:143:TYR:CZ	1:H:45:VAL:CG2	2.88	0.55
1:F:236:LEU:HD12	1:F:237:GLU:CG	2.37	0.55
1:G:110:LEU:HD12	1:G:177:ARG:HH11	1.72	0.55
1:H:7:ALA:CB	1:H:347:ALA:HB1	2.37	0.55
1:H:37:ARG:CG	1:H:38:PRO:CD	2.83	0.55
1:H:236:LEU:HD12	1:H:237:GLU:CG	2.37	0.55
1:K:325:MET:HE3	1:M:244:ASP:O	2.06	0.55
1:M:121:GLN:HA	1:M:362:TYR:OH	2.07	0.55
1:N:32:PRO:HG3	1:N:59:GLN:NE2	2.22	0.55
1:N:54:VAL:O	1:N:55:GLY:C	2.45	0.55
1:P:7:ALA:CB	1:P:347:ALA:HB1	2.37	0.55
1:Q:325:MET:HE3	1:S:244:ASP:O	2.07	0.55
1:R:54:VAL:O	1:R:55:GLY:C	2.45	0.55
1:V:121:GLN:HA	1:V:362:TYR:OH	2.07	0.55
1:V:143:TYR:CZ	1:V:345:ILE:HG22	2.42	0.55
1:V:143:TYR:HD2	1:V:346:LEU:HD13	1.70	0.55
1:W:32:PRO:HG3	1:W:59:GLN:NE2	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:110:LEU:HD12	1:W:177:ARG:HH11	1.72	0.55
1:A:143:TYR:CZ	1:A:345:ILE:HG22	2.42	0.55
1:B:236:LEU:HD12	1:B:237:GLU:CG	2.37	0.55
1:C:32:PRO:HG3	1:C:59:GLN:NE2	2.22	0.55
1:D:121:GLN:HA	1:D:362:TYR:OH	2.07	0.55
1:D:236:LEU:HD12	1:D:237:GLU:CG	2.37	0.55
1:D:361:GLU:HB3	1:D:369:ILE:CD1	2.14	0.55
1:E:7:ALA:CB	1:E:347:ALA:HB1	2.37	0.55
1:E:121:GLN:HA	1:E:362:TYR:OH	2.07	0.55
1:H:32:PRO:HG3	1:H:59:GLN:NE2	2.22	0.55
1:H:143:TYR:CZ	1:J:45:VAL:CG2	2.88	0.55
1:I:32:PRO:HG3	1:I:59:GLN:NE2	2.22	0.55
1:J:143:TYR:HD1	1:J:143:TYR:C	2.09	0.55
1:K:116:ARG:HD3	1:K:370:VAL:HG13	1.88	0.55
1:L:147:ARG:HG3	1:L:147:ARG:NH2	2.22	0.55
1:O:7:ALA:CB	1:O:347:ALA:HB1	2.37	0.55
1:O:143:TYR:CZ	1:O:345:ILE:HG22	2.42	0.55
1:S:325:MET:HE3	1:U:244:ASP:O	2.06	0.55
1:T:236:LEU:HD12	1:T:237:GLU:CG	2.37	0.55
1:A:147:ARG:HG3	1:A:147:ARG:NH2	2.22	0.55
1:B:368:SER:O	1:B:371:HIS:N	2.37	0.55
1:C:143:TYR:CZ	1:E:45:VAL:CG2	2.88	0.55
1:E:143:TYR:CZ	1:G:45:VAL:CG2	2.88	0.55
1:E:362:TYR:HE1	1:E:367:PRO:CB	2.19	0.55
1:H:116:ARG:HD3	1:H:370:VAL:HG13	1.88	0.55
1:H:236:LEU:HD12	1:H:237:GLU:HG2	1.89	0.55
1:H:290:ARG:HH11	1:J:244:ASP:HB2	1.70	0.55
1:J:143:TYR:CZ	1:J:345:ILE:HG22	2.42	0.55
1:M:143:TYR:CZ	1:M:345:ILE:HG22	2.42	0.55
1:O:34:ILE:CG2	1:O:67:LEU:HD22	2.28	0.55
1:Q:143:TYR:CZ	1:Q:345:ILE:HG22	2.42	0.55
1:R:325:MET:HE3	1:T:244:ASP:O	2.06	0.55
1:S:236:LEU:HD12	1:S:237:GLU:HG2	1.89	0.55
1:T:236:LEU:HD12	1:T:237:GLU:HG2	1.90	0.55
1:F:7:ALA:CB	1:F:347:ALA:HB1	2.37	0.54
1:F:143:TYR:CZ	1:F:345:ILE:HG22	2.42	0.54
1:F:236:LEU:HD12	1:F:237:GLU:HG2	1.89	0.54
1:G:325:MET:HE3	1:I:244:ASP:O	2.06	0.54
1:H:147:ARG:NH2	1:H:147:ARG:HG3	2.22	0.54
1:J:121:GLN:HA	1:J:362:TYR:OH	2.07	0.54
1:N:325:MET:HE3	1:P:244:ASP:O	2.06	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:54:VAL:O	1:P:55:GLY:C	2.45	0.54
1:Q:7:ALA:CB	1:Q:347:ALA:HB1	2.37	0.54
1:Q:147:ARG:HG3	1:Q:147:ARG:NH2	2.22	0.54
1:Q:236:LEU:HD12	1:Q:237:GLU:HG2	1.89	0.54
1:R:7:ALA:CB	1:R:347:ALA:HB1	2.37	0.54
1:R:236:LEU:HD12	1:R:237:GLU:CG	2.37	0.54
1:S:7:ALA:CB	1:S:347:ALA:HB1	2.37	0.54
1:T:110:LEU:HD12	1:T:177:ARG:HH11	1.72	0.54
1:V:32:PRO:HG3	1:V:59:GLN:NE2	2.22	0.54
1:W:147:ARG:HG3	1:W:147:ARG:NH2	2.22	0.54
1:A:32:PRO:HG3	1:A:59:GLN:NE2	2.22	0.54
1:A:110:LEU:HD12	1:A:177:ARG:HH11	1.72	0.54
1:B:143:TYR:HD2	1:B:346:LEU:HD13	1.70	0.54
1:D:34:ILE:HG21	1:D:67:LEU:HB3	1.90	0.54
1:D:37:ARG:CG	1:D:38:PRO:CD	2.83	0.54
1:D:143:TYR:CZ	1:F:45:VAL:CG2	2.88	0.54
1:E:143:TYR:HD2	1:E:346:LEU:HD13	1.70	0.54
1:F:34:ILE:HG21	1:F:67:LEU:HB3	1.90	0.54
1:F:147:ARG:HG3	1:F:147:ARG:NH2	2.22	0.54
1:G:236:LEU:HD12	1:G:237:GLU:CG	2.37	0.54
1:I:34:ILE:HG21	1:I:67:LEU:HB3	1.90	0.54
1:I:236:LEU:HD12	1:I:237:GLU:CG	2.37	0.54
1:I:236:LEU:HD12	1:I:237:GLU:HG2	1.89	0.54
1:J:54:VAL:O	1:J:55:GLY:C	2.45	0.54
1:J:236:LEU:HD12	1:J:237:GLU:CG	2.37	0.54
1:K:143:TYR:HD2	1:K:346:LEU:HD13	1.70	0.54
1:K:236:LEU:HD12	1:K:237:GLU:HG2	1.89	0.54
1:L:32:PRO:HG3	1:L:59:GLN:NE2	2.22	0.54
1:Q:368:SER:O	1:Q:371:HIS:N	2.37	0.54
1:R:236:LEU:HD12	1:R:237:GLU:HG2	1.89	0.54
1:S:34:ILE:HG21	1:S:67:LEU:HB3	1.90	0.54
1:S:143:TYR:HD1	1:S:143:TYR:C	2.09	0.54
1:U:7:ALA:CB	1:U:347:ALA:HB1	2.37	0.54
1:U:143:TYR:CZ	1:U:345:ILE:HG22	2.42	0.54
1:V:34:ILE:HG21	1:V:67:LEU:HB3	1.90	0.54
1:V:236:LEU:HD12	1:V:237:GLU:HG2	1.90	0.54
1:B:54:VAL:O	1:B:55:GLY:C	2.45	0.54
1:B:147:ARG:NH2	1:B:147:ARG:HG3	2.22	0.54
1:E:8:LEU:HB2	1:E:103:THR:OG1	2.08	0.54
1:E:34:ILE:HG21	1:E:67:LEU:HB3	1.90	0.54
1:K:34:ILE:HG21	1:K:67:LEU:HB3	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:TYR:CZ	1:L:345:ILE:HG22	2.42	0.54
1:M:143:TYR:HD1	1:M:143:TYR:C	2.09	0.54
1:O:236:LEU:HD12	1:O:237:GLU:HG2	1.89	0.54
1:Q:34:ILE:HG21	1:Q:67:LEU:HB3	1.90	0.54
1:Q:106:THR:HG22	1:Q:140:LEU:CD1	2.38	0.54
1:R:34:ILE:HG21	1:R:67:LEU:HB3	1.90	0.54
1:R:37:ARG:CG	1:R:38:PRO:CD	2.83	0.54
1:T:8:LEU:HB2	1:T:103:THR:OG1	2.08	0.54
1:U:34:ILE:HG21	1:U:67:LEU:HB3	1.90	0.54
1:U:110:LEU:HD12	1:U:177:ARG:HH11	1.72	0.54
1:U:116:ARG:HD3	1:U:370:VAL:HG13	1.88	0.54
1:U:147:ARG:NH2	1:U:147:ARG:HG3	2.22	0.54
1:V:8:LEU:HB2	1:V:103:THR:OG1	2.08	0.54
1:V:300:SER:HA	1:V:335:ARG:HG2	1.89	0.54
1:W:34:ILE:HG21	1:W:67:LEU:HB3	1.90	0.54
1:W:362:TYR:HE1	1:W:367:PRO:CB	2.19	0.54
1:A:37:ARG:CG	1:A:38:PRO:CD	2.83	0.54
1:B:34:ILE:HG21	1:B:67:LEU:HB3	1.89	0.54
1:B:300:SER:HA	1:B:335:ARG:HG2	1.89	0.54
1:C:8:LEU:HB2	1:C:103:THR:OG1	2.08	0.54
1:C:121:GLN:HA	1:C:362:TYR:OH	2.07	0.54
1:D:7:ALA:CB	1:D:347:ALA:HB1	2.37	0.54
1:E:223:PHE:CZ	1:E:266:PHE:HZ	2.26	0.54
1:F:32:PRO:HG3	1:F:59:GLN:NE2	2.22	0.54
1:G:236:LEU:HD12	1:G:237:GLU:HG2	1.90	0.54
1:I:8:LEU:HB2	1:I:103:THR:OG1	2.08	0.54
1:K:7:ALA:CB	1:K:356:TRP:CZ2	2.91	0.54
1:K:38:PRO:HB2	1:K:41:GLN:HB2	1.89	0.54
1:K:54:VAL:O	1:K:55:GLY:C	2.45	0.54
1:L:34:ILE:HG21	1:L:67:LEU:HB3	1.90	0.54
1:L:110:LEU:HD12	1:L:177:ARG:HH11	1.72	0.54
1:M:7:ALA:CB	1:M:356:TRP:CZ2	2.91	0.54
1:M:110:LEU:HD12	1:M:177:ARG:HH11	1.72	0.54
1:M:223:PHE:CZ	1:M:266:PHE:HZ	2.26	0.54
1:M:236:LEU:HD12	1:M:237:GLU:HG2	1.90	0.54
1:N:223:PHE:CZ	1:N:266:PHE:HZ	2.26	0.54
1:P:147:ARG:NH2	1:P:147:ARG:HG3	2.22	0.54
1:R:32:PRO:HG3	1:R:59:GLN:NE2	2.22	0.54
1:S:106:THR:HG22	1:S:140:LEU:CD1	2.38	0.54
1:T:38:PRO:HB2	1:T:41:GLN:HB2	1.89	0.54
1:T:54:VAL:O	1:T:55:GLY:C	2.45	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:32:PRO:HG3	1:U:59:GLN:NE2	2.22	0.54
1:U:54:VAL:O	1:U:55:GLY:C	2.45	0.54
1:V:236:LEU:HD12	1:V:237:GLU:CG	2.37	0.54
1:W:106:THR:HG22	1:W:140:LEU:CD1	2.38	0.54
1:A:236:LEU:HD12	1:A:237:GLU:CG	2.37	0.54
1:B:110:LEU:HD12	1:B:177:ARG:HH11	1.72	0.54
1:B:143:TYR:CZ	1:B:345:ILE:HG22	2.42	0.54
1:B:223:PHE:CZ	1:B:266:PHE:HZ	2.26	0.54
1:C:34:ILE:HG21	1:C:67:LEU:HB3	1.90	0.54
1:D:236:LEU:HD12	1:D:237:GLU:HG2	1.90	0.54
1:E:236:LEU:HD12	1:E:237:GLU:CG	2.37	0.54
1:G:54:VAL:O	1:G:55:GLY:C	2.45	0.54
1:H:34:ILE:HG21	1:H:67:LEU:HB3	1.90	0.54
1:H:121:GLN:HA	1:H:362:TYR:OH	2.07	0.54
1:I:7:ALA:CB	1:I:356:TRP:CZ2	2.91	0.54
1:I:38:PRO:HB2	1:I:41:GLN:HB2	1.89	0.54
1:J:34:ILE:HG21	1:J:67:LEU:HB3	1.90	0.54
1:J:236:LEU:HD12	1:J:237:GLU:HG2	1.90	0.54
1:M:8:LEU:HB2	1:M:103:THR:OG1	2.08	0.54
1:M:32:PRO:HG3	1:M:59:GLN:NE2	2.22	0.54
1:M:38:PRO:HB2	1:M:41:GLN:HB2	1.89	0.54
1:M:236:LEU:HD12	1:M:237:GLU:CG	2.37	0.54
1:O:7:ALA:CB	1:O:356:TRP:CZ2	2.91	0.54
1:O:34:ILE:HG21	1:O:67:LEU:HB3	1.90	0.54
1:P:8:LEU:HB2	1:P:103:THR:OG1	2.08	0.54
1:P:34:ILE:CG2	1:P:67:LEU:HD22	2.27	0.54
1:P:223:PHE:CZ	1:P:266:PHE:HZ	2.26	0.54
1:Q:236:LEU:HD12	1:Q:237:GLU:CG	2.37	0.54
1:S:37:ARG:CG	1:S:38:PRO:CD	2.83	0.54
1:S:236:LEU:HD12	1:S:237:GLU:CG	2.37	0.54
1:U:106:THR:HG22	1:U:140:LEU:CD1	2.38	0.54
1:U:236:LEU:HD12	1:U:237:GLU:CG	2.37	0.54
1:U:236:LEU:HD12	1:U:237:GLU:HG2	1.90	0.54
1:V:223:PHE:CZ	1:V:266:PHE:HZ	2.26	0.54
1:W:7:ALA:CB	1:W:347:ALA:HB1	2.37	0.54
1:C:223:PHE:CZ	1:C:266:PHE:HZ	2.26	0.54
1:D:110:LEU:HD12	1:D:177:ARG:HH11	1.72	0.54
1:D:223:PHE:CZ	1:D:266:PHE:HZ	2.26	0.54
1:E:38:PRO:HB2	1:E:41:GLN:HB2	1.89	0.54
1:F:121:GLN:HA	1:F:362:TYR:OH	2.07	0.54
1:G:34:ILE:HG21	1:G:67:LEU:HB3	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:54:VAL:O	1:I:55:GLY:C	2.45	0.54
1:I:143:TYR:CZ	1:I:345:ILE:HG22	2.42	0.54
1:K:143:TYR:CZ	1:K:345:ILE:HG22	2.42	0.54
1:K:236:LEU:HD12	1:K:237:GLU:CG	2.37	0.54
1:L:223:PHE:CZ	1:L:266:PHE:HZ	2.26	0.54
1:M:34:ILE:HG21	1:M:67:LEU:HB3	1.90	0.54
1:M:37:ARG:CG	1:M:38:PRO:CD	2.83	0.54
1:O:106:THR:HG22	1:O:140:LEU:CD1	2.38	0.54
1:O:223:PHE:CZ	1:O:266:PHE:HZ	2.26	0.54
1:O:236:LEU:HD12	1:O:237:GLU:CG	2.37	0.54
1:P:34:ILE:HG21	1:P:67:LEU:HB3	1.90	0.54
1:P:236:LEU:HD12	1:P:237:GLU:CG	2.37	0.54
1:T:7:ALA:CB	1:T:347:ALA:HB1	2.37	0.54
1:T:106:THR:HG22	1:T:140:LEU:CD1	2.38	0.54
1:T:121:GLN:HA	1:T:362:TYR:OH	2.07	0.54
1:W:223:PHE:CZ	1:W:266:PHE:HZ	2.26	0.54
1:A:140:LEU:HD22	1:A:343:GLY:HA2	1.90	0.54
1:B:7:ALA:CB	1:B:347:ALA:HB1	2.37	0.54
1:B:236:LEU:HD12	1:B:237:GLU:HG2	1.90	0.54
1:C:143:TYR:CZ	1:C:345:ILE:HG22	2.42	0.54
1:D:54:VAL:O	1:D:55:GLY:C	2.45	0.54
1:D:147:ARG:HG3	1:D:147:ARG:NH2	2.22	0.54
1:E:106:THR:HG22	1:E:140:LEU:CD1	2.38	0.54
1:E:110:LEU:HD12	1:E:177:ARG:HH11	1.72	0.54
1:G:7:ALA:CB	1:G:356:TRP:CZ2	2.91	0.54
1:G:38:PRO:HB2	1:G:41:GLN:HB2	1.89	0.54
1:I:325:MET:HE3	1:K:244:ASP:O	2.06	0.54
1:K:106:THR:HG22	1:K:140:LEU:CD1	2.38	0.54
1:K:121:GLN:HA	1:K:362:TYR:OH	2.07	0.54
1:L:140:LEU:HD22	1:L:343:GLY:HA2	1.90	0.54
1:L:236:LEU:HD12	1:L:237:GLU:CG	2.37	0.54
1:M:299:MET:HE1	1:M:304:THR:HB	1.90	0.54
1:O:8:LEU:HB2	1:O:103:THR:OG1	2.08	0.54
1:O:54:VAL:O	1:O:55:GLY:C	2.45	0.54
1:P:32:PRO:HG3	1:P:59:GLN:NE2	2.22	0.54
1:P:140:LEU:HD22	1:P:343:GLY:HA2	1.90	0.54
1:P:143:TYR:HD2	1:P:346:LEU:HD13	1.70	0.54
1:Q:7:ALA:CB	1:Q:356:TRP:CZ2	2.91	0.54
1:Q:32:PRO:HG3	1:Q:59:GLN:NE2	2.22	0.54
1:R:8:LEU:HB2	1:R:103:THR:OG1	2.08	0.54
1:R:38:PRO:HB2	1:R:41:GLN:HB2	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:143:TYR:HD2	1:R:346:LEU:HD13	1.70	0.54
1:R:223:PHE:CZ	1:R:266:PHE:HZ	2.26	0.54
1:S:147:ARG:NH2	1:S:147:ARG:HG3	2.22	0.54
1:T:34:ILE:HG21	1:T:67:LEU:HB3	1.90	0.54
1:T:143:TYR:HD1	1:T:143:TYR:C	2.09	0.54
1:T:300:SER:HA	1:T:335:ARG:HG2	1.89	0.54
1:V:7:ALA:CB	1:V:356:TRP:CZ2	2.91	0.54
1:A:8:LEU:HB2	1:A:103:THR:OG1	2.08	0.54
1:A:106:THR:HG22	1:A:140:LEU:CD1	2.38	0.54
1:D:300:SER:HA	1:D:335:ARG:HG2	1.89	0.54
1:E:325:MET:HE3	1:G:244:ASP:O	2.07	0.54
1:F:223:PHE:CZ	1:F:266:PHE:HZ	2.26	0.54
1:G:143:TYR:HD2	1:G:346:LEU:HD13	1.70	0.54
1:J:147:ARG:NH2	1:J:147:ARG:HG3	2.22	0.54
1:K:223:PHE:CZ	1:K:266:PHE:HZ	2.26	0.54
1:M:147:ARG:NH2	1:M:147:ARG:HG3	2.22	0.54
1:N:34:ILE:HG21	1:N:67:LEU:HB3	1.89	0.54
1:P:236:LEU:HD12	1:P:237:GLU:HG2	1.89	0.54
1:R:7:ALA:CB	1:R:356:TRP:CZ2	2.91	0.54
1:S:143:TYR:CZ	1:S:345:ILE:HG22	2.42	0.54
1:T:56:ASP:C	1:T:56:ASP:OD1	2.47	0.54
1:U:325:MET:HE3	1:W:244:ASP:O	2.07	0.54
1:V:38:PRO:HB2	1:V:41:GLN:HB2	1.90	0.54
1:A:34:ILE:HG21	1:A:67:LEU:HB3	1.89	0.54
1:B:106:THR:HG22	1:B:140:LEU:CD1	2.38	0.54
1:C:38:PRO:HB2	1:C:41:GLN:HB2	1.89	0.54
1:C:106:THR:HG22	1:C:140:LEU:CD1	2.38	0.54
1:D:208:ILE:HG22	1:D:209:VAL:N	2.23	0.54
1:E:54:VAL:O	1:E:55:GLY:C	2.45	0.54
1:E:56:ASP:C	1:E:56:ASP:OD1	2.47	0.54
1:E:236:LEU:HD12	1:E:237:GLU:HG2	1.90	0.54
1:G:223:PHE:CZ	1:G:266:PHE:HZ	2.26	0.54
1:I:360:GLN:O	1:I:364:GLU:HG3	2.08	0.54
1:J:106:THR:HG22	1:J:140:LEU:CD1	2.38	0.54
1:K:8:LEU:HB2	1:K:103:THR:OG1	2.08	0.54
1:L:106:THR:HG22	1:L:140:LEU:CD1	2.38	0.54
1:S:223:PHE:O	1:S:227:MET:HG2	2.08	0.54
1:T:7:ALA:CB	1:T:356:TRP:CZ2	2.91	0.54
1:T:32:PRO:CG	1:T:55:GLY:O	2.55	0.54
1:T:32:PRO:HG3	1:T:59:GLN:NE2	2.22	0.54
1:T:143:TYR:HD2	1:T:346:LEU:HD13	1.70	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:7:ALA:CB	1:V:347:ALA:HB1	2.37	0.54
1:V:362:TYR:HE1	1:V:367:PRO:CB	2.19	0.54
1:A:223:PHE:CZ	1:A:266:PHE:HZ	2.26	0.54
1:B:32:PRO:HG3	1:B:59:GLN:NE2	2.22	0.54
1:B:56:ASP:OD1	1:B:56:ASP:C	2.47	0.54
1:B:208:ILE:HG22	1:B:209:VAL:N	2.23	0.54
1:C:140:LEU:HD22	1:C:343:GLY:HA2	1.90	0.54
1:C:236:LEU:HD12	1:C:237:GLU:CG	2.37	0.54
1:C:325:MET:HE3	1:E:244:ASP:O	2.07	0.54
1:D:106:THR:HG22	1:D:140:LEU:CD1	2.38	0.54
1:E:147:ARG:NH2	1:E:147:ARG:HG3	2.22	0.54
1:F:106:THR:HG22	1:F:140:LEU:CD1	2.38	0.54
1:F:110:LEU:HD12	1:F:177:ARG:HH11	1.72	0.54
1:F:300:SER:HA	1:F:335:ARG:HG2	1.89	0.54
1:H:106:THR:HG22	1:H:140:LEU:CD1	2.38	0.54
1:I:56:ASP:C	1:I:56:ASP:OD1	2.47	0.54
1:J:140:LEU:HD22	1:J:343:GLY:HA2	1.90	0.54
1:J:223:PHE:CZ	1:J:266:PHE:HZ	2.26	0.54
1:M:368:SER:O	1:M:371:HIS:N	2.37	0.54
1:P:37:ARG:CG	1:P:38:PRO:CD	2.83	0.54
1:T:223:PHE:CZ	1:T:266:PHE:HZ	2.26	0.54
1:W:236:LEU:HD12	1:W:237:GLU:CG	2.37	0.54
1:A:300:SER:HA	1:A:335:ARG:HG2	1.89	0.53
1:B:8:LEU:HB2	1:B:103:THR:OG1	2.08	0.53
1:C:32:PRO:CG	1:C:55:GLY:O	2.55	0.53
1:D:223:PHE:O	1:D:227:MET:HG2	2.08	0.53
1:G:106:THR:HG22	1:G:140:LEU:CD1	2.38	0.53
1:H:135:ALA:HB1	1:H:140:LEU:HD21	1.91	0.53
1:H:147:ARG:CG	1:H:147:ARG:NH2	2.71	0.53
1:I:223:PHE:O	1:I:227:MET:HG2	2.09	0.53
1:L:362:TYR:HE1	1:L:367:PRO:CB	2.19	0.53
1:M:34:ILE:CG2	1:M:68:LYS:H	2.21	0.53
1:M:56:ASP:C	1:M:56:ASP:OD1	2.47	0.53
1:M:223:PHE:O	1:M:227:MET:HG2	2.09	0.53
1:N:223:PHE:O	1:N:227:MET:HG2	2.08	0.53
1:P:7:ALA:CB	1:P:356:TRP:CZ2	2.91	0.53
1:P:38:PRO:HB2	1:P:41:GLN:HB2	1.89	0.53
1:P:208:ILE:HG22	1:P:209:VAL:N	2.23	0.53
1:P:360:GLN:O	1:P:364:GLU:HG3	2.08	0.53
1:R:32:PRO:CG	1:R:55:GLY:O	2.55	0.53
1:R:140:LEU:HD22	1:R:343:GLY:HA2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:56:ASP:C	1:S:56:ASP:OD1	2.47	0.53
1:T:34:ILE:HB	1:T:54:VAL:HG13	1.80	0.53
1:T:34:ILE:CG2	1:T:68:LYS:H	2.21	0.53
1:U:223:PHE:CZ	1:U:266:PHE:HZ	2.26	0.53
1:V:34:ILE:CG2	1:V:68:LYS:H	2.21	0.53
1:V:110:LEU:HD12	1:V:177:ARG:HH11	1.72	0.53
1:W:147:ARG:CG	1:W:147:ARG:NH2	2.71	0.53
1:W:236:LEU:HD12	1:W:237:GLU:HG2	1.90	0.53
1:A:135:ALA:HB1	1:A:140:LEU:HD21	1.91	0.53
1:D:56:ASP:C	1:D:56:ASP:OD1	2.47	0.53
1:E:143:TYR:HD1	1:E:143:TYR:C	2.09	0.53
1:E:223:PHE:O	1:E:227:MET:HG2	2.08	0.53
1:G:360:GLN:O	1:G:364:GLU:HG3	2.08	0.53
1:H:56:ASP:C	1:H:56:ASP:OD1	2.47	0.53
1:J:135:ALA:HB1	1:J:140:LEU:HD21	1.91	0.53
1:K:34:ILE:CG2	1:K:68:LYS:H	2.21	0.53
1:L:223:PHE:O	1:L:227:MET:HG2	2.09	0.53
1:L:236:LEU:HD12	1:L:237:GLU:HG2	1.89	0.53
1:M:54:VAL:O	1:M:55:GLY:C	2.45	0.53
1:M:106:THR:HG22	1:M:140:LEU:CD1	2.38	0.53
1:N:106:THR:HG22	1:N:140:LEU:CD1	2.38	0.53
1:N:135:ALA:HB1	1:N:140:LEU:HD21	1.91	0.53
1:N:173:HIS:CE1	1:O:267:ILE:C	2.82	0.53
1:N:236:LEU:HD12	1:N:237:GLU:CG	2.37	0.53
1:P:56:ASP:C	1:P:56:ASP:OD1	2.47	0.53
1:Q:8:LEU:HB2	1:Q:103:THR:OG1	2.08	0.53
1:Q:56:ASP:C	1:Q:56:ASP:OD1	2.47	0.53
1:Q:173:HIS:CE1	1:R:267:ILE:C	2.82	0.53
1:S:7:ALA:CB	1:S:356:TRP:CZ2	2.91	0.53
1:S:110:LEU:HD12	1:S:177:ARG:HH11	1.72	0.53
1:S:362:TYR:HE1	1:S:367:PRO:CB	2.19	0.53
1:U:38:PRO:HB2	1:U:41:GLN:HB2	1.89	0.53
1:W:38:PRO:HB2	1:W:41:GLN:HB2	1.90	0.53
1:A:360:GLN:O	1:A:364:GLU:HG3	2.08	0.53
1:B:7:ALA:CB	1:B:356:TRP:CZ2	2.91	0.53
1:B:116:ARG:HH12	1:B:375:PHE:HA	1.74	0.53
1:B:173:HIS:CE1	1:C:267:ILE:C	2.82	0.53
1:D:142:LEU:HD21	1:D:165:ILE:CD1	2.39	0.53
1:D:143:TYR:CZ	1:D:345:ILE:HG22	2.42	0.53
1:E:7:ALA:CB	1:E:356:TRP:CZ2	2.91	0.53
1:E:336:LYS:HE2	2:E:401:ADP:C5'	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:7:ALA:CB	1:F:356:TRP:CZ2	2.91	0.53
1:F:56:ASP:C	1:F:56:ASP:OD1	2.47	0.53
1:F:208:ILE:HG22	1:F:209:VAL:N	2.24	0.53
1:G:223:PHE:O	1:G:227:MET:HG2	2.09	0.53
1:H:223:PHE:CZ	1:H:266:PHE:HZ	2.26	0.53
1:I:106:THR:HG22	1:I:140:LEU:CD1	2.38	0.53
1:K:142:LEU:HD21	1:K:165:ILE:CD1	2.39	0.53
1:L:7:ALA:CB	1:L:356:TRP:CZ2	2.91	0.53
1:L:325:MET:HE3	1:N:244:ASP:O	2.07	0.53
1:O:38:PRO:HB2	1:O:41:GLN:HB2	1.89	0.53
1:R:106:THR:HG22	1:R:140:LEU:CD1	2.38	0.53
1:R:360:GLN:O	1:R:364:GLU:HG3	2.08	0.53
1:S:38:PRO:HB2	1:S:41:GLN:HB2	1.89	0.53
1:T:147:ARG:HG3	1:T:147:ARG:NH2	2.22	0.53
1:T:223:PHE:O	1:T:227:MET:HG2	2.08	0.53
1:U:135:ALA:HB1	1:U:140:LEU:HD21	1.91	0.53
1:U:140:LEU:HD22	1:U:343:GLY:HA2	1.90	0.53
1:U:173:HIS:CE1	1:V:267:ILE:C	2.82	0.53
1:V:54:VAL:O	1:V:55:GLY:C	2.45	0.53
1:V:116:ARG:HH12	1:V:375:PHE:HA	1.74	0.53
1:V:360:GLN:O	1:V:364:GLU:HG3	2.08	0.53
1:W:56:ASP:C	1:W:56:ASP:OD1	2.47	0.53
1:W:135:ALA:HB1	1:W:140:LEU:HD21	1.91	0.53
1:W:140:LEU:HD22	1:W:343:GLY:HA2	1.90	0.53
1:A:32:PRO:CG	1:A:55:GLY:O	2.55	0.53
1:A:56:ASP:C	1:A:56:ASP:OD1	2.47	0.53
1:A:236:LEU:HD12	1:A:237:GLU:HG2	1.89	0.53
1:C:135:ALA:HB1	1:C:140:LEU:HD21	1.91	0.53
1:D:7:ALA:CB	1:D:356:TRP:CZ2	2.91	0.53
1:D:135:ALA:HB1	1:D:140:LEU:HD21	1.91	0.53
1:D:147:ARG:CG	1:D:147:ARG:NH2	2.71	0.53
1:D:360:GLN:O	1:D:364:GLU:HG3	2.08	0.53
1:E:140:LEU:HD22	1:E:343:GLY:HA2	1.90	0.53
1:F:135:ALA:HB1	1:F:140:LEU:HD21	1.90	0.53
1:F:223:PHE:O	1:F:227:MET:HG2	2.08	0.53
1:G:8:LEU:HB2	1:G:103:THR:OG1	2.08	0.53
1:H:110:LEU:HD12	1:H:177:ARG:HH11	1.72	0.53
1:L:8:LEU:HB2	1:L:103:THR:OG1	2.08	0.53
1:L:56:ASP:C	1:L:56:ASP:OD1	2.47	0.53
1:M:173:HIS:CE1	1:N:267:ILE:C	2.82	0.53
1:N:140:LEU:HD22	1:N:343:GLY:HA2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:56:ASP:C	1:O:56:ASP:OD1	2.47	0.53
1:P:135:ALA:HB1	1:P:140:LEU:HD21	1.91	0.53
1:P:173:HIS:CE1	1:Q:267:ILE:C	2.82	0.53
1:Q:223:PHE:CZ	1:Q:266:PHE:HZ	2.26	0.53
1:R:173:HIS:CE1	1:S:267:ILE:C	2.82	0.53
1:S:116:ARG:HH12	1:S:375:PHE:HA	1.74	0.53
1:S:147:ARG:CG	1:S:147:ARG:NH2	2.71	0.53
1:U:223:PHE:O	1:U:227:MET:HG2	2.09	0.53
1:V:106:THR:HG22	1:V:140:LEU:CD1	2.38	0.53
1:V:223:PHE:O	1:V:227:MET:HG2	2.08	0.53
1:W:7:ALA:CB	1:W:356:TRP:CZ2	2.91	0.53
1:A:34:ILE:CG2	1:A:67:LEU:HD22	2.28	0.53
1:A:362:TYR:HE1	1:A:367:PRO:CB	2.19	0.53
1:B:360:GLN:O	1:B:364:GLU:HG3	2.08	0.53
1:C:56:ASP:C	1:C:56:ASP:OD1	2.47	0.53
1:C:110:LEU:HD12	1:C:177:ARG:HH11	1.72	0.53
1:C:173:HIS:CE1	1:D:267:ILE:C	2.82	0.53
1:F:173:HIS:CE1	1:G:267:ILE:C	2.82	0.53
1:F:360:GLN:O	1:F:364:GLU:HG3	2.08	0.53
1:G:173:HIS:CE1	1:H:267:ILE:C	2.82	0.53
1:H:7:ALA:CB	1:H:356:TRP:CZ2	2.91	0.53
1:I:32:PRO:CG	1:I:55:GLY:O	2.55	0.53
1:I:34:ILE:CG2	1:I:68:LYS:H	2.21	0.53
1:I:147:ARG:HG3	1:I:147:ARG:NH2	2.22	0.53
1:I:173:HIS:CE1	1:J:267:ILE:C	2.82	0.53
1:J:7:ALA:CB	1:J:356:TRP:CZ2	2.91	0.53
1:K:360:GLN:O	1:K:364:GLU:HG3	2.08	0.53
1:L:143:TYR:HD1	1:L:143:TYR:C	2.09	0.53
1:L:173:HIS:CE1	1:M:267:ILE:C	2.82	0.53
1:N:8:LEU:HB2	1:N:103:THR:OG1	2.08	0.53
1:O:208:ILE:HG22	1:O:209:VAL:N	2.23	0.53
1:Q:223:PHE:O	1:Q:227:MET:HG2	2.08	0.53
1:R:34:ILE:CG2	1:R:68:LYS:H	2.21	0.53
1:R:300:SER:HA	1:R:335:ARG:HG2	1.89	0.53
1:S:135:ALA:HB1	1:S:140:LEU:HD21	1.91	0.53
1:T:336:LYS:HE2	2:T:401:ADP:C5'	2.38	0.53
1:V:173:HIS:CE1	1:W:267:ILE:C	2.82	0.53
1:W:142:LEU:HD21	1:W:165:ILE:CD1	2.39	0.53
1:A:38:PRO:HB2	1:A:41:GLN:HB2	1.89	0.53
1:B:37:ARG:CG	1:B:38:PRO:CD	2.83	0.53
1:C:147:ARG:CG	1:C:147:ARG:NH2	2.71	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:208:ILE:HG22	1:C:209:VAL:N	2.23	0.53
1:C:360:GLN:O	1:C:364:GLU:HG3	2.08	0.53
1:D:116:ARG:HH12	1:D:375:PHE:HA	1.74	0.53
1:E:173:HIS:CE1	1:F:267:ILE:C	2.82	0.53
1:F:336:LYS:HE2	2:F:401:ADP:C5'	2.38	0.53
1:H:8:LEU:HB2	1:H:103:THR:OG1	2.08	0.53
1:I:116:ARG:HH12	1:I:375:PHE:HA	1.74	0.53
1:J:8:LEU:HB2	1:J:103:THR:OG1	2.08	0.53
1:J:110:LEU:HD12	1:J:177:ARG:HH11	1.72	0.53
1:K:208:ILE:HG22	1:K:209:VAL:N	2.23	0.53
1:M:208:ILE:HG22	1:M:209:VAL:N	2.23	0.53
1:N:7:ALA:CB	1:N:356:TRP:CZ2	2.91	0.53
1:O:147:ARG:HG3	1:O:147:ARG:NH2	2.22	0.53
1:P:223:PHE:O	1:P:227:MET:HG2	2.08	0.53
1:Q:116:ARG:HH12	1:Q:375:PHE:HA	1.74	0.53
1:Q:135:ALA:HB1	1:Q:140:LEU:HD21	1.91	0.53
1:Q:208:ILE:HG22	1:Q:209:VAL:N	2.24	0.53
1:R:223:PHE:O	1:R:227:MET:HG2	2.08	0.53
1:S:173:HIS:CE1	1:T:267:ILE:C	2.82	0.53
1:U:56:ASP:C	1:U:56:ASP:OD1	2.47	0.53
1:U:116:ARG:HH12	1:U:375:PHE:HA	1.74	0.53
1:A:7:ALA:CB	1:A:356:TRP:CZ2	2.91	0.53
1:B:38:PRO:HB2	1:B:41:GLN:HB2	1.90	0.53
1:B:135:ALA:HB1	1:B:140:LEU:HD21	1.91	0.53
1:B:223:PHE:O	1:B:227:MET:HG2	2.08	0.53
1:G:56:ASP:C	1:G:56:ASP:OD1	2.47	0.53
1:G:140:LEU:HD22	1:G:343:GLY:HA2	1.90	0.53
1:H:173:HIS:CE1	1:I:267:ILE:C	2.82	0.53
1:H:325:MET:HE3	1:J:244:ASP:O	2.07	0.53
1:H:360:GLN:O	1:H:364:GLU:HG3	2.08	0.53
1:J:56:ASP:OD1	1:J:56:ASP:C	2.47	0.53
1:L:135:ALA:HB1	1:L:140:LEU:HD21	1.91	0.53
1:N:147:ARG:NH2	1:N:147:ARG:HG3	2.22	0.53
1:O:135:ALA:HB1	1:O:140:LEU:HD21	1.91	0.53
1:O:143:TYR:CE2	1:Q:45:VAL:HG21	2.44	0.53
1:O:362:TYR:HE1	1:O:367:PRO:CB	2.19	0.53
1:R:56:ASP:OD1	1:R:56:ASP:C	2.47	0.53
1:S:208:ILE:HG22	1:S:209:VAL:N	2.23	0.53
1:S:223:PHE:CZ	1:S:266:PHE:HZ	2.26	0.53
1:T:116:ARG:HH12	1:T:375:PHE:HA	1.74	0.53
1:T:173:HIS:CE1	1:U:267:ILE:C	2.82	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:7:ALA:CB	1:U:356:TRP:CZ2	2.91	0.53
1:V:336:LYS:HE2	2:V:401:ADP:C5'	2.38	0.53
1:A:223:PHE:O	1:A:227:MET:HG2	2.08	0.53
1:B:34:ILE:CG2	1:B:68:LYS:H	2.21	0.53
1:C:116:ARG:HH12	1:C:375:PHE:HA	1.74	0.53
1:C:147:ARG:NH2	1:C:147:ARG:HG3	2.22	0.53
1:D:8:LEU:HB2	1:D:103:THR:OG1	2.08	0.53
1:D:173:HIS:CE1	1:E:267:ILE:C	2.82	0.53
1:D:299:MET:HE1	1:D:304:THR:HB	1.91	0.53
1:E:32:PRO:CG	1:E:55:GLY:O	2.55	0.53
1:E:116:ARG:HH12	1:E:375:PHE:HA	1.74	0.53
1:F:8:LEU:HB2	1:F:103:THR:OG1	2.08	0.53
1:F:140:LEU:HD22	1:F:343:GLY:HA2	1.90	0.53
1:G:32:PRO:CG	1:G:55:GLY:O	2.55	0.53
1:G:37:ARG:CG	1:G:38:PRO:CD	2.83	0.53
1:G:116:ARG:HH12	1:G:375:PHE:HA	1.74	0.53
1:H:34:ILE:CG2	1:H:68:LYS:H	2.21	0.53
1:H:140:LEU:HD22	1:H:343:GLY:HA2	1.90	0.53
1:H:208:ILE:HG22	1:H:209:VAL:N	2.24	0.53
1:I:143:TYR:HD2	1:I:346:LEU:HD13	1.70	0.53
1:J:223:PHE:O	1:J:227:MET:HG2	2.09	0.53
1:K:223:PHE:O	1:K:227:MET:HG2	2.08	0.53
1:N:56:ASP:C	1:N:56:ASP:OD1	2.47	0.53
1:N:208:ILE:HG22	1:N:209:VAL:N	2.23	0.53
1:O:34:ILE:CG2	1:O:68:LYS:H	2.21	0.53
1:O:110:LEU:HD12	1:O:177:ARG:HH11	1.72	0.53
1:Q:143:TYR:CE2	1:S:45:VAL:HG21	2.44	0.53
1:Q:336:LYS:HE2	2:Q:401:ADP:C5'	2.38	0.53
1:S:336:LYS:HE2	2:S:401:ADP:C5'	2.38	0.53
1:T:140:LEU:HD22	1:T:343:GLY:HA2	1.90	0.53
1:U:142:LEU:HD21	1:U:165:ILE:CD1	2.38	0.53
1:V:32:PRO:CG	1:V:55:GLY:O	2.55	0.53
1:V:147:ARG:NH2	1:V:147:ARG:HG3	2.22	0.53
1:B:142:LEU:HD21	1:B:165:ILE:CD1	2.38	0.53
1:C:7:ALA:CB	1:C:356:TRP:CZ2	2.91	0.53
1:D:38:PRO:HB2	1:D:41:GLN:HB2	1.89	0.53
1:E:34:ILE:CG2	1:E:67:LEU:HD22	2.28	0.53
1:G:147:ARG:HG3	1:G:147:ARG:NH2	2.22	0.53
1:H:143:TYR:CE2	1:J:45:VAL:HG21	2.44	0.53
1:I:142:LEU:HD21	1:I:165:ILE:CD1	2.38	0.53
1:I:223:PHE:CZ	1:I:266:PHE:HZ	2.26	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:368:SER:O	1:I:371:HIS:N	2.37	0.53
1:J:173:HIS:CE1	1:K:267:ILE:C	2.82	0.53
1:K:173:HIS:CE1	1:L:267:ILE:C	2.82	0.53
1:M:143:TYR:CE2	1:O:45:VAL:HG21	2.44	0.53
1:O:116:ARG:HH12	1:O:375:PHE:HA	1.74	0.53
1:O:223:PHE:O	1:O:227:MET:HG2	2.08	0.53
1:O:360:GLN:O	1:O:364:GLU:HG3	2.08	0.53
1:Q:38:PRO:HB2	1:Q:41:GLN:HB2	1.89	0.53
1:R:142:LEU:HD21	1:R:165:ILE:CD1	2.39	0.53
1:W:116:ARG:HH12	1:W:375:PHE:HA	1.74	0.53
1:A:173:HIS:CE1	1:B:267:ILE:C	2.82	0.53
1:B:143:TYR:CE2	1:D:45:VAL:HG21	2.44	0.53
1:C:223:PHE:O	1:C:227:MET:HG2	2.08	0.53
1:F:34:ILE:CG2	1:F:68:LYS:H	2.21	0.53
1:I:208:ILE:HG22	1:I:209:VAL:N	2.24	0.53
1:J:143:TYR:CE2	1:L:45:VAL:HG21	2.44	0.53
1:J:360:GLN:O	1:J:364:GLU:HG3	2.08	0.53
1:K:362:TYR:HE1	1:K:367:PRO:CB	2.19	0.53
1:N:32:PRO:CG	1:N:55:GLY:O	2.55	0.53
1:N:360:GLN:O	1:N:364:GLU:HG3	2.08	0.53
1:P:106:THR:HG22	1:P:140:LEU:CD1	2.38	0.53
1:U:8:LEU:HB2	1:U:103:THR:OG1	2.08	0.53
1:U:54:VAL:CG1	1:U:55:GLY:N	2.71	0.53
1:A:116:ARG:HH12	1:A:375:PHE:HA	1.74	0.52
1:D:34:ILE:CG2	1:D:68:LYS:H	2.21	0.52
1:D:169:TYR:CZ	1:D:172:PRO:HD3	2.45	0.52
1:F:38:PRO:HB2	1:F:41:GLN:HB2	1.89	0.52
1:G:34:ILE:CG2	1:G:68:LYS:H	2.21	0.52
1:G:143:TYR:CE2	1:I:45:VAL:HG21	2.44	0.52
1:G:336:LYS:HE2	2:G:401:ADP:C5'	2.38	0.52
1:M:169:TYR:CZ	1:M:172:PRO:HD3	2.45	0.52
1:N:37:ARG:CG	1:N:38:PRO:CD	2.83	0.52
1:N:147:ARG:CG	1:N:147:ARG:NH2	2.71	0.52
1:O:140:LEU:HD22	1:O:343:GLY:HA2	1.90	0.52
1:O:336:LYS:HE2	2:O:401:ADP:C5'	2.38	0.52
1:P:32:PRO:CG	1:P:55:GLY:O	2.55	0.52
1:U:336:LYS:HE2	2:U:401:ADP:C5'	2.38	0.52
1:V:169:TYR:CZ	1:V:172:PRO:HD3	2.45	0.52
1:V:362:TYR:HD1	1:V:367:PRO:HA	1.74	0.52
1:W:8:LEU:HB2	1:W:103:THR:OG1	2.08	0.52
1:W:34:ILE:CG2	1:W:68:LYS:H	2.21	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:34:ILE:CG2	1:E:68:LYS:H	2.21	0.52
1:E:135:ALA:HB1	1:E:140:LEU:HD21	1.91	0.52
1:F:299:MET:HE1	1:F:304:THR:HB	1.91	0.52
1:G:169:TYR:CZ	1:G:172:PRO:HD3	2.45	0.52
1:H:362:TYR:HD1	1:H:367:PRO:HA	1.75	0.52
1:H:368:SER:O	1:H:371:HIS:N	2.37	0.52
1:J:34:ILE:CG2	1:J:68:LYS:H	2.21	0.52
1:J:37:ARG:CG	1:J:38:PRO:CD	2.83	0.52
1:K:32:PRO:CG	1:K:55:GLY:O	2.55	0.52
1:K:37:ARG:CG	1:K:38:PRO:CD	2.83	0.52
1:K:56:ASP:C	1:K:56:ASP:OD1	2.47	0.52
1:K:116:ARG:HH12	1:K:375:PHE:HA	1.74	0.52
1:K:169:TYR:CZ	1:K:172:PRO:HD3	2.45	0.52
1:L:32:PRO:CG	1:L:55:GLY:O	2.55	0.52
1:N:38:PRO:HB2	1:N:41:GLN:HB2	1.90	0.52
1:P:142:LEU:HD21	1:P:165:ILE:CD1	2.39	0.52
1:R:116:ARG:HH12	1:R:375:PHE:HA	1.74	0.52
1:R:208:ILE:HG22	1:R:209:VAL:N	2.23	0.52
1:S:169:TYR:CZ	1:S:172:PRO:HD3	2.45	0.52
1:T:135:ALA:HB1	1:T:140:LEU:HD21	1.91	0.52
1:C:362:TYR:HE1	1:C:367:PRO:CB	2.19	0.52
1:E:360:GLN:O	1:E:364:GLU:HG3	2.08	0.52
1:E:368:SER:O	1:E:371:HIS:N	2.37	0.52
1:F:143:TYR:CE2	1:H:45:VAL:HG21	2.44	0.52
1:G:135:ALA:HB1	1:G:140:LEU:HD21	1.90	0.52
1:H:362:TYR:HE1	1:H:367:PRO:CB	2.19	0.52
1:J:361:GLU:HB3	1:J:369:ILE:CD1	2.14	0.52
1:M:135:ALA:HB1	1:M:140:LEU:HD21	1.91	0.52
1:O:173:HIS:CE1	1:P:267:ILE:C	2.82	0.52
1:P:34:ILE:CG2	1:P:68:LYS:H	2.21	0.52
1:P:362:TYR:HD1	1:P:367:PRO:HA	1.75	0.52
1:Q:110:LEU:HD12	1:Q:177:ARG:HH11	1.72	0.52
1:R:135:ALA:HB1	1:R:140:LEU:HD21	1.91	0.52
1:S:8:LEU:HB2	1:S:103:THR:OG1	2.08	0.52
1:V:37:ARG:CG	1:V:38:PRO:CD	2.83	0.52
1:V:56:ASP:C	1:V:56:ASP:OD1	2.47	0.52
1:V:140:LEU:HD22	1:V:343:GLY:HA2	1.90	0.52
1:V:143:TYR:HD1	1:V:143:TYR:C	2.09	0.52
1:W:368:SER:O	1:W:371:HIS:N	2.37	0.52
1:A:34:ILE:CG2	1:A:68:LYS:H	2.21	0.52
1:A:208:ILE:HG22	1:A:209:VAL:N	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:SER:O	1:A:371:HIS:N	2.37	0.52
1:B:140:LEU:HD22	1:B:343:GLY:HA2	1.90	0.52
1:B:169:TYR:CZ	1:B:172:PRO:HD3	2.45	0.52
1:E:37:ARG:CG	1:E:38:PRO:CD	2.83	0.52
1:E:54:VAL:CG1	1:E:55:GLY:N	2.71	0.52
1:E:169:TYR:CZ	1:E:172:PRO:HD3	2.45	0.52
1:F:116:ARG:HH12	1:F:375:PHE:HA	1.74	0.52
1:F:169:TYR:CZ	1:F:172:PRO:HD3	2.45	0.52
1:F:362:TYR:HD1	1:F:367:PRO:HA	1.75	0.52
1:G:208:ILE:HG22	1:G:209:VAL:N	2.23	0.52
1:H:38:PRO:HB2	1:H:41:GLN:HB2	1.90	0.52
1:I:135:ALA:HB1	1:I:140:LEU:HD21	1.91	0.52
1:K:140:LEU:HD22	1:K:343:GLY:HA2	1.90	0.52
1:K:147:ARG:NH2	1:K:147:ARG:HG3	2.22	0.52
1:L:169:TYR:CZ	1:L:172:PRO:HD3	2.44	0.52
1:M:140:LEU:HD22	1:M:343:GLY:HA2	1.90	0.52
1:M:336:LYS:HE2	2:M:401:ADP:C5'	2.38	0.52
1:M:360:GLN:O	1:M:364:GLU:HG3	2.08	0.52
1:O:169:TYR:CZ	1:O:172:PRO:HD3	2.45	0.52
1:O:299:MET:HE1	1:O:304:THR:HB	1.91	0.52
1:P:143:TYR:CE2	1:R:45:VAL:HG21	2.44	0.52
1:Q:140:LEU:HD22	1:Q:343:GLY:HA2	1.90	0.52
1:Q:360:GLN:O	1:Q:364:GLU:HG3	2.08	0.52
1:R:147:ARG:NH2	1:R:147:ARG:HG3	2.22	0.52
1:S:140:LEU:HD22	1:S:343:GLY:HA2	1.90	0.52
1:S:143:TYR:CE2	1:U:45:VAL:HG21	2.44	0.52
1:T:169:TYR:CZ	1:T:172:PRO:HD3	2.45	0.52
1:U:34:ILE:CG2	1:U:68:LYS:H	2.21	0.52
1:W:164:PRO:HG3	1:W:174:ALA:HB1	1.92	0.52
1:W:208:ILE:HG22	1:W:209:VAL:N	2.23	0.52
1:W:223:PHE:O	1:W:227:MET:HG2	2.09	0.52
1:A:362:TYR:HD1	1:A:367:PRO:HA	1.75	0.52
1:C:34:ILE:CG2	1:C:68:LYS:H	2.21	0.52
1:C:236:LEU:HD12	1:C:237:GLU:HG2	1.89	0.52
1:C:362:TYR:HD1	1:C:367:PRO:HA	1.75	0.52
1:E:362:TYR:HD1	1:E:367:PRO:HA	1.75	0.52
1:H:116:ARG:HH12	1:H:375:PHE:HA	1.74	0.52
1:I:140:LEU:HD22	1:I:343:GLY:HA2	1.90	0.52
1:I:143:TYR:CE2	1:K:45:VAL:HG21	2.44	0.52
1:J:362:TYR:HD1	1:J:367:PRO:HA	1.75	0.52
1:L:38:PRO:HB2	1:L:41:GLN:HB2	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:362:TYR:HD1	1:O:367:PRO:HA	1.75	0.52
1:Q:34:ILE:CG2	1:Q:68:LYS:H	2.21	0.52
1:R:362:TYR:HE1	1:R:367:PRO:CB	2.19	0.52
1:T:360:GLN:O	1:T:364:GLU:HG3	2.08	0.52
1:U:37:ARG:CG	1:U:38:PRO:CD	2.83	0.52
1:U:164:PRO:HG3	1:U:174:ALA:HB1	1.92	0.52
1:U:169:TYR:CZ	1:U:172:PRO:HD3	2.45	0.52
1:U:208:ILE:HG22	1:U:209:VAL:N	2.24	0.52
1:V:135:ALA:HB1	1:V:140:LEU:HD21	1.91	0.52
1:W:300:SER:HA	1:W:335:ARG:HG2	1.89	0.52
1:A:143:TYR:CE2	1:C:45:VAL:HG21	2.44	0.52
1:D:336:LYS:HE2	2:D:401:ADP:C5'	2.38	0.52
1:E:208:ILE:HG22	1:E:209:VAL:N	2.23	0.52
1:J:38:PRO:HB2	1:J:41:GLN:HB2	1.89	0.52
1:J:169:TYR:CZ	1:J:172:PRO:HD3	2.45	0.52
1:M:34:ILE:CG2	1:M:67:LEU:HD22	2.28	0.52
1:P:300:SER:HA	1:P:335:ARG:HG2	1.89	0.52
1:Q:362:TYR:HD1	1:Q:367:PRO:HA	1.75	0.52
1:S:142:LEU:HD21	1:S:165:ILE:CD1	2.38	0.52
1:T:143:TYR:CE2	1:V:45:VAL:HG21	2.44	0.52
1:U:360:GLN:O	1:U:364:GLU:HG3	2.08	0.52
1:W:360:GLN:O	1:W:364:GLU:HG3	2.08	0.52
1:A:164:PRO:HG3	1:A:174:ALA:HB1	1.92	0.52
1:D:140:LEU:HD22	1:D:343:GLY:HA2	1.90	0.52
1:G:143:TYR:HD1	1:G:143:TYR:C	2.09	0.52
1:H:223:PHE:O	1:H:227:MET:HG2	2.08	0.52
1:I:169:TYR:CZ	1:I:172:PRO:HD3	2.45	0.52
1:J:208:ILE:HG22	1:J:209:VAL:N	2.23	0.52
1:K:135:ALA:HB1	1:K:140:LEU:HD21	1.91	0.52
1:K:164:PRO:HG2	1:K:174:ALA:HB3	1.92	0.52
1:L:360:GLN:O	1:L:364:GLU:HG3	2.08	0.52
1:N:142:LEU:HD21	1:N:165:ILE:CD1	2.39	0.52
1:N:236:LEU:HD12	1:N:237:GLU:HG2	1.90	0.52
1:O:361:GLU:HB3	1:O:369:ILE:CD1	2.14	0.52
1:S:360:GLN:O	1:S:364:GLU:HG3	2.08	0.52
1:T:362:TYR:HD1	1:T:367:PRO:HA	1.75	0.52
1:U:143:TYR:CE2	1:W:45:VAL:HG21	2.44	0.52
1:V:34:ILE:CG2	1:V:67:LEU:HD22	2.27	0.52
1:V:164:PRO:HG2	1:V:174:ALA:HB3	1.92	0.52
1:V:208:ILE:HG22	1:V:209:VAL:N	2.23	0.52
1:A:361:GLU:HB3	1:A:369:ILE:CD1	2.14	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:143:TYR:CE2	1:F:45:VAL:HG21	2.44	0.52
1:K:336:LYS:HE2	2:K:401:ADP:C5'	2.38	0.52
1:L:147:ARG:CG	1:L:147:ARG:NH2	2.71	0.52
1:L:208:ILE:HG22	1:L:209:VAL:N	2.23	0.52
1:M:116:ARG:HH12	1:M:375:PHE:HA	1.74	0.52
1:M:362:TYR:HD1	1:M:367:PRO:HA	1.75	0.52
1:N:143:TYR:CE2	1:P:45:VAL:HG21	2.44	0.52
1:N:169:TYR:CZ	1:N:172:PRO:HD3	2.45	0.52
1:P:368:SER:O	1:P:371:HIS:N	2.37	0.52
1:Q:169:TYR:CZ	1:Q:172:PRO:HD3	2.45	0.52
1:U:300:SER:HA	1:U:335:ARG:HG2	1.89	0.52
1:E:143:TYR:CE2	1:G:45:VAL:HG21	2.44	0.52
1:G:142:LEU:HD21	1:G:165:ILE:CD1	2.39	0.52
1:I:164:PRO:HG2	1:I:174:ALA:HB3	1.92	0.52
1:I:362:TYR:HD1	1:I:367:PRO:HA	1.74	0.52
1:K:143:TYR:CE2	1:M:45:VAL:HG21	2.44	0.52
1:L:34:ILE:CG2	1:L:68:LYS:H	2.21	0.52
1:L:143:TYR:CE2	1:N:45:VAL:HG21	2.44	0.52
1:M:167:GLU:OE1	1:O:61:LYS:CE	2.58	0.52
1:O:164:PRO:HG2	1:O:174:ALA:HB3	1.92	0.52
1:O:167:GLU:OE1	1:Q:61:LYS:CE	2.58	0.52
1:P:116:ARG:HH12	1:P:375:PHE:HA	1.74	0.52
1:T:167:GLU:OE1	1:V:61:LYS:CE	2.58	0.52
1:T:208:ILE:HG22	1:T:209:VAL:N	2.24	0.52
1:B:336:LYS:HE2	2:B:401:ADP:C5'	2.38	0.52
1:D:362:TYR:HE1	1:D:367:PRO:CB	2.19	0.52
1:E:36:GLY:HA3	1:E:66:THR:O	2.10	0.52
1:I:167:GLU:OE1	1:K:61:LYS:CE	2.58	0.52
1:J:116:ARG:HH12	1:J:375:PHE:HA	1.74	0.52
1:J:230:ALA:HA	1:J:233:SER:HB2	1.92	0.52
1:K:143:TYR:CD1	1:K:143:TYR:C	2.75	0.52
1:P:36:GLY:HA3	1:P:66:THR:O	2.10	0.52
1:Q:167:GLU:OE1	1:S:61:LYS:CE	2.58	0.52
1:R:167:GLU:OE1	1:T:61:LYS:CE	2.58	0.52
1:S:36:GLY:HA3	1:S:66:THR:O	2.10	0.52
1:A:36:GLY:HA3	1:A:66:THR:O	2.10	0.51
1:A:169:TYR:CZ	1:A:172:PRO:HD3	2.45	0.51
1:B:36:GLY:HA3	1:B:66:THR:O	2.10	0.51
1:C:143:TYR:CE2	1:E:45:VAL:HG21	2.44	0.51
1:D:362:TYR:HD1	1:D:367:PRO:HA	1.75	0.51
1:E:2:GLU:OE2	1:E:2:GLU:HA	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:164:PRO:HG3	1:F:174:ALA:HB1	1.92	0.51
1:G:362:TYR:HD1	1:G:367:PRO:HA	1.75	0.51
1:J:147:ARG:CG	1:J:147:ARG:NH2	2.71	0.51
1:K:167:GLU:OE1	1:M:61:LYS:CE	2.58	0.51
1:L:167:GLU:OE1	1:N:61:LYS:CE	2.58	0.51
1:L:230:ALA:HA	1:L:233:SER:HB2	1.92	0.51
1:L:362:TYR:HD1	1:L:367:PRO:HA	1.75	0.51
1:L:368:SER:O	1:L:371:HIS:N	2.37	0.51
1:M:164:PRO:HG2	1:M:174:ALA:HB3	1.92	0.51
1:P:164:PRO:HG3	1:P:174:ALA:HB1	1.92	0.51
1:S:34:ILE:CG2	1:S:68:LYS:H	2.21	0.51
1:S:164:PRO:HG3	1:S:174:ALA:HB1	1.92	0.51
1:B:22:ALA:HB1	1:B:348:SER:CB	2.41	0.51
1:B:164:PRO:HG2	1:B:174:ALA:HB3	1.92	0.51
1:B:167:GLU:OE1	1:D:61:LYS:CE	2.58	0.51
1:C:164:PRO:HG3	1:C:174:ALA:HB1	1.92	0.51
1:D:164:PRO:HG3	1:D:174:ALA:HB1	1.92	0.51
1:F:361:GLU:HB3	1:F:369:ILE:CD1	2.14	0.51
1:I:58:ALA:CA	1:I:65:LEU:CD2	2.89	0.51
1:I:336:LYS:HE2	2:I:401:ADP:C5'	2.38	0.51
1:L:22:ALA:HB1	1:L:348:SER:CB	2.41	0.51
1:L:116:ARG:HH12	1:L:375:PHE:HA	1.74	0.51
1:N:34:ILE:CG2	1:N:68:LYS:H	2.21	0.51
1:N:362:TYR:HE1	1:N:367:PRO:CB	2.19	0.51
1:N:362:TYR:HD1	1:N:367:PRO:HA	1.75	0.51
1:O:58:ALA:CA	1:O:65:LEU:CD2	2.89	0.51
1:Q:22:ALA:HB1	1:Q:348:SER:CB	2.41	0.51
1:Q:36:GLY:HA3	1:Q:66:THR:O	2.10	0.51
1:Q:58:ALA:CA	1:Q:65:LEU:CD2	2.89	0.51
1:S:300:SER:HA	1:S:335:ARG:HG2	1.89	0.51
1:T:2:GLU:OE2	1:T:2:GLU:HA	2.10	0.51
1:T:164:PRO:HG2	1:T:174:ALA:HB3	1.92	0.51
1:T:362:TYR:HE1	1:T:367:PRO:CB	2.19	0.51
1:U:2:GLU:OE2	1:U:2:GLU:HA	2.10	0.51
1:W:32:PRO:CG	1:W:55:GLY:O	2.55	0.51
1:W:230:ALA:HA	1:W:233:SER:HB2	1.92	0.51
1:A:2:GLU:OE2	1:A:2:GLU:HA	2.10	0.51
1:A:332:PRO:HG2	1:A:335:ARG:NE	2.26	0.51
1:B:58:ALA:CA	1:B:65:LEU:CD2	2.89	0.51
1:C:169:TYR:CZ	1:C:172:PRO:HD3	2.45	0.51
1:C:332:PRO:HG2	1:C:335:ARG:NE	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:39:ARG:NE	1:D:66:THR:CA	2.69	0.51
1:E:22:ALA:HB1	1:E:348:SER:CB	2.41	0.51
1:E:164:PRO:HG2	1:E:174:ALA:HB3	1.92	0.51
1:F:2:GLU:OE2	1:F:2:GLU:HA	2.10	0.51
1:G:39:ARG:HG2	1:G:66:THR:HB	1.93	0.51
1:G:164:PRO:HG2	1:G:174:ALA:HB3	1.92	0.51
1:G:362:TYR:HE1	1:G:367:PRO:CB	2.19	0.51
1:H:164:PRO:HG3	1:H:174:ALA:HB1	1.92	0.51
1:H:230:ALA:HA	1:H:233:SER:HB2	1.92	0.51
1:I:2:GLU:OE2	1:I:2:GLU:HA	2.10	0.51
1:I:34:ILE:CG2	1:I:35:VAL:N	2.74	0.51
1:J:32:PRO:CG	1:J:55:GLY:O	2.55	0.51
1:K:39:ARG:HG2	1:K:66:THR:HB	1.93	0.51
1:K:58:ALA:CA	1:K:65:LEU:CD2	2.89	0.51
1:M:36:GLY:HA3	1:M:66:THR:O	2.10	0.51
1:M:58:ALA:CA	1:M:65:LEU:CD2	2.89	0.51
1:N:36:GLY:HA3	1:N:66:THR:O	2.10	0.51
1:N:164:PRO:HG3	1:N:174:ALA:HB1	1.92	0.51
1:P:167:GLU:OE1	1:R:61:LYS:CE	2.58	0.51
1:P:169:TYR:CZ	1:P:172:PRO:HD3	2.44	0.51
1:R:143:TYR:CE2	1:T:45:VAL:HG21	2.44	0.51
1:R:164:PRO:HG2	1:R:174:ALA:HB3	1.92	0.51
1:S:332:PRO:HG2	1:S:335:ARG:NE	2.26	0.51
1:S:362:TYR:HD1	1:S:367:PRO:HA	1.75	0.51
1:W:362:TYR:HD1	1:W:367:PRO:HA	1.75	0.51
1:A:34:ILE:CG2	1:A:35:VAL:N	2.74	0.51
1:A:167:GLU:OE1	1:C:61:LYS:CE	2.58	0.51
1:D:22:ALA:HB1	1:D:348:SER:CB	2.41	0.51
1:D:36:GLY:HA3	1:D:66:THR:O	2.10	0.51
1:G:36:GLY:HA3	1:G:66:THR:O	2.10	0.51
1:G:58:ALA:CA	1:G:65:LEU:CD2	2.89	0.51
1:H:169:TYR:CZ	1:H:172:PRO:HD3	2.45	0.51
1:J:332:PRO:HG2	1:J:335:ARG:NE	2.26	0.51
1:L:34:ILE:CG2	1:L:67:LEU:HD22	2.28	0.51
1:L:54:VAL:CG1	1:L:55:GLY:N	2.72	0.51
1:L:142:LEU:HD21	1:L:165:ILE:CD1	2.39	0.51
1:N:230:ALA:HA	1:N:233:SER:HB2	1.92	0.51
1:O:37:ARG:CG	1:O:38:PRO:CD	2.83	0.51
1:P:2:GLU:OE2	1:P:2:GLU:HA	2.10	0.51
1:P:362:TYR:HE1	1:P:367:PRO:CB	2.19	0.51
1:Q:164:PRO:HG2	1:Q:174:ALA:HB3	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:332:PRO:HG2	1:Q:335:ARG:NE	2.26	0.51
1:R:34:ILE:CG2	1:R:35:VAL:N	2.74	0.51
1:R:169:TYR:CZ	1:R:172:PRO:HD3	2.45	0.51
1:S:22:ALA:HB1	1:S:348:SER:CB	2.41	0.51
1:S:58:ALA:CA	1:S:65:LEU:CD2	2.89	0.51
1:S:167:GLU:OE1	1:U:61:LYS:CE	2.58	0.51
1:T:36:GLY:HA3	1:T:66:THR:O	2.10	0.51
1:T:37:ARG:CG	1:T:38:PRO:CD	2.83	0.51
1:U:36:GLY:HA3	1:U:66:THR:O	2.10	0.51
1:U:167:GLU:OE1	1:W:61:LYS:CE	2.58	0.51
1:U:230:ALA:HA	1:U:233:SER:HB2	1.92	0.51
1:U:361:GLU:HB3	1:U:369:ILE:CD1	2.14	0.51
1:W:34:ILE:CG2	1:W:67:LEU:HD22	2.27	0.51
1:C:36:GLY:HA3	1:C:66:THR:O	2.10	0.51
1:C:361:GLU:HB3	1:C:369:ILE:CD1	2.14	0.51
1:D:58:ALA:CA	1:D:65:LEU:CD2	2.89	0.51
1:D:164:PRO:HG2	1:D:174:ALA:HB3	1.92	0.51
1:G:34:ILE:CG2	1:G:35:VAL:N	2.74	0.51
1:J:167:GLU:OE1	1:L:61:LYS:CE	2.58	0.51
1:K:22:ALA:HB1	1:K:348:SER:CB	2.41	0.51
1:N:22:ALA:HB1	1:N:348:SER:CB	2.41	0.51
1:N:169:TYR:OH	1:P:40:HIS:HB3	2.10	0.51
1:P:34:ILE:CG2	1:P:35:VAL:N	2.74	0.51
1:Q:37:ARG:CG	1:Q:38:PRO:CD	2.83	0.51
1:R:164:PRO:HG3	1:R:174:ALA:HB1	1.92	0.51
1:T:22:ALA:HB1	1:T:348:SER:CB	2.41	0.51
1:T:39:ARG:HG2	1:T:66:THR:HB	1.93	0.51
1:V:58:ALA:CA	1:V:65:LEU:CD2	2.89	0.51
1:W:169:TYR:CZ	1:W:172:PRO:HD3	2.45	0.51
1:B:164:PRO:HG3	1:B:174:ALA:HB1	1.92	0.51
1:C:34:ILE:CG2	1:C:67:LEU:HD22	2.28	0.51
1:D:167:GLU:OE1	1:F:61:LYS:CE	2.58	0.51
1:F:36:GLY:HA3	1:F:66:THR:O	2.10	0.51
1:F:37:ARG:CG	1:F:38:PRO:CD	2.83	0.51
1:F:58:ALA:CA	1:F:65:LEU:CD2	2.89	0.51
1:G:34:ILE:HG23	1:G:68:LYS:N	2.26	0.51
1:G:167:GLU:OE1	1:I:61:LYS:CE	2.58	0.51
1:H:332:PRO:HG2	1:H:335:ARG:NE	2.26	0.51
1:J:22:ALA:HB1	1:J:348:SER:CB	2.41	0.51
1:L:2:GLU:HA	1:L:2:GLU:OE2	2.11	0.51
1:L:36:GLY:HA3	1:L:66:THR:O	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:116:ARG:HH12	1:N:375:PHE:HA	1.74	0.51
1:N:167:GLU:OE1	1:P:61:LYS:CE	2.58	0.51
1:O:332:PRO:HG2	1:O:335:ARG:NE	2.26	0.51
1:P:164:PRO:HG2	1:P:174:ALA:HB3	1.92	0.51
1:P:169:TYR:OH	1:R:40:HIS:HB3	2.10	0.51
1:S:230:ALA:HA	1:S:233:SER:HB2	1.92	0.51
1:T:332:PRO:HG2	1:T:335:ARG:NE	2.26	0.51
1:U:34:ILE:HG23	1:U:68:LYS:N	2.26	0.51
1:U:332:PRO:HG2	1:U:335:ARG:NE	2.26	0.51
1:A:169:TYR:OH	1:C:40:HIS:HB3	2.10	0.51
1:B:34:ILE:HG23	1:B:68:LYS:N	2.26	0.51
1:B:169:TYR:OH	1:D:40:HIS:HB3	2.10	0.51
1:C:34:ILE:CG2	1:C:35:VAL:N	2.74	0.51
1:C:34:ILE:HG12	1:C:69:TYR:CE1	2.46	0.51
1:C:164:PRO:HG2	1:C:174:ALA:HB3	1.92	0.51
1:D:230:ALA:HA	1:D:233:SER:HB2	1.92	0.51
1:E:34:ILE:HG23	1:E:68:LYS:N	2.26	0.51
1:E:58:ALA:CA	1:E:65:LEU:CD2	2.89	0.51
1:E:332:PRO:HG2	1:E:335:ARG:NE	2.26	0.51
1:F:34:ILE:CG2	1:F:67:LEU:HD22	2.28	0.51
1:F:167:GLU:OE1	1:H:61:LYS:CE	2.58	0.51
1:I:34:ILE:HG23	1:I:68:LYS:N	2.26	0.51
1:K:362:TYR:HD1	1:K:367:PRO:HA	1.75	0.51
1:L:332:PRO:HG2	1:L:335:ARG:NE	2.26	0.51
1:O:36:GLY:HA3	1:O:66:THR:O	2.10	0.51
1:Q:2:GLU:HA	1:Q:2:GLU:OE2	2.11	0.51
1:Q:230:ALA:HA	1:Q:233:SER:HB2	1.92	0.51
1:Q:300:SER:HA	1:Q:335:ARG:HG2	1.89	0.51
1:R:362:TYR:HD1	1:R:367:PRO:HA	1.75	0.51
1:T:34:ILE:HG12	1:T:69:TYR:CE1	2.46	0.51
1:T:58:ALA:CA	1:T:65:LEU:CD2	2.89	0.51
1:T:164:PRO:HG3	1:T:174:ALA:HB1	1.92	0.51
1:U:58:ALA:CA	1:U:65:LEU:CD2	2.89	0.51
1:V:332:PRO:HG2	1:V:335:ARG:NE	2.26	0.51
1:A:34:ILE:HG23	1:A:68:LYS:N	2.26	0.51
1:A:230:ALA:HA	1:A:233:SER:HB2	1.92	0.51
1:B:2:GLU:OE2	1:B:2:GLU:HA	2.10	0.51
1:C:230:ALA:HA	1:C:233:SER:HB2	1.92	0.51
1:D:34:ILE:HG23	1:D:68:LYS:N	2.26	0.51
1:D:34:ILE:HG12	1:D:69:TYR:CE1	2.46	0.51
1:F:230:ALA:HA	1:F:233:SER:HB2	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2:GLU:OE2	1:H:2:GLU:HA	2.10	0.51
1:H:34:ILE:CG2	1:H:67:LEU:HD22	2.28	0.51
1:H:36:GLY:HA3	1:H:66:THR:O	2.10	0.51
1:H:58:ALA:CA	1:H:65:LEU:CD2	2.89	0.51
1:H:299:MET:HE1	1:H:304:THR:HB	1.93	0.51
1:J:164:PRO:HG3	1:J:174:ALA:HB1	1.92	0.51
1:K:34:ILE:HG12	1:K:69:TYR:CE1	2.46	0.51
1:L:164:PRO:HG3	1:L:174:ALA:HB1	1.92	0.51
1:L:169:TYR:OH	1:N:40:HIS:HB3	2.10	0.51
1:M:2:GLU:OE2	1:M:2:GLU:HA	2.10	0.51
1:O:34:ILE:HG12	1:O:69:TYR:CE1	2.46	0.51
1:O:39:ARG:HG2	1:O:66:THR:HB	1.93	0.51
1:P:347:ALA:HA	1:P:356:TRP:CZ2	2.46	0.51
1:Q:164:PRO:HG3	1:Q:174:ALA:HB1	1.92	0.51
1:W:2:GLU:OE2	1:W:2:GLU:HA	2.10	0.51
1:B:39:ARG:HG2	1:B:66:THR:HB	1.93	0.51
1:B:332:PRO:HG2	1:B:335:ARG:NE	2.26	0.51
1:C:34:ILE:HG23	1:C:68:LYS:N	2.26	0.51
1:C:39:ARG:HG2	1:C:66:THR:HB	1.92	0.51
1:E:164:PRO:HG3	1:E:174:ALA:HB1	1.92	0.51
1:E:167:GLU:OE1	1:G:61:LYS:CE	2.58	0.51
1:F:34:ILE:HG23	1:F:68:LYS:N	2.26	0.51
1:H:167:GLU:OE1	1:J:61:LYS:CE	2.58	0.51
1:I:164:PRO:HG3	1:I:174:ALA:HB1	1.92	0.51
1:J:34:ILE:HG23	1:J:68:LYS:N	2.26	0.51
1:J:164:PRO:HG2	1:J:174:ALA:HB3	1.92	0.51
1:L:34:ILE:HG23	1:L:68:LYS:N	2.26	0.51
1:L:34:ILE:HG12	1:L:69:TYR:CE1	2.46	0.51
1:M:39:ARG:NE	1:M:66:THR:CA	2.69	0.51
1:O:300:SER:HA	1:O:335:ARG:HG2	1.89	0.51
1:Q:142:LEU:HD21	1:Q:165:ILE:CD1	2.39	0.51
1:R:58:ALA:CA	1:R:65:LEU:CD2	2.89	0.51
1:R:347:ALA:HA	1:R:356:TRP:CZ2	2.46	0.51
1:T:347:ALA:HA	1:T:356:TRP:CZ2	2.46	0.51
1:U:34:ILE:HG12	1:U:69:TYR:CE1	2.46	0.51
1:W:164:PRO:HG2	1:W:174:ALA:HB3	1.92	0.51
1:B:39:ARG:NE	1:B:66:THR:CA	2.69	0.51
1:C:54:VAL:CG1	1:C:55:GLY:N	2.72	0.51
1:D:169:TYR:OH	1:F:40:HIS:HB3	2.10	0.51
1:E:34:ILE:HG12	1:E:69:TYR:CE1	2.46	0.51
1:F:332:PRO:HG2	1:F:335:ARG:NE	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:36:GLY:HA3	1:I:66:THR:O	2.10	0.51
1:J:347:ALA:HA	1:J:356:TRP:CZ2	2.46	0.51
1:K:34:ILE:CG2	1:K:35:VAL:N	2.74	0.51
1:K:34:ILE:HG23	1:K:68:LYS:N	2.26	0.51
1:K:164:PRO:HG3	1:K:174:ALA:HB1	1.92	0.51
1:L:347:ALA:HA	1:L:356:TRP:CZ2	2.46	0.51
1:L:369:ILE:C	1:L:371:HIS:H	2.15	0.51
1:M:347:ALA:HA	1:M:356:TRP:CZ2	2.46	0.51
1:N:300:SER:HA	1:N:335:ARG:HG2	1.89	0.51
1:R:332:PRO:HG2	1:R:335:ARG:NE	2.26	0.51
1:R:336:LYS:HE2	2:R:401:ADP:C5'	2.38	0.51
1:T:34:ILE:CG2	1:T:35:VAL:N	2.74	0.51
1:U:22:ALA:HB1	1:U:348:SER:CB	2.41	0.51
1:V:36:GLY:HA3	1:V:66:THR:O	2.10	0.51
1:V:347:ALA:HA	1:V:356:TRP:CZ2	2.47	0.51
1:A:58:ALA:CA	1:A:65:LEU:CD2	2.89	0.50
1:B:230:ALA:HA	1:B:233:SER:HB2	1.92	0.50
1:E:142:LEU:HD21	1:E:165:ILE:CD1	2.39	0.50
1:F:22:ALA:HB1	1:F:348:SER:CB	2.41	0.50
1:F:147:ARG:CG	1:F:147:ARG:NH2	2.71	0.50
1:G:22:ALA:HB1	1:G:348:SER:CB	2.41	0.50
1:G:332:PRO:HG2	1:G:335:ARG:NE	2.26	0.50
1:H:34:ILE:HG23	1:H:68:LYS:N	2.26	0.50
1:H:34:ILE:HG12	1:H:69:TYR:CE1	2.46	0.50
1:H:347:ALA:HA	1:H:356:TRP:CZ2	2.46	0.50
1:J:34:ILE:HG12	1:J:69:TYR:CE1	2.46	0.50
1:K:169:TYR:OH	1:M:40:HIS:HB3	2.10	0.50
1:M:22:ALA:HB1	1:M:348:SER:CB	2.41	0.50
1:M:32:PRO:CG	1:M:55:GLY:O	2.55	0.50
1:M:164:PRO:HG3	1:M:174:ALA:HB1	1.92	0.50
1:M:169:TYR:OH	1:O:40:HIS:HB3	2.10	0.50
1:N:34:ILE:HG12	1:N:69:TYR:CE1	2.46	0.50
1:N:347:ALA:HA	1:N:356:TRP:CZ2	2.46	0.50
1:N:369:ILE:C	1:N:371:HIS:H	2.15	0.50
1:O:32:PRO:CG	1:O:55:GLY:O	2.55	0.50
1:P:34:ILE:HG23	1:P:68:LYS:N	2.26	0.50
1:P:230:ALA:HA	1:P:233:SER:HB2	1.92	0.50
1:Q:34:ILE:HG12	1:Q:69:TYR:CE1	2.46	0.50
1:U:32:PRO:CG	1:U:55:GLY:O	2.55	0.50
1:U:147:ARG:CG	1:U:147:ARG:NH2	2.71	0.50
1:U:362:TYR:HD1	1:U:367:PRO:HA	1.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:34:ILE:CG2	1:V:35:VAL:N	2.74	0.50
1:V:34:ILE:HG12	1:V:69:TYR:CE1	2.46	0.50
1:V:164:PRO:HG3	1:V:174:ALA:HB1	1.92	0.50
1:C:167:GLU:OE1	1:E:61:LYS:CE	2.58	0.50
1:E:230:ALA:HA	1:E:233:SER:HB2	1.92	0.50
1:F:32:PRO:CG	1:F:55:GLY:O	2.55	0.50
1:F:347:ALA:HA	1:F:356:TRP:CZ2	2.46	0.50
1:G:164:PRO:HG3	1:G:174:ALA:HB1	1.92	0.50
1:I:169:TYR:OH	1:K:40:HIS:HB3	2.10	0.50
1:I:347:ALA:HA	1:I:356:TRP:CZ2	2.46	0.50
1:J:34:ILE:CG2	1:J:35:VAL:N	2.74	0.50
1:J:58:ALA:CA	1:J:65:LEU:CD2	2.89	0.50
1:J:369:ILE:C	1:J:371:HIS:H	2.15	0.50
1:K:347:ALA:HA	1:K:356:TRP:CZ2	2.47	0.50
1:L:164:PRO:HG2	1:L:174:ALA:HB3	1.92	0.50
1:M:34:ILE:HG23	1:M:68:LYS:N	2.26	0.50
1:M:332:PRO:HG2	1:M:335:ARG:NE	2.26	0.50
1:N:332:PRO:HG2	1:N:335:ARG:NE	2.26	0.50
1:O:169:TYR:OH	1:Q:40:HIS:HB3	2.10	0.50
1:O:347:ALA:HA	1:O:356:TRP:CZ2	2.46	0.50
1:Q:32:PRO:CG	1:Q:55:GLY:O	2.55	0.50
1:R:34:ILE:HG12	1:R:69:TYR:CE1	2.46	0.50
1:R:230:ALA:HA	1:R:233:SER:HB2	1.92	0.50
1:V:230:ALA:HA	1:V:233:SER:HB2	1.92	0.50
1:A:34:ILE:HG12	1:A:69:TYR:CE1	2.46	0.50
1:F:164:PRO:HG2	1:F:174:ALA:HB3	1.92	0.50
1:G:369:ILE:C	1:G:371:HIS:H	2.15	0.50
1:I:362:TYR:HE1	1:I:367:PRO:CB	2.19	0.50
1:I:369:ILE:C	1:I:371:HIS:H	2.15	0.50
1:J:36:GLY:HA3	1:J:66:THR:O	2.10	0.50
1:L:34:ILE:CG2	1:L:35:VAL:N	2.74	0.50
1:M:300:SER:HA	1:M:335:ARG:HG2	1.89	0.50
1:P:22:ALA:HB1	1:P:348:SER:CB	2.41	0.50
1:P:39:ARG:HG2	1:P:66:THR:HB	1.93	0.50
1:P:58:ALA:CA	1:P:65:LEU:CD2	2.89	0.50
1:Q:34:ILE:HD13	1:Q:67:LEU:CD1	2.41	0.50
1:Q:37:ARG:CG	1:Q:38:PRO:N	2.75	0.50
1:S:34:ILE:HG23	1:S:68:LYS:N	2.26	0.50
1:S:34:ILE:HG12	1:S:69:TYR:CE1	2.46	0.50
1:S:164:PRO:HG2	1:S:174:ALA:HB3	1.92	0.50
1:U:164:PRO:HG2	1:U:174:ALA:HB3	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:169:TYR:OH	1:W:40:HIS:HB3	2.10	0.50
1:V:22:ALA:HB1	1:V:348:SER:CB	2.41	0.50
1:W:36:GLY:HA3	1:W:66:THR:O	2.10	0.50
1:W:58:ALA:CA	1:W:65:LEU:CD2	2.89	0.50
1:A:164:PRO:HG2	1:A:174:ALA:HB3	1.92	0.50
1:B:362:TYR:HD1	1:B:367:PRO:HA	1.75	0.50
1:C:58:ALA:CA	1:C:65:LEU:CD2	2.89	0.50
1:D:40:HIS:O	1:D:41:GLN:O	2.30	0.50
1:D:347:ALA:HA	1:D:356:TRP:CZ2	2.46	0.50
1:E:34:ILE:CG2	1:E:35:VAL:N	2.74	0.50
1:F:34:ILE:HG12	1:F:69:TYR:CE1	2.46	0.50
1:H:37:ARG:CG	1:H:38:PRO:N	2.75	0.50
1:H:164:PRO:HG2	1:H:174:ALA:HB3	1.92	0.50
1:J:142:LEU:HD21	1:J:165:ILE:CD1	2.39	0.50
1:K:36:GLY:HA3	1:K:66:THR:O	2.10	0.50
1:N:34:ILE:CG2	1:N:35:VAL:N	2.74	0.50
1:N:34:ILE:HG23	1:N:68:LYS:N	2.26	0.50
1:O:40:HIS:O	1:O:41:GLN:O	2.30	0.50
1:O:230:ALA:HA	1:O:233:SER:HB2	1.92	0.50
1:R:36:GLY:HA3	1:R:66:THR:O	2.10	0.50
1:R:169:TYR:OH	1:T:40:HIS:HB3	2.10	0.50
1:S:2:GLU:HA	1:S:2:GLU:OE2	2.10	0.50
1:V:34:ILE:HG23	1:V:68:LYS:N	2.26	0.50
1:V:39:ARG:HG2	1:V:66:THR:HB	1.93	0.50
1:W:37:ARG:CG	1:W:38:PRO:N	2.75	0.50
1:A:22:ALA:HB1	1:A:348:SER:CB	2.41	0.50
1:B:34:ILE:CG2	1:B:35:VAL:N	2.74	0.50
1:B:40:HIS:O	1:B:41:GLN:O	2.30	0.50
1:B:347:ALA:HA	1:B:356:TRP:CZ2	2.46	0.50
1:C:169:TYR:OH	1:E:40:HIS:HB3	2.10	0.50
1:F:37:ARG:CG	1:F:38:PRO:N	2.75	0.50
1:F:40:HIS:O	1:F:41:GLN:O	2.30	0.50
1:G:169:TYR:OH	1:I:40:HIS:HB3	2.10	0.50
1:G:347:ALA:HA	1:G:356:TRP:CZ2	2.46	0.50
1:L:37:ARG:CG	1:L:38:PRO:N	2.75	0.50
1:M:40:HIS:O	1:M:41:GLN:O	2.30	0.50
1:O:34:ILE:CG2	1:O:35:VAL:N	2.74	0.50
1:O:34:ILE:HG23	1:O:68:LYS:N	2.26	0.50
1:O:164:PRO:HG3	1:O:174:ALA:HB1	1.92	0.50
1:P:369:ILE:C	1:P:371:HIS:H	2.15	0.50
1:Q:40:HIS:O	1:Q:41:GLN:O	2.30	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:ILE:HG23	1:R:68:LYS:N	2.26	0.50
1:S:40:HIS:O	1:S:41:GLN:O	2.30	0.50
1:U:37:ARG:CG	1:U:38:PRO:N	2.75	0.50
1:W:39:ARG:HG2	1:W:66:THR:HB	1.92	0.50
1:W:332:PRO:HG2	1:W:335:ARG:NE	2.26	0.50
1:A:290:ARG:NH1	1:C:244:ASP:OD1	2.45	0.50
1:B:37:ARG:CG	1:B:38:PRO:N	2.75	0.50
1:D:32:PRO:CG	1:D:55:GLY:O	2.55	0.50
1:E:290:ARG:NH1	1:G:244:ASP:OD1	2.45	0.50
1:E:361:GLU:HB3	1:E:369:ILE:CD1	2.14	0.50
1:F:34:ILE:HD13	1:F:67:LEU:CD1	2.41	0.50
1:H:34:ILE:CG2	1:H:35:VAL:N	2.74	0.50
1:H:40:HIS:O	1:H:41:GLN:O	2.30	0.50
1:J:362:TYR:HE1	1:J:367:PRO:CB	2.19	0.50
1:K:40:HIS:O	1:K:41:GLN:O	2.30	0.50
1:M:34:ILE:HG12	1:M:69:TYR:CE1	2.46	0.50
1:N:164:PRO:HG2	1:N:174:ALA:HB3	1.92	0.50
1:N:290:ARG:NH1	1:P:244:ASP:OD1	2.45	0.50
1:O:34:ILE:HD13	1:O:67:LEU:CD1	2.41	0.50
1:P:290:ARG:NH1	1:R:244:ASP:OD1	2.45	0.50
1:P:332:PRO:HG2	1:P:335:ARG:NE	2.26	0.50
1:Q:34:ILE:CG2	1:Q:35:VAL:N	2.74	0.50
1:Q:227:MET:HE3	1:Q:227:MET:HA	1.93	0.50
1:Q:347:ALA:HA	1:Q:356:TRP:CZ2	2.47	0.50
1:T:290:ARG:NH1	1:V:244:ASP:OD1	2.45	0.50
1:C:287:ILE:HG13	1:C:288:ASP:N	2.27	0.50
1:D:2:GLU:OE2	1:D:2:GLU:HA	2.10	0.50
1:D:332:PRO:HG2	1:D:335:ARG:NE	2.26	0.50
1:E:347:ALA:HA	1:E:356:TRP:CZ2	2.46	0.50
1:E:369:ILE:C	1:E:371:HIS:H	2.15	0.50
1:F:169:TYR:OH	1:H:40:HIS:HB3	2.10	0.50
1:G:290:ARG:NH1	1:I:244:ASP:OD1	2.45	0.50
1:I:34:ILE:HG12	1:I:69:TYR:CE1	2.46	0.50
1:I:290:ARG:NH1	1:K:244:ASP:OD1	2.45	0.50
1:I:332:PRO:HG2	1:I:335:ARG:NE	2.26	0.50
1:J:34:ILE:CG2	1:J:67:LEU:HD22	2.27	0.50
1:K:332:PRO:HG2	1:K:335:ARG:NE	2.26	0.50
1:L:39:ARG:HG2	1:L:66:THR:HB	1.93	0.50
1:L:58:ALA:CA	1:L:65:LEU:CD2	2.89	0.50
1:M:35:VAL:CA	1:M:54:VAL:CG2	2.90	0.50
1:N:58:ALA:CA	1:N:65:LEU:CD2	2.89	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:34:ILE:HG12	1:P:69:TYR:CE1	2.46	0.50
1:Q:169:TYR:OH	1:S:40:HIS:HB3	2.10	0.50
1:R:39:ARG:HG2	1:R:66:THR:HB	1.92	0.50
1:S:37:ARG:CG	1:S:38:PRO:N	2.75	0.50
1:S:347:ALA:HA	1:S:356:TRP:CZ2	2.46	0.50
1:T:230:ALA:HA	1:T:233:SER:HB2	1.92	0.50
1:U:40:HIS:O	1:U:41:GLN:O	2.30	0.50
1:W:34:ILE:CG2	1:W:35:VAL:N	2.74	0.50
1:W:34:ILE:HG23	1:W:68:LYS:N	2.26	0.50
1:W:40:HIS:O	1:W:41:GLN:O	2.30	0.50
1:A:143:TYR:HD1	1:A:143:TYR:C	2.09	0.50
1:A:287:ILE:HG13	1:A:288:ASP:N	2.27	0.50
1:C:143:TYR:HD1	1:C:143:TYR:C	2.09	0.50
1:E:169:TYR:OH	1:G:40:HIS:HB3	2.10	0.50
1:E:287:ILE:HG13	1:E:288:ASP:N	2.27	0.50
1:G:37:ARG:CG	1:G:38:PRO:N	2.75	0.50
1:H:32:PRO:CG	1:H:55:GLY:O	2.55	0.50
1:H:369:ILE:C	1:H:371:HIS:H	2.15	0.50
1:I:230:ALA:HA	1:I:233:SER:HB2	1.92	0.50
1:J:169:TYR:OH	1:L:40:HIS:HB3	2.10	0.50
1:K:34:ILE:HD13	1:K:67:LEU:CD1	2.41	0.50
1:K:300:SER:HA	1:K:335:ARG:HG2	1.89	0.50
1:O:35:VAL:CA	1:O:54:VAL:CG2	2.90	0.50
1:Q:34:ILE:CG2	1:Q:67:LEU:HD22	2.28	0.50
1:R:35:VAL:CA	1:R:54:VAL:CG2	2.90	0.50
1:R:287:ILE:HG13	1:R:288:ASP:N	2.27	0.50
1:T:35:VAL:CA	1:T:54:VAL:CG2	2.90	0.50
1:T:369:ILE:C	1:T:371:HIS:H	2.15	0.50
1:B:32:PRO:CG	1:B:55:GLY:O	2.55	0.50
1:B:147:ARG:CG	1:B:147:ARG:NH2	2.71	0.50
1:D:34:ILE:HD13	1:D:67:LEU:CD1	2.41	0.50
1:D:37:ARG:CG	1:D:38:PRO:N	2.75	0.50
1:G:34:ILE:HG12	1:G:69:TYR:CE1	2.46	0.50
1:G:230:ALA:HA	1:G:233:SER:HB2	1.92	0.50
1:H:169:TYR:OH	1:J:40:HIS:HB3	2.10	0.50
1:I:40:HIS:O	1:I:41:GLN:O	2.30	0.50
1:K:35:VAL:CA	1:K:54:VAL:CG2	2.90	0.50
1:K:369:ILE:C	1:K:371:HIS:H	2.15	0.50
1:L:290:ARG:NH1	1:N:244:ASP:OD1	2.45	0.50
1:M:37:ARG:CG	1:M:38:PRO:N	2.75	0.50
1:O:290:ARG:NH1	1:Q:244:ASP:OD1	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:35:VAL:CA	1:P:54:VAL:CG2	2.90	0.50
1:Q:147:ARG:CG	1:Q:147:ARG:NH2	2.71	0.50
1:R:299:MET:HE1	1:R:304:THR:HB	1.94	0.50
1:R:369:ILE:C	1:R:371:HIS:H	2.15	0.50
1:U:347:ALA:HA	1:U:356:TRP:CZ2	2.46	0.50
1:V:37:ARG:CG	1:V:38:PRO:N	2.75	0.50
1:A:37:ARG:CG	1:A:38:PRO:N	2.75	0.49
1:B:34:ILE:HD13	1:B:67:LEU:CD1	2.41	0.49
1:B:34:ILE:HG12	1:B:69:TYR:CE1	2.46	0.49
1:C:347:ALA:HA	1:C:356:TRP:CZ2	2.46	0.49
1:F:39:ARG:HG2	1:F:66:THR:HB	1.93	0.49
1:G:287:ILE:HG13	1:G:288:ASP:N	2.27	0.49
1:J:37:ARG:CG	1:J:38:PRO:N	2.75	0.49
1:J:39:ARG:HG2	1:J:66:THR:HB	1.93	0.49
1:J:40:HIS:O	1:J:41:GLN:O	2.30	0.49
1:K:34:ILE:CG2	1:K:67:LEU:HD22	2.28	0.49
1:K:290:ARG:NH1	1:M:244:ASP:OD1	2.45	0.49
1:M:34:ILE:CG2	1:M:35:VAL:N	2.74	0.49
1:M:290:ARG:NH1	1:O:244:ASP:OD1	2.45	0.49
1:Q:34:ILE:HG23	1:Q:68:LYS:N	2.26	0.49
1:T:34:ILE:HG23	1:T:68:LYS:N	2.26	0.49
1:V:40:HIS:O	1:V:41:GLN:O	2.30	0.49
1:V:142:LEU:HD21	1:V:165:ILE:CD1	2.39	0.49
1:W:22:ALA:HB1	1:W:348:SER:CB	2.41	0.49
1:D:39:ARG:HG2	1:D:66:THR:HB	1.92	0.49
1:E:147:ARG:CG	1:E:147:ARG:NH2	2.71	0.49
1:F:44:MET:CG	1:F:45:VAL:N	2.75	0.49
1:I:287:ILE:HG22	1:I:290:ARG:CZ	2.43	0.49
1:K:230:ALA:HA	1:K:233:SER:HB2	1.92	0.49
1:L:40:HIS:O	1:L:41:GLN:O	2.30	0.49
1:L:287:ILE:HG22	1:L:290:ARG:CZ	2.43	0.49
1:N:39:ARG:HG2	1:N:66:THR:HB	1.93	0.49
1:Q:39:ARG:NE	1:Q:66:THR:CA	2.69	0.49
1:S:34:ILE:CG2	1:S:35:VAL:N	2.74	0.49
1:S:169:TYR:OH	1:U:40:HIS:HB3	2.10	0.49
1:W:34:ILE:HG12	1:W:69:TYR:CE1	2.46	0.49
1:W:299:MET:HE1	1:W:304:THR:HB	1.95	0.49
1:A:347:ALA:HA	1:A:356:TRP:CZ2	2.46	0.49
1:C:35:VAL:CA	1:C:54:VAL:CG2	2.90	0.49
1:F:287:ILE:HG22	1:F:290:ARG:CZ	2.43	0.49
1:I:39:ARG:HG2	1:I:66:THR:HB	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:227:MET:HA	1:M:227:MET:HE3	1.94	0.49
1:M:230:ALA:HA	1:M:233:SER:HB2	1.92	0.49
1:O:287:ILE:HG22	1:O:290:ARG:CZ	2.43	0.49
1:Q:35:VAL:CA	1:Q:54:VAL:CG2	2.90	0.49
1:R:37:ARG:CG	1:R:38:PRO:N	2.75	0.49
1:T:40:HIS:O	1:T:41:GLN:O	2.30	0.49
1:V:35:VAL:CA	1:V:54:VAL:CG2	2.90	0.49
1:V:287:ILE:HG22	1:V:290:ARG:CZ	2.43	0.49
1:W:287:ILE:HG13	1:W:288:ASP:N	2.27	0.49
1:W:347:ALA:HA	1:W:356:TRP:CZ2	2.47	0.49
1:A:39:ARG:HG2	1:A:66:THR:HB	1.93	0.49
1:H:22:ALA:HB1	1:H:348:SER:CB	2.41	0.49
1:I:35:VAL:CA	1:I:54:VAL:CG2	2.90	0.49
1:M:369:ILE:C	1:M:371:HIS:H	2.15	0.49
1:N:35:VAL:CA	1:N:54:VAL:CG2	2.90	0.49
1:O:142:LEU:HD21	1:O:165:ILE:CD1	2.39	0.49
1:S:39:ARG:HG2	1:S:66:THR:HB	1.93	0.49
1:S:287:ILE:HG22	1:S:290:ARG:CZ	2.43	0.49
1:T:169:TYR:OH	1:V:40:HIS:HB3	2.10	0.49
1:A:147:ARG:CG	1:A:147:ARG:NH2	2.71	0.49
1:B:287:ILE:HG22	1:B:290:ARG:CZ	2.43	0.49
1:C:369:ILE:C	1:C:371:HIS:H	2.15	0.49
1:D:290:ARG:NH1	1:F:244:ASP:OD1	2.45	0.49
1:E:35:VAL:CA	1:E:54:VAL:CG2	2.90	0.49
1:G:40:HIS:O	1:G:41:GLN:O	2.30	0.49
1:H:290:ARG:NH1	1:J:244:ASP:OD1	2.45	0.49
1:I:43:VAL:O	1:I:44:MET:HG2	2.13	0.49
1:L:287:ILE:HG13	1:L:288:ASP:N	2.27	0.49
1:M:34:ILE:HD13	1:M:67:LEU:CD1	2.41	0.49
1:M:287:ILE:HG22	1:M:290:ARG:CZ	2.43	0.49
1:N:40:HIS:O	1:N:41:GLN:O	2.30	0.49
1:S:32:PRO:CG	1:S:55:GLY:O	2.55	0.49
1:S:34:ILE:HD13	1:S:67:LEU:CD1	2.41	0.49
1:T:43:VAL:O	1:T:44:MET:HG2	2.13	0.49
1:U:39:ARG:HG2	1:U:66:THR:HB	1.93	0.49
1:U:287:ILE:HG22	1:U:290:ARG:CZ	2.43	0.49
1:U:362:TYR:HE1	1:U:367:PRO:CB	2.19	0.49
1:A:40:HIS:O	1:A:41:GLN:O	2.30	0.49
1:C:142:LEU:HD21	1:C:165:ILE:CD1	2.39	0.49
1:D:34:ILE:CG2	1:D:35:VAL:N	2.74	0.49
1:E:37:ARG:CG	1:E:38:PRO:N	2.75	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:39:ARG:HG2	1:E:66:THR:HB	1.93	0.49
1:E:40:HIS:O	1:E:41:GLN:O	2.30	0.49
1:F:34:ILE:CG2	1:F:35:VAL:N	2.74	0.49
1:F:290:ARG:NH1	1:H:244:ASP:OD1	2.45	0.49
1:H:39:ARG:HG2	1:H:66:THR:HB	1.93	0.49
1:H:287:ILE:HG22	1:H:290:ARG:CZ	2.43	0.49
1:I:34:ILE:HG22	1:I:35:VAL:H	1.78	0.49
1:I:37:ARG:CG	1:I:38:PRO:N	2.75	0.49
1:I:147:ARG:CG	1:I:147:ARG:NH2	2.71	0.49
1:I:300:SER:HA	1:I:335:ARG:HG2	1.89	0.49
1:J:43:VAL:O	1:J:44:MET:HG2	2.13	0.49
1:K:34:ILE:HG22	1:K:35:VAL:H	1.78	0.49
1:O:2:GLU:HA	1:O:2:GLU:OE2	2.10	0.49
1:P:37:ARG:CG	1:P:38:PRO:N	2.75	0.49
1:P:40:HIS:O	1:P:41:GLN:O	2.30	0.49
1:P:147:ARG:CG	1:P:147:ARG:NH2	2.71	0.49
1:Q:290:ARG:NH1	1:S:244:ASP:OD1	2.45	0.49
1:R:34:ILE:HG22	1:R:35:VAL:H	1.78	0.49
1:R:40:HIS:O	1:R:41:GLN:O	2.30	0.49
1:R:290:ARG:NH1	1:T:244:ASP:OD1	2.45	0.49
1:U:43:VAL:O	1:U:44:MET:HG2	2.13	0.49
1:V:34:ILE:HD13	1:V:67:LEU:CD1	2.41	0.49
1:B:34:ILE:HG22	1:B:35:VAL:H	1.78	0.49
1:C:290:ARG:NH1	1:E:244:ASP:OD1	2.45	0.49
1:E:8:LEU:HB2	1:E:103:THR:HA	1.95	0.49
1:F:43:VAL:O	1:F:44:MET:HG2	2.13	0.49
1:H:336:LYS:HE2	2:H:401:ADP:C5'	2.38	0.49
1:I:287:ILE:HG13	1:I:288:ASP:N	2.27	0.49
1:J:287:ILE:HG13	1:J:288:ASP:N	2.27	0.49
1:K:37:ARG:CG	1:K:38:PRO:N	2.75	0.49
1:K:43:VAL:O	1:K:44:MET:HG2	2.13	0.49
1:L:300:SER:HA	1:L:335:ARG:HG2	1.89	0.49
1:M:39:ARG:HG2	1:M:66:THR:HB	1.93	0.49
1:M:147:ARG:CG	1:M:147:ARG:NH2	2.71	0.49
1:O:22:ALA:HB1	1:O:348:SER:CB	2.41	0.49
1:O:37:ARG:CG	1:O:38:PRO:N	2.75	0.49
1:P:43:VAL:O	1:P:44:MET:HG2	2.13	0.49
1:Q:298:VAL:HG12	1:Q:335:ARG:NH1	2.28	0.49
1:S:290:ARG:NH1	1:U:244:ASP:OD1	2.45	0.49
1:T:147:ARG:CG	1:T:147:ARG:NH2	2.71	0.49
1:U:34:ILE:HD13	1:U:67:LEU:CD1	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:43:VAL:O	1:W:44:MET:HG2	2.13	0.49
1:A:270:GLU:O	1:A:270:GLU:CD	2.51	0.49
1:B:290:ARG:NH1	1:D:244:ASP:OD1	2.45	0.49
1:B:299:MET:HE1	1:B:304:THR:HB	1.94	0.49
1:C:37:ARG:CG	1:C:38:PRO:N	2.75	0.49
1:C:40:HIS:O	1:C:41:GLN:O	2.30	0.49
1:D:34:ILE:HG22	1:D:35:VAL:H	1.78	0.49
1:E:43:VAL:O	1:E:44:MET:HG2	2.13	0.49
1:E:287:ILE:HG22	1:E:290:ARG:CZ	2.43	0.49
1:F:270:GLU:O	1:F:270:GLU:CD	2.51	0.49
1:F:369:ILE:C	1:F:371:HIS:H	2.15	0.49
1:H:142:LEU:HD21	1:H:165:ILE:CD1	2.39	0.49
1:H:298:VAL:HG12	1:H:335:ARG:NH1	2.28	0.49
1:H:361:GLU:HB3	1:H:369:ILE:CD1	2.14	0.49
1:M:43:VAL:O	1:M:44:MET:HG2	2.13	0.49
1:N:287:ILE:HG13	1:N:288:ASP:N	2.27	0.49
1:O:287:ILE:HG13	1:O:288:ASP:N	2.27	0.49
1:O:369:ILE:C	1:O:371:HIS:H	2.15	0.49
1:Q:8:LEU:HB2	1:Q:103:THR:HA	1.95	0.49
1:Q:39:ARG:HG2	1:Q:66:THR:HB	1.93	0.49
1:T:34:ILE:HG22	1:T:35:VAL:H	1.78	0.49
1:T:37:ARG:CG	1:T:38:PRO:N	2.75	0.49
1:U:34:ILE:CG2	1:U:35:VAL:N	2.74	0.49
1:W:34:ILE:HD13	1:W:67:LEU:CD1	2.41	0.49
1:W:44:MET:CG	1:W:45:VAL:N	2.75	0.49
1:A:54:VAL:CG1	1:A:55:GLY:N	2.72	0.49
1:A:369:ILE:C	1:A:371:HIS:H	2.15	0.49
1:B:43:VAL:O	1:B:44:MET:HG2	2.13	0.49
1:D:8:LEU:HB2	1:D:103:THR:HA	1.95	0.49
1:F:8:LEU:HB2	1:F:103:THR:HA	1.95	0.49
1:F:298:VAL:HG12	1:F:335:ARG:NH1	2.28	0.49
1:G:8:LEU:HB2	1:G:103:THR:HA	1.95	0.49
1:H:44:MET:CG	1:H:45:VAL:N	2.75	0.49
1:I:34:ILE:HD13	1:I:67:LEU:CD1	2.41	0.49
1:J:287:ILE:HG22	1:J:290:ARG:CZ	2.43	0.49
1:L:270:GLU:O	1:L:270:GLU:CD	2.51	0.49
1:O:270:GLU:O	1:O:270:GLU:CD	2.51	0.49
1:O:298:VAL:HG12	1:O:335:ARG:NH1	2.28	0.49
1:P:287:ILE:HG22	1:P:290:ARG:CZ	2.43	0.49
1:Q:43:VAL:O	1:Q:44:MET:HG2	2.13	0.49
1:U:270:GLU:O	1:U:270:GLU:CD	2.51	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:287:ILE:HG13	1:U:288:ASP:N	2.27	0.49
1:U:290:ARG:NH1	1:W:244:ASP:OD1	2.45	0.49
1:V:369:ILE:C	1:V:371:HIS:H	2.15	0.49
1:A:43:VAL:O	1:A:44:MET:HG2	2.13	0.49
1:A:287:ILE:HG22	1:A:290:ARG:CZ	2.43	0.49
1:B:58:ALA:HA	1:B:65:LEU:CD2	2.43	0.49
1:B:173:HIS:NE2	1:C:267:ILE:C	2.67	0.49
1:D:43:VAL:O	1:D:44:MET:HG2	2.13	0.49
1:G:2:GLU:OE2	1:G:2:GLU:HA	2.10	0.49
1:G:35:VAL:CA	1:G:54:VAL:CG2	2.90	0.49
1:H:34:ILE:HD13	1:H:67:LEU:CD1	2.41	0.49
1:H:35:VAL:CA	1:H:54:VAL:CG2	2.90	0.49
1:H:287:ILE:HG13	1:H:288:ASP:N	2.27	0.49
1:I:22:ALA:HB1	1:I:348:SER:CB	2.41	0.49
1:I:58:ALA:HA	1:I:65:LEU:CD2	2.43	0.49
1:J:180:LEU:HD12	1:J:181:ALA:O	2.13	0.49
1:K:2:GLU:OE2	1:K:2:GLU:HA	2.11	0.49
1:K:335:ARG:O	1:K:338:SER:HB3	2.13	0.49
1:L:35:VAL:CA	1:L:54:VAL:CG2	2.90	0.49
1:O:8:LEU:HB2	1:O:103:THR:HA	1.95	0.49
1:Q:270:GLU:O	1:Q:270:GLU:CD	2.52	0.49
1:R:270:GLU:O	1:R:270:GLU:CD	2.52	0.49
1:S:298:VAL:HG12	1:S:335:ARG:NH1	2.28	0.49
1:U:180:LEU:HD12	1:U:181:ALA:O	2.13	0.49
1:U:369:ILE:C	1:U:371:HIS:H	2.15	0.49
1:B:369:ILE:C	1:B:371:HIS:H	2.15	0.48
1:C:8:LEU:HB2	1:C:103:THR:HA	1.95	0.48
1:C:270:GLU:O	1:C:270:GLU:CD	2.51	0.48
1:D:58:ALA:HA	1:D:65:LEU:CD2	2.43	0.48
1:F:335:ARG:O	1:F:338:SER:HB3	2.13	0.48
1:G:173:HIS:NE2	1:H:267:ILE:C	2.67	0.48
1:H:335:ARG:O	1:H:338:SER:HB3	2.13	0.48
1:I:335:ARG:O	1:I:338:SER:HB3	2.13	0.48
1:J:35:VAL:CA	1:J:54:VAL:CG2	2.90	0.48
1:J:290:ARG:NH1	1:L:244:ASP:OD1	2.45	0.48
1:J:298:VAL:HG12	1:J:335:ARG:NH1	2.28	0.48
1:M:335:ARG:O	1:M:338:SER:HB3	2.13	0.48
1:O:44:MET:CG	1:O:45:VAL:N	2.75	0.48
1:O:335:ARG:O	1:O:338:SER:HB3	2.13	0.48
1:P:34:ILE:HG22	1:P:35:VAL:H	1.78	0.48
1:P:270:GLU:O	1:P:270:GLU:CD	2.52	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:287:ILE:HG13	1:P:288:ASP:N	2.27	0.48
1:Q:287:ILE:HG13	1:Q:288:ASP:N	2.27	0.48
1:Q:335:ARG:O	1:Q:338:SER:HB3	2.13	0.48
1:Q:369:ILE:C	1:Q:371:HIS:H	2.15	0.48
1:R:287:ILE:HG22	1:R:290:ARG:CZ	2.43	0.48
1:S:8:LEU:HB2	1:S:103:THR:HA	1.95	0.48
1:S:369:ILE:C	1:S:371:HIS:H	2.15	0.48
1:V:180:LEU:HD12	1:V:181:ALA:O	2.13	0.48
1:B:180:LEU:HD12	1:B:181:ALA:O	2.13	0.48
1:C:22:ALA:HB1	1:C:348:SER:CB	2.41	0.48
1:D:35:VAL:CA	1:D:54:VAL:CG2	2.90	0.48
1:D:270:GLU:O	1:D:270:GLU:CD	2.52	0.48
1:D:287:ILE:HG22	1:D:290:ARG:CZ	2.43	0.48
1:D:335:ARG:O	1:D:338:SER:HB3	2.13	0.48
1:E:180:LEU:HD12	1:E:181:ALA:O	2.13	0.48
1:G:34:ILE:HG22	1:G:35:VAL:H	1.78	0.48
1:G:43:VAL:O	1:G:44:MET:HG2	2.13	0.48
1:H:8:LEU:HB2	1:H:103:THR:HA	1.95	0.48
1:J:227:MET:HA	1:J:227:MET:HE3	1.94	0.48
1:J:270:GLU:O	1:J:270:GLU:CD	2.51	0.48
1:K:58:ALA:HA	1:K:65:LEU:CD2	2.43	0.48
1:K:287:ILE:HG22	1:K:290:ARG:CZ	2.43	0.48
1:M:173:HIS:NE2	1:N:267:ILE:C	2.67	0.48
1:O:173:HIS:NE2	1:P:267:ILE:C	2.67	0.48
1:R:8:LEU:HB2	1:R:103:THR:HA	1.95	0.48
1:R:22:ALA:HB1	1:R:348:SER:CB	2.41	0.48
1:S:173:HIS:NE2	1:T:267:ILE:C	2.67	0.48
1:S:335:ARG:O	1:S:338:SER:HB3	2.13	0.48
1:T:287:ILE:HG13	1:T:288:ASP:N	2.27	0.48
1:U:35:VAL:CA	1:U:54:VAL:CG2	2.90	0.48
1:U:58:ALA:HA	1:U:65:LEU:CD2	2.43	0.48
1:W:270:GLU:O	1:W:270:GLU:CD	2.52	0.48
1:W:369:ILE:C	1:W:371:HIS:H	2.15	0.48
1:B:58:ALA:CB	1:B:65:LEU:CD2	2.90	0.48
1:B:270:GLU:O	1:B:270:GLU:CD	2.52	0.48
1:C:287:ILE:HG22	1:C:290:ARG:CZ	2.43	0.48
1:G:58:ALA:HA	1:G:65:LEU:CD2	2.43	0.48
1:G:270:GLU:O	1:G:270:GLU:CD	2.52	0.48
1:H:43:VAL:O	1:H:44:MET:HG2	2.13	0.48
1:K:173:HIS:NE2	1:L:267:ILE:C	2.67	0.48
1:K:180:LEU:HD12	1:K:181:ALA:O	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:58:ALA:CB	1:M:65:LEU:CD2	2.90	0.48
1:N:43:VAL:O	1:N:44:MET:HG2	2.13	0.48
1:P:8:LEU:HB2	1:P:103:THR:HA	1.95	0.48
1:P:180:LEU:HD12	1:P:181:ALA:O	2.14	0.48
1:P:299:MET:HE1	1:P:304:THR:HB	1.96	0.48
1:Q:173:HIS:NE2	1:R:267:ILE:C	2.67	0.48
1:R:34:ILE:HG22	1:R:54:VAL:HG21	1.96	0.48
1:R:173:HIS:NE2	1:S:267:ILE:C	2.67	0.48
1:S:58:ALA:HA	1:S:65:LEU:CD2	2.44	0.48
1:T:287:ILE:HG22	1:T:290:ARG:CZ	2.43	0.48
1:V:2:GLU:OE2	1:V:2:GLU:HA	2.10	0.48
1:V:173:HIS:NE2	1:W:267:ILE:C	2.67	0.48
1:V:335:ARG:O	1:V:338:SER:HB3	2.13	0.48
1:W:35:VAL:CA	1:W:54:VAL:CG2	2.90	0.48
1:W:287:ILE:HG22	1:W:290:ARG:CZ	2.43	0.48
1:A:8:LEU:HB2	1:A:103:THR:HA	1.95	0.48
1:B:8:LEU:HB2	1:B:103:THR:HA	1.95	0.48
1:B:35:VAL:CA	1:B:54:VAL:CG2	2.90	0.48
1:B:335:ARG:O	1:B:338:SER:HB3	2.14	0.48
1:C:2:GLU:OE2	1:C:2:GLU:HA	2.10	0.48
1:D:173:HIS:NE2	1:E:267:ILE:C	2.67	0.48
1:D:180:LEU:HD12	1:D:181:ALA:O	2.13	0.48
1:F:35:VAL:CA	1:F:54:VAL:CG2	2.90	0.48
1:G:180:LEU:HD12	1:G:181:ALA:O	2.13	0.48
1:I:8:LEU:HB2	1:I:103:THR:HA	1.95	0.48
1:I:173:HIS:NE2	1:J:267:ILE:C	2.67	0.48
1:I:270:GLU:O	1:I:270:GLU:CD	2.51	0.48
1:J:8:LEU:HB2	1:J:103:THR:HA	1.95	0.48
1:J:34:ILE:HD13	1:J:67:LEU:CD1	2.41	0.48
1:K:287:ILE:HG13	1:K:288:ASP:N	2.27	0.48
1:L:8:LEU:HB2	1:L:103:THR:HA	1.95	0.48
1:L:43:VAL:O	1:L:44:MET:HG2	2.13	0.48
1:N:8:LEU:HB2	1:N:103:THR:HA	1.95	0.48
1:N:37:ARG:CG	1:N:38:PRO:N	2.75	0.48
1:N:287:ILE:HG22	1:N:290:ARG:CZ	2.43	0.48
1:N:299:MET:HE1	1:N:304:THR:HB	1.96	0.48
1:P:34:ILE:HG22	1:P:54:VAL:HG21	1.96	0.48
1:Q:287:ILE:HG22	1:Q:290:ARG:CZ	2.43	0.48
1:T:335:ARG:O	1:T:338:SER:HB3	2.13	0.48
1:U:8:LEU:HB2	1:U:103:THR:HA	1.95	0.48
1:U:335:ARG:O	1:U:338:SER:HB3	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:PHE:CD1	1:A:259:GLU:CG	2.96	0.48
1:A:298:VAL:HG12	1:A:335:ARG:NH1	2.28	0.48
1:C:43:VAL:O	1:C:44:MET:HG2	2.13	0.48
1:G:300:SER:HA	1:G:335:ARG:HG2	1.89	0.48
1:H:173:HIS:NE2	1:I:267:ILE:C	2.67	0.48
1:H:270:GLU:O	1:H:270:GLU:CD	2.52	0.48
1:J:335:ARG:O	1:J:338:SER:HB3	2.14	0.48
1:M:8:LEU:HB2	1:M:103:THR:HA	1.95	0.48
1:N:270:GLU:O	1:N:270:GLU:CD	2.52	0.48
1:Q:58:ALA:CB	1:Q:65:LEU:CD2	2.90	0.48
1:Q:58:ALA:HA	1:Q:65:LEU:CD2	2.43	0.48
1:R:2:GLU:HA	1:R:2:GLU:OE2	2.10	0.48
1:R:43:VAL:O	1:R:44:MET:HG2	2.13	0.48
1:R:180:LEU:HD12	1:R:181:ALA:O	2.13	0.48
1:S:287:ILE:HG13	1:S:288:ASP:N	2.27	0.48
1:T:8:LEU:HB2	1:T:103:THR:HA	1.95	0.48
1:T:173:HIS:NE2	1:U:267:ILE:C	2.67	0.48
1:V:43:VAL:O	1:V:44:MET:HG2	2.13	0.48
1:V:298:VAL:HG12	1:V:335:ARG:NH1	2.28	0.48
1:W:34:ILE:HG22	1:W:35:VAL:H	1.78	0.48
1:A:180:LEU:HD12	1:A:181:ALA:O	2.13	0.48
1:D:369:ILE:C	1:D:371:HIS:H	2.15	0.48
1:E:34:ILE:HG23	1:E:68:LYS:H	1.79	0.48
1:E:298:VAL:HG12	1:E:335:ARG:NH1	2.28	0.48
1:F:58:ALA:HA	1:F:65:LEU:CD2	2.43	0.48
1:F:173:HIS:NE2	1:G:267:ILE:C	2.67	0.48
1:F:287:ILE:HG13	1:F:288:ASP:N	2.27	0.48
1:K:147:ARG:CG	1:K:147:ARG:NH2	2.71	0.48
1:L:34:ILE:HD13	1:L:67:LEU:CD1	2.41	0.48
1:L:34:ILE:HG23	1:L:68:LYS:H	1.79	0.48
1:L:298:VAL:HG12	1:L:335:ARG:NH1	2.28	0.48
1:M:142:LEU:HD21	1:M:165:ILE:CD1	2.38	0.48
1:M:236:LEU:HD22	1:M:251:GLY:C	2.34	0.48
1:M:287:ILE:HG13	1:M:288:ASP:N	2.27	0.48
1:M:298:VAL:HG12	1:M:335:ARG:NH1	2.28	0.48
1:N:34:ILE:HG22	1:N:54:VAL:HG21	1.96	0.48
1:N:34:ILE:HG23	1:N:68:LYS:H	1.79	0.48
1:Q:34:ILE:HG23	1:Q:68:LYS:H	1.79	0.48
1:Q:361:GLU:HB3	1:Q:369:ILE:CD1	2.14	0.48
1:T:34:ILE:HG22	1:T:54:VAL:HG21	1.96	0.48
1:U:223:PHE:CD1	1:U:259:GLU:CG	2.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:58:ALA:HA	1:V:65:LEU:CD2	2.44	0.48
1:V:223:PHE:CD1	1:V:259:GLU:CG	2.96	0.48
1:V:287:ILE:HG13	1:V:288:ASP:N	2.27	0.48
1:W:8:LEU:HB2	1:W:103:THR:HA	1.95	0.48
1:W:58:ALA:HA	1:W:65:LEU:CD2	2.43	0.48
1:W:223:PHE:CD1	1:W:259:GLU:CG	2.96	0.48
1:C:298:VAL:HG12	1:C:335:ARG:NH1	2.28	0.48
1:D:236:LEU:HD22	1:D:251:GLY:C	2.34	0.48
1:E:34:ILE:HD13	1:E:67:LEU:CD1	2.41	0.48
1:E:58:ALA:HA	1:E:65:LEU:CD2	2.43	0.48
1:F:180:LEU:HD12	1:F:181:ALA:O	2.13	0.48
1:F:236:LEU:HD22	1:F:251:GLY:C	2.34	0.48
1:G:287:ILE:HG22	1:G:290:ARG:CZ	2.43	0.48
1:H:180:LEU:HD12	1:H:181:ALA:O	2.13	0.48
1:I:298:VAL:HG12	1:I:335:ARG:NH1	2.28	0.48
1:J:236:LEU:HD22	1:J:251:GLY:C	2.34	0.48
1:K:270:GLU:O	1:K:270:GLU:CD	2.51	0.48
1:M:270:GLU:O	1:M:270:GLU:CD	2.52	0.48
1:N:58:ALA:HA	1:N:65:LEU:CD2	2.43	0.48
1:N:227:MET:HE3	1:N:227:MET:HA	1.95	0.48
1:O:34:ILE:HG23	1:O:68:LYS:H	1.79	0.48
1:O:58:ALA:CB	1:O:65:LEU:CD2	2.90	0.48
1:O:180:LEU:HD12	1:O:181:ALA:O	2.13	0.48
1:P:34:ILE:HG23	1:P:68:LYS:H	1.79	0.48
1:Q:223:PHE:CD1	1:Q:259:GLU:CG	2.96	0.48
1:S:223:PHE:CD1	1:S:259:GLU:CG	2.96	0.48
1:T:34:ILE:HD13	1:T:67:LEU:CD1	2.41	0.48
1:U:298:VAL:HG12	1:U:335:ARG:NH1	2.28	0.48
1:A:34:ILE:HG22	1:A:54:VAL:HG21	1.96	0.48
1:A:335:ARG:O	1:A:338:SER:HB3	2.13	0.48
1:B:287:ILE:HG13	1:B:288:ASP:N	2.27	0.48
1:D:58:ALA:CB	1:D:65:LEU:CD2	2.90	0.48
1:E:270:GLU:CD	1:E:270:GLU:O	2.51	0.48
1:F:34:ILE:HG23	1:F:68:LYS:H	1.79	0.48
1:F:39:ARG:NE	1:F:66:THR:CA	2.69	0.48
1:G:298:VAL:HG12	1:G:335:ARG:NH1	2.28	0.48
1:G:335:ARG:O	1:G:338:SER:HB3	2.14	0.48
1:G:361:GLU:HB3	1:G:369:ILE:CD1	2.14	0.48
1:H:236:LEU:HD22	1:H:251:GLY:C	2.34	0.48
1:I:8:LEU:O	1:I:104:LEU:N	2.47	0.48
1:K:58:ALA:CB	1:K:65:LEU:CD2	2.90	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:58:ALA:HA	1:M:65:LEU:CD2	2.43	0.48
1:O:223:PHE:CD1	1:O:259:GLU:CG	2.96	0.48
1:P:58:ALA:HA	1:P:65:LEU:CD2	2.43	0.48
1:Q:180:LEU:HD12	1:Q:181:ALA:O	2.14	0.48
1:R:58:ALA:HA	1:R:65:LEU:CD2	2.43	0.48
1:T:58:ALA:HA	1:T:65:LEU:CD2	2.43	0.48
1:T:223:PHE:CD1	1:T:259:GLU:CG	2.96	0.48
1:T:270:GLU:O	1:T:270:GLU:CD	2.51	0.48
1:V:270:GLU:O	1:V:270:GLU:CD	2.52	0.48
1:W:34:ILE:HG22	1:W:54:VAL:HG21	1.96	0.48
1:C:223:PHE:CD1	1:C:259:GLU:CG	2.96	0.48
1:D:287:ILE:HG13	1:D:288:ASP:N	2.27	0.48
1:E:173:HIS:NE2	1:F:267:ILE:C	2.67	0.48
1:E:369:ILE:HG22	1:E:370:VAL:N	2.29	0.48
1:F:288:ASP:OD2	1:H:204:ALA:HB1	2.14	0.48
1:G:34:ILE:HD13	1:G:67:LEU:CD1	2.41	0.48
1:G:34:ILE:HG23	1:G:68:LYS:H	1.79	0.48
1:K:369:ILE:HG22	1:K:370:VAL:N	2.29	0.48
1:L:180:LEU:HD12	1:L:181:ALA:O	2.13	0.48
1:L:236:LEU:HD22	1:L:251:GLY:C	2.34	0.48
1:N:34:ILE:HG22	1:N:35:VAL:H	1.78	0.48
1:N:58:ALA:O	1:N:59:GLN:C	2.53	0.48
1:N:369:ILE:HG22	1:N:370:VAL:N	2.29	0.48
1:P:173:HIS:NE2	1:Q:267:ILE:C	2.67	0.48
1:P:335:ARG:O	1:P:338:SER:HB3	2.13	0.48
1:S:43:VAL:O	1:S:44:MET:HG2	2.13	0.48
1:S:270:GLU:O	1:S:270:GLU:CD	2.52	0.48
1:T:8:LEU:O	1:T:104:LEU:N	2.47	0.48
1:T:142:LEU:HD21	1:T:165:ILE:CD1	2.39	0.48
1:V:369:ILE:HG22	1:V:370:VAL:N	2.29	0.48
1:W:180:LEU:HD12	1:W:181:ALA:O	2.13	0.48
1:A:142:LEU:HD21	1:A:165:ILE:CD1	2.38	0.48
1:A:173:HIS:NE2	1:B:267:ILE:C	2.67	0.48
1:B:288:ASP:OD2	1:D:204:ALA:HB1	2.14	0.48
1:B:298:VAL:HG12	1:B:335:ARG:NH1	2.28	0.48
1:C:34:ILE:HG23	1:C:68:LYS:H	1.79	0.48
1:C:44:MET:CG	1:C:45:VAL:N	2.75	0.48
1:C:58:ALA:HA	1:C:65:LEU:CD2	2.43	0.48
1:G:369:ILE:HG22	1:G:370:VAL:N	2.29	0.48
1:J:58:ALA:O	1:J:59:GLN:C	2.53	0.48
1:J:173:HIS:NE2	1:K:267:ILE:C	2.67	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:288:ASP:OD2	1:L:204:ALA:HB1	2.14	0.48
1:L:34:ILE:HG22	1:L:54:VAL:HG21	1.96	0.48
1:L:58:ALA:HA	1:L:65:LEU:CD2	2.43	0.48
1:M:223:PHE:CD1	1:M:259:GLU:CG	2.96	0.48
1:N:180:LEU:HD12	1:N:181:ALA:O	2.13	0.48
1:P:34:ILE:HD13	1:P:67:LEU:CD1	2.41	0.48
1:Q:288:ASP:OD2	1:S:204:ALA:HB1	2.14	0.48
1:S:34:ILE:HG23	1:S:68:LYS:H	1.79	0.48
1:S:180:LEU:HD12	1:S:181:ALA:O	2.13	0.48
1:T:369:ILE:HG22	1:T:370:VAL:N	2.29	0.48
1:U:173:HIS:NE2	1:V:267:ILE:C	2.67	0.48
1:U:288:ASP:OD2	1:W:204:ALA:HB1	2.14	0.48
1:V:8:LEU:O	1:V:104:LEU:N	2.47	0.48
1:V:227:MET:HA	1:V:227:MET:HE3	1.96	0.48
1:V:335:ARG:HA	1:V:335:ARG:HD3	1.39	0.48
1:W:34:ILE:HG23	1:W:68:LYS:H	1.79	0.48
1:W:335:ARG:O	1:W:338:SER:HB3	2.14	0.48
1:W:369:ILE:HG22	1:W:370:VAL:N	2.29	0.48
1:A:31:PHE:HA	1:A:32:PRO:HD3	1.66	0.47
1:A:58:ALA:HA	1:A:65:LEU:CD2	2.43	0.47
1:C:58:ALA:O	1:C:59:GLN:C	2.53	0.47
1:C:227:MET:HA	1:C:227:MET:HE3	1.96	0.47
1:D:288:ASP:OD2	1:F:204:ALA:HB1	2.14	0.47
1:E:8:LEU:O	1:E:104:LEU:N	2.47	0.47
1:E:44:MET:CG	1:E:45:VAL:N	2.76	0.47
1:H:34:ILE:HG23	1:H:68:LYS:H	1.79	0.47
1:H:58:ALA:HA	1:H:65:LEU:CD2	2.43	0.47
1:I:44:MET:CG	1:I:45:VAL:N	2.75	0.47
1:I:180:LEU:HD12	1:I:181:ALA:O	2.13	0.47
1:K:31:PHE:HA	1:K:32:PRO:HD3	1.66	0.47
1:K:180:LEU:O	1:K:180:LEU:HG	2.11	0.47
1:K:223:PHE:CD1	1:K:259:GLU:CG	2.96	0.47
1:M:34:ILE:HG23	1:M:68:LYS:H	1.79	0.47
1:N:2:GLU:OE2	1:N:2:GLU:HA	2.10	0.47
1:N:288:ASP:OD2	1:P:204:ALA:HB1	2.14	0.47
1:N:335:ARG:O	1:N:338:SER:HB3	2.14	0.47
1:O:58:ALA:HA	1:O:65:LEU:CD2	2.43	0.47
1:O:236:LEU:HD22	1:O:251:GLY:C	2.34	0.47
1:P:288:ASP:OD2	1:R:204:ALA:HB1	2.14	0.47
1:Q:58:ALA:O	1:Q:59:GLN:C	2.53	0.47
1:R:335:ARG:O	1:R:338:SER:HB3	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:34:ILE:HG22	1:U:35:VAL:H	1.78	0.47
1:U:58:ALA:O	1:U:59:GLN:C	2.53	0.47
1:U:227:MET:HA	1:U:227:MET:HE3	1.95	0.47
1:V:147:ARG:CG	1:V:147:ARG:NH2	2.71	0.47
1:W:298:VAL:HG12	1:W:335:ARG:NH1	2.28	0.47
1:A:34:ILE:HD13	1:A:67:LEU:CD1	2.41	0.47
1:C:34:ILE:HG22	1:C:54:VAL:HG21	1.96	0.47
1:C:173:HIS:NE2	1:D:267:ILE:C	2.67	0.47
1:C:236:LEU:HD22	1:C:251:GLY:C	2.34	0.47
1:D:34:ILE:HG23	1:D:68:LYS:H	1.79	0.47
1:F:58:ALA:O	1:F:59:GLN:C	2.53	0.47
1:H:369:ILE:HG22	1:H:370:VAL:N	2.29	0.47
1:I:223:PHE:CD1	1:I:259:GLU:CG	2.96	0.47
1:J:58:ALA:HA	1:J:65:LEU:CD2	2.43	0.47
1:K:8:LEU:O	1:K:104:LEU:N	2.47	0.47
1:K:288:ASP:OD2	1:M:204:ALA:HB1	2.14	0.47
1:L:335:ARG:O	1:L:338:SER:HB3	2.13	0.47
1:M:180:LEU:HD12	1:M:181:ALA:O	2.13	0.47
1:N:173:HIS:NE2	1:O:267:ILE:C	2.67	0.47
1:O:58:ALA:O	1:O:59:GLN:C	2.53	0.47
1:O:335:ARG:HA	1:O:335:ARG:HD3	1.39	0.47
1:P:227:MET:HA	1:P:227:MET:HE3	1.96	0.47
1:R:288:ASP:OD2	1:T:204:ALA:HB1	2.14	0.47
1:S:35:VAL:CA	1:S:54:VAL:CG2	2.90	0.47
1:T:180:LEU:HD12	1:T:181:ALA:O	2.14	0.47
1:T:298:VAL:HG12	1:T:335:ARG:NH1	2.28	0.47
1:U:34:ILE:HG22	1:U:54:VAL:HG21	1.96	0.47
1:V:34:ILE:HG23	1:V:68:LYS:H	1.79	0.47
1:V:58:ALA:CB	1:V:65:LEU:CD2	2.90	0.47
1:W:39:ARG:NE	1:W:66:THR:CA	2.69	0.47
1:A:44:MET:CG	1:A:45:VAL:N	2.75	0.47
1:A:236:LEU:HD11	1:A:237:GLU:HG2	1.96	0.47
1:A:288:ASP:OD2	1:C:204:ALA:HB1	2.14	0.47
1:B:58:ALA:O	1:B:59:GLN:C	2.53	0.47
1:B:236:LEU:HD22	1:B:251:GLY:C	2.34	0.47
1:C:180:LEU:HD12	1:C:181:ALA:O	2.13	0.47
1:C:236:LEU:HD11	1:C:237:GLU:HG2	1.96	0.47
1:E:34:ILE:HG22	1:E:35:VAL:H	1.78	0.47
1:E:223:PHE:CD1	1:E:259:GLU:CG	2.96	0.47
1:E:236:LEU:HD22	1:E:251:GLY:C	2.34	0.47
1:F:142:LEU:HD21	1:F:165:ILE:CD1	2.38	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:143:TYR:CZ	1:H:345:ILE:CG2	2.98	0.47
1:J:44:MET:CG	1:J:45:VAL:N	2.75	0.47
1:J:336:LYS:HE2	2:J:401:ADP:C5'	2.38	0.47
1:N:236:LEU:HD22	1:N:251:GLY:C	2.34	0.47
1:N:298:VAL:HG12	1:N:335:ARG:NH1	2.28	0.47
1:P:143:TYR:CZ	1:P:345:ILE:CG2	2.98	0.47
1:P:369:ILE:HG22	1:P:370:VAL:N	2.29	0.47
1:R:34:ILE:HD13	1:R:67:LEU:CD1	2.41	0.47
1:R:34:ILE:HG23	1:R:68:LYS:H	1.79	0.47
1:R:58:ALA:O	1:R:59:GLN:C	2.53	0.47
1:T:236:LEU:HD22	1:T:251:GLY:C	2.34	0.47
1:U:34:ILE:HG23	1:U:68:LYS:H	1.79	0.47
1:V:8:LEU:HB2	1:V:103:THR:HA	1.95	0.47
1:V:34:ILE:HG22	1:V:54:VAL:HG21	1.96	0.47
1:W:143:TYR:CZ	1:W:345:ILE:CG2	2.98	0.47
1:W:236:LEU:HD22	1:W:251:GLY:C	2.34	0.47
1:A:35:VAL:CA	1:A:54:VAL:CG2	2.90	0.47
1:A:143:TYR:CZ	1:A:345:ILE:CG2	2.98	0.47
1:A:236:LEU:HD22	1:A:251:GLY:C	2.34	0.47
1:D:58:ALA:O	1:D:59:GLN:C	2.53	0.47
1:G:223:PHE:CD1	1:G:259:GLU:CG	2.96	0.47
1:I:34:ILE:HG23	1:I:68:LYS:H	1.79	0.47
1:I:288:ASP:OD2	1:K:204:ALA:HB1	2.14	0.47
1:J:300:SER:HA	1:J:335:ARG:HG2	1.89	0.47
1:J:369:ILE:HG22	1:J:370:VAL:N	2.29	0.47
1:K:8:LEU:HB2	1:K:103:THR:HA	1.95	0.47
1:K:58:ALA:O	1:K:59:GLN:C	2.53	0.47
1:K:236:LEU:HD22	1:K:251:GLY:C	2.34	0.47
1:K:298:VAL:HG12	1:K:335:ARG:NH1	2.28	0.47
1:M:58:ALA:O	1:M:59:GLN:C	2.53	0.47
1:M:288:ASP:OD2	1:O:204:ALA:HB1	2.14	0.47
1:R:34:ILE:CG2	1:R:67:LEU:HD22	2.28	0.47
1:R:236:LEU:HD22	1:R:251:GLY:C	2.34	0.47
1:S:34:ILE:HG22	1:S:35:VAL:H	1.78	0.47
1:T:227:MET:HA	1:T:227:MET:HE3	1.96	0.47
1:A:369:ILE:HG22	1:A:370:VAL:N	2.29	0.47
1:B:61:LYS:HG2	1:B:64:ILE:CG2	2.44	0.47
1:B:369:ILE:HG22	1:B:370:VAL:N	2.29	0.47
1:C:288:ASP:OD2	1:E:204:ALA:HB1	2.14	0.47
1:C:299:MET:HE1	1:C:304:THR:HB	1.97	0.47
1:C:335:ARG:O	1:C:338:SER:HB3	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:300:SER:HA	1:E:335:ARG:HG2	1.89	0.47
1:F:288:ASP:OD1	1:H:208:ILE:HD12	2.15	0.47
1:G:58:ALA:O	1:G:59:GLN:C	2.53	0.47
1:H:236:LEU:HD11	1:H:237:GLU:HG2	1.96	0.47
1:H:288:ASP:OD1	1:J:208:ILE:HD12	2.15	0.47
1:J:2:GLU:HA	1:J:2:GLU:OE2	2.10	0.47
1:J:143:TYR:CZ	1:J:345:ILE:CG2	2.98	0.47
1:L:369:ILE:HG22	1:L:370:VAL:N	2.29	0.47
1:M:369:ILE:HG22	1:M:370:VAL:N	2.29	0.47
1:O:43:VAL:O	1:O:44:MET:HG2	2.13	0.47
1:R:143:TYR:CZ	1:R:345:ILE:CG2	2.98	0.47
1:R:287:ILE:HD12	1:T:208:ILE:HD13	1.96	0.47
1:T:169:TYR:CD1	1:V:42:GLY:HA3	2.50	0.47
1:U:143:TYR:CZ	1:U:345:ILE:CG2	2.98	0.47
1:U:236:LEU:HD22	1:U:251:GLY:C	2.34	0.47
1:V:236:LEU:HD22	1:V:251:GLY:C	2.34	0.47
1:A:37:ARG:O	1:A:66:THR:CG2	2.63	0.47
1:A:299:MET:HE1	1:A:304:THR:HB	1.97	0.47
1:B:34:ILE:HG22	1:B:54:VAL:HG21	1.95	0.47
1:C:8:LEU:O	1:C:104:LEU:N	2.47	0.47
1:C:369:ILE:HG22	1:C:370:VAL:N	2.29	0.47
1:E:288:ASP:OD1	1:G:208:ILE:HD12	2.15	0.47
1:J:14:SER:HB2	1:J:183:ARG:HH22	1.80	0.47
1:K:288:ASP:OD1	1:M:208:ILE:HD12	2.15	0.47
1:N:143:TYR:CZ	1:N:345:ILE:CG2	2.98	0.47
1:O:8:LEU:O	1:O:104:LEU:N	2.47	0.47
1:P:58:ALA:O	1:P:59:GLN:C	2.53	0.47
1:Q:236:LEU:HD22	1:Q:251:GLY:C	2.34	0.47
1:Q:288:ASP:OD1	1:S:208:ILE:HD12	2.15	0.47
1:R:169:TYR:CD1	1:T:42:GLY:HA3	2.50	0.47
1:S:14:SER:HB2	1:S:183:ARG:HH22	1.80	0.47
1:S:143:TYR:CZ	1:S:345:ILE:CG2	2.98	0.47
1:U:14:SER:HB2	1:U:183:ARG:HH22	1.80	0.47
1:V:58:ALA:O	1:V:59:GLN:C	2.53	0.47
1:A:336:LYS:HE2	2:A:401:ADP:C5'	2.38	0.47
1:B:14:SER:HB2	1:B:183:ARG:HH22	1.80	0.47
1:B:134:VAL:O	1:B:375:PHE:OXT	2.33	0.47
1:B:288:ASP:OD1	1:D:208:ILE:HD12	2.15	0.47
1:C:180:LEU:O	1:C:180:LEU:HG	2.11	0.47
1:C:288:ASP:OD1	1:E:208:ILE:HD12	2.15	0.47
1:C:369:ILE:HG23	1:C:370:VAL:N	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:134:VAL:O	1:D:375:PHE:OXT	2.33	0.47
1:E:14:SER:HB2	1:E:183:ARG:HH22	1.80	0.47
1:E:34:ILE:HG22	1:E:54:VAL:HG21	1.96	0.47
1:E:335:ARG:O	1:E:338:SER:HB3	2.13	0.47
1:F:134:VAL:O	1:F:375:PHE:OXT	2.33	0.47
1:F:143:TYR:CZ	1:F:345:ILE:CG2	2.98	0.47
1:F:369:ILE:HG22	1:F:370:VAL:N	2.29	0.47
1:G:44:MET:CG	1:G:45:VAL:N	2.75	0.47
1:G:61:LYS:HG2	1:G:64:ILE:CG2	2.45	0.47
1:G:236:LEU:HD22	1:G:251:GLY:C	2.34	0.47
1:G:288:ASP:OD1	1:I:208:ILE:HD12	2.15	0.47
1:H:14:SER:HB2	1:H:183:ARG:HH22	1.80	0.47
1:H:134:VAL:O	1:H:375:PHE:OXT	2.33	0.47
1:H:288:ASP:OD2	1:J:204:ALA:HB1	2.14	0.47
1:I:34:ILE:HG22	1:I:54:VAL:HG21	1.95	0.47
1:I:61:LYS:HG2	1:I:64:ILE:CG2	2.45	0.47
1:I:227:MET:HA	1:I:227:MET:HE3	1.97	0.47
1:J:31:PHE:HA	1:J:32:PRO:HD3	1.66	0.47
1:J:34:ILE:HG22	1:J:54:VAL:HG21	1.96	0.47
1:J:37:ARG:O	1:J:66:THR:CG2	2.63	0.47
1:J:134:VAL:O	1:J:375:PHE:OXT	2.33	0.47
1:J:147:ARG:HH21	1:J:147:ARG:HG3	1.80	0.47
1:K:34:ILE:HG23	1:K:68:LYS:H	1.79	0.47
1:K:299:MET:HE1	1:K:304:THR:HB	1.97	0.47
1:L:14:SER:HB2	1:L:183:ARG:HH22	1.80	0.47
1:L:134:VAL:O	1:L:375:PHE:OXT	2.33	0.47
1:L:143:TYR:CZ	1:L:345:ILE:CG2	2.98	0.47
1:L:173:HIS:NE2	1:M:267:ILE:C	2.67	0.47
1:L:299:MET:HE1	1:L:304:THR:HB	1.97	0.47
1:M:34:ILE:HG22	1:M:54:VAL:HG21	1.95	0.47
1:M:288:ASP:OD1	1:O:208:ILE:HD12	2.15	0.47
1:N:34:ILE:CG2	1:N:67:LEU:HD22	2.27	0.47
1:O:34:ILE:HG22	1:O:54:VAL:HG21	1.96	0.47
1:P:8:LEU:O	1:P:104:LEU:N	2.47	0.47
1:P:44:MET:CG	1:P:45:VAL:N	2.76	0.47
1:P:169:TYR:CD1	1:R:42:GLY:HA3	2.50	0.47
1:Q:14:SER:HB2	1:Q:183:ARG:HH22	1.80	0.47
1:Q:134:VAL:O	1:Q:375:PHE:OXT	2.33	0.47
1:Q:369:ILE:HG22	1:Q:370:VAL:N	2.29	0.47
1:R:37:ARG:O	1:R:66:THR:CG2	2.63	0.47
1:R:44:MET:CG	1:R:45:VAL:N	2.75	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:369:ILE:HG23	1:R:370:VAL:N	2.30	0.47
1:S:34:ILE:HG22	1:S:54:VAL:HG21	1.96	0.47
1:S:58:ALA:O	1:S:59:GLN:C	2.53	0.47
1:S:134:VAL:O	1:S:375:PHE:OXT	2.33	0.47
1:S:288:ASP:OD2	1:U:204:ALA:HB1	2.14	0.47
1:T:31:PHE:HA	1:T:32:PRO:HD3	1.66	0.47
1:T:37:ARG:O	1:T:66:THR:CG2	2.63	0.47
1:T:58:ALA:O	1:T:59:GLN:C	2.53	0.47
1:T:288:ASP:OD2	1:V:204:ALA:HB1	2.14	0.47
1:U:134:VAL:O	1:U:375:PHE:OXT	2.33	0.47
1:V:236:LEU:HD11	1:V:237:GLU:HG2	1.96	0.47
1:W:134:VAL:O	1:W:375:PHE:OXT	2.33	0.47
1:A:58:ALA:O	1:A:59:GLN:C	2.53	0.47
1:A:134:VAL:O	1:A:375:PHE:OXT	2.33	0.47
1:A:169:TYR:CD1	1:C:42:GLY:HA3	2.50	0.47
1:C:14:SER:HB2	1:C:183:ARG:HH22	1.80	0.47
1:D:143:TYR:CZ	1:D:345:ILE:CG2	2.98	0.47
1:D:335:ARG:HA	1:D:335:ARG:HD3	1.39	0.47
1:D:369:ILE:HG22	1:D:370:VAL:N	2.29	0.47
1:E:58:ALA:O	1:E:59:GLN:C	2.53	0.47
1:G:14:SER:HB2	1:G:183:ARG:HH22	1.80	0.47
1:G:73:HIC:HA	1:G:183:ARG:NH1	2.18	0.47
1:G:288:ASP:OD2	1:I:204:ALA:HB1	2.14	0.47
1:G:290:ARG:HB2	1:I:244:ASP:HA	1.97	0.47
1:H:147:ARG:HH21	1:H:147:ARG:HG3	1.80	0.47
1:I:14:SER:HB2	1:I:183:ARG:HH22	1.80	0.47
1:I:37:ARG:O	1:I:66:THR:CG2	2.63	0.47
1:I:58:ALA:O	1:I:59:GLN:C	2.53	0.47
1:J:236:LEU:HD11	1:J:237:GLU:HG2	1.96	0.47
1:L:37:ARG:O	1:L:66:THR:CG2	2.63	0.47
1:L:61:LYS:HG2	1:L:64:ILE:CG2	2.45	0.47
1:L:369:ILE:HG23	1:L:370:VAL:N	2.30	0.47
1:M:8:LEU:O	1:M:104:LEU:N	2.47	0.47
1:M:134:VAL:O	1:M:375:PHE:OXT	2.33	0.47
1:N:134:VAL:O	1:N:375:PHE:OXT	2.33	0.47
1:N:288:ASP:OD1	1:P:208:ILE:HD12	2.15	0.47
1:O:134:VAL:O	1:O:375:PHE:OXT	2.33	0.47
1:O:288:ASP:OD2	1:Q:204:ALA:HB1	2.14	0.47
1:P:287:ILE:HD12	1:R:208:ILE:HD13	1.96	0.47
1:P:298:VAL:HG12	1:P:335:ARG:NH1	2.28	0.47
1:Q:34:ILE:HG22	1:Q:35:VAL:H	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:143:TYR:CZ	1:Q:345:ILE:CG2	2.97	0.47
1:R:288:ASP:OD1	1:T:208:ILE:HD12	2.15	0.47
1:R:290:ARG:HB2	1:T:244:ASP:HA	1.97	0.47
1:R:298:VAL:HG12	1:R:335:ARG:NH1	2.28	0.47
1:S:58:ALA:CB	1:S:65:LEU:CD2	2.90	0.47
1:S:288:ASP:OD1	1:U:208:ILE:HD12	2.15	0.47
1:S:369:ILE:HG22	1:S:370:VAL:N	2.29	0.47
1:T:58:ALA:CB	1:T:65:LEU:CD2	2.90	0.47
1:U:37:ARG:O	1:U:66:THR:CG2	2.63	0.47
1:V:44:MET:CG	1:V:45:VAL:N	2.75	0.47
1:V:299:MET:HE1	1:V:304:THR:HB	1.97	0.47
1:W:58:ALA:O	1:W:59:GLN:C	2.53	0.47
1:A:34:ILE:HG23	1:A:68:LYS:H	1.79	0.47
1:A:290:ARG:HB2	1:C:244:ASP:HA	1.97	0.47
1:D:34:ILE:HG22	1:D:54:VAL:HG21	1.96	0.47
1:E:143:TYR:CZ	1:E:345:ILE:CG2	2.98	0.47
1:F:73:HIC:HA	1:F:183:ARG:NH1	2.18	0.47
1:F:287:ILE:HD12	1:H:208:ILE:HD13	1.96	0.47
1:G:8:LEU:O	1:G:104:LEU:N	2.47	0.47
1:G:34:ILE:HG22	1:G:54:VAL:HG21	1.96	0.47
1:G:37:ARG:O	1:G:66:THR:CG2	2.63	0.47
1:G:143:TYR:CZ	1:G:345:ILE:CG2	2.98	0.47
1:H:58:ALA:O	1:H:59:GLN:C	2.53	0.47
1:I:169:TYR:CD1	1:K:42:GLY:HA3	2.50	0.47
1:I:236:LEU:HD22	1:I:251:GLY:C	2.34	0.47
1:K:34:ILE:HG22	1:K:54:VAL:HG21	1.95	0.47
1:K:287:ILE:HD12	1:M:208:ILE:HD13	1.96	0.47
1:L:58:ALA:O	1:L:59:GLN:C	2.53	0.47
1:L:288:ASP:OD1	1:N:208:ILE:HD12	2.15	0.47
1:M:143:TYR:CZ	1:M:345:ILE:CG2	2.97	0.47
1:N:236:LEU:HD11	1:N:237:GLU:HG2	1.96	0.47
1:O:14:SER:HB2	1:O:183:ARG:HH22	1.80	0.47
1:O:287:ILE:HD12	1:Q:208:ILE:HD13	1.96	0.47
1:O:369:ILE:HG22	1:O:370:VAL:N	2.29	0.47
1:P:236:LEU:HD22	1:P:251:GLY:C	2.34	0.47
1:Q:61:LYS:HG2	1:Q:64:ILE:CG2	2.45	0.47
1:Q:106:THR:HB	1:Q:137:GLN:HG2	1.97	0.47
1:R:227:MET:HA	1:R:227:MET:HE3	1.97	0.47
1:S:236:LEU:HD22	1:S:251:GLY:C	2.34	0.47
1:T:34:ILE:HG23	1:T:68:LYS:H	1.79	0.47
1:W:180:LEU:O	1:W:180:LEU:HG	2.11	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:ILE:HG23	1:B:68:LYS:H	1.79	0.47
1:B:335:ARG:HA	1:B:335:ARG:HD3	1.39	0.47
1:C:34:ILE:HD13	1:C:67:LEU:CD1	2.41	0.47
1:C:37:ARG:O	1:C:66:THR:CG2	2.63	0.47
1:D:288:ASP:OD1	1:F:208:ILE:HD12	2.15	0.47
1:D:298:VAL:HG12	1:D:335:ARG:NH1	2.28	0.47
1:E:288:ASP:OD2	1:G:204:ALA:HB1	2.14	0.47
1:H:37:ARG:O	1:H:66:THR:CG2	2.63	0.47
1:J:173:HIS:HE1	1:K:268:GLY:CA	2.28	0.47
1:K:61:LYS:HG2	1:K:64:ILE:CG2	2.45	0.47
1:K:143:TYR:CZ	1:K:345:ILE:CG2	2.98	0.47
1:L:34:ILE:HG22	1:L:35:VAL:H	1.78	0.47
1:L:236:LEU:HD11	1:L:237:GLU:HG2	1.96	0.47
1:N:39:ARG:NE	1:N:66:THR:CA	2.69	0.47
1:N:44:MET:CG	1:N:45:VAL:N	2.76	0.47
1:N:61:LYS:HG2	1:N:64:ILE:CG2	2.45	0.47
1:P:134:VAL:O	1:P:375:PHE:OXT	2.33	0.47
1:P:288:ASP:OD1	1:R:208:ILE:HD12	2.15	0.47
1:Q:34:ILE:HG22	1:Q:54:VAL:HG21	1.95	0.47
1:S:106:THR:HB	1:S:137:GLN:HG2	1.97	0.47
1:T:335:ARG:HA	1:T:335:ARG:HD3	1.39	0.47
1:V:14:SER:HB2	1:V:183:ARG:HH22	1.80	0.47
1:W:349:LEU:HD23	1:W:349:LEU:HA	1.80	0.47
1:A:14:SER:HB2	1:A:183:ARG:HH22	1.80	0.46
1:A:44:MET:CG	1:A:45:VAL:H	2.18	0.46
1:A:143:TYR:CE2	1:A:346:LEU:HD13	2.51	0.46
1:A:152:VAL:HG22	1:A:298:VAL:HB	1.98	0.46
1:B:152:VAL:HG22	1:B:298:VAL:HB	1.98	0.46
1:C:134:VAL:O	1:C:375:PHE:OXT	2.33	0.46
1:C:169:TYR:CD1	1:E:42:GLY:HA3	2.50	0.46
1:D:14:SER:HB2	1:D:183:ARG:HH22	1.80	0.46
1:D:73:HIC:HA	1:D:183:ARG:NH1	2.18	0.46
1:E:287:ILE:HD12	1:G:208:ILE:HD13	1.96	0.46
1:F:58:ALA:CB	1:F:65:LEU:CD2	2.90	0.46
1:G:287:ILE:HD12	1:I:208:ILE:HD13	1.96	0.46
1:I:143:TYR:CZ	1:I:345:ILE:CG2	2.98	0.46
1:I:369:ILE:HG22	1:I:370:VAL:N	2.29	0.46
1:J:58:ALA:CB	1:J:65:LEU:CD2	2.90	0.46
1:K:134:VAL:O	1:K:375:PHE:OXT	2.33	0.46
1:K:169:TYR:CD1	1:M:42:GLY:HA3	2.50	0.46
1:L:288:ASP:OD2	1:N:204:ALA:HB1	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:GLU:HB3	1:L:369:ILE:CD1	2.14	0.46
1:N:8:LEU:O	1:N:104:LEU:N	2.47	0.46
1:N:14:SER:HB2	1:N:183:ARG:HH22	1.80	0.46
1:O:152:VAL:HG22	1:O:298:VAL:HB	1.98	0.46
1:Q:147:ARG:HH21	1:Q:147:ARG:HG3	1.80	0.46
1:R:8:LEU:O	1:R:104:LEU:N	2.47	0.46
1:U:106:THR:HB	1:U:137:GLN:HG2	1.97	0.46
1:W:14:SER:HB2	1:W:183:ARG:HH22	1.80	0.46
1:W:336:LYS:HE2	2:W:401:ADP:C5'	2.38	0.46
1:A:147:ARG:HH21	1:A:147:ARG:HG3	1.80	0.46
1:B:106:THR:HB	1:B:137:GLN:HG2	1.97	0.46
1:C:143:TYR:CE2	1:C:346:LEU:HD13	2.51	0.46
1:C:336:LYS:HE2	2:C:401:ADP:C5'	2.38	0.46
1:E:61:LYS:HG2	1:E:64:ILE:CG2	2.45	0.46
1:F:143:TYR:CE2	1:F:346:LEU:HD13	2.51	0.46
1:H:143:TYR:CE2	1:H:346:LEU:HD13	2.51	0.46
1:I:58:ALA:CB	1:I:65:LEU:CD2	2.90	0.46
1:J:61:LYS:HG2	1:J:64:ILE:CG2	2.45	0.46
1:J:152:VAL:HG22	1:J:298:VAL:HB	1.98	0.46
1:J:223:PHE:CD1	1:J:259:GLU:CG	2.96	0.46
1:K:44:MET:CG	1:K:45:VAL:N	2.75	0.46
1:L:290:ARG:HB2	1:N:244:ASP:HA	1.97	0.46
1:N:152:VAL:HG22	1:N:298:VAL:HB	1.98	0.46
1:N:369:ILE:HG23	1:N:370:VAL:N	2.30	0.46
1:O:147:ARG:HH21	1:O:147:ARG:HG3	1.80	0.46
1:P:37:ARG:O	1:P:66:THR:CG2	2.63	0.46
1:Q:152:VAL:HG22	1:Q:298:VAL:HB	1.98	0.46
1:R:58:ALA:CB	1:R:65:LEU:CD2	2.90	0.46
1:S:61:LYS:HG2	1:S:64:ILE:CG2	2.45	0.46
1:U:44:MET:CG	1:U:45:VAL:N	2.75	0.46
1:U:152:VAL:HG22	1:U:298:VAL:HB	1.98	0.46
1:V:143:TYR:CZ	1:V:345:ILE:CG2	2.98	0.46
1:B:143:TYR:CZ	1:B:345:ILE:CG2	2.98	0.46
1:B:287:ILE:HD12	1:D:208:ILE:HD13	1.96	0.46
1:C:143:TYR:CZ	1:C:345:ILE:CG2	2.98	0.46
1:C:152:VAL:HG22	1:C:298:VAL:HB	1.98	0.46
1:D:37:ARG:O	1:D:66:THR:CG2	2.63	0.46
1:D:61:LYS:HG2	1:D:64:ILE:CG2	2.45	0.46
1:E:134:VAL:O	1:E:375:PHE:OXT	2.33	0.46
1:F:34:ILE:HG22	1:F:54:VAL:HG21	1.96	0.46
1:F:169:TYR:CD1	1:H:42:GLY:HA3	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:169:TYR:CD1	1:I:42:GLY:HA3	2.50	0.46
1:H:223:PHE:CD1	1:H:259:GLU:CG	2.96	0.46
1:I:134:VAL:O	1:I:375:PHE:OXT	2.33	0.46
1:L:39:ARG:NE	1:L:66:THR:CA	2.69	0.46
1:L:147:ARG:HH21	1:L:147:ARG:HG3	1.80	0.46
1:L:152:VAL:HG22	1:L:298:VAL:HB	1.98	0.46
1:M:143:TYR:CE2	1:M:346:LEU:HD13	2.51	0.46
1:N:169:TYR:CD1	1:P:42:GLY:HA3	2.50	0.46
1:O:143:TYR:CZ	1:O:345:ILE:CG2	2.98	0.46
1:O:143:TYR:CE2	1:O:346:LEU:HD13	2.51	0.46
1:O:288:ASP:OD1	1:Q:208:ILE:HD12	2.15	0.46
1:P:290:ARG:HB2	1:R:244:ASP:HA	1.97	0.46
1:Q:8:LEU:O	1:Q:104:LEU:N	2.47	0.46
1:R:134:VAL:O	1:R:375:PHE:OXT	2.33	0.46
1:R:173:HIS:HE1	1:S:268:GLY:CA	2.28	0.46
1:R:369:ILE:HG22	1:R:370:VAL:N	2.29	0.46
1:S:37:ARG:O	1:S:66:THR:CG2	2.63	0.46
1:S:299:MET:HE1	1:S:304:THR:HB	1.97	0.46
1:T:44:MET:CG	1:T:45:VAL:N	2.76	0.46
1:T:61:LYS:HG2	1:T:64:ILE:CG2	2.45	0.46
1:T:143:TYR:CZ	1:T:345:ILE:CG2	2.98	0.46
1:U:61:LYS:HG2	1:U:64:ILE:CG2	2.45	0.46
1:W:37:ARG:O	1:W:66:THR:CG2	2.63	0.46
1:B:369:ILE:HG23	1:B:370:VAL:N	2.30	0.46
1:C:39:ARG:NE	1:C:66:THR:CA	2.69	0.46
1:D:152:VAL:HG22	1:D:298:VAL:HB	1.98	0.46
1:D:169:TYR:CD1	1:F:42:GLY:HA3	2.50	0.46
1:F:14:SER:HB2	1:F:183:ARG:HH22	1.80	0.46
1:G:134:VAL:O	1:G:375:PHE:OXT	2.33	0.46
1:H:152:VAL:HG22	1:H:298:VAL:HB	1.98	0.46
1:H:227:MET:HA	1:H:227:MET:HE3	1.96	0.46
1:H:300:SER:HA	1:H:335:ARG:HG2	1.89	0.46
1:I:9:VAL:HG21	1:I:344:SER:HA	1.98	0.46
1:I:34:ILE:HD13	1:I:67:LEU:CD2	2.46	0.46
1:J:143:TYR:CE2	1:J:346:LEU:HD13	2.51	0.46
1:M:152:VAL:HG22	1:M:298:VAL:HB	1.98	0.46
1:N:34:ILE:HD13	1:N:67:LEU:CD1	2.41	0.46
1:N:236:LEU:CD1	1:N:237:GLU:CG	2.93	0.46
1:O:37:ARG:O	1:O:66:THR:CG2	2.63	0.46
1:O:106:THR:HB	1:O:137:GLN:HG2	1.98	0.46
1:T:9:VAL:HG21	1:T:344:SER:HA	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:134:VAL:O	1:T:375:PHE:OXT	2.33	0.46
1:T:236:LEU:HD11	1:T:237:GLU:HG2	1.96	0.46
1:T:288:ASP:OD1	1:V:208:ILE:HD12	2.15	0.46
1:U:58:ALA:CB	1:U:65:LEU:CD2	2.90	0.46
1:U:369:ILE:HG22	1:U:370:VAL:N	2.29	0.46
1:V:106:THR:HB	1:V:137:GLN:HG2	1.97	0.46
1:V:134:VAL:O	1:V:375:PHE:OXT	2.33	0.46
1:W:106:THR:HB	1:W:137:GLN:HG2	1.97	0.46
1:W:236:LEU:HD11	1:W:237:GLU:HG2	1.96	0.46
1:W:369:ILE:HG23	1:W:370:VAL:N	2.30	0.46
1:B:8:LEU:O	1:B:104:LEU:N	2.47	0.46
1:C:9:VAL:HG21	1:C:344:SER:HA	1.98	0.46
1:C:173:HIS:HE1	1:D:268:GLY:CA	2.28	0.46
1:D:8:LEU:O	1:D:104:LEU:N	2.47	0.46
1:E:290:ARG:HB2	1:G:244:ASP:HA	1.97	0.46
1:F:152:VAL:HG22	1:F:298:VAL:HB	1.98	0.46
1:F:223:PHE:CD1	1:F:259:GLU:CG	2.96	0.46
1:H:58:ALA:CB	1:H:65:LEU:CD2	2.90	0.46
1:I:287:ILE:HD12	1:K:208:ILE:HD13	1.96	0.46
1:J:8:LEU:O	1:J:104:LEU:N	2.47	0.46
1:L:44:MET:CG	1:L:45:VAL:N	2.75	0.46
1:L:223:PHE:CD1	1:L:259:GLU:CG	2.96	0.46
1:M:369:ILE:HG23	1:M:370:VAL:N	2.30	0.46
1:N:173:HIS:HE1	1:O:268:GLY:CA	2.28	0.46
1:N:180:LEU:O	1:N:180:LEU:HG	2.11	0.46
1:O:180:LEU:O	1:O:180:LEU:HG	2.11	0.46
1:P:61:LYS:HG2	1:P:64:ILE:CG2	2.45	0.46
1:P:152:VAL:HG22	1:P:298:VAL:HB	1.98	0.46
1:S:152:VAL:HG22	1:S:298:VAL:HB	1.98	0.46
1:T:143:TYR:CE2	1:T:346:LEU:HD13	2.51	0.46
1:U:288:ASP:OD1	1:W:208:ILE:HD12	2.15	0.46
1:V:152:VAL:HG22	1:V:298:VAL:HB	1.98	0.46
1:W:61:LYS:HG2	1:W:64:ILE:CG2	2.45	0.46
1:W:152:VAL:HG22	1:W:298:VAL:HB	1.98	0.46
1:A:288:ASP:OD1	1:C:208:ILE:HD12	2.15	0.46
1:C:44:MET:CG	1:C:45:VAL:H	2.18	0.46
1:C:147:ARG:HH21	1:C:147:ARG:HG3	1.80	0.46
1:C:290:ARG:HB2	1:E:244:ASP:HA	1.97	0.46
1:D:143:TYR:CE2	1:D:346:LEU:HD13	2.51	0.46
1:D:227:MET:HA	1:D:227:MET:HE3	1.97	0.46
1:E:173:HIS:HE1	1:F:268:GLY:CA	2.28	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:152:VAL:HG22	1:G:298:VAL:HB	1.98	0.46
1:H:34:ILE:HG22	1:H:54:VAL:HG21	1.95	0.46
1:H:73:HIC:HA	1:H:183:ARG:NH1	2.18	0.46
1:I:152:VAL:HG22	1:I:298:VAL:HB	1.98	0.46
1:I:290:ARG:HB2	1:K:244:ASP:HA	1.97	0.46
1:K:14:SER:HB2	1:K:183:ARG:HH22	1.80	0.46
1:L:336:LYS:HE2	2:L:401:ADP:C5'	2.38	0.46
1:M:106:THR:HB	1:M:137:GLN:HG2	1.97	0.46
1:M:135:ALA:HB3	1:M:140:LEU:HD11	1.98	0.46
1:M:169:TYR:CD1	1:O:42:GLY:HA3	2.50	0.46
1:N:37:ARG:O	1:N:66:THR:CG2	2.63	0.46
1:N:336:LYS:HE2	2:N:401:ADP:C5'	2.38	0.46
1:O:61:LYS:HG2	1:O:64:ILE:CG2	2.45	0.46
1:O:227:MET:HA	1:O:227:MET:HE3	1.97	0.46
1:P:14:SER:HB2	1:P:183:ARG:HH22	1.80	0.46
1:Q:369:ILE:HG23	1:Q:370:VAL:N	2.30	0.46
1:R:143:TYR:CE2	1:R:346:LEU:HD13	2.51	0.46
1:T:152:VAL:HG22	1:T:298:VAL:HB	1.98	0.46
1:T:290:ARG:HB2	1:V:244:ASP:HA	1.97	0.46
1:V:37:ARG:O	1:V:66:THR:CG2	2.63	0.46
1:W:135:ALA:HB3	1:W:140:LEU:HD11	1.98	0.46
1:A:33:SER:O	1:A:69:TYR:CD1	2.69	0.46
1:A:135:ALA:HB3	1:A:140:LEU:HD11	1.98	0.46
1:C:61:LYS:HG2	1:C:64:ILE:CG2	2.45	0.46
1:D:106:THR:HB	1:D:137:GLN:HG2	1.97	0.46
1:D:223:PHE:CD1	1:D:259:GLU:CG	2.96	0.46
1:E:143:TYR:CE2	1:E:346:LEU:HD13	2.51	0.46
1:E:169:TYR:CD1	1:G:42:GLY:HA3	2.50	0.46
1:E:299:MET:HE1	1:E:304:THR:HB	1.98	0.46
1:F:135:ALA:HB3	1:F:140:LEU:HD11	1.98	0.46
1:G:34:ILE:CG2	1:G:67:LEU:HD22	2.27	0.46
1:G:39:ARG:NE	1:G:66:THR:CA	2.69	0.46
1:H:169:TYR:CD1	1:J:42:GLY:HA3	2.50	0.46
1:I:287:ILE:HB	1:K:244:ASP:HB3	1.97	0.46
1:I:369:ILE:HG23	1:I:370:VAL:N	2.30	0.46
1:J:135:ALA:HB3	1:J:140:LEU:HD11	1.98	0.46
1:J:288:ASP:OD1	1:L:208:ILE:HD12	2.15	0.46
1:L:143:TYR:CE2	1:L:346:LEU:HD13	2.51	0.46
1:M:14:SER:HB2	1:M:183:ARG:HH22	1.80	0.46
1:O:169:TYR:CD1	1:Q:42:GLY:HA3	2.50	0.46
1:Q:143:TYR:CE2	1:Q:346:LEU:HD13	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:169:TYR:CD1	1:S:42:GLY:HA3	2.50	0.46
1:T:106:THR:HB	1:T:137:GLN:HG2	1.97	0.46
1:T:173:HIS:HE1	1:U:268:GLY:CA	2.28	0.46
1:T:349:LEU:HD23	1:T:349:LEU:HA	1.80	0.46
1:U:39:ARG:NE	1:U:66:THR:CA	2.69	0.46
1:U:236:LEU:HD11	1:U:237:GLU:HG2	1.96	0.46
1:V:33:SER:O	1:V:69:TYR:CD1	2.69	0.46
1:V:143:TYR:CE2	1:V:346:LEU:HD13	2.51	0.46
1:V:144:ALA:HB2	1:V:342:GLY:N	2.31	0.46
1:W:33:SER:O	1:W:69:TYR:CD1	2.69	0.46
1:W:143:TYR:CE2	1:W:346:LEU:HD13	2.51	0.46
1:B:169:TYR:CD1	1:D:42:GLY:HA3	2.50	0.46
1:B:223:PHE:CD1	1:B:259:GLU:CG	2.96	0.46
1:C:135:ALA:HB3	1:C:140:LEU:HD11	1.98	0.46
1:D:135:ALA:HB3	1:D:140:LEU:HD11	1.98	0.46
1:D:287:ILE:HD12	1:F:208:ILE:HD13	1.96	0.46
1:E:33:SER:O	1:E:69:TYR:CD1	2.69	0.46
1:F:8:LEU:O	1:F:104:LEU:N	2.47	0.46
1:F:37:ARG:O	1:F:66:THR:CG2	2.63	0.46
1:H:135:ALA:HB3	1:H:140:LEU:HD11	1.98	0.46
1:I:236:LEU:HD11	1:I:237:GLU:HG2	1.96	0.46
1:I:288:ASP:OD1	1:K:208:ILE:HD12	2.15	0.46
1:J:7:ALA:HB1	1:J:347:ALA:HB1	1.98	0.46
1:K:37:ARG:O	1:K:66:THR:CG2	2.63	0.46
1:K:152:VAL:HG22	1:K:298:VAL:HB	1.98	0.46
1:L:33:SER:O	1:L:69:TYR:CD1	2.69	0.46
1:M:37:ARG:O	1:M:66:THR:CG2	2.63	0.46
1:M:61:LYS:HG2	1:M:64:ILE:CG2	2.45	0.46
1:M:144:ALA:HB2	1:M:342:GLY:N	2.31	0.46
1:M:290:ARG:HB2	1:O:244:ASP:HA	1.97	0.46
1:N:135:ALA:HB3	1:N:140:LEU:HD11	1.98	0.46
1:O:135:ALA:HB3	1:O:140:LEU:HD11	1.98	0.46
1:P:33:SER:O	1:P:69:TYR:CD1	2.69	0.46
1:P:135:ALA:HB3	1:P:140:LEU:HD11	1.98	0.46
1:P:336:LYS:HE2	2:P:401:ADP:C5'	2.38	0.46
1:Q:44:MET:CG	1:Q:45:VAL:H	2.18	0.46
1:Q:73:HIC:HA	1:Q:183:ARG:NH1	2.18	0.46
1:R:9:VAL:HG21	1:R:344:SER:HA	1.98	0.46
1:R:152:VAL:HG22	1:R:298:VAL:HB	1.98	0.46
1:T:14:SER:HB2	1:T:183:ARG:HH22	1.80	0.46
1:T:33:SER:O	1:T:69:TYR:CD1	2.69	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:144:ALA:HB2	1:T:342:GLY:N	2.31	0.46
1:T:287:ILE:HB	1:V:244:ASP:HB3	1.97	0.46
1:T:369:ILE:HG23	1:T:370:VAL:N	2.30	0.46
1:U:33:SER:O	1:U:69:TYR:CD1	2.69	0.46
1:U:135:ALA:HB3	1:U:140:LEU:HD11	1.98	0.46
1:U:287:ILE:HB	1:W:244:ASP:HB3	1.97	0.46
1:W:374:CYS:HB2	1:W:375:PHE:H	1.61	0.46
1:B:37:ARG:O	1:B:66:THR:CG2	2.63	0.46
1:B:44:MET:CG	1:B:45:VAL:H	2.18	0.46
1:B:135:ALA:HB3	1:B:140:LEU:HD11	1.98	0.46
1:B:369:ILE:HG22	1:B:370:VAL:H	1.81	0.46
1:C:300:SER:HA	1:C:335:ARG:HG2	1.89	0.46
1:E:37:ARG:O	1:E:66:THR:CG2	2.63	0.46
1:E:73:HIC:HA	1:E:183:ARG:NH1	2.18	0.46
1:E:152:VAL:HG22	1:E:298:VAL:HB	1.98	0.46
1:H:61:LYS:HG2	1:H:64:ILE:CG2	2.45	0.46
1:I:7:ALA:HB1	1:I:347:ALA:HB1	1.98	0.46
1:I:38:PRO:HD3	1:I:49:GLN:HE22	1.81	0.46
1:K:7:ALA:HB1	1:K:347:ALA:HB1	1.98	0.46
1:K:143:TYR:CE2	1:K:346:LEU:HD13	2.51	0.46
1:M:31:PHE:HA	1:M:32:PRO:HD3	1.66	0.46
1:N:147:ARG:HH21	1:N:147:ARG:HG3	1.80	0.46
1:O:34:ILE:HG22	1:O:35:VAL:H	1.78	0.46
1:O:144:ALA:HB2	1:O:342:GLY:N	2.31	0.46
1:P:143:TYR:CE2	1:P:346:LEU:HD13	2.51	0.46
1:R:144:ALA:HB2	1:R:342:GLY:N	2.31	0.46
1:R:223:PHE:CD1	1:R:259:GLU:CG	2.96	0.46
1:R:236:LEU:HD11	1:R:237:GLU:HG2	1.96	0.46
1:S:135:ALA:HB3	1:S:140:LEU:HD11	1.98	0.46
1:T:374:CYS:HB2	1:T:375:PHE:H	1.61	0.46
1:V:135:ALA:HB3	1:V:140:LEU:HD11	1.98	0.46
1:A:61:LYS:HG2	1:A:64:ILE:CG2	2.45	0.46
1:A:144:ALA:HB2	1:A:342:GLY:N	2.31	0.46
1:C:34:ILE:HG22	1:C:35:VAL:H	1.78	0.46
1:E:287:ILE:HB	1:G:244:ASP:HB3	1.98	0.46
1:E:369:ILE:HG23	1:E:370:VAL:N	2.30	0.46
1:G:9:VAL:HG21	1:G:344:SER:HA	1.98	0.46
1:G:135:ALA:HB3	1:G:140:LEU:HD11	1.98	0.46
1:H:180:LEU:O	1:H:180:LEU:HG	2.11	0.46
1:J:34:ILE:HG23	1:J:68:LYS:H	1.79	0.46
1:J:290:ARG:HB2	1:L:244:ASP:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:369:ILE:HG22	1:J:370:VAL:H	1.81	0.46
1:K:369:ILE:HG22	1:K:370:VAL:H	1.81	0.46
1:L:7:ALA:HB1	1:L:347:ALA:HB1	1.98	0.46
1:L:34:ILE:N	1:L:54:VAL:HG11	2.31	0.46
1:M:7:ALA:HB1	1:M:347:ALA:HB1	1.98	0.46
1:M:34:ILE:HD13	1:M:67:LEU:CD2	2.46	0.46
1:N:9:VAL:HG21	1:N:344:SER:HA	1.98	0.46
1:N:287:ILE:HD12	1:P:208:ILE:HD13	1.96	0.46
1:N:290:ARG:HB2	1:P:244:ASP:HA	1.97	0.46
1:P:43:VAL:C	1:P:44:MET:HG2	2.37	0.46
1:P:58:ALA:CB	1:P:65:LEU:CD2	2.90	0.46
1:R:33:SER:O	1:R:69:TYR:CD1	2.69	0.46
1:R:39:ARG:NE	1:R:66:THR:CA	2.69	0.46
1:R:43:VAL:C	1:R:44:MET:HG2	2.37	0.46
1:R:61:LYS:HG2	1:R:64:ILE:CG2	2.45	0.46
1:R:135:ALA:HB3	1:R:140:LEU:HD11	1.98	0.46
1:R:335:ARG:HA	1:R:335:ARG:HD3	1.39	0.46
1:S:33:SER:O	1:S:69:TYR:CD1	2.69	0.46
1:S:34:ILE:CG2	1:S:67:LEU:HD22	2.28	0.46
1:S:143:TYR:CE2	1:S:346:LEU:HD13	2.51	0.46
1:T:135:ALA:HB3	1:T:140:LEU:HD11	1.98	0.46
1:U:133:TYR:CE2	1:U:375:PHE:HB2	2.51	0.46
1:U:169:TYR:CD1	1:W:42:GLY:HA3	2.50	0.46
1:A:8:LEU:O	1:A:104:LEU:N	2.47	0.45
1:A:34:ILE:HD13	1:A:67:LEU:CD2	2.46	0.45
1:C:144:ALA:HB2	1:C:342:GLY:N	2.31	0.45
1:C:287:ILE:HD12	1:E:208:ILE:HD13	1.96	0.45
1:F:349:LEU:HD23	1:F:349:LEU:HA	1.80	0.45
1:H:7:ALA:HB1	1:H:347:ALA:HB1	1.98	0.45
1:H:369:ILE:HG22	1:H:370:VAL:H	1.81	0.45
1:H:369:ILE:HG23	1:H:370:VAL:N	2.30	0.45
1:I:135:ALA:HB3	1:I:140:LEU:HD11	1.98	0.45
1:J:169:TYR:CD1	1:L:42:GLY:HA3	2.50	0.45
1:K:135:ALA:HB3	1:K:140:LEU:HD11	1.98	0.45
1:L:135:ALA:HB3	1:L:140:LEU:HD11	1.98	0.45
1:L:169:TYR:CD1	1:N:42:GLY:HA3	2.50	0.45
1:L:287:ILE:HG22	1:L:290:ARG:NH1	2.32	0.45
1:N:7:ALA:HB1	1:N:347:ALA:HB1	1.98	0.45
1:N:106:THR:HB	1:N:137:GLN:HG2	1.97	0.45
1:N:223:PHE:CD1	1:N:259:GLU:CG	2.96	0.45
1:O:9:VAL:HG21	1:O:344:SER:HA	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:287:ILE:HG22	1:O:290:ARG:NH1	2.32	0.45
1:P:144:ALA:HB2	1:P:342:GLY:N	2.31	0.45
1:Q:135:ALA:HB3	1:Q:140:LEU:HD11	1.98	0.45
1:Q:335:ARG:HA	1:Q:335:ARG:HD3	1.39	0.45
1:Q:369:ILE:HG22	1:Q:370:VAL:H	1.81	0.45
1:R:106:THR:HB	1:R:137:GLN:HG2	1.97	0.45
1:R:287:ILE:HB	1:T:244:ASP:HB3	1.97	0.45
1:S:73:HIC:HA	1:S:183:ARG:NH1	2.18	0.45
1:S:169:TYR:CD1	1:U:42:GLY:HA3	2.50	0.45
1:S:236:LEU:CD1	1:S:237:GLU:CG	2.93	0.45
1:S:287:ILE:HD12	1:U:208:ILE:HD13	1.96	0.45
1:S:287:ILE:HB	1:U:244:ASP:HB3	1.97	0.45
1:U:43:VAL:C	1:U:44:MET:HG2	2.37	0.45
1:W:287:ILE:HG22	1:W:290:ARG:NH1	2.32	0.45
1:A:43:VAL:C	1:A:44:MET:HG2	2.37	0.45
1:A:106:THR:HB	1:A:137:GLN:HG2	1.97	0.45
1:B:38:PRO:HD3	1:B:49:GLN:HE22	1.82	0.45
1:B:73:HIC:HA	1:B:183:ARG:NH1	2.18	0.45
1:B:143:TYR:CE2	1:B:346:LEU:HD13	2.51	0.45
1:D:236:LEU:CD1	1:D:237:GLU:CG	2.93	0.45
1:D:369:ILE:HG23	1:D:370:VAL:N	2.30	0.45
1:E:147:ARG:HH21	1:E:147:ARG:HG3	1.80	0.45
1:F:144:ALA:HB2	1:F:342:GLY:N	2.31	0.45
1:G:7:ALA:HB1	1:G:347:ALA:HB1	1.98	0.45
1:G:144:ALA:HB2	1:G:342:GLY:N	2.31	0.45
1:H:34:ILE:N	1:H:54:VAL:HG11	2.31	0.45
1:H:144:ALA:HB2	1:H:342:GLY:N	2.31	0.45
1:I:33:SER:O	1:I:69:TYR:CD1	2.69	0.45
1:I:38:PRO:CG	1:I:49:GLN:NE2	2.79	0.45
1:J:38:PRO:HD3	1:J:49:GLN:HE22	1.82	0.45
1:J:106:THR:HB	1:J:137:GLN:HG2	1.97	0.45
1:K:144:ALA:HB2	1:K:342:GLY:N	2.31	0.45
1:K:290:ARG:HB2	1:M:244:ASP:HA	1.97	0.45
1:L:8:LEU:O	1:L:104:LEU:N	2.47	0.45
1:L:106:THR:HB	1:L:137:GLN:HG2	1.97	0.45
1:N:34:ILE:HD13	1:N:67:LEU:CD2	2.46	0.45
1:N:287:ILE:HG22	1:N:290:ARG:NH1	2.32	0.45
1:O:369:ILE:HG22	1:O:370:VAL:H	1.82	0.45
1:P:38:PRO:HD3	1:P:49:GLN:HE22	1.81	0.45
1:P:133:TYR:CE2	1:P:375:PHE:HB2	2.51	0.45
1:Q:37:ARG:O	1:Q:66:THR:CG2	2.63	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:38:PRO:HD3	1:Q:49:GLN:HE22	1.82	0.45
1:Q:144:ALA:HB2	1:Q:342:GLY:N	2.31	0.45
1:Q:287:ILE:HG22	1:Q:290:ARG:NH1	2.32	0.45
1:S:38:PRO:HD3	1:S:49:GLN:HE22	1.82	0.45
1:S:133:TYR:CE2	1:S:375:PHE:HB2	2.51	0.45
1:S:287:ILE:HG22	1:S:290:ARG:NH1	2.32	0.45
1:T:43:VAL:C	1:T:44:MET:HG2	2.37	0.45
1:V:164:PRO:CG	1:V:174:ALA:CB	2.95	0.45
1:A:9:VAL:HG21	1:A:344:SER:HA	1.98	0.45
1:A:34:ILE:N	1:A:54:VAL:HG11	2.31	0.45
1:C:287:ILE:HB	1:E:244:ASP:HB3	1.97	0.45
1:D:369:ILE:HG22	1:D:370:VAL:H	1.82	0.45
1:E:335:ARG:HA	1:E:335:ARG:HD3	1.39	0.45
1:F:7:ALA:HB1	1:F:347:ALA:HB1	1.98	0.45
1:F:34:ILE:N	1:F:54:VAL:HG11	2.31	0.45
1:F:61:LYS:HG2	1:F:64:ILE:CG2	2.45	0.45
1:F:106:THR:HB	1:F:137:GLN:HG2	1.97	0.45
1:F:324:THR:HG23	1:H:241:GLU:OE2	2.16	0.45
1:F:335:ARG:HA	1:F:335:ARG:HD3	1.39	0.45
1:G:287:ILE:HB	1:I:244:ASP:HB3	1.97	0.45
1:H:33:SER:O	1:H:69:TYR:CD1	2.69	0.45
1:I:144:ALA:HB2	1:I:342:GLY:N	2.31	0.45
1:I:369:ILE:HG22	1:I:370:VAL:H	1.82	0.45
1:J:34:ILE:HG22	1:J:35:VAL:H	1.78	0.45
1:J:287:ILE:HG22	1:J:290:ARG:NH1	2.32	0.45
1:K:9:VAL:HG21	1:K:344:SER:HA	1.98	0.45
1:K:33:SER:O	1:K:69:TYR:CD1	2.69	0.45
1:M:287:ILE:HG22	1:M:290:ARG:NH1	2.32	0.45
1:O:73:HIC:HA	1:O:183:ARG:NH1	2.18	0.45
1:P:106:THR:HB	1:P:137:GLN:HG2	1.97	0.45
1:P:223:PHE:CD1	1:P:259:GLU:CG	2.96	0.45
1:P:287:ILE:HB	1:R:244:ASP:HB3	1.97	0.45
1:Q:33:SER:O	1:Q:69:TYR:CD1	2.69	0.45
1:R:180:LEU:CD1	1:R:181:ALA:N	2.78	0.45
1:S:43:VAL:C	1:S:44:MET:HG2	2.37	0.45
1:T:164:PRO:CG	1:T:174:ALA:CB	2.95	0.45
1:U:287:ILE:HG22	1:U:290:ARG:NH1	2.32	0.45
1:V:38:PRO:HD3	1:V:49:GLN:HE22	1.81	0.45
1:W:43:VAL:C	1:W:44:MET:HG2	2.37	0.45
1:W:133:TYR:CE2	1:W:375:PHE:HB2	2.51	0.45
1:W:236:LEU:CD1	1:W:237:GLU:CG	2.93	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:369:ILE:HG22	1:W:370:VAL:H	1.82	0.45
1:A:38:PRO:HD3	1:A:49:GLN:HE22	1.81	0.45
1:A:287:ILE:HG22	1:A:290:ARG:NH1	2.32	0.45
1:B:290:ARG:HB2	1:D:244:ASP:HA	1.97	0.45
1:C:38:PRO:HD3	1:C:49:GLN:HE22	1.81	0.45
1:C:43:VAL:C	1:C:44:MET:HG2	2.37	0.45
1:C:287:ILE:HG22	1:C:290:ARG:NH1	2.32	0.45
1:D:38:PRO:HD3	1:D:49:GLN:HE22	1.82	0.45
1:D:144:ALA:HB2	1:D:342:GLY:N	2.31	0.45
1:E:116:ARG:NH1	1:E:375:PHE:HA	2.32	0.45
1:E:135:ALA:HB3	1:E:140:LEU:HD11	1.98	0.45
1:E:287:ILE:HG22	1:E:290:ARG:NH1	2.32	0.45
1:F:38:PRO:CG	1:F:49:GLN:NE2	2.79	0.45
1:F:290:ARG:HB2	1:H:244:ASP:HA	1.97	0.45
1:F:369:ILE:HG22	1:F:370:VAL:H	1.81	0.45
1:F:369:ILE:HG23	1:F:370:VAL:N	2.30	0.45
1:G:38:PRO:HD3	1:G:49:GLN:HE22	1.82	0.45
1:G:335:ARG:HA	1:G:335:ARG:HD3	1.39	0.45
1:H:287:ILE:HG22	1:H:290:ARG:NH1	2.32	0.45
1:K:106:THR:HB	1:K:137:GLN:HG2	1.97	0.45
1:K:287:ILE:HB	1:M:244:ASP:HB3	1.98	0.45
1:M:33:SER:O	1:M:69:TYR:CD1	2.69	0.45
1:M:34:ILE:N	1:M:54:VAL:HG11	2.31	0.45
1:N:34:ILE:N	1:N:54:VAL:HG11	2.31	0.45
1:N:43:VAL:C	1:N:44:MET:HG2	2.37	0.45
1:N:116:ARG:NH1	1:N:375:PHE:HA	2.32	0.45
1:N:143:TYR:CE2	1:N:346:LEU:HD13	2.51	0.45
1:O:7:ALA:HB1	1:O:347:ALA:HB1	1.98	0.45
1:O:33:SER:O	1:O:69:TYR:CD1	2.69	0.45
1:P:236:LEU:HD11	1:P:237:GLU:HG2	1.96	0.45
1:R:14:SER:HB2	1:R:183:ARG:HH22	1.80	0.45
1:R:38:PRO:HD3	1:R:49:GLN:HE22	1.81	0.45
1:R:287:ILE:HG22	1:R:290:ARG:NH1	2.32	0.45
1:S:180:LEU:O	1:S:180:LEU:HG	2.11	0.45
1:S:324:THR:HG23	1:U:241:GLU:OE2	2.16	0.45
1:T:287:ILE:HG22	1:T:290:ARG:NH1	2.32	0.45
1:U:34:ILE:N	1:U:54:VAL:HG11	2.31	0.45
1:U:143:TYR:CE2	1:U:346:LEU:HD13	2.51	0.45
1:U:369:ILE:HG22	1:U:370:VAL:H	1.82	0.45
1:V:9:VAL:HG21	1:V:344:SER:HA	1.98	0.45
1:V:369:ILE:HG22	1:V:370:VAL:H	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:8:LEU:O	1:W:104:LEU:N	2.47	0.45
1:A:173:HIS:HE1	1:B:268:GLY:CA	2.28	0.45
1:B:116:ARG:NH1	1:B:375:PHE:HA	2.32	0.45
1:B:164:PRO:CG	1:B:174:ALA:CB	2.95	0.45
1:C:33:SER:O	1:C:69:TYR:CD1	2.69	0.45
1:C:73:HIC:HA	1:C:183:ARG:NH1	2.18	0.45
1:C:116:ARG:NH1	1:C:375:PHE:HA	2.32	0.45
1:C:233:SER:HB3	1:C:236:LEU:HG	1.99	0.45
1:D:7:ALA:HB1	1:D:347:ALA:HB1	1.98	0.45
1:E:58:ALA:CB	1:E:65:LEU:CD2	2.90	0.45
1:E:324:THR:HG23	1:G:241:GLU:OE2	2.16	0.45
1:F:287:ILE:HG22	1:F:290:ARG:NH1	2.32	0.45
1:G:33:SER:O	1:G:69:TYR:CD1	2.69	0.45
1:G:116:ARG:NH1	1:G:375:PHE:HA	2.32	0.45
1:G:143:TYR:CE2	1:G:346:LEU:HD13	2.51	0.45
1:G:369:ILE:HG22	1:G:370:VAL:H	1.81	0.45
1:H:8:LEU:O	1:H:104:LEU:N	2.47	0.45
1:H:106:THR:HB	1:H:137:GLN:HG2	1.97	0.45
1:H:324:THR:HG23	1:J:241:GLU:OE2	2.16	0.45
1:J:144:ALA:HB2	1:J:342:GLY:N	2.31	0.45
1:L:236:LEU:CD1	1:L:237:GLU:CG	2.93	0.45
1:M:9:VAL:HG21	1:M:344:SER:HA	1.98	0.45
1:N:33:SER:O	1:N:69:TYR:CD1	2.69	0.45
1:P:7:ALA:HB1	1:P:347:ALA:HB1	1.98	0.45
1:Q:287:ILE:HB	1:S:244:ASP:HB3	1.97	0.45
1:T:34:ILE:HD13	1:T:67:LEU:CD2	2.46	0.45
1:T:324:THR:HG23	1:V:241:GLU:OE2	2.16	0.45
1:U:73:HIC:HA	1:U:183:ARG:NH1	2.18	0.45
1:U:144:ALA:HB2	1:U:342:GLY:N	2.31	0.45
1:U:324:THR:HG23	1:W:241:GLU:OE2	2.16	0.45
1:U:349:LEU:HD23	1:U:349:LEU:HA	1.80	0.45
1:W:116:ARG:NH1	1:W:375:PHE:HA	2.32	0.45
1:W:144:ALA:HB2	1:W:342:GLY:N	2.31	0.45
1:B:287:ILE:HG22	1:B:290:ARG:NH1	2.32	0.45
1:C:106:THR:HB	1:C:137:GLN:HG2	1.97	0.45
1:C:180:LEU:CD1	1:C:181:ALA:N	2.78	0.45
1:D:9:VAL:HG21	1:D:344:SER:HA	1.98	0.45
1:D:116:ARG:NH1	1:D:375:PHE:HA	2.32	0.45
1:D:180:LEU:O	1:D:180:LEU:HG	2.11	0.45
1:D:287:ILE:HG22	1:D:290:ARG:NH1	2.32	0.45
1:D:324:THR:HG23	1:F:241:GLU:OE2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:164:PRO:CG	1:G:174:ALA:CB	2.95	0.45
1:H:290:ARG:HB2	1:J:244:ASP:HA	1.97	0.45
1:K:38:PRO:HD3	1:K:49:GLN:HE22	1.81	0.45
1:K:287:ILE:HG22	1:K:290:ARG:NH1	2.32	0.45
1:L:38:PRO:HD3	1:L:49:GLN:HE22	1.81	0.45
1:L:116:ARG:NH1	1:L:375:PHE:HA	2.32	0.45
1:M:335:ARG:HA	1:M:335:ARG:HD3	1.39	0.45
1:M:369:ILE:HG22	1:M:370:VAL:H	1.82	0.45
1:N:144:ALA:HB2	1:N:342:GLY:N	2.31	0.45
1:O:31:PHE:HA	1:O:32:PRO:HD3	1.65	0.45
1:P:34:ILE:N	1:P:54:VAL:HG11	2.31	0.45
1:P:180:LEU:CD1	1:P:181:ALA:N	2.78	0.45
1:Q:290:ARG:HB2	1:S:244:ASP:HA	1.97	0.45
1:Q:324:THR:HG23	1:S:241:GLU:OE2	2.17	0.45
1:S:8:LEU:O	1:S:104:LEU:N	2.47	0.45
1:S:369:ILE:HG22	1:S:370:VAL:H	1.82	0.45
1:U:116:ARG:NH1	1:U:375:PHE:HA	2.32	0.45
1:W:110:LEU:CD1	1:W:177:ARG:NH1	2.80	0.45
1:A:180:LEU:CD1	1:A:181:ALA:N	2.78	0.45
1:A:233:SER:HB3	1:A:236:LEU:HG	1.99	0.45
1:B:7:ALA:HB1	1:B:347:ALA:HB1	1.98	0.45
1:C:34:ILE:N	1:C:54:VAL:HG11	2.31	0.45
1:C:369:ILE:HG22	1:C:370:VAL:H	1.81	0.45
1:E:7:ALA:HB1	1:E:347:ALA:HB1	1.98	0.45
1:E:9:VAL:HG21	1:E:344:SER:HA	1.98	0.45
1:E:106:THR:HB	1:E:137:GLN:HG2	1.98	0.45
1:E:167:GLU:OE1	1:G:61:LYS:CD	2.65	0.45
1:E:233:SER:HB3	1:E:236:LEU:HG	1.99	0.45
1:G:106:THR:HB	1:G:137:GLN:HG2	1.97	0.45
1:G:167:GLU:OE1	1:I:61:LYS:CD	2.65	0.45
1:G:180:LEU:CD1	1:G:181:ALA:N	2.78	0.45
1:G:236:LEU:HD11	1:G:237:GLU:HG2	1.96	0.45
1:G:324:THR:HG23	1:I:241:GLU:OE2	2.16	0.45
1:I:164:PRO:CG	1:I:174:ALA:CB	2.95	0.45
1:I:361:GLU:HB3	1:I:369:ILE:CD1	2.14	0.45
1:J:33:SER:O	1:J:69:TYR:CD1	2.69	0.45
1:J:164:PRO:CG	1:J:174:ALA:CB	2.95	0.45
1:J:167:GLU:OE1	1:L:61:LYS:CD	2.65	0.45
1:J:324:THR:HG23	1:L:241:GLU:OE2	2.16	0.45
1:K:7:ALA:HB3	1:K:347:ALA:HB1	1.99	0.45
1:K:34:ILE:N	1:K:54:VAL:HG11	2.31	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:164:PRO:CG	1:K:174:ALA:CB	2.95	0.45
1:K:167:GLU:OE1	1:M:61:LYS:CD	2.65	0.45
1:L:43:VAL:C	1:L:44:MET:HG2	2.37	0.45
1:L:164:PRO:CG	1:L:174:ALA:CB	2.95	0.45
1:L:369:ILE:HG22	1:L:370:VAL:H	1.81	0.45
1:M:7:ALA:HB3	1:M:347:ALA:HB1	1.99	0.45
1:M:287:ILE:HB	1:O:244:ASP:HB3	1.97	0.45
1:N:361:GLU:HB3	1:N:369:ILE:CD1	2.14	0.45
1:O:7:ALA:HB3	1:O:347:ALA:HB1	1.99	0.45
1:P:116:ARG:NH1	1:P:375:PHE:HA	2.32	0.45
1:P:287:ILE:HG22	1:P:290:ARG:NH1	2.32	0.45
1:Q:7:ALA:HB1	1:Q:347:ALA:HB1	1.98	0.45
1:Q:299:MET:HE1	1:Q:304:THR:HB	1.98	0.45
1:S:290:ARG:HB2	1:U:244:ASP:HA	1.97	0.45
1:S:369:ILE:HG23	1:S:370:VAL:N	2.30	0.45
1:T:369:ILE:HG22	1:T:370:VAL:H	1.81	0.45
1:U:8:LEU:O	1:U:104:LEU:N	2.47	0.45
1:V:43:VAL:C	1:V:44:MET:HG2	2.37	0.45
1:A:357:ILE:HD12	1:A:357:ILE:HA	1.79	0.45
1:A:369:ILE:HG22	1:A:370:VAL:H	1.81	0.45
1:B:33:SER:O	1:B:69:TYR:CD1	2.69	0.45
1:B:34:ILE:N	1:B:54:VAL:HG11	2.31	0.45
1:B:144:ALA:HB2	1:B:342:GLY:N	2.31	0.45
1:B:167:GLU:OE1	1:D:61:LYS:CD	2.65	0.45
1:B:300:SER:HA	1:B:335:ARG:NE	2.32	0.45
1:D:38:PRO:CG	1:D:49:GLN:NE2	2.79	0.45
1:D:164:PRO:CG	1:D:174:ALA:CB	2.95	0.45
1:D:290:ARG:HB2	1:F:244:ASP:HA	1.97	0.45
1:E:144:ALA:HB2	1:E:342:GLY:N	2.31	0.45
1:E:164:PRO:CG	1:E:174:ALA:CB	2.95	0.45
1:G:300:SER:HA	1:G:335:ARG:NE	2.32	0.45
1:H:38:PRO:HD3	1:H:49:GLN:HE22	1.81	0.45
1:H:164:PRO:CG	1:H:174:ALA:CB	2.95	0.45
1:H:236:LEU:CD1	1:H:237:GLU:CG	2.93	0.45
1:I:7:ALA:HB3	1:I:347:ALA:HB1	1.99	0.45
1:I:106:THR:HB	1:I:137:GLN:HG2	1.97	0.45
1:I:116:ARG:NH1	1:I:375:PHE:HA	2.32	0.45
1:I:167:GLU:OE1	1:K:61:LYS:CD	2.65	0.45
1:K:38:PRO:CG	1:K:49:GLN:NE2	2.79	0.45
1:L:287:ILE:HB	1:N:244:ASP:HB3	1.97	0.45
1:L:362:TYR:CE1	1:L:367:PRO:CB	2.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:167:GLU:OE1	1:O:61:LYS:CD	2.65	0.45
1:O:35:VAL:H	1:O:68:LYS:H	1.65	0.45
1:O:290:ARG:HB2	1:Q:244:ASP:HA	1.97	0.45
1:O:369:ILE:HG23	1:O:370:VAL:N	2.30	0.45
1:Q:7:ALA:HB3	1:Q:347:ALA:HB1	1.99	0.45
1:R:164:PRO:CG	1:R:174:ALA:CB	2.95	0.45
1:S:116:ARG:NH1	1:S:375:PHE:HA	2.32	0.45
1:S:236:LEU:HD11	1:S:237:GLU:HG2	1.96	0.45
1:T:38:PRO:CG	1:T:49:GLN:NE2	2.79	0.45
1:U:6:THR:O	1:U:102:PRO:HD2	2.17	0.45
1:U:300:SER:HA	1:U:335:ARG:NE	2.32	0.45
1:V:287:ILE:HG22	1:V:290:ARG:NH1	2.32	0.45
1:A:287:ILE:HB	1:C:244:ASP:HB3	1.97	0.45
1:B:9:VAL:HG21	1:B:344:SER:HA	1.98	0.45
1:B:38:PRO:CG	1:B:49:GLN:NE2	2.79	0.45
1:B:110:LEU:CD1	1:B:177:ARG:NH1	2.80	0.45
1:B:287:ILE:HB	1:D:244:ASP:HB3	1.97	0.45
1:C:7:ALA:HB1	1:C:347:ALA:HB1	1.98	0.45
1:D:34:ILE:HD13	1:D:67:LEU:CD2	2.46	0.45
1:D:34:ILE:N	1:D:54:VAL:HG11	2.31	0.45
1:E:300:SER:HA	1:E:335:ARG:NE	2.32	0.45
1:E:369:ILE:HG22	1:E:370:VAL:H	1.82	0.45
1:F:227:MET:HE3	1:F:227:MET:HA	1.98	0.45
1:F:287:ILE:HB	1:H:244:ASP:HB3	1.97	0.45
1:G:133:TYR:CE2	1:G:375:PHE:HB2	2.51	0.45
1:H:34:ILE:HD13	1:H:67:LEU:CD2	2.46	0.45
1:H:167:GLU:OE1	1:J:61:LYS:CD	2.65	0.45
1:H:287:ILE:HB	1:J:244:ASP:HB3	1.97	0.45
1:J:34:ILE:N	1:J:54:VAL:HG11	2.31	0.45
1:L:9:VAL:HG21	1:L:344:SER:HA	1.98	0.45
1:L:167:GLU:OE1	1:N:61:LYS:CD	2.65	0.45
1:M:44:MET:CG	1:M:45:VAL:N	2.75	0.45
1:O:34:ILE:N	1:O:54:VAL:HG11	2.31	0.45
1:O:38:PRO:HD3	1:O:49:GLN:HE22	1.82	0.45
1:O:324:THR:HG23	1:Q:241:GLU:OE2	2.16	0.45
1:P:34:ILE:HD13	1:P:67:LEU:CD2	2.46	0.45
1:Q:43:VAL:C	1:Q:44:MET:HG2	2.37	0.45
1:Q:167:GLU:OE1	1:S:61:LYS:CD	2.65	0.45
1:R:324:THR:HG23	1:T:241:GLU:OE2	2.16	0.45
1:S:7:ALA:HB1	1:S:347:ALA:HB1	1.98	0.45
1:S:7:ALA:HB3	1:S:347:ALA:HB1	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:335:ARG:HA	1:S:335:ARG:HD3	1.39	0.45
1:T:180:LEU:CD1	1:T:181:ALA:N	2.78	0.45
1:U:290:ARG:HB2	1:W:244:ASP:HA	1.97	0.45
1:V:34:ILE:HG22	1:V:35:VAL:H	1.78	0.45
1:V:34:ILE:N	1:V:54:VAL:HG11	2.31	0.45
1:V:233:SER:HB3	1:V:236:LEU:HG	1.99	0.45
1:W:34:ILE:N	1:W:54:VAL:HG11	2.31	0.45
1:W:38:PRO:HD3	1:W:49:GLN:HE22	1.81	0.45
1:W:73:HIC:HA	1:W:183:ARG:NH1	2.18	0.45
1:W:164:PRO:CG	1:W:174:ALA:CB	2.95	0.45
1:A:164:PRO:CG	1:A:174:ALA:CB	2.95	0.45
1:A:300:SER:HA	1:A:335:ARG:NE	2.32	0.45
1:B:324:THR:HG23	1:D:241:GLU:OE2	2.16	0.45
1:C:167:GLU:OE1	1:E:61:LYS:CD	2.65	0.45
1:D:300:SER:HA	1:D:335:ARG:NE	2.32	0.45
1:E:34:ILE:N	1:E:54:VAL:HG11	2.31	0.45
1:F:33:SER:O	1:F:69:TYR:CD1	2.69	0.45
1:G:34:ILE:N	1:G:54:VAL:HG11	2.31	0.45
1:G:147:ARG:HH21	1:G:147:ARG:HG3	1.80	0.45
1:G:233:SER:HB3	1:G:236:LEU:HG	1.99	0.45
1:H:9:VAL:HG21	1:H:344:SER:HA	1.98	0.45
1:I:180:LEU:CD1	1:I:181:ALA:N	2.78	0.45
1:I:300:SER:HA	1:I:335:ARG:NE	2.32	0.45
1:J:34:ILE:HD13	1:J:67:LEU:CD2	2.46	0.45
1:J:287:ILE:HB	1:L:244:ASP:HB3	1.97	0.45
1:L:300:SER:HA	1:L:335:ARG:NE	2.32	0.45
1:L:357:ILE:HD12	1:L:357:ILE:HA	1.79	0.45
1:L:374:CYS:HB2	1:L:375:PHE:H	1.61	0.45
1:M:43:VAL:C	1:M:44:MET:HG2	2.37	0.45
1:P:9:VAL:HG21	1:P:344:SER:HA	1.98	0.45
1:P:369:ILE:HG22	1:P:370:VAL:H	1.82	0.45
1:Q:34:ILE:N	1:Q:54:VAL:HG11	2.31	0.45
1:Q:236:LEU:CD1	1:Q:237:GLU:CG	2.93	0.45
1:R:7:ALA:HB1	1:R:347:ALA:HB1	1.98	0.45
1:R:369:ILE:HG22	1:R:370:VAL:H	1.82	0.45
1:S:9:VAL:HG21	1:S:344:SER:HA	1.98	0.45
1:S:144:ALA:HB2	1:S:342:GLY:N	2.31	0.45
1:S:300:SER:HA	1:S:335:ARG:NE	2.32	0.45
1:T:233:SER:HB3	1:T:236:LEU:HG	1.99	0.45
1:U:164:PRO:CG	1:U:174:ALA:CB	2.95	0.45
1:U:369:ILE:HG23	1:U:370:VAL:N	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:6:THR:O	1:W:102:PRO:HD2	2.17	0.45
1:W:34:ILE:HD13	1:W:67:LEU:CD2	2.46	0.45
1:W:58:ALA:CB	1:W:65:LEU:CD2	2.90	0.45
1:A:73:HIC:HA	1:A:183:ARG:NH1	2.18	0.44
1:A:167:GLU:OE1	1:C:61:LYS:CD	2.65	0.44
1:C:324:THR:HG23	1:E:241:GLU:OE2	2.16	0.44
1:D:6:THR:O	1:D:102:PRO:HD2	2.17	0.44
1:D:43:VAL:C	1:D:44:MET:HG2	2.37	0.44
1:E:43:VAL:C	1:E:44:MET:HG2	2.37	0.44
1:F:38:PRO:HD3	1:F:49:GLN:HE22	1.81	0.44
1:F:43:VAL:C	1:F:44:MET:HG2	2.37	0.44
1:F:116:ARG:NH1	1:F:375:PHE:HA	2.32	0.44
1:G:7:ALA:HB3	1:G:347:ALA:HB1	1.99	0.44
1:G:43:VAL:C	1:G:44:MET:HG2	2.37	0.44
1:G:287:ILE:HG22	1:G:290:ARG:NH1	2.32	0.44
1:J:43:VAL:C	1:J:44:MET:HG2	2.37	0.44
1:K:43:VAL:C	1:K:44:MET:HG2	2.37	0.44
1:K:300:SER:HA	1:K:335:ARG:NE	2.32	0.44
1:K:369:ILE:HG23	1:K:370:VAL:N	2.30	0.44
1:M:164:PRO:CG	1:M:174:ALA:CB	2.95	0.44
1:N:164:PRO:CG	1:N:174:ALA:CB	2.95	0.44
1:N:287:ILE:HB	1:P:244:ASP:HB3	1.98	0.44
1:N:369:ILE:HG22	1:N:370:VAL:H	1.82	0.44
1:O:116:ARG:NH1	1:O:375:PHE:HA	2.32	0.44
1:O:167:GLU:OE1	1:Q:61:LYS:CD	2.65	0.44
1:P:164:PRO:CG	1:P:174:ALA:CB	2.95	0.44
1:P:167:GLU:OE1	1:R:61:LYS:CD	2.65	0.44
1:Q:34:ILE:HD13	1:Q:67:LEU:CD2	2.46	0.44
1:R:116:ARG:NH1	1:R:375:PHE:HA	2.32	0.44
1:R:133:TYR:CE2	1:R:375:PHE:HB2	2.51	0.44
1:R:167:GLU:OE1	1:T:61:LYS:CD	2.65	0.44
1:S:6:THR:O	1:S:102:PRO:HD2	2.17	0.44
1:S:361:GLU:HB3	1:S:369:ILE:CD1	2.14	0.44
1:U:7:ALA:HB3	1:U:347:ALA:HB1	1.99	0.44
1:U:38:PRO:HD3	1:U:49:GLN:HE22	1.82	0.44
1:V:300:SER:HA	1:V:335:ARG:NE	2.32	0.44
1:W:300:SER:HA	1:W:335:ARG:NE	2.32	0.44
1:W:362:TYR:CE1	1:W:367:PRO:CB	2.99	0.44
1:A:7:ALA:HB1	1:A:347:ALA:HB1	1.98	0.44
1:A:110:LEU:CD1	1:A:177:ARG:NH1	2.80	0.44
1:A:116:ARG:NH1	1:A:375:PHE:HA	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:6:THR:O	1:B:102:PRO:HD2	2.17	0.44
1:B:31:PHE:HA	1:B:32:PRO:HD3	1.66	0.44
1:B:43:VAL:C	1:B:44:MET:HG2	2.37	0.44
1:C:164:PRO:CG	1:C:174:ALA:CB	2.95	0.44
1:C:300:SER:HA	1:C:335:ARG:NE	2.32	0.44
1:D:33:SER:O	1:D:69:TYR:CD1	2.69	0.44
1:D:287:ILE:HB	1:F:244:ASP:HB3	1.98	0.44
1:G:34:ILE:HD13	1:G:67:LEU:CD2	2.46	0.44
1:G:58:ALA:CB	1:G:65:LEU:CD2	2.90	0.44
1:H:6:THR:O	1:H:102:PRO:HD2	2.17	0.44
1:H:43:VAL:C	1:H:44:MET:HG2	2.37	0.44
1:I:287:ILE:HG22	1:I:290:ARG:NH1	2.32	0.44
1:I:362:TYR:CE1	1:I:367:PRO:CB	2.99	0.44
1:J:73:HIC:HA	1:J:183:ARG:NH1	2.18	0.44
1:J:116:ARG:NH1	1:J:375:PHE:HA	2.32	0.44
1:L:144:ALA:HB2	1:L:342:GLY:N	2.31	0.44
1:M:35:VAL:H	1:M:68:LYS:H	1.65	0.44
1:N:167:GLU:OE1	1:P:61:LYS:CD	2.65	0.44
1:N:300:SER:HA	1:N:335:ARG:NE	2.32	0.44
1:O:43:VAL:C	1:O:44:MET:HG2	2.37	0.44
1:O:300:SER:HA	1:O:335:ARG:NE	2.32	0.44
1:P:300:SER:HA	1:P:335:ARG:NE	2.32	0.44
1:Q:35:VAL:H	1:Q:68:LYS:H	1.65	0.44
1:S:34:ILE:HD13	1:S:67:LEU:CD2	2.46	0.44
1:S:167:GLU:OE1	1:U:61:LYS:CD	2.65	0.44
1:T:167:GLU:OE1	1:V:61:LYS:CD	2.65	0.44
1:U:7:ALA:HB1	1:U:347:ALA:HB1	1.98	0.44
1:V:61:LYS:HG2	1:V:64:ILE:CG2	2.45	0.44
1:B:34:ILE:O	1:B:54:VAL:HB	2.18	0.44
1:C:170:ALA:O	1:C:172:PRO:HD3	2.18	0.44
1:D:35:VAL:H	1:D:68:LYS:H	1.65	0.44
1:D:110:LEU:CD1	1:D:177:ARG:NH1	2.80	0.44
1:D:167:GLU:OE1	1:F:61:LYS:CD	2.65	0.44
1:E:6:THR:O	1:E:102:PRO:HD2	2.17	0.44
1:F:6:THR:O	1:F:102:PRO:HD2	2.17	0.44
1:F:35:VAL:H	1:F:68:LYS:H	1.65	0.44
1:F:164:PRO:CG	1:F:174:ALA:CB	2.95	0.44
1:G:34:ILE:O	1:G:54:VAL:HB	2.18	0.44
1:G:110:LEU:CD1	1:G:177:ARG:NH1	2.80	0.44
1:I:43:VAL:C	1:I:44:MET:HG2	2.37	0.44
1:J:34:ILE:O	1:J:54:VAL:HB	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:299:MET:HE1	1:J:304:THR:HB	2.00	0.44
1:K:116:ARG:NH1	1:K:375:PHE:HA	2.32	0.44
1:L:170:ALA:O	1:L:172:PRO:HD3	2.18	0.44
1:L:324:THR:HG23	1:N:241:GLU:OE2	2.16	0.44
1:M:34:ILE:HG22	1:M:35:VAL:H	1.78	0.44
1:M:34:ILE:O	1:M:54:VAL:HB	2.18	0.44
1:M:38:PRO:CG	1:M:49:GLN:NE2	2.79	0.44
1:O:164:PRO:CG	1:O:174:ALA:CB	2.95	0.44
1:P:173:HIS:HE1	1:Q:268:GLY:CA	2.28	0.44
1:Q:34:ILE:O	1:Q:54:VAL:HB	2.18	0.44
1:Q:300:SER:HA	1:Q:335:ARG:NE	2.32	0.44
1:R:233:SER:HB3	1:R:236:LEU:HG	1.99	0.44
1:S:164:PRO:CG	1:S:174:ALA:CB	2.95	0.44
1:T:6:THR:O	1:T:102:PRO:HD2	2.17	0.44
1:V:34:ILE:O	1:V:54:VAL:HB	2.18	0.44
1:V:38:PRO:CG	1:V:49:GLN:NE2	2.79	0.44
1:V:362:TYR:CE1	1:V:367:PRO:CB	2.99	0.44
1:A:34:ILE:O	1:A:54:VAL:HB	2.18	0.44
1:C:110:LEU:CD1	1:C:177:ARG:NH1	2.80	0.44
1:H:34:ILE:HG22	1:H:35:VAL:H	1.78	0.44
1:I:6:THR:O	1:I:102:PRO:HD2	2.17	0.44
1:I:143:TYR:CE2	1:I:346:LEU:HD13	2.51	0.44
1:I:233:SER:HB3	1:I:236:LEU:HG	1.99	0.44
1:I:299:MET:HE1	1:I:304:THR:HB	1.99	0.44
1:J:7:ALA:HB3	1:J:347:ALA:HB1	1.99	0.44
1:J:9:VAL:HG21	1:J:344:SER:HA	1.98	0.44
1:J:151:ILE:O	1:J:297:ASN:HA	2.17	0.44
1:J:369:ILE:HG23	1:J:370:VAL:N	2.30	0.44
1:K:34:ILE:O	1:K:54:VAL:HB	2.18	0.44
1:K:227:MET:HA	1:K:227:MET:HE3	2.00	0.44
1:P:369:ILE:HG23	1:P:370:VAL:N	2.30	0.44
1:Q:148:THR:CG2	1:Q:149:THR:N	2.81	0.44
1:R:357:ILE:HD12	1:R:357:ILE:HA	1.79	0.44
1:U:9:VAL:HG21	1:U:344:SER:HA	1.98	0.44
1:V:7:ALA:HB1	1:V:347:ALA:HB1	1.98	0.44
1:A:287:ILE:HD12	1:C:208:ILE:HD13	1.96	0.44
1:B:34:ILE:CG2	1:B:67:LEU:HD22	2.28	0.44
1:C:34:ILE:HD13	1:C:67:LEU:CD2	2.46	0.44
1:E:34:ILE:O	1:E:54:VAL:HB	2.18	0.44
1:E:110:LEU:CD1	1:E:177:ARG:NH1	2.80	0.44
1:E:180:LEU:CD1	1:E:181:ALA:N	2.78	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:233:SER:HB3	1:F:236:LEU:HG	1.99	0.44
1:H:7:ALA:HB3	1:H:347:ALA:HB1	1.99	0.44
1:H:151:ILE:O	1:H:297:ASN:HA	2.17	0.44
1:I:180:LEU:O	1:I:180:LEU:HG	2.11	0.44
1:M:73:HIC:HA	1:M:183:ARG:NH1	2.18	0.44
1:M:170:ALA:O	1:M:172:PRO:HD3	2.18	0.44
1:O:148:THR:CG2	1:O:149:THR:N	2.81	0.44
1:O:287:ILE:HB	1:Q:244:ASP:HB3	1.97	0.44
1:Q:116:ARG:NH1	1:Q:375:PHE:HA	2.32	0.44
1:Q:233:SER:HB3	1:Q:236:LEU:HG	1.99	0.44
1:R:34:ILE:N	1:R:54:VAL:HG11	2.31	0.44
1:R:34:ILE:O	1:R:54:VAL:HB	2.18	0.44
1:R:298:VAL:CG1	1:R:335:ARG:NH1	2.81	0.44
1:S:34:ILE:N	1:S:54:VAL:HG11	2.31	0.44
1:S:233:SER:HB3	1:S:236:LEU:HG	1.99	0.44
1:U:38:PRO:CG	1:U:49:GLN:NE2	2.79	0.44
1:U:170:ALA:O	1:U:172:PRO:HD3	2.18	0.44
1:V:116:ARG:NH1	1:V:375:PHE:HA	2.32	0.44
1:W:38:PRO:CG	1:W:49:GLN:NE2	2.79	0.44
1:A:298:VAL:CG1	1:A:335:ARG:NH1	2.81	0.44
1:D:233:SER:HB3	1:D:236:LEU:HG	1.99	0.44
1:F:7:ALA:HB3	1:F:347:ALA:HB1	1.99	0.44
1:F:9:VAL:HG21	1:F:344:SER:HA	1.98	0.44
1:F:298:VAL:CG1	1:F:335:ARG:NH1	2.81	0.44
1:F:300:SER:HA	1:F:335:ARG:NE	2.32	0.44
1:G:6:THR:O	1:G:102:PRO:HD2	2.17	0.44
1:G:357:ILE:HD12	1:G:357:ILE:HA	1.78	0.44
1:H:298:VAL:CG1	1:H:335:ARG:NH1	2.81	0.44
1:I:34:ILE:N	1:I:54:VAL:HG11	2.31	0.44
1:J:298:VAL:CG1	1:J:335:ARG:NH1	2.81	0.44
1:K:335:ARG:HA	1:K:335:ARG:HD3	1.39	0.44
1:L:7:ALA:HB3	1:L:347:ALA:HB1	1.99	0.44
1:L:173:HIS:HE1	1:M:268:GLY:CA	2.28	0.44
1:M:116:ARG:NH1	1:M:375:PHE:HA	2.32	0.44
1:M:324:THR:HG23	1:O:241:GLU:OE2	2.17	0.44
1:M:374:CYS:HB2	1:M:375:PHE:H	1.61	0.44
1:N:7:ALA:HB3	1:N:347:ALA:HB1	1.99	0.44
1:N:58:ALA:CB	1:N:65:LEU:CD2	2.90	0.44
1:N:148:THR:CG2	1:N:149:THR:N	2.81	0.44
1:N:170:ALA:O	1:N:172:PRO:HD3	2.18	0.44
1:O:38:PRO:CG	1:O:49:GLN:NE2	2.79	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:298:VAL:CG1	1:O:335:ARG:NH1	2.81	0.44
1:P:7:ALA:HB3	1:P:347:ALA:HB1	1.99	0.44
1:P:34:ILE:O	1:P:54:VAL:HB	2.18	0.44
1:P:298:VAL:CG1	1:P:335:ARG:NH1	2.81	0.44
1:P:361:GLU:HB3	1:P:369:ILE:CD1	2.14	0.44
1:Q:6:THR:O	1:Q:102:PRO:HD2	2.17	0.44
1:Q:151:ILE:O	1:Q:297:ASN:HA	2.18	0.44
1:Q:298:VAL:CG1	1:Q:335:ARG:NH1	2.81	0.44
1:R:7:ALA:HB3	1:R:347:ALA:HB1	1.99	0.44
1:S:227:MET:HA	1:S:227:MET:HE3	1.99	0.44
1:T:38:PRO:HD3	1:T:49:GLN:HE22	1.81	0.44
1:T:151:ILE:O	1:T:297:ASN:HA	2.17	0.44
1:V:6:THR:O	1:V:102:PRO:HD2	2.17	0.44
1:V:180:LEU:CD1	1:V:181:ALA:N	2.78	0.44
1:W:7:ALA:HB1	1:W:347:ALA:HB1	1.98	0.44
1:W:9:VAL:HG21	1:W:344:SER:HA	1.98	0.44
1:W:170:ALA:O	1:W:172:PRO:HD3	2.18	0.44
1:A:170:ALA:O	1:A:172:PRO:HD3	2.18	0.44
1:B:170:ALA:O	1:B:172:PRO:HD3	2.18	0.44
1:D:298:VAL:CG1	1:D:335:ARG:NH1	2.81	0.44
1:F:110:LEU:CD1	1:F:177:ARG:NH1	2.80	0.44
1:F:167:GLU:OE1	1:H:61:LYS:CD	2.65	0.44
1:G:151:ILE:O	1:G:297:ASN:HA	2.18	0.44
1:I:133:TYR:CE2	1:I:375:PHE:HB2	2.51	0.44
1:I:170:ALA:O	1:I:172:PRO:HD3	2.18	0.44
1:I:298:VAL:CG1	1:I:335:ARG:NH1	2.81	0.44
1:J:170:ALA:O	1:J:172:PRO:HD3	2.18	0.44
1:J:287:ILE:HD12	1:L:208:ILE:HD13	1.96	0.44
1:J:300:SER:HA	1:J:335:ARG:NE	2.32	0.44
1:K:34:ILE:HD13	1:K:67:LEU:CD2	2.46	0.44
1:K:298:VAL:CG1	1:K:335:ARG:NH1	2.81	0.44
1:L:6:THR:O	1:L:102:PRO:HD2	2.17	0.44
1:L:148:THR:CG2	1:L:149:THR:N	2.81	0.44
1:L:287:ILE:HD12	1:N:208:ILE:HD13	1.96	0.44
1:M:298:VAL:CG1	1:M:335:ARG:NH1	2.81	0.44
1:N:6:THR:O	1:N:102:PRO:HD2	2.17	0.44
1:P:6:THR:O	1:P:102:PRO:HD2	2.17	0.44
1:Q:38:PRO:CG	1:Q:49:GLN:NE2	2.79	0.44
1:Q:164:PRO:CG	1:Q:174:ALA:CB	2.95	0.44
1:R:151:ILE:O	1:R:297:ASN:HA	2.17	0.44
1:S:34:ILE:O	1:S:54:VAL:HB	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:38:PRO:CG	1:S:49:GLN:NE2	2.79	0.44
1:T:7:ALA:HB1	1:T:347:ALA:HB1	1.98	0.44
1:T:34:ILE:N	1:T:54:VAL:HG11	2.31	0.44
1:T:170:ALA:O	1:T:172:PRO:HD3	2.18	0.44
1:T:180:LEU:O	1:T:180:LEU:HG	2.11	0.44
1:T:298:VAL:CG1	1:T:335:ARG:NH1	2.81	0.44
1:V:110:LEU:CD1	1:V:177:ARG:NH1	2.80	0.44
1:W:34:ILE:O	1:W:54:VAL:HB	2.18	0.44
1:A:34:ILE:HG22	1:A:35:VAL:H	1.78	0.44
1:D:170:ALA:O	1:D:172:PRO:HD3	2.18	0.44
1:E:7:ALA:HB3	1:E:347:ALA:HB1	1.99	0.44
1:E:38:PRO:HD3	1:E:49:GLN:HE22	1.82	0.44
1:E:151:ILE:O	1:E:297:ASN:HA	2.17	0.44
1:E:183:ARG:HE	1:E:183:ARG:HB3	1.58	0.44
1:E:236:LEU:HD11	1:E:237:GLU:HG2	1.97	0.44
1:F:34:ILE:O	1:F:54:VAL:HB	2.18	0.44
1:F:148:THR:CG2	1:F:149:THR:N	2.81	0.44
1:H:35:VAL:H	1:H:68:LYS:H	1.65	0.44
1:H:300:SER:HA	1:H:335:ARG:NE	2.32	0.44
1:J:148:THR:CG2	1:J:149:THR:N	2.81	0.44
1:N:34:ILE:CG2	1:N:67:LEU:CB	2.96	0.44
1:N:180:LEU:CD1	1:N:181:ALA:N	2.78	0.44
1:P:148:THR:CG2	1:P:149:THR:N	2.81	0.44
1:R:300:SER:HA	1:R:335:ARG:NE	2.32	0.44
1:S:151:ILE:O	1:S:297:ASN:HA	2.18	0.44
1:S:298:VAL:CG1	1:S:335:ARG:NH1	2.81	0.44
1:T:7:ALA:HB3	1:T:347:ALA:HB1	1.99	0.44
1:V:7:ALA:HB3	1:V:347:ALA:HB1	1.99	0.44
1:V:151:ILE:O	1:V:297:ASN:HA	2.17	0.44
1:V:369:ILE:HG23	1:V:370:VAL:N	2.30	0.44
1:W:233:SER:HB3	1:W:236:LEU:HG	1.99	0.44
1:B:133:TYR:CE2	1:B:375:PHE:HB2	2.51	0.44
1:B:233:SER:HB3	1:B:236:LEU:HG	1.99	0.44
1:C:151:ILE:O	1:C:297:ASN:HA	2.18	0.44
1:C:298:VAL:CG1	1:C:335:ARG:NH1	2.81	0.44
1:E:39:ARG:NE	1:E:66:THR:CA	2.69	0.44
1:F:8:LEU:CB	1:F:103:THR:HG23	2.48	0.44
1:H:34:ILE:O	1:H:54:VAL:HB	2.18	0.44
1:H:116:ARG:NH1	1:H:375:PHE:HA	2.32	0.44
1:H:233:SER:HB3	1:H:236:LEU:HG	1.99	0.44
1:H:362:TYR:CE1	1:H:367:PRO:CB	2.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:147:ARG:HH21	1:I:147:ARG:HG3	1.80	0.44
1:I:151:ILE:O	1:I:297:ASN:HA	2.18	0.44
1:J:233:SER:HB3	1:J:236:LEU:HG	1.99	0.44
1:K:299:MET:O	1:K:332:PRO:HD2	2.18	0.44
1:L:151:ILE:O	1:L:297:ASN:HA	2.18	0.44
1:L:298:VAL:CG1	1:L:335:ARG:NH1	2.81	0.44
1:M:8:LEU:CB	1:M:103:THR:HG23	2.48	0.44
1:N:357:ILE:HD12	1:N:357:ILE:HA	1.79	0.44
1:O:151:ILE:O	1:O:297:ASN:HA	2.18	0.44
1:O:233:SER:HB3	1:O:236:LEU:HG	1.99	0.44
1:P:34:ILE:CG2	1:P:67:LEU:CB	2.96	0.44
1:P:233:SER:HB3	1:P:236:LEU:HG	1.99	0.44
1:Q:9:VAL:HG21	1:Q:344:SER:HA	1.98	0.44
1:Q:170:ALA:O	1:Q:172:PRO:HD3	2.18	0.44
1:R:6:THR:O	1:R:102:PRO:HD2	2.17	0.44
1:T:8:LEU:CB	1:T:103:THR:HG23	2.48	0.44
1:T:116:ARG:NH1	1:T:375:PHE:HA	2.32	0.44
1:T:300:SER:HA	1:T:335:ARG:NE	2.32	0.44
1:U:167:GLU:OE1	1:W:61:LYS:CD	2.65	0.44
1:U:233:SER:HB3	1:U:236:LEU:HG	1.99	0.44
1:W:7:ALA:HB3	1:W:347:ALA:HB1	1.99	0.44
1:A:349:LEU:HD23	1:A:349:LEU:HA	1.79	0.43
1:A:369:ILE:HG23	1:A:370:VAL:N	2.30	0.43
1:B:298:VAL:CG1	1:B:335:ARG:NH1	2.81	0.43
1:D:7:ALA:HB3	1:D:347:ALA:HB1	1.99	0.43
1:F:34:ILE:HD13	1:F:67:LEU:CD2	2.46	0.43
1:F:151:ILE:O	1:F:297:ASN:HA	2.18	0.43
1:G:170:ALA:O	1:G:172:PRO:HD3	2.18	0.43
1:G:173:HIS:HE1	1:H:268:GLY:CA	2.28	0.43
1:H:110:LEU:CD1	1:H:177:ARG:NH1	2.80	0.43
1:I:324:THR:HG23	1:K:241:GLU:OE2	2.16	0.43
1:L:34:ILE:O	1:L:54:VAL:HB	2.17	0.43
1:L:69:TYR:CD2	1:L:69:TYR:N	2.86	0.43
1:L:180:LEU:CD1	1:L:181:ALA:N	2.78	0.43
1:L:233:SER:HB3	1:L:236:LEU:HG	1.99	0.43
1:M:233:SER:HB3	1:M:236:LEU:HG	1.99	0.43
1:M:300:SER:HA	1:M:335:ARG:NE	2.32	0.43
1:N:34:ILE:O	1:N:54:VAL:HB	2.18	0.43
1:N:64:ILE:CG2	1:N:65:LEU:N	2.81	0.43
1:N:233:SER:HB3	1:N:236:LEU:HG	1.99	0.43
1:N:298:VAL:CG1	1:N:335:ARG:NH1	2.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:8:LEU:CB	1:O:103:THR:HG23	2.48	0.43
1:O:34:ILE:HD13	1:O:67:LEU:CD2	2.46	0.43
1:R:8:LEU:CB	1:R:103:THR:HG23	2.48	0.43
1:R:349:LEU:HD23	1:R:349:LEU:HA	1.79	0.43
1:S:148:THR:CG2	1:S:149:THR:N	2.81	0.43
1:S:349:LEU:HD23	1:S:349:LEU:HA	1.80	0.43
1:U:151:ILE:O	1:U:297:ASN:HA	2.17	0.43
1:U:236:LEU:CD1	1:U:237:GLU:CG	2.93	0.43
1:U:298:VAL:CG1	1:U:335:ARG:NH1	2.81	0.43
1:V:35:VAL:H	1:V:68:LYS:H	1.65	0.43
1:V:298:VAL:CG1	1:V:335:ARG:NH1	2.81	0.43
1:W:298:VAL:CG1	1:W:335:ARG:NH1	2.81	0.43
1:A:6:THR:O	1:A:102:PRO:HD2	2.17	0.43
1:A:324:THR:HG23	1:C:241:GLU:OE2	2.16	0.43
1:B:35:VAL:H	1:B:68:LYS:H	1.65	0.43
1:B:149:THR:HG23	1:B:150:GLY:N	2.34	0.43
1:C:58:ALA:CB	1:C:65:LEU:CD2	2.90	0.43
1:C:64:ILE:CG2	1:C:65:LEU:N	2.81	0.43
1:D:8:LEU:CB	1:D:103:THR:HG23	2.48	0.43
1:D:34:ILE:O	1:D:54:VAL:HB	2.17	0.43
1:E:64:ILE:CG2	1:E:65:LEU:N	2.81	0.43
1:G:298:VAL:CG1	1:G:335:ARG:NH1	2.81	0.43
1:H:64:ILE:CG2	1:H:65:LEU:N	2.81	0.43
1:K:6:THR:O	1:K:102:PRO:HD2	2.17	0.43
1:K:151:ILE:O	1:K:297:ASN:HA	2.18	0.43
1:L:58:ALA:CB	1:L:65:LEU:CD2	2.90	0.43
1:M:180:LEU:O	1:M:180:LEU:HG	2.11	0.43
1:P:39:ARG:NE	1:P:66:THR:CA	2.69	0.43
1:P:324:THR:HG23	1:R:241:GLU:OE2	2.16	0.43
1:P:357:ILE:HD12	1:P:357:ILE:HA	1.79	0.43
1:R:34:ILE:CG2	1:R:67:LEU:CB	2.96	0.43
1:R:148:THR:CG2	1:R:149:THR:N	2.81	0.43
1:S:31:PHE:HA	1:S:32:PRO:HD3	1.66	0.43
1:T:172:PRO:HA	1:T:175:ILE:CD1	2.49	0.43
1:U:69:TYR:CD2	1:U:69:TYR:N	2.87	0.43
1:U:171:LEU:HA	1:U:172:PRO:HD3	1.79	0.43
1:U:362:TYR:CE1	1:U:367:PRO:CB	2.99	0.43
1:V:8:LEU:CB	1:V:103:THR:HG23	2.48	0.43
1:V:299:MET:O	1:V:332:PRO:HD2	2.18	0.43
1:W:69:TYR:N	1:W:69:TYR:CD2	2.87	0.43
1:W:149:THR:HG23	1:W:150:GLY:N	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:34:ILE:O	1:C:54:VAL:HB	2.18	0.43
1:D:149:THR:HG23	1:D:150:GLY:N	2.34	0.43
1:E:172:PRO:HA	1:E:175:ILE:CD1	2.49	0.43
1:G:35:VAL:H	1:G:68:LYS:H	1.65	0.43
1:G:149:THR:HG23	1:G:150:GLY:N	2.34	0.43
1:G:299:MET:O	1:G:332:PRO:HD2	2.18	0.43
1:H:8:LEU:CB	1:H:103:THR:HG23	2.48	0.43
1:J:6:THR:O	1:J:102:PRO:HD2	2.17	0.43
1:J:64:ILE:CG2	1:J:65:LEU:N	2.81	0.43
1:J:69:TYR:CD2	1:J:69:TYR:N	2.86	0.43
1:J:180:LEU:O	1:J:180:LEU:HG	2.11	0.43
1:K:35:VAL:H	1:K:68:LYS:H	1.65	0.43
1:K:180:LEU:CD1	1:K:181:ALA:N	2.78	0.43
1:L:31:PHE:HA	1:L:32:PRO:HD3	1.66	0.43
1:L:34:ILE:CG2	1:L:67:LEU:CB	2.96	0.43
1:L:149:THR:HG23	1:L:150:GLY:N	2.34	0.43
1:M:38:PRO:HD3	1:M:49:GLN:HE22	1.82	0.43
1:M:287:ILE:HD12	1:O:208:ILE:HD13	1.96	0.43
1:N:69:TYR:CD2	1:N:69:TYR:N	2.86	0.43
1:N:149:THR:HG23	1:N:150:GLY:N	2.34	0.43
1:N:324:THR:HG23	1:P:241:GLU:OE2	2.16	0.43
1:O:6:THR:O	1:O:102:PRO:HD2	2.17	0.43
1:P:172:PRO:HA	1:P:175:ILE:CD1	2.49	0.43
1:Q:31:PHE:HA	1:Q:32:PRO:HD3	1.66	0.43
1:R:170:ALA:O	1:R:172:PRO:HD3	2.18	0.43
1:S:64:ILE:CG2	1:S:65:LEU:N	2.81	0.43
1:S:69:TYR:CD2	1:S:69:TYR:N	2.87	0.43
1:S:170:ALA:O	1:S:172:PRO:HD3	2.18	0.43
1:T:64:ILE:CG2	1:T:65:LEU:N	2.81	0.43
1:T:110:LEU:CD1	1:T:177:ARG:NH1	2.80	0.43
1:W:35:VAL:H	1:W:68:LYS:H	1.65	0.43
1:B:7:ALA:HB3	1:B:347:ALA:HB1	1.99	0.43
1:B:236:LEU:HD11	1:B:237:GLU:HG2	1.96	0.43
1:C:6:THR:O	1:C:102:PRO:HD2	2.17	0.43
1:C:31:PHE:HA	1:C:32:PRO:HD3	1.66	0.43
1:E:149:THR:HG23	1:E:150:GLY:N	2.34	0.43
1:F:170:ALA:O	1:F:172:PRO:HD3	2.18	0.43
1:I:148:THR:CG2	1:I:149:THR:N	2.81	0.43
1:K:324:THR:HG23	1:M:241:GLU:OE2	2.16	0.43
1:M:151:ILE:O	1:M:297:ASN:HA	2.18	0.43
1:N:172:PRO:HA	1:N:175:ILE:CD1	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:170:ALA:O	1:O:172:PRO:HD3	2.18	0.43
1:P:136:ILE:O	1:P:139:VAL:HB	2.19	0.43
1:P:151:ILE:O	1:P:297:ASN:HA	2.18	0.43
1:Q:8:LEU:CB	1:Q:103:THR:HG23	2.48	0.43
1:Q:69:TYR:N	1:Q:69:TYR:CD2	2.87	0.43
1:R:31:PHE:HA	1:R:32:PRO:HD3	1.66	0.43
1:U:34:ILE:HD13	1:U:67:LEU:CD2	2.46	0.43
1:W:107:GLU:O	1:W:137:GLN:HG3	2.19	0.43
1:W:151:ILE:O	1:W:297:ASN:HA	2.17	0.43
1:A:8:LEU:CB	1:A:103:THR:HG23	2.48	0.43
1:A:58:ALA:CB	1:A:65:LEU:CD2	2.90	0.43
1:A:149:THR:HG23	1:A:150:GLY:N	2.34	0.43
1:B:148:THR:CG2	1:B:149:THR:N	2.81	0.43
1:C:8:LEU:CB	1:C:103:THR:HG23	2.48	0.43
1:C:136:ILE:O	1:C:139:VAL:HB	2.19	0.43
1:C:172:PRO:HA	1:C:175:ILE:CD1	2.49	0.43
1:D:133:TYR:CE2	1:D:375:PHE:HB2	2.51	0.43
1:E:104:LEU:HD13	1:E:347:ALA:HB2	2.01	0.43
1:E:170:ALA:O	1:E:172:PRO:HD3	2.18	0.43
1:F:34:ILE:HG22	1:F:35:VAL:H	1.78	0.43
1:G:172:PRO:HA	1:G:175:ILE:CD1	2.49	0.43
1:H:148:THR:CG2	1:H:149:THR:N	2.81	0.43
1:I:34:ILE:O	1:I:54:VAL:HB	2.18	0.43
1:I:149:THR:HG23	1:I:150:GLY:N	2.34	0.43
1:J:110:LEU:CD1	1:J:177:ARG:NH1	2.80	0.43
1:J:362:TYR:CE1	1:J:367:PRO:CB	2.99	0.43
1:K:149:THR:HG23	1:K:150:GLY:N	2.34	0.43
1:K:170:ALA:O	1:K:172:PRO:HD3	2.18	0.43
1:K:236:LEU:HD11	1:K:237:GLU:HG2	1.96	0.43
1:M:6:THR:O	1:M:102:PRO:HD2	2.17	0.43
1:M:149:THR:HG23	1:M:150:GLY:N	2.34	0.43
1:M:299:MET:O	1:M:332:PRO:HD2	2.18	0.43
1:N:38:PRO:HD3	1:N:49:GLN:HE22	1.81	0.43
1:N:151:ILE:O	1:N:297:ASN:HA	2.18	0.43
1:O:172:PRO:HA	1:O:175:ILE:CD1	2.49	0.43
1:O:299:MET:O	1:O:332:PRO:HD2	2.18	0.43
1:P:8:LEU:CB	1:P:103:THR:HG23	2.48	0.43
1:R:172:PRO:HA	1:R:175:ILE:CD1	2.49	0.43
1:S:35:VAL:H	1:S:68:LYS:H	1.65	0.43
1:T:299:MET:O	1:T:332:PRO:HD2	2.18	0.43
1:V:31:PHE:HA	1:V:32:PRO:HD3	1.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:173:HIS:HE1	1:W:268:GLY:CA	2.28	0.43
1:A:39:ARG:NE	1:A:66:THR:CA	2.69	0.43
1:A:136:ILE:O	1:A:139:VAL:HB	2.19	0.43
1:B:34:ILE:HD13	1:B:67:LEU:CD2	2.46	0.43
1:C:7:ALA:HB3	1:C:347:ALA:HB1	1.99	0.43
1:C:104:LEU:HD13	1:C:347:ALA:HB2	2.01	0.43
1:D:151:ILE:O	1:D:297:ASN:HA	2.18	0.43
1:E:35:VAL:H	1:E:68:LYS:H	1.65	0.43
1:E:136:ILE:O	1:E:139:VAL:HB	2.19	0.43
1:E:227:MET:HA	1:E:227:MET:HE3	2.01	0.43
1:E:298:VAL:CG1	1:E:335:ARG:NH1	2.81	0.43
1:E:374:CYS:HB2	1:E:375:PHE:H	1.61	0.43
1:F:362:TYR:CE1	1:F:367:PRO:CB	2.99	0.43
1:G:299:MET:HE1	1:G:304:THR:HB	2.01	0.43
1:H:69:TYR:CD2	1:H:69:TYR:N	2.87	0.43
1:H:104:LEU:HD13	1:H:347:ALA:HB2	2.01	0.43
1:I:2:GLU:HB3	1:I:3:ASP:H	1.66	0.43
1:J:104:LEU:HD13	1:J:347:ALA:HB2	2.01	0.43
1:K:148:THR:CG2	1:K:149:THR:N	2.81	0.43
1:K:233:SER:HB3	1:K:236:LEU:HG	1.99	0.43
1:K:362:TYR:CE1	1:K:367:PRO:CB	2.99	0.43
1:M:172:PRO:HA	1:M:175:ILE:CD1	2.49	0.43
1:N:136:ILE:O	1:N:139:VAL:HB	2.19	0.43
1:O:34:ILE:O	1:O:54:VAL:HB	2.18	0.43
1:O:69:TYR:N	1:O:69:TYR:CD2	2.86	0.43
1:P:104:LEU:HD13	1:P:347:ALA:HB2	2.01	0.43
1:P:149:THR:HG23	1:P:150:GLY:N	2.34	0.43
1:Q:172:PRO:HA	1:Q:175:ILE:CD1	2.49	0.43
1:R:64:ILE:CG2	1:R:65:LEU:N	2.81	0.43
1:R:136:ILE:O	1:R:139:VAL:HB	2.19	0.43
1:T:34:ILE:O	1:T:54:VAL:HB	2.18	0.43
1:T:133:TYR:CE2	1:T:375:PHE:HB2	2.51	0.43
1:T:149:THR:HG23	1:T:150:GLY:N	2.34	0.43
1:V:149:THR:HG23	1:V:150:GLY:N	2.34	0.43
1:V:172:PRO:HA	1:V:175:ILE:CD1	2.49	0.43
1:W:64:ILE:CG2	1:W:65:LEU:N	2.82	0.43
1:W:104:LEU:HD13	1:W:347:ALA:HB2	2.01	0.43
1:A:167:GLU:CD	1:C:61:LYS:CE	2.85	0.43
1:B:69:TYR:CD2	1:B:69:TYR:N	2.86	0.43
1:C:149:THR:HG23	1:C:150:GLY:N	2.34	0.43
1:G:369:ILE:HG23	1:G:370:VAL:N	2.30	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:31:PHE:HA	1:H:32:PRO:HD3	1.66	0.43
1:H:107:GLU:O	1:H:137:GLN:HG3	2.19	0.43
1:J:8:LEU:CB	1:J:103:THR:HG23	2.48	0.43
1:J:149:THR:HG23	1:J:150:GLY:N	2.34	0.43
1:J:180:LEU:CD1	1:J:181:ALA:N	2.78	0.43
1:L:104:LEU:HD13	1:L:347:ALA:HB2	2.01	0.43
1:L:107:GLU:O	1:L:137:GLN:HG3	2.19	0.43
1:L:172:PRO:HA	1:L:175:ILE:CD1	2.49	0.43
1:N:335:ARG:HD3	1:N:335:ARG:HA	1.39	0.43
1:Q:65:LEU:HD13	1:Q:67:LEU:HD23	2.01	0.43
1:R:104:LEU:HD13	1:R:347:ALA:HB2	2.01	0.43
1:R:110:LEU:CD1	1:R:177:ARG:NH1	2.80	0.43
1:R:149:THR:HG23	1:R:150:GLY:N	2.34	0.43
1:S:172:PRO:HA	1:S:175:ILE:CD1	2.49	0.43
1:T:148:THR:CG2	1:T:149:THR:N	2.81	0.43
1:U:34:ILE:O	1:U:54:VAL:HB	2.18	0.43
1:U:35:VAL:H	1:U:68:LYS:H	1.65	0.43
1:U:64:ILE:CG2	1:U:65:LEU:N	2.81	0.43
1:U:149:THR:HG23	1:U:150:GLY:N	2.34	0.43
1:U:172:PRO:HA	1:U:175:ILE:CD1	2.49	0.43
1:W:8:LEU:CB	1:W:103:THR:HG23	2.48	0.43
1:W:172:PRO:HA	1:W:175:ILE:CD1	2.49	0.43
1:A:104:LEU:HD13	1:A:347:ALA:HB2	2.01	0.43
1:A:133:TYR:CE2	1:A:375:PHE:HB2	2.51	0.43
1:B:64:ILE:CG2	1:B:65:LEU:N	2.81	0.43
1:B:65:LEU:HD13	1:B:67:LEU:HD23	2.01	0.43
1:C:35:VAL:H	1:C:68:LYS:H	1.65	0.43
1:F:107:GLU:O	1:F:137:GLN:HG3	2.19	0.43
1:F:236:LEU:HD11	1:F:237:GLU:HG2	1.96	0.43
1:H:39:ARG:NE	1:H:66:THR:CA	2.69	0.43
1:H:170:ALA:O	1:H:172:PRO:HD3	2.18	0.43
1:H:299:MET:O	1:H:332:PRO:HD2	2.18	0.43
1:I:31:PHE:HA	1:I:32:PRO:HD3	1.66	0.43
1:I:64:ILE:CG2	1:I:65:LEU:N	2.81	0.43
1:J:39:ARG:NE	1:J:66:THR:CA	2.69	0.43
1:J:299:MET:O	1:J:332:PRO:HD2	2.18	0.43
1:K:64:ILE:CG2	1:K:65:LEU:N	2.81	0.43
1:K:133:TYR:CE2	1:K:375:PHE:HB2	2.51	0.43
1:O:65:LEU:HD13	1:O:67:LEU:HD23	2.01	0.43
1:P:69:TYR:CD2	1:P:69:TYR:N	2.86	0.43
1:Q:34:ILE:CG2	1:Q:67:LEU:CB	2.96	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:64:ILE:CG2	1:Q:65:LEU:N	2.81	0.43
1:T:39:ARG:NE	1:T:66:THR:CA	2.69	0.43
1:T:104:LEU:HD13	1:T:347:ALA:HB2	2.01	0.43
1:T:136:ILE:O	1:T:139:VAL:HB	2.19	0.43
1:U:104:LEU:HD13	1:U:347:ALA:HB2	2.01	0.43
1:V:64:ILE:CG2	1:V:65:LEU:N	2.81	0.43
1:V:72:GLU:O	1:V:183:ARG:NH2	2.52	0.43
1:V:149:THR:CG2	1:V:150:GLY:N	2.82	0.43
1:W:227:MET:HA	1:W:227:MET:HE3	2.00	0.43
1:A:151:ILE:O	1:A:297:ASN:HA	2.18	0.43
1:A:172:PRO:HA	1:A:175:ILE:CD1	2.49	0.43
1:B:151:ILE:O	1:B:297:ASN:HA	2.17	0.43
1:B:178:LEU:HG	1:B:180:LEU:H	1.84	0.43
1:C:107:GLU:O	1:C:137:GLN:HG3	2.19	0.43
1:D:64:ILE:CG2	1:D:65:LEU:N	2.81	0.43
1:D:349:LEU:HD23	1:D:349:LEU:HA	1.80	0.43
1:E:8:LEU:CB	1:E:103:THR:HG23	2.48	0.43
1:E:34:ILE:CG2	1:E:67:LEU:CB	2.96	0.43
1:E:178:LEU:HG	1:E:180:LEU:H	1.84	0.43
1:G:2:GLU:HB3	1:G:3:ASP:H	1.66	0.43
1:G:34:ILE:CG2	1:G:67:LEU:CB	2.96	0.43
1:G:72:GLU:O	1:G:183:ARG:NH2	2.52	0.43
1:G:136:ILE:O	1:G:139:VAL:HB	2.19	0.43
1:G:227:MET:HA	1:G:227:MET:HE3	2.01	0.43
1:I:172:PRO:HA	1:I:175:ILE:CD1	2.49	0.43
1:L:110:LEU:CD1	1:L:177:ARG:NH1	2.80	0.43
1:L:136:ILE:O	1:L:139:VAL:HB	2.19	0.43
1:M:236:LEU:HD11	1:M:237:GLU:HG2	1.96	0.43
1:M:357:ILE:HD12	1:M:357:ILE:HA	1.79	0.43
1:N:107:GLU:O	1:N:137:GLN:HG3	2.19	0.43
1:O:236:LEU:HD11	1:O:237:GLU:HG2	1.96	0.43
1:P:35:VAL:H	1:P:68:LYS:H	1.65	0.43
1:P:110:LEU:CD1	1:P:177:ARG:NH1	2.80	0.43
1:R:149:THR:CG2	1:R:150:GLY:N	2.82	0.43
1:S:65:LEU:HD13	1:S:67:LEU:HD23	2.01	0.43
1:W:299:MET:O	1:W:332:PRO:HD2	2.18	0.43
1:A:35:VAL:H	1:A:68:LYS:H	1.65	0.43
1:B:374:CYS:HB2	1:B:375:PHE:H	1.62	0.43
1:C:72:GLU:O	1:C:183:ARG:NH2	2.52	0.43
1:D:65:LEU:HD13	1:D:67:LEU:HD23	2.01	0.43
1:D:172:PRO:HA	1:D:175:ILE:CD1	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:236:LEU:HD11	1:D:237:GLU:HG2	1.96	0.43
1:E:105:LEU:HD11	1:E:123:MET:HG3	2.01	0.43
1:F:65:LEU:HD13	1:F:67:LEU:HD23	2.01	0.43
1:F:236:LEU:CD1	1:F:237:GLU:CG	2.93	0.43
1:J:172:PRO:HA	1:J:175:ILE:CD1	2.49	0.43
1:K:72:GLU:O	1:K:183:ARG:NH2	2.52	0.43
1:K:107:GLU:O	1:K:137:GLN:HG3	2.19	0.43
1:K:172:PRO:HA	1:K:175:ILE:CD1	2.49	0.43
1:K:178:LEU:HG	1:K:180:LEU:H	1.84	0.43
1:L:34:ILE:HD13	1:L:67:LEU:CD2	2.46	0.43
1:L:35:VAL:H	1:L:68:LYS:H	1.65	0.43
1:L:64:ILE:CG2	1:L:65:LEU:N	2.81	0.43
1:L:106:THR:HG22	1:L:140:LEU:HD11	2.01	0.43
1:L:167:GLU:CD	1:N:61:LYS:CE	2.85	0.43
1:M:107:GLU:O	1:M:137:GLN:HG3	2.19	0.43
1:N:35:VAL:H	1:N:68:LYS:H	1.65	0.43
1:N:104:LEU:HD13	1:N:347:ALA:HB2	2.01	0.43
1:N:110:LEU:CD1	1:N:177:ARG:NH1	2.80	0.43
1:P:105:LEU:HD11	1:P:123:MET:HG3	2.01	0.43
1:P:170:ALA:O	1:P:172:PRO:HD3	2.18	0.43
1:Q:107:GLU:O	1:Q:137:GLN:HG3	2.19	0.43
1:Q:178:LEU:HG	1:Q:180:LEU:H	1.84	0.43
1:Q:236:LEU:HD11	1:Q:237:GLU:HG2	1.96	0.43
1:Q:299:MET:O	1:Q:332:PRO:HD2	2.18	0.43
1:R:35:VAL:H	1:R:68:LYS:H	1.65	0.43
1:R:72:GLU:O	1:R:183:ARG:NH2	2.52	0.43
1:R:299:MET:O	1:R:332:PRO:HD2	2.18	0.43
1:U:8:LEU:CB	1:U:103:THR:HG23	2.48	0.43
1:U:34:ILE:HG23	1:U:67:LEU:HB3	2.01	0.43
1:V:39:ARG:NE	1:V:66:THR:CA	2.69	0.43
1:W:106:THR:HG22	1:W:140:LEU:HD11	2.01	0.43
1:W:148:THR:CG2	1:W:149:THR:N	2.81	0.43
1:A:7:ALA:HB3	1:A:347:ALA:HB1	1.99	0.42
1:A:106:THR:HG22	1:A:140:LEU:HD11	2.01	0.42
1:A:107:GLU:O	1:A:137:GLN:HG3	2.19	0.42
1:A:227:MET:HA	1:A:227:MET:HE3	2.01	0.42
1:A:299:MET:O	1:A:332:PRO:HD2	2.18	0.42
1:B:172:PRO:HA	1:B:175:ILE:CD1	2.49	0.42
1:B:227:MET:HA	1:B:227:MET:HE3	2.01	0.42
1:D:110:LEU:CD1	1:D:177:ARG:HH11	2.32	0.42
1:D:299:MET:O	1:D:332:PRO:HD2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:180:LEU:O	1:E:180:LEU:HG	2.11	0.42
1:E:299:MET:O	1:E:332:PRO:HD2	2.18	0.42
1:F:69:TYR:CD2	1:F:69:TYR:N	2.86	0.42
1:F:133:TYR:CE2	1:F:375:PHE:HB2	2.51	0.42
1:F:149:THR:HG23	1:F:150:GLY:N	2.34	0.42
1:F:172:PRO:HA	1:F:175:ILE:CD1	2.49	0.42
1:G:104:LEU:HD13	1:G:347:ALA:HB2	2.01	0.42
1:G:148:THR:CG2	1:G:149:THR:N	2.81	0.42
1:I:35:VAL:H	1:I:68:LYS:H	1.65	0.42
1:I:105:LEU:HD11	1:I:123:MET:HG3	2.01	0.42
1:K:105:LEU:HD11	1:K:123:MET:HG3	2.01	0.42
1:L:105:LEU:HD11	1:L:123:MET:HG3	2.01	0.42
1:L:299:MET:O	1:L:332:PRO:HD2	2.18	0.42
1:N:105:LEU:HD11	1:N:123:MET:HG3	2.01	0.42
1:N:106:THR:HG22	1:N:140:LEU:HD11	2.01	0.42
1:O:167:GLU:CD	1:Q:61:LYS:CE	2.85	0.42
1:Q:167:GLU:OE1	1:S:61:LYS:HE2	2.19	0.42
1:S:136:ILE:O	1:S:139:VAL:HB	2.19	0.42
1:S:167:GLU:CD	1:U:61:LYS:CE	2.85	0.42
1:T:178:LEU:HG	1:T:180:LEU:H	1.84	0.42
1:V:2:GLU:HB3	1:V:3:ASP:H	1.66	0.42
1:V:105:LEU:HD11	1:V:123:MET:HG3	2.01	0.42
1:V:170:ALA:O	1:V:172:PRO:HD3	2.18	0.42
1:W:34:ILE:HG23	1:W:67:LEU:HB3	2.02	0.42
1:W:105:LEU:HD11	1:W:123:MET:HG3	2.01	0.42
1:B:173:HIS:HE1	1:C:268:GLY:CA	2.28	0.42
1:C:105:LEU:HD11	1:C:123:MET:HG3	2.01	0.42
1:C:299:MET:O	1:C:332:PRO:HD2	2.18	0.42
1:C:335:ARG:HD3	1:C:335:ARG:HA	1.39	0.42
1:D:69:TYR:CD2	1:D:69:TYR:N	2.86	0.42
1:F:64:ILE:CG2	1:F:65:LEU:N	2.81	0.42
1:F:104:LEU:HD13	1:F:347:ALA:HB2	2.01	0.42
1:G:69:TYR:N	1:G:69:TYR:CD2	2.87	0.42
1:G:149:THR:CG2	1:G:150:GLY:N	2.82	0.42
1:H:167:GLU:OE1	1:J:64:ILE:HD13	2.19	0.42
1:H:172:PRO:HA	1:H:175:ILE:CD1	2.49	0.42
1:I:107:GLU:O	1:I:137:GLN:HG3	2.19	0.42
1:I:136:ILE:O	1:I:139:VAL:HB	2.19	0.42
1:J:34:ILE:CG2	1:J:67:LEU:CB	2.96	0.42
1:J:49:GLN:HG3	1:J:50:LYS:N	2.20	0.42
1:J:105:LEU:HD11	1:J:123:MET:HG3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:180:LEU:HD12	1:J:181:ALA:CA	2.50	0.42
1:K:167:GLU:OE1	1:M:64:ILE:HD13	2.19	0.42
1:K:349:LEU:HD23	1:K:349:LEU:HA	1.79	0.42
1:L:8:LEU:N	1:L:102:PRO:O	2.48	0.42
1:L:178:LEU:HG	1:L:180:LEU:H	1.84	0.42
1:M:65:LEU:HD13	1:M:67:LEU:HD23	2.01	0.42
1:M:136:ILE:O	1:M:139:VAL:HB	2.19	0.42
1:N:8:LEU:CB	1:N:103:THR:HG23	2.48	0.42
1:N:299:MET:O	1:N:332:PRO:HD2	2.18	0.42
1:O:107:GLU:O	1:O:137:GLN:HG3	2.19	0.42
1:O:362:TYR:CE1	1:O:367:PRO:CB	2.99	0.42
1:Q:287:ILE:HD12	1:S:208:ILE:HD13	1.96	0.42
1:Q:349:LEU:HD23	1:Q:349:LEU:HA	1.80	0.42
1:S:8:LEU:CB	1:S:103:THR:HG23	2.48	0.42
1:S:104:LEU:HD13	1:S:347:ALA:HB2	2.01	0.42
1:U:106:THR:HG22	1:U:140:LEU:HD11	2.01	0.42
1:U:107:GLU:O	1:U:137:GLN:HG3	2.19	0.42
1:U:110:LEU:CD1	1:U:177:ARG:HH11	2.32	0.42
1:U:180:LEU:O	1:U:180:LEU:HG	2.11	0.42
1:U:299:MET:HE1	1:U:304:THR:HB	2.01	0.42
1:V:136:ILE:O	1:V:139:VAL:HB	2.19	0.42
1:A:167:GLU:OE1	1:C:61:LYS:HE2	2.19	0.42
1:C:34:ILE:CG2	1:C:67:LEU:CB	2.96	0.42
1:C:149:THR:CG2	1:C:150:GLY:N	2.82	0.42
1:D:44:MET:CG	1:D:45:VAL:N	2.75	0.42
1:D:104:LEU:HD13	1:D:347:ALA:HB2	2.01	0.42
1:D:178:LEU:HG	1:D:180:LEU:H	1.84	0.42
1:F:135:ALA:CB	1:F:140:LEU:HD21	2.49	0.42
1:F:136:ILE:O	1:F:139:VAL:HB	2.19	0.42
1:G:44:MET:CG	1:G:45:VAL:H	2.18	0.42
1:G:167:GLU:OE1	1:I:64:ILE:HD13	2.19	0.42
1:H:72:GLU:O	1:H:183:ARG:NH2	2.52	0.42
1:H:135:ALA:CB	1:H:140:LEU:HD21	2.49	0.42
1:H:149:THR:HG23	1:H:150:GLY:N	2.34	0.42
1:H:178:LEU:HG	1:H:180:LEU:H	1.84	0.42
1:I:34:ILE:CG2	1:I:67:LEU:CB	2.96	0.42
1:I:69:TYR:CD2	1:I:69:TYR:N	2.87	0.42
1:I:72:GLU:O	1:I:183:ARG:NH2	2.52	0.42
1:I:374:CYS:HB2	1:I:375:PHE:H	1.62	0.42
1:J:106:THR:HG22	1:J:140:LEU:HD11	2.01	0.42
1:J:136:ILE:O	1:J:139:VAL:HB	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:69:TYR:CD2	1:K:69:TYR:N	2.86	0.42
1:L:180:LEU:HD12	1:L:181:ALA:CA	2.50	0.42
1:L:227:MET:HA	1:L:227:MET:HE3	2.01	0.42
1:M:64:ILE:CG2	1:M:65:LEU:N	2.81	0.42
1:N:34:ILE:HG23	1:N:67:LEU:HB3	2.01	0.42
1:N:180:LEU:HD12	1:N:181:ALA:CA	2.50	0.42
1:Q:104:LEU:HD13	1:Q:347:ALA:HB2	2.01	0.42
1:R:105:LEU:HD11	1:R:123:MET:HG3	2.01	0.42
1:R:180:LEU:HD12	1:R:181:ALA:CA	2.50	0.42
1:T:69:TYR:N	1:T:69:TYR:CD2	2.86	0.42
1:T:167:GLU:OE1	1:V:64:ILE:HD13	2.19	0.42
1:U:105:LEU:HD11	1:U:123:MET:HG3	2.01	0.42
1:U:178:LEU:HG	1:U:180:LEU:H	1.84	0.42
1:V:148:THR:CG2	1:V:149:THR:N	2.81	0.42
1:W:31:PHE:HA	1:W:32:PRO:HD3	1.66	0.42
1:A:105:LEU:HD11	1:A:123:MET:HG3	2.01	0.42
1:B:180:LEU:O	1:B:180:LEU:HG	2.11	0.42
1:C:106:THR:HG22	1:C:140:LEU:HD11	2.01	0.42
1:D:149:THR:CG2	1:D:150:GLY:N	2.82	0.42
1:F:178:LEU:HG	1:F:180:LEU:H	1.84	0.42
1:G:34:ILE:HG23	1:G:67:LEU:HB3	2.02	0.42
1:G:105:LEU:HD11	1:G:123:MET:HG3	2.01	0.42
1:G:107:GLU:O	1:G:137:GLN:HG3	2.19	0.42
1:H:180:LEU:HD12	1:H:181:ALA:CA	2.50	0.42
1:I:104:LEU:HD13	1:I:347:ALA:HB2	2.01	0.42
1:I:299:MET:O	1:I:332:PRO:HD2	2.18	0.42
1:J:110:LEU:CD1	1:J:177:ARG:HH11	2.32	0.42
1:K:73:HIC:HA	1:K:183:ARG:NH1	2.18	0.42
1:L:8:LEU:CB	1:L:103:THR:HG23	2.48	0.42
1:M:148:THR:CG2	1:M:149:THR:N	2.81	0.42
1:M:167:GLU:OE1	1:O:64:ILE:HD13	2.19	0.42
1:M:173:HIS:HE1	1:N:268:GLY:CA	2.28	0.42
1:M:362:TYR:CE1	1:M:367:PRO:CB	2.99	0.42
1:N:178:LEU:HG	1:N:180:LEU:H	1.84	0.42
1:O:110:LEU:CD1	1:O:177:ARG:HH11	2.32	0.42
1:P:180:LEU:HD12	1:P:181:ALA:CA	2.50	0.42
1:Q:362:TYR:CE1	1:Q:367:PRO:CB	2.99	0.42
1:R:107:GLU:O	1:R:137:GLN:HG3	2.19	0.42
1:S:34:ILE:HG23	1:S:67:LEU:HB3	2.01	0.42
1:S:72:GLU:O	1:S:183:ARG:NH2	2.52	0.42
1:S:178:LEU:HG	1:S:180:LEU:H	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:105:LEU:HD11	1:T:123:MET:HG3	2.01	0.42
1:U:65:LEU:HD13	1:U:67:LEU:HD23	2.01	0.42
1:V:44:MET:CG	1:V:45:VAL:H	2.18	0.42
1:W:72:GLU:O	1:W:183:ARG:NH2	2.52	0.42
1:W:136:ILE:O	1:W:139:VAL:HB	2.19	0.42
1:W:178:LEU:HG	1:W:180:LEU:H	1.85	0.42
1:A:374:CYS:HB2	1:A:375:PHE:H	1.61	0.42
1:B:34:ILE:CG2	1:B:67:LEU:CB	2.96	0.42
1:B:34:ILE:HG23	1:B:67:LEU:HB3	2.02	0.42
1:B:104:LEU:HD13	1:B:347:ALA:HB2	2.01	0.42
1:C:167:GLU:OE1	1:E:61:LYS:HE2	2.20	0.42
1:C:300:SER:HA	1:C:335:ARG:CD	2.50	0.42
1:D:136:ILE:O	1:D:139:VAL:HB	2.19	0.42
1:E:34:ILE:HG23	1:E:67:LEU:HB3	2.01	0.42
1:E:65:LEU:HD13	1:E:67:LEU:HD23	2.01	0.42
1:E:300:SER:HA	1:E:335:ARG:CD	2.50	0.42
1:F:167:GLU:OE1	1:H:64:ILE:HD13	2.19	0.42
1:H:105:LEU:HD11	1:H:123:MET:HG3	2.01	0.42
1:I:335:ARG:HA	1:I:335:ARG:HD3	1.39	0.42
1:K:104:LEU:HD13	1:K:347:ALA:HB2	2.01	0.42
1:L:34:ILE:HG23	1:L:67:LEU:HB3	2.01	0.42
1:L:73:HIC:HA	1:L:183:ARG:NH1	2.18	0.42
1:M:2:GLU:HB3	1:M:3:ASP:H	1.65	0.42
1:M:72:GLU:O	1:M:183:ARG:NH2	2.52	0.42
1:N:72:GLU:O	1:N:183:ARG:NH2	2.52	0.42
1:O:72:GLU:O	1:O:183:ARG:NH2	2.52	0.42
1:O:105:LEU:HD11	1:O:123:MET:HG3	2.01	0.42
1:P:72:GLU:O	1:P:183:ARG:NH2	2.52	0.42
1:P:374:CYS:HB2	1:P:375:PHE:H	1.61	0.42
1:Q:110:LEU:CD1	1:Q:177:ARG:HH11	2.32	0.42
1:Q:136:ILE:O	1:Q:139:VAL:HB	2.19	0.42
1:Q:180:LEU:O	1:Q:180:LEU:HG	2.11	0.42
1:R:69:TYR:CD2	1:R:69:TYR:N	2.86	0.42
1:R:167:GLU:OE1	1:T:64:ILE:HD13	2.19	0.42
1:R:178:LEU:HG	1:R:180:LEU:H	1.84	0.42
1:S:107:GLU:O	1:S:137:GLN:HG3	2.19	0.42
1:S:149:THR:HG23	1:S:150:GLY:N	2.34	0.42
1:S:167:GLU:OE1	1:U:64:ILE:HD13	2.19	0.42
1:S:167:GLU:OE1	1:U:61:LYS:HE2	2.20	0.42
1:T:72:GLU:O	1:T:183:ARG:NH2	2.52	0.42
1:T:107:GLU:O	1:T:137:GLN:HG3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:180:LEU:HD12	1:T:181:ALA:CA	2.50	0.42
1:U:167:GLU:OE1	1:W:61:LYS:HE2	2.20	0.42
1:U:183:ARG:HE	1:U:183:ARG:HB3	1.58	0.42
1:V:107:GLU:O	1:V:137:GLN:HG3	2.19	0.42
1:W:135:ALA:CB	1:W:140:LEU:HD21	2.50	0.42
1:W:180:LEU:CD1	1:W:181:ALA:N	2.78	0.42
1:A:64:ILE:CG2	1:A:65:LEU:N	2.82	0.42
1:A:121:GLN:HG3	1:A:362:TYR:OH	2.20	0.42
1:A:178:LEU:HG	1:A:180:LEU:H	1.84	0.42
1:B:167:GLU:OE1	1:D:61:LYS:HE2	2.19	0.42
1:B:299:MET:O	1:B:332:PRO:HD2	2.18	0.42
1:C:178:LEU:HG	1:C:180:LEU:H	1.84	0.42
1:D:105:LEU:HD11	1:D:123:MET:HG3	2.01	0.42
1:D:106:THR:HG22	1:D:140:LEU:HD11	2.01	0.42
1:D:148:THR:CG2	1:D:149:THR:N	2.81	0.42
1:E:357:ILE:HD12	1:E:357:ILE:HA	1.78	0.42
1:F:299:MET:O	1:F:332:PRO:HD2	2.18	0.42
1:G:8:LEU:CB	1:G:103:THR:HG23	2.48	0.42
1:G:64:ILE:CG2	1:G:65:LEU:N	2.81	0.42
1:H:65:LEU:HD13	1:H:67:LEU:HD23	2.01	0.42
1:H:110:LEU:CD1	1:H:177:ARG:HH11	2.32	0.42
1:I:34:ILE:HG23	1:I:67:LEU:HB3	2.02	0.42
1:I:180:LEU:HD12	1:I:181:ALA:CA	2.50	0.42
1:K:65:LEU:HD13	1:K:67:LEU:HD23	2.01	0.42
1:K:180:LEU:HD12	1:K:181:ALA:CA	2.50	0.42
1:L:300:SER:HA	1:L:335:ARG:CD	2.50	0.42
1:M:105:LEU:HD11	1:M:123:MET:HG3	2.01	0.42
1:M:180:LEU:HD12	1:M:181:ALA:CA	2.50	0.42
1:O:104:LEU:HD13	1:O:347:ALA:HB2	2.01	0.42
1:O:136:ILE:O	1:O:139:VAL:HB	2.19	0.42
1:P:34:ILE:HG23	1:P:67:LEU:HB3	2.01	0.42
1:Q:105:LEU:HD11	1:Q:123:MET:HG3	2.01	0.42
1:T:2:GLU:HB3	1:T:3:ASP:H	1.66	0.42
1:U:148:THR:CG2	1:U:149:THR:N	2.81	0.42
1:V:374:CYS:HB2	1:V:375:PHE:H	1.61	0.42
1:A:72:GLU:O	1:A:183:ARG:NH2	2.52	0.42
1:A:135:ALA:CB	1:A:140:LEU:HD21	2.49	0.42
1:B:72:GLU:O	1:B:183:ARG:NH2	2.52	0.42
1:B:106:THR:HG22	1:B:140:LEU:HD11	2.01	0.42
1:B:107:GLU:O	1:B:137:GLN:HG3	2.19	0.42
1:B:357:ILE:CG2	1:B:358:THR:N	2.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:135:ALA:CB	1:D:140:LEU:HD21	2.49	0.42
1:D:362:TYR:CE1	1:D:367:PRO:CB	2.99	0.42
1:F:110:LEU:CD1	1:F:177:ARG:HH11	2.32	0.42
1:F:180:LEU:HD12	1:F:181:ALA:CA	2.50	0.42
1:G:236:LEU:CD1	1:G:237:GLU:CG	2.93	0.42
1:H:180:LEU:CD1	1:H:181:ALA:N	2.78	0.42
1:J:35:VAL:H	1:J:68:LYS:H	1.65	0.42
1:J:135:ALA:CB	1:J:140:LEU:HD21	2.50	0.42
1:J:167:GLU:OE1	1:L:64:ILE:HD13	2.19	0.42
1:K:2:GLU:HB3	1:K:3:ASP:H	1.66	0.42
1:K:136:ILE:O	1:K:139:VAL:HB	2.19	0.42
1:K:149:THR:CG2	1:K:150:GLY:N	2.82	0.42
1:K:357:ILE:CG2	1:K:358:THR:N	2.83	0.42
1:M:69:TYR:CD2	1:M:69:TYR:N	2.86	0.42
1:N:65:LEU:HD13	1:N:67:LEU:HD23	2.01	0.42
1:N:167:GLU:OE1	1:P:61:LYS:HE2	2.19	0.42
1:O:180:LEU:HD12	1:O:181:ALA:CA	2.50	0.42
1:Q:180:LEU:HD12	1:Q:181:ALA:CA	2.50	0.42
1:S:105:LEU:HD11	1:S:123:MET:HG3	2.01	0.42
1:S:110:LEU:CD1	1:S:177:ARG:HH11	2.32	0.42
1:S:299:MET:O	1:S:332:PRO:HD2	2.18	0.42
1:T:35:VAL:H	1:T:68:LYS:H	1.65	0.42
1:T:65:LEU:HD13	1:T:67:LEU:HD23	2.01	0.42
1:U:121:GLN:HG3	1:U:362:TYR:OH	2.20	0.42
1:U:136:ILE:O	1:U:139:VAL:HB	2.19	0.42
1:U:299:MET:O	1:U:332:PRO:HD2	2.18	0.42
1:V:104:LEU:HD13	1:V:347:ALA:HB2	2.01	0.42
1:V:180:LEU:HD12	1:V:181:ALA:CA	2.50	0.42
1:W:121:GLN:HG3	1:W:362:TYR:OH	2.20	0.42
1:A:65:LEU:HD13	1:A:67:LEU:HD23	2.01	0.42
1:B:105:LEU:HD11	1:B:123:MET:HG3	2.02	0.42
1:B:136:ILE:O	1:B:139:VAL:HB	2.19	0.42
1:B:149:THR:CG2	1:B:150:GLY:N	2.82	0.42
1:B:362:TYR:CE1	1:B:367:PRO:CB	2.99	0.42
1:D:72:GLU:O	1:D:183:ARG:NH2	2.52	0.42
1:E:72:GLU:O	1:E:183:ARG:NH2	2.52	0.42
1:F:105:LEU:HD11	1:F:123:MET:HG3	2.02	0.42
1:G:180:LEU:HD12	1:G:181:ALA:CA	2.50	0.42
1:G:300:SER:HA	1:G:335:ARG:CD	2.50	0.42
1:H:133:TYR:CE2	1:H:375:PHE:HB2	2.51	0.42
1:H:136:ILE:O	1:H:139:VAL:HB	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:39:ARG:NE	1:I:66:THR:CA	2.69	0.42
1:I:167:GLU:OE1	1:K:64:ILE:HD13	2.19	0.42
1:K:110:LEU:CD1	1:K:177:ARG:HH11	2.32	0.42
1:L:72:GLU:O	1:L:183:ARG:NH2	2.52	0.42
1:L:121:GLN:HG3	1:L:362:TYR:OH	2.20	0.42
1:L:167:GLU:OE1	1:N:64:ILE:HD13	2.19	0.42
1:O:8:LEU:N	1:O:102:PRO:O	2.48	0.42
1:P:106:THR:HG22	1:P:140:LEU:HD11	2.01	0.42
1:Q:171:LEU:HA	1:Q:172:PRO:HD3	1.79	0.42
1:Q:173:HIS:HE1	1:R:268:GLY:CA	2.28	0.42
1:R:65:LEU:HD13	1:R:67:LEU:HD23	2.01	0.42
1:S:121:GLN:HG3	1:S:362:TYR:OH	2.20	0.42
1:S:362:TYR:CE1	1:S:367:PRO:CB	2.99	0.42
1:U:287:ILE:HD12	1:W:208:ILE:HD13	1.96	0.42
1:V:135:ALA:CB	1:V:140:LEU:HD21	2.49	0.42
1:A:38:PRO:CG	1:A:49:GLN:NE2	2.79	0.42
1:B:180:LEU:CD1	1:B:181:ALA:N	2.78	0.42
1:C:121:GLN:HG3	1:C:362:TYR:OH	2.20	0.42
1:D:167:GLU:OE1	1:F:64:ILE:HD13	2.19	0.42
1:E:167:GLU:OE1	1:G:61:LYS:HE2	2.20	0.42
1:E:180:LEU:HD12	1:E:181:ALA:CA	2.49	0.42
1:F:167:GLU:CD	1:H:61:LYS:CE	2.85	0.42
1:F:180:LEU:O	1:F:180:LEU:HG	2.11	0.42
1:J:35:VAL:C	1:J:54:VAL:CG2	2.88	0.42
1:J:107:GLU:O	1:J:137:GLN:HG3	2.19	0.42
1:J:121:GLN:HG3	1:J:362:TYR:OH	2.20	0.42
1:K:34:ILE:CG2	1:K:67:LEU:CB	2.96	0.42
1:K:110:LEU:CD1	1:K:177:ARG:NH1	2.80	0.42
1:K:167:GLU:CD	1:M:61:LYS:CE	2.85	0.42
1:L:65:LEU:HD13	1:L:67:LEU:HD23	2.01	0.42
1:M:104:LEU:HD13	1:M:347:ALA:HB2	2.01	0.42
1:M:133:TYR:CE2	1:M:375:PHE:HB2	2.51	0.42
1:N:103:THR:O	1:N:132:MET:HA	2.20	0.42
1:O:64:ILE:CG2	1:O:65:LEU:N	2.81	0.42
1:O:149:THR:HG23	1:O:150:GLY:N	2.34	0.42
1:O:167:GLU:OE1	1:Q:64:ILE:HD13	2.19	0.42
1:P:180:LEU:O	1:P:180:LEU:HG	2.11	0.42
1:Q:34:ILE:HG23	1:Q:67:LEU:HB3	2.02	0.42
1:Q:35:VAL:C	1:Q:54:VAL:CG2	2.88	0.42
1:S:149:THR:CG2	1:S:150:GLY:N	2.82	0.42
1:S:180:LEU:HD12	1:S:181:ALA:CA	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:35:VAL:C	1:T:54:VAL:CG2	2.88	0.42
1:T:299:MET:HE1	1:T:304:THR:HB	2.02	0.42
1:U:180:LEU:HD12	1:U:181:ALA:CA	2.49	0.42
1:V:121:GLN:HG3	1:V:362:TYR:OH	2.20	0.42
1:W:65:LEU:HD13	1:W:67:LEU:HD23	2.01	0.42
1:A:167:GLU:OE1	1:C:64:ILE:HD13	2.19	0.42
1:C:34:ILE:HG23	1:C:67:LEU:HB3	2.01	0.42
1:C:148:THR:CG2	1:C:149:THR:N	2.81	0.42
1:E:103:THR:O	1:E:132:MET:HA	2.20	0.42
1:E:106:THR:HG22	1:E:140:LEU:HD11	2.01	0.42
1:F:106:THR:HG22	1:F:140:LEU:HD11	2.01	0.42
1:G:65:LEU:HD13	1:G:67:LEU:HD23	2.01	0.42
1:H:35:VAL:C	1:H:54:VAL:CG2	2.88	0.42
1:I:178:LEU:HG	1:I:180:LEU:H	1.84	0.42
1:J:178:LEU:HG	1:J:180:LEU:H	1.84	0.42
1:L:35:VAL:C	1:L:54:VAL:CG2	2.88	0.42
1:L:47:MET:HB3	1:L:48:GLY:H	1.61	0.42
1:L:103:THR:O	1:L:132:MET:HA	2.20	0.42
1:M:110:LEU:CD1	1:M:177:ARG:NH1	2.80	0.42
1:M:180:LEU:CD1	1:M:181:ALA:N	2.78	0.42
1:N:121:GLN:HG3	1:N:362:TYR:OH	2.20	0.42
1:O:35:VAL:C	1:O:54:VAL:CG2	2.88	0.42
1:O:178:LEU:HG	1:O:180:LEU:H	1.84	0.42
1:O:180:LEU:CD1	1:O:181:ALA:N	2.78	0.42
1:P:107:GLU:O	1:P:137:GLN:HG3	2.19	0.42
1:P:299:MET:O	1:P:332:PRO:HD2	2.18	0.42
1:Q:72:GLU:O	1:Q:183:ARG:NH2	2.52	0.42
1:R:35:VAL:C	1:R:54:VAL:CG2	2.88	0.42
1:S:35:VAL:C	1:S:54:VAL:CG2	2.88	0.42
1:T:135:ALA:CB	1:T:140:LEU:HD21	2.49	0.42
1:T:299:MET:HE1	1:T:309:ILE:HD13	2.01	0.42
1:U:135:ALA:CB	1:U:140:LEU:HD21	2.50	0.42
1:U:300:SER:HA	1:U:335:ARG:CD	2.50	0.42
1:V:35:VAL:C	1:V:54:VAL:CG2	2.89	0.42
1:A:34:ILE:CG2	1:A:67:LEU:CB	2.96	0.41
1:B:8:LEU:CB	1:B:103:THR:HG23	2.48	0.41
1:C:133:TYR:CE2	1:C:375:PHE:HB2	2.51	0.41
1:C:167:GLU:OE1	1:E:64:ILE:HD13	2.19	0.41
1:E:69:TYR:CD2	1:E:69:TYR:N	2.87	0.41
1:G:103:THR:O	1:G:132:MET:HA	2.20	0.41
1:G:178:LEU:HG	1:G:180:LEU:H	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:106:THR:HG22	1:H:140:LEU:HD11	2.01	0.41
1:K:140:LEU:HB3	1:K:343:GLY:N	2.35	0.41
1:K:173:HIS:HE1	1:L:268:GLY:CA	2.28	0.41
1:M:153:LEU:HD23	1:M:299:MET:HE2	2.02	0.41
1:M:178:LEU:HG	1:M:180:LEU:H	1.84	0.41
1:P:35:VAL:C	1:P:54:VAL:CG2	2.88	0.41
1:P:103:THR:O	1:P:132:MET:HA	2.20	0.41
1:P:178:LEU:HG	1:P:180:LEU:H	1.84	0.41
1:Q:121:GLN:HG3	1:Q:362:TYR:OH	2.20	0.41
1:Q:149:THR:CG2	1:Q:150:GLY:N	2.82	0.41
1:R:140:LEU:HB3	1:R:343:GLY:N	2.35	0.41
1:S:106:THR:HG22	1:S:140:LEU:HD11	2.01	0.41
1:T:357:ILE:CG2	1:T:358:THR:N	2.82	0.41
1:V:103:THR:O	1:V:132:MET:HA	2.20	0.41
1:V:133:TYR:CE2	1:V:375:PHE:HB2	2.51	0.41
1:W:35:VAL:C	1:W:54:VAL:CG2	2.88	0.41
1:W:103:THR:O	1:W:132:MET:HA	2.20	0.41
1:W:140:LEU:HB3	1:W:343:GLY:N	2.35	0.41
1:A:171:LEU:HA	1:A:172:PRO:HD3	1.79	0.41
1:A:189:LEU:HA	1:A:192:ILE:HG12	2.02	0.41
1:C:38:PRO:CG	1:C:49:GLN:NE2	2.79	0.41
1:D:107:GLU:O	1:D:137:GLN:HG3	2.19	0.41
1:D:121:GLN:HA	1:D:362:TYR:CZ	2.55	0.41
1:D:167:GLU:OE1	1:F:61:LYS:HE2	2.20	0.41
1:E:107:GLU:O	1:E:137:GLN:HG3	2.19	0.41
1:E:121:GLN:HG3	1:E:362:TYR:OH	2.20	0.41
1:F:35:VAL:C	1:F:54:VAL:CG2	2.89	0.41
1:F:72:GLU:O	1:F:183:ARG:NH2	2.52	0.41
1:G:167:GLU:OE1	1:I:61:LYS:HE2	2.19	0.41
1:H:34:ILE:CG2	1:H:67:LEU:CB	2.96	0.41
1:H:121:GLN:HG3	1:H:362:TYR:OH	2.20	0.41
1:I:65:LEU:HD13	1:I:67:LEU:HD23	2.01	0.41
1:J:34:ILE:HG23	1:J:67:LEU:HB3	2.01	0.41
1:J:47:MET:HB3	1:J:48:GLY:H	1.62	0.41
1:J:65:LEU:HD13	1:J:67:LEU:HD23	2.01	0.41
1:J:72:GLU:O	1:J:183:ARG:NH2	2.52	0.41
1:L:167:GLU:OE1	1:N:61:LYS:HE2	2.19	0.41
1:N:35:VAL:C	1:N:54:VAL:CG2	2.89	0.41
1:N:110:LEU:CD1	1:N:177:ARG:HH11	2.32	0.41
1:N:189:LEU:HA	1:N:192:ILE:HG12	2.02	0.41
1:N:300:SER:HA	1:N:335:ARG:CD	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:106:THR:HG22	1:O:140:LEU:HD11	2.01	0.41
1:O:173:HIS:HE1	1:P:268:GLY:CA	2.28	0.41
1:P:208:ILE:CG2	1:P:209:VAL:N	2.83	0.41
1:Q:106:THR:HG22	1:Q:140:LEU:HD11	2.01	0.41
1:Q:121:GLN:HA	1:Q:362:TYR:CZ	2.55	0.41
1:Q:140:LEU:HB3	1:Q:343:GLY:N	2.35	0.41
1:Q:180:LEU:CD1	1:Q:181:ALA:N	2.78	0.41
1:R:34:ILE:HG23	1:R:67:LEU:HB3	2.01	0.41
1:S:121:GLN:HA	1:S:362:TYR:CZ	2.55	0.41
1:T:34:ILE:CG2	1:T:67:LEU:CB	2.96	0.41
1:T:121:GLN:HG3	1:T:362:TYR:OH	2.20	0.41
1:T:140:LEU:HB3	1:T:343:GLY:N	2.36	0.41
1:U:35:VAL:C	1:U:54:VAL:CG2	2.88	0.41
1:U:103:THR:O	1:U:132:MET:HA	2.20	0.41
1:U:140:LEU:HB3	1:U:343:GLY:N	2.36	0.41
1:U:167:GLU:OE1	1:W:64:ILE:HD13	2.19	0.41
1:V:34:ILE:HG23	1:V:67:LEU:HB3	2.02	0.41
1:V:65:LEU:HD13	1:V:67:LEU:HD23	2.01	0.41
1:V:69:TYR:CD2	1:V:69:TYR:N	2.86	0.41
1:V:73:HIC:HA	1:V:183:ARG:NH1	2.18	0.41
1:A:148:THR:CG2	1:A:149:THR:N	2.81	0.41
1:B:121:GLN:HA	1:B:362:TYR:CZ	2.55	0.41
1:B:121:GLN:HG3	1:B:362:TYR:OH	2.20	0.41
1:C:65:LEU:HD13	1:C:67:LEU:HD23	2.01	0.41
1:C:103:THR:O	1:C:132:MET:HA	2.20	0.41
1:C:189:LEU:HA	1:C:192:ILE:HG12	2.02	0.41
1:C:357:ILE:CG2	1:C:358:THR:N	2.83	0.41
1:D:180:LEU:HD12	1:D:181:ALA:CA	2.50	0.41
1:E:121:GLN:HA	1:E:362:TYR:CZ	2.55	0.41
1:E:167:GLU:OE1	1:G:64:ILE:HD13	2.19	0.41
1:F:140:LEU:HB3	1:F:343:GLY:N	2.35	0.41
1:H:121:GLN:HA	1:H:362:TYR:CZ	2.55	0.41
1:H:149:THR:CG2	1:H:150:GLY:N	2.82	0.41
1:I:121:GLN:HA	1:I:362:TYR:CZ	2.55	0.41
1:J:103:THR:O	1:J:132:MET:HA	2.20	0.41
1:J:121:GLN:HA	1:J:362:TYR:CZ	2.55	0.41
1:J:167:GLU:CD	1:L:61:LYS:CE	2.85	0.41
1:J:335:ARG:O	1:J:338:SER:CB	2.69	0.41
1:L:149:THR:CG2	1:L:150:GLY:N	2.82	0.41
1:M:35:VAL:C	1:M:54:VAL:CG2	2.88	0.41
1:N:167:GLU:OE1	1:P:64:ILE:HD13	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:ILE:HG23	1:O:67:LEU:HB3	2.01	0.41
1:O:140:LEU:HB3	1:O:343:GLY:N	2.35	0.41
1:O:349:LEU:HD23	1:O:349:LEU:HA	1.80	0.41
1:P:140:LEU:HB3	1:P:343:GLY:N	2.35	0.41
1:P:149:THR:CG2	1:P:150:GLY:N	2.82	0.41
1:Q:335:ARG:O	1:Q:338:SER:CB	2.69	0.41
1:S:103:THR:O	1:S:132:MET:HA	2.20	0.41
1:S:140:LEU:HB3	1:S:343:GLY:N	2.35	0.41
1:S:374:CYS:HB2	1:S:375:PHE:H	1.61	0.41
1:T:103:THR:O	1:T:132:MET:HA	2.20	0.41
1:V:34:ILE:CG2	1:V:67:LEU:CB	2.96	0.41
1:V:140:LEU:HB3	1:V:343:GLY:N	2.35	0.41
1:W:8:LEU:N	1:W:102:PRO:O	2.48	0.41
1:A:140:LEU:HB3	1:A:343:GLY:N	2.36	0.41
1:B:135:ALA:CB	1:B:140:LEU:HD21	2.49	0.41
1:C:180:LEU:HD12	1:C:181:ALA:CA	2.50	0.41
1:D:35:VAL:C	1:D:54:VAL:CG2	2.88	0.41
1:D:183:ARG:HE	1:D:183:ARG:HB3	1.59	0.41
1:E:31:PHE:HA	1:E:32:PRO:HD3	1.66	0.41
1:E:171:LEU:HA	1:E:172:PRO:HD3	1.79	0.41
1:F:236:LEU:HD12	1:F:237:GLU:CA	2.51	0.41
1:G:121:GLN:HA	1:G:362:TYR:CZ	2.56	0.41
1:H:335:ARG:O	1:H:338:SER:CB	2.69	0.41
1:H:374:CYS:HB2	1:H:375:PHE:H	1.61	0.41
1:I:110:LEU:CD1	1:I:177:ARG:NH1	2.80	0.41
1:I:140:LEU:HB3	1:I:343:GLY:N	2.35	0.41
1:I:300:SER:HA	1:I:335:ARG:CD	2.50	0.41
1:L:357:ILE:CG2	1:L:358:THR:N	2.83	0.41
1:M:106:THR:HG22	1:M:140:LEU:HD11	2.01	0.41
1:M:135:ALA:CB	1:M:140:LEU:HD21	2.49	0.41
1:N:31:PHE:HA	1:N:32:PRO:HD3	1.66	0.41
1:O:110:LEU:CD1	1:O:177:ARG:NH1	2.80	0.41
1:O:121:GLN:HG3	1:O:362:TYR:OH	2.20	0.41
1:P:167:GLU:OE1	1:R:64:ILE:HD13	2.19	0.41
1:P:189:LEU:HA	1:P:192:ILE:HG12	2.02	0.41
1:R:2:GLU:HB3	1:R:3:ASP:H	1.66	0.41
1:R:189:LEU:HA	1:R:192:ILE:HG12	2.02	0.41
1:R:357:ILE:CG2	1:R:358:THR:N	2.83	0.41
1:S:171:LEU:HA	1:S:172:PRO:HD3	1.79	0.41
1:T:189:LEU:HA	1:T:192:ILE:HG12	2.02	0.41
1:V:110:LEU:CD1	1:V:177:ARG:HH11	2.32	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:121:GLN:HA	1:W:362:TYR:CZ	2.55	0.41
1:W:180:LEU:HD12	1:W:181:ALA:CA	2.50	0.41
1:B:110:LEU:CD1	1:B:177:ARG:HH11	2.32	0.41
1:B:140:LEU:HB3	1:B:343:GLY:N	2.35	0.41
1:B:335:ARG:O	1:B:338:SER:CB	2.69	0.41
1:C:69:TYR:CD2	1:C:69:TYR:N	2.86	0.41
1:C:140:LEU:HB3	1:C:343:GLY:N	2.35	0.41
1:E:2:GLU:HB3	1:E:3:ASP:H	1.66	0.41
1:E:135:ALA:CB	1:E:140:LEU:HD21	2.49	0.41
1:E:208:ILE:CG2	1:E:209:VAL:N	2.83	0.41
1:I:103:THR:O	1:I:132:MET:HA	2.20	0.41
1:I:335:ARG:O	1:I:338:SER:CB	2.69	0.41
1:K:35:VAL:C	1:K:54:VAL:CG2	2.88	0.41
1:L:189:LEU:HA	1:L:192:ILE:HG12	2.02	0.41
1:L:335:ARG:HD3	1:L:335:ARG:HA	1.39	0.41
1:M:121:GLN:HG3	1:M:362:TYR:OH	2.20	0.41
1:M:236:LEU:HD12	1:M:237:GLU:CA	2.51	0.41
1:O:103:THR:O	1:O:132:MET:HA	2.20	0.41
1:P:64:ILE:CG2	1:P:65:LEU:N	2.82	0.41
1:P:65:LEU:HD13	1:P:67:LEU:HD23	2.01	0.41
1:P:135:ALA:CB	1:P:140:LEU:HD21	2.49	0.41
1:P:349:LEU:HD23	1:P:349:LEU:HA	1.80	0.41
1:Q:103:THR:O	1:Q:132:MET:HA	2.20	0.41
1:Q:167:GLU:OE1	1:S:64:ILE:HD13	2.19	0.41
1:R:34:ILE:HD13	1:R:67:LEU:CD2	2.46	0.41
1:R:135:ALA:CB	1:R:140:LEU:HD21	2.49	0.41
1:S:34:ILE:CG2	1:S:67:LEU:CB	2.96	0.41
1:S:180:LEU:CD1	1:S:181:ALA:N	2.78	0.41
1:S:357:ILE:CG2	1:S:358:THR:N	2.82	0.41
1:U:49:GLN:HG3	1:U:50:LYS:N	2.20	0.41
1:U:72:GLU:O	1:U:183:ARG:NH2	2.52	0.41
1:U:180:LEU:CD1	1:U:181:ALA:N	2.78	0.41
1:U:335:ARG:O	1:U:338:SER:CB	2.69	0.41
1:V:171:LEU:HA	1:V:172:PRO:HD3	1.79	0.41
1:A:180:LEU:HD12	1:A:181:ALA:CA	2.50	0.41
1:B:236:LEU:HD12	1:B:237:GLU:CA	2.51	0.41
1:C:49:GLN:HG3	1:C:50:LYS:N	2.21	0.41
1:C:121:GLN:HA	1:C:362:TYR:CZ	2.55	0.41
1:D:121:GLN:HG3	1:D:362:TYR:OH	2.20	0.41
1:E:189:LEU:HA	1:E:192:ILE:HG12	2.02	0.41
1:F:223:PHE:CZ	1:F:266:PHE:CZ	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:106:THR:HG22	1:G:140:LEU:HD11	2.01	0.41
1:G:135:ALA:CB	1:G:140:LEU:HD21	2.49	0.41
1:G:189:LEU:HA	1:G:192:ILE:HG12	2.02	0.41
1:I:34:ILE:CG2	1:I:67:LEU:HD22	2.28	0.41
1:J:133:TYR:CE2	1:J:375:PHE:HB2	2.51	0.41
1:J:167:GLU:OE1	1:L:61:LYS:HE2	2.20	0.41
1:K:121:GLN:HA	1:K:362:TYR:CZ	2.55	0.41
1:K:335:ARG:O	1:K:338:SER:CB	2.69	0.41
1:M:34:ILE:CG2	1:M:67:LEU:CB	2.96	0.41
1:M:121:GLN:HA	1:M:362:TYR:CZ	2.55	0.41
1:M:335:ARG:O	1:M:338:SER:CB	2.69	0.41
1:N:135:ALA:CB	1:N:140:LEU:HD21	2.49	0.41
1:N:140:LEU:HB3	1:N:343:GLY:N	2.35	0.41
1:P:121:GLN:HG3	1:P:362:TYR:OH	2.20	0.41
1:S:135:ALA:CB	1:S:140:LEU:HD21	2.49	0.41
1:S:335:ARG:O	1:S:338:SER:CB	2.69	0.41
1:U:31:PHE:HA	1:U:32:PRO:HD3	1.66	0.41
1:V:178:LEU:HG	1:V:180:LEU:H	1.84	0.41
1:W:47:MET:HB3	1:W:48:GLY:H	1.61	0.41
1:W:236:LEU:HD12	1:W:237:GLU:CA	2.51	0.41
1:A:103:THR:O	1:A:132:MET:HA	2.20	0.41
1:A:149:THR:CG2	1:A:150:GLY:N	2.82	0.41
1:B:35:VAL:C	1:B:54:VAL:CG2	2.88	0.41
1:B:167:GLU:OE1	1:D:64:ILE:HD13	2.19	0.41
1:C:35:VAL:C	1:C:54:VAL:CG2	2.88	0.41
1:C:357:ILE:HD12	1:C:357:ILE:HA	1.79	0.41
1:D:8:LEU:N	1:D:102:PRO:O	2.48	0.41
1:D:140:LEU:HB3	1:D:343:GLY:N	2.35	0.41
1:D:335:ARG:O	1:D:338:SER:CB	2.69	0.41
1:E:357:ILE:CG2	1:E:358:THR:N	2.82	0.41
1:F:121:GLN:HA	1:F:362:TYR:CZ	2.55	0.41
1:F:121:GLN:HG3	1:F:362:TYR:OH	2.20	0.41
1:F:167:GLU:OE1	1:H:61:LYS:HE2	2.20	0.41
1:F:335:ARG:O	1:F:338:SER:CB	2.69	0.41
1:G:110:LEU:CD1	1:G:177:ARG:HH11	2.32	0.41
1:G:121:GLN:HG3	1:G:362:TYR:OH	2.20	0.41
1:G:236:LEU:HD12	1:G:237:GLU:CA	2.51	0.41
1:H:8:LEU:N	1:H:102:PRO:O	2.48	0.41
1:I:8:LEU:CD1	1:I:90:PHE:CD1	3.04	0.41
1:I:35:VAL:C	1:I:54:VAL:CG2	2.88	0.41
1:I:106:THR:HG22	1:I:140:LEU:HD11	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:236:LEU:HD12	1:I:237:GLU:CA	2.51	0.41
1:K:121:GLN:HG3	1:K:362:TYR:OH	2.20	0.41
1:L:236:LEU:HD12	1:L:237:GLU:CA	2.51	0.41
1:M:110:LEU:CD1	1:M:177:ARG:HH11	2.32	0.41
1:M:183:ARG:HE	1:M:183:ARG:HB3	1.58	0.41
1:N:38:PRO:CG	1:N:49:GLN:NE2	2.79	0.41
1:N:121:GLN:HA	1:N:362:TYR:CZ	2.55	0.41
1:P:121:GLN:HA	1:P:362:TYR:CZ	2.55	0.41
1:Q:110:LEU:CD1	1:Q:177:ARG:NH1	2.80	0.41
1:Q:149:THR:HG23	1:Q:150:GLY:N	2.34	0.41
1:Q:236:LEU:HD12	1:Q:237:GLU:CA	2.51	0.41
1:R:106:THR:HG22	1:R:140:LEU:HD11	2.01	0.41
1:R:110:LEU:CD1	1:R:177:ARG:HH11	2.32	0.41
1:R:362:TYR:CE1	1:R:367:PRO:CB	2.99	0.41
1:T:335:ARG:O	1:T:338:SER:CB	2.69	0.41
1:W:110:LEU:CD1	1:W:177:ARG:HH11	2.32	0.41
1:W:335:ARG:O	1:W:338:SER:CB	2.69	0.41
1:A:34:ILE:HG23	1:A:67:LEU:HB3	2.01	0.41
1:A:35:VAL:C	1:A:54:VAL:CG2	2.89	0.41
1:B:180:LEU:HD12	1:B:181:ALA:CA	2.50	0.41
1:B:357:ILE:HD12	1:B:357:ILE:HA	1.79	0.41
1:C:110:LEU:CD1	1:C:177:ARG:HH11	2.32	0.41
1:C:135:ALA:CB	1:C:140:LEU:HD21	2.49	0.41
1:D:300:SER:HA	1:D:335:ARG:CD	2.50	0.41
1:F:43:VAL:O	1:F:44:MET:CE	2.69	0.41
1:G:299:MET:HE1	1:G:309:ILE:HD13	2.03	0.41
1:H:34:ILE:HG23	1:H:67:LEU:HB3	2.01	0.41
1:I:8:LEU:CB	1:I:103:THR:HG23	2.49	0.41
1:I:121:GLN:HG3	1:I:362:TYR:OH	2.20	0.41
1:J:149:THR:CG2	1:J:150:GLY:N	2.82	0.41
1:K:106:THR:HG22	1:K:140:LEU:HD11	2.01	0.41
1:O:39:ARG:NE	1:O:66:THR:CA	2.69	0.41
1:P:142:LEU:CD1	1:P:165:ILE:HD11	2.47	0.41
1:P:167:GLU:CD	1:R:61:LYS:CE	2.85	0.41
1:P:300:SER:HA	1:P:335:ARG:CD	2.50	0.41
1:P:335:ARG:O	1:P:338:SER:CB	2.69	0.41
1:R:236:LEU:HD12	1:R:237:GLU:CA	2.51	0.41
1:S:39:ARG:NE	1:S:66:THR:CA	2.69	0.41
1:S:236:LEU:HD12	1:S:237:GLU:CA	2.51	0.41
1:T:236:LEU:HD12	1:T:237:GLU:CA	2.51	0.41
1:U:8:LEU:N	1:U:102:PRO:O	2.48	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:299:MET:HE1	1:U:309:ILE:HD13	2.03	0.41
1:W:300:SER:HA	1:W:335:ARG:CD	2.50	0.41
1:A:43:VAL:O	1:A:44:MET:CE	2.69	0.41
1:A:110:LEU:CD1	1:A:177:ARG:HH11	2.32	0.41
1:A:121:GLN:HA	1:A:362:TYR:CZ	2.56	0.41
1:A:236:LEU:HD12	1:A:237:GLU:CA	2.51	0.41
1:B:103:THR:O	1:B:132:MET:HA	2.20	0.41
1:B:175:ILE:H	1:B:175:ILE:HG13	1.71	0.41
1:B:349:LEU:HD23	1:B:349:LEU:HA	1.80	0.41
1:C:164:PRO:HG2	1:C:174:ALA:CB	2.51	0.41
1:D:164:PRO:CG	1:D:174:ALA:HB3	2.51	0.41
1:D:180:LEU:CD1	1:D:181:ALA:N	2.78	0.41
1:D:357:ILE:CG2	1:D:358:THR:N	2.83	0.41
1:E:35:VAL:C	1:E:54:VAL:CG2	2.89	0.41
1:E:38:PRO:CG	1:E:49:GLN:NE2	2.79	0.41
1:E:140:LEU:HB3	1:E:343:GLY:N	2.35	0.41
1:E:148:THR:CG2	1:E:149:THR:N	2.81	0.41
1:E:335:ARG:O	1:E:338:SER:CB	2.69	0.41
1:F:8:LEU:N	1:F:102:PRO:O	2.48	0.41
1:F:173:HIS:HE1	1:G:268:GLY:CA	2.28	0.41
1:F:180:LEU:CD1	1:F:181:ALA:N	2.78	0.41
1:G:8:LEU:CD1	1:G:90:PHE:CD1	3.04	0.41
1:G:35:VAL:C	1:G:54:VAL:CG2	2.88	0.41
1:G:43:VAL:O	1:G:44:MET:CE	2.69	0.41
1:H:43:VAL:O	1:H:44:MET:CE	2.69	0.41
1:H:103:THR:O	1:H:132:MET:HA	2.20	0.41
1:H:140:LEU:HB3	1:H:343:GLY:N	2.35	0.41
1:H:167:GLU:OE1	1:J:61:LYS:HE2	2.20	0.41
1:H:236:LEU:HD12	1:H:237:GLU:CA	2.51	0.41
1:H:287:ILE:HD12	1:J:208:ILE:HD13	1.96	0.41
1:I:34:ILE:CG2	1:I:68:LYS:N	2.84	0.41
1:I:135:ALA:CB	1:I:140:LEU:HD21	2.49	0.41
1:I:189:LEU:HA	1:I:192:ILE:HG12	2.02	0.41
1:J:43:VAL:O	1:J:44:MET:CE	2.69	0.41
1:J:164:PRO:HG2	1:J:174:ALA:CB	2.51	0.41
1:J:164:PRO:CG	1:J:174:ALA:HB3	2.51	0.41
1:K:8:LEU:CD1	1:K:90:PHE:CD1	3.04	0.41
1:K:34:ILE:CG2	1:K:68:LYS:N	2.84	0.41
1:K:103:THR:O	1:K:132:MET:HA	2.20	0.41
1:K:135:ALA:CB	1:K:140:LEU:HD21	2.50	0.41
1:L:43:VAL:O	1:L:44:MET:CE	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:110:LEU:CD1	1:L:177:ARG:HH11	2.32	0.41
1:L:121:GLN:HA	1:L:362:TYR:CZ	2.55	0.41
1:L:164:PRO:HG2	1:L:174:ALA:CB	2.51	0.41
1:L:164:PRO:CG	1:L:174:ALA:HB3	2.51	0.41
1:L:335:ARG:O	1:L:338:SER:CB	2.69	0.41
1:M:34:ILE:CG2	1:M:68:LYS:N	2.84	0.41
1:M:34:ILE:HG23	1:M:67:LEU:HB3	2.02	0.41
1:M:103:THR:O	1:M:132:MET:HA	2.20	0.41
1:M:357:ILE:CG2	1:M:358:THR:N	2.83	0.41
1:N:43:VAL:O	1:N:44:MET:CE	2.69	0.41
1:N:164:PRO:CG	1:N:174:ALA:HB3	2.51	0.41
1:N:335:ARG:O	1:N:338:SER:CB	2.69	0.41
1:O:2:GLU:HB3	1:O:3:ASP:H	1.66	0.41
1:O:133:TYR:CE2	1:O:375:PHE:HB2	2.51	0.41
1:O:142:LEU:CD1	1:O:165:ILE:HD11	2.47	0.41
1:O:153:LEU:HD23	1:O:299:MET:HE2	2.03	0.41
1:P:38:PRO:CG	1:P:49:GLN:NE2	2.79	0.41
1:P:43:VAL:O	1:P:44:MET:CE	2.69	0.41
1:P:110:LEU:CD1	1:P:177:ARG:HH11	2.32	0.41
1:P:362:TYR:CE1	1:P:367:PRO:CB	2.99	0.41
1:R:8:LEU:CD1	1:R:90:PHE:CD1	3.04	0.41
1:R:43:VAL:O	1:R:44:MET:CE	2.69	0.41
1:R:103:THR:O	1:R:132:MET:HA	2.20	0.41
1:R:121:GLN:HA	1:R:362:TYR:CZ	2.56	0.41
1:R:121:GLN:HG3	1:R:362:TYR:OH	2.20	0.41
1:S:173:HIS:HE1	1:T:268:GLY:CA	2.28	0.41
1:T:8:LEU:CD1	1:T:90:PHE:CD1	3.04	0.41
1:T:34:ILE:HG23	1:T:67:LEU:HB3	2.01	0.41
1:T:149:THR:CG2	1:T:150:GLY:N	2.82	0.41
1:T:236:LEU:CD1	1:T:237:GLU:CG	2.93	0.41
1:U:44:MET:CG	1:U:45:VAL:H	2.18	0.41
1:V:189:LEU:HA	1:V:192:ILE:HG12	2.03	0.41
1:V:335:ARG:O	1:V:338:SER:CB	2.69	0.41
1:W:34:ILE:CG2	1:W:67:LEU:CB	2.96	0.41
1:W:43:VAL:O	1:W:44:MET:CE	2.69	0.41
1:W:223:PHE:CZ	1:W:266:PHE:CZ	3.09	0.41
1:A:69:TYR:CD2	1:A:69:TYR:N	2.86	0.41
1:B:8:LEU:CD1	1:B:90:PHE:CD1	3.04	0.41
1:C:335:ARG:O	1:C:338:SER:CB	2.69	0.41
1:D:173:HIS:HE1	1:E:268:GLY:CA	2.28	0.41
1:E:43:VAL:O	1:E:44:MET:CE	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:164:PRO:HG2	1:E:174:ALA:CB	2.51	0.41
1:E:167:GLU:CD	1:G:61:LYS:CE	2.85	0.41
1:E:224:GLU:OE1	1:E:224:GLU:N	2.51	0.41
1:F:164:PRO:CG	1:F:174:ALA:HB3	2.51	0.41
1:F:169:TYR:CE2	1:H:40:HIS:HB2	2.56	0.41
1:G:34:ILE:CG2	1:G:68:LYS:N	2.84	0.41
1:H:164:PRO:CG	1:H:174:ALA:HB3	2.51	0.41
1:H:169:TYR:CE2	1:J:40:HIS:HB2	2.56	0.41
1:I:73:HIC:HA	1:I:183:ARG:NH1	2.18	0.41
1:I:167:GLU:OE1	1:K:61:LYS:HE2	2.20	0.41
1:J:171:LEU:HA	1:J:172:PRO:HD3	1.79	0.41
1:J:189:LEU:HA	1:J:192:ILE:HG12	2.02	0.41
1:L:38:PRO:CG	1:L:49:GLN:NE2	2.79	0.41
1:L:140:LEU:HB3	1:L:343:GLY:N	2.35	0.41
1:L:183:ARG:HE	1:L:183:ARG:HB3	1.58	0.41
1:L:332:PRO:HA	1:L:333:PRO:HD3	1.95	0.41
1:N:73:HIC:HA	1:N:183:ARG:NH1	2.18	0.41
1:O:135:ALA:CB	1:O:140:LEU:HD21	2.49	0.41
1:Q:8:LEU:CD1	1:Q:90:PHE:CD1	3.04	0.41
1:Q:164:PRO:HG2	1:Q:174:ALA:CB	2.51	0.41
1:R:224:GLU:OE1	1:R:224:GLU:N	2.51	0.41
1:S:164:PRO:HG2	1:S:174:ALA:CB	2.51	0.41
1:T:34:ILE:CG2	1:T:67:LEU:HD22	2.28	0.41
1:T:121:GLN:HA	1:T:362:TYR:CZ	2.55	0.41
1:U:43:VAL:O	1:U:44:MET:CE	2.69	0.41
1:U:236:LEU:HD12	1:U:237:GLU:CA	2.51	0.41
1:V:34:ILE:HD13	1:V:67:LEU:CD2	2.46	0.41
1:V:357:ILE:HD12	1:V:357:ILE:HA	1.78	0.41
1:V:357:ILE:CG2	1:V:358:THR:N	2.83	0.41
1:W:189:LEU:HA	1:W:192:ILE:HG12	2.02	0.41
1:W:332:PRO:HA	1:W:333:PRO:HD3	1.95	0.41
1:B:143:TYR:CE2	1:D:45:VAL:CG2	3.04	0.40
1:C:143:TYR:CE2	1:E:45:VAL:CG2	3.04	0.40
1:D:43:VAL:O	1:D:44:MET:CE	2.69	0.40
1:E:142:LEU:CD1	1:E:165:ILE:HD11	2.47	0.40
1:F:34:ILE:CG2	1:F:67:LEU:CB	2.96	0.40
1:H:164:PRO:HG2	1:H:174:ALA:CB	2.51	0.40
1:J:169:TYR:CE2	1:L:40:HIS:HB2	2.56	0.40
1:J:236:LEU:HD12	1:J:237:GLU:CA	2.51	0.40
1:J:332:PRO:HA	1:J:333:PRO:HD3	1.95	0.40
1:M:8:LEU:N	1:M:102:PRO:O	2.48	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:8:LEU:N	1:N:102:PRO:O	2.48	0.40
1:N:183:ARG:HE	1:N:183:ARG:HB3	1.58	0.40
1:N:362:TYR:CE1	1:N:367:PRO:CB	2.99	0.40
1:O:34:ILE:CG2	1:O:68:LYS:N	2.84	0.40
1:O:43:VAL:O	1:O:44:MET:CE	2.69	0.40
1:O:335:ARG:O	1:O:338:SER:CB	2.69	0.40
1:Q:43:VAL:O	1:Q:44:MET:CE	2.69	0.40
1:Q:143:TYR:CE2	1:S:45:VAL:CG2	3.04	0.40
1:S:8:LEU:N	1:S:102:PRO:O	2.48	0.40
1:S:110:LEU:CD1	1:S:177:ARG:NH1	2.80	0.40
1:S:164:PRO:CG	1:S:174:ALA:HB3	2.51	0.40
1:T:110:LEU:CD1	1:T:177:ARG:HH11	2.32	0.40
1:U:47:MET:HB3	1:U:48:GLY:H	1.62	0.40
1:V:164:PRO:HG2	1:V:174:ALA:CB	2.51	0.40
1:V:164:PRO:CG	1:V:174:ALA:HB3	2.51	0.40
1:A:47:MET:HB3	1:A:48:GLY:H	1.61	0.40
1:A:143:TYR:CE2	1:C:45:VAL:CG2	3.04	0.40
1:A:164:PRO:HG2	1:A:174:ALA:CB	2.51	0.40
1:B:50:LYS:CG	1:B:53:TYR:CE2	3.03	0.40
1:B:113:LYS:HB3	1:B:371:HIS:CD2	2.57	0.40
1:F:153:LEU:HD23	1:F:299:MET:HE2	2.03	0.40
1:H:47:MET:HB3	1:H:48:GLY:H	1.62	0.40
1:H:189:LEU:HA	1:H:192:ILE:HG12	2.02	0.40
1:K:236:LEU:HD12	1:K:237:GLU:CA	2.51	0.40
1:K:300:SER:HA	1:K:335:ARG:CD	2.50	0.40
1:L:135:ALA:CB	1:L:140:LEU:HD21	2.50	0.40
1:M:140:LEU:HB3	1:M:343:GLY:N	2.35	0.40
1:N:47:MET:HB3	1:N:48:GLY:H	1.62	0.40
1:O:164:PRO:HG2	1:O:174:ALA:CB	2.51	0.40
1:Q:44:MET:CG	1:Q:45:VAL:N	2.76	0.40
1:T:34:ILE:CG2	1:T:68:LYS:N	2.84	0.40
1:T:106:THR:HG22	1:T:140:LEU:HD11	2.01	0.40
1:T:164:PRO:CG	1:T:174:ALA:HB3	2.51	0.40
1:U:164:PRO:CG	1:U:174:ALA:HB3	2.51	0.40
1:U:189:LEU:HA	1:U:192:ILE:HG12	2.02	0.40
1:A:8:LEU:CD1	1:A:90:PHE:CD1	3.04	0.40
1:B:189:LEU:HA	1:B:192:ILE:HG12	2.02	0.40
1:C:50:LYS:CG	1:C:53:TYR:CE2	3.03	0.40
1:D:34:ILE:CG2	1:D:67:LEU:CB	2.96	0.40
1:D:103:THR:O	1:D:132:MET:HA	2.20	0.40
1:D:143:TYR:CE2	1:F:45:VAL:CG2	3.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:189:LEU:HA	1:D:192:ILE:HG12	2.02	0.40
1:F:173:HIS:CE1	1:G:268:GLY:N	2.90	0.40
1:G:140:LEU:HB3	1:G:343:GLY:N	2.35	0.40
1:G:164:PRO:HG2	1:G:174:ALA:CB	2.51	0.40
1:J:140:LEU:HB3	1:J:343:GLY:N	2.36	0.40
1:N:164:PRO:HG2	1:N:174:ALA:CB	2.51	0.40
1:N:173:HIS:CE1	1:O:268:GLY:N	2.90	0.40
1:N:357:ILE:CG2	1:N:358:THR:N	2.83	0.40
1:O:8:LEU:CD1	1:O:90:PHE:CD1	3.04	0.40
1:O:121:GLN:HA	1:O:362:TYR:CZ	2.55	0.40
1:O:143:TYR:CE2	1:Q:45:VAL:CG2	3.04	0.40
1:O:149:THR:CG2	1:O:150:GLY:N	2.82	0.40
1:O:236:LEU:HD12	1:O:237:GLU:CA	2.51	0.40
1:Q:113:LYS:HB3	1:Q:371:HIS:CD2	2.57	0.40
1:Q:164:PRO:CG	1:Q:174:ALA:HB3	2.51	0.40
1:Q:208:ILE:CG2	1:Q:209:VAL:N	2.83	0.40
1:R:34:ILE:CG2	1:R:68:LYS:N	2.84	0.40
1:R:50:LYS:CG	1:R:53:TYR:CE2	3.03	0.40
1:S:43:VAL:O	1:S:44:MET:CE	2.69	0.40
1:S:183:ARG:HE	1:S:183:ARG:HB3	1.58	0.40
1:T:164:PRO:HG2	1:T:174:ALA:CB	2.51	0.40
1:U:121:GLN:HA	1:U:362:TYR:CZ	2.55	0.40
1:U:223:PHE:CZ	1:U:266:PHE:CZ	3.09	0.40
1:W:357:ILE:HD12	1:W:357:ILE:HA	1.78	0.40
1:A:335:ARG:O	1:A:338:SER:CB	2.69	0.40
1:B:43:VAL:O	1:B:44:MET:CE	2.69	0.40
1:E:34:ILE:CG2	1:E:68:LYS:N	2.84	0.40
1:E:143:TYR:CE2	1:G:45:VAL:CG2	3.04	0.40
1:E:173:HIS:CE1	1:F:268:GLY:N	2.90	0.40
1:I:173:HIS:CE1	1:J:268:GLY:N	2.90	0.40
1:I:236:LEU:CD1	1:I:237:GLU:CG	2.93	0.40
1:K:173:HIS:CE1	1:L:268:GLY:N	2.90	0.40
1:M:8:LEU:CD1	1:M:90:PHE:CD1	3.04	0.40
1:M:157:ASP:H	2:M:401:ADP:PB	2.45	0.40
1:N:149:THR:CG2	1:N:150:GLY:N	2.82	0.40
1:O:224:GLU:OE1	1:O:224:GLU:N	2.51	0.40
1:P:8:LEU:CD1	1:P:90:PHE:CD1	3.04	0.40
1:P:173:HIS:CE1	1:Q:268:GLY:N	2.90	0.40
1:Q:34:ILE:CG2	1:Q:68:LYS:N	2.84	0.40
1:Q:135:ALA:CB	1:Q:140:LEU:HD21	2.49	0.40
1:S:143:TYR:CE2	1:U:45:VAL:CG2	3.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:287:ILE:HD12	1:V:208:ILE:HD13	1.96	0.40
1:U:164:PRO:HG2	1:U:174:ALA:CB	2.51	0.40
1:U:374:CYS:HB2	1:U:375:PHE:H	1.61	0.40
1:V:43:VAL:O	1:V:44:MET:CE	2.69	0.40
1:V:113:LYS:HB3	1:V:371:HIS:CD2	2.57	0.40
1:V:236:LEU:HD12	1:V:237:GLU:CA	2.51	0.40
1:W:183:ARG:HE	1:W:183:ARG:HB3	1.58	0.40
1:A:120:THR:HG23	1:A:132:MET:SD	2.62	0.40
1:B:44:MET:CG	1:B:45:VAL:N	2.75	0.40
1:C:8:LEU:CD1	1:C:90:PHE:CD1	3.04	0.40
1:C:43:VAL:O	1:C:44:MET:CE	2.69	0.40
1:C:236:LEU:CD1	1:C:237:GLU:CG	2.93	0.40
1:D:169:TYR:CE2	1:F:40:HIS:HB2	2.56	0.40
1:D:173:HIS:CE1	1:E:268:GLY:N	2.90	0.40
1:E:8:LEU:CD1	1:E:90:PHE:CD1	3.04	0.40
1:E:113:LYS:HB3	1:E:371:HIS:CD2	2.57	0.40
1:F:8:LEU:CD1	1:F:90:PHE:CD1	3.04	0.40
1:F:157:ASP:H	2:F:401:ADP:PB	2.45	0.40
1:G:335:ARG:O	1:G:338:SER:CB	2.69	0.40
1:I:43:VAL:O	1:I:44:MET:CE	2.69	0.40
1:I:110:LEU:CD1	1:I:177:ARG:HH11	2.32	0.40
1:I:113:LYS:HB3	1:I:371:HIS:CD2	2.57	0.40
1:K:39:ARG:NE	1:K:66:THR:CA	2.69	0.40
1:L:169:TYR:CE2	1:N:40:HIS:HB2	2.56	0.40
1:M:113:LYS:HB3	1:M:371:HIS:CD2	2.57	0.40
1:M:349:LEU:HD23	1:M:349:LEU:HA	1.80	0.40
1:O:113:LYS:HB3	1:O:371:HIS:CD2	2.57	0.40
1:O:157:ASP:H	2:O:401:ADP:PB	2.45	0.40
1:P:35:VAL:CG1	1:P:35:VAL:O	2.70	0.40
1:P:164:PRO:CG	1:P:174:ALA:HB3	2.51	0.40
1:Q:173:HIS:CE1	1:R:268:GLY:N	2.90	0.40
1:R:335:ARG:O	1:R:338:SER:CB	2.69	0.40
1:S:8:LEU:CD1	1:S:90:PHE:CD1	3.04	0.40
1:S:223:PHE:CZ	1:S:266:PHE:CZ	3.09	0.40
1:T:43:VAL:O	1:T:44:MET:CE	2.69	0.40
1:T:113:LYS:HB3	1:T:371:HIS:CD2	2.57	0.40
1:V:8:LEU:CD1	1:V:90:PHE:CD1	3.04	0.40
1:V:106:THR:HG22	1:V:140:LEU:HD11	2.01	0.40
1:V:121:GLN:HA	1:V:362:TYR:CZ	2.55	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	B	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	C	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	D	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	E	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	F	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	G	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	H	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	I	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	J	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	K	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	L	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	M	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	N	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	O	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	P	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	Q	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	R	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	S	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	T	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	U	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	V	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	W	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
All	All	8556/8625 (99%)	7567 (88%)	713 (8%)	276 (3%)	5	21

All (276) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	41	GLN
1	A	44	MET
1	B	3	ASP
1	B	41	GLN
1	B	44	MET
1	C	3	ASP
1	C	41	GLN
1	C	44	MET
1	D	3	ASP
1	D	41	GLN
1	D	44	MET
1	E	3	ASP
1	E	41	GLN
1	E	44	MET
1	F	3	ASP
1	F	41	GLN
1	F	44	MET
1	G	3	ASP
1	G	41	GLN
1	G	44	MET
1	H	3	ASP
1	H	41	GLN
1	H	44	MET
1	I	3	ASP
1	I	41	GLN
1	I	44	MET
1	J	3	ASP
1	J	41	GLN
1	J	44	MET
1	K	3	ASP
1	K	41	GLN
1	K	44	MET
1	L	3	ASP
1	L	41	GLN
1	L	44	MET
1	M	3	ASP
1	M	41	GLN
1	M	44	MET
1	N	3	ASP
1	N	41	GLN
1	N	44	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	O	3	ASP
1	O	41	GLN
1	O	44	MET
1	P	3	ASP
1	P	41	GLN
1	P	44	MET
1	Q	3	ASP
1	Q	41	GLN
1	Q	44	MET
1	R	3	ASP
1	R	41	GLN
1	R	44	MET
1	S	3	ASP
1	S	41	GLN
1	S	44	MET
1	T	3	ASP
1	T	41	GLN
1	T	44	MET
1	U	3	ASP
1	U	41	GLN
1	U	44	MET
1	V	3	ASP
1	V	41	GLN
1	V	44	MET
1	W	3	ASP
1	W	41	GLN
1	W	44	MET
1	A	4	GLU
1	A	55	GLY
1	A	374	CYS
1	B	4	GLU
1	B	55	GLY
1	B	374	CYS
1	C	4	GLU
1	C	55	GLY
1	C	374	CYS
1	D	4	GLU
1	D	55	GLY
1	D	374	CYS
1	E	4	GLU
1	E	55	GLY
1	E	374	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	4	GLU
1	F	55	GLY
1	F	374	CYS
1	G	4	GLU
1	G	55	GLY
1	G	374	CYS
1	H	4	GLU
1	H	55	GLY
1	H	374	CYS
1	I	4	GLU
1	I	55	GLY
1	I	374	CYS
1	J	4	GLU
1	J	55	GLY
1	J	374	CYS
1	K	4	GLU
1	K	55	GLY
1	K	374	CYS
1	L	4	GLU
1	L	55	GLY
1	L	374	CYS
1	M	4	GLU
1	M	55	GLY
1	M	374	CYS
1	N	4	GLU
1	N	55	GLY
1	N	374	CYS
1	O	4	GLU
1	O	55	GLY
1	O	374	CYS
1	P	4	GLU
1	P	55	GLY
1	P	374	CYS
1	Q	4	GLU
1	Q	55	GLY
1	Q	374	CYS
1	R	4	GLU
1	R	55	GLY
1	R	374	CYS
1	S	4	GLU
1	S	55	GLY
1	S	374	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	T	4	GLU
1	T	55	GLY
1	T	374	CYS
1	U	4	GLU
1	U	55	GLY
1	U	374	CYS
1	V	4	GLU
1	V	55	GLY
1	V	374	CYS
1	W	4	GLU
1	W	55	GLY
1	W	374	CYS
1	A	2	GLU
1	B	2	GLU
1	C	2	GLU
1	D	2	GLU
1	E	2	GLU
1	F	2	GLU
1	G	2	GLU
1	H	2	GLU
1	I	2	GLU
1	J	2	GLU
1	K	2	GLU
1	L	2	GLU
1	M	2	GLU
1	N	2	GLU
1	O	2	GLU
1	P	2	GLU
1	Q	2	GLU
1	R	2	GLU
1	S	2	GLU
1	T	2	GLU
1	U	2	GLU
1	V	2	GLU
1	W	2	GLU
1	A	43	VAL
1	A	54	VAL
1	B	43	VAL
1	B	54	VAL
1	C	43	VAL
1	C	54	VAL
1	D	43	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	54	VAL
1	E	43	VAL
1	E	54	VAL
1	F	43	VAL
1	F	54	VAL
1	G	43	VAL
1	G	54	VAL
1	H	43	VAL
1	H	54	VAL
1	I	43	VAL
1	I	54	VAL
1	J	43	VAL
1	J	54	VAL
1	K	43	VAL
1	K	54	VAL
1	L	43	VAL
1	L	54	VAL
1	M	43	VAL
1	M	54	VAL
1	N	43	VAL
1	N	54	VAL
1	O	43	VAL
1	O	54	VAL
1	P	43	VAL
1	P	54	VAL
1	Q	43	VAL
1	Q	54	VAL
1	R	43	VAL
1	R	54	VAL
1	S	43	VAL
1	S	54	VAL
1	T	43	VAL
1	T	54	VAL
1	U	43	VAL
1	U	54	VAL
1	V	43	VAL
1	V	54	VAL
1	W	43	VAL
1	W	54	VAL
1	A	58	ALA
1	C	58	ALA
1	D	58	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	58	ALA
1	H	58	ALA
1	I	58	ALA
1	J	58	ALA
1	L	58	ALA
1	N	58	ALA
1	O	58	ALA
1	P	58	ALA
1	Q	58	ALA
1	R	58	ALA
1	T	58	ALA
1	U	58	ALA
1	W	58	ALA
1	B	58	ALA
1	E	58	ALA
1	G	58	ALA
1	K	58	ALA
1	M	58	ALA
1	S	58	ALA
1	V	58	ALA
1	A	45	VAL
1	B	45	VAL
1	C	45	VAL
1	F	45	VAL
1	M	45	VAL
1	P	45	VAL
1	V	45	VAL
1	W	45	VAL
1	D	45	VAL
1	E	45	VAL
1	G	45	VAL
1	H	45	VAL
1	I	45	VAL
1	J	45	VAL
1	K	45	VAL
1	L	45	VAL
1	N	45	VAL
1	O	45	VAL
1	Q	45	VAL
1	R	45	VAL
1	S	45	VAL
1	T	45	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	U	45	VAL
1	A	370	VAL
1	B	370	VAL
1	C	370	VAL
1	D	370	VAL
1	E	370	VAL
1	F	370	VAL
1	G	370	VAL
1	H	370	VAL
1	I	370	VAL
1	J	370	VAL
1	K	370	VAL
1	L	370	VAL
1	M	370	VAL
1	N	370	VAL
1	O	370	VAL
1	P	370	VAL
1	Q	370	VAL
1	R	370	VAL
1	S	370	VAL
1	T	370	VAL
1	U	370	VAL
1	V	370	VAL
1	W	370	VAL

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	A	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	B	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	C	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	D	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	E	317/317 (100%)	280 (88%)	37 (12%)	4	16

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	G	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	H	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	I	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	J	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	K	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	L	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	M	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	N	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	O	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	P	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	Q	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	R	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	S	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	T	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	U	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	V	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	W	317/317 (100%)	280 (88%)	37 (12%)	4	16
All	All	7291/7291 (100%)	6440 (88%)	851 (12%)	7	16

All (851) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	LEU
1	A	33	SER
1	A	35	VAL
1	A	37	ARG
1	A	45	VAL
1	A	49	GLN
1	A	51	ASP
1	A	56	ASP
1	A	57	GLU
1	A	66	THR
1	A	68	LYS
1	A	113	LYS
1	A	132	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	141	SER
1	A	143	TYR
1	A	145	SER
1	A	147	ARG
1	A	148	THR
1	A	149	THR
1	A	167	GLU
1	A	171	LEU
1	A	176	MET
1	A	179	ASP
1	A	180	LEU
1	A	183	ARG
1	A	208	ILE
1	A	232	SER
1	A	236	LEU
1	A	244	ASP
1	A	269	MET
1	A	286	ASP
1	A	335	ARG
1	A	350	SER
1	A	357	ILE
1	A	370	VAL
1	A	372	ARG
1	A	373	LYS
1	B	8	LEU
1	B	33	SER
1	B	35	VAL
1	B	37	ARG
1	B	45	VAL
1	B	49	GLN
1	B	51	ASP
1	B	56	ASP
1	B	57	GLU
1	B	66	THR
1	B	68	LYS
1	B	113	LYS
1	B	132	MET
1	B	141	SER
1	B	143	TYR
1	B	145	SER
1	B	147	ARG
1	B	148	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	149	THR
1	B	167	GLU
1	B	171	LEU
1	B	176	MET
1	B	179	ASP
1	B	180	LEU
1	B	183	ARG
1	B	208	ILE
1	B	232	SER
1	B	236	LEU
1	B	244	ASP
1	B	269	MET
1	B	286	ASP
1	B	335	ARG
1	B	350	SER
1	B	357	ILE
1	B	370	VAL
1	B	372	ARG
1	B	373	LYS
1	C	8	LEU
1	C	33	SER
1	C	35	VAL
1	C	37	ARG
1	C	45	VAL
1	C	49	GLN
1	C	51	ASP
1	C	56	ASP
1	C	57	GLU
1	C	66	THR
1	C	68	LYS
1	C	113	LYS
1	C	132	MET
1	C	141	SER
1	C	143	TYR
1	C	145	SER
1	C	147	ARG
1	C	148	THR
1	C	149	THR
1	C	167	GLU
1	C	171	LEU
1	C	176	MET
1	C	179	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	180	LEU
1	C	183	ARG
1	C	208	ILE
1	C	232	SER
1	C	236	LEU
1	C	244	ASP
1	C	269	MET
1	C	286	ASP
1	C	335	ARG
1	C	350	SER
1	C	357	ILE
1	C	370	VAL
1	C	372	ARG
1	C	373	LYS
1	D	8	LEU
1	D	33	SER
1	D	35	VAL
1	D	37	ARG
1	D	45	VAL
1	D	49	GLN
1	D	51	ASP
1	D	56	ASP
1	D	57	GLU
1	D	66	THR
1	D	68	LYS
1	D	113	LYS
1	D	132	MET
1	D	141	SER
1	D	143	TYR
1	D	145	SER
1	D	147	ARG
1	D	148	THR
1	D	149	THR
1	D	167	GLU
1	D	171	LEU
1	D	176	MET
1	D	179	ASP
1	D	180	LEU
1	D	183	ARG
1	D	208	ILE
1	D	232	SER
1	D	236	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	244	ASP
1	D	269	MET
1	D	286	ASP
1	D	335	ARG
1	D	350	SER
1	D	357	ILE
1	D	370	VAL
1	D	372	ARG
1	D	373	LYS
1	E	8	LEU
1	E	33	SER
1	E	35	VAL
1	E	37	ARG
1	E	45	VAL
1	E	49	GLN
1	E	51	ASP
1	E	56	ASP
1	E	57	GLU
1	E	66	THR
1	E	68	LYS
1	E	113	LYS
1	E	132	MET
1	E	141	SER
1	E	143	TYR
1	E	145	SER
1	E	147	ARG
1	E	148	THR
1	E	149	THR
1	E	167	GLU
1	E	171	LEU
1	E	176	MET
1	E	179	ASP
1	E	180	LEU
1	E	183	ARG
1	E	208	ILE
1	E	232	SER
1	E	236	LEU
1	E	244	ASP
1	E	269	MET
1	E	286	ASP
1	E	335	ARG
1	E	350	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	357	ILE
1	E	370	VAL
1	E	372	ARG
1	E	373	LYS
1	F	8	LEU
1	F	33	SER
1	F	35	VAL
1	F	37	ARG
1	F	45	VAL
1	F	49	GLN
1	F	51	ASP
1	F	56	ASP
1	F	57	GLU
1	F	66	THR
1	F	68	LYS
1	F	113	LYS
1	F	132	MET
1	F	141	SER
1	F	143	TYR
1	F	145	SER
1	F	147	ARG
1	F	148	THR
1	F	149	THR
1	F	167	GLU
1	F	171	LEU
1	F	176	MET
1	F	179	ASP
1	F	180	LEU
1	F	183	ARG
1	F	208	ILE
1	F	232	SER
1	F	236	LEU
1	F	244	ASP
1	F	269	MET
1	F	286	ASP
1	F	335	ARG
1	F	350	SER
1	F	357	ILE
1	F	370	VAL
1	F	372	ARG
1	F	373	LYS
1	G	8	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	33	SER
1	G	35	VAL
1	G	37	ARG
1	G	45	VAL
1	G	49	GLN
1	G	51	ASP
1	G	56	ASP
1	G	57	GLU
1	G	66	THR
1	G	68	LYS
1	G	113	LYS
1	G	132	MET
1	G	141	SER
1	G	143	TYR
1	G	145	SER
1	G	147	ARG
1	G	148	THR
1	G	149	THR
1	G	167	GLU
1	G	171	LEU
1	G	176	MET
1	G	179	ASP
1	G	180	LEU
1	G	183	ARG
1	G	208	ILE
1	G	232	SER
1	G	236	LEU
1	G	244	ASP
1	G	269	MET
1	G	286	ASP
1	G	335	ARG
1	G	350	SER
1	G	357	ILE
1	G	370	VAL
1	G	372	ARG
1	G	373	LYS
1	H	8	LEU
1	H	33	SER
1	H	35	VAL
1	H	37	ARG
1	H	45	VAL
1	H	49	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	51	ASP
1	H	56	ASP
1	H	57	GLU
1	H	66	THR
1	H	68	LYS
1	H	113	LYS
1	H	132	MET
1	H	141	SER
1	H	143	TYR
1	H	145	SER
1	H	147	ARG
1	H	148	THR
1	H	149	THR
1	H	167	GLU
1	H	171	LEU
1	H	176	MET
1	H	179	ASP
1	H	180	LEU
1	H	183	ARG
1	H	208	ILE
1	H	232	SER
1	H	236	LEU
1	H	244	ASP
1	H	269	MET
1	H	286	ASP
1	H	335	ARG
1	H	350	SER
1	H	357	ILE
1	H	370	VAL
1	H	372	ARG
1	H	373	LYS
1	I	8	LEU
1	I	33	SER
1	I	35	VAL
1	I	37	ARG
1	I	45	VAL
1	I	49	GLN
1	I	51	ASP
1	I	56	ASP
1	I	57	GLU
1	I	66	THR
1	I	68	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	113	LYS
1	I	132	MET
1	I	141	SER
1	I	143	TYR
1	I	145	SER
1	I	147	ARG
1	I	148	THR
1	I	149	THR
1	I	167	GLU
1	I	171	LEU
1	I	176	MET
1	I	179	ASP
1	I	180	LEU
1	I	183	ARG
1	I	208	ILE
1	I	232	SER
1	I	236	LEU
1	I	244	ASP
1	I	269	MET
1	I	286	ASP
1	I	335	ARG
1	I	350	SER
1	I	357	ILE
1	I	370	VAL
1	I	372	ARG
1	I	373	LYS
1	J	8	LEU
1	J	33	SER
1	J	35	VAL
1	J	37	ARG
1	J	45	VAL
1	J	49	GLN
1	J	51	ASP
1	J	56	ASP
1	J	57	GLU
1	J	66	THR
1	J	68	LYS
1	J	113	LYS
1	J	132	MET
1	J	141	SER
1	J	143	TYR
1	J	145	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	147	ARG
1	J	148	THR
1	J	149	THR
1	J	167	GLU
1	J	171	LEU
1	J	176	MET
1	J	179	ASP
1	J	180	LEU
1	J	183	ARG
1	J	208	ILE
1	J	232	SER
1	J	236	LEU
1	J	244	ASP
1	J	269	MET
1	J	286	ASP
1	J	335	ARG
1	J	350	SER
1	J	357	ILE
1	J	370	VAL
1	J	372	ARG
1	J	373	LYS
1	K	8	LEU
1	K	33	SER
1	K	35	VAL
1	K	37	ARG
1	K	45	VAL
1	K	49	GLN
1	K	51	ASP
1	K	56	ASP
1	K	57	GLU
1	K	66	THR
1	K	68	LYS
1	K	113	LYS
1	K	132	MET
1	K	141	SER
1	K	143	TYR
1	K	145	SER
1	K	147	ARG
1	K	148	THR
1	K	149	THR
1	K	167	GLU
1	K	171	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	176	MET
1	K	179	ASP
1	K	180	LEU
1	K	183	ARG
1	K	208	ILE
1	K	232	SER
1	K	236	LEU
1	K	244	ASP
1	K	269	MET
1	K	286	ASP
1	K	335	ARG
1	K	350	SER
1	K	357	ILE
1	K	370	VAL
1	K	372	ARG
1	K	373	LYS
1	L	8	LEU
1	L	33	SER
1	L	35	VAL
1	L	37	ARG
1	L	45	VAL
1	L	49	GLN
1	L	51	ASP
1	L	56	ASP
1	L	57	GLU
1	L	66	THR
1	L	68	LYS
1	L	113	LYS
1	L	132	MET
1	L	141	SER
1	L	143	TYR
1	L	145	SER
1	L	147	ARG
1	L	148	THR
1	L	149	THR
1	L	167	GLU
1	L	171	LEU
1	L	176	MET
1	L	179	ASP
1	L	180	LEU
1	L	183	ARG
1	L	208	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	232	SER
1	L	236	LEU
1	L	244	ASP
1	L	269	MET
1	L	286	ASP
1	L	335	ARG
1	L	350	SER
1	L	357	ILE
1	L	370	VAL
1	L	372	ARG
1	L	373	LYS
1	M	8	LEU
1	M	33	SER
1	M	35	VAL
1	M	37	ARG
1	M	45	VAL
1	M	49	GLN
1	M	51	ASP
1	M	56	ASP
1	M	57	GLU
1	M	66	THR
1	M	68	LYS
1	M	113	LYS
1	M	132	MET
1	M	141	SER
1	M	143	TYR
1	M	145	SER
1	M	147	ARG
1	M	148	THR
1	M	149	THR
1	M	167	GLU
1	M	171	LEU
1	M	176	MET
1	M	179	ASP
1	M	180	LEU
1	M	183	ARG
1	M	208	ILE
1	M	232	SER
1	M	236	LEU
1	M	244	ASP
1	M	269	MET
1	M	286	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	335	ARG
1	M	350	SER
1	M	357	ILE
1	M	370	VAL
1	M	372	ARG
1	M	373	LYS
1	N	8	LEU
1	N	33	SER
1	N	35	VAL
1	N	37	ARG
1	N	45	VAL
1	N	49	GLN
1	N	51	ASP
1	N	56	ASP
1	N	57	GLU
1	N	66	THR
1	N	68	LYS
1	N	113	LYS
1	N	132	MET
1	N	141	SER
1	N	143	TYR
1	N	145	SER
1	N	147	ARG
1	N	148	THR
1	N	149	THR
1	N	167	GLU
1	N	171	LEU
1	N	176	MET
1	N	179	ASP
1	N	180	LEU
1	N	183	ARG
1	N	208	ILE
1	N	232	SER
1	N	236	LEU
1	N	244	ASP
1	N	269	MET
1	N	286	ASP
1	N	335	ARG
1	N	350	SER
1	N	357	ILE
1	N	370	VAL
1	N	372	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	373	LYS
1	O	8	LEU
1	O	33	SER
1	O	35	VAL
1	O	37	ARG
1	O	45	VAL
1	O	49	GLN
1	O	51	ASP
1	O	56	ASP
1	O	57	GLU
1	O	66	THR
1	O	68	LYS
1	O	113	LYS
1	O	132	MET
1	O	141	SER
1	O	143	TYR
1	O	145	SER
1	O	147	ARG
1	O	148	THR
1	O	149	THR
1	O	167	GLU
1	O	171	LEU
1	O	176	MET
1	O	179	ASP
1	O	180	LEU
1	O	183	ARG
1	O	208	ILE
1	O	232	SER
1	O	236	LEU
1	O	244	ASP
1	O	269	MET
1	O	286	ASP
1	O	335	ARG
1	O	350	SER
1	O	357	ILE
1	O	370	VAL
1	O	372	ARG
1	O	373	LYS
1	P	8	LEU
1	P	33	SER
1	P	35	VAL
1	P	37	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	45	VAL
1	P	49	GLN
1	P	51	ASP
1	P	56	ASP
1	P	57	GLU
1	P	66	THR
1	P	68	LYS
1	P	113	LYS
1	P	132	MET
1	P	141	SER
1	P	143	TYR
1	P	145	SER
1	P	147	ARG
1	P	148	THR
1	P	149	THR
1	P	167	GLU
1	P	171	LEU
1	P	176	MET
1	P	179	ASP
1	P	180	LEU
1	P	183	ARG
1	P	208	ILE
1	P	232	SER
1	P	236	LEU
1	P	244	ASP
1	P	269	MET
1	P	286	ASP
1	P	335	ARG
1	P	350	SER
1	P	357	ILE
1	P	370	VAL
1	P	372	ARG
1	P	373	LYS
1	Q	8	LEU
1	Q	33	SER
1	Q	35	VAL
1	Q	37	ARG
1	Q	45	VAL
1	Q	49	GLN
1	Q	51	ASP
1	Q	56	ASP
1	Q	57	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	66	THR
1	Q	68	LYS
1	Q	113	LYS
1	Q	132	MET
1	Q	141	SER
1	Q	143	TYR
1	Q	145	SER
1	Q	147	ARG
1	Q	148	THR
1	Q	149	THR
1	Q	167	GLU
1	Q	171	LEU
1	Q	176	MET
1	Q	179	ASP
1	Q	180	LEU
1	Q	183	ARG
1	Q	208	ILE
1	Q	232	SER
1	Q	236	LEU
1	Q	244	ASP
1	Q	269	MET
1	Q	286	ASP
1	Q	335	ARG
1	Q	350	SER
1	Q	357	ILE
1	Q	370	VAL
1	Q	372	ARG
1	Q	373	LYS
1	R	8	LEU
1	R	33	SER
1	R	35	VAL
1	R	37	ARG
1	R	45	VAL
1	R	49	GLN
1	R	51	ASP
1	R	56	ASP
1	R	57	GLU
1	R	66	THR
1	R	68	LYS
1	R	113	LYS
1	R	132	MET
1	R	141	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	R	143	TYR
1	R	145	SER
1	R	147	ARG
1	R	148	THR
1	R	149	THR
1	R	167	GLU
1	R	171	LEU
1	R	176	MET
1	R	179	ASP
1	R	180	LEU
1	R	183	ARG
1	R	208	ILE
1	R	232	SER
1	R	236	LEU
1	R	244	ASP
1	R	269	MET
1	R	286	ASP
1	R	335	ARG
1	R	350	SER
1	R	357	ILE
1	R	370	VAL
1	R	372	ARG
1	R	373	LYS
1	S	8	LEU
1	S	33	SER
1	S	35	VAL
1	S	37	ARG
1	S	45	VAL
1	S	49	GLN
1	S	51	ASP
1	S	56	ASP
1	S	57	GLU
1	S	66	THR
1	S	68	LYS
1	S	113	LYS
1	S	132	MET
1	S	141	SER
1	S	143	TYR
1	S	145	SER
1	S	147	ARG
1	S	148	THR
1	S	149	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	S	167	GLU
1	S	171	LEU
1	S	176	MET
1	S	179	ASP
1	S	180	LEU
1	S	183	ARG
1	S	208	ILE
1	S	232	SER
1	S	236	LEU
1	S	244	ASP
1	S	269	MET
1	S	286	ASP
1	S	335	ARG
1	S	350	SER
1	S	357	ILE
1	S	370	VAL
1	S	372	ARG
1	S	373	LYS
1	T	8	LEU
1	T	33	SER
1	T	35	VAL
1	T	37	ARG
1	T	45	VAL
1	T	49	GLN
1	T	51	ASP
1	T	56	ASP
1	T	57	GLU
1	T	66	THR
1	T	68	LYS
1	T	113	LYS
1	T	132	MET
1	T	141	SER
1	T	143	TYR
1	T	145	SER
1	T	147	ARG
1	T	148	THR
1	T	149	THR
1	T	167	GLU
1	T	171	LEU
1	T	176	MET
1	T	179	ASP
1	T	180	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	T	183	ARG
1	T	208	ILE
1	T	232	SER
1	T	236	LEU
1	T	244	ASP
1	T	269	MET
1	T	286	ASP
1	T	335	ARG
1	T	350	SER
1	T	357	ILE
1	T	370	VAL
1	T	372	ARG
1	T	373	LYS
1	U	8	LEU
1	U	33	SER
1	U	35	VAL
1	U	37	ARG
1	U	45	VAL
1	U	49	GLN
1	U	51	ASP
1	U	56	ASP
1	U	57	GLU
1	U	66	THR
1	U	68	LYS
1	U	113	LYS
1	U	132	MET
1	U	141	SER
1	U	143	TYR
1	U	145	SER
1	U	147	ARG
1	U	148	THR
1	U	149	THR
1	U	167	GLU
1	U	171	LEU
1	U	176	MET
1	U	179	ASP
1	U	180	LEU
1	U	183	ARG
1	U	208	ILE
1	U	232	SER
1	U	236	LEU
1	U	244	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	U	269	MET
1	U	286	ASP
1	U	335	ARG
1	U	350	SER
1	U	357	ILE
1	U	370	VAL
1	U	372	ARG
1	U	373	LYS
1	V	8	LEU
1	V	33	SER
1	V	35	VAL
1	V	37	ARG
1	V	45	VAL
1	V	49	GLN
1	V	51	ASP
1	V	56	ASP
1	V	57	GLU
1	V	66	THR
1	V	68	LYS
1	V	113	LYS
1	V	132	MET
1	V	141	SER
1	V	143	TYR
1	V	145	SER
1	V	147	ARG
1	V	148	THR
1	V	149	THR
1	V	167	GLU
1	V	171	LEU
1	V	176	MET
1	V	179	ASP
1	V	180	LEU
1	V	183	ARG
1	V	208	ILE
1	V	232	SER
1	V	236	LEU
1	V	244	ASP
1	V	269	MET
1	V	286	ASP
1	V	335	ARG
1	V	350	SER
1	V	357	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	V	370	VAL
1	V	372	ARG
1	V	373	LYS
1	W	8	LEU
1	W	33	SER
1	W	35	VAL
1	W	37	ARG
1	W	45	VAL
1	W	49	GLN
1	W	51	ASP
1	W	56	ASP
1	W	57	GLU
1	W	66	THR
1	W	68	LYS
1	W	113	LYS
1	W	132	MET
1	W	141	SER
1	W	143	TYR
1	W	145	SER
1	W	147	ARG
1	W	148	THR
1	W	149	THR
1	W	167	GLU
1	W	171	LEU
1	W	176	MET
1	W	179	ASP
1	W	180	LEU
1	W	183	ARG
1	W	208	ILE
1	W	232	SER
1	W	236	LEU
1	W	244	ASP
1	W	269	MET
1	W	286	ASP
1	W	335	ARG
1	W	350	SER
1	W	357	ILE
1	W	370	VAL
1	W	372	ARG
1	W	373	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (136) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	49	GLN
1	A	59	GLN
1	A	92	ASN
1	A	121	GLN
1	A	173	HIS
1	A	353	GLN
1	B	49	GLN
1	B	59	GLN
1	B	92	ASN
1	B	121	GLN
1	B	173	HIS
1	B	353	GLN
1	C	49	GLN
1	C	59	GLN
1	C	92	ASN
1	C	121	GLN
1	C	173	HIS
1	C	353	GLN
1	D	49	GLN
1	D	59	GLN
1	D	92	ASN
1	D	121	GLN
1	D	173	HIS
1	D	353	GLN
1	E	49	GLN
1	E	59	GLN
1	E	92	ASN
1	E	121	GLN
1	E	173	HIS
1	E	353	GLN
1	F	49	GLN
1	F	59	GLN
1	F	92	ASN
1	F	121	GLN
1	F	353	GLN
1	G	49	GLN
1	G	59	GLN
1	G	92	ASN
1	G	121	GLN
1	G	173	HIS
1	G	353	GLN
1	H	49	GLN
1	H	59	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	92	ASN
1	H	121	GLN
1	H	173	HIS
1	H	353	GLN
1	I	49	GLN
1	I	59	GLN
1	I	92	ASN
1	I	121	GLN
1	I	173	HIS
1	I	353	GLN
1	J	49	GLN
1	J	59	GLN
1	J	92	ASN
1	J	121	GLN
1	J	173	HIS
1	J	353	GLN
1	K	49	GLN
1	K	59	GLN
1	K	92	ASN
1	K	121	GLN
1	K	173	HIS
1	K	353	GLN
1	L	49	GLN
1	L	59	GLN
1	L	92	ASN
1	L	121	GLN
1	L	173	HIS
1	L	353	GLN
1	M	49	GLN
1	M	59	GLN
1	M	92	ASN
1	M	121	GLN
1	M	173	HIS
1	M	353	GLN
1	N	49	GLN
1	N	59	GLN
1	N	92	ASN
1	N	121	GLN
1	N	173	HIS
1	N	353	GLN
1	O	49	GLN
1	O	59	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	O	92	ASN
1	O	121	GLN
1	O	173	HIS
1	O	353	GLN
1	P	49	GLN
1	P	59	GLN
1	P	92	ASN
1	P	121	GLN
1	P	173	HIS
1	P	353	GLN
1	Q	49	GLN
1	Q	59	GLN
1	Q	92	ASN
1	Q	121	GLN
1	Q	173	HIS
1	Q	353	GLN
1	R	49	GLN
1	R	59	GLN
1	R	92	ASN
1	R	121	GLN
1	R	173	HIS
1	R	353	GLN
1	S	49	GLN
1	S	59	GLN
1	S	92	ASN
1	S	121	GLN
1	S	173	HIS
1	S	353	GLN
1	T	49	GLN
1	T	59	GLN
1	T	92	ASN
1	T	121	GLN
1	T	173	HIS
1	T	353	GLN
1	U	49	GLN
1	U	59	GLN
1	U	92	ASN
1	U	121	GLN
1	U	173	HIS
1	U	353	GLN
1	V	49	GLN
1	V	59	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	V	92	ASN
1	V	121	GLN
1	V	173	HIS
1	V	353	GLN
1	W	49	GLN
1	W	59	GLN
1	W	92	ASN
1	W	121	GLN
1	W	353	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

23 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	HIC	D	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	H	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	U	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	T	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	M	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	S	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	L	73	1	8,11,12	1.05	0	6,14,16	1.17	1 (16%)
1	HIC	G	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	V	73	1	8,11,12	1.04	0	6,14,16	1.18	1 (16%)
1	HIC	E	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	I	73	1	8,11,12	1.05	0	6,14,16	1.21	1 (16%)
1	HIC	A	73	1	8,11,12	1.04	0	6,14,16	1.20	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	HIC	R	73	1	8,11,12	1.04	0	6,14,16	1.17	1 (16%)
1	HIC	W	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	O	73	1	8,11,12	1.03	0	6,14,16	1.18	1 (16%)
1	HIC	C	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	P	73	1	8,11,12	1.04	0	6,14,16	1.18	1 (16%)
1	HIC	N	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	B	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	F	73	1	8,11,12	1.04	0	6,14,16	1.19	1 (16%)
1	HIC	J	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	K	73	1	8,11,12	1.04	0	6,14,16	1.20	1 (16%)
1	HIC	Q	73	1	8,11,12	1.06	0	6,14,16	1.18	1 (16%)

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
1	HIC	D	73	1	-	2/5/6/8	0/1/1/1
1	HIC	H	73	1	-	2/5/6/8	0/1/1/1
1	HIC	U	73	1	-	2/5/6/8	0/1/1/1
1	HIC	T	73	1	-	2/5/6/8	0/1/1/1
1	HIC	M	73	1	-	2/5/6/8	0/1/1/1
1	HIC	S	73	1	-	2/5/6/8	0/1/1/1
1	HIC	L	73	1	-	2/5/6/8	0/1/1/1
1	HIC	G	73	1	-	2/5/6/8	0/1/1/1
1	HIC	V	73	1	-	2/5/6/8	0/1/1/1
1	HIC	E	73	1	-	2/5/6/8	0/1/1/1
1	HIC	I	73	1	-	2/5/6/8	0/1/1/1
1	HIC	A	73	1	-	2/5/6/8	0/1/1/1
1	HIC	R	73	1	-	2/5/6/8	0/1/1/1
1	HIC	W	73	1	-	2/5/6/8	0/1/1/1
1	HIC	O	73	1	-	2/5/6/8	0/1/1/1
1	HIC	C	73	1	-	2/5/6/8	0/1/1/1
1	HIC	P	73	1	-	2/5/6/8	0/1/1/1
1	HIC	N	73	1	-	2/5/6/8	0/1/1/1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HIC	B	73	1	-	2/5/6/8	0/1/1/1
1	HIC	F	73	1	-	2/5/6/8	0/1/1/1
1	HIC	J	73	1	-	2/5/6/8	0/1/1/1
1	HIC	K	73	1	-	2/5/6/8	0/1/1/1
1	HIC	Q	73	1	-	2/5/6/8	0/1/1/1

There are no bond length outliers.

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	73	HIC	CG-CD2-NE2	2.27	110.23	107.78
1	K	73	HIC	CG-CD2-NE2	2.25	110.21	107.78
1	F	73	HIC	CG-CD2-NE2	2.24	110.21	107.78
1	A	73	HIC	CG-CD2-NE2	2.24	110.20	107.78
1	B	73	HIC	CG-CD2-NE2	2.23	110.20	107.78
1	H	73	HIC	CG-CD2-NE2	2.23	110.19	107.78
1	U	73	HIC	CG-CD2-NE2	2.23	110.19	107.78
1	D	73	HIC	CG-CD2-NE2	2.22	110.18	107.78
1	Q	73	HIC	CG-CD2-NE2	2.22	110.18	107.78
1	S	73	HIC	CG-CD2-NE2	2.22	110.18	107.78
1	O	73	HIC	CG-CD2-NE2	2.22	110.18	107.78
1	W	73	HIC	CG-CD2-NE2	2.22	110.18	107.78
1	V	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	G	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	N	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	T	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	E	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	J	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	M	73	HIC	CG-CD2-NE2	2.20	110.17	107.78
1	C	73	HIC	CG-CD2-NE2	2.20	110.16	107.78
1	P	73	HIC	CG-CD2-NE2	2.19	110.15	107.78
1	L	73	HIC	CG-CD2-NE2	2.18	110.14	107.78
1	R	73	HIC	CG-CD2-NE2	2.17	110.13	107.78

There are no chirality outliers.

All (46) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	73	HIC	O-C-CA-CB
1	A	73	HIC	CA-CB-CG-ND1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
1	B	73	HIC	O-C-CA-CB
1	B	73	HIC	CA-CB-CG-ND1
1	C	73	HIC	O-C-CA-CB
1	C	73	HIC	CA-CB-CG-ND1
1	D	73	HIC	O-C-CA-CB
1	D	73	HIC	CA-CB-CG-ND1
1	E	73	HIC	O-C-CA-CB
1	E	73	HIC	CA-CB-CG-ND1
1	F	73	HIC	O-C-CA-CB
1	F	73	HIC	CA-CB-CG-ND1
1	G	73	HIC	O-C-CA-CB
1	G	73	HIC	CA-CB-CG-ND1
1	H	73	HIC	O-C-CA-CB
1	H	73	HIC	CA-CB-CG-ND1
1	I	73	HIC	O-C-CA-CB
1	I	73	HIC	CA-CB-CG-ND1
1	J	73	HIC	O-C-CA-CB
1	J	73	HIC	CA-CB-CG-ND1
1	K	73	HIC	O-C-CA-CB
1	K	73	HIC	CA-CB-CG-ND1
1	L	73	HIC	O-C-CA-CB
1	L	73	HIC	CA-CB-CG-ND1
1	M	73	HIC	O-C-CA-CB
1	M	73	HIC	CA-CB-CG-ND1
1	N	73	HIC	O-C-CA-CB
1	N	73	HIC	CA-CB-CG-ND1
1	O	73	HIC	O-C-CA-CB
1	O	73	HIC	CA-CB-CG-ND1
1	P	73	HIC	O-C-CA-CB
1	P	73	HIC	CA-CB-CG-ND1
1	Q	73	HIC	O-C-CA-CB
1	Q	73	HIC	CA-CB-CG-ND1
1	R	73	HIC	O-C-CA-CB
1	R	73	HIC	CA-CB-CG-ND1
1	S	73	HIC	O-C-CA-CB
1	S	73	HIC	CA-CB-CG-ND1
1	T	73	HIC	O-C-CA-CB
1	T	73	HIC	CA-CB-CG-ND1
1	U	73	HIC	O-C-CA-CB
1	U	73	HIC	CA-CB-CG-ND1
1	V	73	HIC	O-C-CA-CB
1	V	73	HIC	CA-CB-CG-ND1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
1	W	73	HIC	O-C-CA-CB
1	W	73	HIC	CA-CB-CG-ND1

There are no ring outliers.

23 monomers are involved in 43 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	73	HIC	2	0
1	H	73	HIC	2	0
1	U	73	HIC	2	0
1	T	73	HIC	1	0
1	M	73	HIC	2	0
1	S	73	HIC	2	0
1	L	73	HIC	2	0
1	G	73	HIC	2	0
1	V	73	HIC	2	0
1	E	73	HIC	2	0
1	I	73	HIC	2	0
1	A	73	HIC	2	0
1	R	73	HIC	1	0
1	W	73	HIC	2	0
1	O	73	HIC	2	0
1	C	73	HIC	2	0
1	P	73	HIC	1	0
1	N	73	HIC	2	0
1	B	73	HIC	2	0
1	F	73	HIC	2	0
1	J	73	HIC	2	0
1	K	73	HIC	2	0
1	Q	73	HIC	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

23 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	ADP	O	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	E	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	G	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	N	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	I	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	C	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	A	401	-	24,29,29	1.19	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	D	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	T	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	U	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	Q	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	L	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	V	401	-	24,29,29	1.19	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	F	401	-	24,29,29	1.19	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	J	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	M	401	-	24,29,29	1.19	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	S	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	R	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	H	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.40	4 (13%)
2	ADP	P	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	W	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	B	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	K	401	-	24,29,29	1.20	3 (12%)	29,45,45	1.41	4 (13%)

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	ADP	O	401	-	-	0/12/32/32	0/3/3/3
2	ADP	E	401	-	-	0/12/32/32	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ADP	G	401	-	-	0/12/32/32	0/3/3/3
2	ADP	N	401	-	-	0/12/32/32	0/3/3/3
2	ADP	I	401	-	-	0/12/32/32	0/3/3/3
2	ADP	C	401	-	-	0/12/32/32	0/3/3/3
2	ADP	A	401	-	-	0/12/32/32	0/3/3/3
2	ADP	D	401	-	-	0/12/32/32	0/3/3/3
2	ADP	T	401	-	-	0/12/32/32	0/3/3/3
2	ADP	U	401	-	-	0/12/32/32	0/3/3/3
2	ADP	Q	401	-	-	0/12/32/32	0/3/3/3
2	ADP	L	401	-	-	0/12/32/32	0/3/3/3
2	ADP	V	401	-	-	0/12/32/32	0/3/3/3
2	ADP	F	401	-	-	0/12/32/32	0/3/3/3
2	ADP	J	401	-	-	0/12/32/32	0/3/3/3
2	ADP	M	401	-	-	0/12/32/32	0/3/3/3
2	ADP	S	401	-	-	0/12/32/32	0/3/3/3
2	ADP	R	401	-	-	0/12/32/32	0/3/3/3
2	ADP	H	401	-	-	0/12/32/32	0/3/3/3
2	ADP	P	401	-	-	0/12/32/32	0/3/3/3
2	ADP	W	401	-	-	0/12/32/32	0/3/3/3
2	ADP	B	401	-	-	0/12/32/32	0/3/3/3
2	ADP	K	401	-	-	0/12/32/32	0/3/3/3

All (33) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	S	401	ADP	C2-N1	3.03	1.39	1.33
2	E	401	ADP	C2-N1	3.01	1.39	1.33
2	P	401	ADP	C2-N1	3.00	1.39	1.33
2	Q	401	ADP	C2-N1	3.00	1.39	1.33
2	K	401	ADP	C2-N1	2.99	1.39	1.33
2	G	401	ADP	C2-N1	2.99	1.39	1.33
2	J	401	ADP	C2-N1	2.99	1.39	1.33
2	C	401	ADP	C2-N1	2.99	1.39	1.33
2	L	401	ADP	C2-N1	2.99	1.39	1.33
2	O	401	ADP	C2-N1	2.98	1.39	1.33
2	U	401	ADP	C2-N1	2.98	1.39	1.33
2	M	401	ADP	C2-N1	2.98	1.39	1.33
2	W	401	ADP	C2-N1	2.98	1.39	1.33
2	R	401	ADP	C2-N1	2.98	1.39	1.33
2	I	401	ADP	C2-N1	2.98	1.39	1.33
2	T	401	ADP	C2-N1	2.97	1.39	1.33
2	H	401	ADP	C2-N1	2.96	1.39	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	401	ADP	C2-N1	2.96	1.39	1.33
2	N	401	ADP	C2-N1	2.96	1.39	1.33
2	D	401	ADP	C2-N1	2.95	1.39	1.33
2	V	401	ADP	C2-N1	2.94	1.39	1.33
2	A	401	ADP	C2-N1	2.93	1.39	1.33
2	F	401	ADP	C2-N1	2.93	1.39	1.33
2	G	401	ADP	C2'-C1'	-2.02	1.50	1.53
2	N	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	K	401	ADP	C8-N7	-2.01	1.31	1.34
2	E	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	J	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	C	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	K	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	L	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	I	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	H	401	ADP	C2'-C1'	-2.00	1.50	1.53

All (92) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	401	ADP	C4-C5-N7	3.95	113.52	109.40
2	L	401	ADP	C4-C5-N7	3.93	113.50	109.40
2	Q	401	ADP	C4-C5-N7	3.93	113.49	109.40
2	J	401	ADP	C4-C5-N7	3.92	113.49	109.40
2	C	401	ADP	C4-C5-N7	3.92	113.49	109.40
2	N	401	ADP	C4-C5-N7	3.92	113.49	109.40
2	R	401	ADP	C4-C5-N7	3.92	113.48	109.40
2	D	401	ADP	C4-C5-N7	3.92	113.48	109.40
2	G	401	ADP	C4-C5-N7	3.92	113.48	109.40
2	A	401	ADP	C4-C5-N7	3.91	113.48	109.40
2	T	401	ADP	C4-C5-N7	3.91	113.48	109.40
2	U	401	ADP	C4-C5-N7	3.91	113.47	109.40
2	B	401	ADP	C4-C5-N7	3.90	113.47	109.40
2	H	401	ADP	C4-C5-N7	3.90	113.46	109.40
2	E	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	M	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	V	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	S	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	F	401	ADP	C4-C5-N7	3.88	113.45	109.40
2	I	401	ADP	C4-C5-N7	3.88	113.44	109.40
2	K	401	ADP	C4-C5-N7	3.87	113.44	109.40
2	P	401	ADP	C4-C5-N7	3.87	113.43	109.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	W	401	ADP	C4-C5-N7	3.85	113.41	109.40
2	G	401	ADP	N3-C2-N1	-2.22	125.20	128.68
2	K	401	ADP	N3-C2-N1	-2.22	125.21	128.68
2	F	401	ADP	C2-N1-C6	2.21	122.53	118.75
2	G	401	ADP	C2-N1-C6	2.20	122.52	118.75
2	E	401	ADP	N3-C2-N1	-2.20	125.23	128.68
2	T	401	ADP	N3-C2-N1	-2.20	125.24	128.68
2	K	401	ADP	C2-N1-C6	2.20	122.52	118.75
2	C	401	ADP	N3-C2-N1	-2.20	125.24	128.68
2	J	401	ADP	N3-C2-N1	-2.20	125.24	128.68
2	T	401	ADP	C2-N1-C6	2.20	122.51	118.75
2	L	401	ADP	N3-C2-N1	-2.20	125.24	128.68
2	R	401	ADP	C2-N1-C6	2.19	122.51	118.75
2	W	401	ADP	N3-C2-N1	-2.19	125.25	128.68
2	I	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	N	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	R	401	ADP	N3-C2-N1	-2.19	125.25	128.68
2	F	401	ADP	N3-C2-N1	-2.19	125.26	128.68
2	N	401	ADP	N3-C2-N1	-2.19	125.26	128.68
2	V	401	ADP	N3-C2-N1	-2.19	125.26	128.68
2	W	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	A	401	ADP	C2-N1-C6	2.19	122.49	118.75
2	O	401	ADP	C2-N1-C6	2.19	122.49	118.75
2	D	401	ADP	C2-N1-C6	2.18	122.49	118.75
2	A	401	ADP	N3-C2-N1	-2.18	125.27	128.68
2	C	401	ADP	C2-N1-C6	2.18	122.48	118.75
2	I	401	ADP	N3-C2-N1	-2.18	125.28	128.68
2	V	401	ADP	C2-N1-C6	2.18	122.48	118.75
2	E	401	ADP	C2-N1-C6	2.18	122.48	118.75
2	H	401	ADP	C2-N1-C6	2.18	122.47	118.75
2	M	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	U	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	O	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	S	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	J	401	ADP	C2-N1-C6	2.17	122.47	118.75
2	B	401	ADP	N3-C2-N1	-2.17	125.29	128.68
2	B	401	ADP	C2-N1-C6	2.17	122.46	118.75
2	S	401	ADP	C2-N1-C6	2.17	122.46	118.75
2	U	401	ADP	C2-N1-C6	2.17	122.46	118.75
2	H	401	ADP	N3-C2-N1	-2.17	125.29	128.68
2	M	401	ADP	C2-N1-C6	2.17	122.46	118.75
2	P	401	ADP	N3-C2-N1	-2.17	125.29	128.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	L	401	ADP	C2-N1-C6	2.16	122.46	118.75
2	Q	401	ADP	C2-N1-C6	2.16	122.46	118.75
2	Q	401	ADP	N3-C2-N1	-2.16	125.30	128.68
2	D	401	ADP	N3-C2-N1	-2.16	125.30	128.68
2	P	401	ADP	C2-N1-C6	2.16	122.44	118.75
2	M	401	ADP	O3B-PB-O2B	2.11	115.69	107.64
2	L	401	ADP	O3B-PB-O2B	2.11	115.69	107.64
2	T	401	ADP	O3B-PB-O2B	2.11	115.69	107.64
2	W	401	ADP	O3B-PB-O2B	2.10	115.68	107.64
2	G	401	ADP	O3B-PB-O2B	2.10	115.67	107.64
2	B	401	ADP	O3B-PB-O2B	2.10	115.66	107.64
2	R	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	P	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	E	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	J	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	K	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	H	401	ADP	O3B-PB-O2B	2.10	115.64	107.64
2	C	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	Q	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	V	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	N	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	S	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	I	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	D	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	O	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	U	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	A	401	ADP	O3B-PB-O2B	2.09	115.61	107.64
2	F	401	ADP	O3B-PB-O2B	2.09	115.61	107.64

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

23 monomers are involved in 95 short contacts:

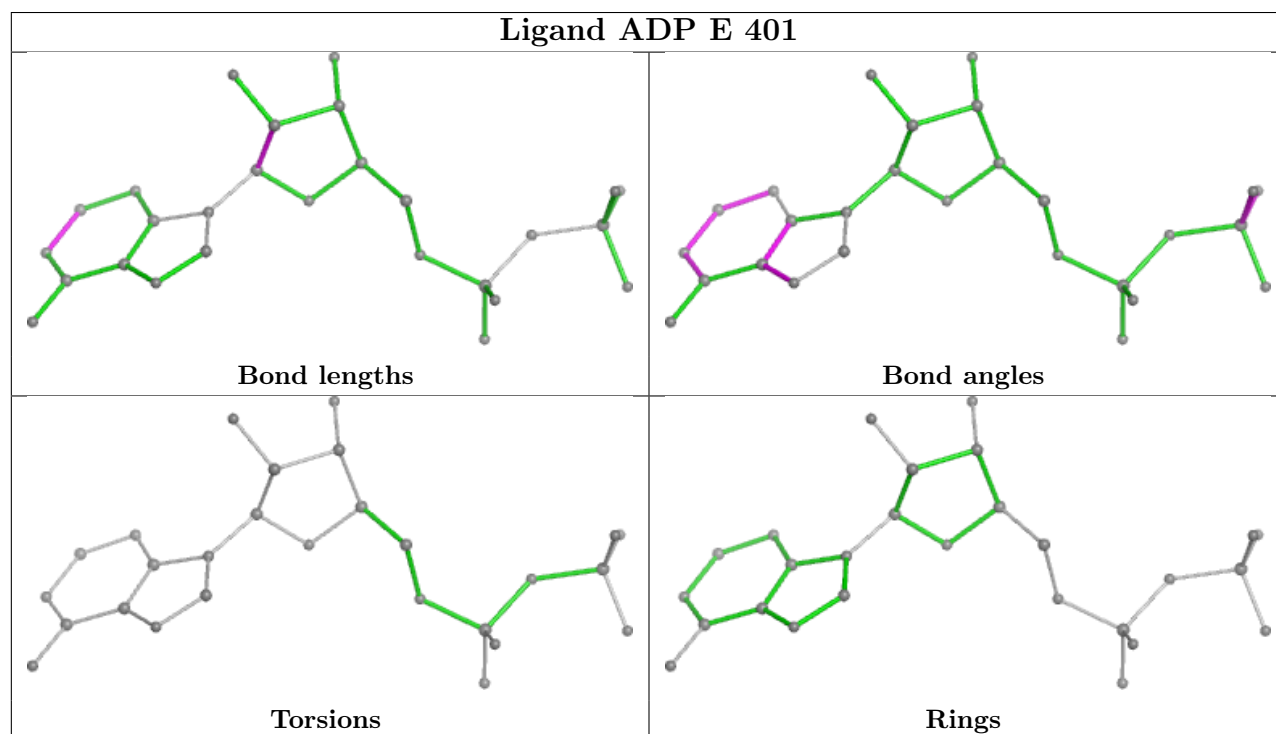
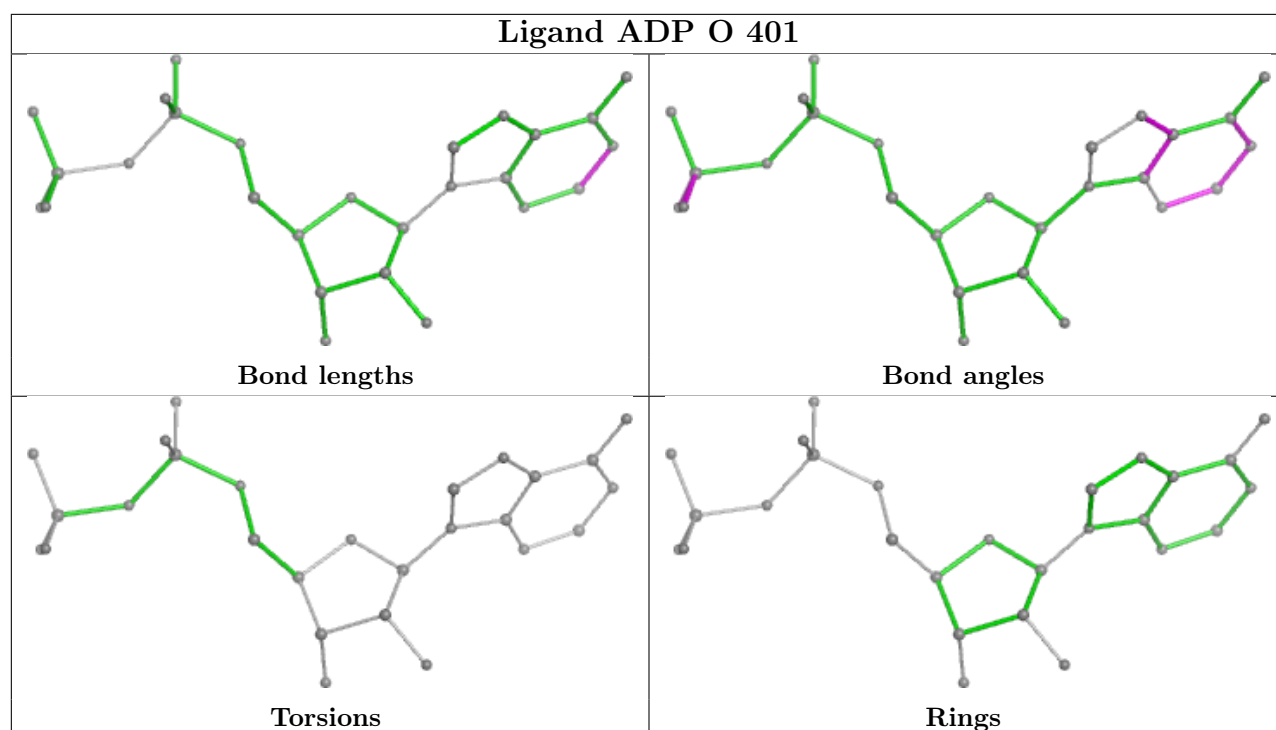
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	O	401	ADP	5	0
2	E	401	ADP	4	0
2	G	401	ADP	4	0
2	N	401	ADP	4	0
2	I	401	ADP	4	0
2	C	401	ADP	4	0

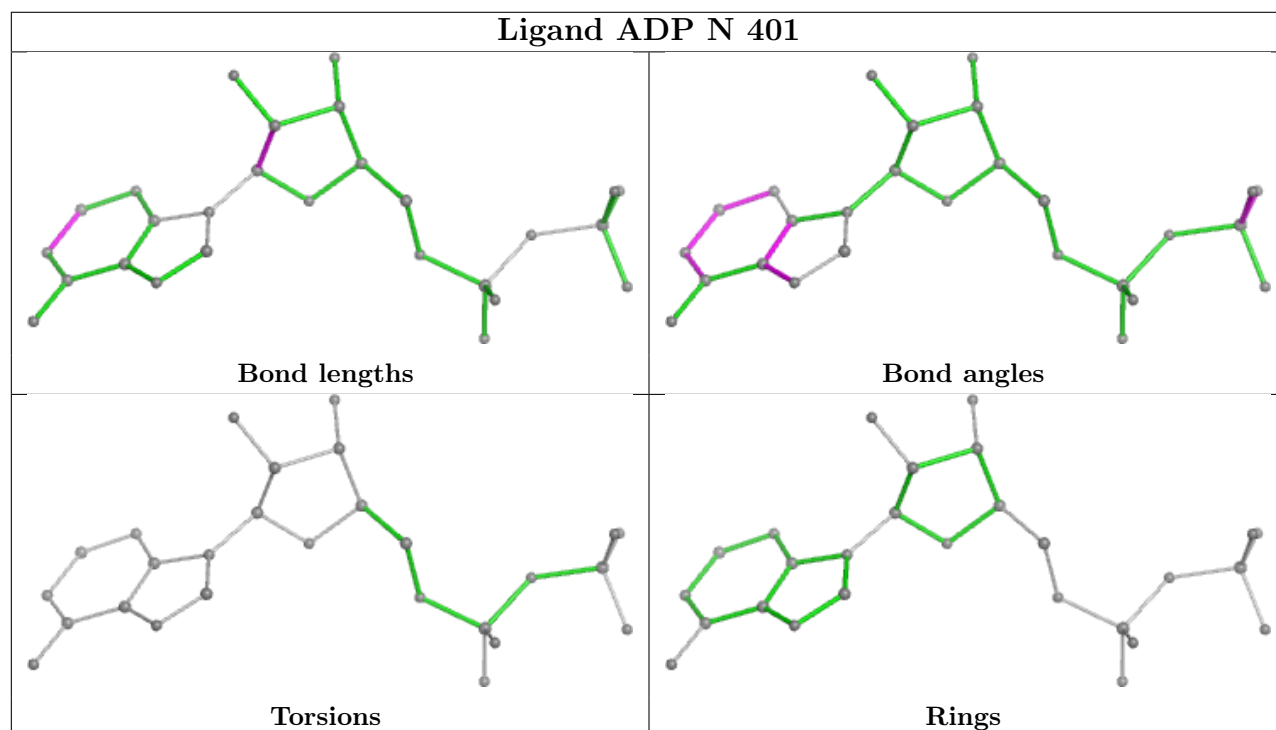
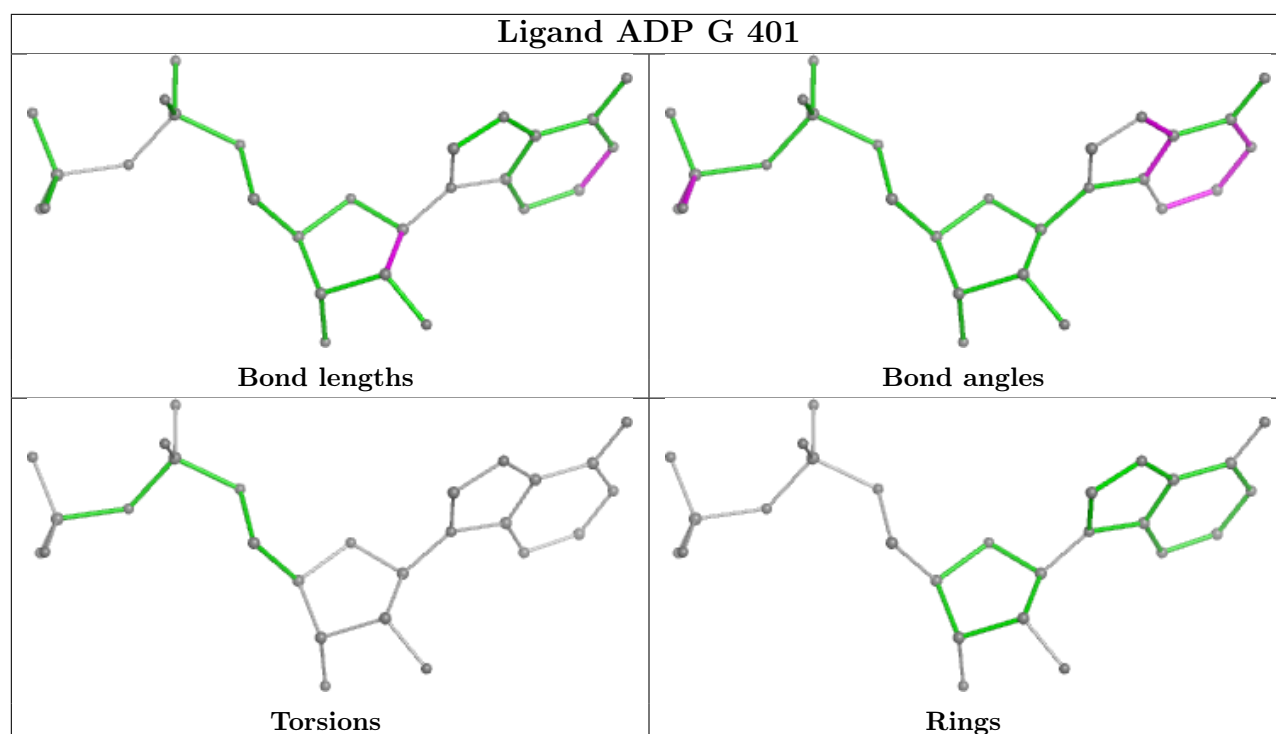
Continued on next page...

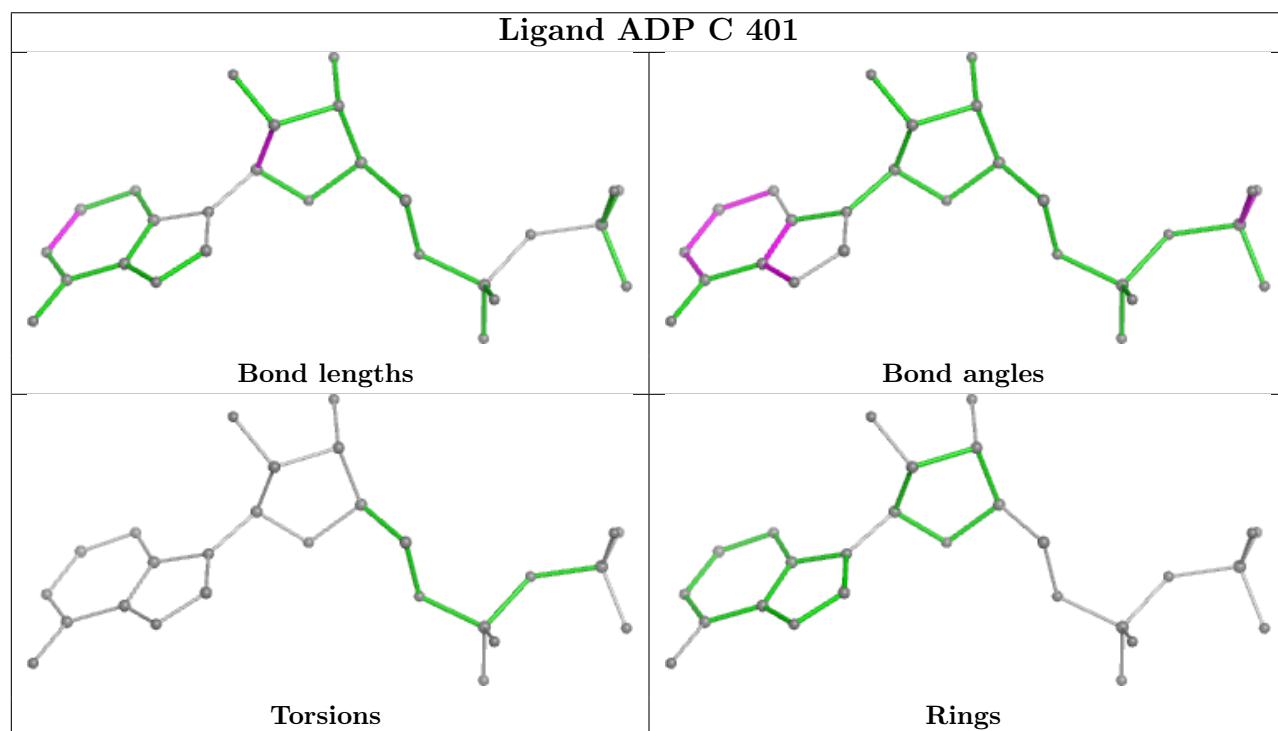
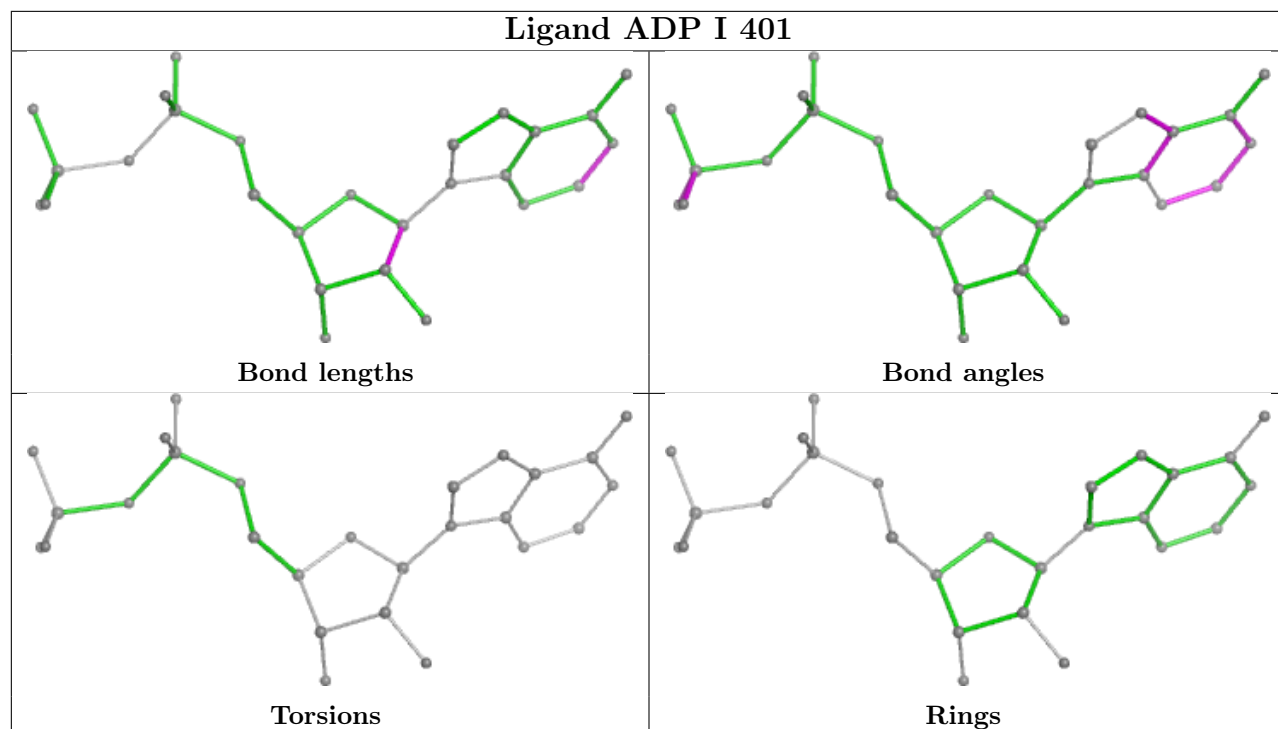
Continued from previous page...

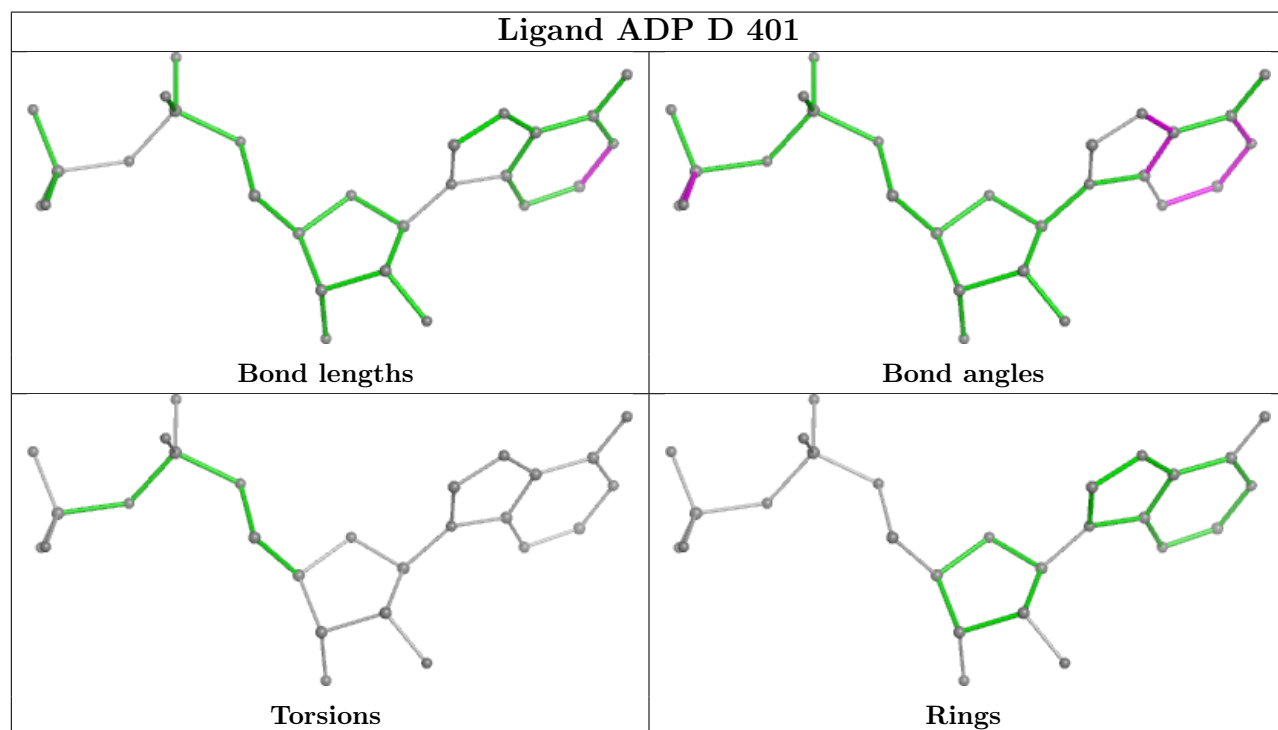
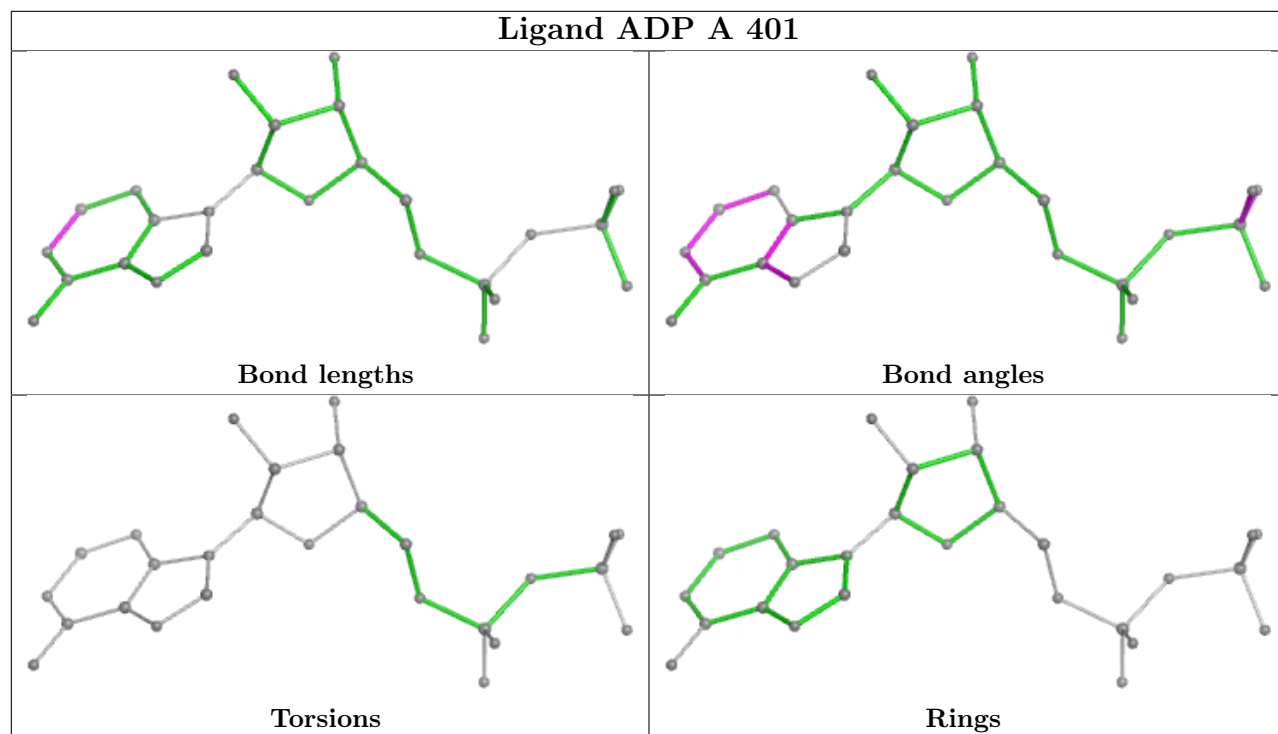
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	ADP	4	0
2	D	401	ADP	4	0
2	T	401	ADP	4	0
2	U	401	ADP	4	0
2	Q	401	ADP	4	0
2	L	401	ADP	4	0
2	V	401	ADP	4	0
2	F	401	ADP	5	0
2	J	401	ADP	4	0
2	M	401	ADP	5	0
2	S	401	ADP	4	0
2	R	401	ADP	4	0
2	H	401	ADP	4	0
2	P	401	ADP	4	0
2	W	401	ADP	4	0
2	B	401	ADP	4	0
2	K	401	ADP	4	0

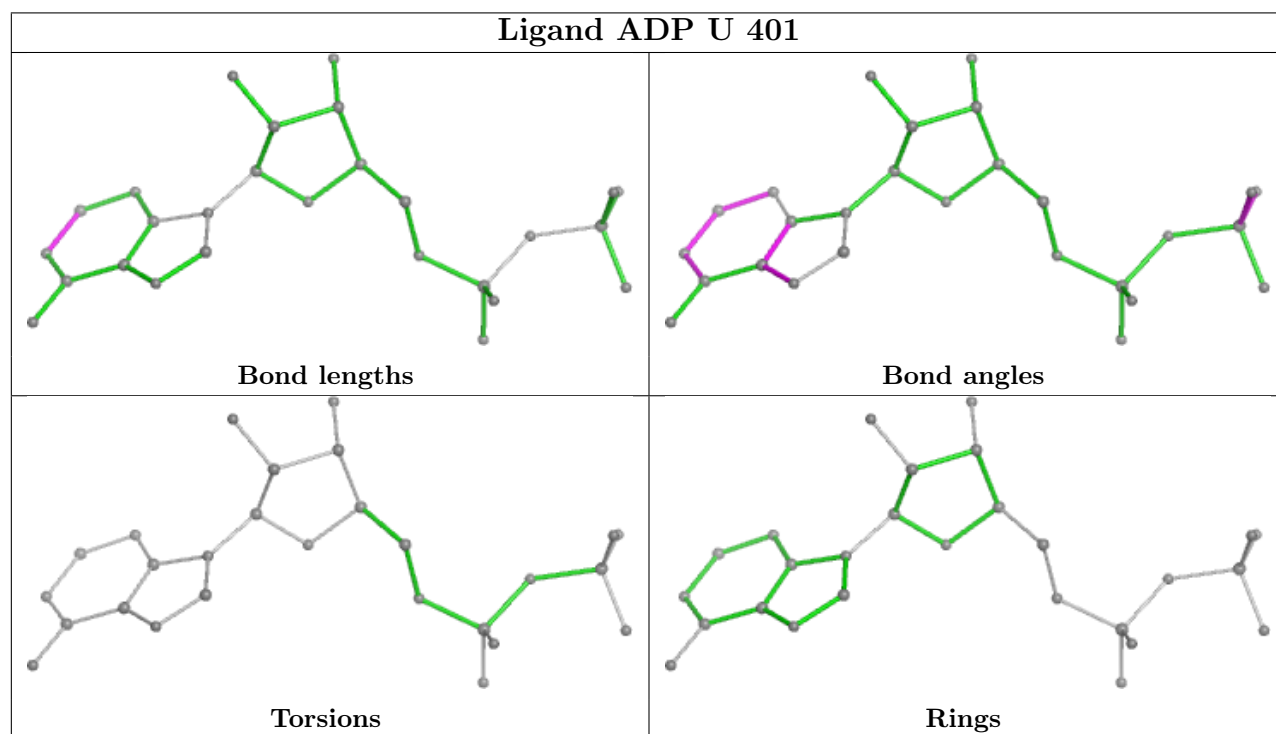
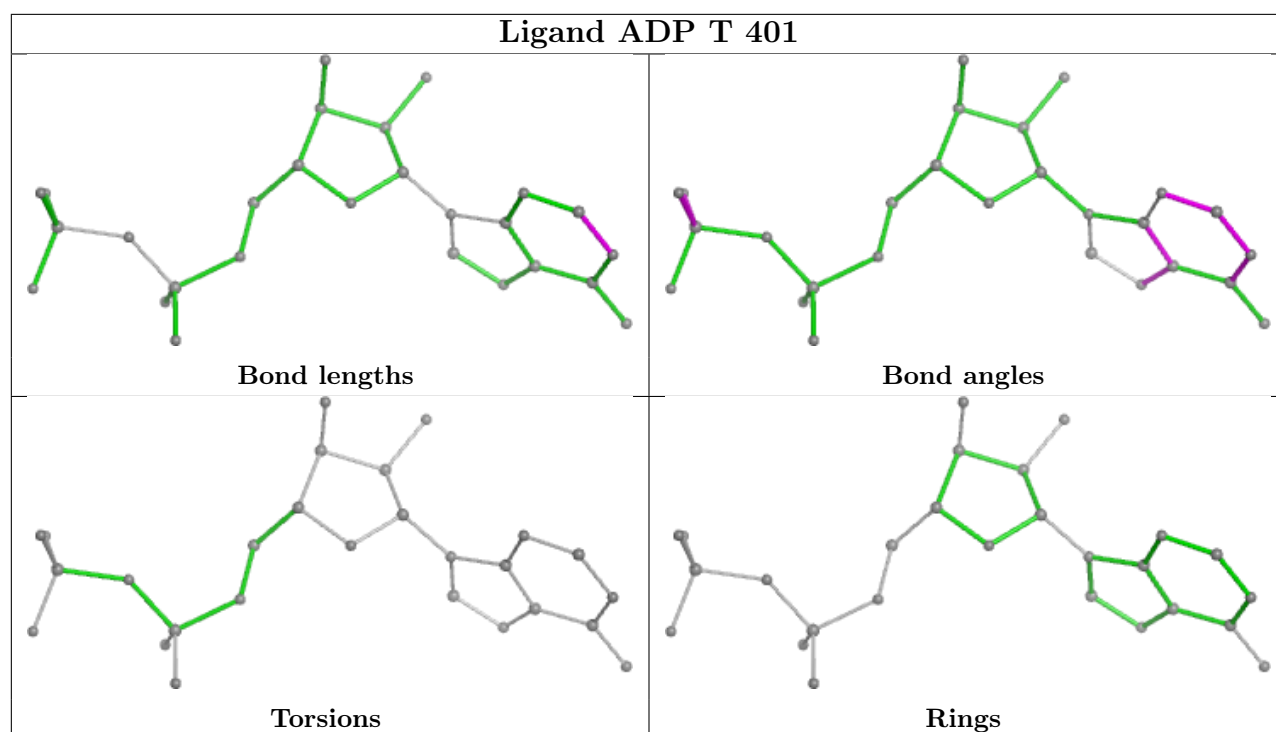
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

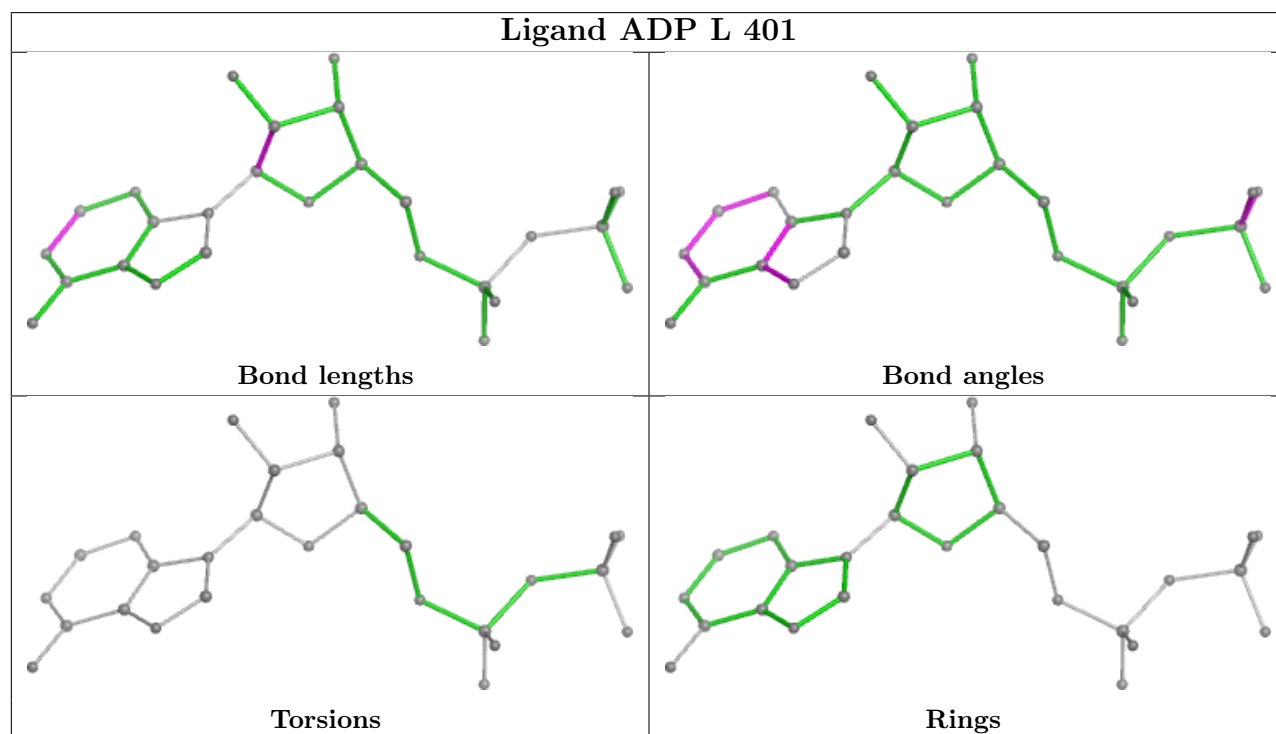
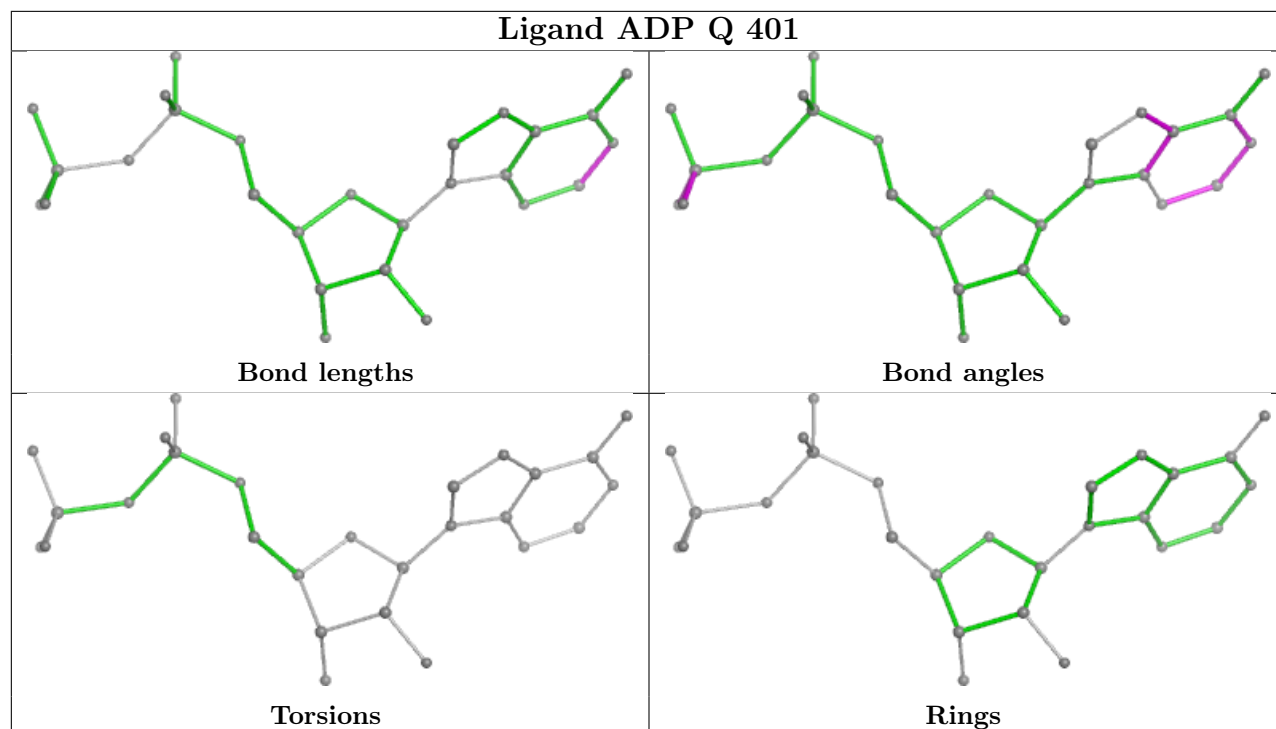


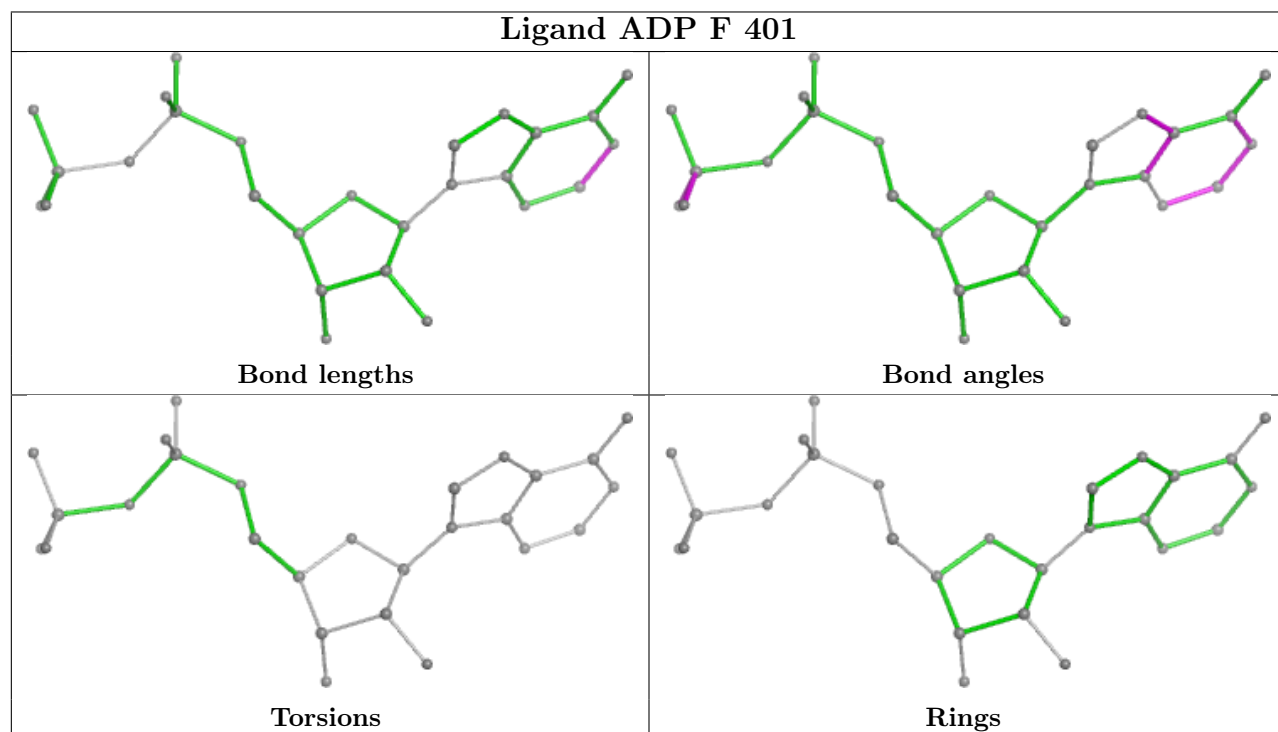
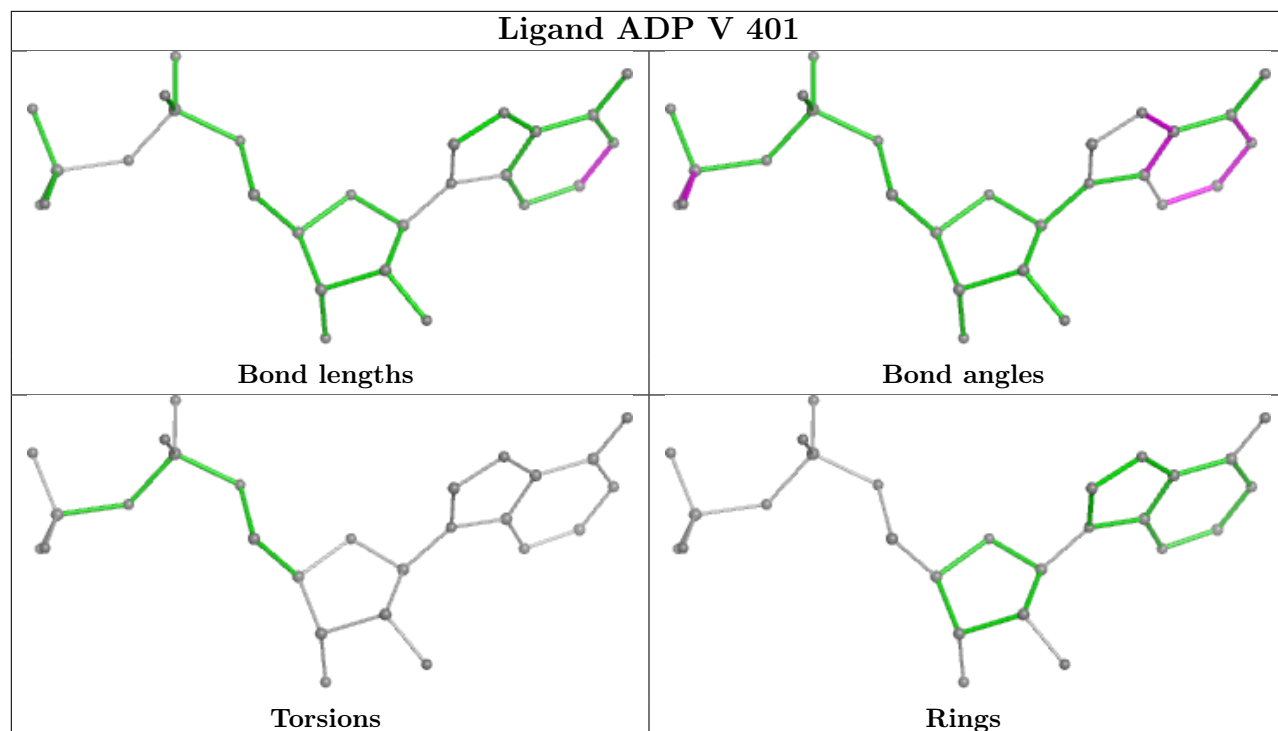




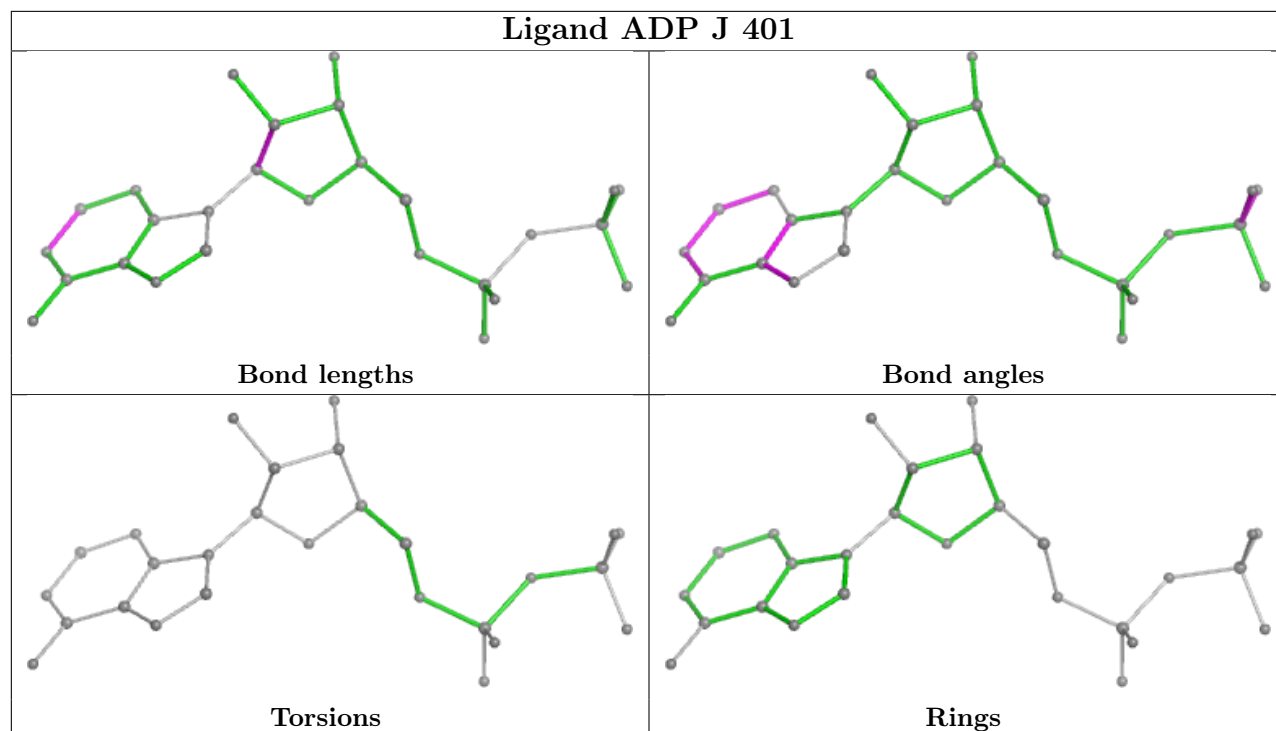




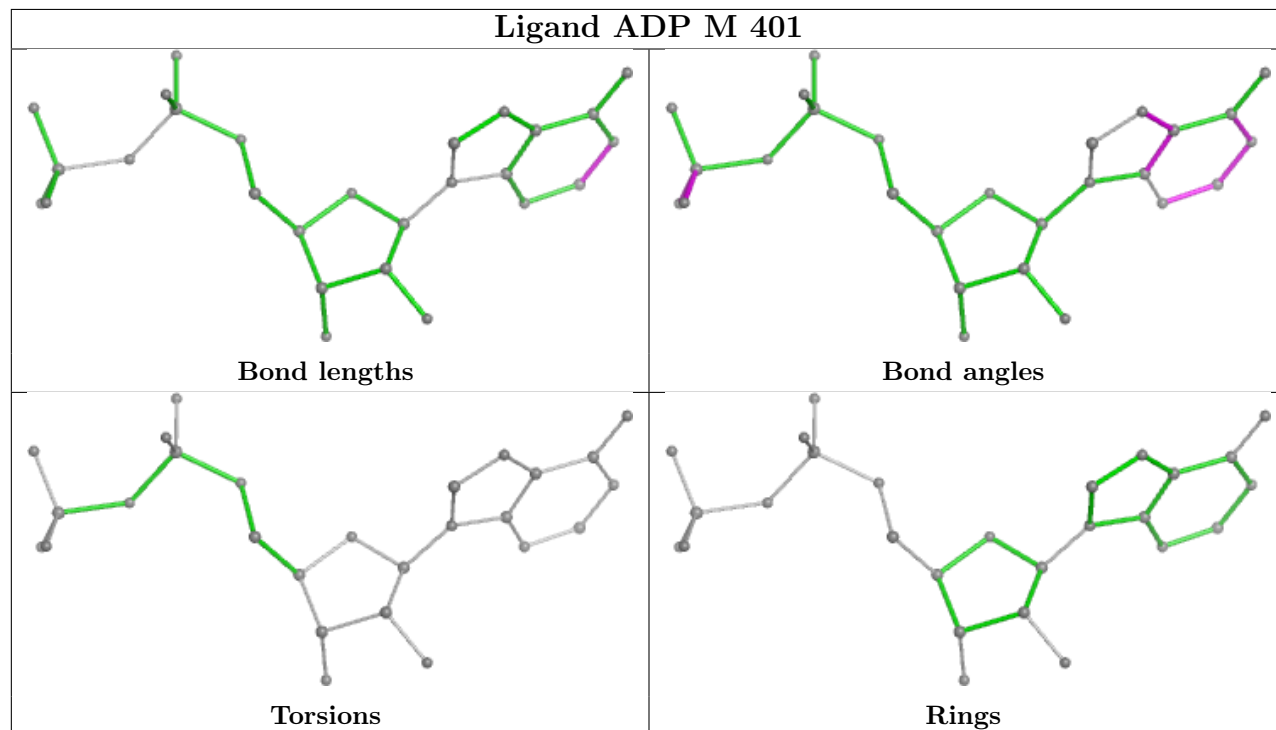


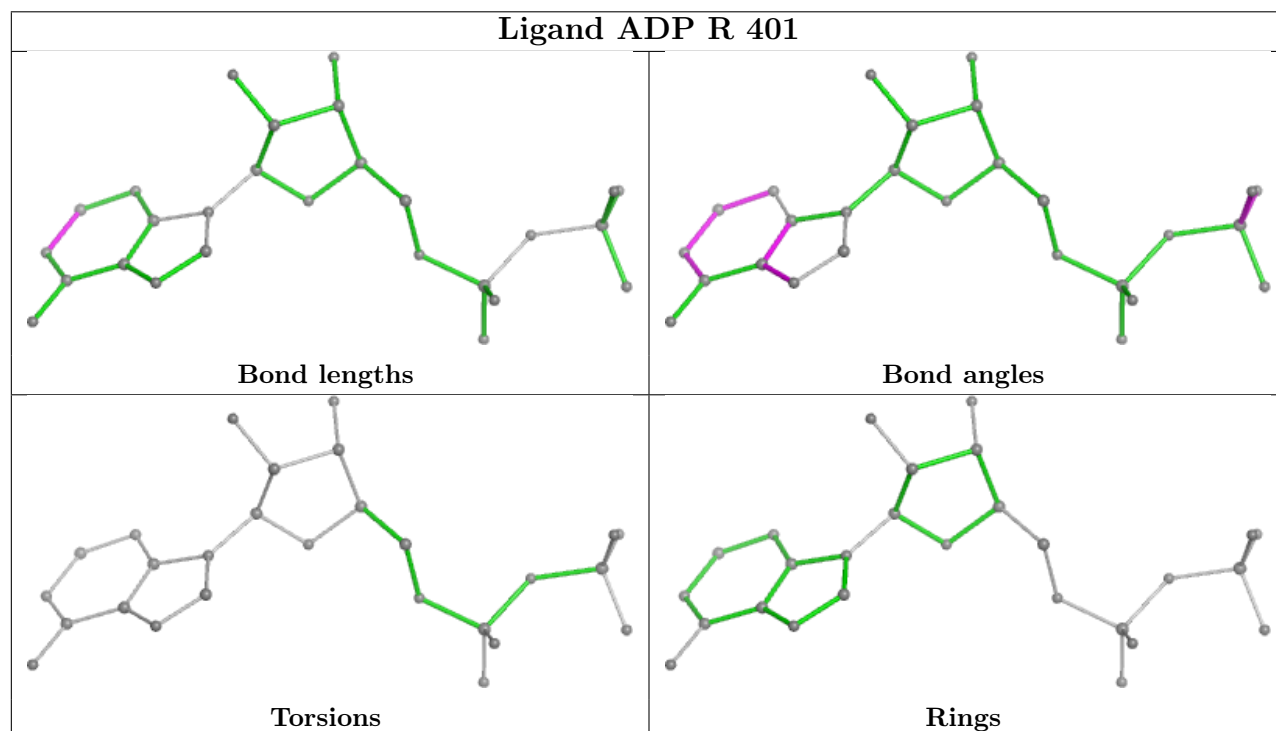
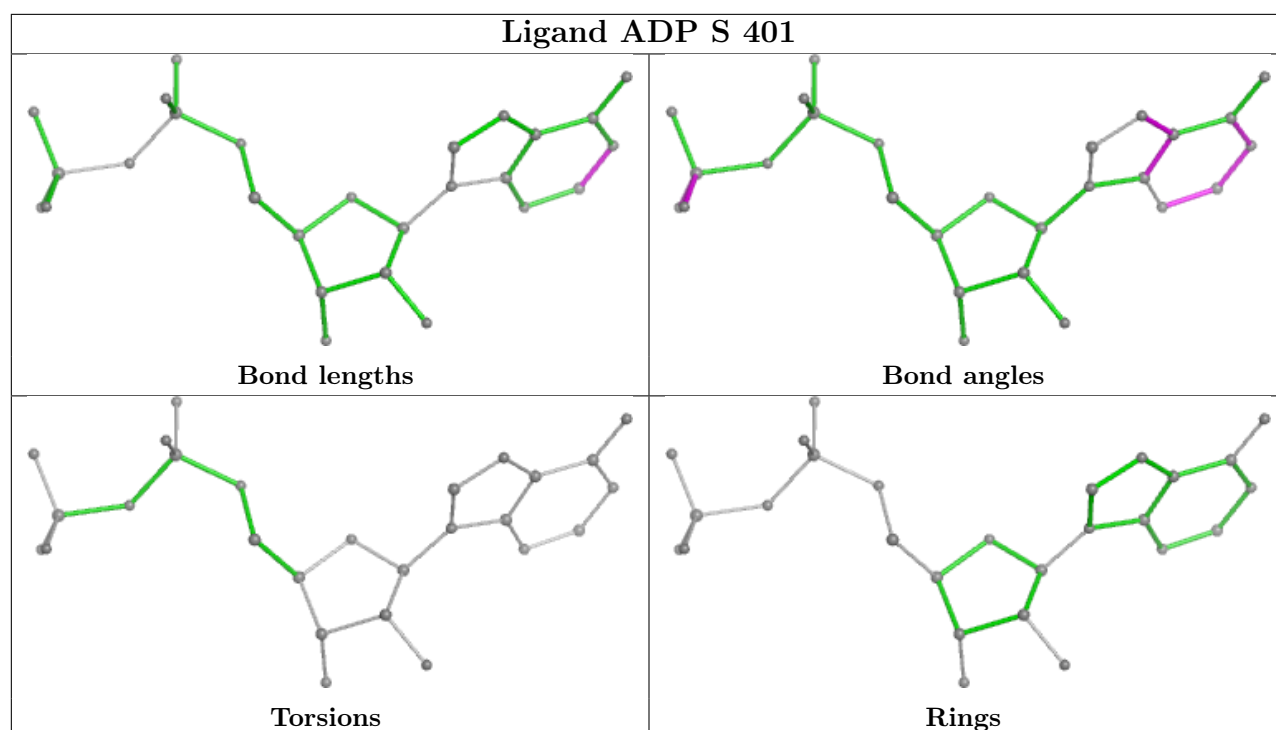


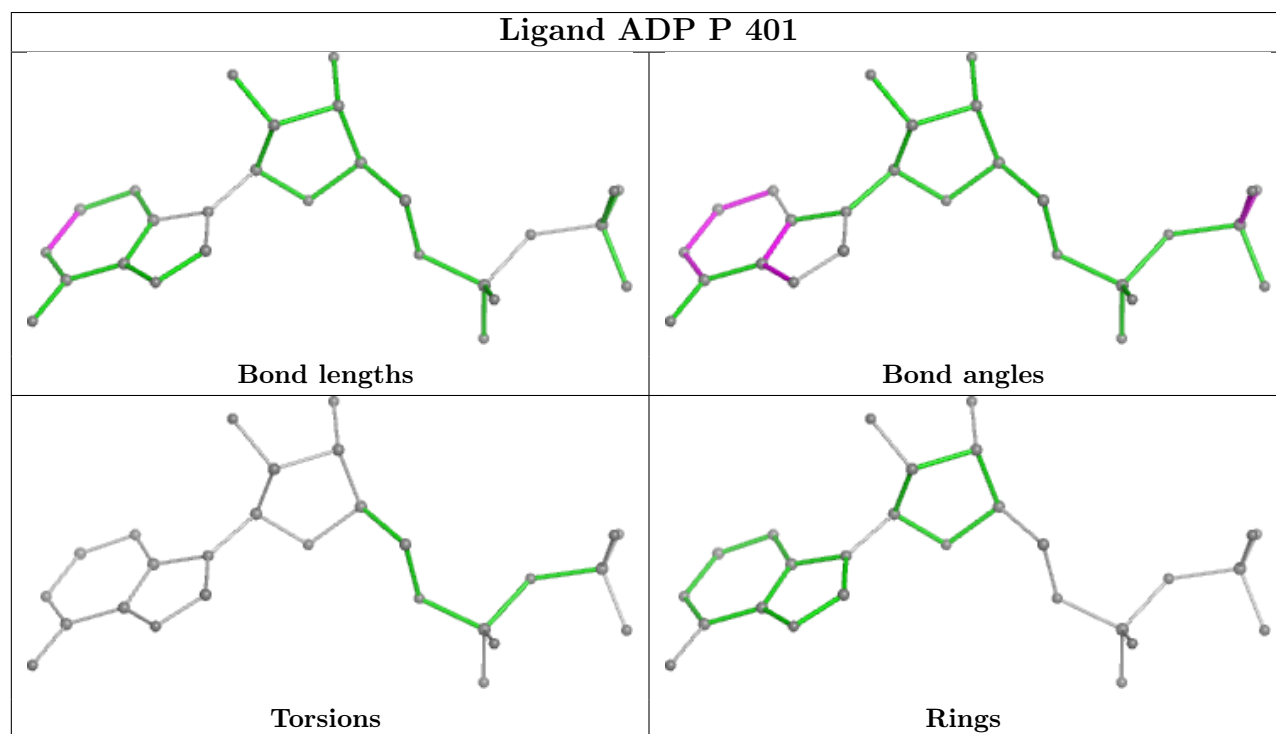
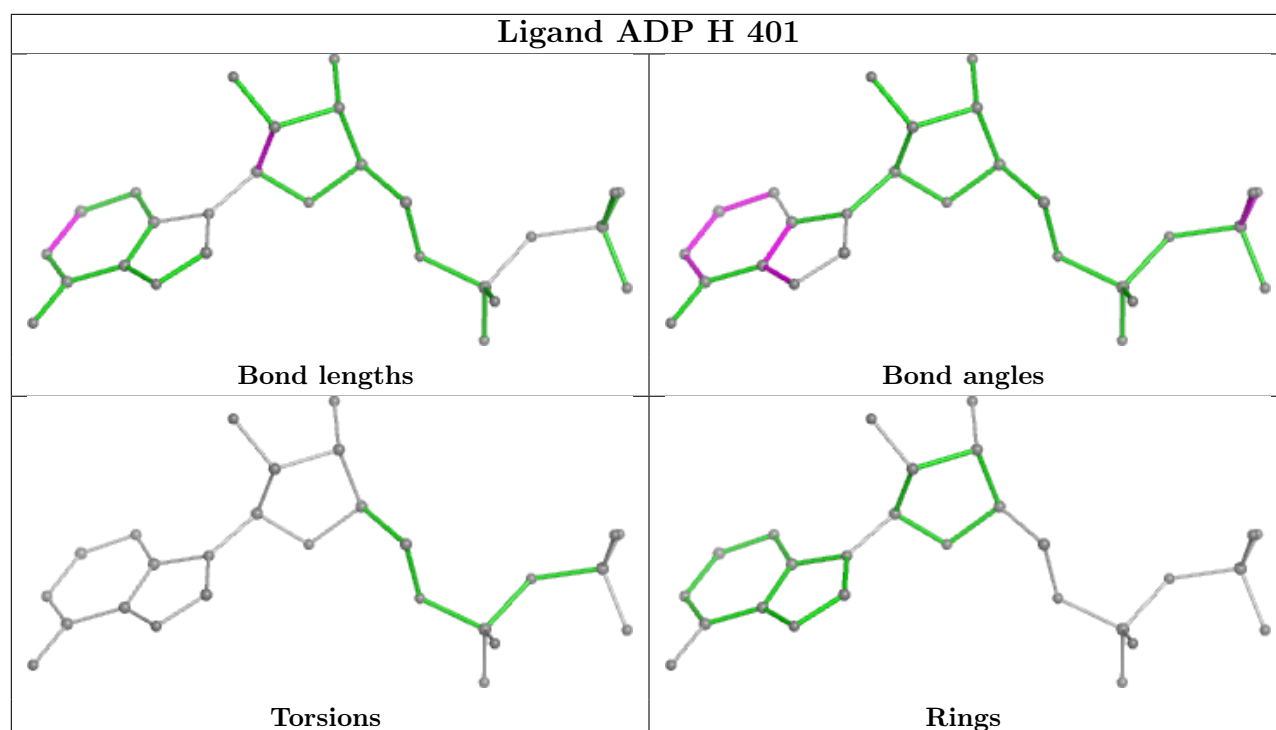
Ligand ADP J 401

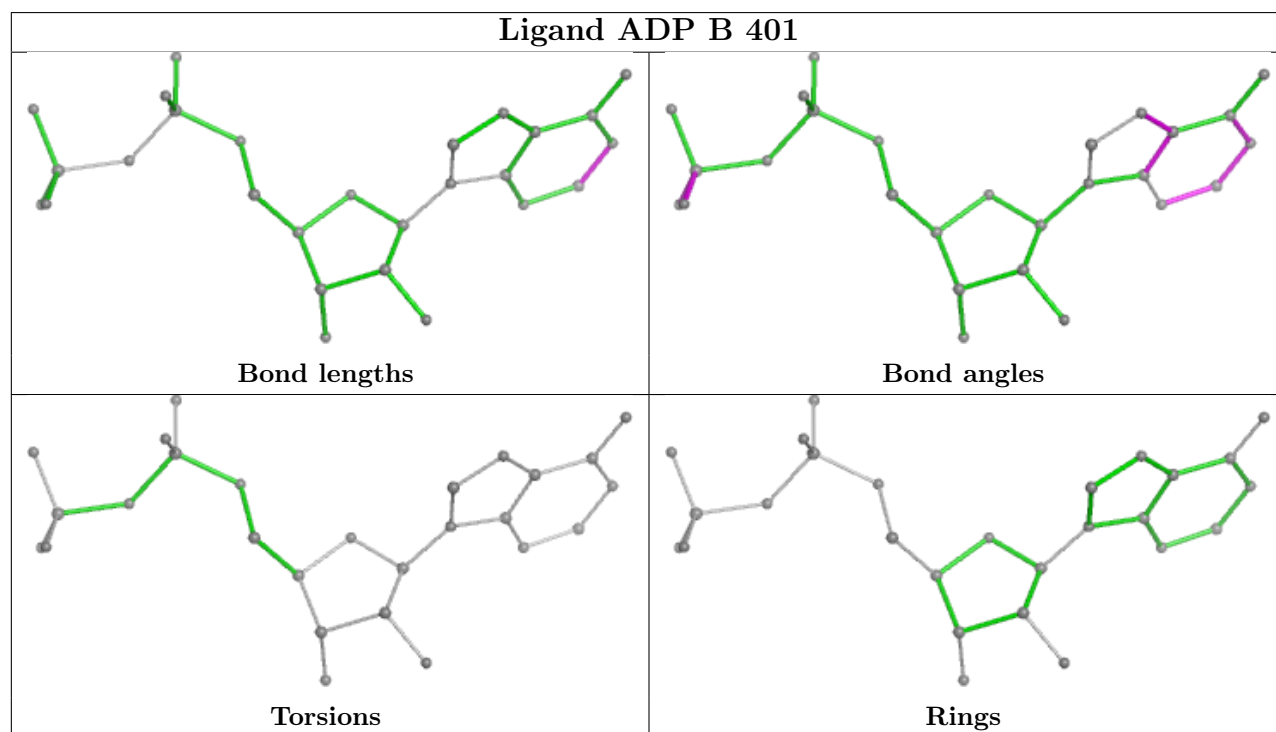
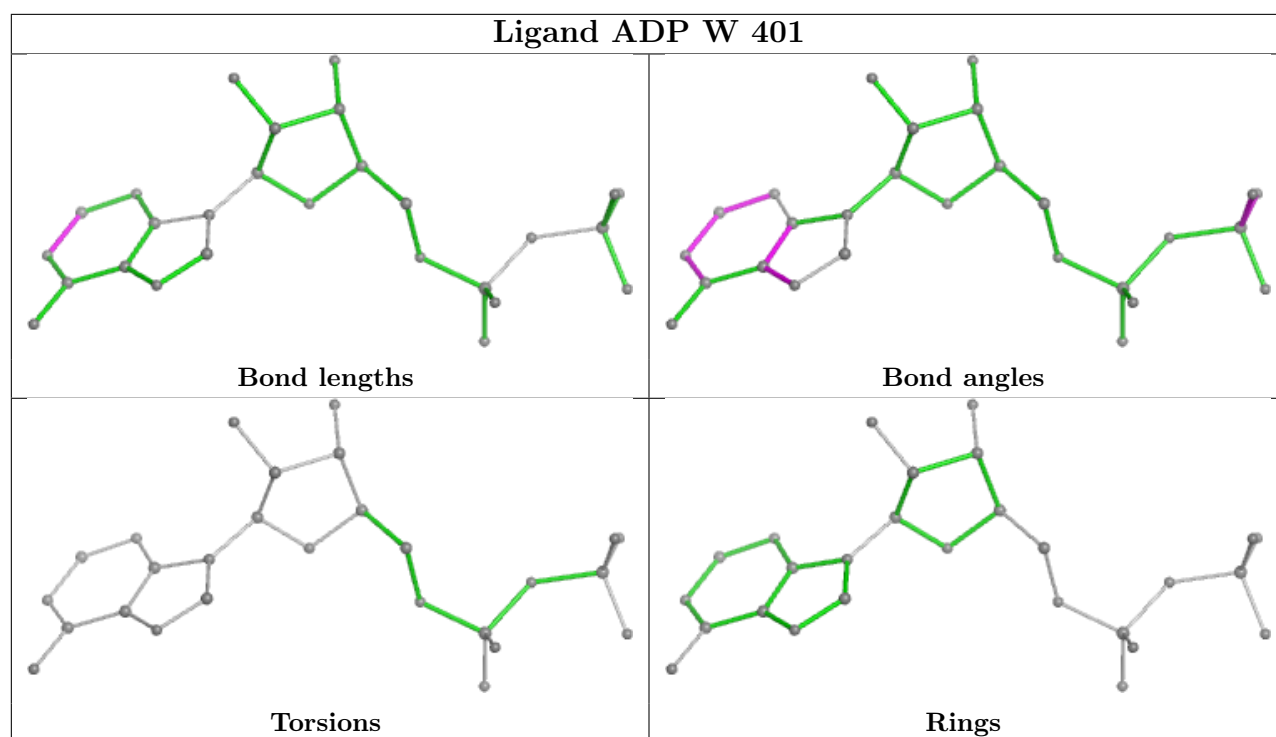


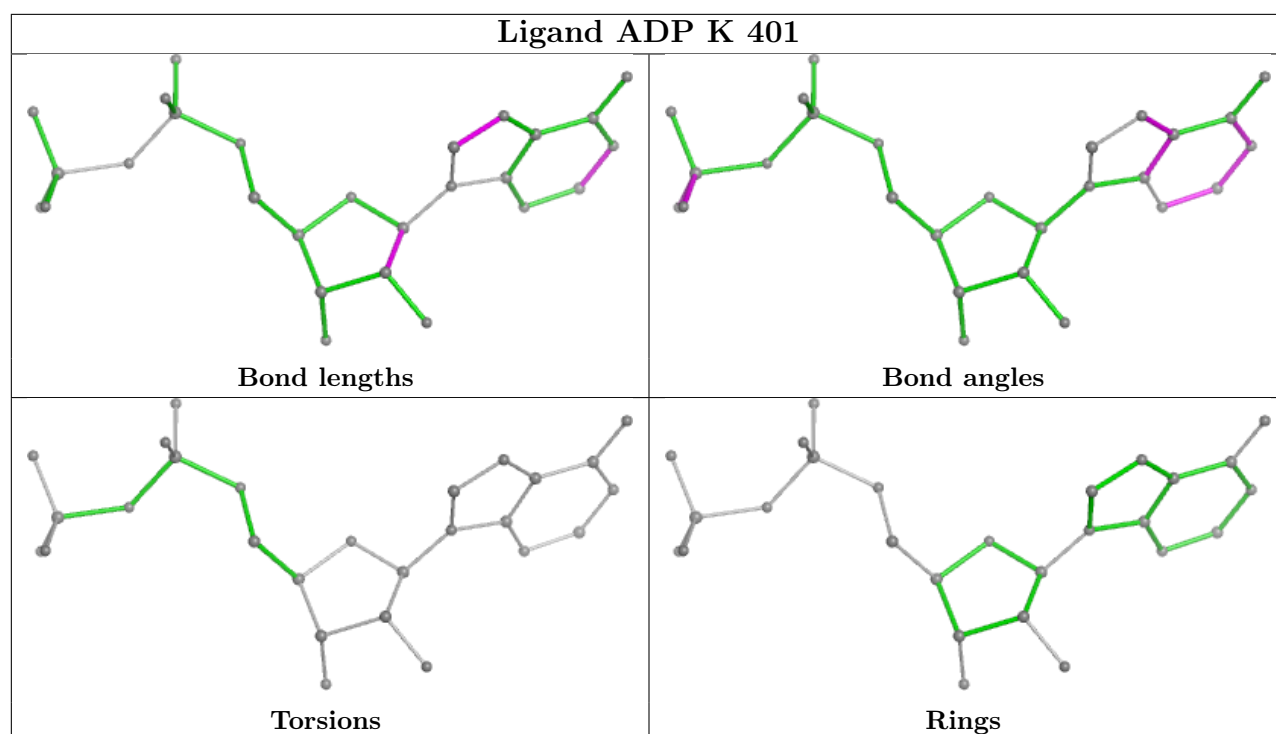
Ligand ADP M 401











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.

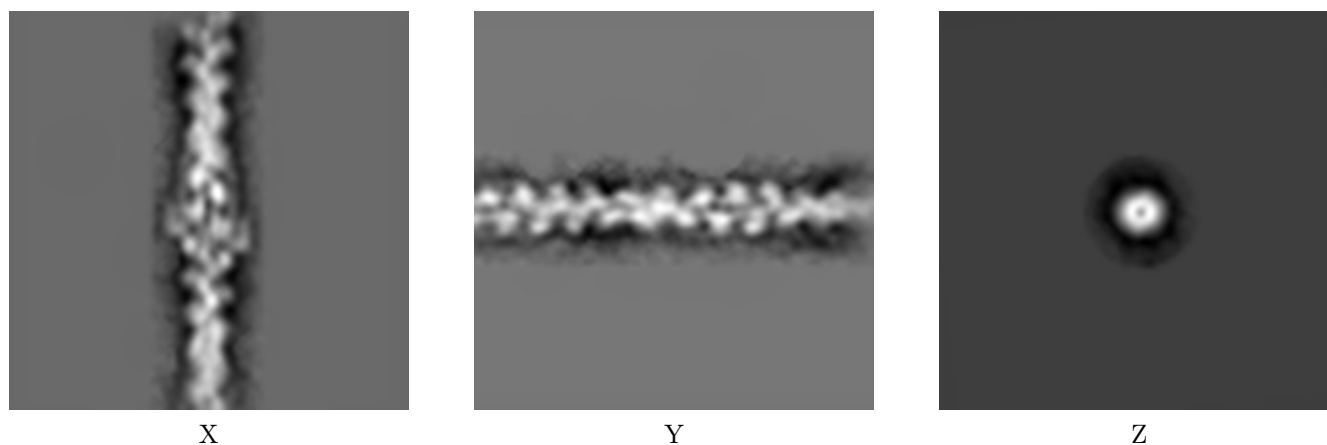
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-3578. 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](#)

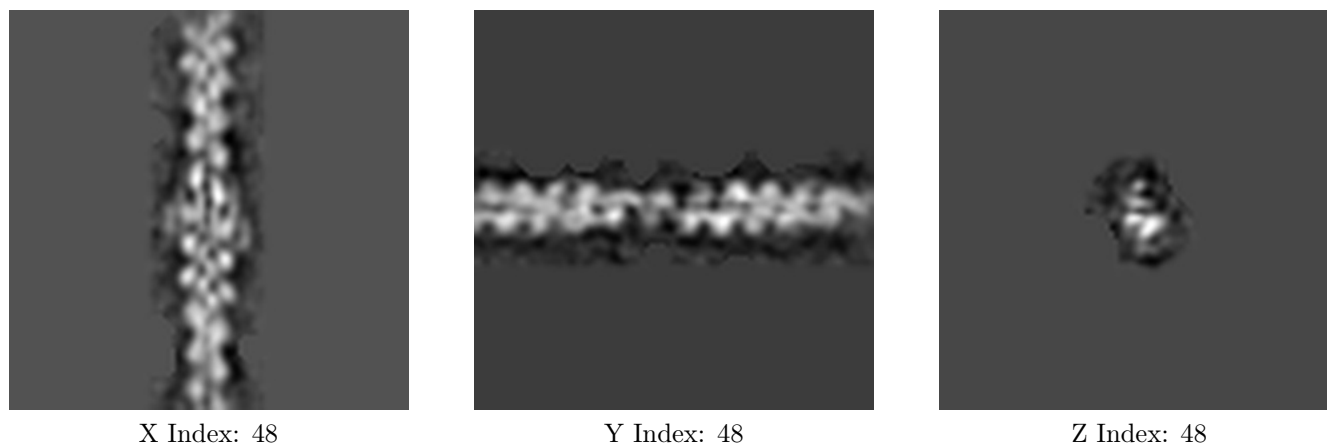
6.1.1 Primary map



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

6.2 Central slices [i](#)

6.2.1 Primary map



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: 50



Y Index: 48

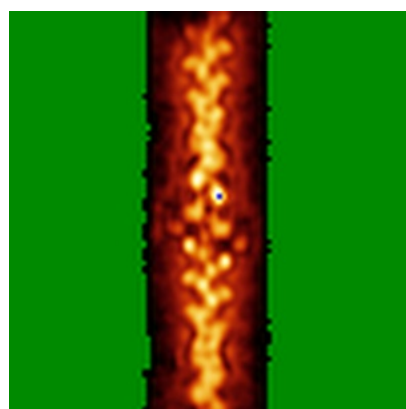


Z Index: 27

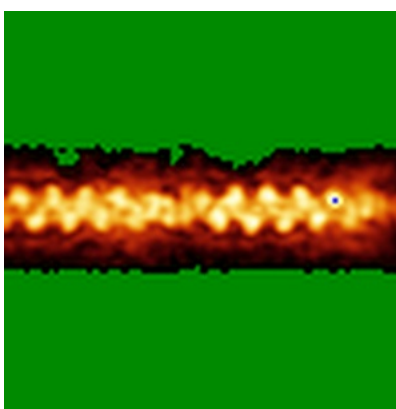
The images above show the largest variance slices of the map in three orthogonal directions.

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

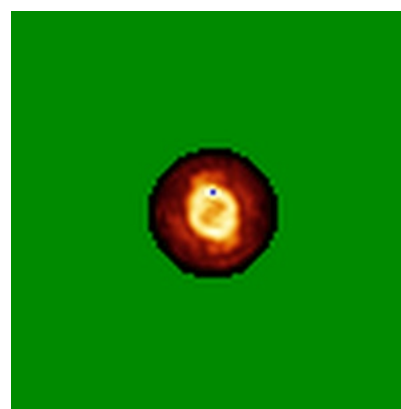
6.4.1 Primary map



X



Y

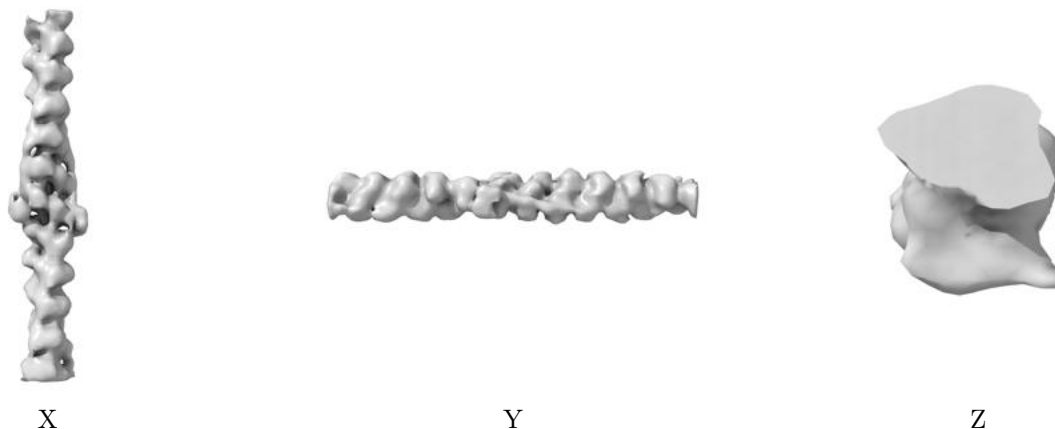


Z

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 1.8. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

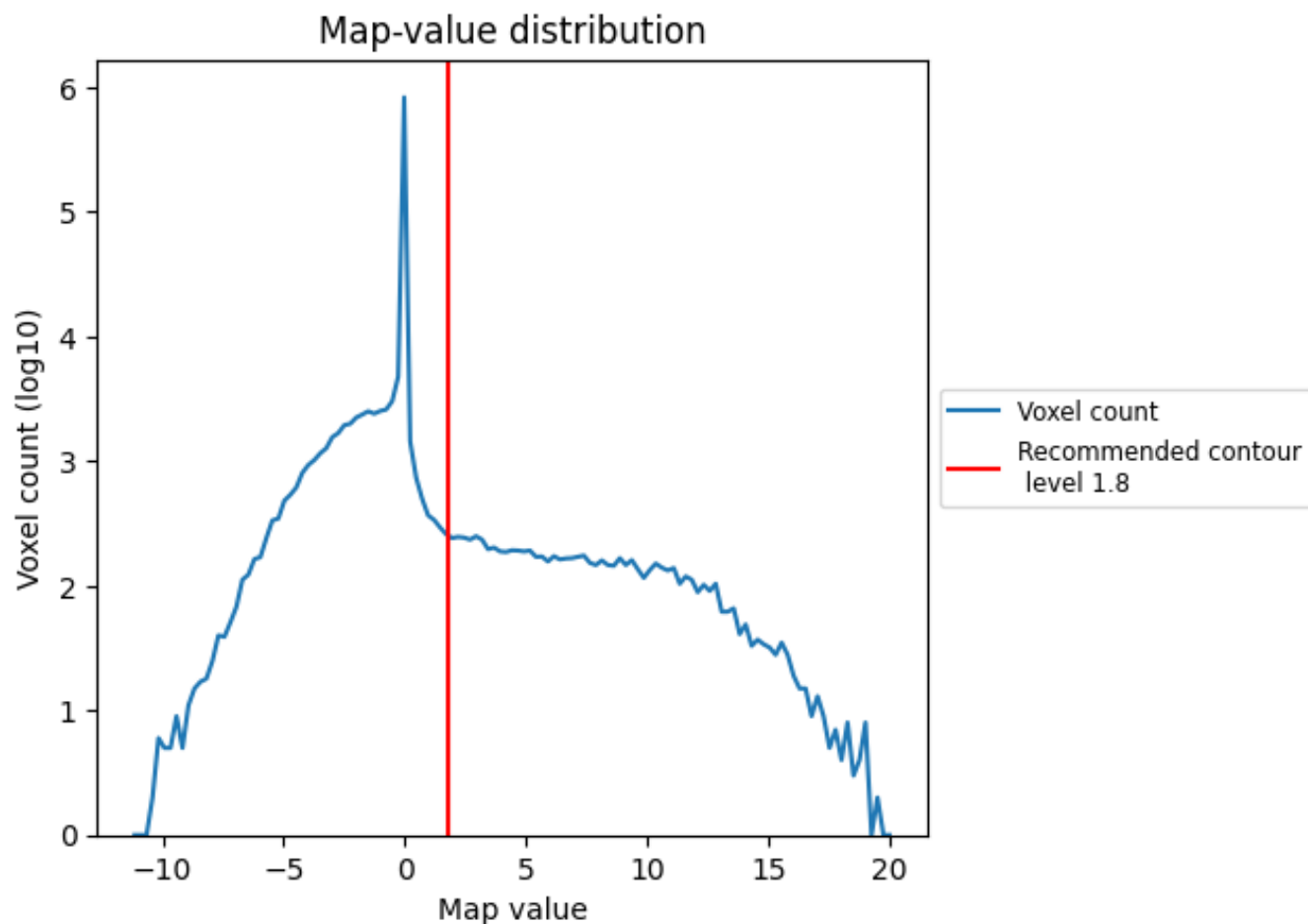
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

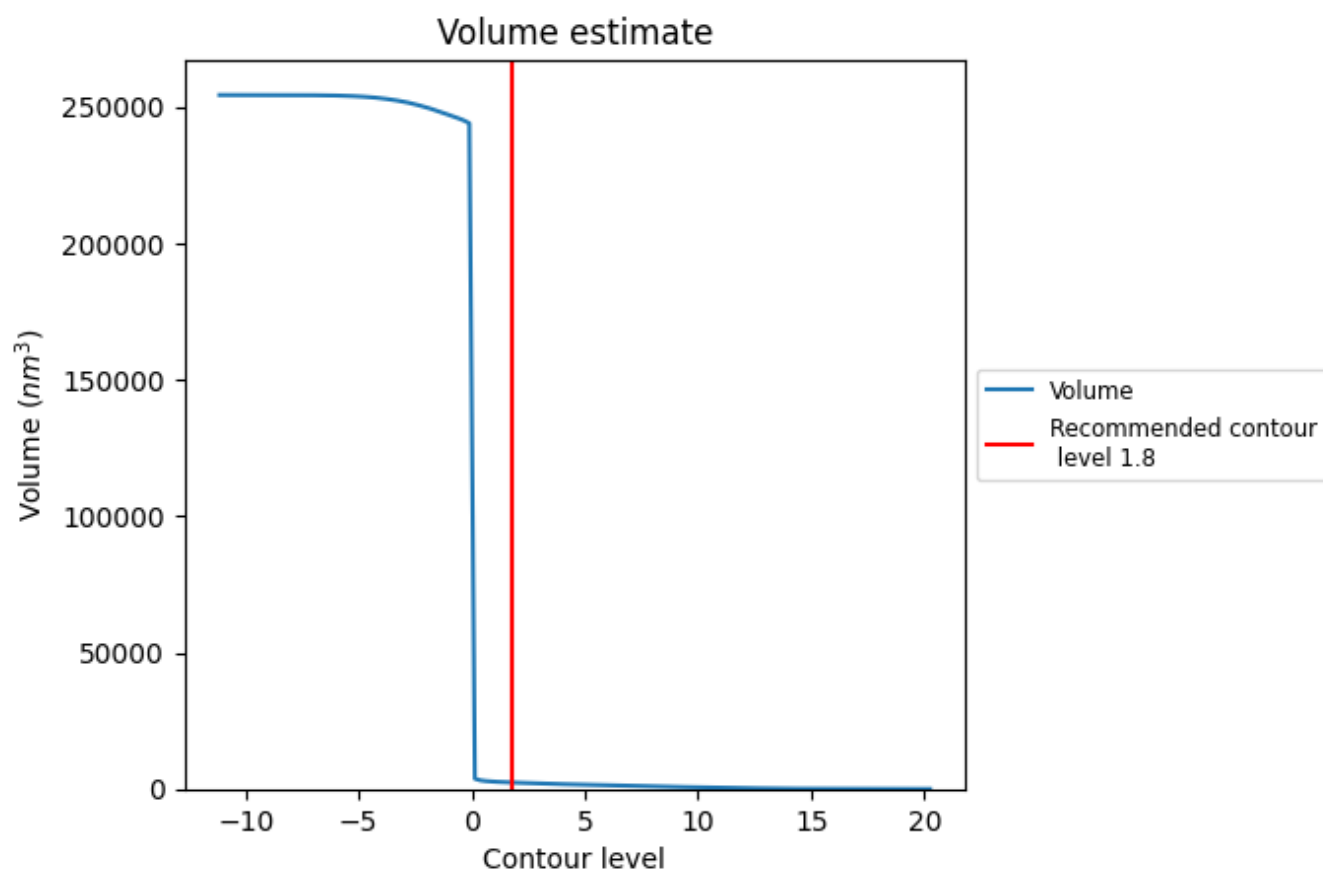
This section contains the results of statistical analysis of the map.

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.

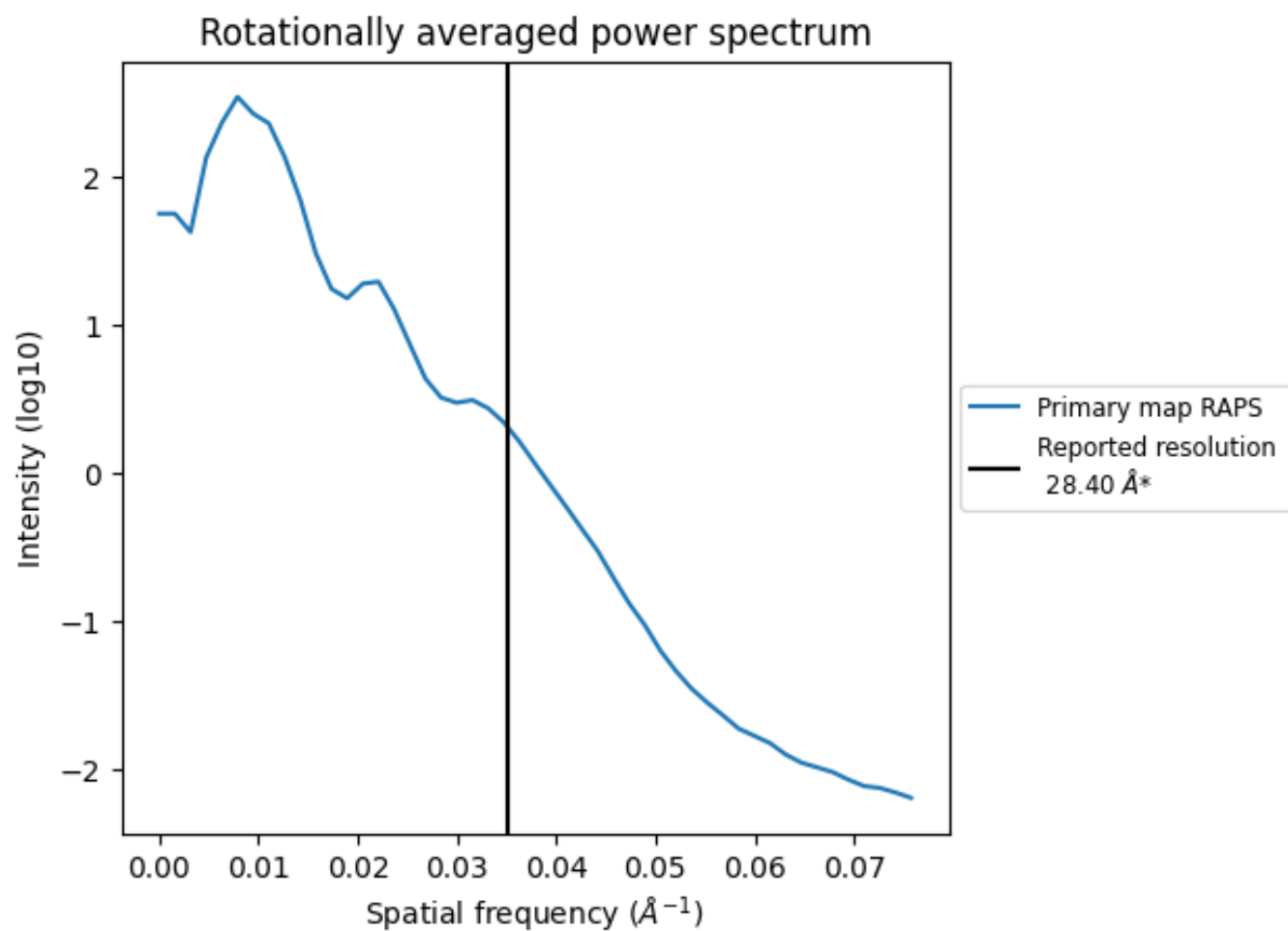
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2359 nm^3 ; this corresponds to an approximate mass of 2131 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 0.035 $\text{\AA}^{-1}$

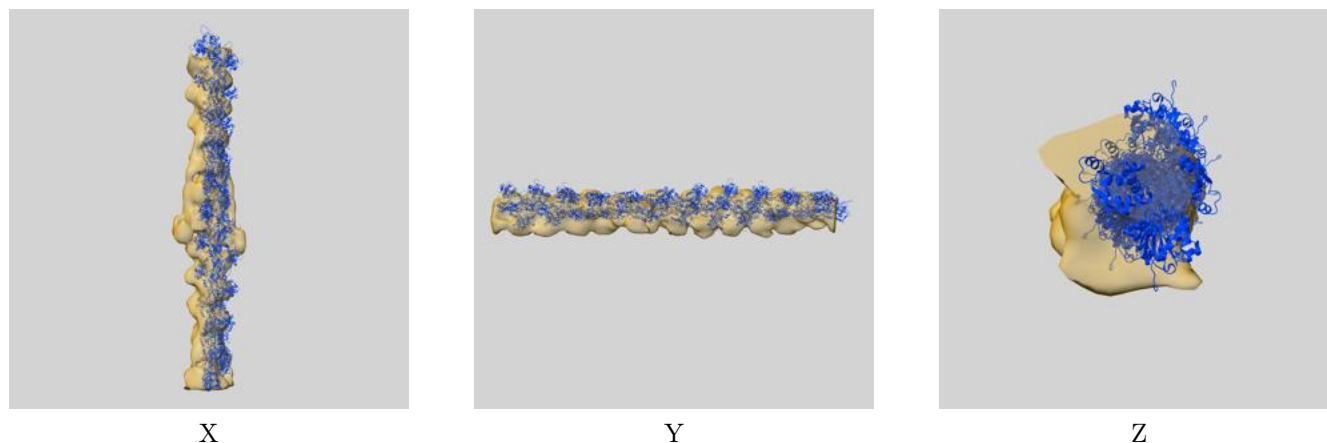
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

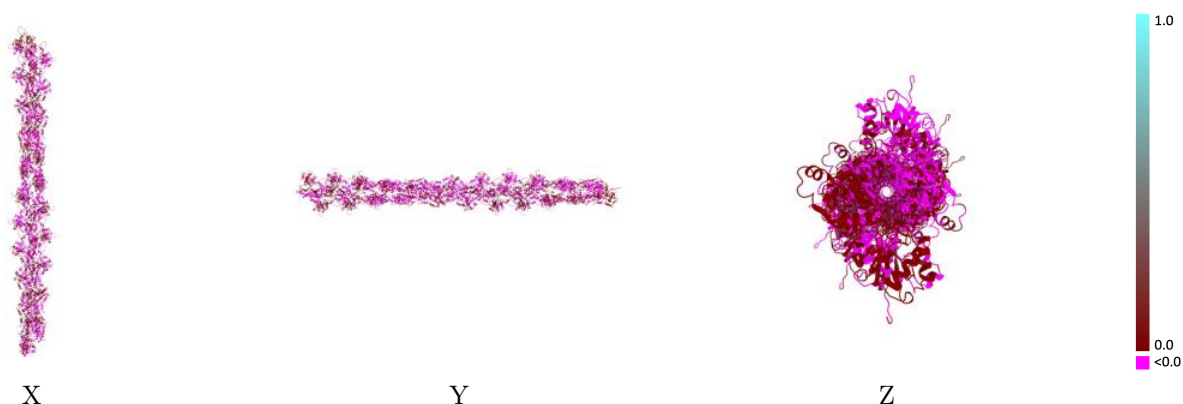
This section contains information regarding the fit between EMDB map EMD-3578 and PDB model 5MVY. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



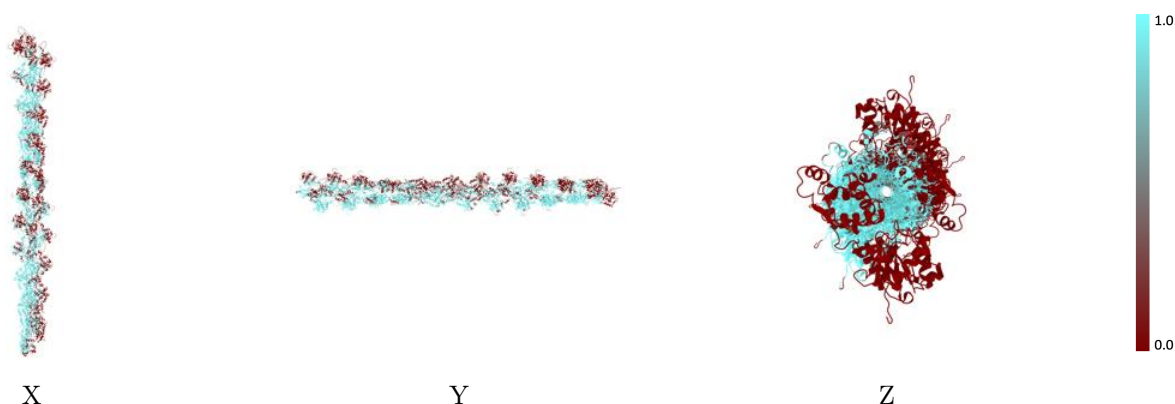
The images above show the 3D surface view of the map at the recommended contour level 1.8 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



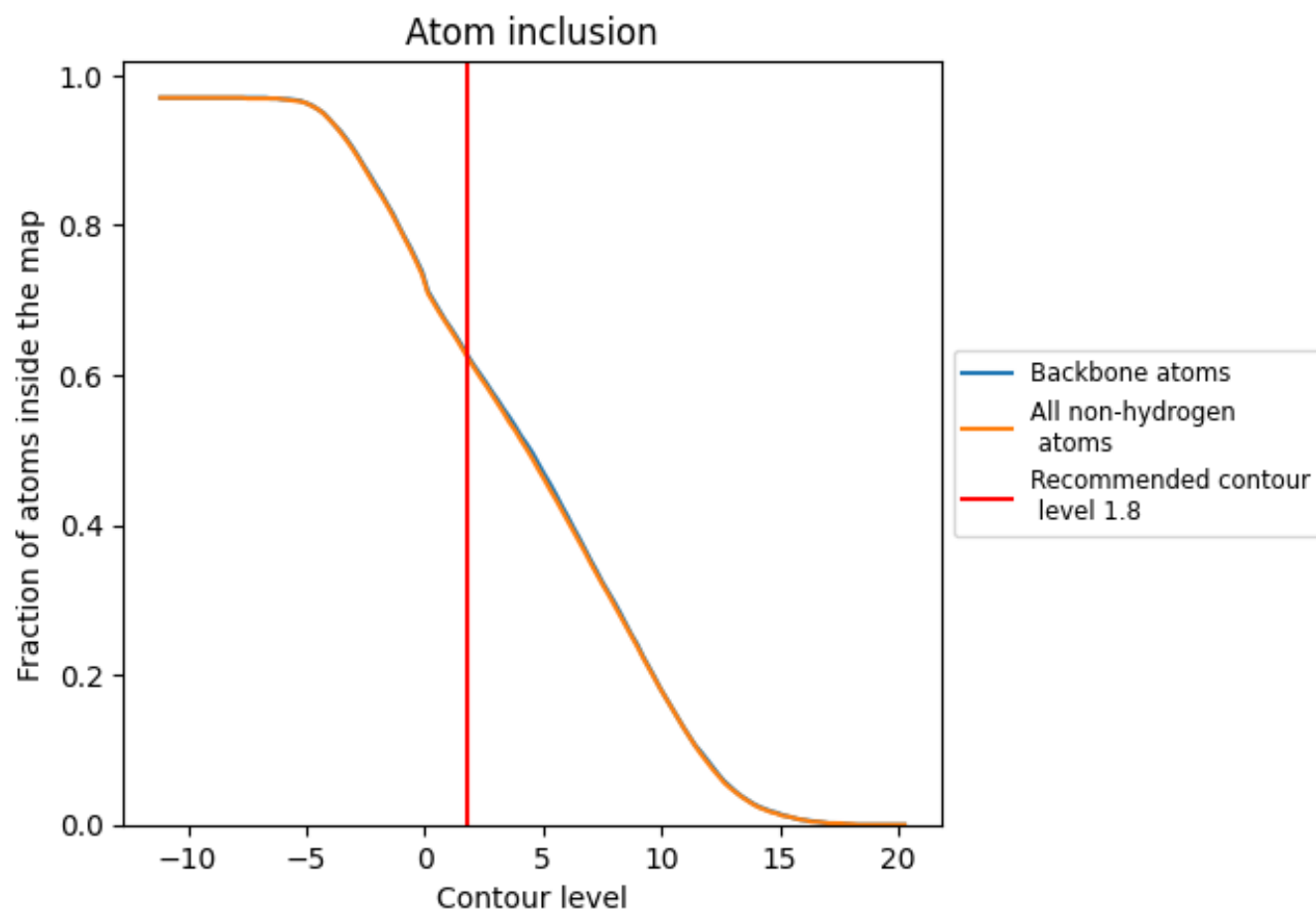
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.8).

9.4 Atom inclusion [i](#)



At the recommended contour level, 63% of all backbone atoms, 62% 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 (1.8) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6240	 0.0030
A	 0.2000	 -0.0060
B	 0.2890	 -0.0190
C	 0.8970	 0.0240
D	 0.4420	 -0.0100
E	 0.9360	 0.0230
F	 0.5210	 -0.0010
G	 0.7920	 0.0050
H	 0.6140	 0.0040
I	 0.6360	 0.0150
J	 0.6210	 -0.0000
K	 0.4950	 -0.0010
L	 0.6010	 -0.0240
M	 0.5040	 -0.0030
N	 0.6580	 -0.0170
O	 0.4470	 0.0040
P	 0.8110	 -0.0100
Q	 0.5490	 -0.0000
R	 0.9060	 0.0090
S	 0.5970	 0.0050
T	 0.8150	 0.0150
U	 0.6530	 0.0220
V	 0.6700	 0.0120
W	 0.6930	 0.0230

