



Full wwPDB EM Validation Report ⓘ

Mar 29, 2026 – 05:06 AM UTC

PDB ID : 5VKU / pdb_00005vku
EMDB ID : EMD-8703
Title : An atomic structure of the human cytomegalovirus (HCMV) capsid with its securing layer of pp150 tegument protein
Authors : Yu, X.; Jih, J.; Jiang, J.; Zhou, H.
Deposited on : 2017-04-24
Resolution : 3.90 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

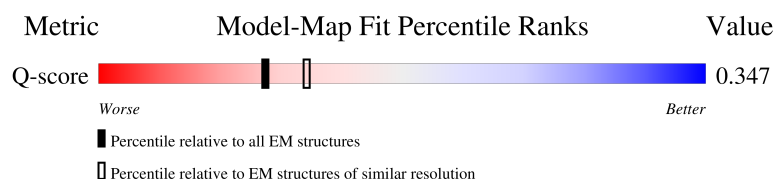
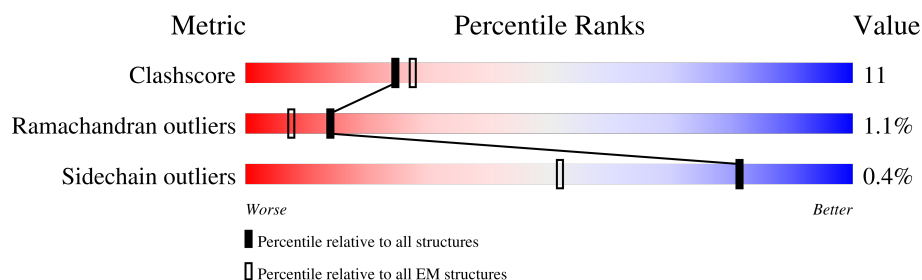
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.90 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	8855 (3.40 - 4.40)

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	0	285	58% 87% 13%
1	1	285	56% 87% 12%
1	2	285	93% 85% 15%
1	3	285	75% 81% 18%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	4	285	53% 81% 19%
1	5	285	63% 82% 18%
1	6	285	60% 85% 15%
1	7	285	49% 82% 18%
1	8	285	59% 81% 19%
1	9	285	60% 85% 15%
1	v	285	97% 77% 22% .
1	w	285	97% 84% 16%
1	x	285	85% 82% 17% .
1	y	285	54% 83% 17%
1	z	285	53% 85% 14%
2	A	1370	68% 67% 29% .
2	B	1370	46% 65% 32% ..
2	C	1370	39% 68% 30% .
2	D	1370	36% 67% 31% ..
2	E	1370	34% 69% 29% ..
2	F	1370	38% 69% 28% ..
2	G	1370	47% 69% 29% .
2	H	1370	31% 72% 27% .
2	I	1370	30% 72% 26% .
2	J	1370	29% 71% 26% ..
2	K	1370	29% 70% 28% ..
2	L	1370	30% 72% 26% ..
2	M	1370	34% 72% 26% .
2	N	1370	30% 74% 25% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	O	1370	
2	P	1370	
3	Q	75	
3	R	75	
3	S	75	
3	T	75	
3	U	75	
3	V	75	
3	W	75	
3	X	75	
3	Y	75	
3	Z	75	
3	a	75	
3	b	75	
3	c	75	
3	d	75	
3	e	75	
3	f	75	
4	g	290	
4	j	290	
4	m	290	
4	p	290	
4	s	290	
5	h	306	
5	i	306	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
5	k	306	
5	l	306	
5	n	306	
5	o	306	
5	q	306	
5	r	306	
5	t	306	
5	u	306	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 248627 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 Tegument protein pp150.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	1	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	2	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	3	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	4	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	5	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	6	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	7	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	8	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	9	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	v	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	w	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	x	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	y	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	z	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		

- Molecule 2 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	1329	Total	C	N	O	S	0	0
			10527	6711	1822	1933	61		
2	B	1335	Total	C	N	O	S	0	0
			10574	6733	1830	1950	61		
2	C	1349	Total	C	N	O	S	0	0
			10686	6805	1852	1968	61		
2	D	1346	Total	C	N	O	S	0	0
			10670	6796	1849	1964	61		
2	E	1347	Total	C	N	O	S	0	0
			10676	6799	1850	1966	61		
2	F	1350	Total	C	N	O	S	0	0
			10693	6809	1853	1970	61		
2	G	1351	Total	C	N	O	S	0	0
			10705	6816	1854	1974	61		
2	H	1352	Total	C	N	O	S	0	0
			10710	6819	1855	1975	61		
2	I	1347	Total	C	N	O	S	0	0
			10676	6799	1850	1966	61		
2	J	1335	Total	C	N	O	S	0	0
			10581	6739	1837	1945	60		
2	K	1348	Total	C	N	O	S	0	0
			10681	6802	1851	1967	61		
2	L	1353	Total	C	N	O	S	0	0
			10717	6823	1856	1977	61		
2	M	1353	Total	C	N	O	S	0	0
			10717	6823	1856	1977	61		
2	N	1350	Total	C	N	O	S	0	0
			10693	6809	1853	1970	61		
2	O	1348	Total	C	N	O	S	0	0
			10681	6802	1851	1967	61		
2	P	1348	Total	C	N	O	S	0	0
			10681	6802	1851	1967	61		

- Molecule 3 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Q	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	R	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	S	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	T	63	Total	C	N	O	S	0	0
			513	321	97	91	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
3	U	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	V	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	W	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	X	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	Y	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	Z	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	a	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	b	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	c	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	d	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	e	63	Total 513	C 321	N 97	O 91	S 4	0	0
3	f	63	Total 513	C 321	N 97	O 91	S 4	0	0

- Molecule 4 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	g	260	Total 2091	C 1344	N 365	O 371	S 11	0	0
4	j	290	Total 2325	C 1485	N 411	O 417	S 12	0	0
4	m	290	Total 2325	C 1485	N 411	O 417	S 12	0	0
4	p	290	Total 2325	C 1485	N 411	O 417	S 12	0	0
4	s	290	Total 2325	C 1485	N 411	O 417	S 12	0	0

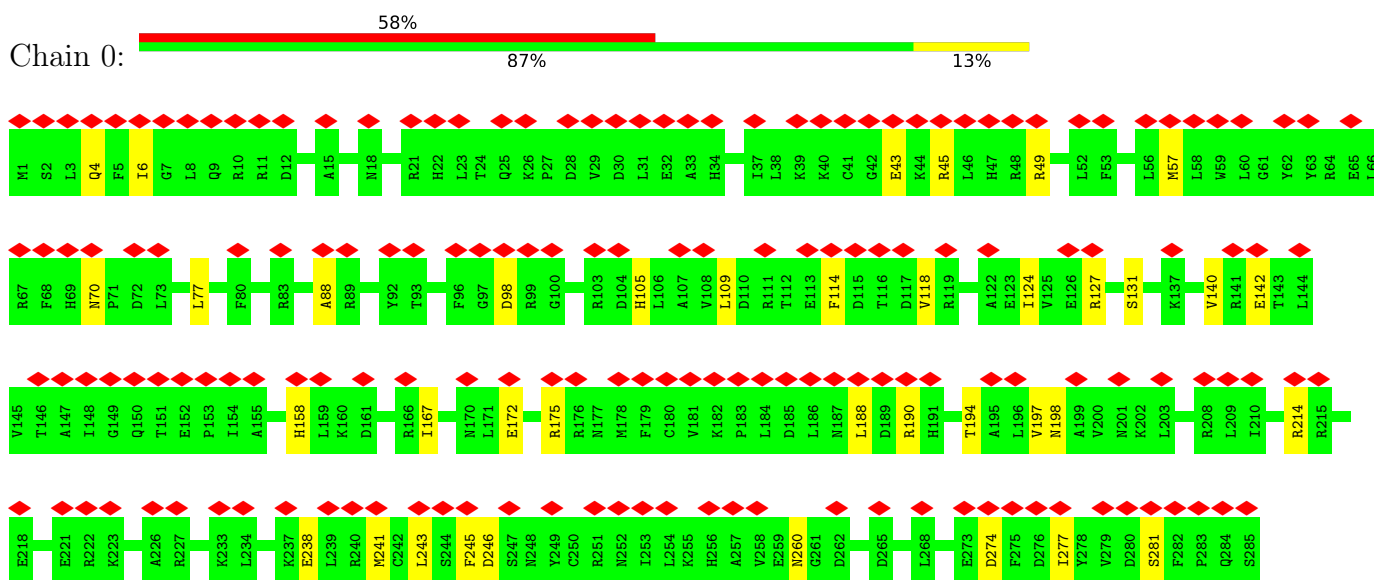
- Molecule 5 is a protein called Triplex capsid protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	h	292	Total	C	N	O	S	0	0
			2316	1490	399	409	18		
5	i	285	Total	C	N	O	S	0	0
			2258	1454	386	401	17		
5	k	292	Total	C	N	O	S	0	0
			2317	1491	399	408	19		
5	l	303	Total	C	N	O	S	0	0
			2406	1541	419	428	18		
5	n	295	Total	C	N	O	S	0	0
			2334	1501	402	412	19		
5	o	291	Total	C	N	O	S	0	0
			2311	1484	398	411	18		
5	q	295	Total	C	N	O	S	0	0
			2334	1501	402	412	19		
5	r	304	Total	C	N	O	S	0	0
			2411	1544	420	429	18		
5	t	296	Total	C	N	O	S	0	0
			2342	1505	403	415	19		
5	u	304	Total	C	N	O	S	0	0
			2411	1544	420	429	18		

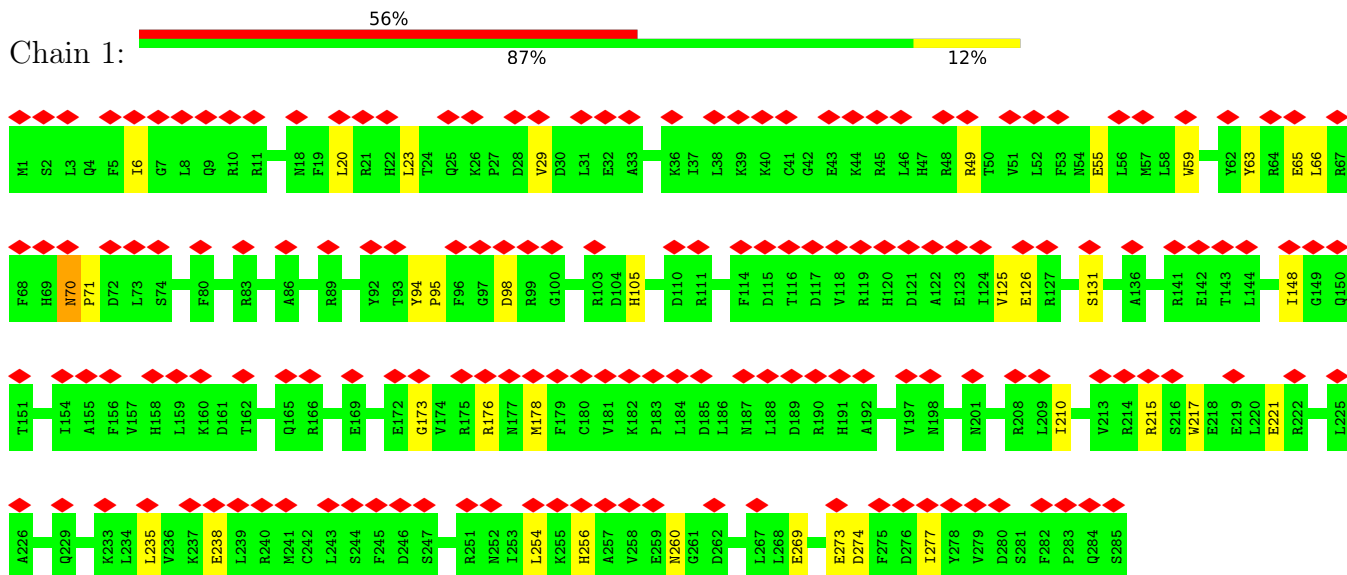
3 Residue-property plots

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.

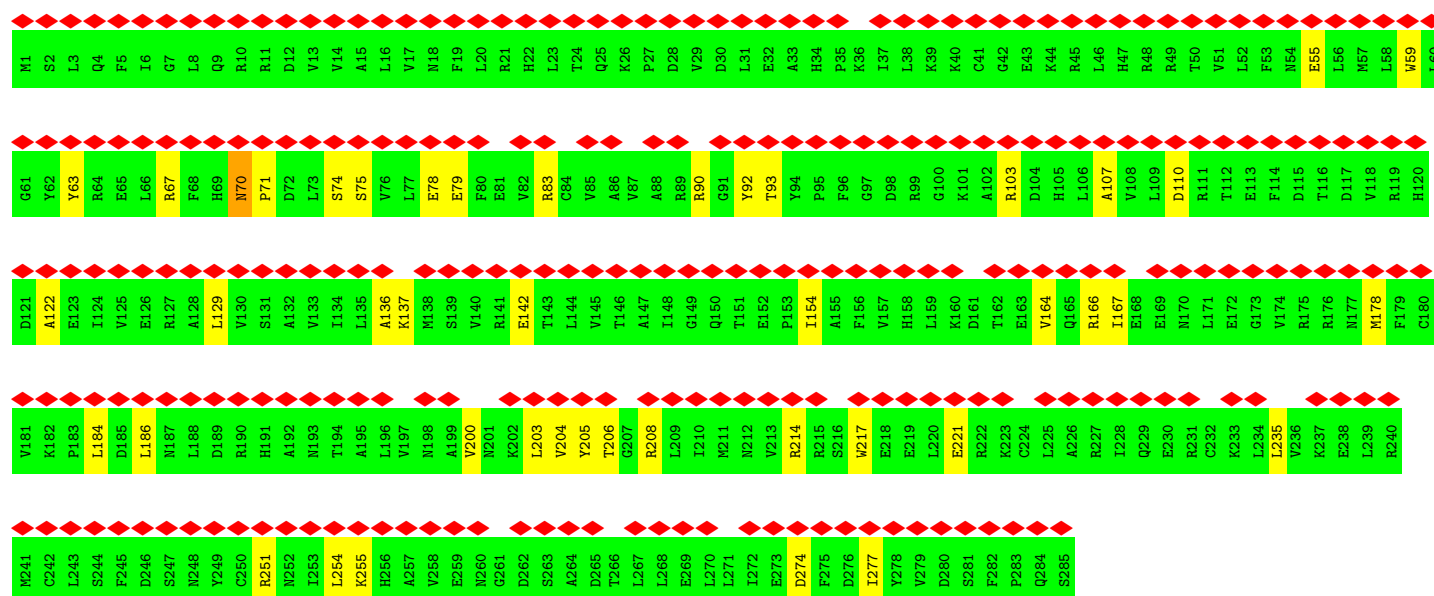
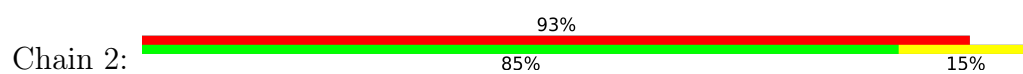
- Molecule 1: Tegument protein pp150



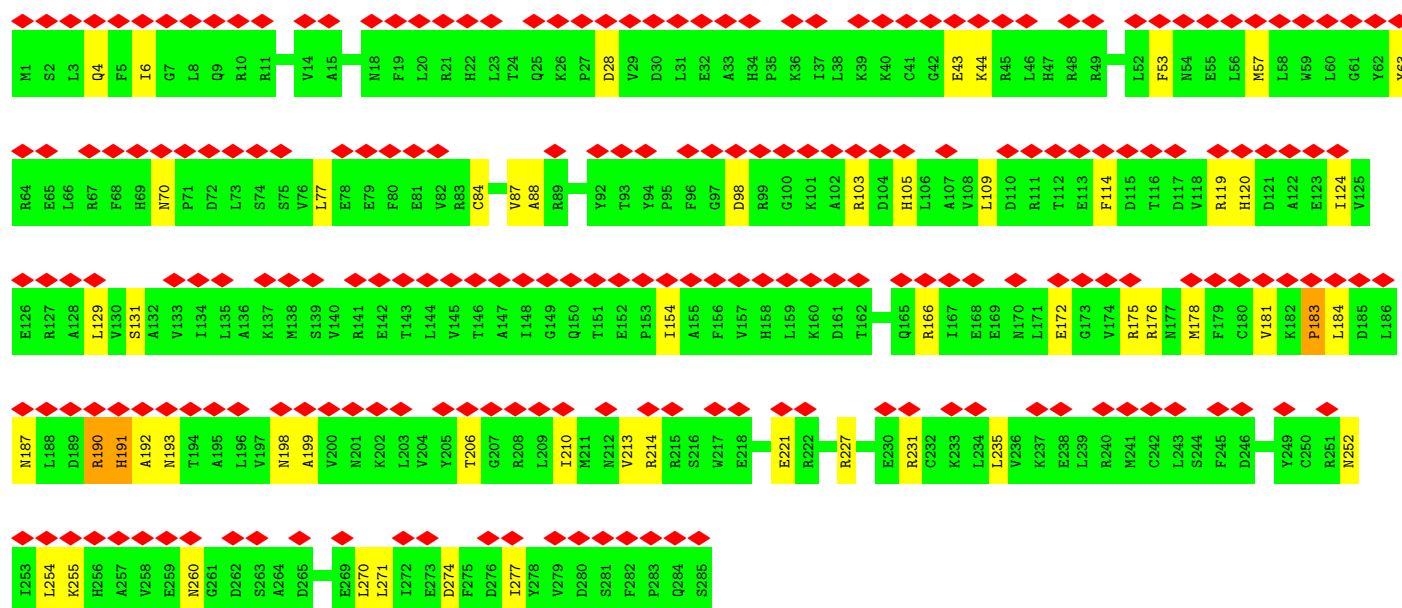
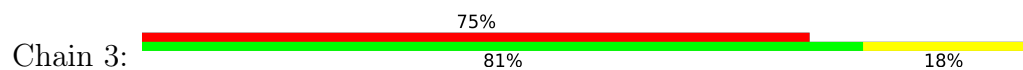
- Molecule 1: Tegument protein pp150



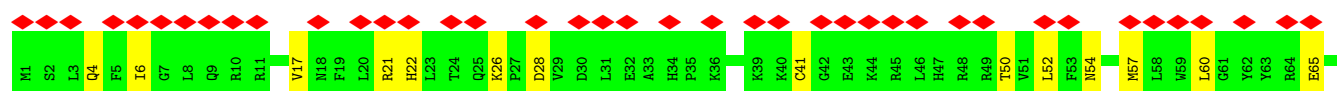
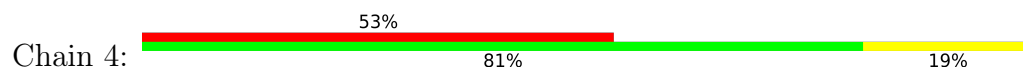
- Molecule 1: Tegument protein pp150

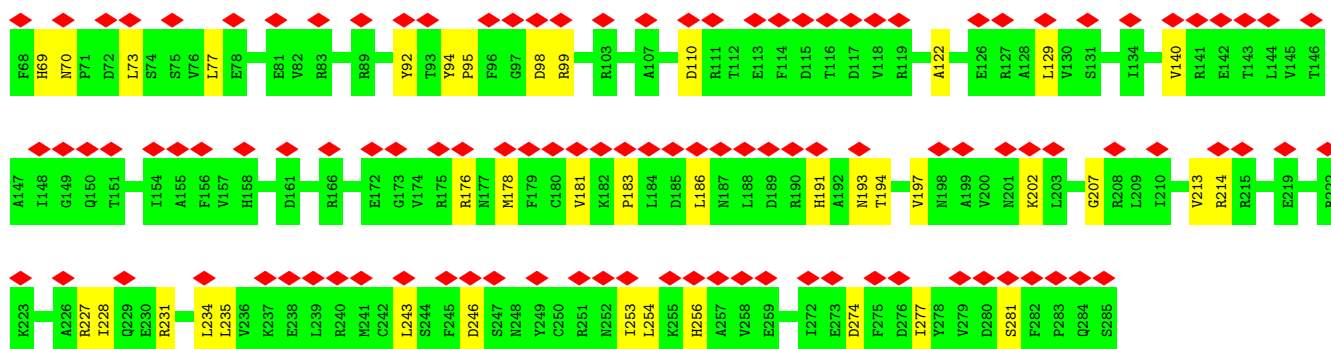


• Molecule 1: Tegument protein pp150

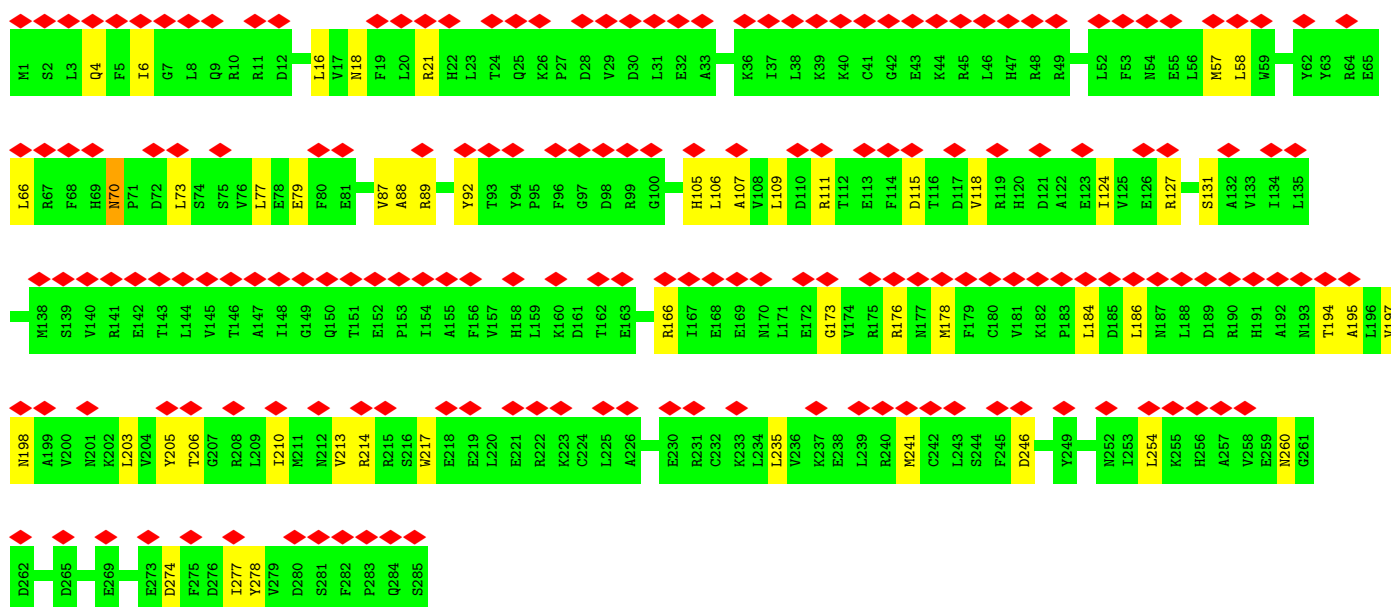
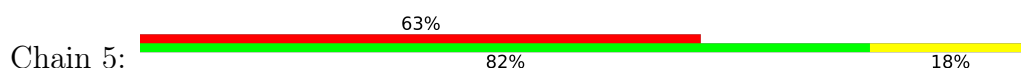


• Molecule 1: Tegument protein pp150

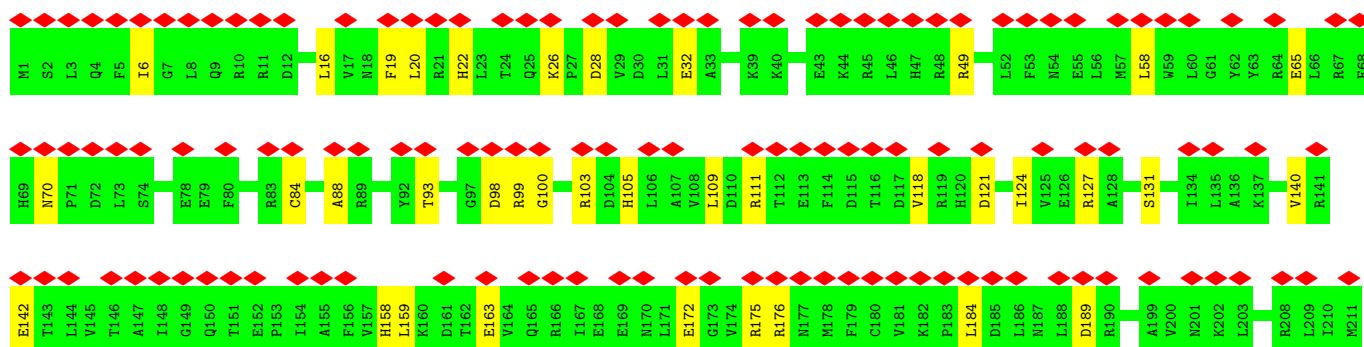
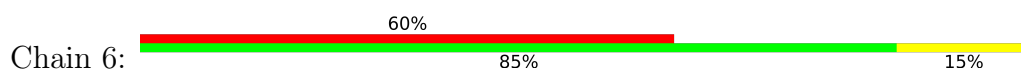


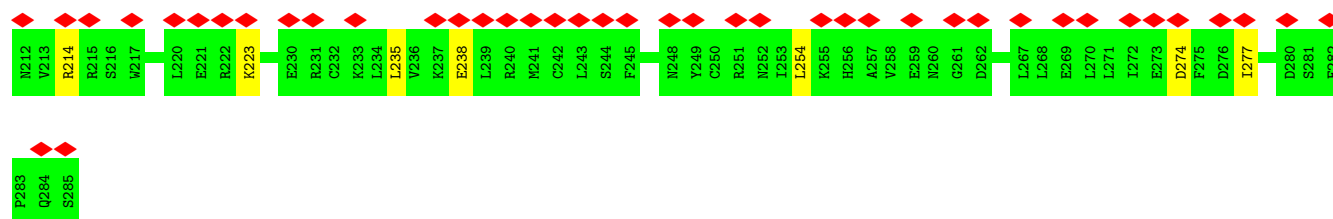


• Molecule 1: Tegument protein pp150

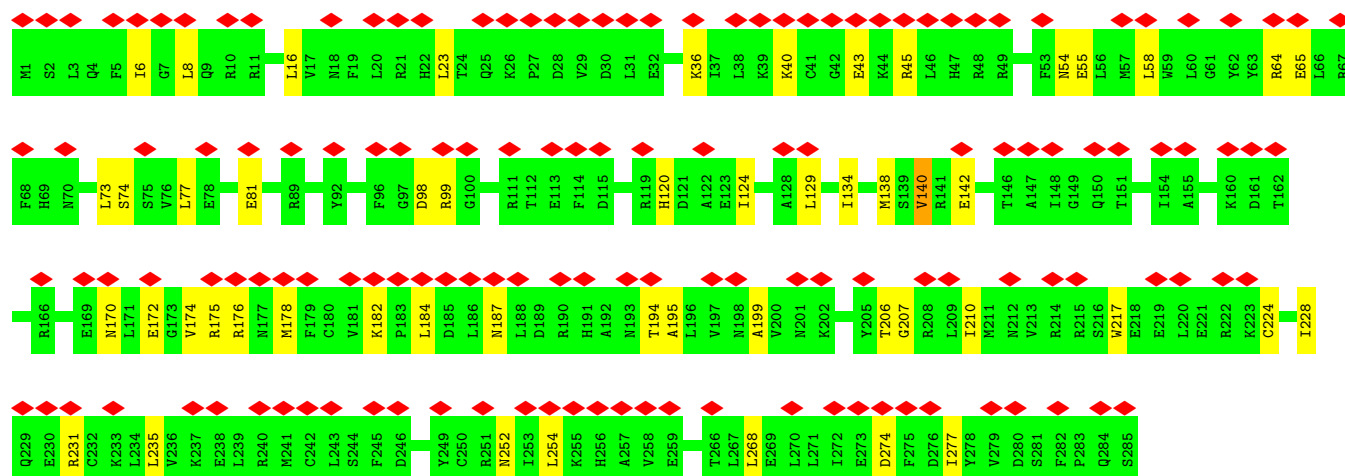
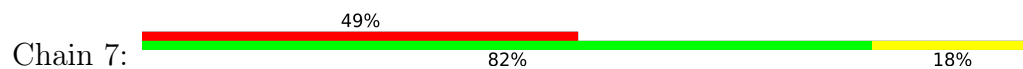


• Molecule 1: Tegument protein pp150

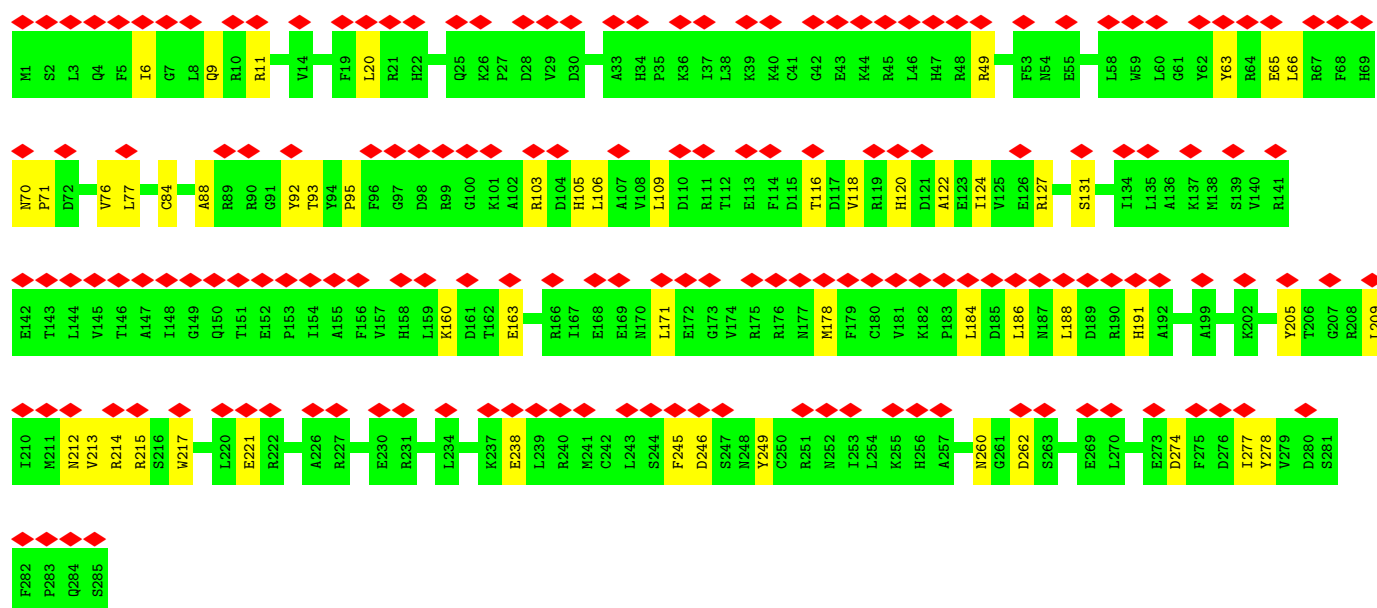
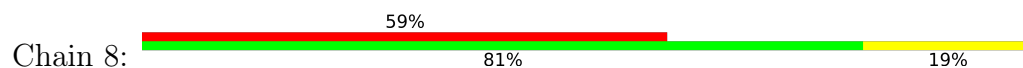




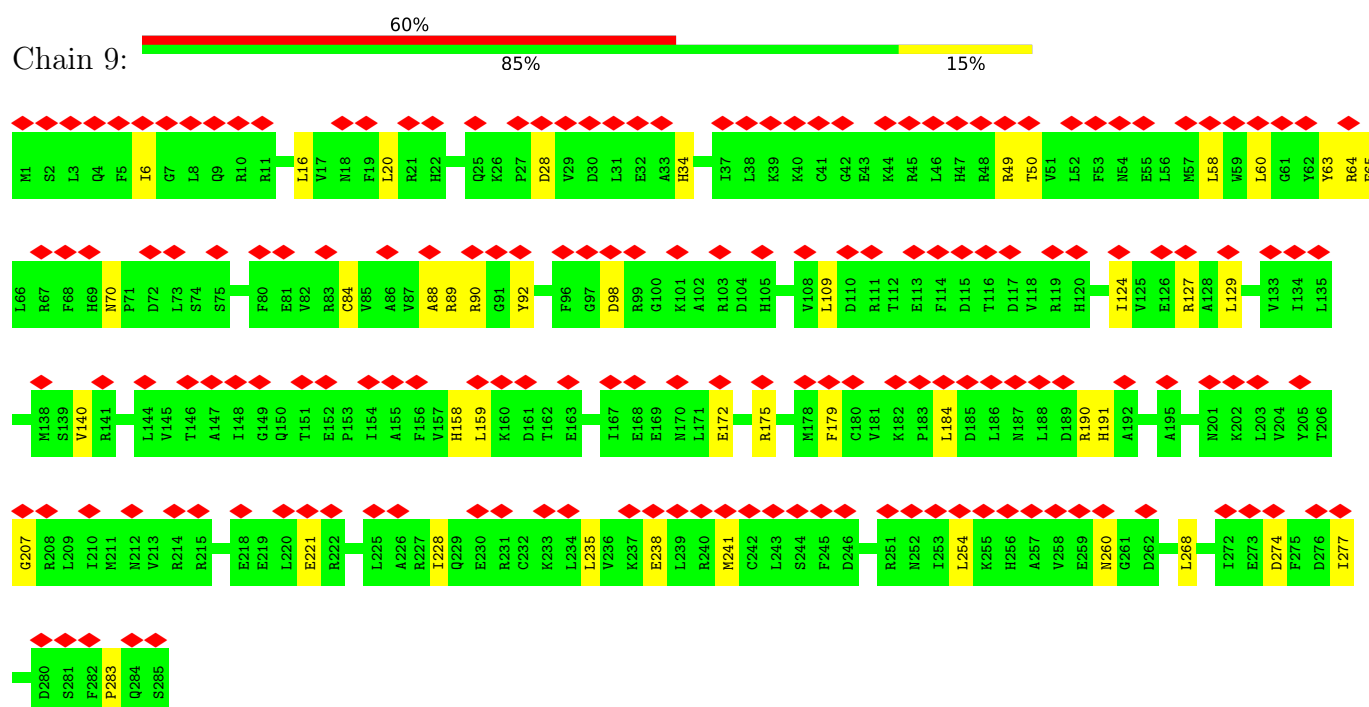
- Molecule 1: Tegument protein pp150



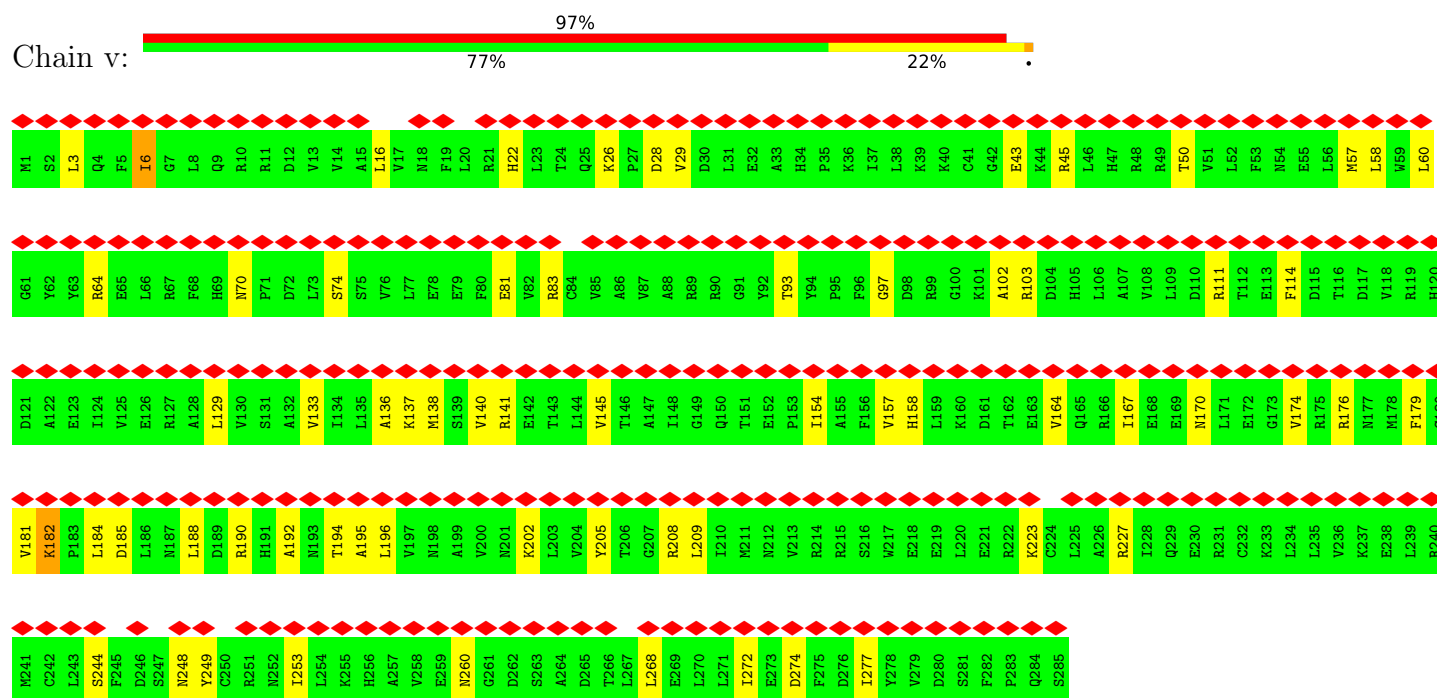
- Molecule 1: Tegument protein pp150



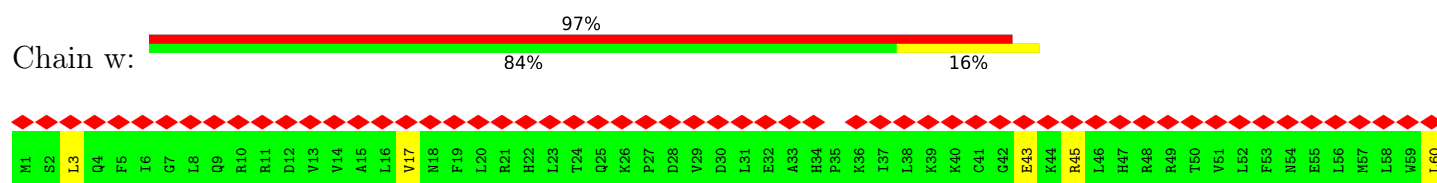
- Molecule 1: Tegument protein pp150

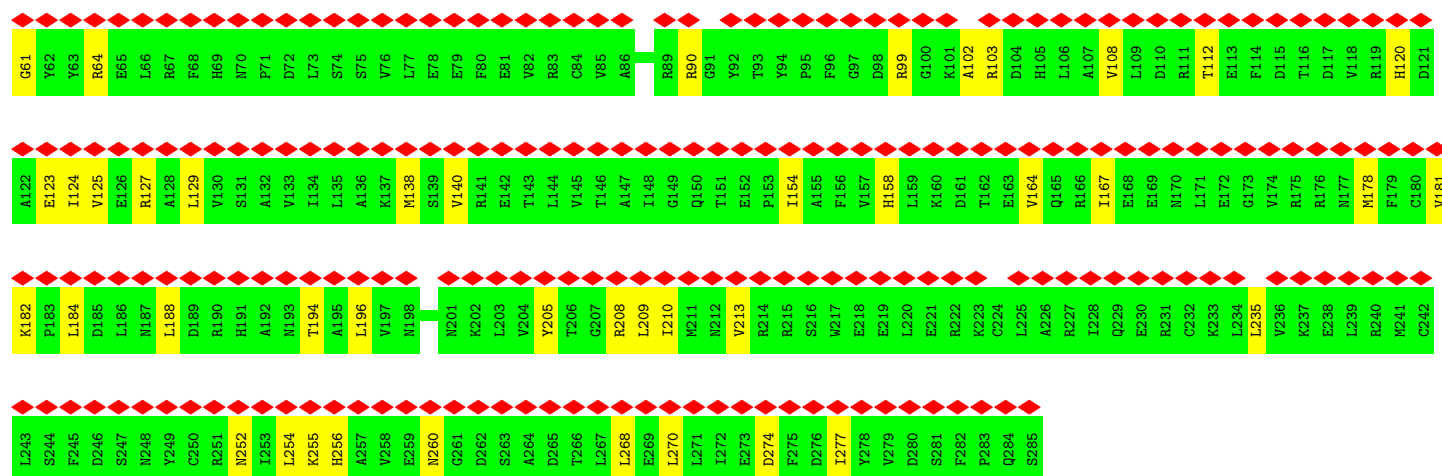


• Molecule 1: Tegument protein pp150

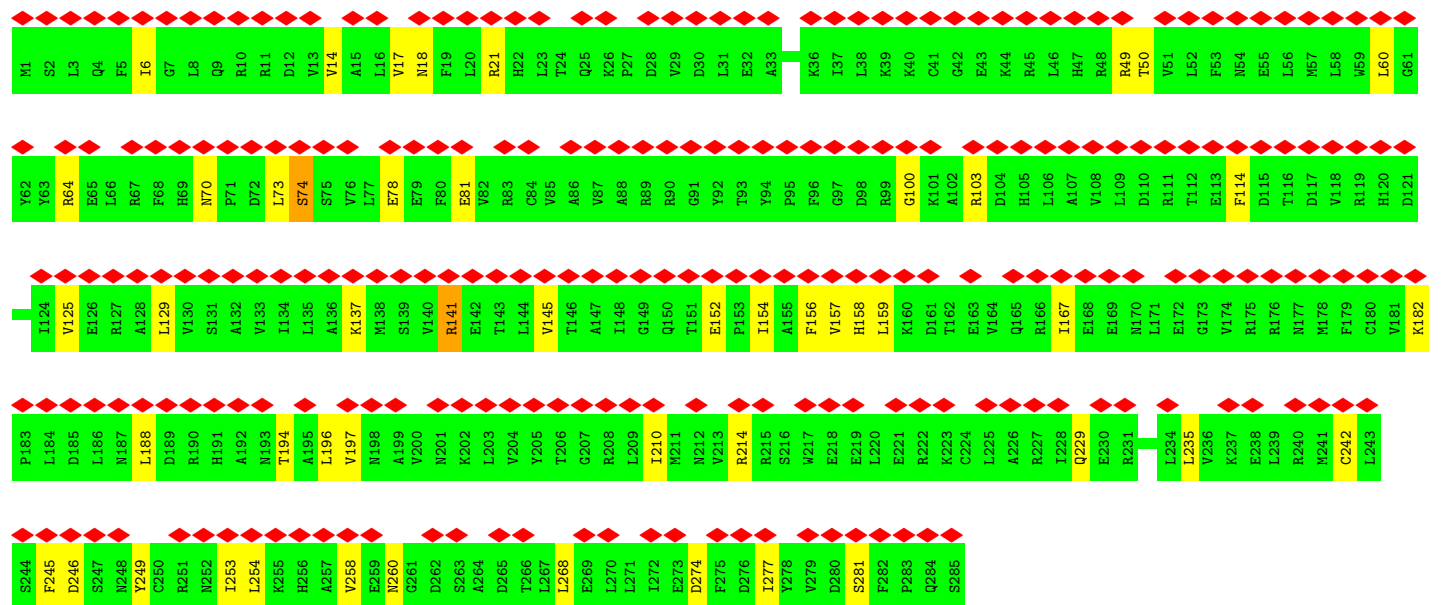
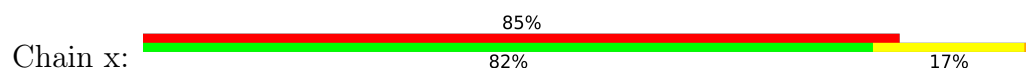


• Molecule 1: Tegument protein pp150

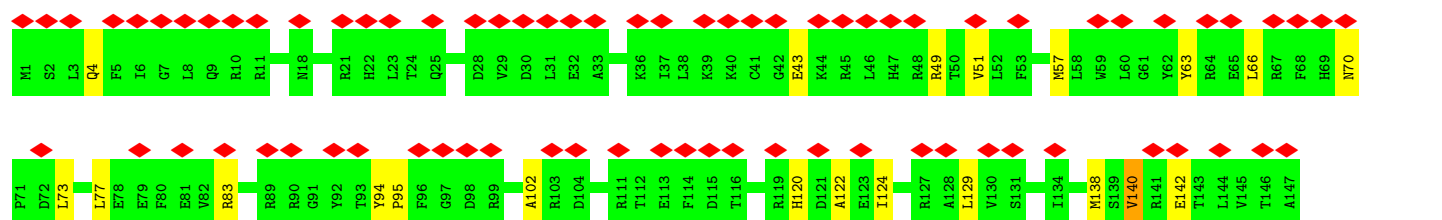
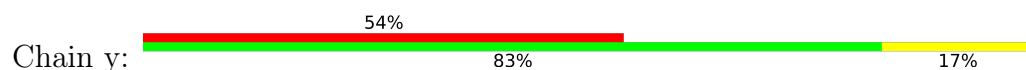


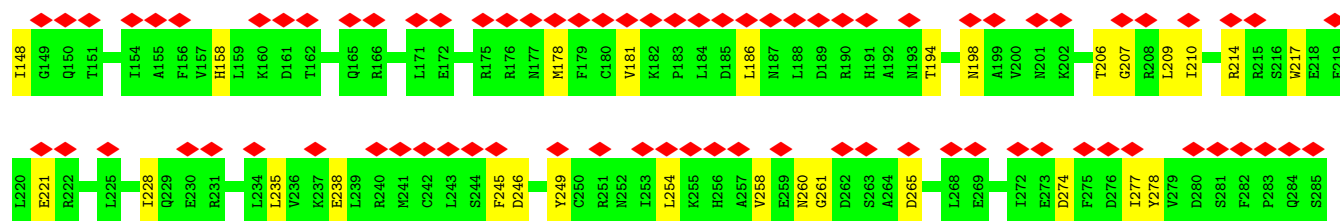


• Molecule 1: Tegument protein pp150

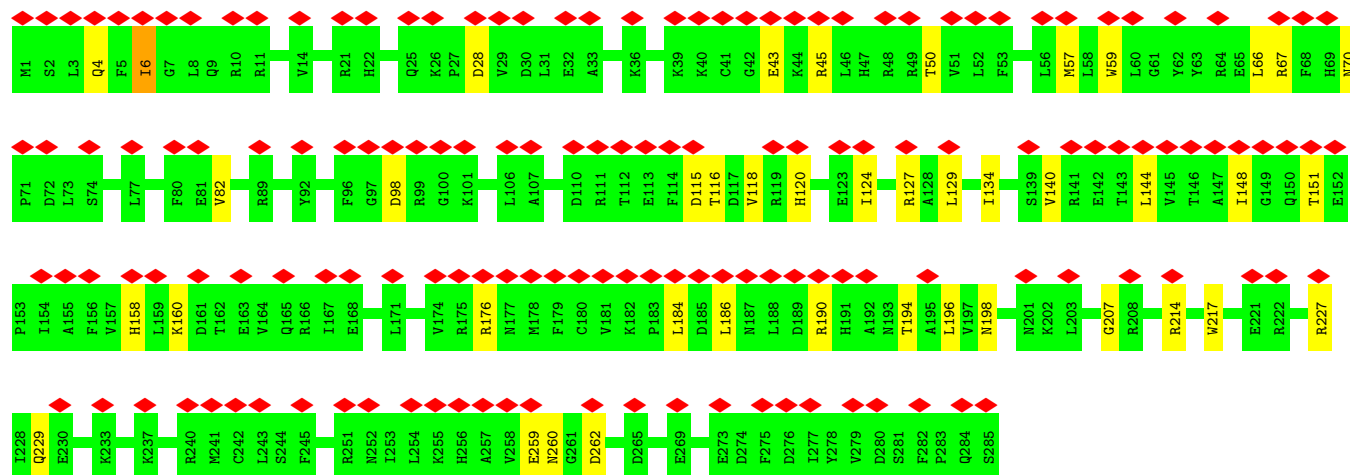
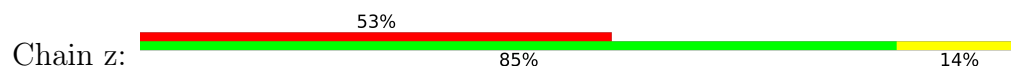


• Molecule 1: Tegument protein pp150

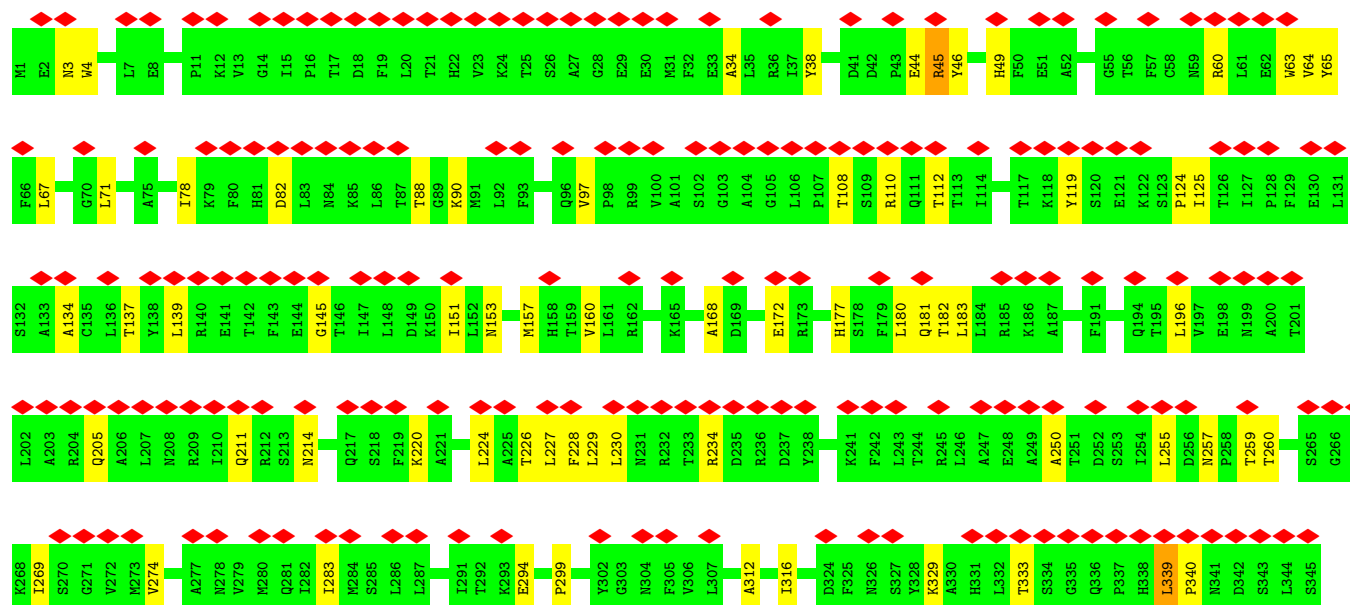




• Molecule 1: Tegument protein pp150

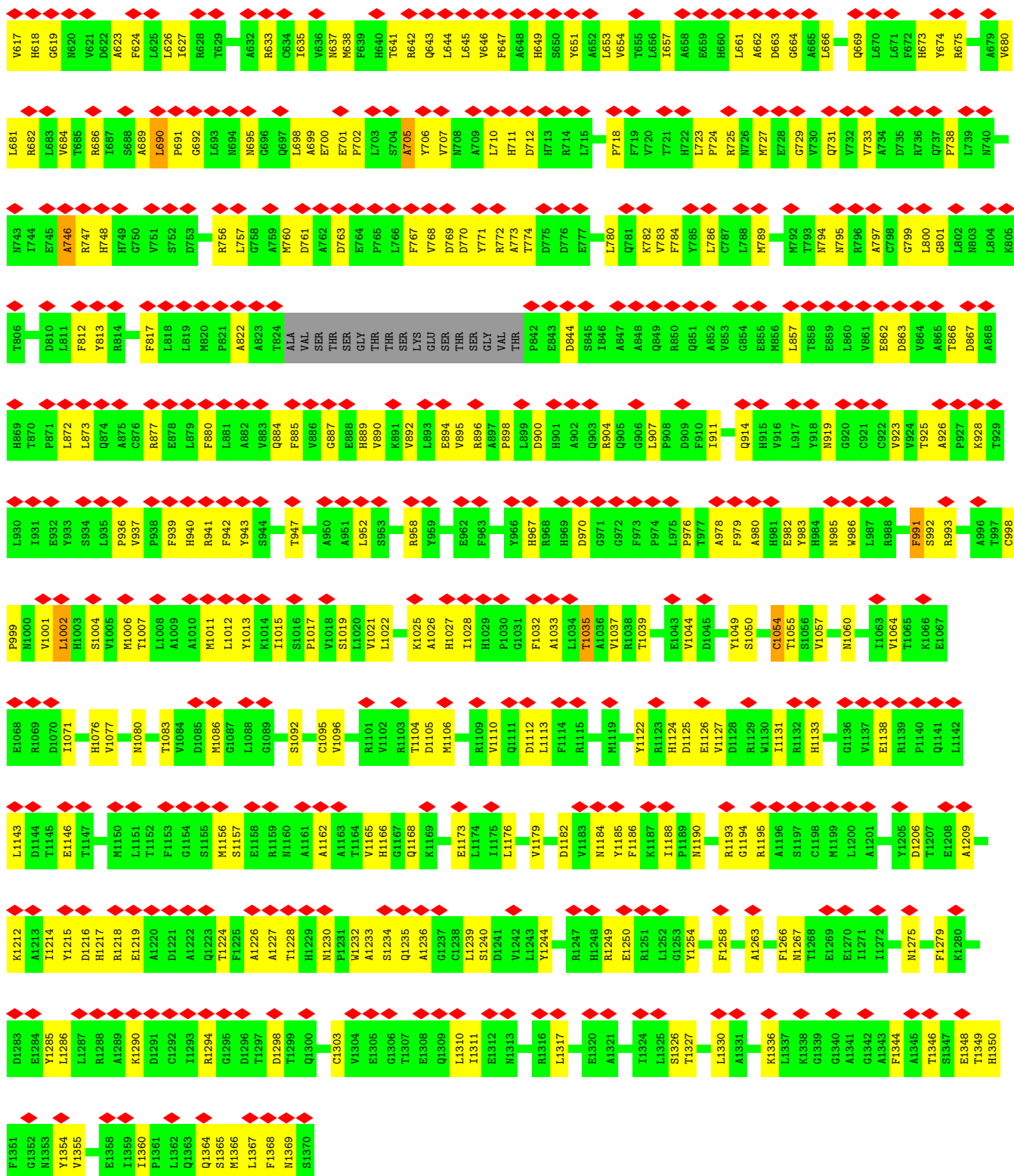


• Molecule 2: Major capsid protein

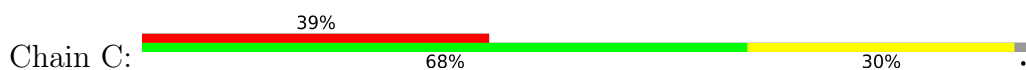


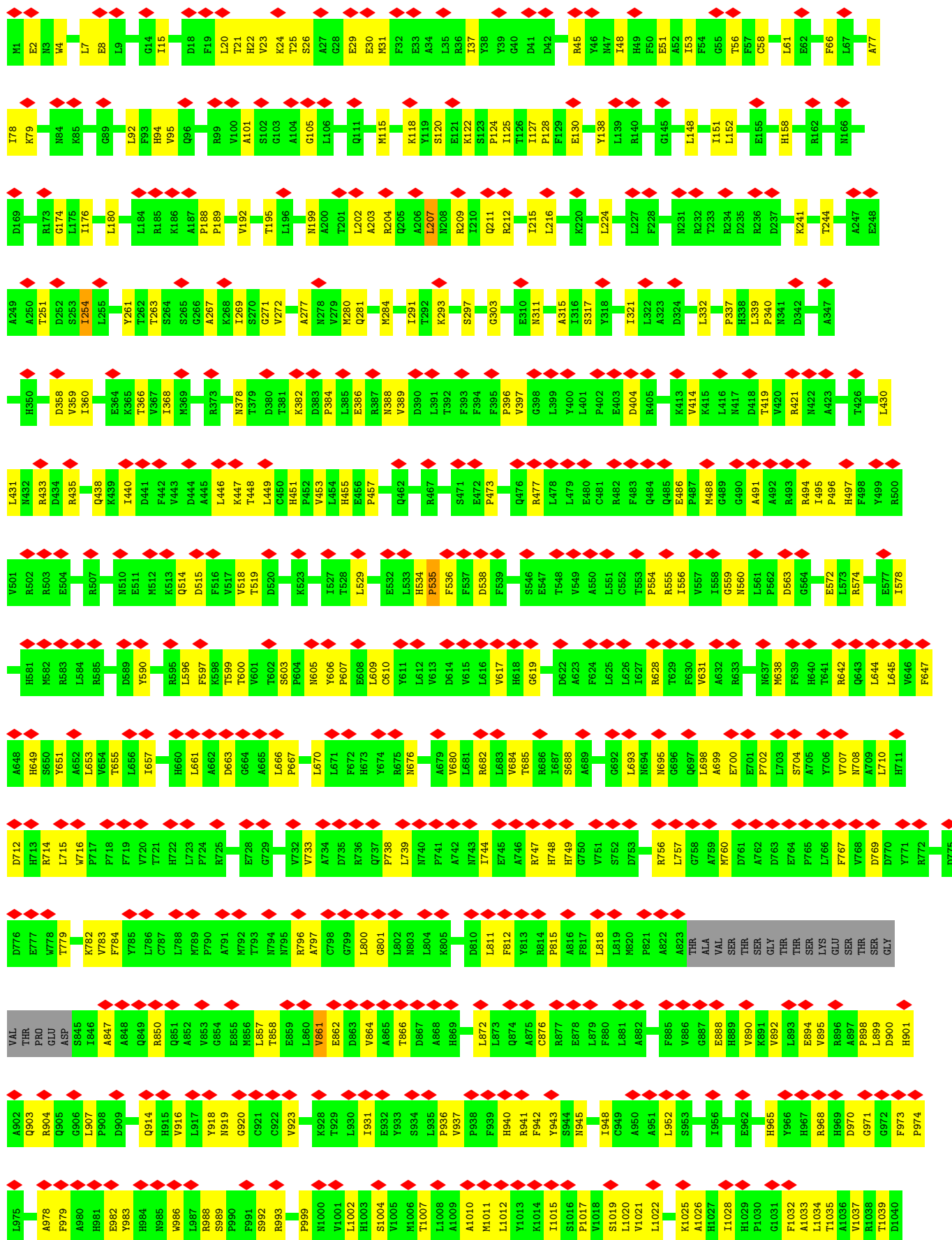


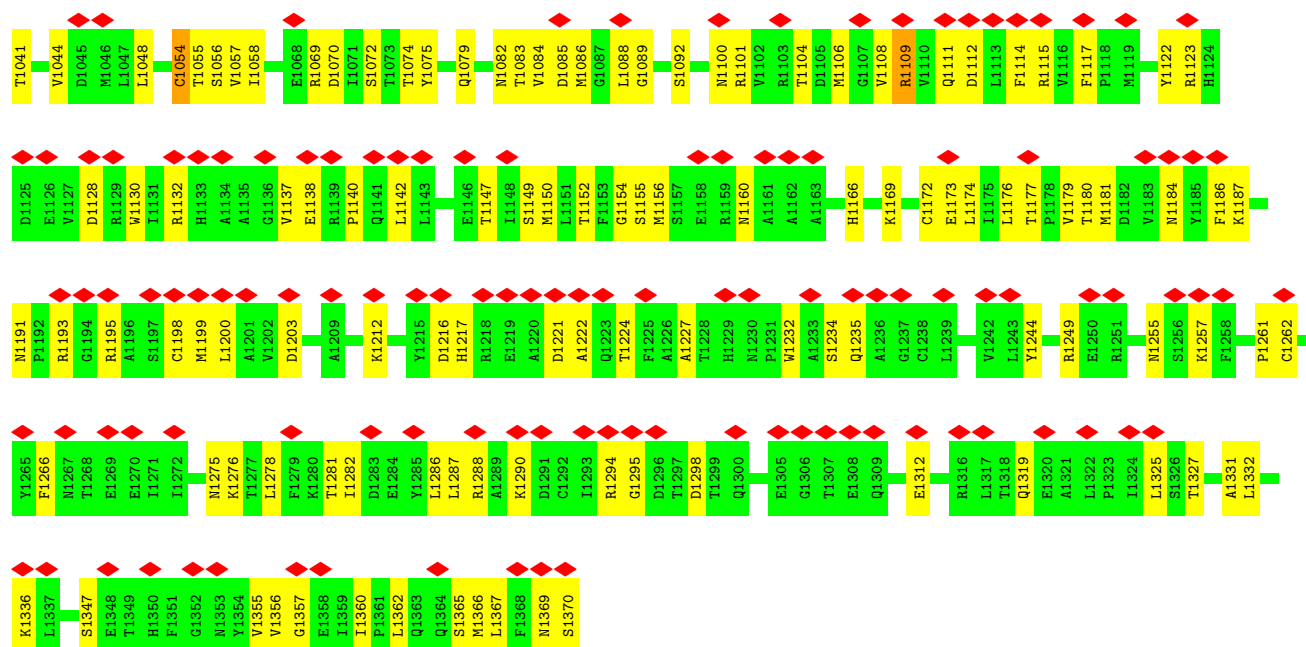




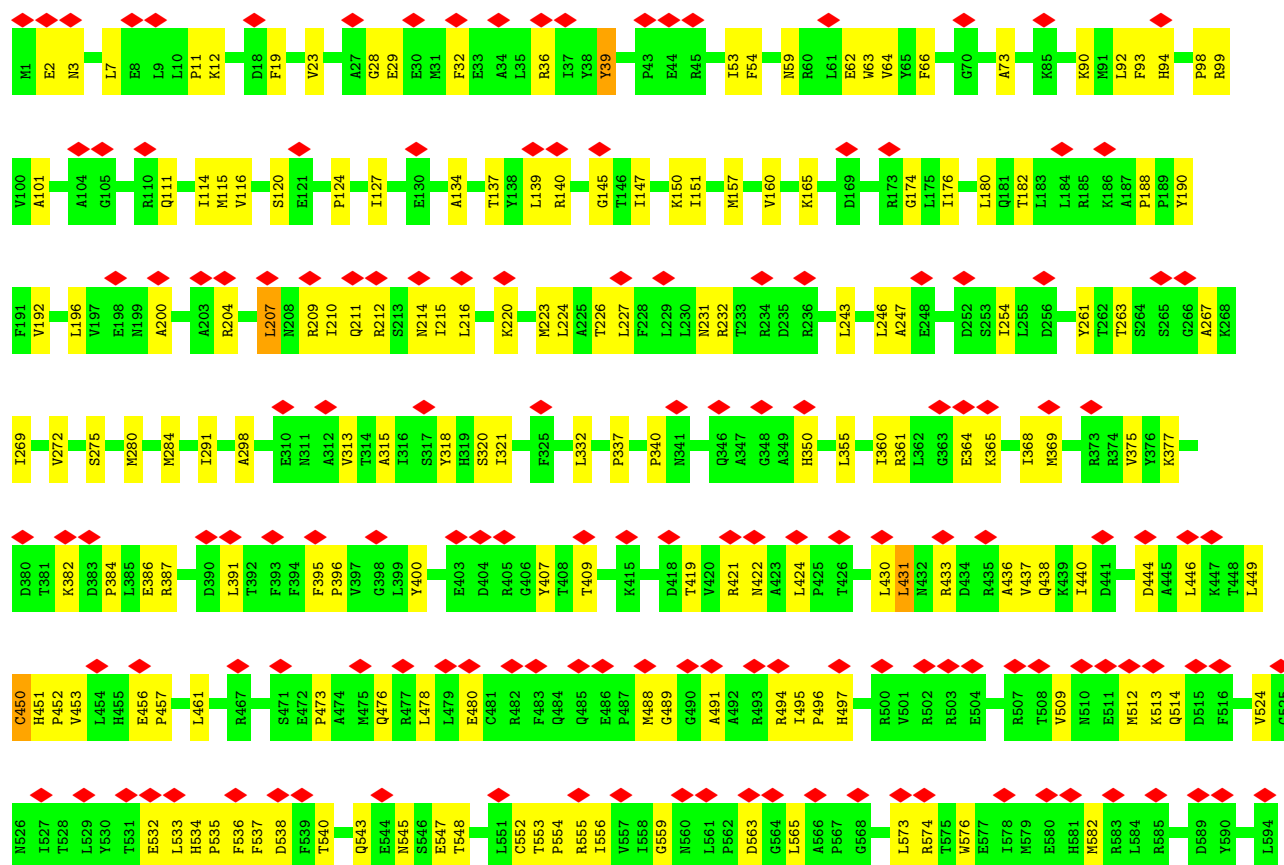
• Molecule 2: Major capsid protein



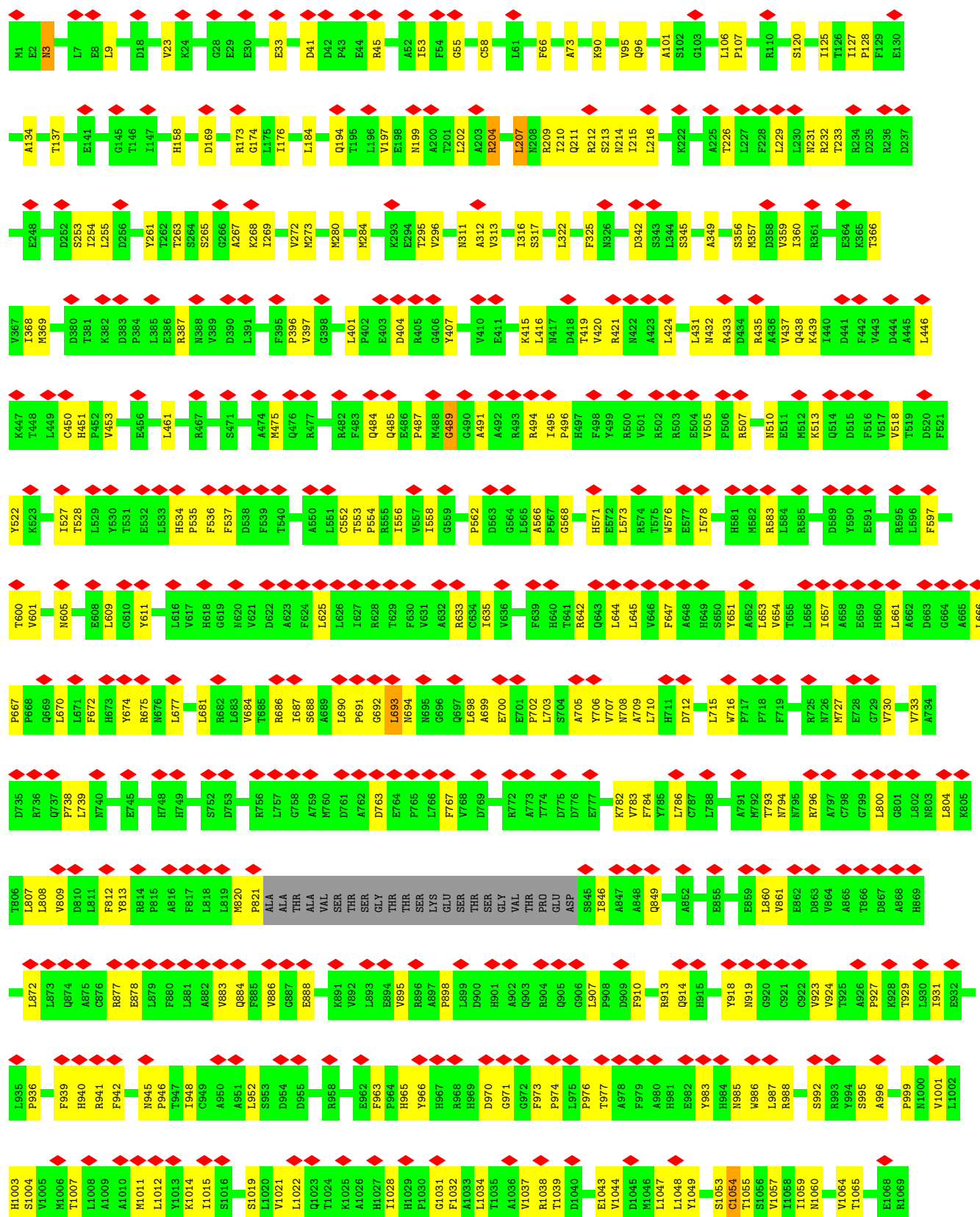


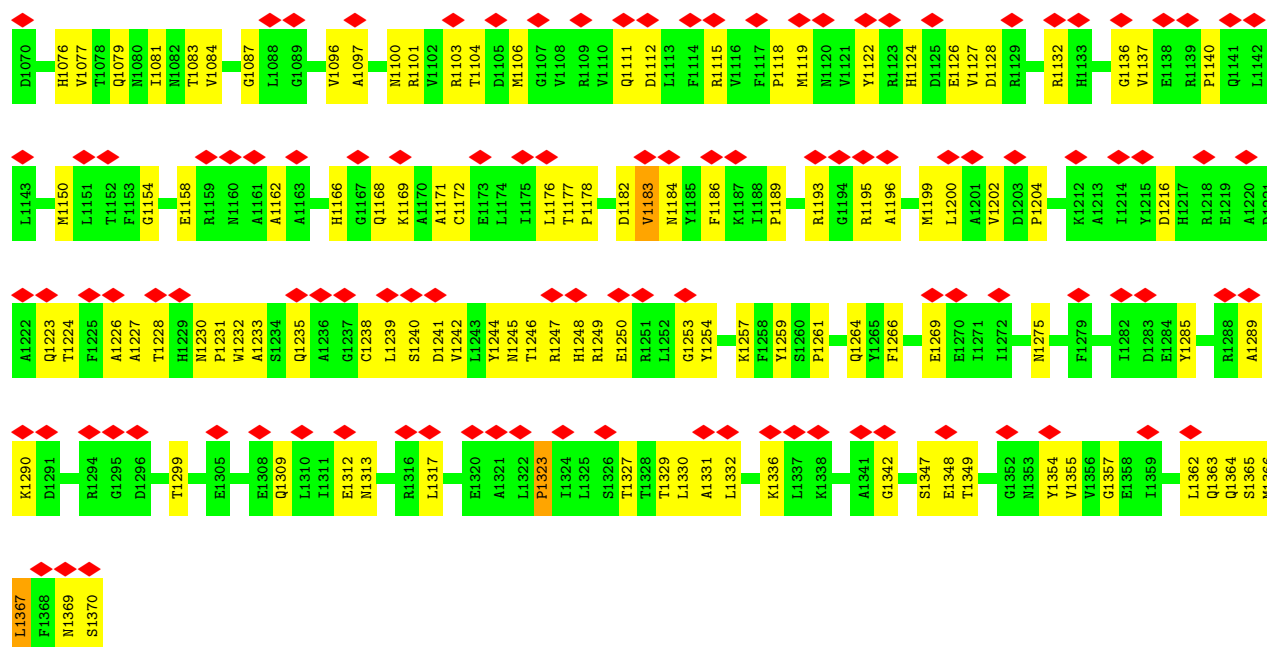


• Molecule 2: Major capsid protein

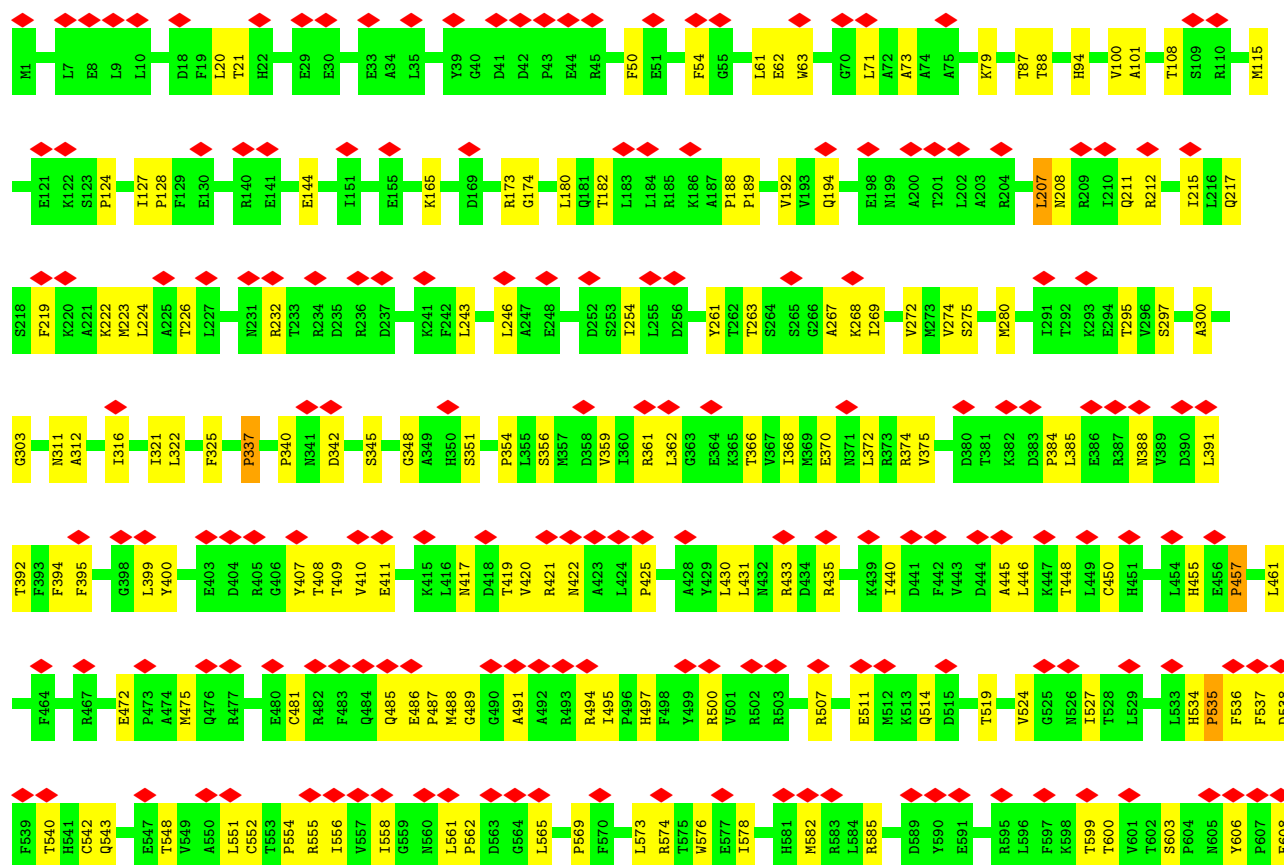
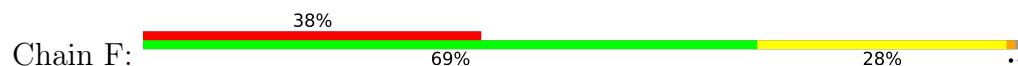


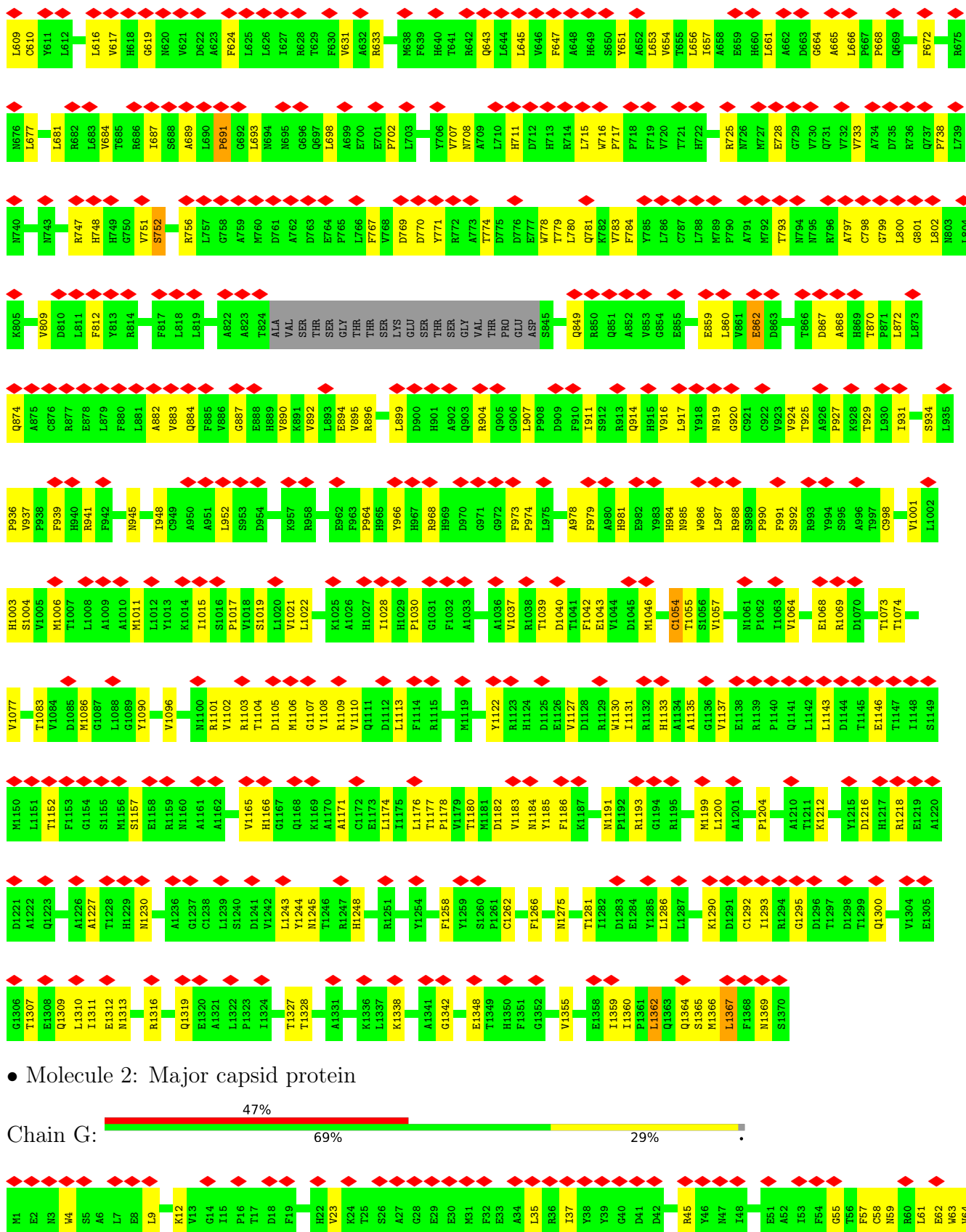


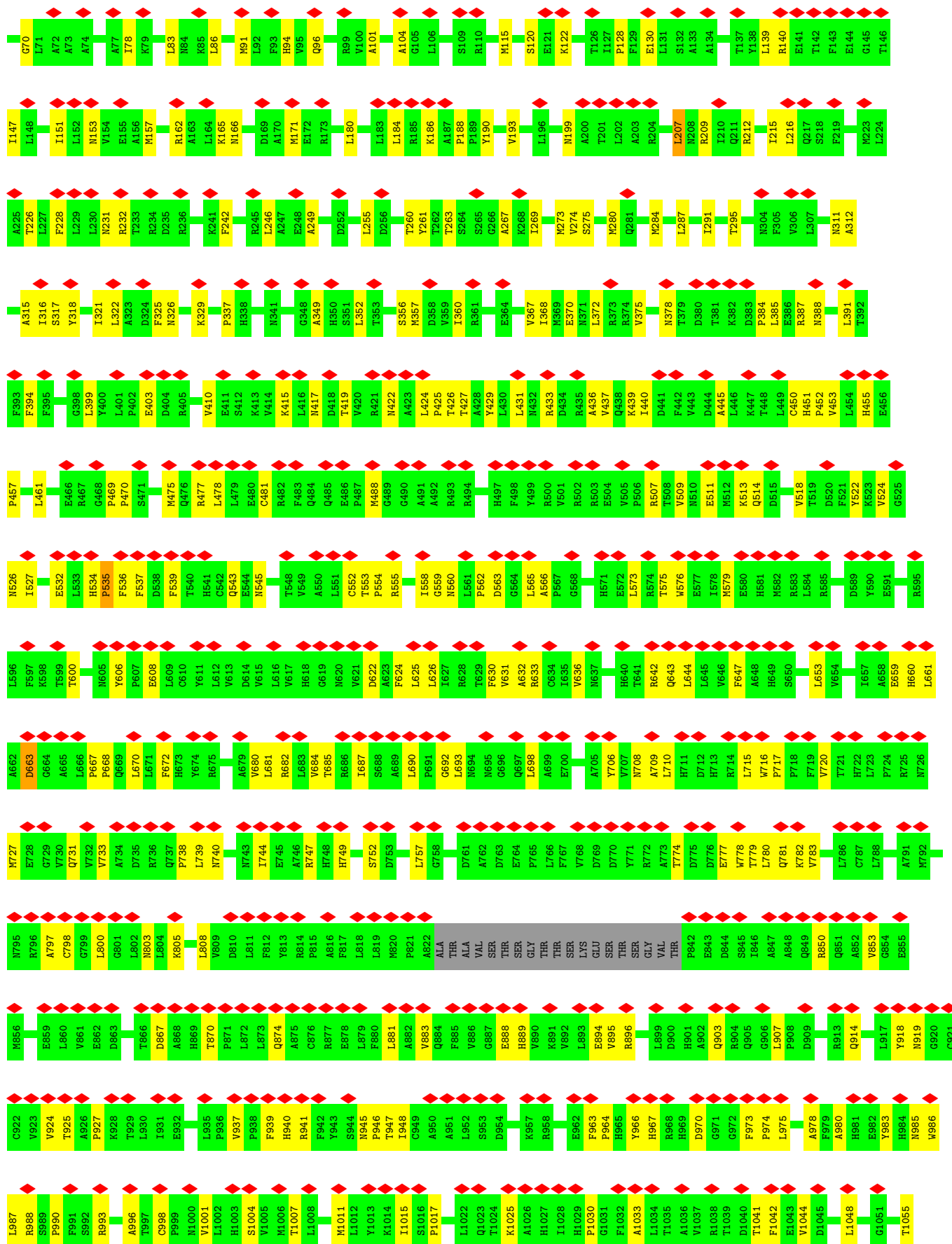


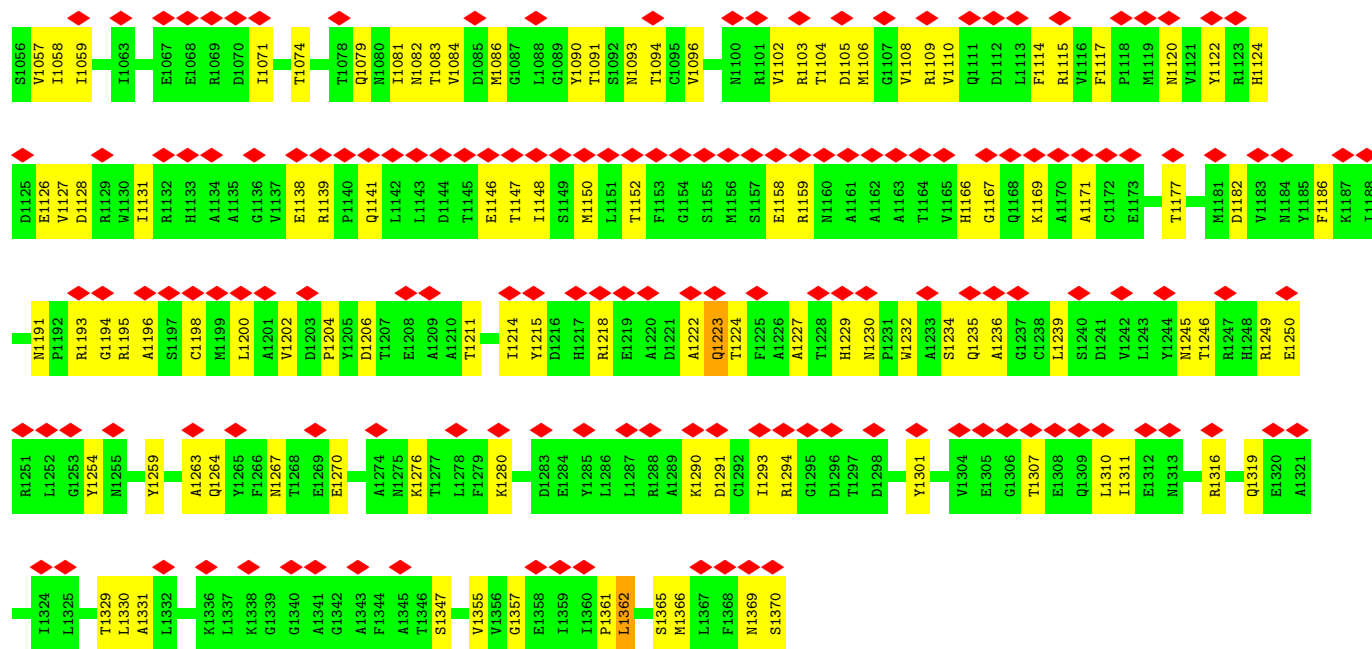


• Molecule 2: Major capsid protein

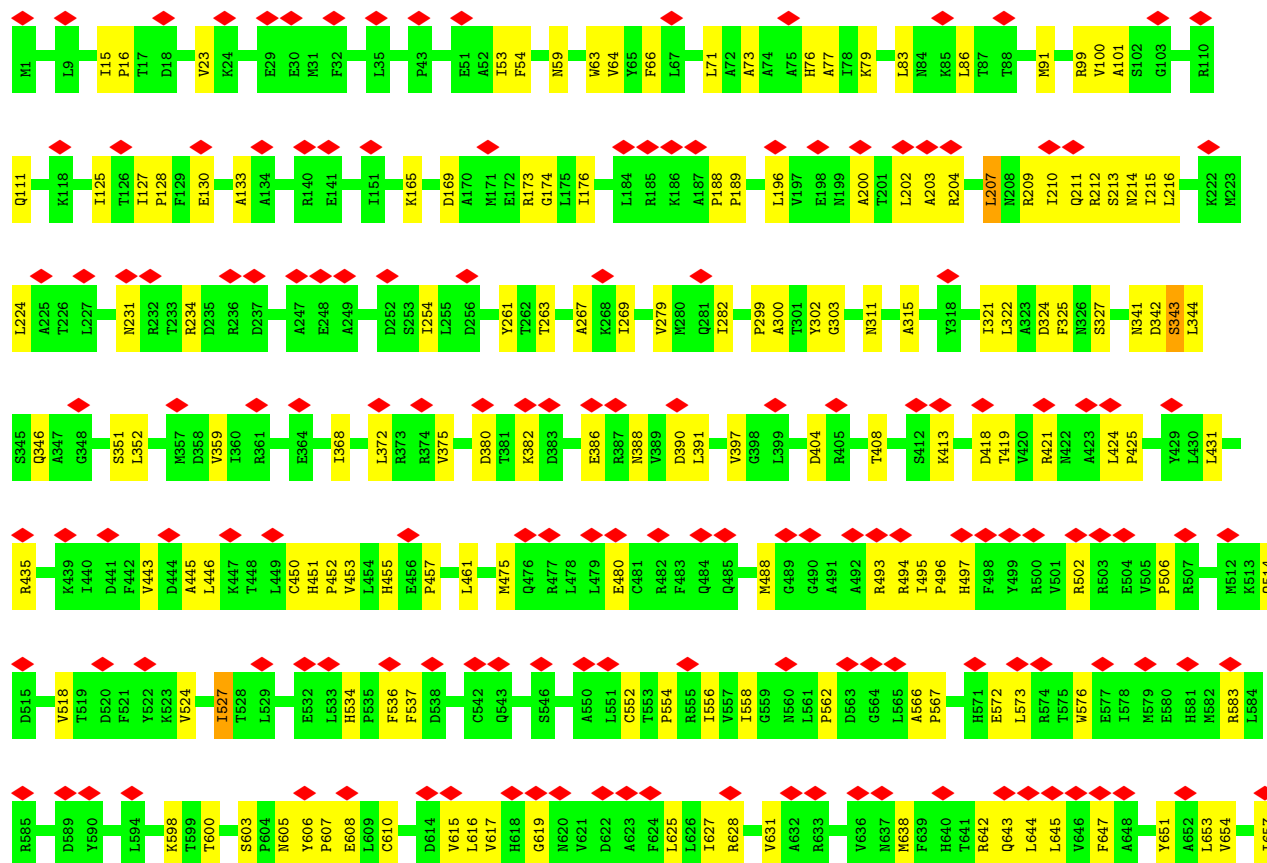


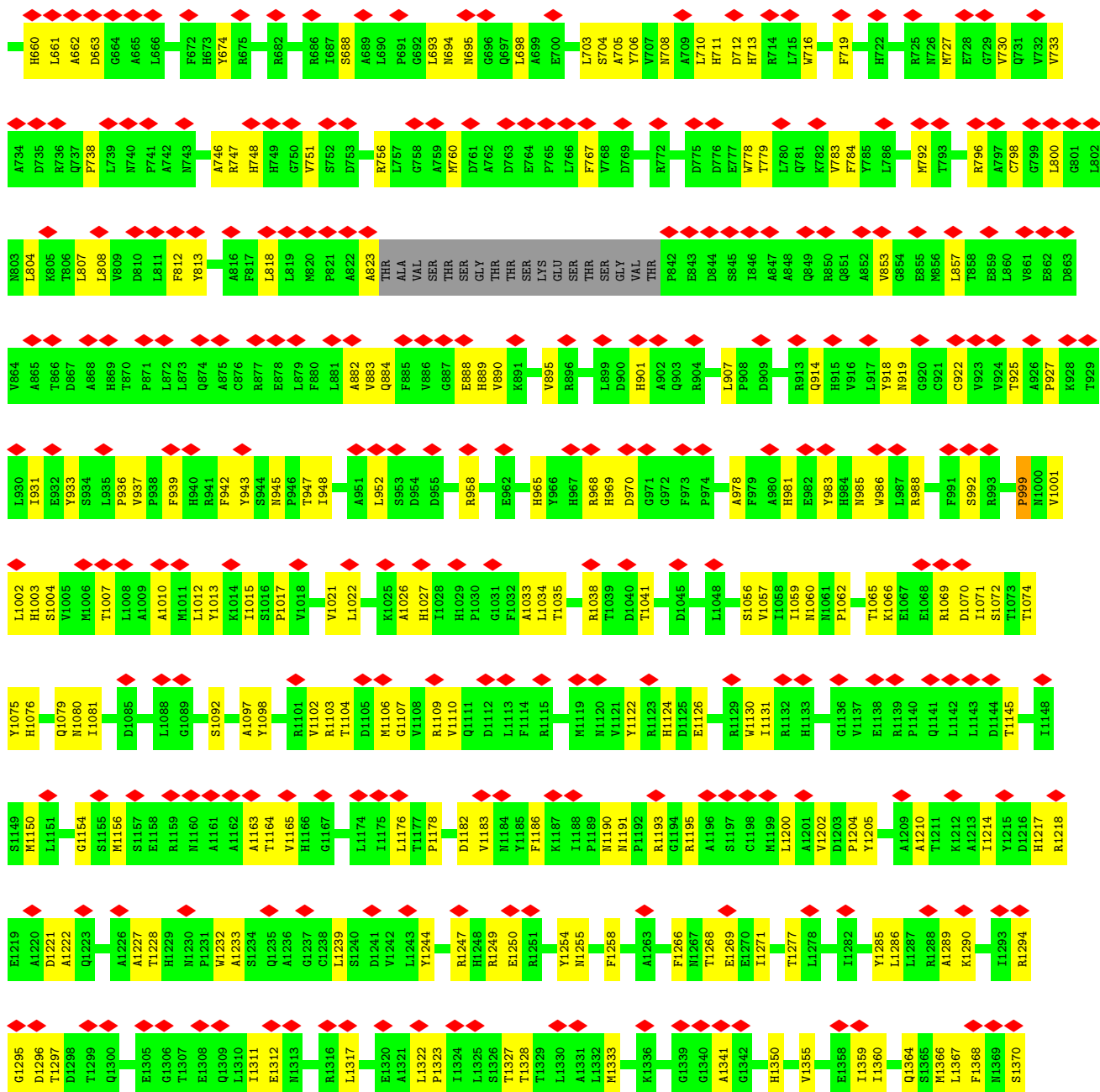




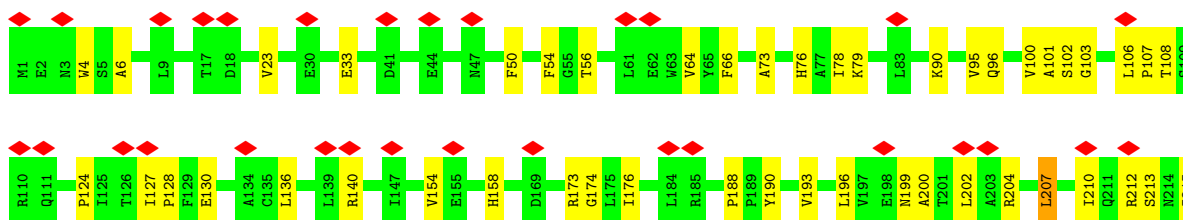


• Molecule 2: Major capsid protein

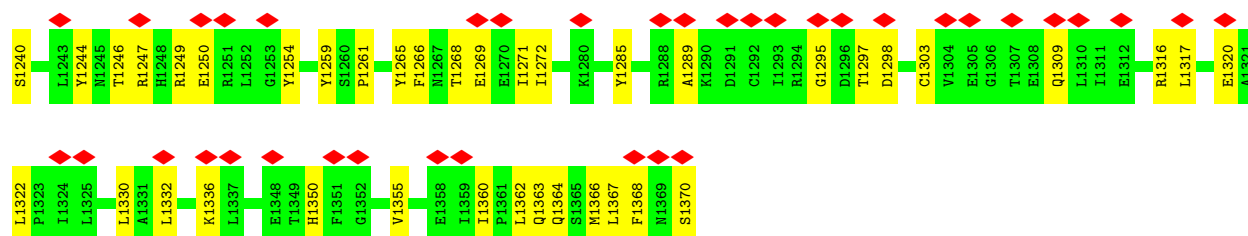




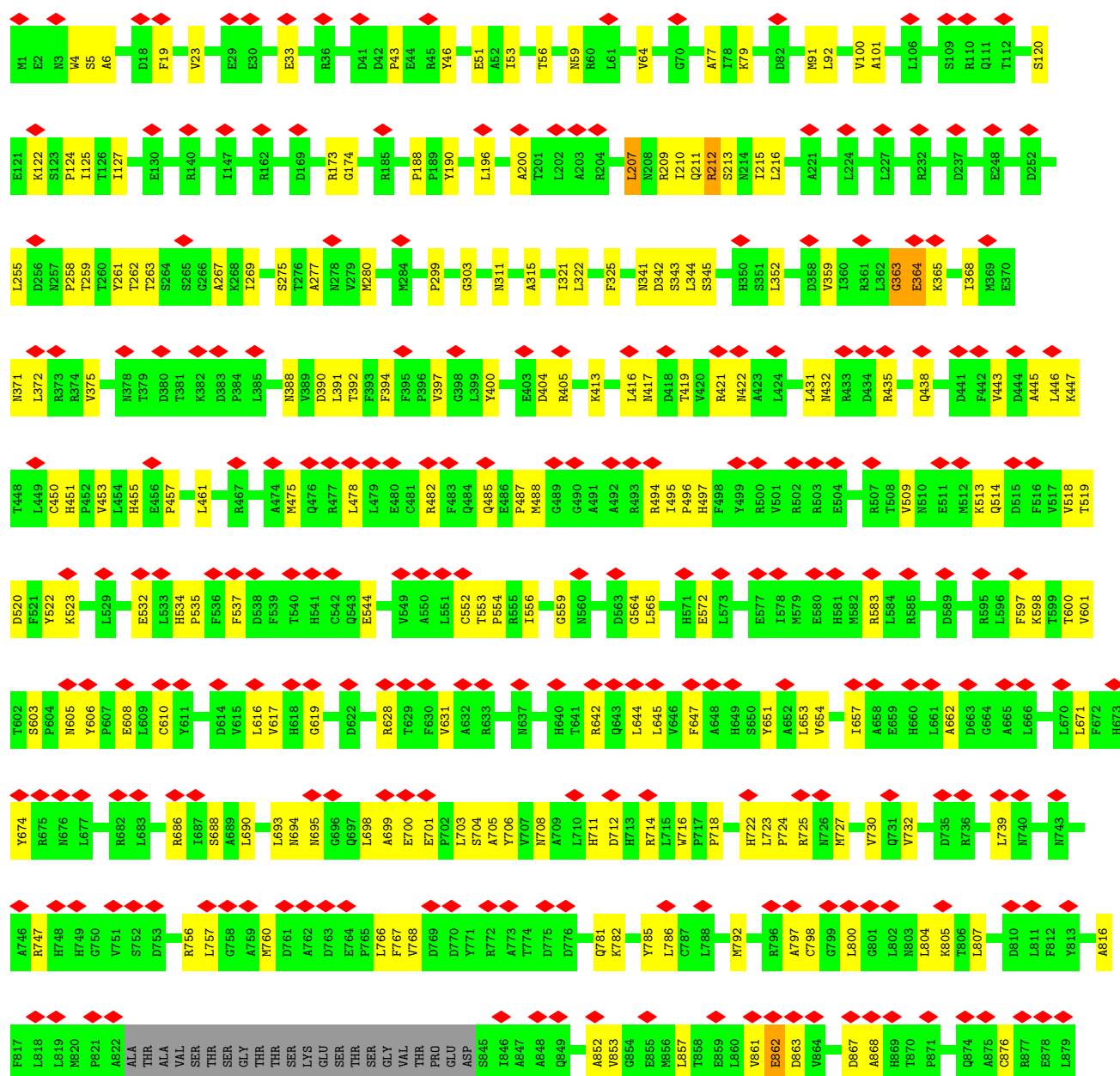
• Molecule 2: Major capsid protein

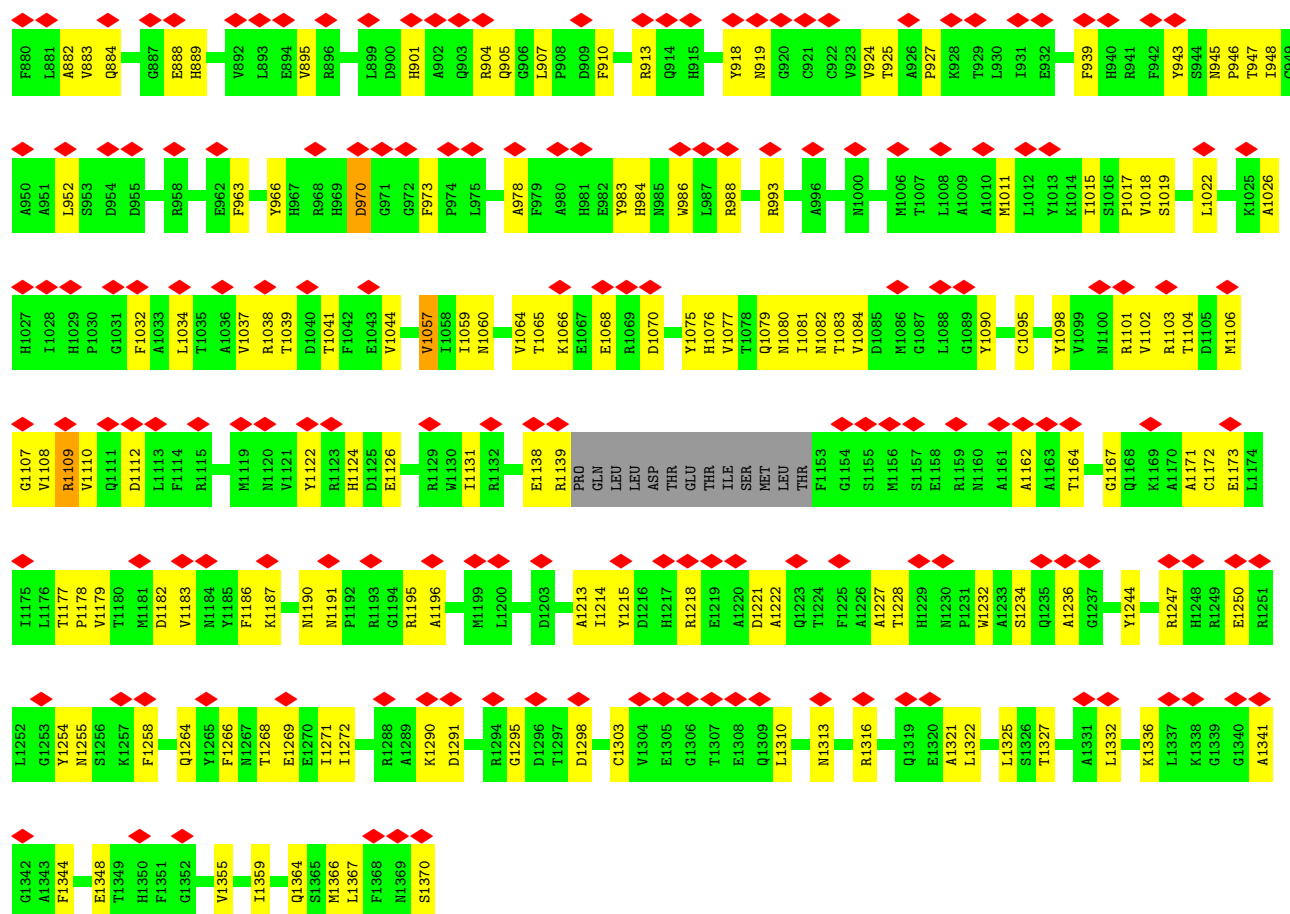




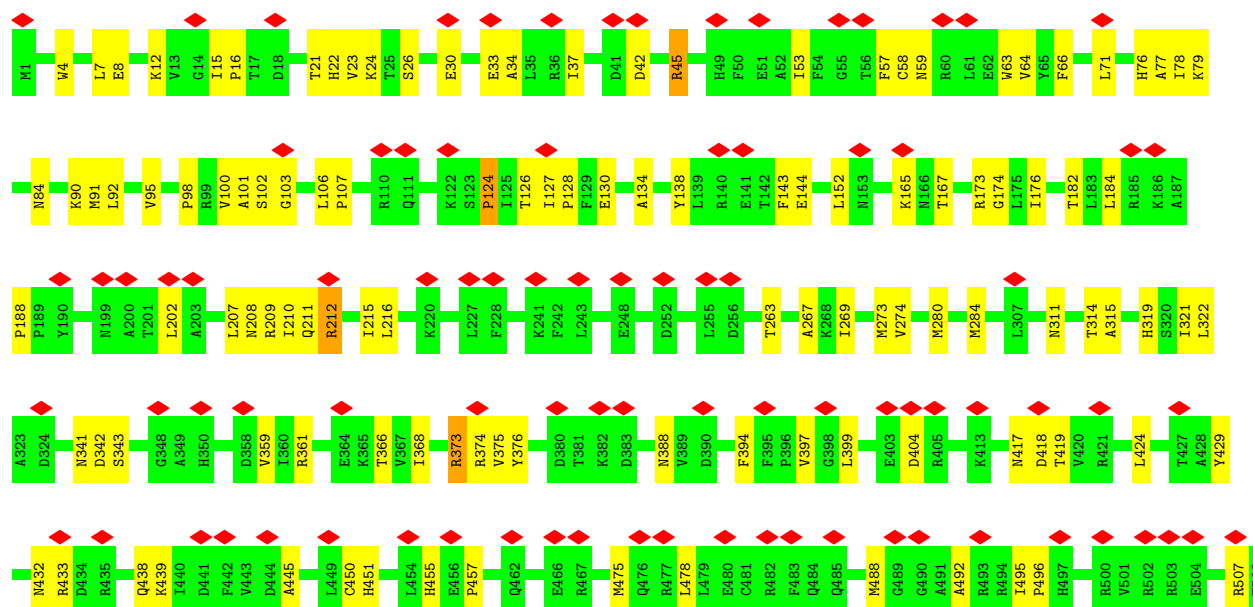


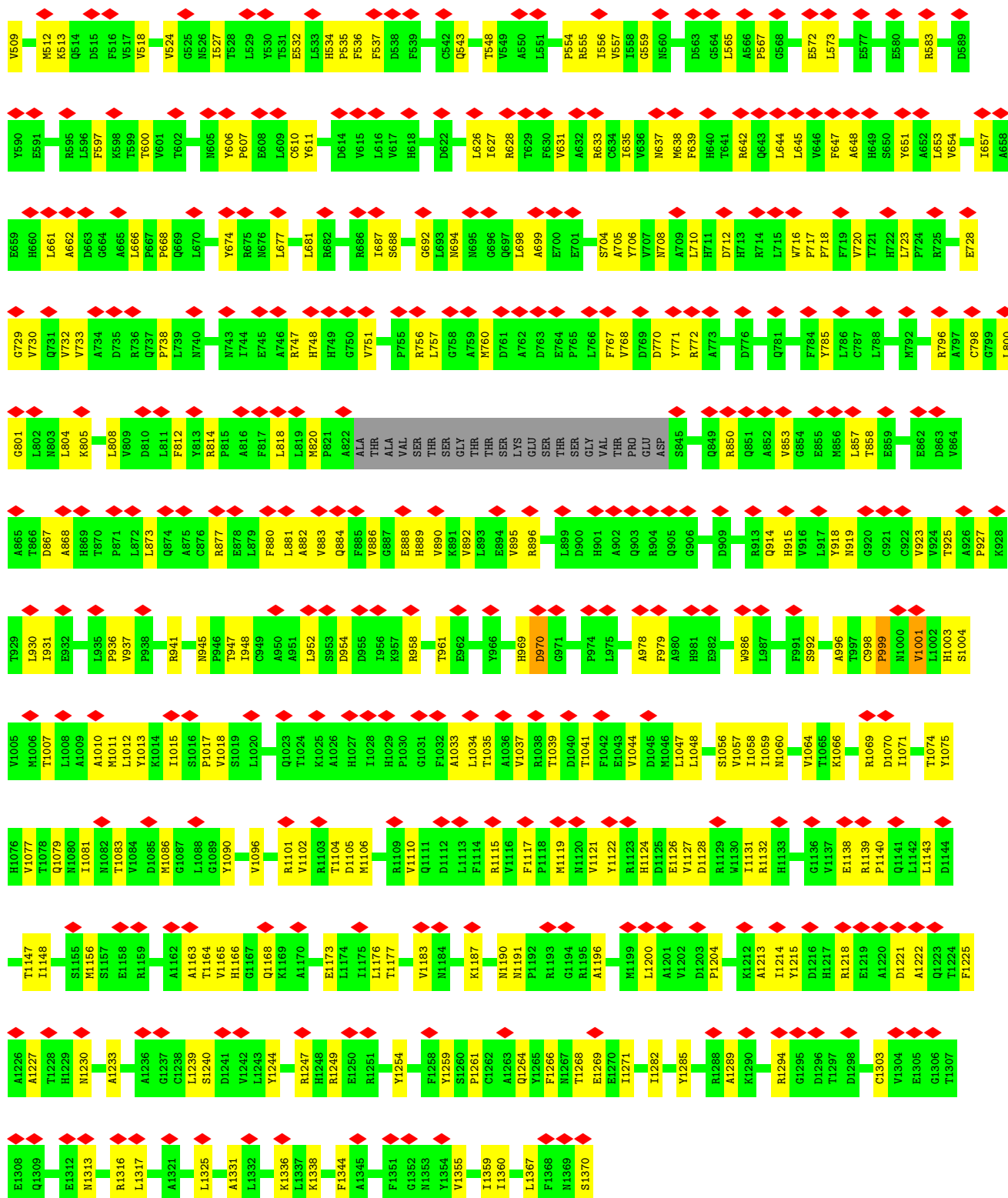
• Molecule 2: Major capsid protein





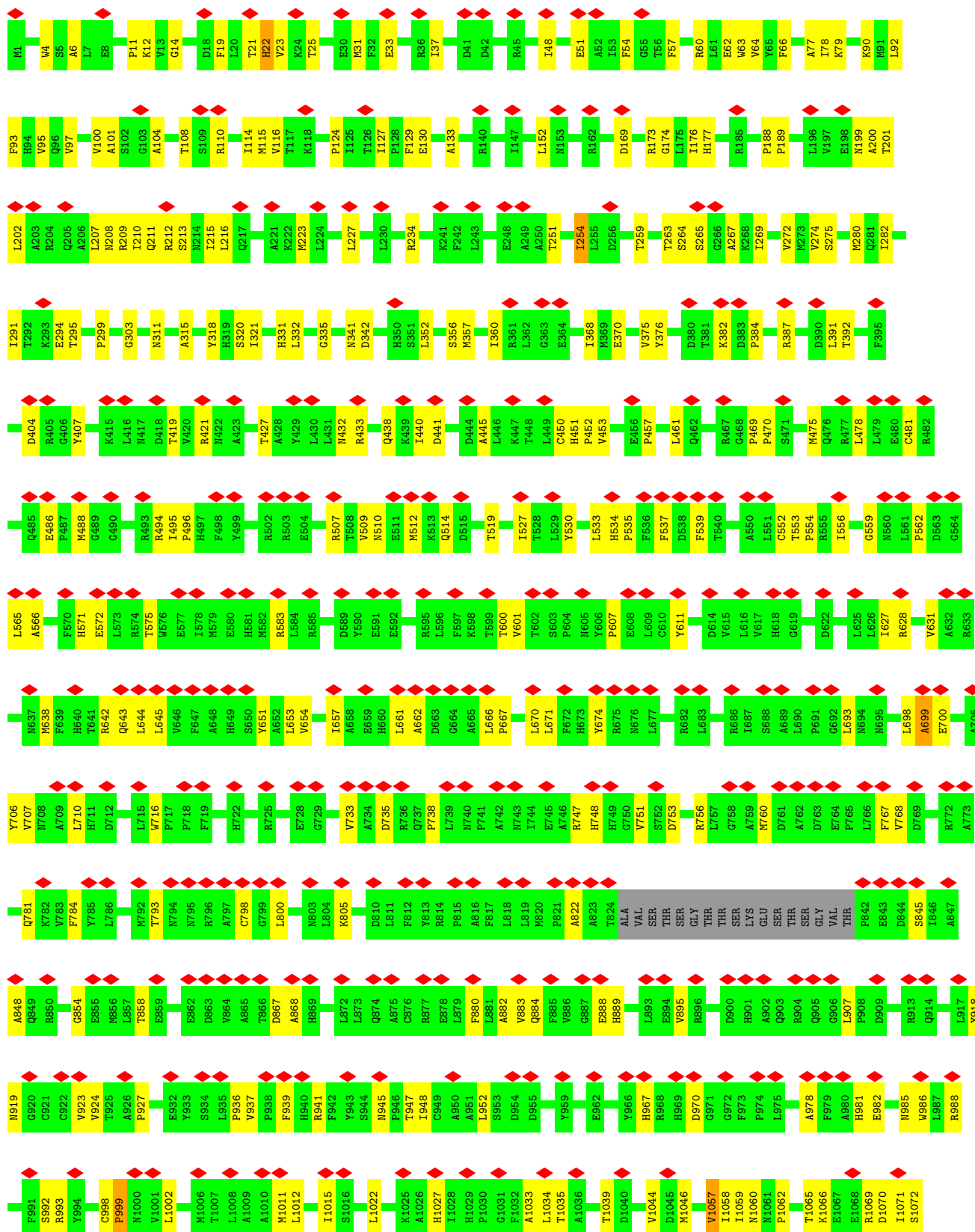
• Molecule 2: Major capsid protein

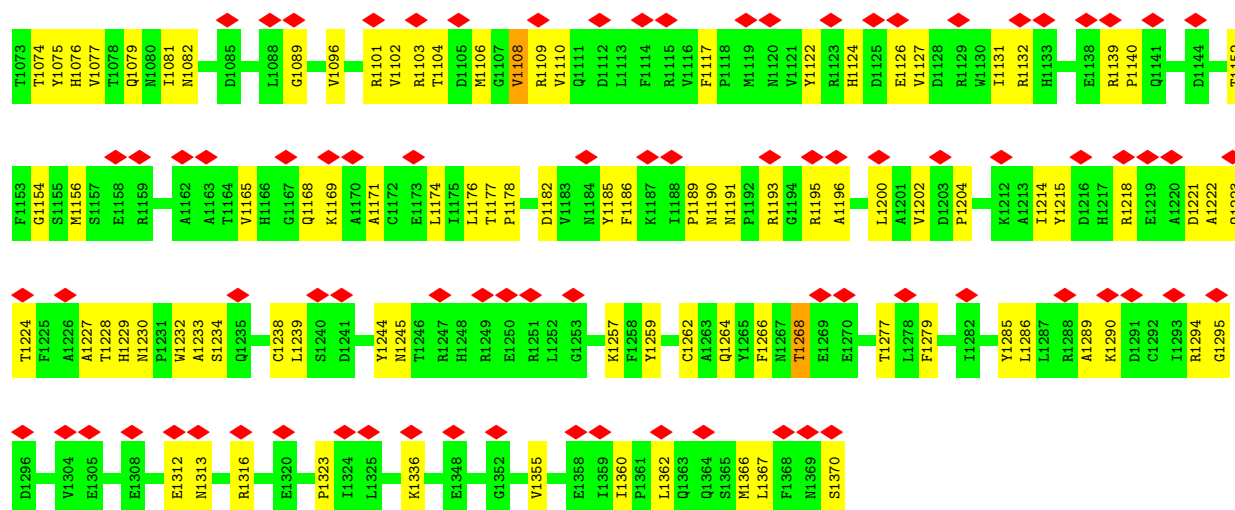




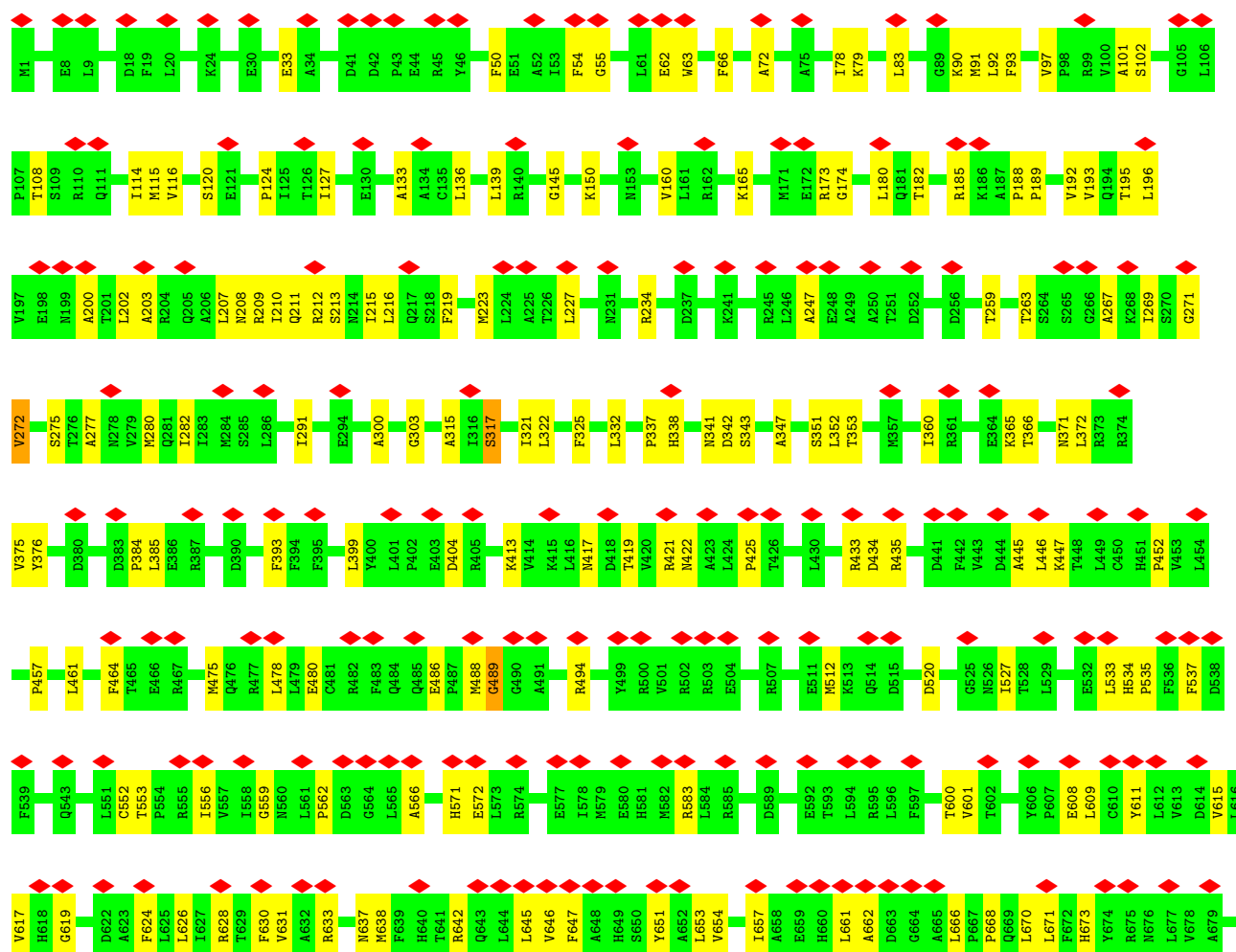
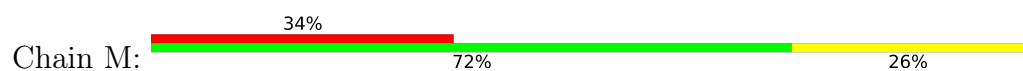
• Molecule 2: Major capsid protein





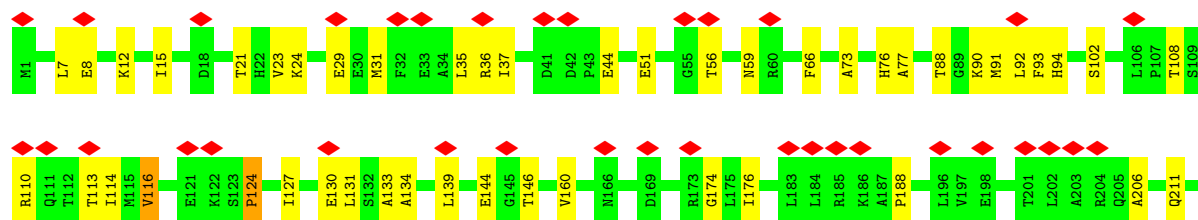
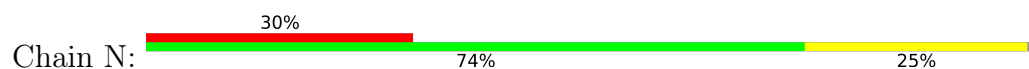


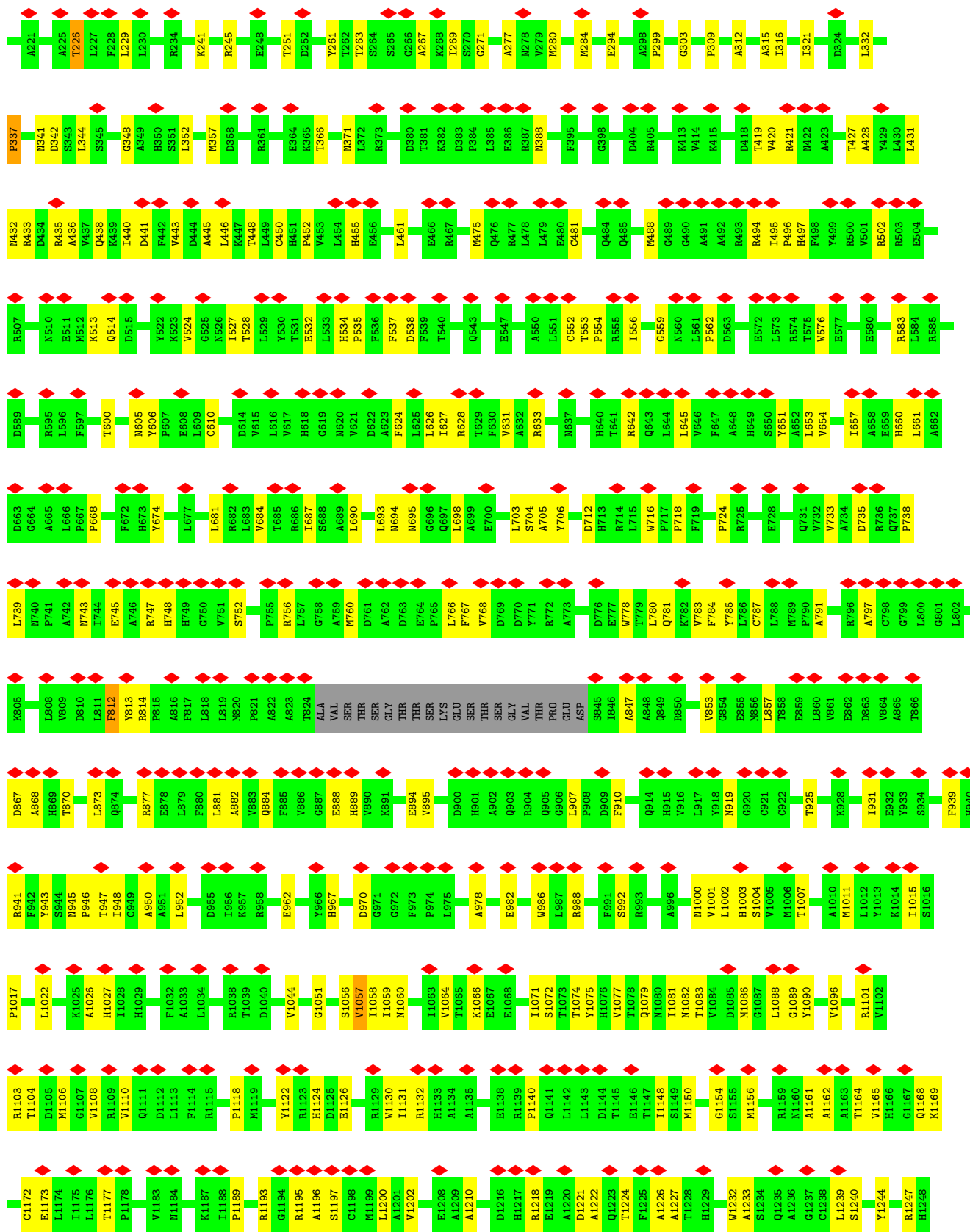
• Molecule 2: Major capsid protein

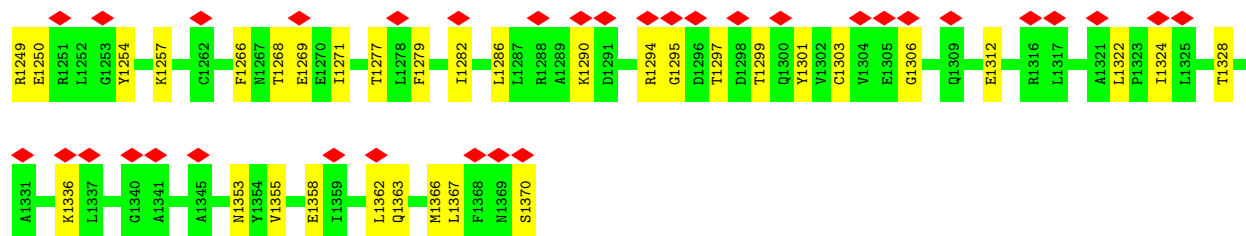




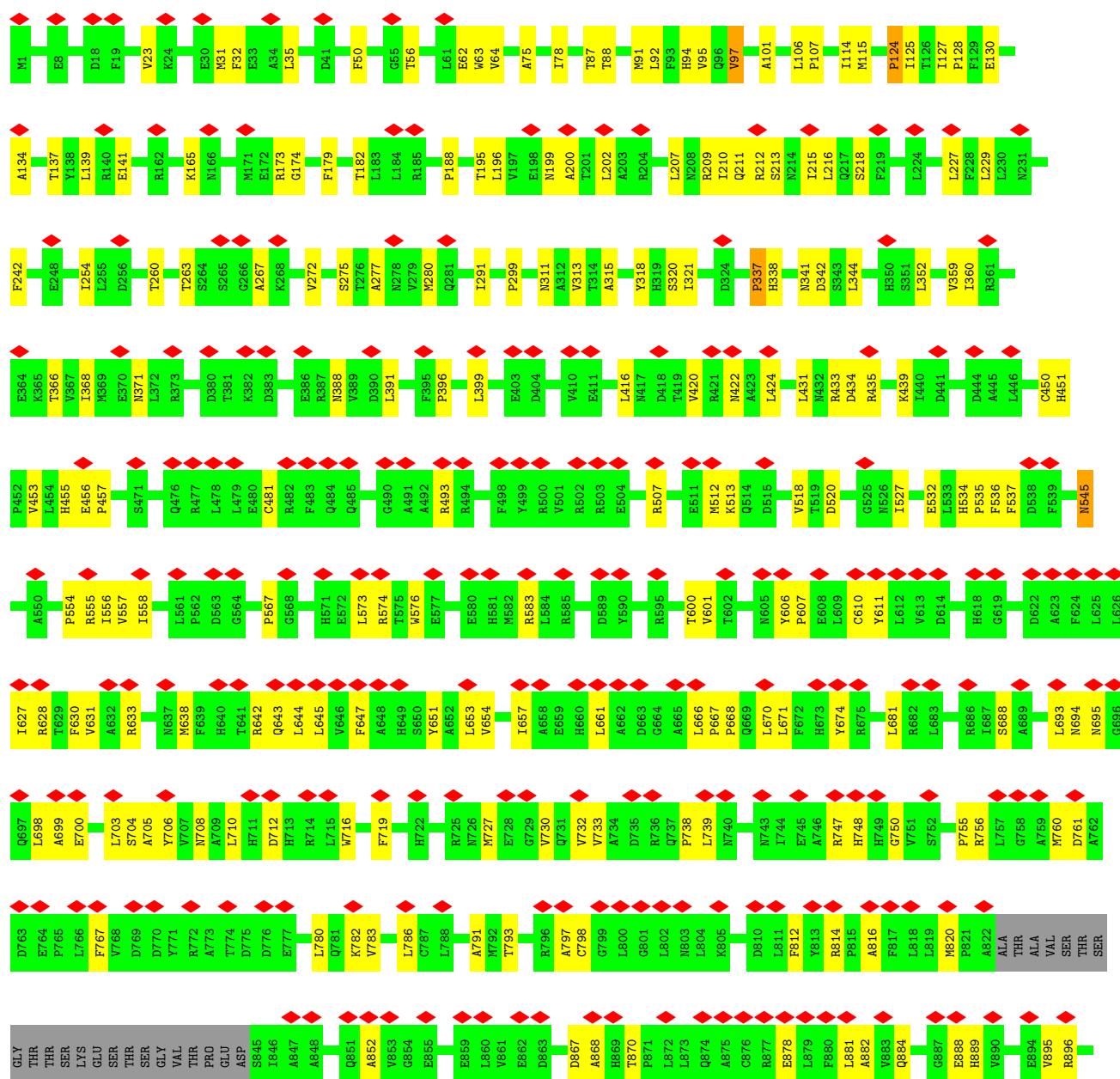
• Molecule 2: Major capsid protein

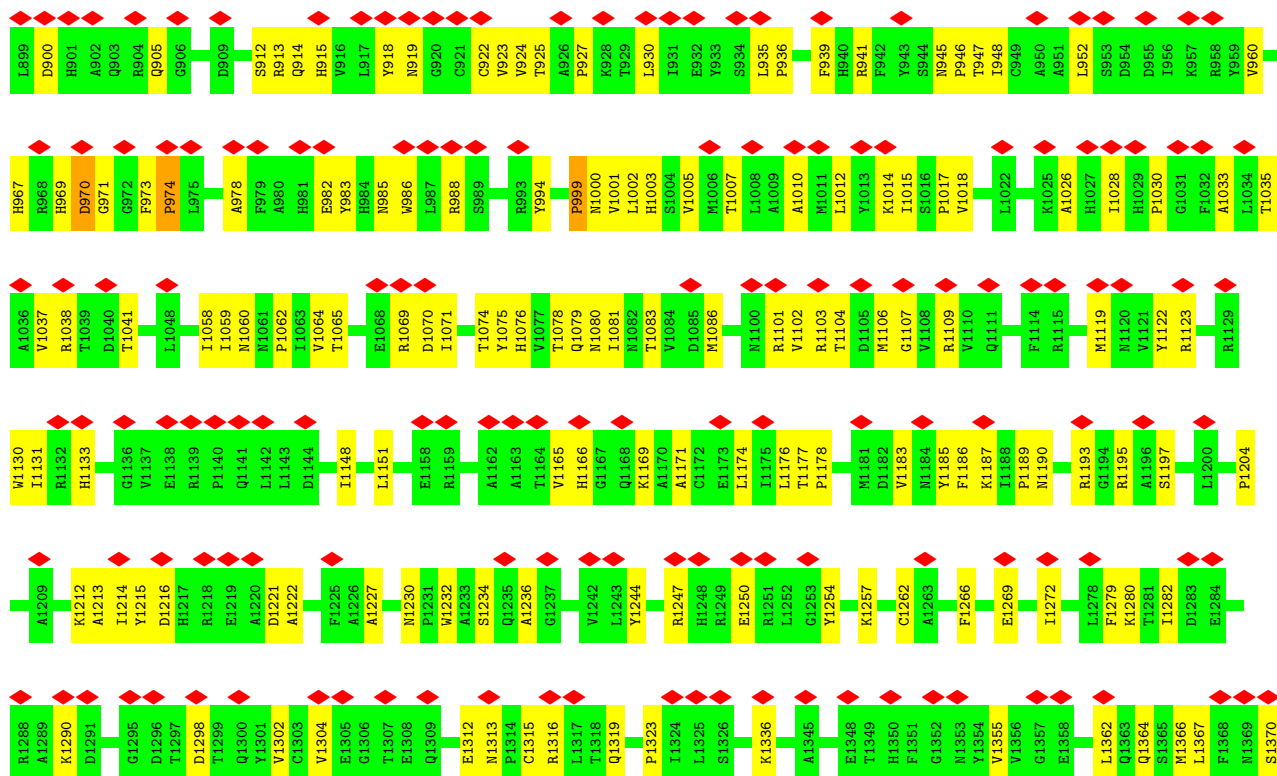




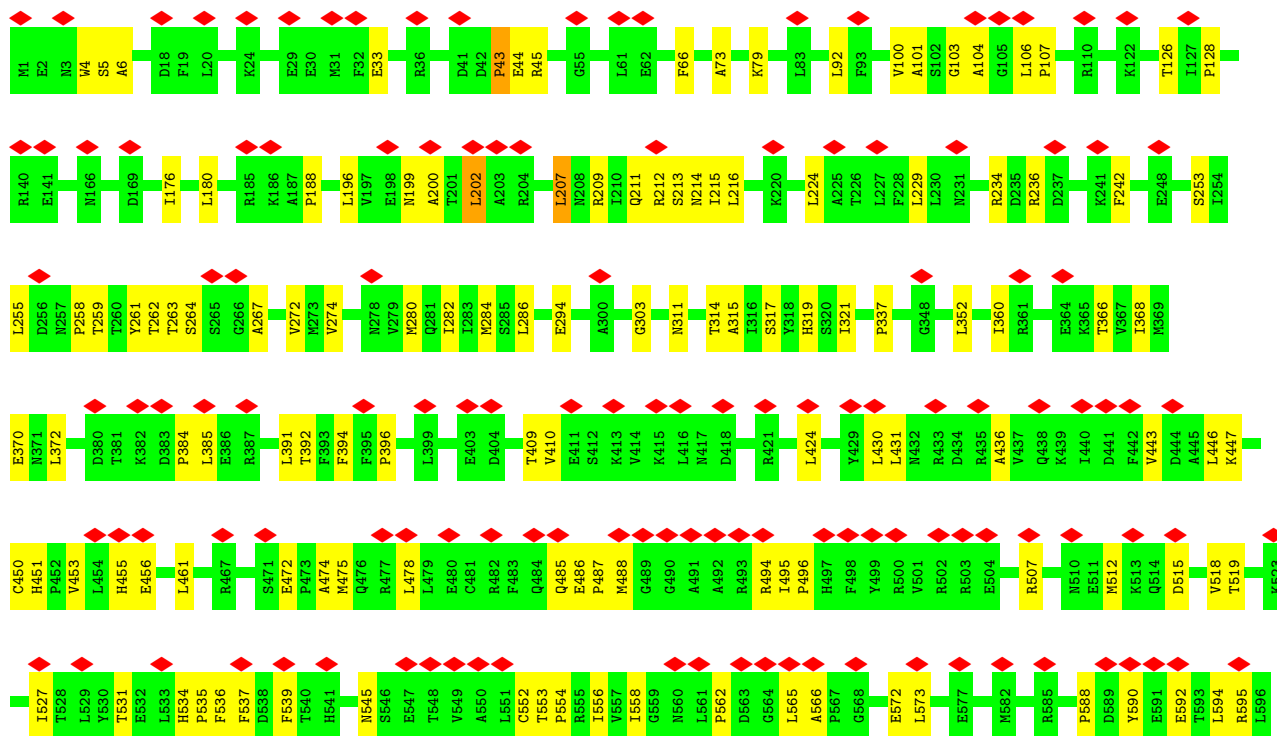


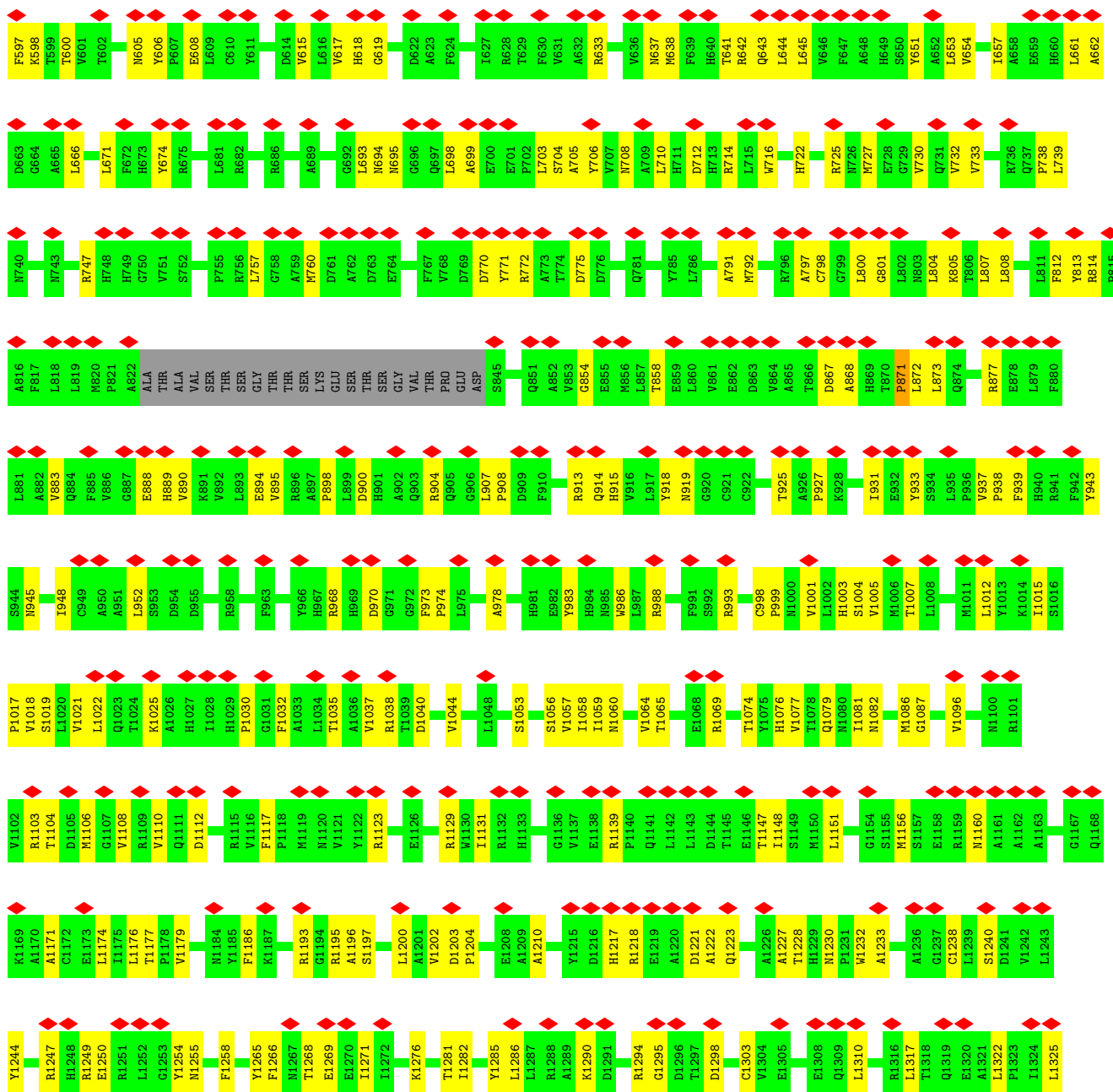
• Molecule 2: Major capsid protein





• Molecule 2: Major capsid protein



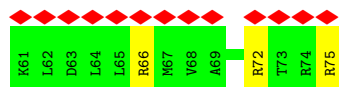


• Molecule 3: Small capsomere-interacting protein

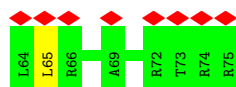
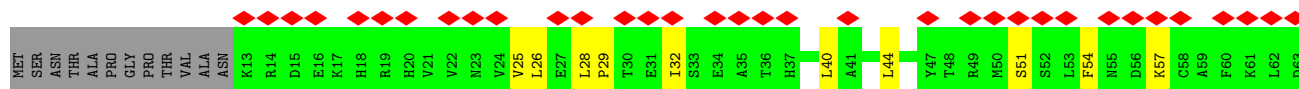




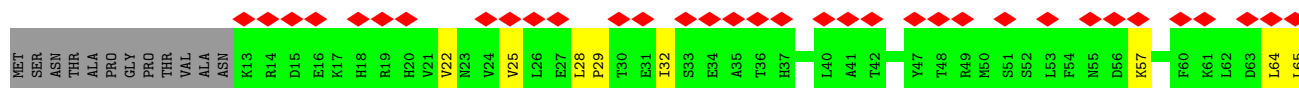
- Molecule 3: Small capsomere-interacting protein



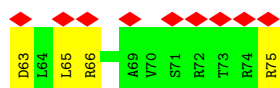
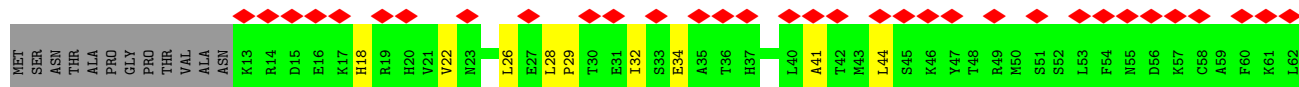
- Molecule 3: Small capsomere-interacting protein



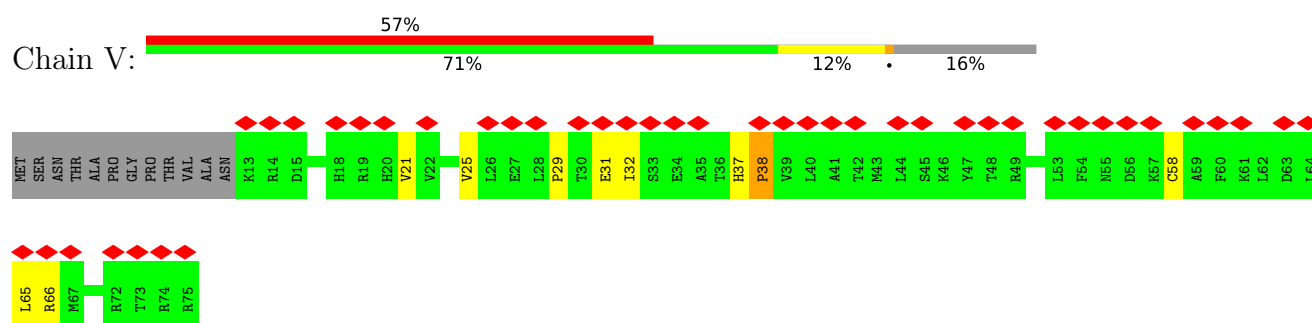
- Molecule 3: Small capsomere-interacting protein



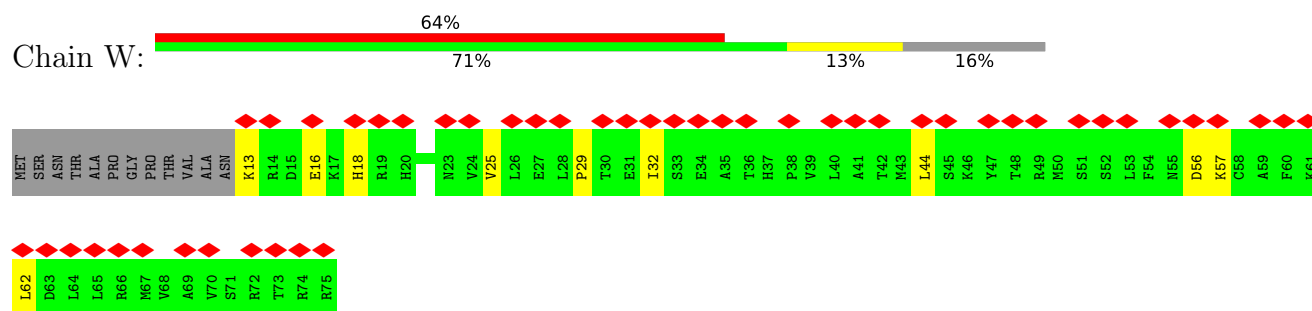
- Molecule 3: Small capsomere-interacting protein



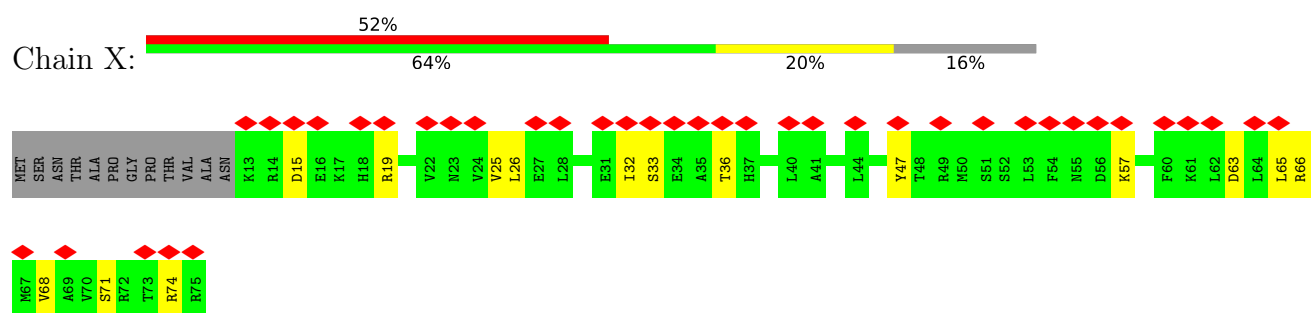
- Molecule 3: Small capsomere-interacting protein



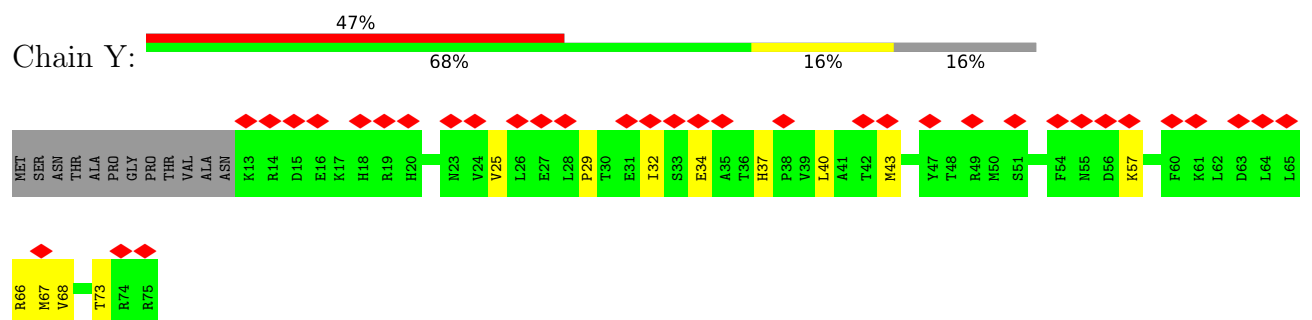
- Molecule 3: Small capsomere-interacting protein



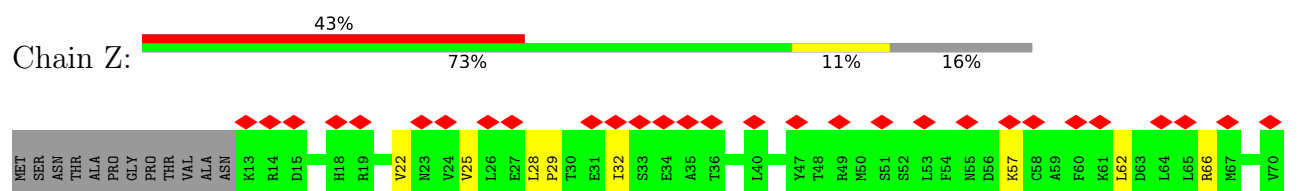
- Molecule 3: Small capsomere-interacting protein



- Molecule 3: Small capsomere-interacting protein

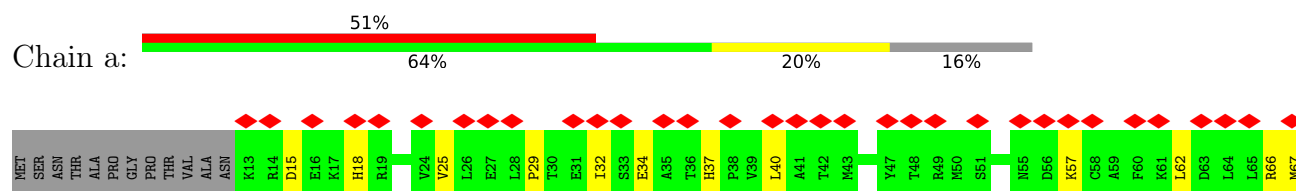


- Molecule 3: Small capsomere-interacting protein

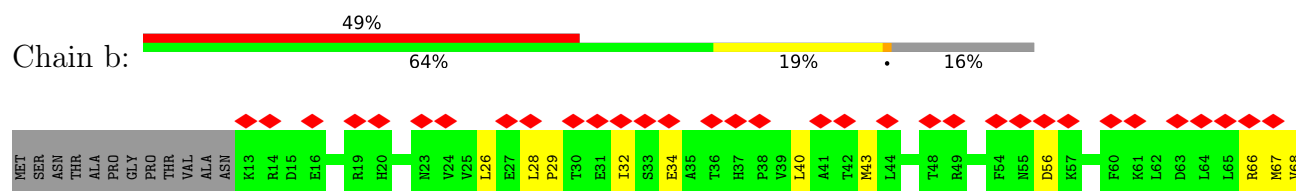




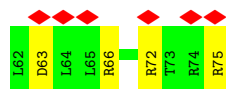
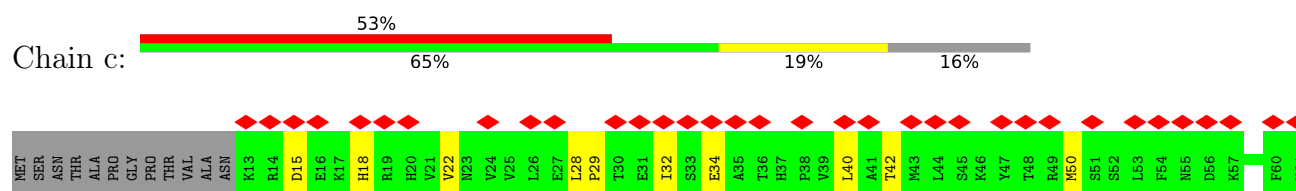
- Molecule 3: Small capsomere-interacting protein



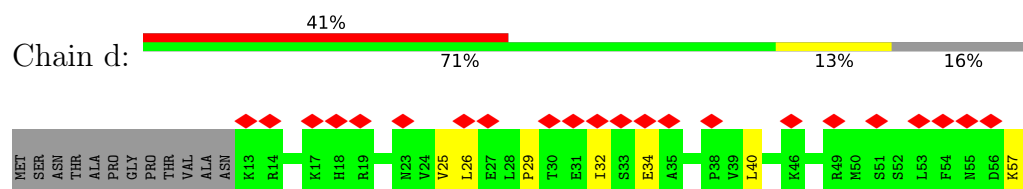
- Molecule 3: Small capsomere-interacting protein



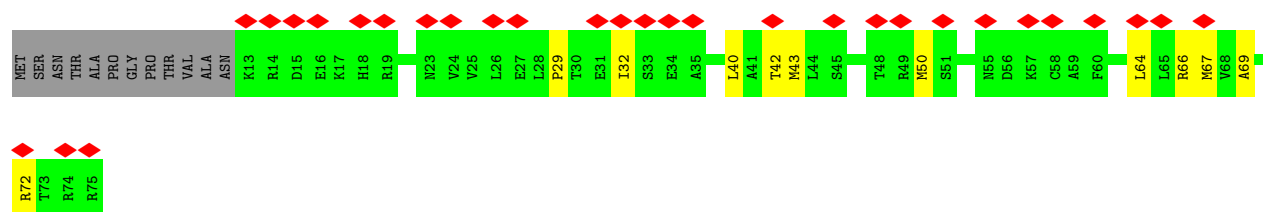
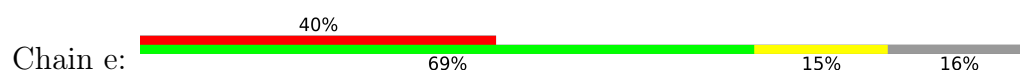
- Molecule 3: Small capsomere-interacting protein



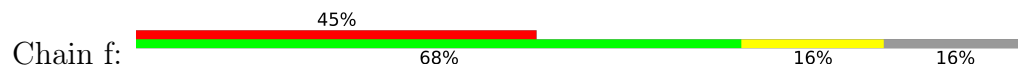
- Molecule 3: Small capsomere-interacting protein



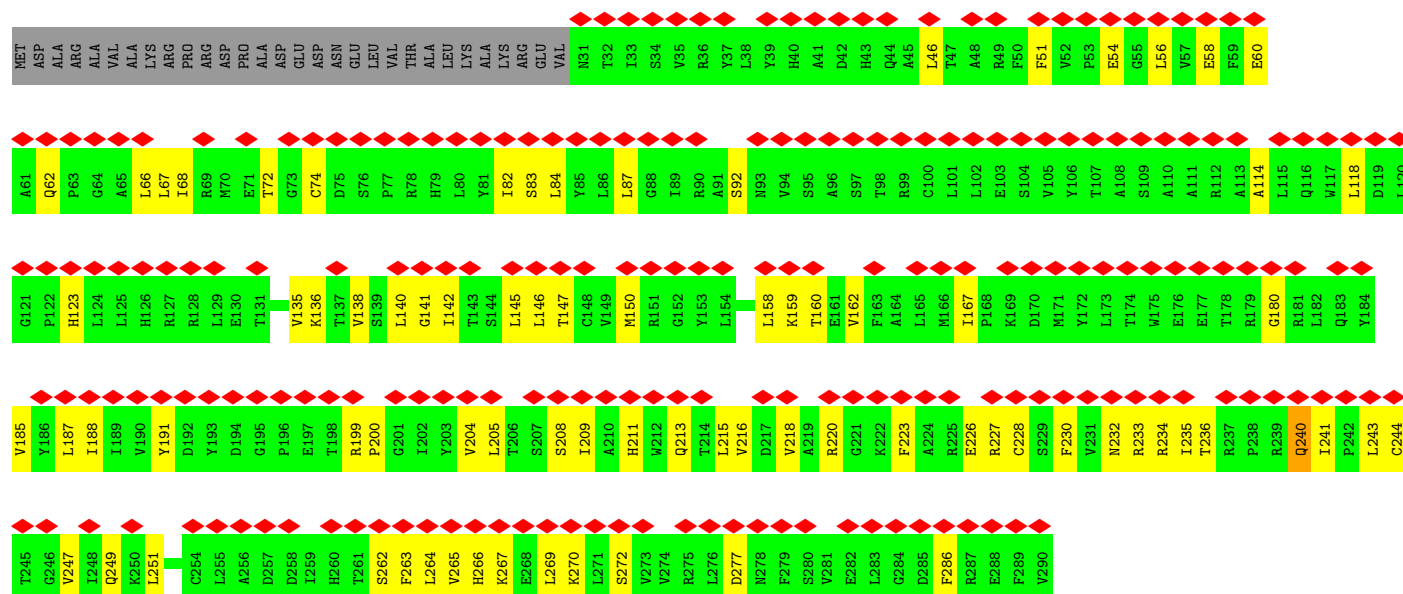
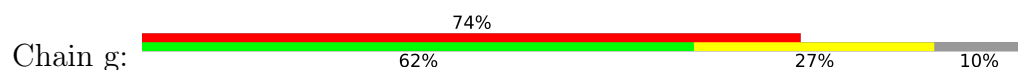
- Molecule 3: Small capsomere-interacting protein



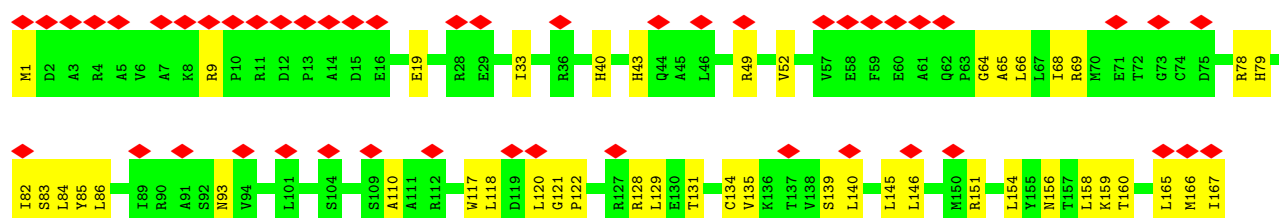
• Molecule 3: Small capsomere-interacting protein

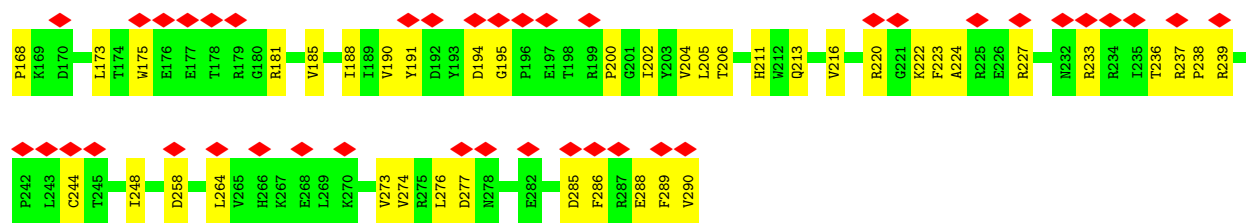


• Molecule 4: Triplex capsid protein 1

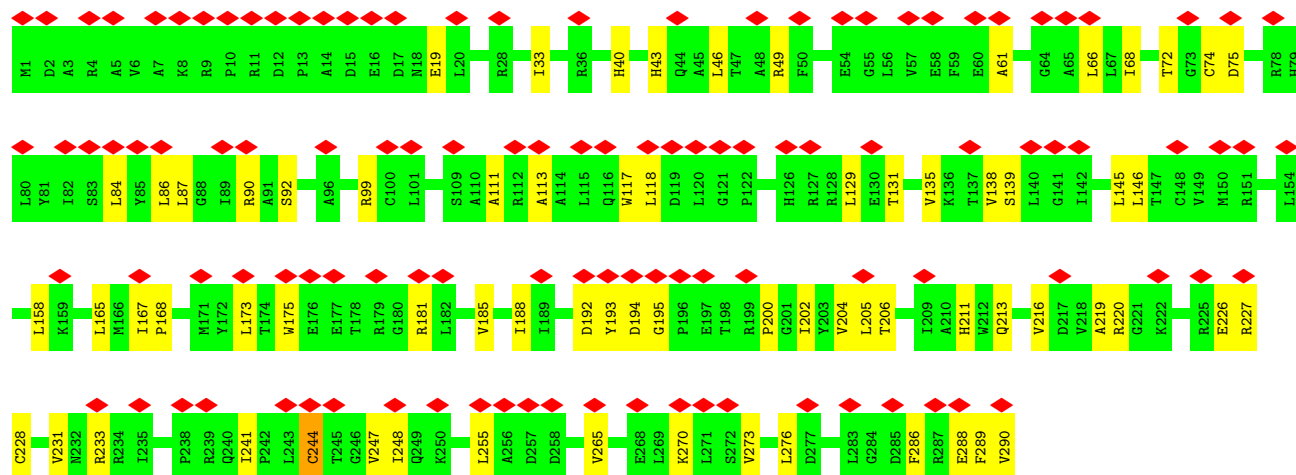
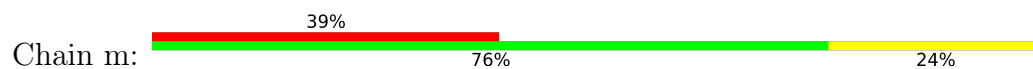


• Molecule 4: Triplex capsid protein 1

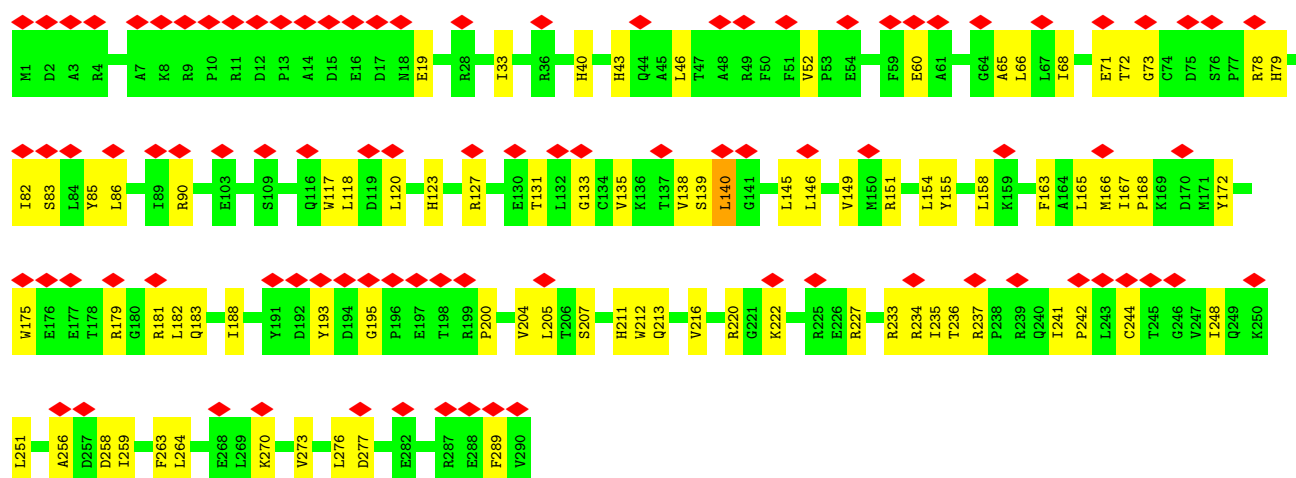




• Molecule 4: Triplex capsid protein 1

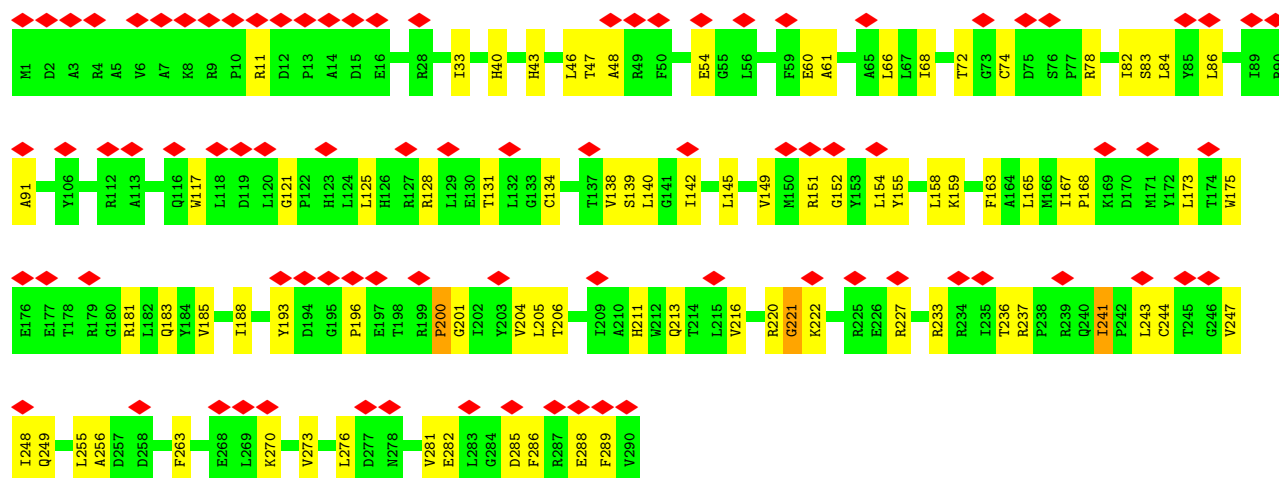


• Molecule 4: Triplex capsid protein 1

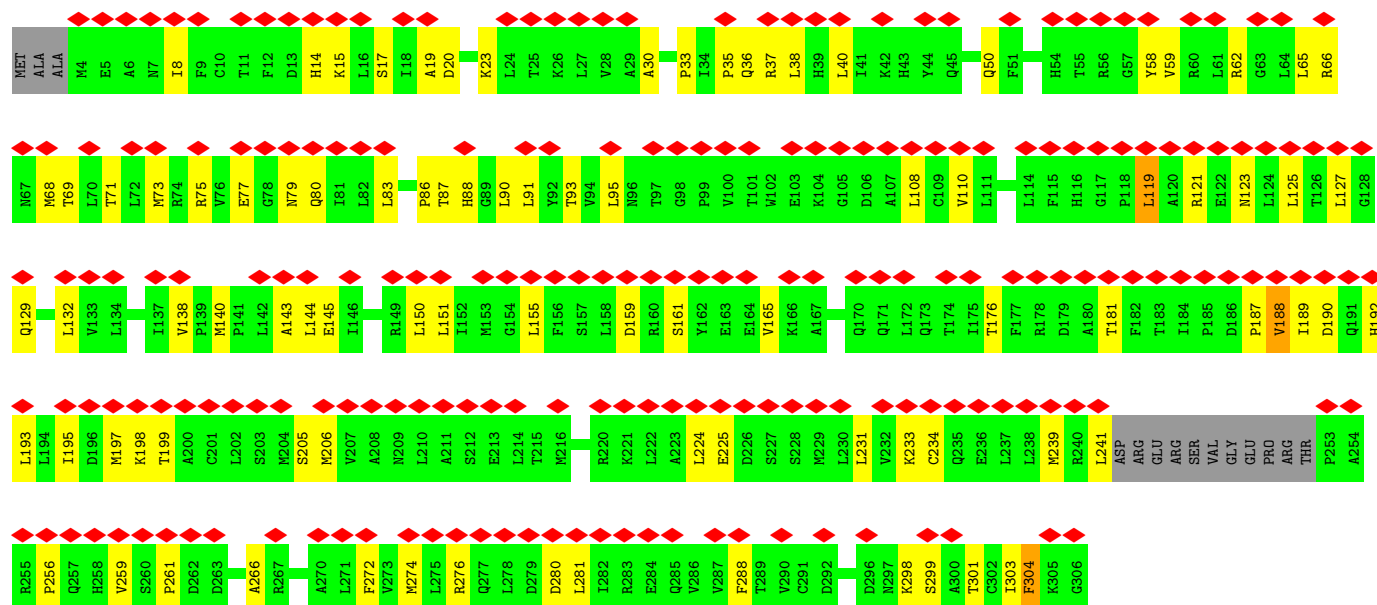


• Molecule 4: Triplex capsid protein 1

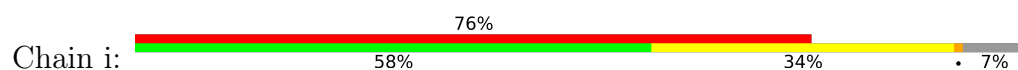


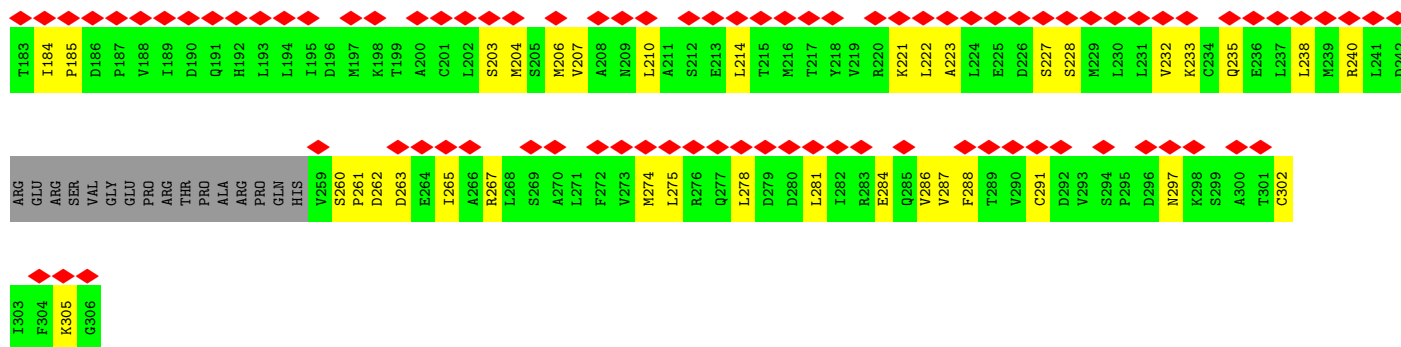


• Molecule 5: Triplex capsid protein 2

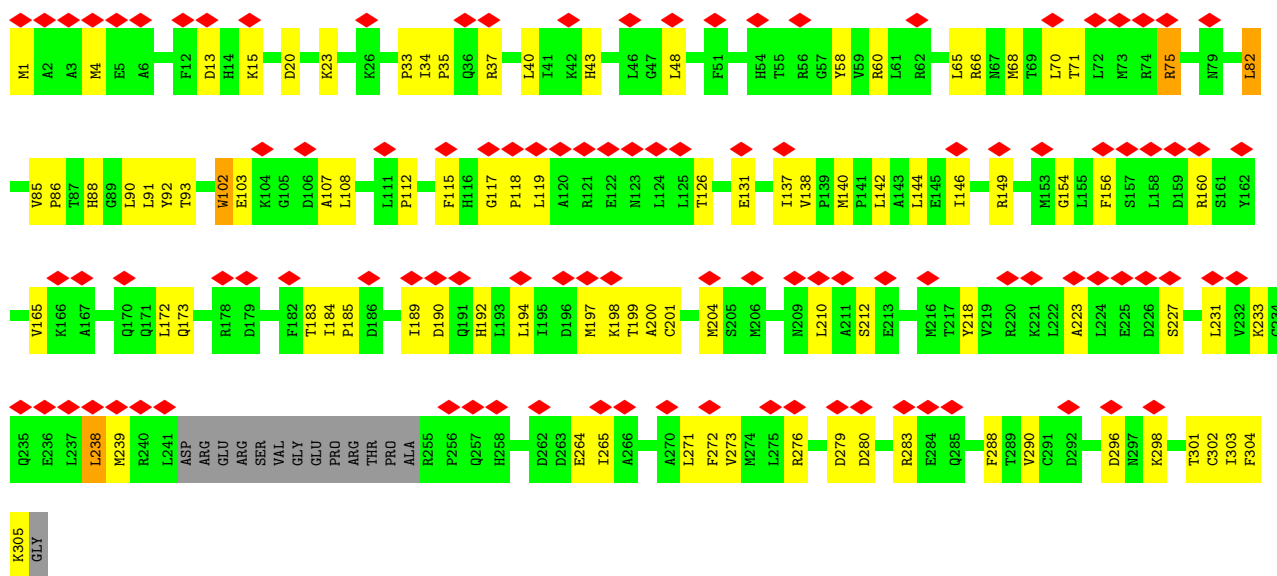


• Molecule 5: Triplex capsid protein 2

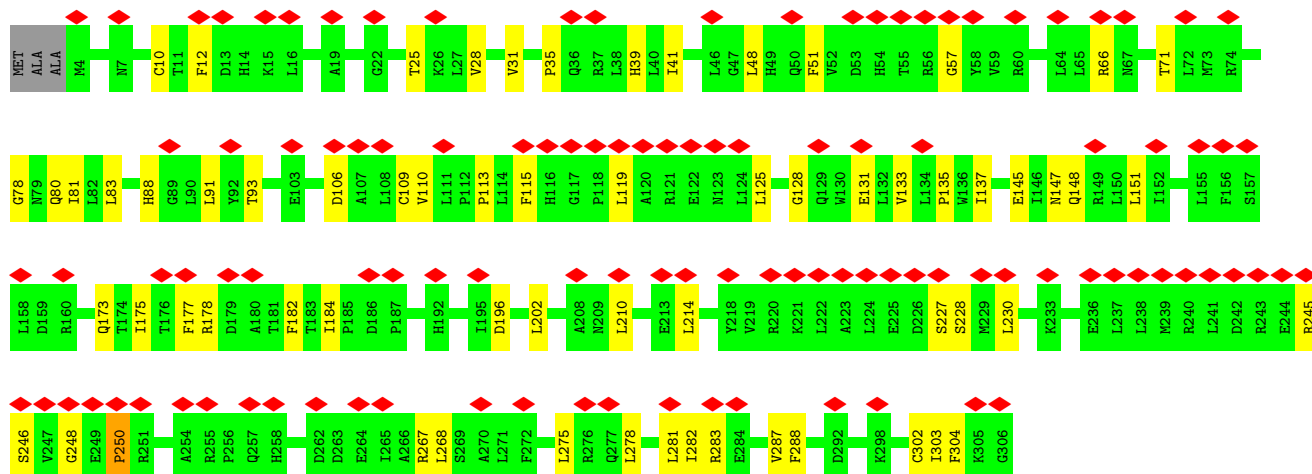
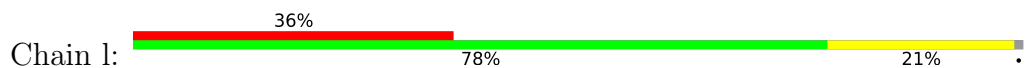




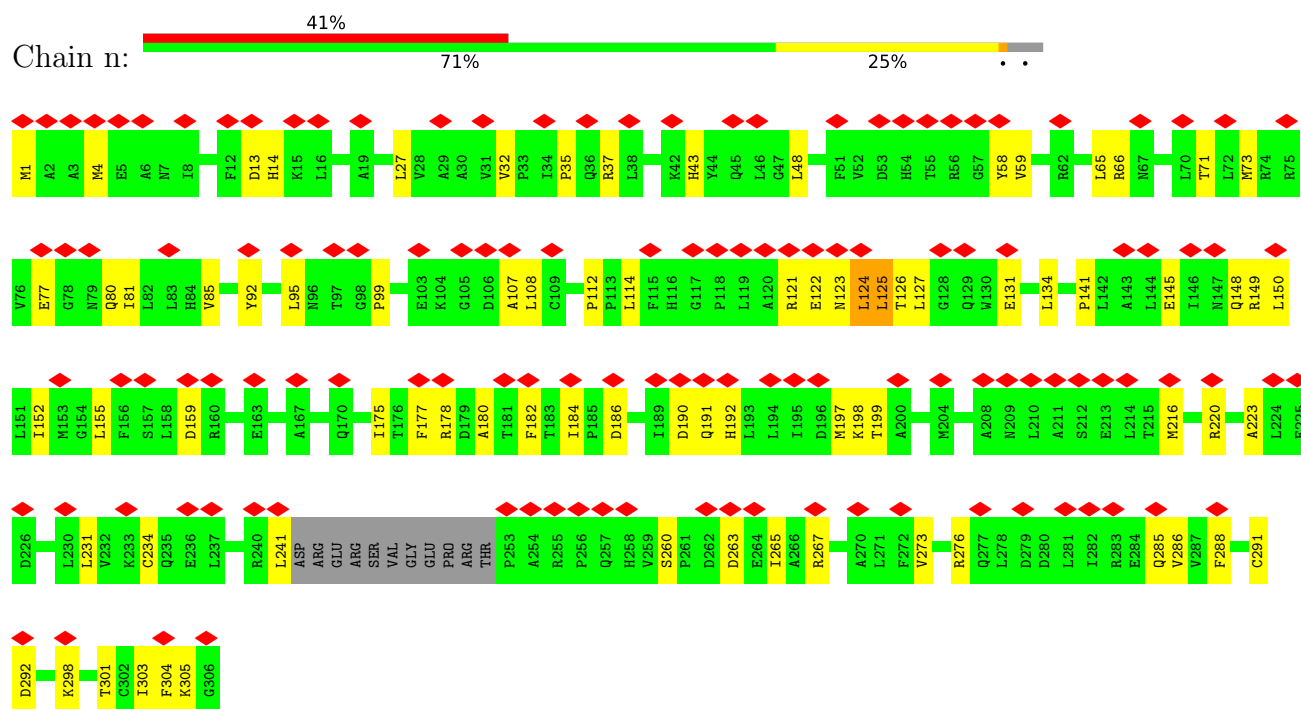
• Molecule 5: Triplex capsid protein 2



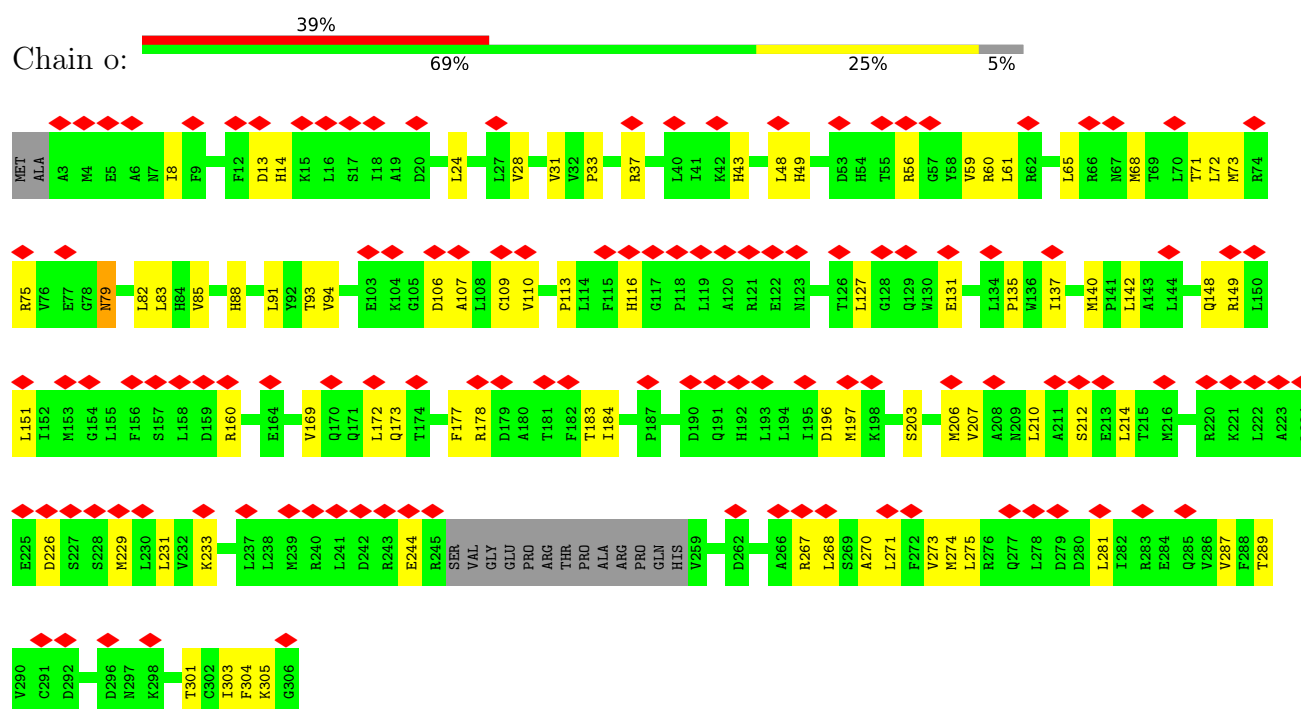
• Molecule 5: Triplex capsid protein 2



- Molecule 5: Triplex capsid protein 2

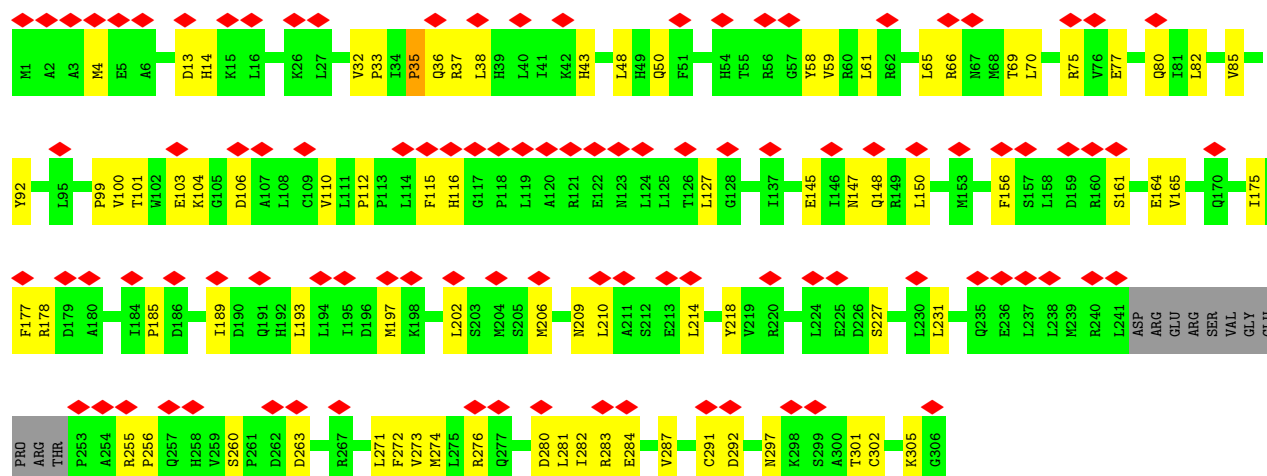


- Molecule 5: Triplex capsid protein 2

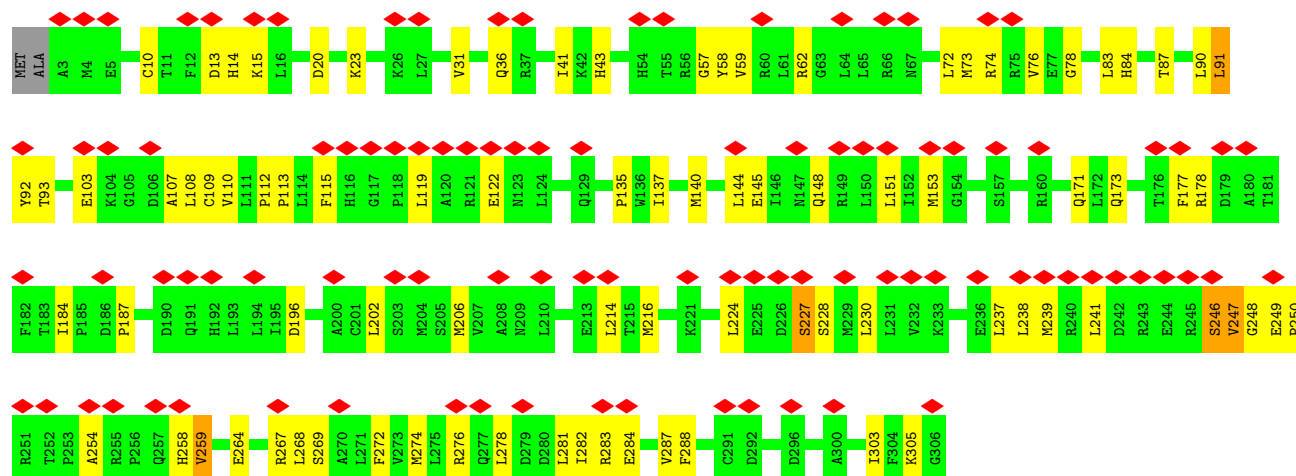


- Molecule 5: Triplex capsid protein 2

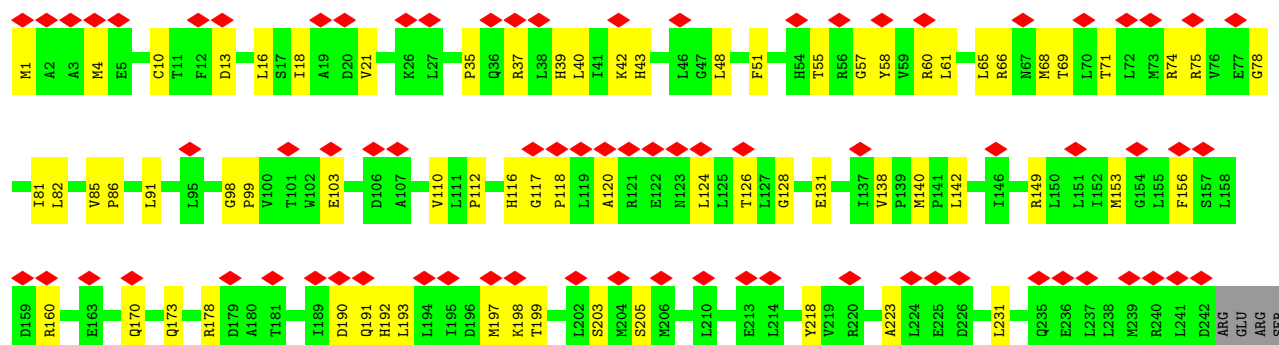




• Molecule 5: Triplex capsid protein 2

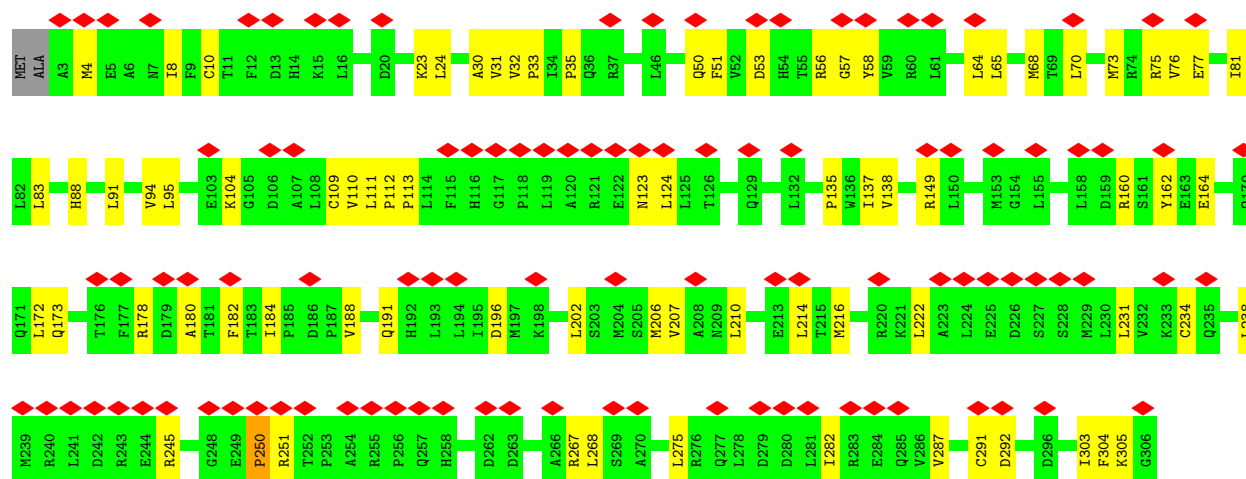
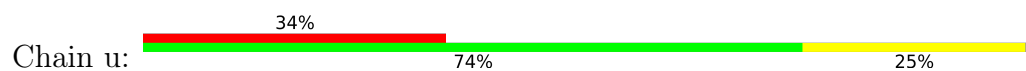


• Molecule 5: Triplex capsid protein 2





• Molecule 5: Triplex capsid protein 2



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	39600	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2.7	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.203	Depositor
Minimum map value	-0.123	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.018	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	1352.4, 1352.4, 1352.4	wwPDB
Map dimensions	840, 840, 840	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.61, 1.61, 1.61	Depositor

5 Model quality

5.1 Standard geometry

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	0	0.11	0/2366	0.31	0/3192
1	1	0.11	0/2366	0.31	0/3192
1	2	0.11	0/2366	0.32	0/3192
1	3	0.10	0/2366	0.30	0/3192
1	4	0.11	0/2366	0.31	0/3192
1	5	0.11	0/2366	0.30	0/3192
1	6	0.11	0/2366	0.30	0/3192
1	7	0.11	0/2366	0.31	0/3192
1	8	0.11	0/2366	0.30	0/3192
1	9	0.10	0/2366	0.30	0/3192
1	v	0.11	0/2366	0.32	0/3192
1	w	0.11	0/2366	0.31	0/3192
1	x	0.12	0/2366	0.32	0/3192
1	y	0.11	0/2366	0.31	0/3192
1	z	0.10	0/2366	0.30	0/3192
2	A	0.13	0/10780	0.36	1/14685 (0.0%)
2	B	0.13	0/10824	0.36	0/14743
2	C	0.14	0/10942	0.35	0/14906
2	D	0.14	0/10926	0.36	1/14884 (0.0%)
2	E	0.14	0/10932	0.37	1/14892 (0.0%)
2	F	0.14	0/10949	0.34	0/14916
2	G	0.13	0/10962	0.35	0/14933
2	H	0.14	0/10967	0.37	1/14940 (0.0%)
2	I	0.14	0/10932	0.35	0/14892
2	J	0.13	0/10835	0.34	0/14757
2	K	0.14	0/10937	0.37	2/14899 (0.0%)
2	L	0.13	0/10974	0.35	0/14950
2	M	0.14	0/10974	0.36	1/14950 (0.0%)
2	N	0.14	0/10949	0.35	1/14916 (0.0%)
2	O	0.14	0/10937	0.35	1/14899 (0.0%)
2	P	0.13	0/10937	0.34	0/14899
3	Q	0.11	0/520	0.31	0/697
3	R	0.11	0/520	0.31	0/697
3	S	0.12	0/520	0.33	0/697

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	T	0.15	0/520	0.32	0/697
3	U	0.11	0/520	0.30	0/697
3	V	0.11	0/520	0.32	0/697
3	W	0.10	0/520	0.31	0/697
3	X	0.11	0/520	0.31	0/697
3	Y	0.10	0/520	0.29	0/697
3	Z	0.11	0/520	0.29	0/697
3	a	0.10	0/520	0.30	0/697
3	b	0.11	0/520	0.32	0/697
3	c	0.10	0/520	0.31	0/697
3	d	0.10	0/520	0.31	0/697
3	e	0.11	0/520	0.33	0/697
3	f	0.10	0/520	0.30	0/697
4	g	0.12	0/2138	0.34	0/2903
4	j	0.13	0/2374	0.36	0/3221
4	m	0.13	0/2374	0.35	0/3221
4	p	0.13	0/2374	0.36	0/3221
4	s	0.13	0/2374	0.35	0/3221
5	h	0.15	0/2361	0.37	0/3206
5	i	0.14	0/2300	0.38	1/3124 (0.0%)
5	k	0.17	0/2361	0.35	0/3207
5	l	0.12	0/2453	0.34	0/3332
5	n	0.13	0/2379	0.36	0/3230
5	o	0.12	0/2353	0.34	0/3193
5	q	0.14	0/2379	0.35	0/3230
5	r	0.14	0/2458	0.35	0/3339
5	t	0.16	0/2387	0.37	0/3241
5	u	0.13	0/2458	0.36	0/3339
All	All	0.13	0/254090	0.35	10/345321 (0.0%)

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	205	GLN	N-CA-C	-7.40	106.18	114.62
2	K	373	ARG	N-CA-C	-6.91	106.75	114.62
2	N	1015	ILE	N-CA-C	-6.82	105.84	111.91
2	K	699	ALA	CB-CA-C	-6.68	108.86	116.54
2	H	1097	ALA	CB-CA-C	-6.55	106.97	116.54
2	M	1015	ILE	N-CA-C	-6.50	106.12	111.91
2	D	533	LEU	N-CA-C	-6.29	107.45	114.62
2	E	265	SER	CB-CA-C	-5.60	108.50	115.89

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	97	VAL	N-CA-C	5.08	113.00	108.63
5	i	98	GLY	N-CA-C	5.06	122.66	112.34

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	0	2328	0	2363	21	0
1	1	2328	0	2363	20	0
1	2	2328	0	2363	23	0
1	3	2328	0	2363	33	0
1	4	2328	0	2363	30	0
1	5	2328	0	2363	28	0
1	6	2328	0	2363	26	0
1	7	2328	0	2363	30	0
1	8	2328	0	2363	32	0
1	9	2328	0	2363	24	0
1	v	2328	0	2363	35	0
1	w	2328	0	2363	27	0
1	x	2328	0	2363	27	0
1	y	2328	0	2363	28	0
1	z	2328	0	2363	23	0
2	A	10527	0	10474	292	0
2	B	10574	0	10522	316	0
2	C	10686	0	10628	317	0
2	D	10670	0	10613	339	0
2	E	10676	0	10618	287	0
2	F	10693	0	10635	270	0
2	G	10705	0	10641	280	0
2	H	10710	0	10646	271	0
2	I	10676	0	10618	244	0
2	J	10581	0	10518	258	0
2	K	10681	0	10623	288	0
2	L	10717	0	10653	279	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M	10717	0	10653	272	0
2	N	10693	0	10635	240	0
2	O	10681	0	10623	262	0
2	P	10681	0	10623	231	0
3	Q	513	0	539	16	0
3	R	513	0	539	9	0
3	S	513	0	539	7	0
3	T	513	0	539	10	0
3	U	513	0	539	11	0
3	V	513	0	539	9	0
3	W	513	0	539	6	0
3	X	513	0	539	11	0
3	Y	513	0	539	8	0
3	Z	513	0	539	7	0
3	a	513	0	539	13	0
3	b	513	0	539	13	0
3	c	513	0	539	11	0
3	d	513	0	539	9	0
3	e	513	0	539	10	0
3	f	513	0	539	7	0
4	g	2091	0	2120	60	0
4	j	2325	0	2363	61	0
4	m	2325	0	2363	52	0
4	p	2325	0	2363	65	0
4	s	2325	0	2363	62	0
5	h	2316	0	2409	60	0
5	i	2258	0	2350	73	0
5	k	2317	0	2415	66	0
5	l	2406	0	2495	47	0
5	n	2334	0	2431	55	0
5	o	2311	0	2402	55	0
5	q	2334	0	2431	65	0
5	r	2411	0	2500	61	0
5	t	2342	0	2435	63	0
5	u	2411	0	2500	52	0
All	All	248627	0	249732	5271	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 11.

All (5271) 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)
2:L:512:MET:CE	2:L:527:ILE:HD11	1.81	1.10
2:L:512:MET:HE1	2:L:527:ILE:HD11	1.41	1.01
2:A:475:MET:O	2:A:478:LEU:HG	1.64	0.95
5:q:4:MET:HB3	5:q:37:ARG:HE	1.31	0.93
2:A:1361:PRO:HB2	2:A:1364:GLN:HB3	1.49	0.92
2:D:478:LEU:HD13	2:D:512:MET:SD	2.12	0.90
2:B:1035:THR:HG23	2:B:1176:LEU:HD11	1.55	0.88
2:H:1070:ASP:HB2	5:r:93:THR:HG23	1.55	0.88
2:F:606:TYR:HB3	2:F:925:THR:HG21	1.57	0.85
2:F:435:ARG:HG3	2:F:1367:LEU:HD11	1.57	0.85
2:B:702:PRO:HB3	2:C:965:HIS:HB3	1.58	0.85
2:L:174:GLY:HA3	2:M:101:ALA:HB3	1.58	0.84
2:I:174:GLY:HA3	2:J:101:ALA:HB3	1.60	0.84
2:A:234:ARG:HH12	2:A:1369:ASN:HA	1.43	0.84
2:C:174:GLY:HA3	2:D:101:ALA:HB3	1.60	0.84
2:L:512:MET:HE2	2:L:527:ILE:HD11	1.60	0.83
2:N:941:ARG:HH12	2:N:982:GLU:HG3	1.44	0.83
4:s:121:GLY:HA3	4:s:128:ARG:HH22	1.45	0.82
2:H:627:ILE:HD11	2:H:882:ALA:HB2	1.60	0.82
5:o:56:ARG:HE	5:o:60:ARG:HD2	1.44	0.82
2:D:174:GLY:HA3	2:E:101:ALA:HB3	1.60	0.82
2:N:888:GLU:O	2:N:919:ASN:ND2	2.14	0.81
2:E:709:ALA:HB2	2:E:1014:LYS:HD3	1.62	0.80
2:F:578:ILE:HG23	2:F:689:ALA:HB2	1.64	0.80
2:K:507:ARG:HD2	2:K:512:MET:HE3	1.63	0.80
2:K:1101:ARG:HH21	2:L:202:LEU:HD13	1.46	0.80
2:A:478:LEU:HD23	2:A:527:ILE:HD12	1.62	0.80
2:B:127:ILE:HD11	2:C:101:ALA:HA	1.64	0.79
2:F:174:GLY:HA3	2:G:101:ALA:HB3	1.64	0.79
2:F:212:ARG:HH22	2:F:1204:PRO:HD3	1.47	0.79
2:L:941:ARG:HH12	2:L:982:GLU:HG3	1.47	0.79
2:B:269:ILE:HG22	2:B:271:GLY:H	1.46	0.79
4:s:175:TRP:HE1	4:s:205:LEU:HD13	1.46	0.79
5:o:91:LEU:HA	5:o:303:ILE:HA	1.63	0.79
2:B:488:MET:HE1	2:B:978:ALA:HB1	1.63	0.79
2:J:174:GLY:HA3	2:K:101:ALA:HB3	1.65	0.78
4:p:181:ARG:NH1	5:q:4:MET:SD	2.55	0.78
2:O:212:ARG:HH22	2:O:1204:PRO:HD3	1.48	0.78
2:B:446:LEU:HD11	2:B:1021:VAL:HG22	1.63	0.78
2:N:693:LEU:HD11	2:N:1026:ALA:HB2	1.65	0.78
2:C:1057:VAL:HG12	2:C:1083:THR:HG22	1.66	0.78
2:J:688:SER:HB3	2:J:708:ASN:HD22	1.49	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1191:ASN:ND2	2:D:1195:ARG:O	2.16	0.78
5:r:62:ARG:HH22	5:r:284:GLU:HG3	1.48	0.78
2:K:174:GLY:HA3	2:L:101:ALA:HB3	1.65	0.77
2:F:812:PHE:HB2	3:V:65:LEU:HD21	1.66	0.77
2:H:101:ALA:HB3	2:M:174:GLY:HA3	1.67	0.77
2:B:533:LEU:HD22	2:B:1235:GLN:HG2	1.66	0.77
5:i:214:LEU:HD11	5:i:267:ARG:HH11	1.49	0.77
2:C:122:LYS:HG2	2:C:124:PRO:HD3	1.65	0.77
2:H:694:ASN:O	2:I:968:ARG:NH2	2.16	0.77
2:G:559:GLY:HA3	2:G:1011:MET:HB3	1.67	0.77
2:D:662:ALA:HB1	2:E:605:ASN:HD22	1.49	0.77
2:D:204:ARG:O	2:L:22:HIS:ND1	2.18	0.77
2:L:212:ARG:HH22	2:L:1204:PRO:HD3	1.50	0.76
2:K:661:LEU:HD23	2:K:666:LEU:HD11	1.67	0.76
2:M:1059:ILE:HG22	2:M:1081:ILE:HG22	1.66	0.76
2:A:756:ARG:HH21	3:Q:66:ARG:HH12	1.34	0.76
2:N:1064:VAL:HG22	2:N:1077:VAL:HG12	1.66	0.76
2:L:748:HIS:HE1	2:L:751:VAL:HB	1.49	0.76
2:F:884:GLN:HA	3:V:66:ARG:HB2	1.68	0.76
2:F:698:LEU:HD21	2:F:1127:VAL:HG22	1.68	0.75
2:B:1146:GLU:HG3	4:g:218:VAL:HA	1.69	0.75
2:H:1059:ILE:HG22	2:H:1081:ILE:HG22	1.66	0.75
2:N:1104:THR:HG22	2:N:1106:MET:H	1.51	0.75
2:B:583:ARG:HE	2:C:999:PRO:HD3	1.51	0.75
2:H:888:GLU:O	2:H:919:ASN:ND2	2.19	0.75
2:J:693:LEU:HD11	2:J:1026:ALA:HB2	1.68	0.75
2:C:1048:LEU:HD11	2:C:1092:SER:HB3	1.69	0.75
2:C:749:HIS:HA	2:C:756:ARG:HH12	1.49	0.75
2:F:895:VAL:HB	2:F:914:GLN:HB2	1.68	0.75
2:A:475:MET:HG2	2:A:478:LEU:HD21	1.69	0.74
2:P:694:ASN:HD22	2:P:704:SER:HB3	1.52	0.74
2:M:212:ARG:HH22	2:M:1204:PRO:HD3	1.51	0.74
2:C:702:PRO:HB3	2:D:965:HIS:HB3	1.69	0.74
2:H:174:GLY:HA3	2:I:101:ALA:HB3	1.68	0.74
2:K:927:PRO:HD2	2:K:952:LEU:HD11	1.69	0.74
2:D:437:VAL:O	2:E:1184:ASN:ND2	2.19	0.74
2:F:543:GLN:HG2	2:F:548:THR:HG22	1.69	0.74
2:I:433:ARG:NH1	2:I:1165:VAL:O	2.19	0.74
2:M:927:PRO:HD2	2:M:952:LEU:HD11	1.68	0.74
2:D:702:PRO:HB3	2:E:965:HIS:HB3	1.69	0.74
2:F:1101:ARG:HH12	2:G:199:ASN:HD21	1.33	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:662:ALA:HA	2:L:671:LEU:HD11	1.69	0.74
2:C:1365:SER:O	2:C:1369:ASN:N	2.21	0.74
2:E:657:ILE:HG23	2:E:661:LEU:HD23	1.69	0.74
2:E:707:VAL:HG12	2:E:1019:SER:HA	1.69	0.73
2:F:1057:VAL:HG12	2:F:1083:THR:HG22	1.69	0.73
4:j:49:ARG:HB3	4:j:145:LEU:HD11	1.70	0.73
2:J:1059:ILE:HG22	2:J:1081:ILE:HG22	1.68	0.73
2:L:478:LEU:HD11	2:L:509:VAL:HG22	1.71	0.73
2:M:478:LEU:HD13	2:M:512:MET:CE	2.18	0.73
2:D:1044:VAL:HG13	2:D:1096:VAL:HG13	1.71	0.73
2:D:1057:VAL:HG12	2:D:1083:THR:HG22	1.71	0.73
2:F:887:GLY:O	2:F:919:ASN:ND2	2.22	0.73
2:E:261:TYR:HB3	2:E:269:ILE:HD12	1.70	0.73
2:E:716:TRP:HB2	2:E:914:GLN:HE21	1.53	0.73
2:F:527:ILE:HG23	2:F:1218:ARG:HH22	1.53	0.73
2:E:812:PHE:HB2	3:U:65:LEU:HD21	1.71	0.73
2:M:662:ALA:HA	2:M:671:LEU:HD11	1.70	0.73
5:h:140:MET:HE3	5:h:144:LEU:HD23	1.71	0.73
5:n:92:TYR:HB2	5:n:305:LYS:HE3	1.71	0.73
1:w:99:ARG:HG3	1:w:103:ARG:HB3	1.69	0.73
2:H:1104:THR:HG22	2:H:1106:MET:H	1.54	0.72
2:C:20:LEU:HD23	2:C:21:THR:HG23	1.70	0.72
1:5:87:VAL:HG21	1:5:203:LEU:HD22	1.71	0.72
2:D:223:MET:HE1	2:D:1318:THR:HG21	1.71	0.72
2:M:1001:VAL:O	2:M:1003:HIS:N	2.22	0.72
2:I:495:ILE:HG23	2:I:496:PRO:HD3	1.72	0.72
2:L:263:THR:HG23	2:L:294:GLU:HG2	1.70	0.72
2:O:556:ILE:HG21	2:O:986:TRP:HZ3	1.54	0.72
2:A:748:HIS:O	2:A:756:ARG:NH1	2.22	0.72
2:G:1057:VAL:HG12	2:G:1083:THR:HG22	1.70	0.72
2:M:1021:VAL:HG11	2:M:1134:ALA:HB1	1.72	0.72
1:2:122:ALA:HB2	1:2:214:ARG:HG2	1.71	0.72
2:A:478:LEU:CD2	2:A:527:ILE:HD12	2.19	0.72
2:H:419:THR:HG22	2:H:421:ARG:H	1.54	0.72
2:E:945:ASN:HB3	2:E:948:ILE:HG22	1.70	0.72
2:N:419:THR:HG22	2:N:421:ARG:H	1.53	0.72
2:B:725:ARG:HA	2:B:771:TYR:HB3	1.72	0.72
2:B:1344:PHE:HD1	2:B:1364:GLN:HE21	1.36	0.72
2:G:246:LEU:O	2:G:1093:ASN:ND2	2.23	0.72
5:l:110:VAL:HG23	5:l:287:VAL:HG21	1.71	0.72
2:E:212:ARG:HH22	2:E:1204:PRO:HD3	1.54	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:583:ARG:HH12	2:P:998:CYS:HA	1.54	0.72
2:P:212:ARG:HH22	2:P:1204:PRO:HD3	1.54	0.71
5:r:72:LEU:HD11	5:r:92:TYR:HB3	1.72	0.71
2:A:1185:TYR:OH	2:A:1191:ASN:O	2.08	0.71
2:E:702:PRO:HG3	2:F:964:PRO:HG2	1.72	0.71
2:K:212:ARG:HH22	2:K:1204:PRO:HD3	1.54	0.71
2:P:888:GLU:O	2:P:919:ASN:ND2	2.23	0.71
2:B:712:ASP:O	2:B:782:LYS:NZ	2.23	0.71
2:C:1181:MET:HE3	2:C:1184:ASN:HB2	1.71	0.71
2:P:705:ALA:HB1	2:P:712:ASP:HB3	1.72	0.71
2:G:451:HIS:HE1	2:G:1120:ASN:HD22	1.39	0.71
2:G:1191:ASN:ND2	2:G:1319:GLN:O	2.24	0.71
2:O:433:ARG:NH2	2:P:214:ASN:OD1	2.23	0.71
2:O:945:ASN:HB3	2:O:948:ILE:HG22	1.71	0.71
4:m:175:TRP:HE1	4:m:205:LEU:HB3	1.54	0.71
2:I:274:VAL:HG12	2:I:370:GLU:HB3	1.70	0.71
2:O:1104:THR:HG22	2:O:1106:MET:H	1.54	0.71
4:s:185:VAL:HG22	4:s:206:THR:HG22	1.72	0.71
2:L:478:LEU:CD1	2:L:509:VAL:HG22	2.21	0.71
2:N:263:THR:HB	2:N:267:ALA:HB3	1.73	0.71
2:O:424:LEU:HD11	2:O:573:LEU:HB3	1.71	0.71
5:h:17:SER:H	5:h:20:ASP:HB2	1.55	0.71
5:t:4:MET:HB2	5:t:37:ARG:HH21	1.56	0.71
2:D:231:ASN:HB3	2:D:1366:MET:SD	2.30	0.71
2:K:1104:THR:HG22	2:K:1106:MET:H	1.56	0.71
2:G:433:ARG:HH11	2:G:1166:HIS:HA	1.56	0.71
2:M:425:PRO:HB3	2:M:1328:THR:HG23	1.73	0.71
5:u:23:LYS:HD2	5:u:124:LEU:HB3	1.71	0.71
2:D:695:ASN:HD21	2:E:507:ARG:HG3	1.53	0.71
2:A:110:ARG:HG3	2:A:112:THR:H	1.53	0.70
2:E:707:VAL:HG11	2:E:1022:LEU:HD23	1.71	0.70
2:F:425:PRO:HB3	2:F:1328:THR:HG23	1.73	0.70
2:K:733:VAL:HG12	2:K:738:PRO:HA	1.72	0.70
2:O:1193:ARG:HH21	2:O:1197:SER:HB3	1.56	0.70
4:m:167:ILE:HD13	4:m:204:VAL:HG11	1.73	0.70
2:B:519:THR:OG1	2:G:439:LYS:NZ	2.24	0.70
2:E:796:ARG:HA	2:E:945:ASN:HD22	1.56	0.70
2:B:1064:VAL:HG22	2:B:1077:VAL:HG12	1.73	0.70
4:g:213:GLN:NE2	5:h:280:ASP:O	2.24	0.70
2:C:430:LEU:HD12	2:C:1108:VAL:HG13	1.73	0.70
2:D:1115:ARG:HG3	2:D:1158:GLU:HG2	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:888:GLU:O	2:J:919:ASN:ND2	2.24	0.70
2:B:174:GLY:HA3	2:C:101:ALA:HB3	1.74	0.70
2:G:808:LEU:HD23	2:G:883:VAL:HG13	1.73	0.70
2:K:182:THR:HG21	2:K:1083:THR:HG21	1.73	0.70
2:D:1104:THR:HG22	2:D:1106:MET:H	1.56	0.70
2:E:1064:VAL:HG22	2:E:1077:VAL:HG12	1.73	0.70
5:i:97:THR:HG23	5:i:99:PRO:HD2	1.73	0.70
2:A:1312:GLU:HG2	2:A:1315:CYS:HB2	1.74	0.70
2:B:583:ARG:NH2	2:C:572:GLU:OE2	2.24	0.70
2:I:927:PRO:HD2	2:I:952:LEU:HD11	1.74	0.70
2:M:63:TRP:HH2	2:M:165:LYS:HB3	1.57	0.70
2:O:888:GLU:O	2:O:919:ASN:ND2	2.24	0.70
5:u:110:VAL:HG23	5:u:287:VAL:HG21	1.74	0.70
2:D:1059:ILE:HG22	2:D:1081:ILE:HG22	1.72	0.70
2:G:1102:VAL:HG11	2:G:1106:MET:HE3	1.74	0.70
2:H:1001:VAL:O	2:H:1003:HIS:N	2.24	0.70
2:P:274:VAL:HG12	2:P:370:GLU:HB3	1.74	0.70
2:J:1101:ARG:HH21	2:K:202:LEU:HD13	1.56	0.69
2:P:760:MET:HB3	2:P:889:HIS:HD2	1.55	0.69
5:l:109:CYS:HA	5:l:287:VAL:HG22	1.74	0.69
2:B:457:PRO:HG3	2:B:907:LEU:HD12	1.73	0.69
2:L:1059:ILE:HG22	2:L:1081:ILE:HG22	1.74	0.69
2:H:694:ASN:HD22	2:H:704:SER:HB3	1.57	0.69
2:M:93:PHE:HB2	2:M:116:VAL:HG23	1.72	0.69
2:O:263:THR:HB	2:O:267:ALA:HB3	1.75	0.69
2:A:657:ILE:HG23	2:A:661:LEU:HD23	1.73	0.69
2:D:263:THR:HB	2:D:267:ALA:HB3	1.73	0.69
2:O:1060:ASN:O	2:O:1079:GLN:NE2	2.22	0.69
1:v:170:ASN:ND2	1:v:185:ASP:OD2	2.25	0.69
2:D:36:ARG:HD3	2:N:116:VAL:HG13	1.74	0.69
2:C:945:ASN:HB3	2:C:948:ILE:HG22	1.75	0.69
2:D:888:GLU:O	2:D:919:ASN:ND2	2.26	0.69
2:L:945:ASN:HB3	2:L:948:ILE:HG22	1.75	0.69
2:P:1104:THR:HG22	2:P:1106:MET:H	1.56	0.69
2:C:78:ILE:HB	2:C:1058:ILE:HG22	1.73	0.69
2:H:999:PRO:HD3	2:M:583:ARG:HH12	1.58	0.69
2:I:600:THR:OG1	2:I:645:LEU:O	2.11	0.69
5:h:108:LEU:HB2	5:h:288:PHE:HB2	1.74	0.69
4:m:68:ILE:HG22	4:m:131:THR:HA	1.75	0.69
2:G:717:PRO:HG3	2:G:781:GLN:HG3	1.75	0.69
2:H:981:HIS:O	2:H:985:ASN:ND2	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:694:ASN:HD22	2:O:704:SER:HB3	1.58	0.69
5:i:96:ASN:ND2	5:i:297:ASN:O	2.26	0.69
2:D:457:PRO:HG3	2:D:907:LEU:HG	1.74	0.68
2:A:1104:THR:HG22	2:A:1106:MET:H	1.57	0.68
2:D:192:VAL:HG11	2:D:1282:ILE:HD12	1.73	0.68
2:D:433:ARG:NH2	2:E:214:ASN:OD1	2.20	0.68
2:D:705:ALA:HB1	2:D:712:ASP:HB3	1.74	0.68
2:K:657:ILE:HG23	2:K:661:LEU:HD22	1.74	0.68
2:L:822:ALA:HA	3:b:72:ARG:HH12	1.58	0.68
2:M:478:LEU:HD13	2:M:512:MET:HE1	1.74	0.68
1:7:55:GLU:OE1	1:7:231:ARG:NH1	2.27	0.68
2:A:901:HIS:HA	2:A:904:ARG:HG2	1.76	0.68
2:B:98:PRO:HG3	2:G:61:LEU:HD22	1.74	0.68
2:L:445:ALA:HA	2:L:1110:VAL:HG21	1.74	0.68
2:L:1102:VAL:HG11	2:L:1106:MET:HE3	1.74	0.68
4:j:188:ILE:HD12	4:j:205:LEU:HD12	1.75	0.68
2:A:1191:ASN:HD21	2:A:1193:ARG:HE	1.41	0.68
2:L:748:HIS:CE1	2:L:751:VAL:HB	2.29	0.68
2:N:241:LYS:HE3	2:N:245:ARG:HH21	1.58	0.68
2:B:895:VAL:HB	2:B:914:GLN:HB2	1.75	0.68
2:I:127:ILE:HD11	2:J:101:ALA:HA	1.74	0.68
1:O:190:ARG:NH2	2:N:743:ASN:OD1	2.27	0.68
2:A:1182:ASP:HA	2:A:1185:TYR:HB3	1.74	0.68
2:B:605:ASN:O	2:B:642:ARG:NH2	2.26	0.68
2:C:1191:ASN:ND2	2:C:1319:GLN:O	2.27	0.68
2:G:985:ASN:O	2:G:988:ARG:NH1	2.27	0.68
1:v:60:LEU:HB3	1:v:268:LEU:HD11	1.75	0.68
2:F:486:GLU:HB3	2:F:978:ALA:HB2	1.73	0.68
2:I:439:LYS:NZ	2:J:519:THR:OG1	2.27	0.68
2:K:1059:ILE:HG22	2:K:1081:ILE:HG22	1.76	0.68
2:M:1070:ASP:HB2	5:n:92:TYR:HB3	1.76	0.68
2:K:888:GLU:O	2:K:919:ASN:ND2	2.27	0.68
2:O:1102:VAL:HG11	2:O:1106:MET:HE3	1.75	0.68
1:2:136:ALA:HB2	1:2:200:VAL:HG11	1.76	0.67
2:B:562:PRO:HD2	2:B:565:LEU:HD12	1.75	0.67
5:t:287:VAL:HG13	5:t:288:PHE:H	1.60	0.67
2:B:795:ASN:ND2	2:B:992:SER:OG	2.27	0.67
2:E:727:MET:HG3	2:E:730:VAL:HB	1.76	0.67
2:F:71:LEU:HD13	2:F:274:VAL:HG11	1.76	0.67
2:K:66:PHE:HA	2:K:176:ILE:HD11	1.76	0.67
2:O:1109:ARG:HH21	2:O:1169:LYS:HD3	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o:110:VAL:HG23	5:o:287:VAL:HG21	1.74	0.67
2:K:760:MET:HB3	2:K:889:HIS:HD2	1.58	0.67
2:N:1154:GLY:HA3	2:N:1257:LYS:HG3	1.75	0.67
1:4:122:ALA:HB2	1:4:214:ARG:HG2	1.76	0.67
2:C:638:MET:HE1	2:C:642:ARG:HH11	1.60	0.67
2:E:1057:VAL:HG12	2:E:1083:THR:HG22	1.76	0.67
3:Z:25:VAL:HA	3:Z:57:LYS:HD2	1.77	0.67
4:g:167:ILE:HG12	4:g:204:VAL:HG11	1.76	0.67
5:q:101:THR:HA	5:q:297:ASN:HD21	1.59	0.67
2:C:61:LEU:HG	2:D:98:PRO:HG3	1.75	0.67
2:M:760:MET:HB3	2:M:889:HIS:HD2	1.60	0.67
2:O:941:ARG:HH12	2:O:982:GLU:HG3	1.59	0.67
2:P:424:LEU:HD11	2:P:573:LEU:HB3	1.75	0.67
5:n:122:GLU:HG3	5:n:123:ASN:H	1.58	0.67
5:u:160:ARG:HH11	5:u:188:VAL:HG21	1.60	0.67
2:B:164:LEU:HD22	2:B:317:SER:HB2	1.76	0.67
2:B:408:THR:HB	2:G:415:LYS:HB3	1.76	0.67
2:D:28:GLY:HA3	2:N:206:ALA:HB2	1.77	0.67
2:F:494:ARG:HA	2:F:497:HIS:HD2	1.58	0.67
2:H:583:ARG:HH12	2:I:998:CYS:HA	1.59	0.67
2:O:945:ASN:ND2	2:O:947:THR:OG1	2.27	0.67
2:D:124:PRO:HB3	2:D:1080:ASN:HD22	1.59	0.67
2:E:120:SER:HB3	2:E:1084:VAL:HG12	1.77	0.67
2:G:186:LYS:NZ	2:G:1091:THR:OG1	2.28	0.67
2:I:234:ARG:HH22	2:I:282:ILE:HD13	1.58	0.67
2:C:419:THR:HG22	2:C:421:ARG:H	1.60	0.67
2:H:269:ILE:HD13	2:H:368:ILE:HD11	1.77	0.67
2:H:494:ARG:HA	2:H:497:HIS:HD2	1.60	0.67
2:I:275:SER:HB2	2:I:280:MET:HE3	1.75	0.67
2:L:600:THR:OG1	2:L:645:LEU:O	2.12	0.67
2:A:890:VAL:HA	2:A:919:ASN:HB3	1.77	0.67
2:D:1185:TYR:OH	2:D:1191:ASN:O	2.10	0.67
2:F:446:LEU:HD21	2:F:1021:VAL:HG13	1.76	0.67
2:F:487:PRO:HG2	2:F:494:ARG:HH12	1.60	0.67
2:I:78:ILE:HB	2:I:1058:ILE:HG22	1.77	0.67
1:v:188:LEU:HD13	1:v:202:LYS:HG2	1.76	0.67
2:C:30:GLU:HB3	2:M:1277:THR:OG1	1.95	0.67
2:M:133:ALA:N	2:M:1071:ILE:O	2.20	0.67
2:M:1044:VAL:HG11	2:M:1096:VAL:HG13	1.77	0.67
2:D:689:ALA:O	2:D:694:ASN:ND2	2.28	0.66
2:F:931:ILE:HD11	2:F:952:LEU:HA	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:748:HIS:O	2:H:756:ARG:NH1	2.25	0.66
2:I:207:LEU:HD13	2:I:212:ARG:HB3	1.77	0.66
2:L:1336:LYS:HE3	2:L:1355:VAL:HG11	1.77	0.66
2:N:654:VAL:HG23	2:N:674:TYR:HD2	1.60	0.66
5:t:65:LEU:HD21	5:t:110:VAL:HG22	1.77	0.66
1:y:181:VAL:HG11	1:y:209:LEU:HD11	1.75	0.66
2:J:600:THR:OG1	2:J:645:LEU:O	2.13	0.66
5:i:108:LEU:O	5:i:286:VAL:HG13	1.95	0.66
4:m:265:VAL:HG22	4:m:270:LYS:HG2	1.76	0.66
2:B:537:PHE:HA	2:B:554:PRO:HA	1.76	0.66
2:B:993:ARG:NH2	2:G:692:GLY:O	2.27	0.66
2:B:1365:SER:O	2:B:1369:ASN:N	2.24	0.66
2:K:756:ARG:HH21	3:a:66:ARG:HH12	1.41	0.66
5:k:70:LEU:HB2	5:k:305:LYS:HZ1	1.60	0.66
2:B:635:ILE:HG12	2:B:646:VAL:HB	1.77	0.66
2:E:733:VAL:HG12	2:E:738:PRO:HA	1.78	0.66
3:V:37:HIS:HD2	3:V:38:PRO:HD2	1.60	0.66
2:D:1115:ARG:HD2	2:D:1157:SER:HB2	1.77	0.66
2:E:1044:VAL:HG13	2:E:1096:VAL:HG13	1.78	0.66
2:F:1292:CYS:HB2	2:F:1310:LEU:HD23	1.78	0.66
2:G:488:MET:HG3	2:G:894:GLU:HB2	1.76	0.66
4:s:165:LEU:HD23	4:s:276:LEU:HD12	1.78	0.66
1:7:178:MET:HE1	1:7:217:TRP:HB2	1.76	0.66
2:D:212:ARG:HH22	2:D:1204:PRO:HD3	1.61	0.66
1:0:88:ALA:HB2	1:0:109:LEU:HD22	1.78	0.66
2:B:502:ARG:HH12	2:B:958:ARG:HB3	1.60	0.66
2:E:625:LEU:HD23	3:U:75:ARG:HH12	1.61	0.66
2:F:633:ARG:HD2	2:F:867:ASP:HB2	1.77	0.66
2:D:681:LEU:HB3	2:D:780:LEU:HD22	1.78	0.66
2:E:433:ARG:HH11	2:E:1166:HIS:HA	1.61	0.66
2:I:199:ASN:HD22	2:I:215:ILE:HD13	1.61	0.66
2:J:495:ILE:HG23	2:J:496:PRO:HD3	1.78	0.66
2:N:124:PRO:HG2	5:k:40:LEU:HD21	1.78	0.66
2:B:79:LYS:HE3	2:B:306:VAL:HG21	1.78	0.66
2:C:66:PHE:HD1	2:C:176:ILE:HG12	1.60	0.66
2:C:1035:THR:HG23	2:C:1176:LEU:HD22	1.78	0.66
2:C:1244:TYR:HB2	2:C:1266:PHE:HD2	1.59	0.66
2:D:216:LEU:HD13	2:D:1200:LEU:HD12	1.77	0.66
2:E:690:LEU:O	2:E:692:GLY:N	2.28	0.66
2:J:1327:THR:HG22	2:J:1355:VAL:HG22	1.76	0.66
2:A:1359:ILE:HG13	2:A:1360:ILE:HG12	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:380:ASP:HA	2:C:204:ARG:HG3	1.78	0.66
2:D:945:ASN:HB3	2:D:948:ILE:HG22	1.78	0.66
2:G:888:GLU:O	2:G:919:ASN:ND2	2.28	0.66
2:J:583:ARG:HH12	2:K:999:PRO:HD3	1.60	0.66
2:M:748:HIS:O	2:M:756:ARG:NH1	2.27	0.66
2:O:688:SER:HB3	2:O:708:ASN:HD22	1.60	0.66
2:I:888:GLU:O	2:I:919:ASN:ND2	2.30	0.65
2:J:488:MET:HE1	2:J:978:ALA:HB1	1.76	0.65
2:L:733:VAL:HG12	2:L:738:PRO:HA	1.78	0.65
5:i:97:THR:HG21	5:i:136:TRP:HA	1.77	0.65
2:B:1327:THR:HG22	2:B:1355:VAL:HG22	1.77	0.65
2:D:553:THR:HG21	2:D:983:TYR:HB3	1.79	0.65
2:M:694:ASN:HD22	2:M:704:SER:HB3	1.61	0.65
5:q:210:LEU:HD13	5:q:271:LEU:HA	1.78	0.65
2:B:419:THR:HG22	2:B:421:ARG:H	1.61	0.65
2:C:53:ILE:HG12	2:D:90:LYS:HD3	1.79	0.65
2:H:424:LEU:HD11	2:H:573:LEU:HB3	1.77	0.65
2:L:1154:GLY:HA3	2:L:1257:LYS:HG3	1.79	0.65
2:P:805:LYS:H	2:P:889:HIS:HE1	1.43	0.65
4:g:233:ARG:HH21	4:g:240:GLN:HB2	1.61	0.65
5:i:147:ASN:ND2	5:i:284:GLU:OE2	2.30	0.65
5:u:214:LEU:HD21	5:u:267:ARG:HB3	1.78	0.65
2:A:227:LEU:HD23	2:A:1360:ILE:HG21	1.76	0.65
2:F:798:CYS:SG	2:F:799:GLY:N	2.69	0.65
2:M:419:THR:HG22	2:M:421:ARG:H	1.61	0.65
2:N:315:ALA:HB2	2:N:321:ILE:HD11	1.78	0.65
2:O:435:ARG:HH21	2:O:1364:GLN:HA	1.61	0.65
2:E:66:PHE:HA	2:E:176:ILE:HD11	1.78	0.65
2:H:1341:ALA:HA	2:H:1364:GLN:HE22	1.62	0.65
2:L:127:ILE:HD11	2:M:101:ALA:HA	1.79	0.65
2:L:200:ALA:HB1	2:N:21:THR:H	1.60	0.65
2:M:1104:THR:HG22	2:M:1106:MET:H	1.60	0.65
2:N:1336:LYS:HE3	2:N:1355:VAL:HG11	1.77	0.65
2:O:694:ASN:O	2:P:968:ARG:NH1	2.30	0.65
2:C:538:ASP:OD1	2:C:555:ARG:NH2	2.30	0.65
2:I:534:HIS:HD2	2:I:537:PHE:HD1	1.44	0.65
2:M:888:GLU:O	2:M:919:ASN:ND2	2.30	0.65
2:E:272:VAL:HA	2:E:368:ILE:HB	1.78	0.65
2:J:124:PRO:HB3	2:J:1080:ASN:HD22	1.62	0.65
2:O:106:LEU:HD12	2:O:107:PRO:HD2	1.78	0.65
2:P:507:ARG:HD3	2:P:512:MET:HE3	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:662:ALA:HA	2:P:671:LEU:HD11	1.78	0.65
3:U:22:VAL:HG13	3:U:28:LEU:HD12	1.78	0.65
4:g:135:VAL:HG11	4:g:138:VAL:HG23	1.78	0.65
5:h:205:SER:HB3	5:i:238:LEU:HD11	1.77	0.65
2:A:4:TRP:HE1	2:G:171:MET:HG2	1.62	0.65
2:B:1054:CYS:SG	2:B:1055:THR:N	2.69	0.65
2:B:1263:ALA:O	2:B:1267:ASN:ND2	2.30	0.65
2:G:190:TYR:N	2:G:1094:THR:O	2.29	0.65
2:I:216:LEU:HD13	2:I:1200:LEU:HD12	1.79	0.65
2:J:705:ALA:HB1	2:J:712:ASP:HB3	1.78	0.65
2:L:654:VAL:HG23	2:L:674:TYR:HD1	1.62	0.65
2:P:945:ASN:HB3	2:P:948:ILE:HG22	1.79	0.65
4:j:168:PRO:HA	4:j:273:VAL:HG12	1.79	0.65
1:3:178:MET:HB2	1:3:213:VAL:HG13	1.77	0.65
1:9:129:LEU:HD11	1:9:207:GLY:HA3	1.77	0.65
2:I:269:ILE:HD13	2:I:368:ILE:HD11	1.78	0.65
5:o:214:LEU:HD23	5:o:268:LEU:HD23	1.76	0.65
4:p:182:LEU:HD22	5:q:4:MET:HG3	1.78	0.65
2:B:151:ILE:HD12	2:C:332:LEU:HG	1.78	0.65
2:D:127:ILE:HD11	2:E:101:ALA:HA	1.78	0.65
2:E:927:PRO:HD2	2:E:952:LEU:HD11	1.79	0.65
2:J:798:CYS:HB3	2:J:948:ILE:HG21	1.78	0.65
5:o:31:VAL:HG21	5:o:137:ILE:HD11	1.79	0.65
4:p:139:SER:HB3	4:p:145:LEU:H	1.61	0.65
2:B:374:ARG:HG3	2:B:375:VAL:HG13	1.78	0.64
2:E:1193:ARG:NH1	2:E:1195:ARG:O	2.26	0.64
2:G:94:HIS:HA	2:G:115:MET:HG2	1.79	0.64
2:K:269:ILE:HD13	2:K:368:ILE:HD11	1.78	0.64
2:K:1264:GLN:OE1	2:K:1313:ASN:ND2	2.29	0.64
2:L:251:THR:HG21	2:L:1089:GLY:HA3	1.79	0.64
2:L:981:HIS:O	2:L:985:ASN:ND2	2.30	0.64
2:O:654:VAL:HG23	2:O:674:TYR:HD2	1.62	0.64
4:s:66:LEU:HD12	4:s:84:LEU:HD22	1.78	0.64
2:B:928:LYS:NZ	2:G:659:GLU:OE2	2.30	0.64
2:B:1125:ASP:O	2:B:1127:VAL:N	2.30	0.64
2:D:200:ALA:HB1	2:L:21:THR:H	1.62	0.64
2:D:1244:TYR:HB2	2:D:1266:PHE:HD2	1.63	0.64
2:H:461:LEU:HD13	2:H:552:CYS:HB2	1.77	0.64
2:O:710:LEU:HD11	2:O:783:VAL:HG22	1.79	0.64
5:k:118:PRO:O	5:k:119:LEU:HB2	1.97	0.64
4:p:60:GLU:OE2	4:p:83:SER:OG	2.16	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:41:CYS:O	1:4:54:ASN:ND2	2.30	0.64
2:A:562:PRO:HD2	2:A:565:LEU:HD12	1.78	0.64
2:D:748:HIS:O	2:D:756:ARG:NH1	2.30	0.64
2:G:216:LEU:HD13	2:G:1200:LEU:HD12	1.79	0.64
5:i:56:ARG:HG3	5:i:60:ARG:HH11	1.60	0.64
5:k:126:THR:HG22	5:k:131:GLU:HG2	1.79	0.64
1:4:4:GLN:H	1:4:57:MET:HE2	1.63	0.64
2:A:157:MET:HG3	2:G:23:VAL:HG11	1.77	0.64
2:C:968:ARG:HG2	2:C:970:ASP:H	1.63	0.64
2:E:495:ILE:HD12	2:E:976:PRO:HG2	1.80	0.64
4:j:68:ILE:HG22	4:j:131:THR:HA	1.78	0.64
1:x:64:ARG:HG2	1:x:268:LEU:HD21	1.79	0.64
1:9:88:ALA:HB2	1:9:109:LEU:HD22	1.78	0.64
2:D:895:VAL:HB	2:D:914:GLN:HB2	1.80	0.64
2:F:491:ALA:HA	2:F:494:ARG:HB2	1.79	0.64
2:J:125:ILE:HG22	2:K:103:GLY:HA2	1.80	0.64
2:K:698:LEU:HB2	2:K:706:TYR:HE2	1.61	0.64
2:M:945:ASN:HD22	2:M:948:ILE:HG12	1.62	0.64
2:N:1169:LYS:HE3	2:N:1299:THR:HG22	1.78	0.64
5:o:109:CYS:HA	5:o:287:VAL:HG22	1.80	0.64
4:s:151:ARG:HH12	4:s:282:GLU:HG3	1.62	0.64
2:H:211:GLN:O	2:H:215:ILE:HG12	1.98	0.64
2:D:7:LEU:HD21	2:N:94:HIS:HB2	1.80	0.64
2:N:941:ARG:HG3	2:N:992:SER:HB3	1.80	0.64
2:P:600:THR:OG1	2:P:645:LEU:O	2.14	0.64
2:A:796:ARG:HA	2:A:945:ASN:HD22	1.63	0.64
2:C:1336:LYS:HE3	2:C:1355:VAL:HG11	1.80	0.64
2:E:439:LYS:NZ	2:F:519:THR:OG1	2.31	0.64
2:K:315:ALA:HB2	2:K:321:ILE:HD11	1.79	0.64
2:K:1215:TYR:OH	2:K:1268:THR:OG1	2.13	0.64
5:q:92:TYR:HB2	5:q:305:LYS:HE2	1.79	0.64
2:B:515:ASP:OD1	2:B:993:ARG:NH1	2.30	0.64
2:D:617:VAL:HG12	2:D:619:GLY:H	1.62	0.64
2:E:554:PRO:O	2:E:988:ARG:NH2	2.31	0.64
2:E:1054:CYS:SG	2:E:1055:THR:N	2.71	0.64
2:I:601:VAL:HG21	2:I:793:THR:HG22	1.79	0.64
2:L:78:ILE:HB	2:L:1058:ILE:HG22	1.79	0.64
2:P:1364:GLN:O	2:P:1368:PHE:HB2	1.98	0.64
2:C:1331:ALA:HB2	2:D:407:TYR:HB2	1.78	0.64
2:F:1212:LYS:O	2:F:1216:ASP:N	2.23	0.64
2:H:800:LEU:HA	2:H:937:VAL:HG12	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r:110:VAL:HG23	5:r:287:VAL:HG21	1.79	0.64
2:D:860:LEU:HD12	2:D:861:VAL:HG23	1.80	0.63
2:G:231:ASN:HD21	2:G:1366:MET:HB2	1.64	0.63
2:I:1164:THR:HB	2:J:209:ARG:CZ	2.28	0.63
2:A:226:THR:HG23	2:A:229:LEU:HB2	1.79	0.63
2:A:478:LEU:HD23	2:A:527:ILE:CD1	2.28	0.63
2:A:1122:TYR:HB2	2:A:1128:ASP:HB2	1.78	0.63
2:C:1039:THR:HB	2:C:1261:PRO:HB3	1.79	0.63
2:H:600:THR:OG1	2:H:645:LEU:O	2.17	0.63
2:I:1247:ARG:HG3	2:I:1269:GLU:HG3	1.79	0.63
2:M:688:SER:HB3	2:M:708:ASN:HD22	1.64	0.63
2:O:127:ILE:HD11	2:P:101:ALA:HA	1.80	0.63
2:O:174:GLY:HA3	2:P:101:ALA:HB3	1.79	0.63
5:u:65:LEU:HD21	5:u:110:VAL:HG12	1.79	0.63
2:B:63:TRP:HH2	2:B:165:LYS:HB3	1.63	0.63
2:I:981:HIS:O	2:I:985:ASN:ND2	2.31	0.63
2:K:263:THR:HB	2:K:267:ALA:HB3	1.80	0.63
2:N:51:GLU:H	2:O:320:SER:HA	1.63	0.63
2:N:853:VAL:HB	2:N:857:LEU:HD23	1.79	0.63
2:C:2:GLU:OE2	2:M:90:LYS:NZ	2.31	0.63
2:D:574:ARG:NH2	2:D:1010:ALA:O	2.31	0.63
2:F:707:VAL:HG21	2:F:1022:LEU:HD23	1.81	0.63
2:H:534:HIS:HD2	2:H:537:PHE:HD2	1.46	0.63
2:K:805:LYS:H	2:K:889:HIS:HE1	1.46	0.63
2:L:269:ILE:HD13	2:L:368:ILE:HD11	1.79	0.63
2:L:756:ARG:HH21	3:b:66:ARG:HH12	1.43	0.63
2:M:486:GLU:OE2	2:M:494:ARG:NH2	2.30	0.63
2:P:4:TRP:O	2:P:6:ALA:N	2.32	0.63
5:h:225:GLU:OE1	1:v:103:ARG:NH2	2.31	0.63
5:k:149:ARG:HH21	5:k:172:LEU:HA	1.63	0.63
4:s:188:ILE:HD12	4:s:205:LEU:HD12	1.79	0.63
2:G:424:LEU:HD12	2:G:425:PRO:HD2	1.80	0.63
2:G:632:ALA:HB2	2:G:661:LEU:HD11	1.81	0.63
2:H:605:ASN:HB3	2:M:662:ALA:HB1	1.80	0.63
2:H:1060:ASN:O	2:H:1079:GLN:NE2	2.24	0.63
2:O:601:VAL:HG21	2:O:793:THR:HG22	1.79	0.63
2:D:272:VAL:HA	2:D:368:ILE:HB	1.79	0.63
2:E:507:ARG:HH22	2:E:971:GLY:HA3	1.63	0.63
2:G:260:THR:HA	2:G:352:LEU:HD21	1.79	0.63
2:H:1103:ARG:HH22	2:H:1295:GLY:HA2	1.64	0.63
2:J:261:TYR:HB3	2:J:269:ILE:HD12	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:716:TRP:HZ2	2:K:730:VAL:HG11	1.62	0.63
2:M:733:VAL:HG12	2:M:738:PRO:HA	1.80	0.63
2:N:1001:VAL:O	2:N:1003:HIS:N	2.30	0.63
2:A:470:PRO:O	2:A:476:GLN:NE2	2.32	0.63
2:N:461:LEU:HD13	2:N:552:CYS:HB2	1.79	0.63
4:j:139:SER:HB3	4:j:145:LEU:H	1.64	0.63
5:n:73:MET:HE1	5:n:81:ILE:HD12	1.81	0.63
5:u:31:VAL:HG21	5:u:137:ILE:HD11	1.79	0.63
1:8:122:ALA:HB1	1:8:215:ARG:HE	1.63	0.63
2:J:553:THR:HG21	2:J:983:TYR:HB3	1.80	0.63
5:u:216:MET:HE1	5:u:238:LEU:HB3	1.81	0.63
2:A:424:LEU:HD23	2:A:573:LEU:HG	1.81	0.63
2:B:71:LEU:HD12	2:B:274:VAL:HG11	1.78	0.63
2:E:3:ASN:ND2	2:F:316:ILE:O	2.32	0.63
2:E:420:VAL:HG21	2:E:576:TRP:HB3	1.80	0.63
2:H:1071:ILE:HG23	2:H:1072:SER:H	1.64	0.63
2:J:1103:ARG:HG3	2:K:210:ILE:HG21	1.80	0.63
2:L:1289:ALA:O	2:L:1316:ARG:NH1	2.32	0.63
5:n:121:ARG:HG3	5:n:124:LEU:HB3	1.81	0.63
5:u:10:CYS:HB2	5:u:81:ILE:HB	1.81	0.63
2:A:445:ALA:HA	2:A:1110:VAL:HG11	1.81	0.62
2:D:1206:ASP:O	2:D:1275:ASN:ND2	2.32	0.62
2:J:255:LEU:HD22	2:J:345:SER:HB2	1.81	0.62
2:K:1119:MET:HE1	2:K:1147:THR:HB	1.79	0.62
2:L:667:PRO:HG2	2:L:670:LEU:HD12	1.81	0.62
2:O:1101:ARG:HD3	2:P:199:ASN:HD21	1.64	0.62
5:h:176:THR:HG22	5:h:181:THR:HG22	1.81	0.62
5:o:88:HIS:HA	5:o:304:PHE:HD2	1.63	0.62
2:A:1244:TYR:HB2	2:A:1266:PHE:HD2	1.64	0.62
2:B:441:ASP:OD2	2:B:1027:HIS:ND1	2.31	0.62
2:B:538:ASP:O	2:B:983:TYR:OH	2.14	0.62
2:C:556:ILE:HG21	2:C:986:TRP:HZ3	1.63	0.62
2:D:798:CYS:SG	2:D:799:GLY:N	2.72	0.62
2:E:435:ARG:HG3	2:E:1367:LEU:HD11	1.82	0.62
2:E:715:LEU:HD23	2:E:782:LYS:HD3	1.80	0.62
2:G:717:PRO:HG2	2:G:720:VAL:HG22	1.79	0.62
2:L:440:ILE:HB	2:L:1108:VAL:HG21	1.82	0.62
2:P:556:ILE:HG21	2:P:986:TRP:HZ3	1.64	0.62
5:l:91:LEU:HA	5:l:303:ILE:HA	1.80	0.62
2:C:895:VAL:HB	2:C:914:GLN:HB2	1.80	0.62
2:F:793:THR:HG21	2:F:797:ALA:HB2	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:450:CYS:O	2:G:1122:TYR:OH	2.15	0.62
2:H:654:VAL:HG23	2:H:674:TYR:HD1	1.64	0.62
2:K:432:ASN:OD1	2:K:438:GLN:NE2	2.32	0.62
2:O:1001:VAL:O	2:O:1003:HIS:N	2.32	0.62
2:L:419:THR:HG22	2:L:421:ARG:H	1.64	0.62
2:L:1139:ARG:NH1	2:L:1140:PRO:O	2.32	0.62
2:L:1244:TYR:HB2	2:L:1266:PHE:HD2	1.64	0.62
2:M:1359:ILE:HG23	2:M:1360:ILE:HG13	1.82	0.62
2:N:756:ARG:HH21	3:d:66:ARG:HH12	1.48	0.62
2:O:748:HIS:O	2:O:756:ARG:NH1	2.32	0.62
5:q:37:ARG:HH11	5:q:69:THR:HG21	1.63	0.62
5:q:104:LYS:NZ	5:q:292:ASP:OD1	2.32	0.62
5:u:75:ARG:NH2	5:u:77:GLU:OE2	2.31	0.62
1:x:145:VAL:HG21	1:x:152:GLU:HG2	1.80	0.62
2:E:1001:VAL:O	2:E:1003:HIS:N	2.27	0.62
2:G:565:LEU:HD22	2:G:1177:THR:HG21	1.81	0.62
2:I:556:ILE:HG21	2:I:986:TRP:HZ3	1.65	0.62
2:K:1156:MET:SD	2:K:1294:ARG:NH1	2.73	0.62
2:N:93:PHE:HB2	2:N:116:VAL:HG23	1.81	0.62
2:P:661:LEU:HD23	2:P:666:LEU:HD11	1.80	0.62
5:n:108:LEU:HB2	5:n:288:PHE:HB2	1.81	0.62
1:7:140:VAL:HB	1:7:142:GLU:HG3	1.82	0.62
2:A:151:ILE:HG23	2:G:35:LEU:HD21	1.80	0.62
2:A:936:PRO:HB3	2:A:952:LEU:HD23	1.80	0.62
2:B:392:THR:HA	2:B:1039:THR:HA	1.81	0.62
2:B:691:PRO:HG2	2:C:968:ARG:HD3	1.81	0.62
2:D:998:CYS:SG	2:D:1004:SER:OG	2.53	0.62
2:D:1102:VAL:HG11	2:D:1106:MET:HE3	1.81	0.62
2:E:609:LEU:HB2	2:E:860:LEU:HB3	1.82	0.62
2:F:1313:ASN:HB3	2:F:1316:ARG:HG2	1.80	0.62
2:I:1110:VAL:HA	2:I:1171:ALA:HB3	1.81	0.62
4:g:209:ILE:HG21	4:g:215:LEU:HD13	1.81	0.62
2:A:1057:VAL:HG12	2:A:1083:THR:HG22	1.81	0.62
2:B:1194:GLY:HA3	2:B:1230:ASN:HB2	1.81	0.62
2:D:491:ALA:HA	2:D:494:ARG:HB3	1.81	0.62
2:J:487:PRO:O	2:J:494:ARG:NH2	2.33	0.62
2:L:1070:ASP:OD2	5:l:93:THR:N	2.24	0.62
2:M:727:MET:HB2	2:M:730:VAL:HB	1.80	0.62
2:N:1066:LYS:HG3	2:N:1075:TYR:HE1	1.64	0.62
4:p:167:ILE:HD13	4:p:204:VAL:HG11	1.82	0.62
4:s:139:SER:HB3	4:s:145:LEU:H	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:t:71:THR:HG22	5:t:85:VAL:HG22	1.81	0.62
1:3:4:GLN:H	1:3:57:MET:HE2	1.65	0.62
2:B:707:VAL:HG11	2:B:1022:LEU:HD23	1.82	0.62
2:C:739:LEU:HD22	2:C:744:ILE:HG21	1.82	0.62
2:C:1104:THR:HG22	2:C:1106:MET:H	1.65	0.62
2:E:672:PHE:HA	2:E:675:ARG:HG2	1.80	0.62
2:F:617:VAL:HG12	2:F:619:GLY:H	1.63	0.62
2:H:945:ASN:HB3	2:H:948:ILE:HG22	1.80	0.62
2:J:461:LEU:HD13	2:J:552:CYS:HB2	1.81	0.62
2:N:1161:ALA:HB3	2:N:1164:THR:HG22	1.81	0.62
2:O:693:LEU:HD11	2:O:1026:ALA:HB2	1.82	0.62
2:C:688:SER:HB2	2:C:708:ASN:HD22	1.65	0.62
2:E:311:ASN:ND2	2:E:322:LEU:O	2.33	0.62
2:F:883:VAL:HG11	3:V:65:LEU:HG	1.82	0.62
2:K:8:GLU:HB3	2:O:115:MET:HE1	1.81	0.62
2:M:341:ASN:OD1	2:M:342:ASP:N	2.32	0.62
2:O:260:THR:HG22	2:O:352:LEU:HD21	1.82	0.62
2:G:553:THR:HG21	2:G:983:TYR:HB3	1.81	0.62
2:H:1268:THR:HA	2:H:1271:ILE:HG22	1.82	0.62
2:J:1038:ARG:NH1	2:J:1107:GLY:O	2.32	0.62
2:L:66:PHE:HA	2:L:176:ILE:HD11	1.82	0.62
2:N:694:ASN:HD22	2:N:704:SER:HB3	1.63	0.62
2:P:654:VAL:HG23	2:P:674:TYR:HD1	1.65	0.62
4:m:40:HIS:HA	4:m:43:HIS:CD2	2.34	0.62
4:m:87:LEU:HD21	4:m:202:ILE:HG13	1.82	0.62
4:m:247:VAL:HG11	4:m:286:PHE:HD1	1.65	0.62
2:A:565:LEU:HD22	2:A:1177:THR:HG21	1.82	0.61
2:C:8:GLU:HG2	2:M:115:MET:HE1	1.80	0.61
2:E:712:ASP:O	2:E:782:LYS:NZ	2.33	0.61
2:H:1062:PRO:HG2	4:p:33:ILE:HA	1.82	0.61
2:L:1060:ASN:O	2:L:1079:GLN:NE2	2.27	0.61
2:M:435:ARG:HG3	2:M:1367:LEU:HD13	1.82	0.61
2:M:1069:ARG:NH1	2:M:1074:THR:OG1	2.33	0.61
2:N:931:ILE:HD11	2:N:952:LEU:HA	1.82	0.61
2:O:583:ARG:NH2	2:P:572:GLU:OE2	2.33	0.61
2:O:727:MET:HB2	2:O:730:VAL:HB	1.82	0.61
4:p:258:ASP:HB3	4:p:277:ASP:HB3	1.82	0.61
5:q:206:MET:HB3	5:q:274:MET:HE2	1.82	0.61
2:C:263:THR:HB	2:C:267:ALA:HB3	1.82	0.61
2:C:1327:THR:HG22	2:C:1355:VAL:HG22	1.81	0.61
2:F:733:VAL:HG23	2:F:894:GLU:HB3	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:524:VAL:HA	2:H:1227:ALA:HB2	1.82	0.61
2:P:430:LEU:HD12	2:P:1108:VAL:HG22	1.82	0.61
4:g:67:LEU:HD21	4:g:146:LEU:HD11	1.82	0.61
5:q:148:GLN:OE1	5:r:276:ARG:NH2	2.33	0.61
1:v:190:ARG:HG2	1:v:195:ALA:HB2	1.82	0.61
2:B:263:THR:HB	2:B:267:ALA:HB3	1.81	0.61
2:F:269:ILE:HD13	2:F:368:ILE:HD11	1.82	0.61
2:F:862:GLU:HA	2:F:872:LEU:HD21	1.82	0.61
2:G:1347:SER:HB3	2:G:1357:GLY:H	1.64	0.61
2:I:1336:LYS:HE3	2:I:1355:VAL:HG11	1.82	0.61
2:J:173:ARG:HB3	2:K:100:VAL:HG23	1.82	0.61
5:l:145:GLU:HG2	5:l:177:PHE:HZ	1.65	0.61
2:C:440:ILE:HB	2:C:1108:VAL:HG12	1.82	0.61
2:F:1064:VAL:HG22	2:F:1077:VAL:HG12	1.82	0.61
2:F:1191:ASN:ND2	2:F:1319:GLN:O	2.33	0.61
2:K:732:VAL:HG22	2:K:895:VAL:HG22	1.82	0.61
2:K:945:ASN:ND2	2:K:947:THR:OG1	2.34	0.61
2:E:884:GLN:HA	3:U:66:ARG:HB2	1.82	0.61
2:N:606:TYR:HB3	2:N:925:THR:HG21	1.81	0.61
5:t:37:ARG:HH12	5:t:85:VAL:HG11	1.66	0.61
1:6:88:ALA:HB2	1:6:109:LEU:HD22	1.83	0.61
2:A:234:ARG:NH1	2:A:1369:ASN:HA	2.14	0.61
2:A:1238:CYS:SG	2:A:1240:SER:OG	2.57	0.61
2:C:269:ILE:HA	2:C:366:THR:HB	1.82	0.61
2:D:421:ARG:HD3	2:E:404:ASP:HB3	1.81	0.61
2:E:558:ILE:HD11	2:E:1031:GLY:HA3	1.82	0.61
2:H:884:GLN:HA	3:X:66:ARG:HB2	1.83	0.61
2:I:259:THR:HG22	2:I:352:LEU:HD11	1.83	0.61
2:K:770:ASP:O	2:K:772:ARG:N	2.32	0.61
2:L:657:ILE:HG23	2:L:661:LEU:HD22	1.82	0.61
2:M:447:LYS:HD2	2:M:1112:ASP:HB3	1.82	0.61
2:M:1289:ALA:O	2:M:1316:ARG:NH1	2.33	0.61
2:O:983:TYR:O	2:O:988:ARG:NH2	2.33	0.61
5:h:206:MET:HB2	5:h:274:MET:HE2	1.81	0.61
4:p:168:PRO:HA	4:p:273:VAL:HG12	1.83	0.61
1:7:129:LEU:HD11	1:7:207:GLY:HA3	1.83	0.61
2:A:426:THR:HG23	2:A:427:THR:HG23	1.82	0.61
2:F:446:LEU:HD11	2:F:1021:VAL:HG22	1.82	0.61
2:H:554:PRO:HD3	2:H:907:LEU:HD12	1.82	0.61
2:K:15:ILE:HG21	2:O:254:ILE:HG23	1.81	0.61
2:M:1064:VAL:HG22	2:M:1077:VAL:HG12	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:461:LEU:HD13	2:P:552:CYS:HB2	1.82	0.61
4:m:61:ALA:HA	4:m:138:VAL:HG21	1.82	0.61
2:B:941:ARG:HD2	2:B:982:GLU:HG3	1.83	0.61
2:E:820:MET:HG3	2:E:877:ARG:HH21	1.65	0.61
2:F:417:ASN:OD1	2:F:422:ASN:ND2	2.33	0.61
2:G:606:TYR:HB3	2:G:925:THR:HG21	1.82	0.61
2:G:1259:TYR:OH	2:G:1264:GLN:NE2	2.33	0.61
2:P:1103:ARG:NH2	2:P:1295:GLY:O	2.33	0.61
1:6:28:ASP:OD1	1:6:176:ARG:NH1	2.31	0.61
1:8:105:HIS:O	1:8:131:SER:OG	2.18	0.61
2:F:475:MET:SD	2:F:1218:ARG:NH2	2.73	0.61
2:I:661:LEU:HD23	2:I:666:LEU:HD11	1.81	0.61
5:h:14:HIS:HB2	5:h:127:LEU:HD22	1.81	0.61
1:5:73:LEU:O	1:5:77:LEU:N	2.25	0.61
2:A:1065:THR:HB	2:A:1076:HIS:HB2	1.83	0.61
2:C:216:LEU:HD13	2:C:1200:LEU:HD12	1.82	0.61
2:C:515:ASP:HA	2:C:993:ARG:HH22	1.65	0.61
2:D:494:ARG:HA	2:D:497:HIS:HD2	1.66	0.61
2:F:263:THR:HB	2:F:267:ALA:HB3	1.82	0.61
2:F:524:VAL:HA	2:F:1227:ALA:HB2	1.83	0.61
2:G:263:THR:HB	2:G:267:ALA:HB3	1.82	0.61
2:G:326:ASN:HA	2:G:329:LYS:HE2	1.83	0.61
2:H:1038:ARG:NH1	2:H:1107:GLY:O	2.33	0.61
2:J:475:MET:SD	2:J:1218:ARG:NH2	2.73	0.61
2:L:263:THR:HB	2:L:267:ALA:HB3	1.82	0.61
2:M:698:LEU:HB2	2:M:706:TYR:HE2	1.66	0.61
2:M:1250:GLU:HA	2:M:1254:TYR:HE1	1.66	0.61
2:N:1059:ILE:HG22	2:N:1081:ILE:HG22	1.83	0.61
2:A:926:ALA:H	2:A:948:ILE:HD11	1.64	0.60
2:E:1104:THR:HG22	2:E:1106:MET:H	1.63	0.60
2:E:1154:GLY:HA3	2:E:1257:LYS:HG3	1.82	0.60
2:F:1200:LEU:HD21	2:F:1281:THR:HG21	1.83	0.60
2:H:695:ASN:H	2:H:703:LEU:HD23	1.66	0.60
2:I:4:TRP:O	2:I:6:ALA:N	2.33	0.60
2:J:945:ASN:HB3	2:J:948:ILE:HG22	1.83	0.60
2:N:432:ASN:OD1	2:N:438:GLN:NE2	2.34	0.60
5:q:37:ARG:HH12	5:q:85:VAL:HG11	1.65	0.60
2:A:145:GLY:HA3	2:B:307:LEU:HD21	1.83	0.60
2:C:747:ARG:NH2	2:C:767:PHE:O	2.34	0.60
2:C:1177:THR:HG1	2:C:1180:THR:HG1	1.49	0.60
2:E:794:ASN:ND2	2:E:995:SER:O	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:968:ARG:HG3	2:I:972:GLY:HA2	1.82	0.60
2:J:760:MET:HB3	2:J:889:HIS:CD2	2.36	0.60
4:g:265:VAL:HG22	4:g:270:LYS:HG2	1.83	0.60
2:A:693:LEU:O	2:A:695:ASN:N	2.33	0.60
2:G:1159:ARG:HH12	2:G:1169:LYS:HZ1	1.47	0.60
2:J:417:ASN:O	2:J:422:ASN:ND2	2.31	0.60
2:N:139:LEU:HD22	2:N:160:VAL:HG21	1.83	0.60
3:Q:67:MET:HE1	1:x:277:ILE:HD11	1.82	0.60
4:j:181:ARG:HB2	5:k:4:MET:HE3	1.82	0.60
4:m:181:ARG:HB3	5:n:4:MET:HE3	1.83	0.60
2:E:600:THR:OG1	2:E:645:LEU:O	2.17	0.60
2:G:212:ARG:HH22	2:G:1204:PRO:HD3	1.66	0.60
5:q:147:ASN:ND2	5:q:284:GLU:OE2	2.34	0.60
5:t:288:PHE:HE1	5:t:305:LYS:HE3	1.66	0.60
1:2:92:TYR:OH	1:2:110:ASP:OD2	2.18	0.60
1:4:194:THR:HA	5:q:255:ARG:HH22	1.67	0.60
2:B:610:CYS:HA	2:B:647:PHE:HE1	1.67	0.60
2:B:1228:THR:HG23	2:B:1234:SER:HB3	1.84	0.60
2:F:450:CYS:O	2:F:1122:TYR:OH	2.18	0.60
2:F:1054:CYS:SG	2:F:1055:THR:N	2.74	0.60
2:I:705:ALA:HB1	2:I:712:ASP:HB3	1.82	0.60
2:D:1141:GLN:O	5:k:233:LYS:NZ	2.35	0.60
2:I:1044:VAL:HG11	2:I:1096:VAL:HG13	1.84	0.60
2:J:694:ASN:HD22	2:J:704:SER:HB3	1.66	0.60
2:K:600:THR:OG1	2:K:645:LEU:O	2.19	0.60
2:N:631:VAL:HG13	2:N:661:LEU:HD21	1.82	0.60
2:P:1001:VAL:O	2:P:1003:HIS:N	2.30	0.60
5:r:87:THR:HB	5:r:90:LEU:HD12	1.83	0.60
4:s:40:HIS:HA	4:s:43:HIS:CD2	2.37	0.60
2:A:1309:GLN:HB2	2:A:1316:ARG:HG3	1.84	0.60
2:I:1059:ILE:HG22	2:I:1081:ILE:HG22	1.83	0.60
2:L:275:SER:HB2	2:L:280:MET:HE3	1.84	0.60
2:M:102:SER:HB3	2:M:108:THR:HG22	1.83	0.60
4:g:66:LEU:HD12	4:g:84:LEU:HD22	1.84	0.60
1:4:65:GLU:O	1:4:69:HIS:ND1	2.32	0.60
2:B:269:ILE:HG21	2:B:368:ILE:HG12	1.84	0.60
2:D:800:LEU:HD22	2:D:952:LEU:HD21	1.83	0.60
2:O:627:ILE:HD11	2:O:882:ALA:HB2	1.83	0.60
4:g:235:ILE:HA	5:i:240:ARG:HH22	1.67	0.60
2:A:88:THR:HG22	2:A:90:LYS:H	1.66	0.60
2:B:195:THR:HG21	2:B:215:ILE:HG23	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1064:VAL:HG21	4:j:1:MET:HG3	1.84	0.60
2:I:760:MET:HB3	2:I:889:HIS:HD2	1.66	0.60
2:I:1064:VAL:HG22	2:I:1077:VAL:HG12	1.84	0.60
2:N:1193:ARG:HH21	2:N:1197:SER:HB3	1.66	0.60
2:O:545:ASN:HB2	1:z:148:ILE:HG21	1.84	0.60
2:P:527:ILE:HG22	2:P:1218:ARG:HH22	1.66	0.60
5:i:14:HIS:HB3	5:i:127:LEU:HD23	1.84	0.60
5:r:282:ILE:HG22	5:r:283:ARG:HG3	1.84	0.60
2:B:422:ASN:ND2	2:C:404:ASP:O	2.34	0.60
2:D:717:PRO:HD3	2:D:782:LYS:HG2	1.84	0.60
2:H:435:ARG:HG3	2:H:1367:LEU:HD23	1.84	0.60
2:K:705:ALA:HB1	2:K:712:ASP:HB3	1.83	0.60
2:O:760:MET:HB3	2:O:889:HIS:CD2	2.37	0.60
2:O:1165:VAL:HG23	2:P:216:LEU:HD23	1.84	0.60
2:B:1156:MET:SD	2:B:1294:ARG:NH1	2.76	0.59
2:C:716:TRP:HB2	2:C:914:GLN:HE21	1.67	0.59
2:D:1250:GLU:HA	2:D:1254:TYR:HE1	1.67	0.59
2:E:127:ILE:HD12	2:E:128:PRO:HD2	1.84	0.59
5:t:66:ARG:HH21	5:t:284:GLU:HG2	1.66	0.59
1:6:16:LEU:HD13	1:6:58:LEU:HD21	1.83	0.59
2:E:888:GLU:O	2:E:919:ASN:ND2	2.35	0.59
2:F:274:VAL:HA	2:F:370:GLU:HB3	1.84	0.59
2:F:274:VAL:HG12	2:F:370:GLU:HG2	1.84	0.59
2:K:694:ASN:HD22	2:K:704:SER:HB3	1.67	0.59
2:K:895:VAL:HB	2:K:914:GLN:HB2	1.83	0.59
2:L:64:VAL:HG11	2:L:375:VAL:HG12	1.84	0.59
2:O:91:MET:HE1	2:O:1086:MET:HG2	1.84	0.59
5:h:155:LEU:HD23	5:h:197:MET:HE3	1.84	0.59
4:j:52:VAL:HG21	4:j:146:LEU:HD12	1.84	0.59
5:u:91:LEU:HA	5:u:303:ILE:HA	1.84	0.59
2:D:514:GLN:HG3	2:D:563:ASP:H	1.67	0.59
2:D:1115:ARG:O	2:D:1255:ASN:ND2	2.36	0.59
2:D:1193:ARG:HH22	2:D:1214:ILE:HD11	1.67	0.59
2:H:315:ALA:HB2	2:H:321:ILE:HD11	1.83	0.59
2:L:611:TYR:CZ	2:L:923:VAL:HG13	2.37	0.59
2:M:884:GLN:HA	3:c:66:ARG:HB2	1.84	0.59
2:P:446:LEU:HG	2:P:1021:VAL:HG22	1.84	0.59
2:P:1268:THR:HA	2:P:1271:ILE:HG22	1.85	0.59
5:r:246:SER:O	5:r:248:GLY:N	2.34	0.59
1:9:49:ARG:HH21	1:9:241:MET:HB2	1.67	0.59
2:A:733:VAL:HG12	2:A:738:PRO:HA	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:227:LEU:HD21	2:D:391:LEU:HD21	1.82	0.59
2:D:565:LEU:HD22	2:D:1177:THR:HG21	1.84	0.59
2:D:708:ASN:HA	2:D:1013:TYR:HA	1.84	0.59
2:E:106:LEU:HD12	2:E:107:PRO:HD2	1.83	0.59
2:H:79:LYS:N	2:H:303:GLY:O	2.32	0.59
2:H:214:ASN:HB3	2:M:1101:ARG:HD2	1.84	0.59
2:H:556:ILE:HG21	2:H:986:TRP:HZ3	1.67	0.59
2:J:927:PRO:HD2	2:J:952:LEU:HD11	1.84	0.59
2:L:133:ALA:N	2:L:1071:ILE:O	2.31	0.59
2:M:705:ALA:HB1	2:M:712:ASP:HB3	1.83	0.59
4:g:62:GLN:HG3	4:g:264:LEU:HD11	1.84	0.59
2:B:725:ARG:HH21	2:B:774:THR:HG22	1.68	0.59
2:C:378:ASN:HA	2:L:22:HIS:CD2	2.37	0.59
2:D:667:PRO:HD2	2:D:670:LEU:HD12	1.84	0.59
2:F:63:TRP:HH2	2:F:165:LYS:HD2	1.67	0.59
2:J:725:ARG:NH2	2:K:961:THR:OG1	2.35	0.59
2:K:1102:VAL:HG11	2:K:1106:MET:HE3	1.85	0.59
2:N:1103:ARG:HH22	2:N:1295:GLY:HA2	1.66	0.59
2:B:651:TYR:HB2	2:B:784:PHE:CG	2.38	0.59
2:D:23:VAL:HG21	2:D:36:ARG:HH21	1.67	0.59
2:F:54:PHE:HB2	2:G:91:MET:HG2	1.83	0.59
2:F:582:MET:HE1	2:F:691:PRO:HG3	1.84	0.59
2:J:1057:VAL:HG12	2:J:1083:THR:HG22	1.85	0.59
2:L:760:MET:HB3	2:L:889:HIS:HD2	1.67	0.59
2:A:45:ARG:HH21	2:B:255:LEU:HB2	1.68	0.59
2:F:420:VAL:HG23	2:F:585:ARG:HH12	1.66	0.59
2:K:1044:VAL:HG11	2:K:1096:VAL:HG13	1.83	0.59
2:O:705:ALA:HB1	2:O:712:ASP:HB3	1.83	0.59
4:m:228:CYS:O	5:o:233:LYS:NZ	2.34	0.59
5:o:37:ARG:HH12	5:o:85:VAL:HG11	1.66	0.59
4:p:165:LEU:HD23	4:p:276:LEU:HD12	1.84	0.59
5:r:109:CYS:HA	5:r:287:VAL:HG22	1.85	0.59
2:D:1101:ARG:HH11	2:E:214:ASN:HD22	1.49	0.59
2:E:705:ALA:HB1	2:E:712:ASP:HB3	1.85	0.59
2:E:1195:ARG:NH2	2:E:1216:ASP:O	2.36	0.59
2:F:554:PRO:HD3	2:F:907:LEU:HD12	1.85	0.59
2:N:600:THR:OG1	2:N:645:LEU:O	2.14	0.59
2:O:56:THR:HG22	2:P:92:LEU:HB2	1.85	0.59
5:h:8:ILE:HB	5:h:83:LEU:HB2	1.85	0.59
2:A:1277:THR:HA	2:A:1280:LYS:HE2	1.85	0.59
2:D:450:CYS:O	2:D:1122:TYR:OH	2.18	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1041:THR:N	2:D:1104:THR:OG1	2.32	0.59
2:F:800:LEU:HA	2:F:937:VAL:HG12	1.84	0.59
2:F:1068:GLU:HG3	2:F:1073:THR:HG22	1.84	0.59
2:G:1194:GLY:HA3	2:G:1230:ASN:HB2	1.83	0.59
2:J:583:ARG:NH2	2:K:572:GLU:OE2	2.36	0.59
2:J:945:ASN:ND2	2:J:947:THR:OG1	2.35	0.59
2:K:654:VAL:HG23	2:K:674:TYR:HD1	1.66	0.59
2:L:291:ILE:HG12	2:L:360:ILE:HG22	1.85	0.59
2:L:747:ARG:NH2	2:L:918:TYR:OH	2.35	0.59
2:M:489:GLY:HA2	2:M:763:ASP:HB3	1.85	0.59
2:O:315:ALA:HB2	2:O:321:ILE:HD11	1.84	0.59
4:g:72:THR:HG22	4:g:74:CYS:H	1.67	0.59
5:o:71:THR:HG21	5:o:83:LEU:HB3	1.83	0.59
2:A:862:GLU:HA	2:A:872:LEU:HD21	1.85	0.59
2:E:1176:LEU:HD21	2:E:1233:ALA:HB2	1.85	0.59
2:F:50:PHE:HB2	2:G:86:LEU:HA	1.85	0.59
2:G:1193:ARG:NH2	2:G:1214:ILE:O	2.36	0.59
2:H:1109:ARG:NH2	2:I:1225:PHE:O	2.34	0.59
2:I:1285:TYR:HA	2:I:1289:ALA:HB3	1.84	0.59
2:J:1104:THR:HG22	2:J:1106:MET:H	1.68	0.59
2:J:1195:ARG:NH1	2:J:1227:ALA:O	2.36	0.59
2:K:662:ALA:O	2:L:642:ARG:NH1	2.35	0.59
2:K:1148:ILE:HD12	5:t:192:HIS:HD2	1.67	0.59
2:N:698:LEU:HB2	2:N:706:TYR:HE2	1.68	0.59
2:O:341:ASN:OD1	2:O:342:ASP:N	2.35	0.59
5:h:95:LEU:HD22	5:h:298:LYS:HG2	1.84	0.59
4:s:213:GLN:NE2	5:t:280:ASP:OD2	2.36	0.59
1:3:105:HIS:HB3	1:3:131:SER:HA	1.85	0.58
2:D:224:LEU:HD22	2:D:1360:ILE:HD11	1.86	0.58
2:D:269:ILE:HG12	2:D:368:ILE:HD11	1.84	0.58
2:E:419:THR:HG22	2:E:421:ARG:H	1.67	0.58
2:E:808:LEU:HD23	2:E:883:VAL:HG13	1.85	0.58
2:G:295:THR:HA	2:G:356:SER:HA	1.85	0.58
2:G:970:ASP:HB3	2:G:996:ALA:HB3	1.84	0.58
2:L:1279:PHE:HD2	2:N:31:MET:HB2	1.66	0.58
2:N:1328:THR:HG21	2:N:1353:ASN:HA	1.85	0.58
2:P:1202:VAL:HG11	2:P:1210:ALA:HB2	1.85	0.58
4:g:220:ARG:HE	5:h:199:THR:HB	1.68	0.58
4:m:168:PRO:HA	4:m:273:VAL:HG12	1.85	0.58
5:n:37:ARG:HH12	5:n:85:VAL:HG21	1.67	0.58
5:t:223:ALA:HA	5:t:231:LEU:HD21	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:111:ARG:HH22	5:r:254:ALA:HA	1.68	0.58
2:G:130:GLU:HB3	2:G:1074:THR:HG22	1.84	0.58
2:P:488:MET:HE1	2:P:978:ALA:HB1	1.84	0.58
1:5:70:ASN:ND2	1:6:189:ASP:OD2	2.36	0.58
2:G:778:TRP:CD1	2:G:782:LYS:HZ2	2.21	0.58
2:K:59:ASN:HB3	2:L:95:VAL:HG22	1.85	0.58
2:L:554:PRO:HD3	2:L:907:LEU:HD12	1.86	0.58
1:8:88:ALA:HB2	1:8:109:LEU:HD22	1.85	0.58
2:A:435:ARG:CZ	2:A:1367:LEU:HB3	2.33	0.58
2:D:114:ILE:HD13	2:L:23:VAL:HG22	1.86	0.58
2:F:1042:PHE:HE1	2:F:1366:MET:HE1	1.69	0.58
2:H:202:LEU:HD12	2:H:203:ALA:HB2	1.85	0.58
2:H:748:HIS:HE1	2:H:751:VAL:HB	1.68	0.58
4:m:49:ARG:HB3	4:m:145:LEU:HD11	1.84	0.58
4:m:231:VAL:HB	5:o:233:LYS:HE3	1.85	0.58
2:A:3:ASN:HD21	2:G:1079:GLN:HE22	1.51	0.58
2:A:717:PRO:HD3	2:A:782:LYS:HG2	1.85	0.58
2:B:124:PRO:HB3	2:B:1080:ASN:HD22	1.68	0.58
2:B:1124:HIS:ND1	2:B:1125:ASP:O	2.35	0.58
2:D:514:GLN:HE21	2:D:563:ASP:HB2	1.67	0.58
2:H:719:PHE:HE2	2:H:922:CYS:HB2	1.66	0.58
2:J:1215:TYR:HD1	2:J:1236:ALA:HB2	1.69	0.58
2:K:1124:HIS:CE1	2:K:1126:GLU:HB3	2.39	0.58
2:M:945:ASN:ND2	2:M:947:THR:OG1	2.36	0.58
2:N:88:THR:HG21	5:k:15:LYS:HG3	1.84	0.58
2:P:800:LEU:HA	2:P:937:VAL:HG12	1.86	0.58
3:c:22:VAL:HG13	3:c:28:LEU:HD12	1.85	0.58
4:j:236:THR:HG22	4:j:237:ARG:HG3	1.85	0.58
5:t:48:LEU:HD21	5:t:61:LEU:HD22	1.86	0.58
5:u:113:PRO:HD3	5:u:135:PRO:HA	1.85	0.58
2:A:451:HIS:CD2	2:A:453:VAL:HG12	2.37	0.58
2:A:1247:ARG:HH12	5:i:55:THR:HG21	1.67	0.58
2:B:1290:LYS:HB3	2:B:1310:LEU:HB3	1.84	0.58
2:C:189:PRO:HD3	2:C:1286:LEU:HD21	1.84	0.58
2:F:647:PHE:HD2	2:F:653:LEU:HD13	1.69	0.58
2:G:478:LEU:HD11	2:G:509:VAL:HG13	1.85	0.58
2:H:457:PRO:HG3	2:H:907:LEU:HG	1.86	0.58
2:H:708:ASN:HB3	2:H:711:HIS:HD2	1.68	0.58
2:H:813:TYR:OH	3:X:26:LEU:O	2.21	0.58
2:J:963:PHE:HB3	2:J:966:TYR:HD2	1.69	0.58
2:K:478:LEU:HD11	2:K:509:VAL:HG13	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:486:GLU:OE2	2:P:494:ARG:NH1	2.31	0.58
1:x:49:ARG:NH2	1:x:242:CYS:SG	2.76	0.58
2:B:1057:VAL:HG12	2:B:1083:THR:HG22	1.85	0.58
2:D:647:PHE:HD1	2:D:653:LEU:HD23	1.68	0.58
2:D:1110:VAL:HA	2:D:1171:ALA:HB3	1.84	0.58
2:F:624:PHE:HB2	2:F:656:LEU:HD13	1.84	0.58
2:F:1110:VAL:HA	2:F:1171:ALA:HB3	1.84	0.58
2:G:120:SER:HB3	2:G:1084:VAL:HG12	1.86	0.58
2:G:945:ASN:HB3	2:G:948:ILE:HG22	1.85	0.58
2:G:975:LEU:HB2	2:G:980:ALA:HB2	1.85	0.58
2:G:1122:TYR:HB2	2:G:1128:ASP:HB2	1.86	0.58
2:H:558:ILE:HA	2:H:1015:ILE:HD11	1.86	0.58
2:H:853:VAL:HB	2:H:857:LEU:HD23	1.84	0.58
2:K:124:PRO:HG2	5:t:40:LEU:HD21	1.84	0.58
2:L:1230:ASN:HB3	2:L:1233:ALA:HB3	1.85	0.58
2:O:1101:ARG:HD2	2:P:214:ASN:HB3	1.84	0.58
2:A:49:HIS:O	2:G:55:GLY:N	2.21	0.58
2:A:78:ILE:HB	2:A:1058:ILE:HG12	1.85	0.58
2:A:809:VAL:HG21	3:Q:58:CYS:HB3	1.84	0.58
2:B:604:PRO:HA	2:B:925:THR:HG21	1.85	0.58
2:C:890:VAL:HA	2:C:919:ASN:HB2	1.86	0.58
2:C:1160:ASN:HB3	2:D:209:ARG:NH1	2.19	0.58
2:G:1115:ARG:HH12	2:G:1139:ARG:HD3	1.67	0.58
2:K:126:THR:HG21	5:t:39:HIS:CD2	2.38	0.58
2:L:1027:HIS:HE1	2:M:520:ASP:HB2	1.69	0.58
2:M:941:ARG:HG3	2:M:992:SER:HB3	1.85	0.58
2:N:488:MET:HE1	2:N:978:ALA:HB1	1.85	0.58
3:d:25:VAL:HA	3:d:57:LYS:HD2	1.85	0.58
2:C:667:PRO:HD2	2:C:670:LEU:HD12	1.86	0.58
2:D:451:HIS:CE1	2:D:1114:PHE:HA	2.39	0.58
2:G:739:LEU:HB3	2:G:744:ILE:HG21	1.85	0.58
2:H:608:GLU:HG2	2:H:927:PRO:HA	1.86	0.58
2:J:263:THR:HB	2:J:267:ALA:HB3	1.85	0.58
2:O:1059:ILE:HG22	2:O:1081:ILE:HG22	1.85	0.58
2:P:733:VAL:HG12	2:P:738:PRO:HA	1.86	0.58
3:S:28:LEU:HD13	3:S:32:ILE:HG21	1.85	0.58
5:l:57:GLY:N	5:l:196:ASP:OD2	2.34	0.58
2:B:800:LEU:HG	2:B:923:VAL:HG21	1.85	0.58
2:G:895:VAL:HB	2:G:914:GLN:HB2	1.86	0.58
2:M:527:ILE:HG22	2:M:1218:ARG:HH12	1.68	0.58
2:O:1304:VAL:HG13	4:s:142:ILE:HD13	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:140:VAL:HG21	1:z:158:HIS:NE2	2.19	0.58
1:z:160:LYS:H	1:z:190:ARG:HH12	1.51	0.58
2:A:725:ARG:HG3	2:A:771:TYR:HE2	1.69	0.57
2:A:861:VAL:HG13	2:A:865:ALA:HB3	1.85	0.57
2:B:488:MET:HG3	2:B:894:GLU:HB2	1.85	0.57
2:E:941:ARG:HG3	2:E:992:SER:HB3	1.86	0.57
2:F:599:THR:O	2:F:603:SER:OG	2.19	0.57
2:H:1341:ALA:HA	2:H:1364:GLN:NE2	2.18	0.57
2:I:212:ARG:HH22	2:I:1204:PRO:HD3	1.69	0.57
2:I:861:VAL:HG13	2:I:865:ALA:HB3	1.85	0.57
2:J:435:ARG:HG3	2:J:1367:LEU:HD13	1.86	0.57
2:K:361:ARG:HG2	2:K:366:THR:HG22	1.85	0.57
2:O:816:ALA:HB2	2:O:852:ALA:HB1	1.85	0.57
2:P:747:ARG:NH2	2:P:918:TYR:OH	2.37	0.57
2:A:627:ILE:HD11	2:A:882:ALA:HB2	1.86	0.57
2:A:1037:VAL:HG21	2:A:1262:CYS:HB2	1.86	0.57
2:B:419:THR:HB	2:B:422:ASN:HD22	1.69	0.57
2:B:686:ARG:HA	2:B:690:LEU:HD11	1.84	0.57
2:B:1217:HIS:NE2	2:B:1235:GLN:OE1	2.37	0.57
2:C:1199:MET:HB3	2:C:1275:ASN:HB3	1.86	0.57
2:E:653:LEU:O	2:E:657:ILE:HG12	2.03	0.57
2:F:311:ASN:HB3	2:F:321:ILE:HD12	1.86	0.57
2:H:1327:THR:HA	2:H:1355:VAL:HG22	1.85	0.57
2:I:56:THR:HG22	2:J:92:LEU:HB2	1.85	0.57
2:J:605:ASN:HB2	2:J:642:ARG:HE	1.69	0.57
2:K:21:THR:H	2:O:200:ALA:HB1	1.69	0.57
2:L:534:HIS:HD2	2:L:537:PHE:HD1	1.51	0.57
2:N:56:THR:HG22	2:O:92:LEU:HB2	1.86	0.57
5:t:274:MET:O	5:t:278:LEU:N	2.34	0.57
5:u:109:CYS:HA	5:u:287:VAL:HG22	1.86	0.57
2:C:254:ILE:HD11	2:C:1088:LEU:HG	1.84	0.57
2:D:212:ARG:HH12	2:D:1204:PRO:HD3	1.68	0.57
2:D:315:ALA:HB2	2:D:321:ILE:HD11	1.84	0.57
2:D:1182:ASP:HA	2:D:1186:PHE:HD2	1.70	0.57
2:E:1103:ARG:HD3	2:E:1168:GLN:HE22	1.68	0.57
2:F:303:GLY:HA2	2:F:348:GLY:HA3	1.85	0.57
2:F:1109:ARG:NH1	2:F:1110:VAL:O	2.37	0.57
2:H:216:LEU:HD13	2:H:1200:LEU:HD12	1.86	0.57
2:J:4:TRP:O	2:J:6:ALA:N	2.37	0.57
2:J:56:THR:HG22	2:K:92:LEU:HB2	1.86	0.57
2:O:574:ARG:NH2	2:O:1010:ALA:O	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:534:HIS:HD2	2:P:537:PHE:HD2	1.51	0.57
4:j:165:LEU:HD23	4:j:276:LEU:HD12	1.86	0.57
1:8:63:TYR:HE1	1:8:221:GLU:HG3	1.69	0.57
1:8:103:ARG:HA	1:8:106:LEU:HD12	1.87	0.57
2:F:870:THR:HG23	2:F:874:GLN:HB2	1.87	0.57
2:F:945:ASN:HB3	2:F:948:ILE:HG22	1.87	0.57
2:H:1195:ARG:NH1	2:H:1227:ALA:O	2.38	0.57
2:K:488:MET:HE1	2:K:978:ALA:HB1	1.87	0.57
2:P:224:LEU:HD22	2:P:1360:ILE:HD11	1.85	0.57
2:P:264:SER:OG	2:P:294:GLU:OE2	2.20	0.57
4:m:86:LEU:HD11	4:m:111:ALA:HB1	1.87	0.57
5:n:4:MET:HB2	5:n:37:ARG:HH21	1.68	0.57
5:n:37:ARG:NH1	5:n:85:VAL:HG21	2.20	0.57
5:r:113:PRO:HD3	5:r:135:PRO:HA	1.85	0.57
4:s:78:ARG:HH11	5:u:178:ARG:HD2	1.69	0.57
1:x:6:ILE:HB	1:x:50:THR:HG23	1.86	0.57
1:y:4:GLN:H	1:y:57:MET:HE2	1.69	0.57
2:B:748:HIS:HA	1:w:256:HIS:CE1	2.39	0.57
2:F:127:ILE:HD11	2:G:101:ALA:HA	1.85	0.57
2:F:606:TYR:HH	2:F:610:CYS:HG	1.46	0.57
2:G:139:LEU:HG	2:G:157:MET:HE1	1.85	0.57
2:G:573:LEU:HA	2:G:576:TRP:HD1	1.70	0.57
2:G:733:VAL:HG23	2:G:894:GLU:HB3	1.86	0.57
2:I:419:THR:HG22	2:I:421:ARG:H	1.69	0.57
2:J:756:ARG:HH21	3:Z:66:ARG:HH12	1.50	0.57
2:K:53:ILE:HG12	2:L:90:LYS:HD2	1.86	0.57
2:K:1115:ARG:HH22	2:K:1138:GLU:HB3	1.69	0.57
2:L:507:ARG:HE	2:L:512:MET:HB3	1.69	0.57
2:L:748:HIS:O	2:L:756:ARG:NH1	2.38	0.57
2:L:1104:THR:HG22	2:L:1106:MET:H	1.67	0.57
4:m:165:LEU:HD23	4:m:276:LEU:HD12	1.87	0.57
5:n:59:VAL:HG22	5:n:150:LEU:HD13	1.85	0.57
2:B:82:ASP:OD2	2:B:1060:ASN:ND2	2.38	0.57
2:B:87:THR:HG21	5:h:15:LYS:HB3	1.87	0.57
2:B:227:LEU:HD22	2:B:1360:ILE:HD13	1.85	0.57
2:C:21:THR:HA	2:M:200:ALA:HB1	1.87	0.57
2:D:32:PHE:HZ	2:N:1088:LEU:HA	1.70	0.57
2:D:422:ASN:ND2	2:E:404:ASP:O	2.38	0.57
2:H:798:CYS:HB2	2:H:945:ASN:H	1.68	0.57
2:J:311:ASN:HB3	2:J:321:ILE:HD12	1.86	0.57
2:K:24:LYS:HZ1	2:O:97:VAL:HG21	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:216:LEU:HD13	2:M:1200:LEU:HD12	1.87	0.57
2:P:1035:THR:HG21	2:P:1176:LEU:HD12	1.86	0.57
2:P:1065:THR:HG23	2:P:1076:HIS:HB2	1.87	0.57
5:n:216:MET:SD	5:o:212:SER:OG	2.58	0.57
4:p:90:ARG:HG3	4:p:200:PRO:HG3	1.85	0.57
4:s:220:ARG:HG2	4:s:227:ARG:HH21	1.69	0.57
2:E:199:ASN:HA	2:E:202:LEU:HD12	1.86	0.57
2:G:690:LEU:HD13	2:G:693:LEU:HD22	1.87	0.57
2:H:212:ARG:HD3	2:H:1200:LEU:O	2.04	0.57
4:s:167:ILE:HD13	4:s:204:VAL:HG11	1.86	0.57
1:9:63:TYR:HE1	1:9:221:GLU:HG3	1.70	0.57
2:B:654:VAL:HA	2:B:657:ILE:HG22	1.87	0.57
2:B:991:PHE:HE1	2:B:1011:MET:HB3	1.69	0.57
2:B:1195:ARG:NH1	2:B:1227:ALA:O	2.37	0.57
2:D:1069:ARG:O	2:D:1071:ILE:N	2.37	0.57
2:E:1245:ASN:O	2:E:1249:ARG:N	2.32	0.57
2:F:1157:SER:HB2	2:F:1258:PHE:HZ	1.70	0.57
2:G:800:LEU:HA	2:G:937:VAL:HG12	1.86	0.57
2:I:315:ALA:HB2	2:I:321:ILE:HD11	1.87	0.57
2:P:605:ASN:HB3	2:P:642:ARG:HE	1.70	0.57
1:3:88:ALA:HB2	1:3:109:LEU:HD22	1.84	0.57
1:5:118:VAL:O	1:5:214:ARG:NH1	2.38	0.57
2:D:1035:THR:HG23	2:D:1176:LEU:HD11	1.86	0.57
2:F:219:PHE:HB3	2:F:223:MET:HE2	1.86	0.57
2:H:748:HIS:CE1	2:H:751:VAL:HB	2.40	0.57
2:I:66:PHE:HA	2:I:176:ILE:HD11	1.87	0.57
2:J:359:VAL:HG12	2:J:368:ILE:HD13	1.86	0.57
2:J:654:VAL:HG23	2:J:674:TYR:HD2	1.69	0.57
2:J:901:HIS:HA	2:J:904:ARG:HG2	1.86	0.57
2:L:510:ASN:HD21	2:L:982:GLU:HG2	1.70	0.57
3:b:73:THR:OG1	3:b:75:ARG:O	2.23	0.57
2:C:941:ARG:NH1	2:C:989:SER:O	2.38	0.57
2:D:1064:VAL:HG22	2:D:1077:VAL:HG12	1.87	0.57
2:E:158:HIS:CD2	2:F:337:PRO:HB3	2.40	0.57
2:E:484:GLN:HB3	2:E:977:THR:HB	1.87	0.57
2:G:291:ILE:HG13	2:G:360:ILE:HG22	1.85	0.57
2:H:263:THR:HB	2:H:267:ALA:HB3	1.87	0.57
2:M:747:ARG:NH2	2:M:918:TYR:OH	2.38	0.57
2:O:667:PRO:HD2	2:O:670:LEU:HD12	1.87	0.57
3:Q:14:ARG:O	3:Q:18:HIS:ND1	2.36	0.57
5:h:190:ASP:O	5:h:192:HIS:N	2.36	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:i:77:GLU:OE1	5:i:80:GLN:NE2	2.38	0.57
5:i:88:HIS:HE1	5:i:305:LYS:HG3	1.70	0.57
5:q:103:GLU:HG2	5:q:178:ARG:HH12	1.70	0.57
1:3:277:ILE:HG13	3:c:42:THR:HB	1.87	0.56
2:D:7:LEU:HD12	2:N:92:LEU:HB3	1.87	0.56
2:E:1290:LYS:HE3	2:E:1312:GLU:HB3	1.86	0.56
2:F:681:LEU:HB3	2:F:780:LEU:HD22	1.86	0.56
2:K:37:ILE:HG22	2:O:114:ILE:HG12	1.86	0.56
2:K:1165:VAL:HG21	2:L:1223:GLN:H	1.70	0.56
1:z:66:LEU:HB3	1:z:217:TRP:CH2	2.40	0.56
2:H:527:ILE:HG22	2:H:1218:ARG:HH12	1.70	0.56
2:J:173:ARG:HH22	2:K:98:PRO:HB2	1.69	0.56
2:J:482:ARG:NH1	2:J:544:GLU:O	2.38	0.56
2:M:196:LEU:O	2:M:200:ALA:HB2	2.04	0.56
2:M:413:LYS:HD3	2:M:1335:THR:HG21	1.86	0.56
2:N:945:ASN:ND2	2:N:947:THR:OG1	2.38	0.56
5:k:60:ARG:HB3	5:k:192:HIS:ND1	2.21	0.56
4:m:194:ASP:O	4:m:233:ARG:NH1	2.38	0.56
5:r:216:MET:HE1	5:r:238:LEU:HB3	1.86	0.56
1:3:63:TYR:HE1	1:3:221:GLU:HG3	1.69	0.56
2:A:220:LYS:HE3	2:A:1319:GLN:HG2	1.88	0.56
2:A:1036:ALA:HB1	2:A:1171:ALA:HB1	1.87	0.56
2:B:95:VAL:HA	2:G:58:CYS:HB3	1.86	0.56
2:B:606:TYR:OH	2:B:649:HIS:ND1	2.39	0.56
2:B:684:VAL:HG22	2:B:1006:MET:HE1	1.87	0.56
2:C:130:GLU:HA	2:C:1074:THR:HA	1.88	0.56
2:E:804:LEU:HA	2:E:807:LEU:HB3	1.87	0.56
2:F:717:PRO:HG3	2:F:781:GLN:HG3	1.86	0.56
2:G:275:SER:HB2	2:G:280:MET:HE3	1.86	0.56
2:G:1041:THR:N	2:G:1104:THR:OG1	2.37	0.56
2:H:404:ASP:HB3	2:M:421:ARG:HD2	1.87	0.56
2:I:662:ALA:HB1	2:J:605:ASN:HB3	1.87	0.56
2:J:315:ALA:HB2	2:J:321:ILE:HD11	1.86	0.56
2:J:513:LYS:NZ	2:J:532:GLU:OE2	2.39	0.56
2:J:556:ILE:HG21	2:J:986:TRP:CZ3	2.40	0.56
2:K:1173:GLU:O	2:K:1244:TYR:OH	2.22	0.56
2:M:188:PRO:HA	2:M:1286:LEU:HD21	1.87	0.56
2:M:556:ILE:HG21	2:M:986:TRP:HZ3	1.70	0.56
2:N:66:PHE:HA	2:N:176:ILE:HD11	1.86	0.56
2:N:739:LEU:HD21	2:N:766:LEU:HD11	1.86	0.56
5:k:156:PHE:HE2	5:k:165:VAL:HA	1.70	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:29:VAL:HG11	1:v:179:PHE:HE2	1.69	0.56
1:z:124:ILE:HD13	1:z:127:ARG:HH21	1.70	0.56
1:7:172:GLU:OE1	1:7:175:ARG:NH2	2.38	0.56
2:A:798:CYS:SG	2:A:799:GLY:N	2.78	0.56
2:B:83:LEU:HB3	2:B:85:LYS:HG2	1.88	0.56
2:E:804:LEU:HD23	2:E:807:LEU:HD23	1.87	0.56
2:F:420:VAL:HG21	2:F:576:TRP:HB3	1.87	0.56
2:G:667:PRO:HD2	2:G:670:LEU:HD12	1.86	0.56
2:K:687:ILE:O	2:K:1013:TYR:OH	2.23	0.56
2:N:791:ALA:O	2:N:1000:ASN:ND2	2.39	0.56
2:O:1336:LYS:HE3	2:O:1355:VAL:HG11	1.88	0.56
4:g:223:PHE:HB3	4:g:226:GLU:HB2	1.87	0.56
5:t:286:VAL:HG23	5:t:304:PHE:HE2	1.69	0.56
1:3:28:ASP:HA	1:3:176:ARG:HB3	1.87	0.56
1:5:4:GLN:H	1:5:57:MET:HE2	1.71	0.56
2:C:931:ILE:HD11	2:C:952:LEU:HA	1.88	0.56
2:D:478:LEU:CD1	2:D:512:MET:SD	2.91	0.56
2:E:1059:ILE:HG22	2:E:1081:ILE:HG22	1.88	0.56
2:E:1250:GLU:HA	2:E:1254:TYR:HE1	1.69	0.56
2:F:488:MET:HE1	2:F:978:ALA:HB1	1.87	0.56
2:F:507:ARG:NH2	2:F:511:GLU:HB3	2.20	0.56
2:G:647:PHE:CD1	2:G:653:LEU:HD12	2.40	0.56
2:H:196:LEU:O	2:H:200:ALA:N	2.39	0.56
2:H:382:LYS:HZ3	2:I:202:LEU:HD23	1.70	0.56
2:I:429:TYR:HB3	2:I:437:VAL:HG13	1.87	0.56
2:K:536:PHE:O	2:K:555:ARG:N	2.33	0.56
2:L:1168:GLN:HG3	2:M:210:ILE:HD11	1.87	0.56
2:N:760:MET:HB3	2:N:889:HIS:HD2	1.70	0.56
2:O:1064:VAL:HG13	2:O:1075:TYR:HB3	1.87	0.56
2:O:1195:ARG:NH1	2:O:1227:ALA:O	2.38	0.56
2:P:126:THR:HG22	2:P:128:PRO:HD3	1.87	0.56
2:P:485:GLN:OE1	2:P:913:ARG:NH1	2.39	0.56
2:P:801:GLY:HA3	2:P:890:VAL:HG11	1.87	0.56
5:k:223:ALA:HA	5:k:231:LEU:HD21	1.86	0.56
1:6:118:VAL:O	1:6:214:ARG:NH1	2.38	0.56
2:E:535:PRO:HD2	2:E:1239:LEU:HD23	1.88	0.56
2:H:53:ILE:HG12	2:I:90:LYS:HD2	1.87	0.56
2:H:698:LEU:HB2	2:H:706:TYR:HE2	1.69	0.56
2:N:945:ASN:HB3	2:N:948:ILE:HG22	1.88	0.56
2:O:450:CYS:O	2:O:1122:TYR:OH	2.22	0.56
2:O:1062:PRO:HG2	4:s:33:ILE:HA	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:391:LEU:HD23	2:P:1322:LEU:HD12	1.88	0.56
5:o:8:ILE:HB	5:o:83:LEU:HB2	1.87	0.56
5:o:210:LEU:HB2	5:o:271:LEU:HD13	1.87	0.56
5:t:13:ASP:H	5:t:43:HIS:CE1	2.24	0.56
1:5:89:ARG:NH1	4:p:235:ILE:O	2.39	0.56
2:C:148:LEU:HD11	2:L:48:ILE:HG21	1.88	0.56
2:D:139:LEU:HD22	2:D:160:VAL:HG21	1.87	0.56
2:D:495:ILE:HG23	2:D:496:PRO:HD3	1.86	0.56
2:E:931:ILE:HD11	2:E:952:LEU:HA	1.87	0.56
2:F:1244:TYR:HB2	2:F:1266:PHE:HD2	1.69	0.56
2:H:747:ARG:NH2	2:H:918:TYR:OH	2.38	0.56
2:J:598:LYS:HB3	2:J:792:MET:HE3	1.87	0.56
2:J:730:VAL:HG13	2:J:895:VAL:HG13	1.88	0.56
2:K:475:MET:SD	2:K:1218:ARG:NH2	2.79	0.56
2:L:115:MET:HE1	2:N:8:GLU:HG2	1.88	0.56
2:M:79:LYS:N	2:M:303:GLY:O	2.39	0.56
2:M:853:VAL:HB	2:M:857:LEU:HD23	1.87	0.56
5:o:173:GLN:O	5:o:184:ILE:N	2.37	0.56
4:p:155:TYR:HA	4:p:163:PHE:H	1.71	0.56
4:s:47:THR:HG22	4:s:149:VAL:HA	1.86	0.56
1:O:172:GLU:OE2	1:O:175:ARG:NH2	2.39	0.56
2:A:667:PRO:HD2	2:A:670:LEU:HD12	1.87	0.56
2:B:66:PHE:HA	2:B:176:ILE:HD11	1.87	0.56
2:C:941:ARG:NH1	2:C:992:SER:OG	2.39	0.56
2:D:451:HIS:HB3	2:D:453:VAL:HG12	1.87	0.56
2:F:61:LEU:HD13	2:G:96:GLN:HE21	1.71	0.56
2:I:54:PHE:HB2	2:J:91:MET:HG2	1.87	0.56
2:I:808:LEU:HD23	2:I:883:VAL:HG13	1.86	0.56
2:J:485:GLN:HE22	2:J:913:ARG:HH12	1.54	0.56
2:K:1122:TYR:HB2	2:K:1128:ASP:HB2	1.88	0.56
2:M:609:LEU:HD13	2:M:860:LEU:HB3	1.88	0.56
2:O:439:LYS:NZ	2:P:519:THR:OG1	2.38	0.56
2:P:1059:ILE:HG22	2:P:1081:ILE:HG22	1.88	0.56
5:h:151:LEU:HD22	5:h:281:LEU:HD11	1.88	0.56
1:v:102:ALA:HB2	1:v:138:MET:HE1	1.86	0.56
1:w:3:LEU:HD12	1:w:17:VAL:HG22	1.88	0.56
1:1:126:GLU:OE2	1:1:215:ARG:NH2	2.39	0.56
1:3:43:GLU:HG2	1:3:44:LYS:HG2	1.88	0.56
2:A:988:ARG:HB3	2:A:990:PRO:HD2	1.86	0.56
2:B:800:LEU:HA	2:B:937:VAL:HG12	1.88	0.56
2:C:127:ILE:HD11	2:D:101:ALA:HA	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:605:ASN:OD1	2:C:642:ARG:NH2	2.39	0.56
2:E:642:ARG:HE	2:E:644:LEU:HD21	1.71	0.56
2:F:537:PHE:HA	2:F:554:PRO:HA	1.87	0.56
2:F:1046:MET:HG2	2:F:1096:VAL:HA	1.87	0.56
2:G:554:PRO:HD3	2:G:907:LEU:HD12	1.87	0.56
2:G:555:ARG:HG3	2:G:560:ASN:HB2	1.87	0.56
2:G:1104:THR:HG22	2:G:1106:MET:H	1.70	0.56
2:I:945:ASN:HD22	2:I:948:ILE:HG12	1.71	0.56
2:K:311:ASN:HB3	2:K:321:ILE:HD12	1.86	0.56
2:L:1185:TYR:OH	2:L:1191:ASN:O	2.16	0.56
2:M:434:ASP:HA	2:M:1367:LEU:HD21	1.87	0.56
2:O:927:PRO:HB2	2:O:930:LEU:HB2	1.87	0.56
5:h:77:GLU:OE1	5:h:80:GLN:NE2	2.39	0.56
4:m:255:LEU:HD22	5:n:1:MET:HE2	1.87	0.56
4:p:181:ARG:HH12	5:q:4:MET:HA	1.71	0.56
1:y:73:LEU:O	1:y:77:LEU:N	2.36	0.56
1:5:105:HIS:O	1:5:131:SER:OG	2.23	0.56
2:B:85:LYS:HB3	2:B:88:THR:HG22	1.86	0.56
2:B:723:LEU:HD13	2:B:727:MET:HE1	1.87	0.56
2:C:339:LEU:HD12	2:C:340:PRO:HD2	1.87	0.56
2:D:387:ARG:HH21	2:D:1312:GLU:HG2	1.71	0.56
2:D:1241:ASP:OD2	2:D:1248:HIS:ND1	2.35	0.56
2:F:445:ALA:HA	2:F:1110:VAL:HG21	1.88	0.56
2:F:707:VAL:HG22	2:F:1019:SER:HA	1.86	0.56
2:G:970:ASP:HB2	2:G:993:ARG:HA	1.88	0.56
2:I:212:ARG:NH2	2:I:1202:VAL:O	2.39	0.56
2:J:435:ARG:N	2:J:1367:LEU:HD11	2.21	0.56
2:J:1172:CYS:SG	2:J:1173:GLU:N	2.77	0.56
2:K:273:MET:HE3	2:K:1047:LEU:HD13	1.87	0.56
2:K:1039:THR:HB	2:K:1261:PRO:HB3	1.88	0.56
2:L:805:LYS:NZ	3:b:56:ASP:OD2	2.33	0.56
2:M:208:ASN:HB2	2:M:211:GLN:HG2	1.88	0.56
2:O:78:ILE:HB	2:O:1058:ILE:HG22	1.88	0.56
2:P:1244:TYR:HA	2:P:1249:ARG:HH21	1.71	0.56
2:C:315:ALA:HB2	2:C:321:ILE:HD11	1.88	0.55
2:C:857:LEU:HD21	2:C:876:CYS:HB2	1.87	0.55
2:E:1182:ASP:HA	2:E:1186:PHE:HD2	1.70	0.55
2:G:70:GLY:HA3	2:G:357:MET:HE1	1.87	0.55
2:I:1104:THR:HG22	2:I:1106:MET:H	1.71	0.55
2:I:1289:ALA:O	2:I:1316:ARG:NH1	2.36	0.55
2:L:421:ARG:HD3	2:M:404:ASP:HB3	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:433:ARG:NH1	2:L:1165:VAL:O	2.37	0.55
2:L:486:GLU:OE2	2:L:494:ARG:NH1	2.39	0.55
2:L:1075:TYR:OH	4:j:19:GLU:OE2	2.23	0.55
2:M:661:LEU:HD23	2:M:666:LEU:HD11	1.87	0.55
2:O:681:LEU:HB3	2:O:780:LEU:HD22	1.87	0.55
4:m:72:THR:HG22	4:m:74:CYS:H	1.70	0.55
5:n:234:CYS:HB3	5:o:206:MET:HE3	1.88	0.55
5:u:123:ASN:OD1	5:u:124:LEU:N	2.39	0.55
1:6:49:ARG:NH2	1:6:238:GLU:O	2.38	0.55
1:8:184:LEU:HG	1:8:186:LEU:H	1.69	0.55
2:B:535:PRO:HD3	2:B:1232:TRP:CD1	2.42	0.55
2:D:360:ILE:HD13	2:D:369:MET:HE2	1.87	0.55
2:G:180:LEU:HD23	2:G:384:PRO:HG2	1.87	0.55
2:G:524:VAL:O	2:G:1218:ARG:NH1	2.39	0.55
2:H:631:VAL:HG13	2:H:661:LEU:HD21	1.87	0.55
2:J:363:GLY:O	2:J:365:LYS:N	2.34	0.55
2:L:259:THR:HG22	2:L:352:LEU:HD11	1.88	0.55
2:M:556:ILE:HG21	2:M:986:TRP:CZ3	2.41	0.55
2:M:963:PHE:HB3	2:M:966:TYR:HD2	1.70	0.55
2:N:76:HIS:HB3	2:N:1056:SER:HA	1.87	0.55
2:O:130:GLU:HB3	2:O:1074:THR:HG22	1.88	0.55
2:O:642:ARG:HB3	2:O:644:LEU:HG	1.89	0.55
4:j:188:ILE:HG12	4:j:248:ILE:HA	1.88	0.55
4:m:227:ARG:NH1	4:m:290:VAL:O	2.39	0.55
1:x:194:THR:HG22	1:x:196:LEU:H	1.69	0.55
2:A:1324:ILE:HA	2:A:1358:GLU:HG2	1.88	0.55
2:A:1327:THR:HG22	2:A:1355:VAL:HG22	1.87	0.55
2:B:601:VAL:HG21	2:B:789:MET:HE1	1.88	0.55
2:C:716:TRP:HB3	2:C:916:VAL:HG11	1.89	0.55
2:C:1004:SER:HA	2:C:1007:THR:HG22	1.88	0.55
2:E:1124:HIS:CE1	2:E:1126:GLU:HB3	2.42	0.55
2:G:642:ARG:HE	2:G:644:LEU:HD21	1.71	0.55
2:L:1132:ARG:HH22	2:L:1140:PRO:HD2	1.70	0.55
2:M:83:LEU:O	5:o:79:ASN:ND2	2.39	0.55
2:P:1110:VAL:HA	2:P:1171:ALA:HB3	1.88	0.55
2:P:1193:ARG:HH21	2:P:1197:SER:HB3	1.71	0.55
5:i:163:GLU:HG2	1:v:111:ARG:HH12	1.70	0.55
4:s:168:PRO:HA	4:s:273:VAL:HG12	1.88	0.55
2:B:976:PRO:O	2:B:980:ALA:N	2.39	0.55
2:C:1075:TYR:OH	4:m:19:GLU:OE2	2.25	0.55
2:F:600:THR:OG1	2:F:645:LEU:O	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1293:ILE:HD11	2:F:1300:GLN:HB3	1.89	0.55
2:J:695:ASN:H	2:J:703:LEU:HD23	1.69	0.55
2:L:384:PRO:O	2:L:387:ARG:HG3	2.06	0.55
2:M:277:ALA:HB2	2:M:371:ASN:HD21	1.71	0.55
5:o:13:ASP:H	5:o:43:HIS:CE1	2.24	0.55
4:p:78:ARG:HH11	5:r:178:ARG:HD2	1.70	0.55
2:C:120:SER:HB3	2:C:1084:VAL:HG12	1.89	0.55
2:C:899:LEU:HB3	2:C:903:GLN:HE21	1.71	0.55
2:D:180:LEU:HD23	2:D:384:PRO:HG2	1.88	0.55
2:D:705:ALA:HA	2:D:711:HIS:HB2	1.89	0.55
2:D:873:LEU:O	2:D:877:ARG:NH1	2.38	0.55
2:E:489:GLY:HA2	2:E:763:ASP:HB3	1.89	0.55
2:E:556:ILE:HG21	2:E:986:TRP:CZ3	2.42	0.55
2:E:1169:LYS:HE3	2:E:1299:THR:HG22	1.89	0.55
2:H:606:TYR:OH	2:H:610:CYS:SG	2.53	0.55
2:L:945:ASN:ND2	2:L:947:THR:OG1	2.40	0.55
2:M:478:LEU:HD13	2:M:512:MET:HE2	1.88	0.55
2:M:647:PHE:HD1	2:M:653:LEU:HD13	1.71	0.55
2:N:813:TYR:OH	3:d:26:LEU:O	2.21	0.55
2:O:793:THR:HG21	2:O:797:ALA:HB2	1.88	0.55
5:r:145:GLU:HG2	5:r:177:PHE:HZ	1.71	0.55
2:A:653:LEU:O	2:A:657:ILE:HG12	2.06	0.55
2:A:1310:LEU:HD12	2:A:1313:ASN:ND2	2.22	0.55
2:D:1217:HIS:NE2	2:D:1235:GLN:HG2	2.21	0.55
2:D:1279:PHE:CD2	2:L:31:MET:HB2	2.40	0.55
2:I:518:VAL:HB	2:I:1179:VAL:HG11	1.88	0.55
2:I:662:ALA:HA	2:I:671:LEU:HD11	1.88	0.55
2:I:693:LEU:HB3	2:I:1022:LEU:HD11	1.87	0.55
2:J:487:PRO:HG2	2:J:494:ARG:HH22	1.71	0.55
2:K:698:LEU:HD23	2:K:1127:VAL:HG22	1.87	0.55
2:N:812:PHE:HB2	3:d:65:LEU:HD21	1.88	0.55
5:u:32:VAL:HG21	5:u:73:MET:HE2	1.86	0.55
2:A:433:ARG:NH1	2:A:1104:THR:O	2.40	0.55
2:A:774:THR:O	2:A:778:TRP:N	2.34	0.55
2:C:609:LEU:HD23	2:C:864:VAL:HG11	1.88	0.55
2:D:801:GLY:HA3	2:D:890:VAL:HG11	1.89	0.55
2:I:488:MET:HE1	2:I:978:ALA:HB1	1.87	0.55
2:L:274:VAL:HG12	2:L:370:GLU:HB3	1.87	0.55
2:O:512:MET:HE1	2:O:527:ILE:HD11	1.89	0.55
4:p:175:TRP:HE1	4:p:205:LEU:HD13	1.71	0.55
5:t:203:SER:HB3	5:t:278:LEU:HB2	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:182:LYS:HG2	1:v:184:LEU:HG	1.88	0.55
2:A:600:THR:OG1	2:A:645:LEU:O	2.24	0.55
2:A:1180:THR:C	2:A:1182:ASP:H	2.13	0.55
2:B:733:VAL:HA	2:B:738:PRO:HA	1.89	0.55
2:F:514:GLN:HE22	2:F:990:PRO:HD3	1.71	0.55
2:I:626:LEU:HD13	2:I:881:LEU:HB3	1.87	0.55
2:J:805:LYS:H	2:J:889:HIS:HE1	1.55	0.55
2:K:26:SER:HA	2:O:1279:PHE:HE2	1.71	0.55
5:r:214:LEU:HD23	5:r:268:LEU:HD23	1.89	0.55
4:s:11:ARG:HH21	5:u:4:MET:HG2	1.72	0.55
1:3:172:GLU:OE2	1:3:175:ARG:NH2	2.39	0.55
1:7:99:ARG:NH2	5:t:262:ASP:OD2	2.40	0.55
2:C:212:ARG:HH22	2:C:1203:ASP:HA	1.72	0.55
2:D:23:VAL:HG21	2:D:36:ARG:NH2	2.21	0.55
2:D:1071:ILE:HG21	5:k:93:THR:HB	1.88	0.55
2:G:216:LEU:HD21	2:G:1198:CYS:HB3	1.89	0.55
2:G:1044:VAL:HG13	2:G:1096:VAL:HG13	1.89	0.55
2:H:705:ALA:HB1	2:H:712:ASP:HB3	1.88	0.55
2:H:1202:VAL:HG11	2:H:1210:ALA:HB2	1.89	0.55
2:I:617:VAL:HG12	2:I:619:GLY:H	1.71	0.55
2:K:583:ARG:NH2	2:L:572:GLU:OE2	2.39	0.55
2:M:145:GLY:O	2:M:150:LYS:NZ	2.39	0.55
2:N:554:PRO:HD3	2:N:907:LEU:HD12	1.88	0.55
2:P:618:HIS:O	2:P:722:HIS:NE2	2.40	0.55
5:i:119:LEU:HB2	5:i:122:GLU:HG2	1.89	0.55
5:n:32:VAL:O	5:n:71:THR:OG1	2.25	0.55
5:n:198:LYS:HE3	5:o:231:LEU:HB2	1.89	0.55
5:o:72:LEU:HD21	5:o:94:VAL:HG12	1.87	0.55
1:1:235:LEU:HD23	1:1:254:LEU:HD21	1.88	0.55
2:B:626:LEU:HD23	3:R:75:ARG:HB3	1.88	0.55
2:B:707:VAL:HG12	2:B:1019:SER:HA	1.89	0.55
2:C:449:LEU:HD13	2:C:1020:LEU:HD21	1.88	0.55
2:C:491:ALA:HA	2:C:494:ARG:HG2	1.89	0.55
2:F:272:VAL:HG23	2:F:368:ILE:HB	1.88	0.55
2:F:657:ILE:HG23	2:F:661:LEU:HD23	1.89	0.55
2:F:1042:PHE:CE1	2:F:1366:MET:HE1	2.41	0.55
2:G:212:ARG:NH2	2:G:1202:VAL:O	2.40	0.55
2:I:435:ARG:NH2	2:I:1364:GLN:OE1	2.40	0.55
2:K:127:ILE:HD11	2:L:101:ALA:HA	1.89	0.55
2:K:717:PRO:HG2	2:K:720:VAL:HG22	1.89	0.55
2:O:433:ARG:NH2	2:O:1166:HIS:O	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:196:LEU:O	2:P:200:ALA:N	2.40	0.55
5:h:119:LEU:HG	5:h:121:ARG:HB3	1.89	0.55
5:u:8:ILE:HB	5:u:83:LEU:HB2	1.89	0.55
1:7:134:ILE:HG22	1:7:138:MET:HE3	1.89	0.54
2:A:747:ARG:HH22	2:A:887:GLY:HA2	1.71	0.54
2:B:633:ARG:HD3	2:B:867:ASP:H	1.72	0.54
2:B:800:LEU:HD22	2:B:952:LEU:HD21	1.88	0.54
2:B:873:LEU:O	2:B:877:ARG:HG2	2.07	0.54
2:D:1169:LYS:HE3	2:D:1299:THR:HG22	1.88	0.54
2:E:174:GLY:HA3	2:F:101:ALA:HB3	1.89	0.54
2:F:1001:VAL:HG12	2:F:1003:HIS:H	1.72	0.54
2:G:180:LEU:HD21	2:G:385:LEU:HG	1.87	0.54
2:G:431:LEU:HA	2:G:436:ALA:O	2.07	0.54
2:H:1102:VAL:HG11	2:H:1106:MET:HE3	1.89	0.54
2:I:698:LEU:HB2	2:I:706:TYR:HE2	1.72	0.54
2:K:1331:ALA:HB2	2:L:407:TYR:HB2	1.89	0.54
2:M:315:ALA:HB2	2:M:321:ILE:HD11	1.89	0.54
2:M:535:PRO:HB3	2:M:1232:TRP:CZ2	2.42	0.54
2:P:43:PRO:O	2:P:45:ARG:N	2.40	0.54
2:P:556:ILE:O	2:P:1015:ILE:N	2.33	0.54
5:o:59:VAL:HG23	5:o:197:MET:HE1	1.88	0.54
1:x:129:LEU:HD13	1:x:154:ILE:HG21	1.90	0.54
1:6:111:ARG:HH12	5:r:254:ALA:HA	1.73	0.54
2:B:448:THR:HG23	2:B:1113:LEU:HD13	1.89	0.54
2:C:529:LEU:O	2:C:1235:GLN:NE2	2.40	0.54
2:C:1037:VAL:HG23	2:C:1172:CYS:HB3	1.89	0.54
2:E:1032:PHE:HA	2:E:1178:PRO:HD3	1.88	0.54
2:G:941:ARG:NH1	2:G:988:ARG:O	2.40	0.54
2:O:558:ILE:HA	2:O:1015:ILE:HD11	1.89	0.54
4:g:211:HIS:CD2	5:h:66:ARG:HB3	2.42	0.54
4:j:248:ILE:HG13	4:j:289:PHE:CE1	2.43	0.54
5:l:151:LEU:HD21	5:l:281:LEU:HD13	1.89	0.54
1:v:16:LEU:HD13	1:v:58:LEU:HD21	1.89	0.54
1:v:81:GLU:HB2	1:v:114:PHE:HE2	1.73	0.54
2:A:1224:THR:HG22	2:A:1226:ALA:H	1.70	0.54
2:C:25:THR:O	2:C:29:GLU:HG2	2.08	0.54
2:C:1132:ARG:HH22	2:C:1140:PRO:HD3	1.71	0.54
2:D:793:THR:HG21	2:D:797:ALA:HB2	1.88	0.54
2:E:686:ARG:HA	2:E:690:LEU:HD22	1.90	0.54
2:F:884:GLN:O	3:V:66:ARG:NH2	2.41	0.54
2:G:311:ASN:ND2	2:G:322:LEU:O	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:845:SER:HB2	2:L:848:ALA:HB3	1.89	0.54
2:M:78:ILE:HD13	2:M:347:ALA:HB3	1.89	0.54
2:P:854:GLY:O	2:P:858:THR:OG1	2.23	0.54
5:q:14:HIS:HB3	5:q:127:LEU:HD13	1.87	0.54
5:u:88:HIS:HA	5:u:304:PHE:HD2	1.72	0.54
2:B:202:LEU:O	2:B:205:GLN:HG2	2.07	0.54
2:B:1193:ARG:NH2	2:B:1234:SER:O	2.41	0.54
2:C:538:ASP:OD2	2:C:983:TYR:OH	2.21	0.54
2:D:63:TRP:HH2	2:D:165:LYS:HB3	1.71	0.54
2:D:556:ILE:O	2:D:1015:ILE:HG13	2.06	0.54
2:D:800:LEU:HA	2:D:937:VAL:HG12	1.90	0.54
2:E:809:VAL:O	2:E:813:TYR:HB2	2.08	0.54
2:E:1331:ALA:HB2	2:F:407:TYR:HB2	1.89	0.54
2:F:342:ASP:HB2	2:F:345:SER:HB3	1.90	0.54
2:I:434:ASP:HA	2:I:1367:LEU:HD13	1.90	0.54
2:J:450:CYS:O	2:J:1122:TYR:OH	2.24	0.54
2:K:941:ARG:NH1	2:K:992:SER:OG	2.38	0.54
2:K:1336:LYS:HE3	2:K:1355:VAL:HG11	1.89	0.54
2:L:211:GLN:O	2:L:215:ILE:HG12	2.07	0.54
2:L:1196:ALA:HB3	2:L:1222:ALA:HB3	1.89	0.54
2:M:805:LYS:H	2:M:889:HIS:HE1	1.54	0.54
4:g:211:HIS:CD2	4:g:213:GLN:HB2	2.41	0.54
4:j:227:ARG:NH1	4:j:290:VAL:OXT	2.41	0.54
1:9:124:ILE:HD13	1:9:127:ARG:HH21	1.72	0.54
2:C:311:ASN:HB3	2:C:321:ILE:HD12	1.88	0.54
2:C:1191:ASN:HD21	2:C:1319:GLN:HB3	1.72	0.54
2:D:424:LEU:HD11	2:D:573:LEU:HD13	1.90	0.54
2:E:1224:THR:HG22	2:E:1226:ALA:H	1.73	0.54
2:F:809:VAL:HG21	3:V:58:CYS:HB3	1.90	0.54
2:H:1150:MET:HA	2:H:1154:GLY:HA2	1.89	0.54
2:I:102:SER:HB3	2:I:108:THR:HG22	1.88	0.54
2:J:432:ASN:OD1	2:J:438:GLN:NE2	2.41	0.54
2:J:435:ARG:H	2:J:1367:LEU:HD11	1.72	0.54
2:J:816:ALA:HB2	2:J:852:ALA:HB1	1.90	0.54
2:L:62:GLU:OE2	2:L:173:ARG:NH1	2.40	0.54
2:L:318:TYR:CE2	2:L:320:SER:HB3	2.42	0.54
2:N:440:ILE:HB	2:N:1108:VAL:HG11	1.89	0.54
2:O:318:TYR:CE2	2:O:320:SER:HB3	2.43	0.54
2:O:512:MET:CE	2:O:527:ILE:HD11	2.38	0.54
2:O:1313:ASN:HB3	2:O:1316:ARG:HG2	1.89	0.54
2:P:657:ILE:HG23	2:P:661:LEU:HD22	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:898:PRO:HB2	2:P:904:ARG:HH12	1.73	0.54
5:h:36:GLN:HG3	5:h:38:LEU:HG	1.90	0.54
5:h:58:TYR:HB3	5:h:187:PRO:HD3	1.88	0.54
4:s:255:LEU:HD22	5:t:1:MET:HE2	1.90	0.54
1:y:194:THR:O	1:y:198:ASN:ND2	2.39	0.54
1:0:49:ARG:HH21	1:0:241:MET:HB2	1.73	0.54
2:C:192:VAL:HG11	2:C:1282:ILE:HD12	1.90	0.54
2:D:532:GLU:OE2	2:D:555:ARG:NH1	2.40	0.54
2:E:1245:ASN:OD1	2:E:1266:PHE:HB3	2.07	0.54
2:H:443:VAL:HA	2:H:446:LEU:HD13	1.89	0.54
2:I:263:THR:HB	2:I:267:ALA:HB3	1.89	0.54
2:I:1161:ALA:HB3	2:J:209:ARG:NH2	2.22	0.54
2:L:556:ILE:HG21	2:L:986:TRP:HZ3	1.73	0.54
2:L:747:ARG:HA	2:L:767:PHE:HD2	1.72	0.54
2:M:207:LEU:HD13	2:M:212:ARG:HB3	1.89	0.54
2:M:263:THR:HB	2:M:267:ALA:HB3	1.88	0.54
5:t:37:ARG:HH11	5:t:69:THR:HG21	1.72	0.54
2:A:718:PRO:HB3	2:A:939:PHE:HE2	1.72	0.54
2:A:927:PRO:HB2	2:A:930:LEU:HB2	1.90	0.54
2:A:1293:ILE:HG23	2:A:1294:ARG:HG3	1.90	0.54
2:B:472:GLU:OE1	2:B:1218:ARG:NH1	2.41	0.54
2:C:269:ILE:HG22	2:C:271:GLY:H	1.73	0.54
2:C:536:PHE:HZ	2:C:1032:PHE:HZ	1.54	0.54
2:C:554:PRO:O	2:C:988:ARG:NH2	2.40	0.54
2:D:1037:VAL:HG23	2:D:1172:CYS:HB3	1.89	0.54
2:E:169:ASP:OD2	2:E:173:ARG:NH2	2.41	0.54
2:G:207:LEU:HD13	2:G:212:ARG:HB3	1.90	0.54
2:I:605:ASN:HB3	2:I:642:ARG:HE	1.73	0.54
2:J:1190:ASN:OD1	2:J:1191:ASN:N	2.37	0.54
2:K:583:ARG:HH22	2:L:999:PRO:HD3	1.73	0.54
2:L:6:ALA:HB2	2:M:317:SER:HA	1.89	0.54
2:N:188:PRO:HA	2:N:1286:LEU:HD21	1.89	0.54
2:P:695:ASN:H	2:P:703:LEU:HD23	1.70	0.54
5:q:75:ARG:HE	5:q:82:LEU:HD22	1.73	0.54
2:A:1064:VAL:HG22	2:A:1077:VAL:HG12	1.90	0.54
2:B:801:GLY:HA3	2:B:890:VAL:HG11	1.90	0.54
2:D:573:LEU:HA	2:D:576:TRP:HD1	1.72	0.54
2:G:608:GLU:HG2	2:G:927:PRO:HA	1.89	0.54
2:I:1040:ASP:HA	2:I:1104:THR:HG21	1.90	0.54
2:K:970:ASP:HA	2:K:996:ALA:HB2	1.90	0.54
2:M:91:MET:HE1	2:M:1086:MET:HG2	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:968:ARG:HG2	2:M:970:ASP:H	1.71	0.54
2:M:1109:ARG:HH22	2:M:1169:LYS:HE3	1.72	0.54
2:N:495:ILE:HG23	2:N:496:PRO:HD3	1.90	0.54
2:O:936:PRO:HD3	2:O:952:LEU:HB3	1.90	0.54
2:P:698:LEU:HB2	2:P:706:TYR:HE2	1.72	0.54
5:l:214:LEU:HD21	5:l:267:ARG:HB3	1.90	0.54
5:l:288:PHE:HB3	5:l:302:CYS:HB3	1.89	0.54
5:u:207:VAL:HG21	5:u:275:LEU:HD21	1.90	0.54
1:v:136:ALA:HB1	1:v:157:VAL:HG21	1.90	0.54
2:A:705:ALA:HB1	2:A:712:ASP:HB3	1.90	0.54
2:A:888:GLU:HG2	2:A:889:HIS:H	1.73	0.54
2:C:800:LEU:HA	2:C:937:VAL:HG12	1.90	0.54
2:F:1143:LEU:HB2	2:F:1146:GLU:HG2	1.89	0.54
2:H:311:ASN:HB3	2:H:321:ILE:HD12	1.88	0.54
2:H:606:TYR:HB3	2:H:925:THR:HG21	1.87	0.54
2:H:1217:HIS:ND1	2:H:1228:THR:OG1	2.41	0.54
2:I:1145:THR:HG22	2:I:1148:ILE:HG12	1.88	0.54
2:N:431:LEU:HD23	2:N:436:ALA:O	2.07	0.54
2:N:1196:ALA:HB3	2:N:1222:ALA:HB3	1.89	0.54
2:O:606:TYR:HH	2:O:610:CYS:HG	1.56	0.54
2:P:66:PHE:HA	2:P:176:ILE:HD11	1.90	0.54
5:i:12:PHE:HD2	5:i:16:LEU:HD11	1.73	0.54
4:m:75:ASP:HB3	5:o:178:ARG:HE	1.73	0.54
5:u:149:ARG:NH1	5:u:172:LEU:O	2.41	0.54
2:A:49:HIS:HB2	2:G:57:PHE:CE2	2.43	0.54
2:B:515:ASP:HA	2:B:993:ARG:HH22	1.73	0.54
2:B:1224:THR:HG22	2:B:1226:ALA:H	1.73	0.54
2:F:268:LYS:O	2:F:366:THR:OG1	2.25	0.54
2:G:78:ILE:HB	2:G:1058:ILE:HG22	1.89	0.54
2:H:209:ARG:HH22	2:M:1298:ASP:N	2.06	0.54
2:H:421:ARG:NH1	2:H:1027:HIS:O	2.38	0.54
2:J:392:THR:HA	2:J:1039:THR:HA	1.88	0.54
2:N:475:MET:SD	2:N:1218:ARG:NH2	2.81	0.54
2:A:732:VAL:HA	2:A:895:VAL:HG22	1.89	0.53
2:A:756:ARG:HG3	2:A:767:PHE:CE2	2.43	0.53
2:B:691:PRO:O	2:C:968:ARG:NH2	2.41	0.53
2:C:1298:ASP:HB2	2:D:209:ARG:HH22	1.73	0.53
2:D:513:LYS:NZ	2:D:532:GLU:OE2	2.40	0.53
2:G:228:PHE:HB3	2:G:231:ASN:HB3	1.91	0.53
2:G:232:ARG:HH21	2:G:1361:PRO:HD2	1.71	0.53
2:G:1110:VAL:HA	2:G:1171:ALA:HB3	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1245:ASN:O	2:G:1249:ARG:N	2.37	0.53
2:I:760:MET:HB3	2:I:889:HIS:CD2	2.42	0.53
2:K:130:GLU:HB3	2:K:1074:THR:HG22	1.89	0.53
2:K:341:ASN:OD1	2:K:342:ASP:N	2.40	0.53
2:K:534:HIS:HD2	2:K:537:PHE:HD1	1.55	0.53
2:L:1195:ARG:NH1	2:L:1227:ALA:O	2.41	0.53
2:M:755:PRO:HD3	3:c:50:MET:HE1	1.89	0.53
2:O:125:ILE:HG22	2:P:103:GLY:HA2	1.89	0.53
4:j:69:ARG:NH2	5:l:106:ASP:OD1	2.40	0.53
5:u:35:PRO:HB3	5:u:51:PHE:HZ	1.73	0.53
1:5:166:ARG:HH11	1:5:186:LEU:HD21	1.73	0.53
2:A:905:GLN:HE22	2:A:1122:TYR:HA	1.72	0.53
2:B:1336:LYS:NZ	2:B:1346:THR:OG1	2.41	0.53
2:D:145:GLY:HA2	2:D:150:LYS:HE3	1.90	0.53
2:I:805:LYS:H	2:I:889:HIS:HE1	1.56	0.53
2:K:710:LEU:HB2	2:K:1012:LEU:HD23	1.91	0.53
2:O:760:MET:HB3	2:O:889:HIS:HD2	1.72	0.53
5:i:223:ALA:HA	5:i:232:VAL:HG22	1.89	0.53
4:m:188:ILE:HD12	4:m:205:LEU:HD12	1.90	0.53
1:4:193:ASN:O	5:q:255:ARG:NH1	2.40	0.53
2:A:1208:GLU:O	2:A:1210:ALA:N	2.41	0.53
2:B:557:VAL:HG11	2:B:1012:LEU:HD12	1.91	0.53
2:D:395:PHE:CZ	2:D:430:LEU:HD11	2.44	0.53
2:D:611:TYR:CZ	2:D:923:VAL:HG13	2.43	0.53
2:D:701:GLU:HG3	2:D:714:ARG:HH12	1.73	0.53
2:D:1033:ALA:O	2:D:1176:LEU:N	2.41	0.53
2:E:693:LEU:HB3	2:E:1022:LEU:HD11	1.90	0.53
2:F:941:ARG:HB3	2:F:992:SER:HB3	1.90	0.53
2:G:698:LEU:HD11	2:G:1127:VAL:HA	1.89	0.53
2:I:106:LEU:HD12	2:I:107:PRO:HD2	1.90	0.53
2:L:21:THR:O	2:L:25:THR:HB	2.07	0.53
2:O:227:LEU:HD21	2:O:391:LEU:HD21	1.88	0.53
2:O:557:VAL:HG11	2:O:1012:LEU:HD12	1.91	0.53
5:q:48:LEU:HD12	5:q:65:LEU:HD13	1.90	0.53
5:q:175:ILE:HG22	5:q:177:PHE:H	1.73	0.53
5:t:10:CYS:HB3	5:t:81:ILE:HB	1.89	0.53
5:t:37:ARG:HD2	5:t:69:THR:HG21	1.90	0.53
1:w:167:ILE:HD12	1:w:188:LEU:HD21	1.91	0.53
1:6:100:GLY:HA3	5:r:224:LEU:HD11	1.90	0.53
1:9:140:VAL:HG21	1:9:158:HIS:NE2	2.24	0.53
2:A:475:MET:C	2:A:478:LEU:HG	2.32	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1118:PRO:HG2	2:A:1119:MET:HE3	1.91	0.53
2:B:524:VAL:HA	2:B:1227:ALA:HB2	1.90	0.53
2:C:79:LYS:N	2:C:303:GLY:O	2.35	0.53
2:C:130:GLU:HB3	2:C:1074:THR:HG22	1.89	0.53
2:C:414:VAL:HG12	2:D:409:THR:HA	1.90	0.53
2:C:438:GLN:HG2	2:C:1108:VAL:HG21	1.91	0.53
2:E:312:ALA:O	2:E:316:ILE:HG12	2.09	0.53
2:E:1232:TRP:O	2:E:1240:SER:OG	2.25	0.53
2:F:433:ARG:HH11	2:F:1166:HIS:HA	1.73	0.53
2:G:600:THR:HB	2:G:644:LEU:HB2	1.90	0.53
2:G:747:ARG:NH2	2:G:918:TYR:OH	2.42	0.53
2:J:1214:ILE:HG21	2:J:1272:ILE:HD11	1.89	0.53
2:M:657:ILE:HD12	2:M:661:LEU:HD22	1.91	0.53
2:O:1165:VAL:HG11	2:P:1223:GLN:H	1.73	0.53
2:P:1230:ASN:HB3	2:P:1233:ALA:HB3	1.91	0.53
5:i:203:SER:HA	5:i:274:MET:HE3	1.90	0.53
4:p:211:HIS:CD2	5:q:66:ARG:HD3	2.44	0.53
2:A:1070:ASP:H	2:A:1073:THR:HG22	1.73	0.53
2:A:1365:SER:O	2:A:1369:ASN:N	2.29	0.53
2:B:698:LEU:O	2:B:700:GLU:N	2.42	0.53
2:B:1195:ARG:NH2	2:B:1219:GLU:O	2.37	0.53
2:C:8:GLU:OE1	2:C:45:ARG:HB3	2.08	0.53
2:C:940:HIS:HD2	2:C:942:PHE:HB2	1.73	0.53
2:D:275:SER:HB2	2:D:280:MET:HE2	1.90	0.53
2:D:1122:TYR:HB2	2:D:1128:ASP:HB2	1.90	0.53
2:E:936:PRO:HB3	2:E:952:LEU:HD22	1.90	0.53
2:E:1327:THR:HG22	2:E:1355:VAL:HG22	1.89	0.53
2:F:1290:LYS:HZ2	2:F:1312:GLU:HB3	1.74	0.53
2:H:1069:ARG:HB2	2:H:1072:SER:O	2.08	0.53
2:I:416:LEU:HD12	2:I:1350:HIS:HD2	1.73	0.53
2:J:1064:VAL:HG22	2:J:1077:VAL:HG12	1.90	0.53
2:L:478:LEU:HD13	2:L:512:MET:SD	2.48	0.53
2:L:798:CYS:HB3	2:L:948:ILE:HG21	1.91	0.53
2:L:1245:ASN:ND2	2:L:1268:THR:OG1	2.42	0.53
2:N:133:ALA:HB2	2:N:1071:ILE:HA	1.89	0.53
2:N:941:ARG:NH1	2:N:982:GLU:HG3	2.21	0.53
5:o:207:VAL:HG11	5:o:275:LEU:HD21	1.90	0.53
1:x:125:VAL:HG21	1:x:210:ILE:HG21	1.91	0.53
1:3:190:ARG:HG3	1:3:191:HIS:H	1.74	0.53
2:A:798:CYS:HA	2:A:943:TYR:HA	1.89	0.53
2:B:3:ASN:ND2	2:C:317:SER:O	2.42	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:698:LEU:O	2:D:700:GLU:N	2.42	0.53
2:G:57:PHE:HB3	2:G:162:ARG:HH12	1.74	0.53
2:H:1190:ASN:OD1	2:H:1191:ASN:N	2.42	0.53
2:J:1247:ARG:HG3	2:J:1269:GLU:HG3	1.90	0.53
2:K:723:LEU:HG	2:K:768:VAL:HG21	1.89	0.53
2:L:1295:GLY:O	2:M:210:ILE:HD12	2.09	0.53
2:M:801:GLY:HA3	2:M:890:VAL:HG11	1.91	0.53
2:N:733:VAL:HG12	2:N:738:PRO:HA	1.91	0.53
2:N:1118:PRO:HG3	2:N:1150:MET:HE1	1.91	0.53
2:P:556:ILE:HG21	2:P:986:TRP:CZ3	2.44	0.53
2:P:1255:ASN:HD22	2:P:1258:PHE:HE2	1.55	0.53
4:j:220:ARG:HG2	4:j:227:ARG:NH2	2.24	0.53
1:v:28:ASP:HA	1:v:176:ARG:HB3	1.90	0.53
2:A:488:MET:HG2	2:A:978:ALA:HB1	1.91	0.53
2:B:1217:HIS:ND1	2:B:1228:THR:OG1	2.41	0.53
2:C:600:THR:OG1	2:C:645:LEU:O	2.26	0.53
2:D:36:ARG:NE	2:N:114:ILE:HG12	2.23	0.53
2:D:970:ASP:N	2:D:970:ASP:OD1	2.42	0.53
2:E:1158:GLU:HG3	2:E:1299:THR:HG21	1.91	0.53
2:F:651:TYR:HB2	2:F:784:PHE:CG	2.44	0.53
2:G:1215:TYR:CE1	2:G:1236:ALA:HB2	2.43	0.53
2:H:688:SER:HB3	2:H:708:ASN:HD22	1.74	0.53
2:L:478:LEU:HD11	2:L:509:VAL:HG13	1.91	0.53
2:L:488:MET:HE1	2:L:978:ALA:HB1	1.91	0.53
2:N:748:HIS:O	2:N:756:ARG:NH1	2.39	0.53
4:g:249:GLN:HB3	4:g:286:PHE:HA	1.89	0.53
5:h:159:ASP:HB2	5:i:221:LYS:HE2	1.89	0.53
4:j:167:ILE:HD13	4:j:204:VAL:HG11	1.90	0.53
5:k:71:THR:HG22	5:k:85:VAL:HG22	1.91	0.53
5:q:59:VAL:HG22	5:q:150:LEU:HD21	1.89	0.53
4:s:68:ILE:HG22	4:s:131:THR:HA	1.90	0.53
1:5:107:ALA:HB1	1:5:111:ARG:HH12	1.74	0.53
2:A:495:ILE:HG23	2:A:496:PRO:HD3	1.90	0.53
2:B:558:ILE:N	2:B:1013:TYR:O	2.35	0.53
2:B:1182:ASP:HA	2:B:1186:PHE:HD2	1.74	0.53
2:D:66:PHE:HA	2:D:176:ILE:HD11	1.89	0.53
2:D:430:LEU:HB2	2:D:438:GLN:HB3	1.91	0.53
2:D:431:LEU:HA	2:D:436:ALA:O	2.08	0.53
2:G:558:ILE:HD13	2:G:1015:ILE:HG22	1.90	0.53
2:I:1244:TYR:HA	2:I:1249:ARG:HH21	1.73	0.53
2:J:647:PHE:HD1	2:J:653:LEU:HD13	1.73	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:556:ILE:HG21	2:L:986:TRP:CZ3	2.43	0.53
2:M:601:VAL:HG23	2:M:924:VAL:HG21	1.89	0.53
2:M:693:LEU:HD11	2:M:1026:ALA:HB2	1.90	0.53
4:s:91:ALA:HA	4:s:200:PRO:HG2	1.90	0.53
5:u:104:LYS:HG2	5:u:292:ASP:HA	1.90	0.53
1:z:118:VAL:O	1:z:214:ARG:NH1	2.42	0.53
2:B:211:GLN:O	2:B:215:ILE:HG12	2.08	0.53
2:B:455:HIS:NE2	2:B:1017:PRO:HG3	2.24	0.53
2:D:59:ASN:HB2	2:E:95:VAL:HA	1.89	0.53
2:D:433:ARG:NH1	2:D:1166:HIS:O	2.42	0.53
2:F:481:CYS:HB3	2:F:542:CYS:HA	1.90	0.53
2:H:59:ASN:HD22	2:I:96:GLN:H	1.57	0.53
2:H:733:VAL:HG12	2:H:738:PRO:HA	1.91	0.53
2:J:419:THR:HG21	2:K:404:ASP:HA	1.90	0.53
2:M:62:GLU:OE2	2:M:173:ARG:NH1	2.42	0.53
2:M:688:SER:HB3	2:M:708:ASN:ND2	2.23	0.53
2:O:695:ASN:H	2:O:703:LEU:HD23	1.74	0.53
2:P:315:ALA:HB2	2:P:321:ILE:HD11	1.90	0.53
5:k:227:SER:HA	5:k:231:LEU:HD23	1.91	0.53
1:w:60:LEU:HB3	1:w:268:LEU:HD11	1.91	0.53
2:B:295:THR:HA	2:B:356:SER:HA	1.89	0.53
2:B:669:GLN:O	2:B:673:HIS:ND1	2.42	0.53
2:D:437:VAL:N	2:E:1184:ASN:OD1	2.42	0.53
2:D:554:PRO:HD3	2:D:907:LEU:HD12	1.91	0.53
2:E:487:PRO:O	2:E:494:ARG:NH2	2.42	0.53
2:F:747:ARG:HE	2:F:767:PHE:HB3	1.74	0.53
2:G:4:TRP:HE1	2:G:9:LEU:HD11	1.74	0.53
2:H:71:LEU:HD22	2:H:372:LEU:HD11	1.91	0.53
2:J:196:LEU:O	2:J:200:ALA:HB2	2.09	0.53
2:L:495:ILE:HG23	2:L:496:PRO:HD3	1.90	0.53
2:L:760:MET:HB3	2:L:889:HIS:CD2	2.44	0.53
2:N:705:ALA:HB1	2:N:712:ASP:HB3	1.90	0.53
2:O:63:TRP:HH2	2:O:165:LYS:HD2	1.74	0.53
5:l:245:ARG:HH12	5:l:250:PRO:HD2	1.73	0.53
5:o:65:LEU:HD21	5:o:110:VAL:HG12	1.90	0.53
2:D:419:THR:HB	2:D:422:ASN:HD22	1.74	0.52
2:G:631:VAL:HG13	2:G:661:LEU:HD22	1.91	0.52
2:I:756:ARG:HH21	3:Y:66:ARG:HH12	1.57	0.52
2:L:432:ASN:OD1	2:L:438:GLN:NE2	2.42	0.52
5:h:224:LEU:HD22	1:v:93:THR:HA	1.90	0.52
5:h:261:PRO:HB3	5:i:168:ALA:HB1	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:i:207:VAL:HG11	5:i:275:LEU:HD21	1.90	0.52
4:j:134:CYS:HB3	4:j:154:LEU:HD21	1.91	0.52
4:s:211:HIS:CD2	5:t:66:ARG:HD3	2.44	0.52
1:v:194:THR:HG22	1:v:196:LEU:H	1.74	0.52
1:0:167:ILE:HD12	1:0:188:LEU:HD21	1.90	0.52
2:A:1064:VAL:HB	2:G:12:LYS:HG2	1.90	0.52
2:B:93:PHE:HB2	2:B:116:VAL:HB	1.90	0.52
2:D:1315:CYS:O	2:D:1319:GLN:N	2.40	0.52
2:F:1037:VAL:HG21	2:F:1262:CYS:HB2	1.90	0.52
2:F:1293:ILE:HG22	2:F:1311:ILE:HD13	1.91	0.52
2:I:251:THR:HG21	2:I:1089:GLY:HA3	1.91	0.52
2:J:556:ILE:HG21	2:J:986:TRP:HZ3	1.73	0.52
2:M:291:ILE:HA	2:M:360:ILE:HG22	1.90	0.52
2:M:760:MET:HB3	2:M:889:HIS:CD2	2.41	0.52
3:S:26:LEU:HB3	3:S:28:LEU:HG	1.89	0.52
3:a:34:GLU:HA	3:a:40:LEU:HD23	1.91	0.52
4:g:216:VAL:O	4:g:220:ARG:HG3	2.10	0.52
4:j:211:HIS:CD2	4:j:213:GLN:HB2	2.44	0.52
5:l:115:PHE:HZ	5:l:119:LEU:HA	1.74	0.52
4:p:193:TYR:OH	4:p:244:CYS:O	2.26	0.52
1:7:235:LEU:HD23	1:7:254:LEU:HD21	1.91	0.52
1:9:172:GLU:OE2	1:9:175:ARG:NH2	2.42	0.52
2:A:71:LEU:HD13	2:A:274:VAL:HG21	1.92	0.52
2:B:63:TRP:CH2	2:B:165:LYS:HB3	2.43	0.52
2:B:1214:ILE:HG23	2:B:1215:TYR:H	1.74	0.52
2:C:970:ASP:OD1	2:C:971:GLY:N	2.41	0.52
2:C:1362:LEU:O	2:C:1366:MET:N	2.42	0.52
2:E:1122:TYR:HB2	2:E:1128:ASP:HB2	1.90	0.52
2:G:797:ALA:HA	2:G:924:VAL:HG22	1.91	0.52
2:H:212:ARG:HH22	2:H:1204:PRO:HD3	1.74	0.52
2:K:559:GLY:HA3	2:K:1011:MET:HB3	1.90	0.52
2:M:1004:SER:HA	2:M:1007:THR:HG22	1.91	0.52
2:N:452:PRO:HG3	2:N:1122:TYR:CE1	2.44	0.52
3:T:22:VAL:HG13	3:T:28:LEU:HD12	1.90	0.52
3:W:29:PRO:HG2	3:W:32:ILE:HG12	1.91	0.52
3:b:43:MET:HE2	3:b:67:MET:HG3	1.91	0.52
5:q:33:PRO:HB3	5:q:70:LEU:HD23	1.91	0.52
5:q:260:SER:HB2	5:q:263:ASP:HB3	1.91	0.52
2:A:514:GLN:HE22	2:A:563:ASP:H	1.56	0.52
2:A:1177:THR:OG1	2:A:1180:THR:OG1	2.27	0.52
2:B:59:ASN:HD22	2:C:95:VAL:HG13	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:394:PHE:HB3	2:B:1037:VAL:HG12	1.90	0.52
2:D:540:THR:HG21	2:D:983:TYR:CE2	2.45	0.52
2:E:435:ARG:HG3	2:E:1367:LEU:HD21	1.91	0.52
2:G:630:PHE:HD1	2:G:633:ARG:HH21	1.56	0.52
2:I:527:ILE:HG22	2:I:1218:ARG:HH12	1.75	0.52
2:J:258:PRO:O	2:J:262:THR:OG1	2.27	0.52
2:J:853:VAL:HB	2:J:857:LEU:HD23	1.91	0.52
2:L:884:GLN:O	3:b:66:ARG:NH2	2.42	0.52
2:N:1165:VAL:HG23	2:O:216:LEU:HD23	1.92	0.52
2:N:1195:ARG:NH1	2:N:1227:ALA:O	2.43	0.52
2:O:628:ARG:HA	2:O:631:VAL:HG12	1.91	0.52
2:P:188:PRO:HA	2:P:1286:LEU:HD21	1.91	0.52
2:P:558:ILE:HA	2:P:1015:ILE:HD11	1.92	0.52
3:R:37:HIS:CD2	3:R:39:VAL:HG12	2.44	0.52
3:W:18:HIS:CE1	3:W:44:LEU:HB3	2.44	0.52
2:A:44:GLU:O	2:A:46:TYR:N	2.39	0.52
2:A:441:ASP:OD1	2:A:442:PHE:N	2.42	0.52
2:C:251:THR:HG21	2:C:1089:GLY:HA3	1.92	0.52
2:D:1240:SER:HB2	2:D:1266:PHE:CE2	2.45	0.52
2:E:461:LEU:HD13	2:E:552:CYS:HB2	1.92	0.52
2:E:703:LEU:HA	2:E:706:TYR:HD2	1.75	0.52
2:I:64:VAL:HG11	2:I:375:VAL:HG12	1.92	0.52
2:J:210:ILE:O	2:J:213:SER:OG	2.24	0.52
2:L:450:CYS:O	2:L:1122:TYR:OH	2.28	0.52
2:L:888:GLU:O	2:L:919:ASN:ND2	2.42	0.52
2:O:493:ARG:HH11	2:O:935:LEU:HD11	1.74	0.52
2:O:1193:ARG:NH2	2:O:1195:ARG:O	2.42	0.52
4:j:185:VAL:HG22	4:j:206:THR:HG22	1.90	0.52
4:m:248:ILE:HG13	4:m:289:PHE:CE1	2.45	0.52
1:4:256:HIS:CE1	2:H:748:HIS:HA	2.44	0.52
1:8:66:LEU:HB3	1:8:217:TRP:CH2	2.45	0.52
1:8:124:ILE:HD13	1:8:127:ARG:HH21	1.75	0.52
2:A:846:ILE:HA	2:A:849:GLN:HG2	1.92	0.52
2:A:1182:ASP:HB3	2:A:1186:PHE:CE2	2.44	0.52
2:A:1217:HIS:CE1	2:A:1235:GLN:HE22	2.27	0.52
2:C:118:LYS:HD3	2:C:1085:ASP:O	2.09	0.52
2:C:486:GLU:HB3	2:C:978:ALA:HB2	1.92	0.52
2:D:1166:HIS:HE1	2:E:1223:GLN:HA	1.75	0.52
2:E:1043:GLU:OE2	2:E:1103:ARG:NH2	2.42	0.52
2:H:1250:GLU:HA	2:H:1254:TYR:HE1	1.74	0.52
2:I:946:PRO:HG3	2:I:973:PHE:HD1	1.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1041:THR:N	2:I:1104:THR:OG1	2.41	0.52
2:J:445:ALA:HA	2:J:1110:VAL:HG21	1.89	0.52
2:J:1341:ALA:HA	2:J:1364:GLN:NE2	2.25	0.52
2:L:92:LEU:HD23	2:N:7:LEU:HB2	1.92	0.52
2:N:494:ARG:HA	2:N:497:HIS:HD2	1.74	0.52
2:N:1268:THR:HA	2:N:1271:ILE:HG22	1.92	0.52
2:O:1214:ILE:HG21	2:O:1272:ILE:HD11	1.92	0.52
2:P:211:GLN:O	2:P:215:ILE:HG12	2.10	0.52
5:t:197:MET:HE3	5:u:222:LEU:HD21	1.91	0.52
1:1:23:LEU:HD11	1:1:29:VAL:HG13	1.92	0.52
2:A:1029:HIS:ND1	2:A:1030:PRO:O	2.43	0.52
2:B:64:VAL:HG21	2:B:173:ARG:HE	1.75	0.52
2:C:1276:LYS:HB2	2:C:1281:THR:HB	1.90	0.52
2:D:120:SER:HB3	2:D:1084:VAL:HG12	1.92	0.52
2:D:488:MET:HE1	2:D:978:ALA:HB1	1.92	0.52
2:D:707:VAL:HA	2:D:1019:SER:HB2	1.91	0.52
2:E:940:HIS:CD2	2:E:942:PHE:H	2.28	0.52
2:F:409:THR:HG23	2:F:410:VAL:HG23	1.92	0.52
2:P:212:ARG:NH2	2:P:1202:VAL:O	2.43	0.52
2:P:495:ILE:HG23	2:P:496:PRO:HD3	1.92	0.52
2:P:1327:THR:HG22	2:P:1355:VAL:HG22	1.91	0.52
4:j:66:LEU:HD12	4:j:84:LEU:HD22	1.91	0.52
5:k:20:ASP:HA	5:k:23:LYS:HE2	1.92	0.52
5:t:91:LEU:HA	5:t:303:ILE:HG13	1.90	0.52
1:3:129:LEU:HD13	1:3:154:ILE:HG21	1.92	0.52
1:7:206:THR:O	1:7:210:ILE:HG12	2.10	0.52
2:D:1021:VAL:HG11	2:D:1134:ALA:HB1	1.91	0.52
2:F:998:CYS:SG	2:F:1004:SER:OG	2.67	0.52
2:G:64:VAL:HG11	2:G:375:VAL:HG12	1.92	0.52
2:H:388:ASN:HB2	2:H:1041:THR:HG23	1.92	0.52
2:I:688:SER:HB3	2:I:708:ASN:ND2	2.25	0.52
2:M:1035:THR:HG21	2:M:1176:LEU:HD12	1.91	0.52
2:N:1148:ILE:HD12	5:k:192:HIS:HD2	1.75	0.52
5:h:90:LEU:O	5:h:304:PHE:N	2.40	0.52
4:p:259:ILE:HG12	4:p:276:LEU:HD23	1.91	0.52
5:t:51:PHE:CE1	5:t:68:MET:HE1	2.45	0.52
1:1:125:VAL:HG21	1:1:210:ILE:HD13	1.92	0.52
1:6:172:GLU:OE2	1:6:175:ARG:NH2	2.43	0.52
2:A:475:MET:CG	2:A:478:LEU:HD21	2.39	0.52
2:C:22:HIS:CG	2:C:23:VAL:H	2.27	0.52
2:C:599:THR:O	2:C:603:SER:OG	2.26	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1069:ARG:NH1	5:k:91:LEU:HB3	2.25	0.52
2:D:1279:PHE:HD2	2:L:31:MET:HB2	1.74	0.52
2:E:1285:TYR:HA	2:E:1289:ALA:HB3	1.92	0.52
2:F:295:THR:HA	2:F:356:SER:HA	1.92	0.52
2:F:394:PHE:HB3	2:F:1037:VAL:HG12	1.91	0.52
2:F:1365:SER:O	2:F:1369:ASN:N	2.42	0.52
2:I:154:VAL:O	2:I:158:HIS:ND1	2.43	0.52
2:I:377:LYS:NZ	2:I:378:ASN:OD1	2.39	0.52
2:J:1066:LYS:HG3	2:J:1075:TYR:HE1	1.75	0.52
2:K:1214:ILE:HG23	2:K:1215:TYR:CD2	2.45	0.52
2:L:601:VAL:HG21	2:L:793:THR:HG22	1.92	0.52
2:N:534:HIS:HD2	2:N:537:PHE:HD2	1.58	0.52
2:O:1250:GLU:HA	2:O:1254:TYR:HE1	1.74	0.52
3:T:25:VAL:HA	3:T:57:LYS:HD2	1.91	0.52
5:h:37:ARG:HH11	5:h:69:THR:HG21	1.75	0.52
5:k:48:LEU:HD12	5:k:65:LEU:HD21	1.91	0.52
4:p:78:ARG:NH2	5:r:103:GLU:OE2	2.42	0.52
2:A:274:VAL:HG12	2:A:385:LEU:HD11	1.91	0.52
2:B:761:ASP:OD1	2:B:889:HIS:ND1	2.35	0.52
2:C:1054:CYS:SG	2:C:1055:THR:N	2.82	0.52
2:E:491:ALA:HA	2:E:494:ARG:HB2	1.92	0.52
2:G:998:CYS:SG	2:G:1004:SER:OG	2.50	0.52
2:G:1329:THR:HG22	2:G:1331:ALA:H	1.74	0.52
2:H:380:ASP:O	2:I:204:ARG:HD2	2.10	0.52
2:H:1214:ILE:HD13	2:H:1268:THR:HG23	1.92	0.52
2:J:1322:LEU:HD22	2:J:1359:ILE:HG21	1.92	0.52
2:K:1060:ASN:O	2:K:1079:GLN:NE2	2.37	0.52
2:N:554:PRO:O	2:N:988:ARG:NH2	2.39	0.52
2:P:475:MET:SD	2:P:1218:ARG:NH2	2.82	0.52
4:p:234:ARG:NH1	5:q:206:MET:SD	2.83	0.52
5:r:239:MET:HG2	5:r:241:LEU:HD23	1.92	0.52
1:3:193:ASN:HB2	1:3:198:ASN:HD21	1.75	0.51
2:A:430:LEU:HB2	2:A:438:GLN:HB3	1.91	0.51
2:A:633:ARG:HH22	2:A:878:GLU:HG3	1.75	0.51
2:B:555:ARG:NH1	2:B:560:ASN:O	2.43	0.51
2:C:105:GLY:N	5:h:40:LEU:O	2.42	0.51
2:C:202:LEU:HD12	2:C:203:ALA:HB2	1.93	0.51
2:D:747:ARG:HB2	2:D:767:PHE:HB3	1.93	0.51
2:F:609:LEU:HB2	2:F:860:LEU:HB3	1.92	0.51
2:I:947:THR:HG23	2:I:969:HIS:HE1	1.75	0.51
2:K:457:PRO:HD3	2:K:537:PHE:CZ	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:642:ARG:HD3	2:K:644:LEU:HD21	1.91	0.51
2:L:1062:PRO:HG2	4:j:33:ILE:HA	1.93	0.51
2:M:752:SER:HB3	3:c:63:ASP:OD1	2.10	0.51
2:N:1244:TYR:HB2	2:N:1266:PHE:HD2	1.75	0.51
2:P:1058:ILE:HD11	2:P:1082:ASN:HB2	1.92	0.51
4:j:258:ASP:HB3	4:j:277:ASP:HB3	1.92	0.51
4:m:66:LEU:HD12	4:m:84:LEU:HD22	1.92	0.51
5:n:155:LEU:HD23	5:n:197:MET:HE3	1.92	0.51
5:t:140:MET:HE3	5:t:283:ARG:HH11	1.76	0.51
2:A:153:ASN:O	2:A:157:MET:HG2	2.09	0.51
2:A:983:TYR:HA	2:A:988:ARG:HH12	1.75	0.51
2:E:654:VAL:HG23	2:E:674:TYR:HD1	1.75	0.51
2:F:374:ARG:HG3	2:F:375:VAL:HG13	1.93	0.51
2:G:417:ASN:OD1	2:G:422:ASN:ND2	2.43	0.51
2:I:482:ARG:HH12	2:I:545:ASN:HA	1.76	0.51
2:I:931:ILE:HD11	2:I:952:LEU:HA	1.91	0.51
2:K:801:GLY:HA3	2:K:890:VAL:HG11	1.92	0.51
2:N:1162:ALA:HB3	2:O:1213:ALA:HB2	1.92	0.51
2:P:180:LEU:HD23	2:P:384:PRO:HG2	1.92	0.51
2:P:805:LYS:H	2:P:889:HIS:CE1	2.26	0.51
2:P:931:ILE:HD11	2:P:952:LEU:HA	1.93	0.51
1:1:20:LEU:HD22	1:1:65:GLU:HG3	1.92	0.51
1:3:190:ARG:O	1:3:192:ALA:N	2.40	0.51
2:A:250:ALA:HB2	2:A:1049:TYR:HE2	1.75	0.51
2:B:199:ASN:HD21	2:B:215:ILE:HD11	1.76	0.51
2:C:37:ILE:HG22	2:M:114:ILE:HA	1.90	0.51
2:C:653:LEU:O	2:C:657:ILE:HG12	2.09	0.51
2:D:733:VAL:HG12	2:D:738:PRO:HA	1.92	0.51
2:D:1313:ASN:HB3	2:D:1316:ARG:HG2	1.93	0.51
2:E:209:ARG:O	2:E:212:ARG:HG2	2.11	0.51
2:E:415:LYS:HB3	2:F:408:THR:HB	1.93	0.51
2:E:534:HIS:NE2	2:E:536:PHE:HB2	2.26	0.51
2:E:1264:GLN:OE1	2:E:1313:ASN:ND2	2.44	0.51
2:F:981:HIS:HB3	2:F:984:HIS:HB2	1.93	0.51
2:G:186:LYS:HE3	2:G:1055:THR:HB	1.92	0.51
2:G:315:ALA:HB2	2:G:321:ILE:HD11	1.92	0.51
2:G:1115:ARG:NH1	2:G:1139:ARG:HD3	2.26	0.51
2:H:808:LEU:HD23	2:H:883:VAL:HG13	1.92	0.51
2:L:116:VAL:HG12	2:N:35:LEU:HB3	1.92	0.51
2:N:420:VAL:HG21	2:N:576:TRP:HB3	1.92	0.51
2:N:760:MET:HB3	2:N:889:HIS:CD2	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:884:GLN:HA	3:d:66:ARG:HB2	1.91	0.51
2:O:1038:ARG:NH1	2:O:1107:GLY:O	2.41	0.51
2:O:1041:THR:H	2:O:1104:THR:HG1	1.57	0.51
2:P:983:TYR:O	2:P:988:ARG:NH2	2.42	0.51
4:g:263:PHE:HZ	4:g:270:LYS:HD2	1.75	0.51
4:j:173:LEU:HB2	4:j:205:LEU:HD21	1.93	0.51
4:p:72:THR:HG21	4:p:117:TRP:CG	2.45	0.51
5:q:291:CYS:HG	5:q:301:THR:HG1	1.57	0.51
1:O:245:PHE:HB2	3:T:71:SER:HA	1.92	0.51
2:A:478:LEU:CD2	2:A:527:ILE:CD1	2.89	0.51
2:A:747:ARG:HG3	2:A:767:PHE:HB3	1.92	0.51
2:A:1060:ASN:OD1	2:A:1061:ASN:N	2.43	0.51
2:B:657:ILE:HG13	2:B:661:LEU:HD22	1.92	0.51
2:B:822:ALA:HB3	3:R:72:ARG:HD2	1.91	0.51
2:C:1070:ASP:HB3	5:o:93:THR:HG23	1.92	0.51
2:D:915:HIS:NE2	2:D:978:ALA:O	2.43	0.51
2:D:1035:THR:HG22	2:D:1186:PHE:HE1	1.75	0.51
2:H:693:LEU:HD11	2:H:1026:ALA:HB2	1.91	0.51
2:J:913:ARG:H	2:J:984:HIS:HB3	1.75	0.51
2:M:139:LEU:HD22	2:M:160:VAL:HG21	1.92	0.51
2:N:130:GLU:HB3	2:N:1074:THR:HG22	1.93	0.51
2:O:914:GLN:HE22	2:O:985:ASN:HA	1.76	0.51
2:O:1018:VAL:HG12	2:O:1131:ILE:HD11	1.92	0.51
4:g:135:VAL:HG22	4:g:146:LEU:HD13	1.92	0.51
5:l:175:ILE:HD11	5:l:182:PHE:HB2	1.92	0.51
2:A:976:PRO:O	2:A:980:ALA:N	2.44	0.51
2:A:1224:THR:HG21	2:A:1229:HIS:CE1	2.46	0.51
2:B:253:SER:OG	2:B:256:ASP:OD1	2.29	0.51
2:B:1050:SER:HA	2:B:1092:SER:HA	1.93	0.51
2:C:396:PRO:HB3	2:C:1186:PHE:CZ	2.46	0.51
2:C:1070:ASP:HB3	5:o:93:THR:H	1.75	0.51
2:E:1241:ASP:OD2	2:E:1245:ASN:ND2	2.44	0.51
2:H:450:CYS:O	2:H:1122:TYR:OH	2.29	0.51
2:H:1205:TYR:HE2	2:H:1277:THR:HG23	1.74	0.51
2:I:606:TYR:OH	2:I:610:CYS:SG	2.57	0.51
2:K:1132:ARG:HH22	2:K:1140:PRO:HD2	1.73	0.51
2:P:1018:VAL:HG12	2:P:1131:ILE:HD11	1.93	0.51
5:n:123:ASN:O	5:n:125:LEU:N	2.40	0.51
2:B:346:GLN:HA	2:B:350:HIS:HB3	1.93	0.51
2:B:892:VAL:HG11	2:B:979:PHE:HE1	1.75	0.51
2:C:7:LEU:HD22	2:M:92:LEU:HB3	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:435:ARG:HG2	2:C:1367:LEU:HD13	1.93	0.51
2:D:29:GLU:HA	2:N:1277:THR:HB	1.93	0.51
2:E:207:LEU:HD13	2:E:212:ARG:HB3	1.93	0.51
2:E:1037:VAL:HG23	2:E:1261:PRO:HG2	1.92	0.51
2:E:1100:ASN:OD1	2:E:1101:ARG:N	2.43	0.51
2:F:991:PHE:HE1	2:F:1011:MET:HE2	1.75	0.51
2:G:273:MET:HG3	2:G:367:VAL:HG11	1.91	0.51
2:H:213:SER:OG	2:M:1164:THR:O	2.24	0.51
2:J:416:LEU:HD13	2:J:422:ASN:HB3	1.92	0.51
2:J:494:ARG:HA	2:J:497:HIS:HD2	1.75	0.51
2:K:1168:GLN:HG3	2:L:210:ILE:HD11	1.91	0.51
5:i:18:ILE:HA	5:i:21:VAL:HG12	1.93	0.51
5:k:173:GLN:HB3	5:k:183:THR:HG23	1.92	0.51
5:k:288:PHE:HB3	5:k:302:CYS:HB3	1.93	0.51
1:z:229:GLN:NE2	1:z:259:GLU:OE2	2.44	0.51
2:A:228:PHE:HE1	2:A:1044:VAL:HG22	1.76	0.51
2:A:339:LEU:H	2:A:340:PRO:HD2	1.76	0.51
2:A:430:LEU:HD12	2:A:1108:VAL:HG21	1.92	0.51
2:A:888:GLU:HG2	2:A:889:HIS:N	2.26	0.51
2:B:643:GLN:HB3	2:G:672:PHE:HZ	1.76	0.51
2:B:747:ARG:HD2	2:B:769:ASP:HB2	1.93	0.51
2:C:447:LYS:HE2	2:C:1112:ASP:HA	1.93	0.51
2:G:1246:THR:N	2:G:1267:ASN:OD1	2.35	0.51
2:H:130:GLU:HB3	2:H:1074:THR:HG22	1.93	0.51
2:H:625:LEU:HD11	2:H:660:HIS:CG	2.46	0.51
2:H:895:VAL:HB	2:H:914:GLN:HB2	1.93	0.51
2:K:583:ARG:HH12	2:L:999:PRO:HD3	1.75	0.51
2:K:756:ARG:NH2	3:a:66:ARG:HH12	2.06	0.51
2:K:1244:TYR:HB2	2:K:1266:PHE:HD2	1.75	0.51
2:L:1165:VAL:O	2:M:213:SER:HB2	2.11	0.51
1:2:129:LEU:HD11	1:2:204:VAL:HG13	1.93	0.51
1:4:181:VAL:HG12	1:4:183:PRO:HD3	1.92	0.51
1:8:76:VAL:HG11	1:8:209:LEU:HD23	1.93	0.51
2:A:733:VAL:HG23	2:A:894:GLU:HG3	1.93	0.51
2:D:733:VAL:HG23	2:D:894:GLU:HB2	1.92	0.51
2:G:461:LEU:HD13	2:G:552:CYS:HB2	1.91	0.51
2:I:507:ARG:HD3	2:I:512:MET:CE	2.41	0.51
2:I:606:TYR:OH	2:I:649:HIS:ND1	2.43	0.51
2:I:1330:LEU:HD13	2:J:1183:VAL:HG11	1.93	0.51
2:J:651:TYR:HA	2:J:654:VAL:HG12	1.92	0.51
2:K:692:GLY:O	2:L:993:ARG:NH1	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:601:VAL:HG21	2:M:793:THR:HG22	1.92	0.51
2:M:617:VAL:HG12	2:M:619:GLY:H	1.76	0.51
2:N:559:GLY:HA3	2:N:1011:MET:HB3	1.91	0.51
2:N:1244:TYR:HA	2:N:1249:ARG:HH21	1.76	0.51
2:O:884:GLN:O	3:e:66:ARG:NH2	2.44	0.51
2:P:642:ARG:HD3	2:P:644:LEU:HD21	1.92	0.51
2:P:770:ASP:O	2:P:772:ARG:N	2.44	0.51
1:x:81:GLU:HB2	1:x:114:PHE:HE2	1.76	0.51
1:6:32:GLU:OE2	1:6:223:LYS:NZ	2.41	0.51
2:B:433:ARG:HA	2:B:1106:MET:HE3	1.92	0.51
2:D:36:ARG:HB3	2:N:114:ILE:CG1	2.40	0.51
2:H:488:MET:HE1	2:H:978:ALA:HB1	1.92	0.51
2:H:695:ASN:OD1	2:I:507:ARG:NH1	2.44	0.51
2:I:733:VAL:HG12	2:I:738:PRO:HA	1.92	0.51
2:J:535:PRO:HB3	2:J:1232:TRP:CZ2	2.46	0.51
2:L:234:ARG:HH22	2:L:282:ILE:HD13	1.76	0.51
2:L:1214:ILE:HG23	2:L:1215:TYR:CD2	2.46	0.51
2:M:478:LEU:HD22	2:M:527:ILE:HD12	1.93	0.51
2:M:913:ARG:H	2:M:984:HIS:HB3	1.75	0.51
2:P:372:LEU:HD12	2:P:385:LEU:HD11	1.93	0.51
3:V:29:PRO:HG2	3:V:32:ILE:HG12	1.93	0.51
5:k:4:MET:SD	5:k:37:ARG:HD3	2.51	0.51
5:o:160:ARG:HH22	5:o:169:VAL:HG11	1.74	0.51
4:p:220:ARG:HG2	4:p:227:ARG:HH21	1.76	0.51
2:A:1054:CYS:SG	2:A:1055:THR:N	2.84	0.51
2:B:892:VAL:HG11	2:B:979:PHE:CE1	2.46	0.51
2:C:25:THR:OG1	2:M:203:ALA:O	2.22	0.51
2:C:1152:THR:HG21	4:m:113:ALA:HB2	1.93	0.51
2:I:76:HIS:HB3	2:I:1056:SER:HA	1.92	0.51
2:I:1058:ILE:HD11	2:I:1082:ASN:HD22	1.75	0.51
2:K:1035:THR:HG21	2:K:1176:LEU:HD12	1.92	0.51
2:L:315:ALA:HB2	2:L:321:ILE:HD11	1.93	0.51
2:N:651:TYR:HB2	2:N:784:PHE:CD2	2.46	0.51
2:N:884:GLN:O	3:d:66:ARG:NH2	2.44	0.51
2:N:1247:ARG:HG3	2:N:1269:GLU:HG3	1.92	0.51
2:N:1324:ILE:HA	2:N:1358:GLU:HG3	1.91	0.51
2:O:900:ASP:OD2	2:O:1014:LYS:NZ	2.44	0.51
2:P:1056:SER:OG	2:P:1086:MET:SD	2.68	0.51
5:i:65:LEU:HD21	5:i:110:VAL:HG12	1.93	0.51
5:k:238:LEU:HB3	5:l:210:LEU:HD13	1.92	0.51
1:y:122:ALA:HB2	1:y:214:ARG:HG2	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:154:ILE:HG21	1:2:208:ARG:HD3	1.93	0.50
1:4:246:ASP:HB3	1:4:281:SER:HB2	1.93	0.50
2:A:108:THR:HG22	2:A:110:ARG:H	1.75	0.50
2:A:269:ILE:HG12	2:A:368:ILE:HG13	1.92	0.50
2:C:1115:ARG:O	2:C:1255:ASN:ND2	2.44	0.50
2:D:182:THR:HG21	2:D:1083:THR:HG21	1.94	0.50
2:D:382:LYS:HE3	2:D:386:GLU:O	2.11	0.50
2:E:611:TYR:CZ	2:E:923:VAL:HG13	2.46	0.50
2:E:681:LEU:HA	2:E:783:VAL:HG11	1.93	0.50
2:F:224:LEU:HD22	2:F:1359:ILE:HG12	1.93	0.50
2:F:399:LEU:HD13	2:F:1182:ASP:HB3	1.93	0.50
2:H:647:PHE:HD2	2:H:653:LEU:HD13	1.76	0.50
2:I:1001:VAL:O	2:I:1003:HIS:N	2.36	0.50
2:J:884:GLN:O	3:Z:66:ARG:NH2	2.44	0.50
2:K:1064:VAL:HG22	2:K:1077:VAL:HG12	1.92	0.50
2:L:129:PHE:HE1	2:L:1077:VAL:HG13	1.76	0.50
2:M:600:THR:OG1	2:M:645:LEU:O	2.19	0.50
2:N:251:THR:HG21	2:N:1089:GLY:HA3	1.92	0.50
2:A:294:GLU:OE2	2:A:361:ARG:NH2	2.44	0.50
2:A:747:ARG:HE	2:A:749:HIS:CE1	2.29	0.50
2:C:574:ARG:NH2	2:C:1010:ALA:O	2.45	0.50
2:D:606:TYR:OH	2:D:610:CYS:SG	2.65	0.50
2:F:558:ILE:HG12	2:F:574:ARG:HH22	1.74	0.50
2:F:985:ASN:O	2:F:988:ARG:NH1	2.44	0.50
2:G:805:LYS:NZ	3:W:56:ASP:OD2	2.40	0.50
2:H:642:ARG:NH1	2:M:662:ALA:O	2.44	0.50
2:H:1290:LYS:HG2	2:H:1312:GLU:HA	1.93	0.50
2:J:211:GLN:O	2:J:215:ILE:HG12	2.11	0.50
2:J:1110:VAL:HA	2:J:1171:ALA:HB3	1.92	0.50
2:K:760:MET:HB3	2:K:889:HIS:CD2	2.42	0.50
2:N:226:THR:HG22	2:N:229:LEU:HD11	1.91	0.50
5:o:48:LEU:HD11	5:o:65:LEU:HD13	1.93	0.50
5:t:190:ASP:OD1	5:t:191:GLN:N	2.44	0.50
5:u:33:PRO:HB2	5:u:68:MET:HE2	1.93	0.50
1:2:78:GLU:HA	1:3:190:ARG:HH12	1.75	0.50
2:D:657:ILE:HG23	2:D:661:LEU:HD22	1.94	0.50
2:E:273:MET:HB3	2:E:1049:TYR:HD1	1.77	0.50
2:E:820:MET:HE3	2:E:821:PRO:HD2	1.92	0.50
2:F:988:ARG:HB2	2:F:990:PRO:HD2	1.94	0.50
2:H:91:MET:HG2	2:M:54:PHE:HB2	1.93	0.50
2:J:120:SER:HB3	2:J:1084:VAL:HG12	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:753:ASP:HB3	2:L:756:ARG:HB3	1.93	0.50
2:M:212:ARG:HD3	2:M:1200:LEU:O	2.11	0.50
2:N:1173:GLU:O	2:N:1244:TYR:OH	2.27	0.50
2:O:733:VAL:HG12	2:O:738:PRO:HA	1.93	0.50
2:O:756:ARG:HH21	3:e:66:ARG:HH12	1.58	0.50
2:P:908:PRO:HB3	2:P:1123:ARG:HH12	1.76	0.50
4:g:188:ILE:HA	4:g:247:VAL:O	2.10	0.50
5:i:10:CYS:HB2	5:i:81:ILE:HB	1.93	0.50
5:r:14:HIS:ND1	5:r:15:LYS:O	2.42	0.50
5:t:117:GLY:N	5:t:118:PRO:HD2	2.26	0.50
2:A:564:GLY:H	2:A:567:PRO:HG3	1.76	0.50
2:C:733:VAL:HG23	2:C:738:PRO:HA	1.94	0.50
2:D:1101:ARG:HH11	2:E:214:ASN:ND2	2.08	0.50
2:E:566:ALA:HB1	2:E:571:HIS:CE1	2.46	0.50
2:E:1348:GLU:H	2:E:1355:VAL:HB	1.77	0.50
2:G:451:HIS:HA	2:G:1114:PHE:HE1	1.76	0.50
2:I:212:ARG:HH12	2:I:1204:PRO:HD3	1.76	0.50
2:I:1035:THR:HG21	2:I:1176:LEU:HD12	1.93	0.50
2:K:84:ASN:O	5:t:78:GLY:HA3	2.11	0.50
2:K:1325:LEU:HD22	2:K:1344:PHE:HD1	1.75	0.50
2:L:440:ILE:HG12	2:L:1108:VAL:HG11	1.93	0.50
2:M:975:LEU:HB3	2:M:979:PHE:HB2	1.94	0.50
2:N:514:GLN:HE22	2:N:562:PRO:HA	1.77	0.50
2:O:536:PHE:O	2:O:555:ARG:N	2.34	0.50
2:O:1189:PRO:HA	2:O:1323:PRO:HD3	1.94	0.50
3:V:29:PRO:HB2	3:V:31:GLU:HG2	1.93	0.50
4:m:247:VAL:HG11	4:m:286:PHE:CD1	2.47	0.50
1:7:194:THR:HB	5:u:164:GLU:HG2	1.94	0.50
2:C:812:PHE:HB2	3:S:65:LEU:HD21	1.93	0.50
2:D:212:ARG:HD3	2:D:1200:LEU:O	2.11	0.50
2:D:318:TYR:CE2	2:D:320:SER:HB3	2.47	0.50
2:D:861:VAL:HG13	2:D:865:ALA:HB3	1.93	0.50
2:D:927:PRO:HD2	2:D:952:LEU:HD11	1.92	0.50
2:E:578:ILE:HD13	2:E:1028:ILE:HG12	1.94	0.50
2:F:684:VAL:O	2:F:687:ILE:HG22	2.12	0.50
2:F:1193:ARG:HG2	2:F:1266:PHE:CE1	2.47	0.50
2:F:1193:ARG:HG2	2:F:1266:PHE:HE1	1.77	0.50
2:G:514:GLN:NE2	2:G:563:ASP:OD2	2.40	0.50
2:G:803:ASN:HD22	2:G:889:HIS:CD2	2.29	0.50
2:J:397:VAL:HG13	2:J:1034:LEU:HB2	1.94	0.50
2:J:1228:THR:HG23	2:J:1234:SER:HB3	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1268:THR:HA	2:J:1271:ILE:HG22	1.93	0.50
2:M:572:GLU:OE2	2:M:994:TYR:OH	2.30	0.50
2:N:440:ILE:HD13	2:N:1108:VAL:HG12	1.92	0.50
2:N:626:LEU:HD13	2:N:881:LEU:HB3	1.93	0.50
2:N:651:TYR:HA	2:N:654:VAL:HG12	1.93	0.50
2:N:1103:ARG:HH21	2:O:210:ILE:HD12	1.77	0.50
5:i:263:ASP:OD2	5:i:267:ARG:NH2	2.45	0.50
1:9:159:LEU:HD23	1:9:190:ARG:HH22	1.77	0.50
2:B:433:ARG:HD2	2:B:1105:ASP:HA	1.94	0.50
2:B:662:ALA:O	2:C:642:ARG:NH2	2.45	0.50
2:C:710:LEU:HB2	2:C:1012:LEU:HD23	1.94	0.50
2:E:128:PRO:HG3	2:F:108:THR:HG21	1.94	0.50
2:E:571:HIS:ND1	2:E:1011:MET:SD	2.85	0.50
2:E:966:TYR:HB3	2:E:973:PHE:HB3	1.93	0.50
2:E:1004:SER:HA	2:E:1007:THR:HG22	1.93	0.50
2:F:653:LEU:O	2:F:657:ILE:HG12	2.12	0.50
2:G:698:LEU:HD21	2:G:1127:VAL:HG22	1.93	0.50
2:H:1244:TYR:HB2	2:H:1266:PHE:HD2	1.77	0.50
2:I:1177:THR:HG1	2:I:1180:THR:HG1	1.60	0.50
2:K:399:LEU:HD23	2:K:1033:ALA:HB1	1.93	0.50
2:N:342:ASP:O	2:N:344:LEU:N	2.42	0.50
2:O:733:VAL:HG12	2:O:739:LEU:H	1.76	0.50
4:g:220:ARG:NE	5:h:199:THR:HB	2.26	0.50
5:i:109:CYS:HA	5:i:287:VAL:HG22	1.94	0.50
4:m:211:HIS:CD2	4:m:213:GLN:HB2	2.47	0.50
1:0:118:VAL:O	1:0:214:ARG:NH1	2.44	0.50
1:7:16:LEU:HD13	1:7:58:LEU:HD21	1.94	0.50
2:A:769:ASP:OD1	2:A:770:ASP:N	2.45	0.50
2:A:1119:MET:HG3	2:A:1253:GLY:HA3	1.94	0.50
2:B:96:GLN:HE21	2:G:166:ASN:HB2	1.77	0.50
2:C:180:LEU:HD23	2:C:384:PRO:HG2	1.93	0.50
2:C:1298:ASP:HB2	2:D:209:ARG:NH2	2.26	0.50
2:D:1109:ARG:HH21	2:D:1169:LYS:HB3	1.77	0.50
2:E:651:TYR:HA	2:E:654:VAL:HG12	1.92	0.50
2:H:63:TRP:CZ3	2:H:169:ASP:HB2	2.47	0.50
2:I:1167:GLY:HA2	2:J:210:ILE:HG23	1.94	0.50
2:I:1214:ILE:HD13	2:I:1268:THR:HG23	1.93	0.50
2:J:698:LEU:O	2:J:700:GLU:N	2.44	0.50
2:J:1060:ASN:O	2:J:1079:GLN:NE2	2.37	0.50
2:J:1244:TYR:HB2	2:J:1266:PHE:HD2	1.76	0.50
2:K:314:THR:O	2:K:319:HIS:N	2.44	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1268:THR:HA	2:M:1271:ILE:HG22	1.94	0.50
2:N:91:MET:HE1	2:N:1086:MET:HG2	1.94	0.50
2:N:455:HIS:NE2	2:N:1017:PRO:HB3	2.27	0.50
2:O:633:ARG:HH11	2:O:870:THR:HG21	1.77	0.50
4:m:247:VAL:HG22	4:m:288:GLU:HG3	1.94	0.50
5:q:104:LYS:HE3	5:r:36:GLN:HG2	1.93	0.50
5:r:31:VAL:HG21	5:r:137:ILE:HD11	1.93	0.50
4:s:220:ARG:HG2	4:s:227:ARG:NH2	2.25	0.50
1:w:181:VAL:HG21	1:w:209:LEU:HD11	1.94	0.50
2:B:705:ALA:HA	2:B:711:HIS:HB2	1.92	0.50
2:B:1071:ILE:HD11	4:g:162:VAL:HG22	1.94	0.50
2:E:232:ARG:HG3	2:E:233:THR:HG23	1.93	0.50
2:F:1101:ARG:NH1	2:G:199:ASN:HD21	2.05	0.50
2:H:382:LYS:NZ	2:H:386:GLU:OE1	2.38	0.50
2:H:556:ILE:HG21	2:H:986:TRP:CZ3	2.47	0.50
2:H:798:CYS:HA	2:H:943:TYR:HA	1.94	0.50
2:K:212:ARG:NH2	2:K:1204:PRO:HD3	2.23	0.50
2:L:51:GLU:OE2	2:M:90:LYS:NZ	2.38	0.50
2:L:457:PRO:HG3	2:L:907:LEU:HG	1.93	0.50
2:N:271:GLY:HA2	2:N:1051:GLY:HA2	1.93	0.50
2:N:797:ALA:O	2:N:943:TYR:HA	2.11	0.50
2:O:32:PHE:HB2	2:O:35:LEU:HD23	1.94	0.50
2:O:1214:ILE:HG23	2:O:1215:TYR:CD2	2.46	0.50
5:k:238:LEU:HD22	5:l:210:LEU:HB2	1.94	0.50
5:o:151:LEU:HD11	5:o:281:LEU:HD13	1.94	0.50
4:p:52:VAL:HG21	4:p:146:LEU:HD12	1.94	0.50
1:2:164:VAL:HA	1:2:167:ILE:HG22	1.93	0.50
1:8:20:LEU:HB3	1:8:65:GLU:HG3	1.93	0.50
1:9:84:CYS:O	1:9:109:LEU:HD21	2.11	0.50
2:D:453:VAL:HA	2:D:456:GLU:HG2	1.93	0.50
2:E:1037:VAL:HG23	2:E:1172:CYS:HB3	1.94	0.50
2:F:664:GLY:O	2:F:666:LEU:N	2.45	0.50
2:H:452:PRO:HG3	2:H:1122:TYR:CE2	2.47	0.50
2:H:710:LEU:HB2	2:H:1012:LEU:HD23	1.93	0.50
2:I:537:PHE:HA	2:I:554:PRO:HA	1.93	0.50
2:I:945:ASN:ND2	2:I:947:THR:OG1	2.45	0.50
2:K:688:SER:HB3	2:K:708:ASN:HD22	1.77	0.50
2:L:854:GLY:O	2:L:858:THR:OG1	2.23	0.50
2:M:457:PRO:HD3	2:M:537:PHE:CZ	2.46	0.50
2:P:536:PHE:HE1	2:P:1032:PHE:CZ	2.30	0.50
4:g:241:ILE:HD13	5:h:266:ALA:O	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o:226:ASP:OD2	5:o:229:MET:N	2.45	0.50
1:3:53:PHE:HE1	1:3:271:LEU:HD21	1.76	0.49
1:9:235:LEU:HD23	1:9:254:LEU:HD21	1.94	0.49
2:A:1047:LEU:HG	2:A:1097:ALA:HB2	1.94	0.49
2:B:1104:THR:HG22	2:B:1106:MET:H	1.77	0.49
2:D:698:LEU:HD11	2:D:1127:VAL:HA	1.93	0.49
2:D:1322:LEU:HD13	2:D:1360:ILE:HD12	1.94	0.49
2:F:232:ARG:NH2	2:F:1360:ILE:HG23	2.27	0.49
2:G:681:LEU:HB3	2:G:780:LEU:HD22	1.93	0.49
2:K:611:TYR:HH	2:K:925:THR:HG1	1.55	0.49
2:K:867:ASP:OD1	2:K:868:ALA:N	2.45	0.49
2:L:1152:THR:HG23	4:j:110:ALA:HA	1.94	0.49
2:N:341:ASN:OD1	2:N:342:ASP:N	2.42	0.49
2:N:556:ILE:HG21	2:N:986:TRP:HZ3	1.77	0.49
2:O:719:PHE:HE2	2:O:922:CYS:HB2	1.77	0.49
2:P:535:PRO:HB3	2:P:1232:TRP:CZ2	2.47	0.49
5:n:13:ASP:OD1	5:n:14:HIS:N	2.45	0.49
1:v:174:VAL:HG11	1:v:209:LEU:HD12	1.93	0.49
2:A:567:PRO:HG2	2:A:1179:VAL:HG11	1.94	0.49
2:A:716:TRP:CZ3	2:A:895:VAL:HG21	2.47	0.49
2:A:1059:ILE:HA	2:A:1081:ILE:HG22	1.93	0.49
2:B:1157:SER:HB3	2:B:1258:PHE:HZ	1.76	0.49
2:C:747:ARG:HB2	2:C:767:PHE:HB3	1.92	0.49
2:C:1177:THR:HG22	2:C:1232:TRP:CZ3	2.46	0.49
2:D:3:ASN:ND2	2:E:317:SER:O	2.46	0.49
2:E:583:ARG:HH22	2:F:569:PRO:HD3	1.77	0.49
2:H:642:ARG:HD3	2:H:644:LEU:HD21	1.92	0.49
2:H:823:ALA:O	3:X:74:ARG:NH2	2.44	0.49
2:H:1297:THR:O	2:I:210:ILE:HD11	2.12	0.49
2:I:341:ASN:OD1	2:I:342:ASP:N	2.45	0.49
2:I:513:LYS:NZ	2:I:532:GLU:OE2	2.38	0.49
2:J:455:HIS:NE2	2:J:1017:PRO:HB3	2.27	0.49
2:J:1041:THR:N	2:J:1104:THR:OG1	2.40	0.49
2:M:1195:ARG:NH1	2:M:1227:ALA:O	2.46	0.49
2:N:690:LEU:HD13	2:N:693:LEU:HD12	1.94	0.49
2:N:739:LEU:HD22	2:N:766:LEU:HD21	1.94	0.49
2:N:1027:HIS:HE1	2:O:520:ASP:HB2	1.77	0.49
5:h:93:THR:OG1	5:h:299:SER:OG	2.30	0.49
5:k:58:TYR:CE1	5:k:112:PRO:HB2	2.47	0.49
1:w:164:VAL:HA	1:w:167:ILE:HG22	1.93	0.49
1:y:140:VAL:HG21	1:y:158:HIS:CD2	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:67:ARG:NH2	1:z:262:ASP:OD1	2.45	0.49
1:6:98:ASP:OD1	1:6:98:ASP:N	2.44	0.49
1:7:81:GLU:OE1	1:8:191:HIS:NE2	2.33	0.49
1:8:95:PRO:HB3	4:s:196:PRO:HB3	1.94	0.49
2:A:1312:GLU:O	2:A:1316:ARG:N	2.45	0.49
2:B:518:VAL:HB	2:B:1179:VAL:HG11	1.94	0.49
2:B:534:HIS:CD2	2:B:536:PHE:HB2	2.47	0.49
2:B:626:LEU:HD12	2:B:885:PHE:HE2	1.77	0.49
2:D:200:ALA:HA	2:L:21:THR:HG22	1.94	0.49
2:D:291:ILE:HG12	2:D:360:ILE:HG22	1.94	0.49
2:D:786:LEU:HD22	2:D:1012:LEU:HD11	1.95	0.49
2:E:296:VAL:HB	2:E:357:MET:HE3	1.93	0.49
2:E:505:VAL:HB	2:E:974:PRO:HG3	1.94	0.49
2:H:207:LEU:HD13	2:H:212:ARG:HB3	1.94	0.49
2:H:653:LEU:O	2:H:657:ILE:HG12	2.12	0.49
2:J:716:TRP:NE1	2:J:895:VAL:HG11	2.27	0.49
2:L:114:ILE:HG12	2:N:37:ILE:HG22	1.94	0.49
2:L:475:MET:SD	2:L:1218:ARG:NH2	2.85	0.49
2:L:1101:ARG:HH22	2:M:202:LEU:HD22	1.77	0.49
2:L:1264:GLN:OE1	2:L:1313:ASN:ND2	2.45	0.49
2:M:1191:ASN:ND2	2:M:1197:SER:OG	2.46	0.49
2:O:342:ASP:O	2:O:344:LEU:N	2.40	0.49
2:O:1035:THR:HG21	2:O:1176:LEU:HD12	1.94	0.49
5:i:48:LEU:HD11	5:i:65:LEU:HD13	1.94	0.49
4:j:175:TRP:HZ3	4:j:222:LYS:HD3	1.78	0.49
4:m:185:VAL:HG22	4:m:206:THR:HG22	1.93	0.49
5:q:281:LEU:HD12	5:q:282:ILE:HG23	1.94	0.49
1:0:4:GLN:H	1:0:57:MET:HE2	1.78	0.49
1:7:74:SER:HA	1:7:77:LEU:HB3	1.94	0.49
2:A:762:ALA:O	2:A:891:LYS:NZ	2.45	0.49
2:A:1037:VAL:HG23	2:A:1261:PRO:HG2	1.93	0.49
2:B:941:ARG:HD2	2:B:982:GLU:CG	2.42	0.49
2:D:545:ASN:O	2:D:547:GLU:N	2.43	0.49
2:F:578:ILE:HD13	2:F:1028:ILE:HG12	1.94	0.49
2:F:1327:THR:HG22	2:F:1355:VAL:HG22	1.95	0.49
2:H:983:TYR:O	2:H:988:ARG:NH2	2.46	0.49
2:K:606:TYR:HH	2:K:610:CYS:HG	1.59	0.49
2:M:708:ASN:HB3	2:M:711:HIS:HD2	1.77	0.49
2:M:895:VAL:HB	2:M:914:GLN:HB2	1.94	0.49
2:N:1362:LEU:HD12	2:N:1363:GLN:HG3	1.95	0.49
2:O:657:ILE:HG23	2:O:661:LEU:HD22	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:33:PRO:HB2	5:k:68:MET:HE2	1.95	0.49
4:m:211:HIS:NE2	5:n:66:ARG:HD3	2.26	0.49
4:m:220:ARG:HH12	5:n:199:THR:HB	1.77	0.49
2:B:645:LEU:HD13	2:B:674:TYR:HE1	1.77	0.49
2:C:94:HIS:HA	2:C:115:MET:HG2	1.93	0.49
2:F:687:ILE:HD13	2:F:1006:MET:HB3	1.92	0.49
2:G:274:VAL:HG12	2:G:370:GLU:HB3	1.93	0.49
2:G:1196:ALA:HB3	2:G:1222:ALA:HB3	1.94	0.49
2:G:1250:GLU:HA	2:G:1254:TYR:HE1	1.76	0.49
2:H:125:ILE:HG22	2:I:103:GLY:HA2	1.94	0.49
2:H:1065:THR:HG22	2:H:1076:HIS:O	2.13	0.49
2:M:562:PRO:O	2:M:566:ALA:N	2.43	0.49
2:M:1291:ASP:HB3	2:M:1316:ARG:HH22	1.77	0.49
2:N:102:SER:HB3	2:N:108:THR:HG22	1.95	0.49
2:O:1247:ARG:HG3	2:O:1269:GLU:HG3	1.94	0.49
5:k:146:ILE:HD11	5:k:184:ILE:HG12	1.94	0.49
5:l:48:LEU:HB3	5:l:133:VAL:HG23	1.94	0.49
5:n:107:ALA:HB1	5:n:286:VAL:CG1	2.42	0.49
4:s:193:TYR:OH	4:s:243:LEU:O	2.28	0.49
5:t:116:HIS:CG	5:t:117:GLY:H	2.29	0.49
1:v:167:ILE:HD11	1:v:205:TYR:HD1	1.77	0.49
1:z:194:THR:HG22	1:z:196:LEU:H	1.77	0.49
1:1:63:TYR:HE1	1:1:221:GLU:HG3	1.77	0.49
1:4:235:LEU:HD23	1:4:254:LEU:HD21	1.94	0.49
2:C:269:ILE:HG12	2:C:368:ILE:HD11	1.94	0.49
2:C:433:ARG:O	2:C:1367:LEU:HD21	2.11	0.49
2:C:494:ARG:HA	2:C:497:HIS:HD2	1.78	0.49
2:F:555:ARG:HH21	2:F:561:LEU:HD23	1.76	0.49
2:F:616:LEU:HB3	2:F:882:ALA:HB1	1.95	0.49
2:I:601:VAL:HG23	2:I:924:VAL:HG21	1.95	0.49
2:J:64:VAL:HG11	2:J:375:VAL:HG12	1.94	0.49
2:M:212:ARG:NH2	2:M:1202:VAL:O	2.45	0.49
2:M:884:GLN:O	3:c:66:ARG:NH2	2.45	0.49
2:O:396:PRO:HB3	2:O:1186:PHE:CZ	2.47	0.49
2:P:450:CYS:SG	2:P:1131:ILE:HD12	2.53	0.49
3:Q:41:ALA:HA	3:Q:44:LEU:HG	1.94	0.49
3:R:18:HIS:CE1	3:R:44:LEU:HB3	2.48	0.49
3:a:15:ASP:HA	3:a:18:HIS:HD2	1.77	0.49
5:l:246:SER:HA	1:z:82:VAL:HG11	1.94	0.49
4:p:90:ARG:HG2	4:p:118:LEU:HD23	1.94	0.49
4:p:127:ARG:HH12	5:r:144:LEU:HD13	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:206:THR:O	1:y:210:ILE:HG12	2.12	0.49
1:4:52:LEU:HD13	1:4:234:LEU:HB3	1.93	0.49
2:A:710:LEU:HD11	2:A:783:VAL:HG22	1.94	0.49
2:C:488:MET:HG3	2:C:894:GLU:HB2	1.94	0.49
2:D:1265:TYR:OH	2:D:1320:GLU:O	2.29	0.49
2:E:125:ILE:HG13	2:E:1079:GLN:HB3	1.93	0.49
2:E:1060:ASN:O	2:E:1079:GLN:NE2	2.32	0.49
2:E:1342:GLY:H	2:E:1364:GLN:HG2	1.77	0.49
2:G:693:LEU:HD23	2:G:1025:LYS:HB3	1.94	0.49
2:G:1290:LYS:HE2	2:G:1310:LEU:HB2	1.95	0.49
2:H:1193:ARG:NH2	2:H:1195:ARG:O	2.46	0.49
2:H:1244:TYR:HA	2:H:1249:ARG:HH21	1.75	0.49
2:I:1177:THR:HG22	2:I:1232:TRP:HZ3	1.77	0.49
2:J:519:THR:O	2:J:523:LYS:NZ	2.46	0.49
2:J:1325:LEU:HD22	2:J:1344:PHE:HD2	1.78	0.49
2:K:319:HIS:CE1	5:t:18:ILE:HG21	2.48	0.49
2:K:805:LYS:H	2:K:889:HIS:CE1	2.27	0.49
2:K:1057:VAL:HG12	2:K:1083:THR:HG22	1.93	0.49
2:L:299:PRO:HA	2:L:352:LEU:HD23	1.94	0.49
2:N:1004:SER:O	2:N:1007:THR:HG22	2.12	0.49
2:P:1038:ARG:NH1	2:P:1106:MET:O	2.46	0.49
5:i:214:LEU:HD21	5:i:267:ARG:HD2	1.95	0.49
5:n:291:CYS:SG	5:n:292:ASP:N	2.82	0.49
5:q:35:PRO:HG3	5:q:50:GLN:HE22	1.77	0.49
1:3:103:ARG:NE	5:n:159:ASP:OD2	2.44	0.49
1:5:92:TYR:CE1	1:5:106:LEU:HD13	2.48	0.49
1:8:49:ARG:HG2	1:8:238:GLU:HB3	1.95	0.49
2:B:813:TYR:OH	3:R:26:LEU:O	2.28	0.49
2:B:941:ARG:NH1	2:B:992:SER:HB3	2.28	0.49
2:D:534:HIS:ND1	2:D:535:PRO:HD2	2.28	0.49
2:D:884:GLN:HA	3:T:66:ARG:HB2	1.95	0.49
2:D:1365:SER:O	2:D:1369:ASN:N	2.44	0.49
2:E:360:ILE:HD13	2:E:369:MET:HE3	1.94	0.49
2:F:180:LEU:HD23	2:F:384:PRO:HG2	1.94	0.49
2:F:1040:ASP:HA	2:F:1104:THR:HG21	1.93	0.49
2:F:1362:LEU:HB2	2:F:1366:MET:HE2	1.94	0.49
2:G:37:ILE:HD12	2:G:45:ARG:HB3	1.95	0.49
2:G:419:THR:OG1	2:G:422:ASN:ND2	2.43	0.49
2:I:220:LYS:HE3	2:I:1320:GLU:HG3	1.95	0.49
2:I:227:LEU:HD21	2:I:391:LEU:HD21	1.95	0.49
2:I:399:LEU:HD23	2:I:1033:ALA:HB1	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1190:ASN:OD1	2:K:1191:ASN:N	2.45	0.49
2:L:97:VAL:HG11	2:N:24:LYS:HZ2	1.78	0.49
2:L:1221:ASP:OD1	2:L:1222:ALA:N	2.46	0.49
5:k:107:ALA:O	5:k:140:MET:N	2.46	0.49
4:s:249:GLN:HB3	4:s:286:PHE:HA	1.94	0.49
5:t:16:LEU:HD13	5:t:21:VAL:HB	1.93	0.49
1:w:123:GLU:O	1:w:127:ARG:NE	2.46	0.49
1:x:229:GLN:HA	1:x:258:VAL:HG21	1.94	0.49
1:4:92:TYR:OH	1:4:110:ASP:OD2	2.31	0.49
2:A:567:PRO:CD	2:A:1179:VAL:HG21	2.42	0.49
2:A:587:PRO:HD3	2:A:683:LEU:HD11	1.95	0.49
2:A:813:TYR:OH	3:Q:26:LEU:O	2.26	0.49
2:B:408:THR:HG23	2:B:1350:HIS:ND1	2.28	0.49
2:B:1215:TYR:CD1	2:B:1236:ALA:HB2	2.47	0.49
2:C:559:GLY:HA3	2:C:1011:MET:HB3	1.94	0.49
2:E:416:LEU:HD21	2:E:1329:THR:HG21	1.94	0.49
2:G:535:PRO:HB3	2:G:1232:TRP:CH2	2.48	0.49
2:G:536:PHE:HB3	2:G:1015:ILE:HD13	1.94	0.49
2:G:1224:THR:HG21	2:G:1229:HIS:NE2	2.28	0.49
2:H:1163:ALA:HB2	2:I:1213:ALA:HB1	1.94	0.49
2:I:556:ILE:O	2:I:1015:ILE:HG13	2.12	0.49
2:J:554:PRO:O	2:J:988:ARG:NH2	2.44	0.49
2:J:723:LEU:HG	2:J:768:VAL:HG21	1.95	0.49
2:K:208:ASN:HB2	2:K:211:GLN:HG2	1.95	0.49
2:K:373:ARG:NH1	2:L:201:THR:HG21	2.27	0.49
2:K:1289:ALA:O	2:K:1316:ARG:NH1	2.45	0.49
2:O:311:ASN:HB3	2:O:321:ILE:HD12	1.94	0.49
2:O:1103:ARG:HA	2:P:214:ASN:HD21	1.77	0.49
5:o:214:LEU:HD11	5:o:267:ARG:HD3	1.94	0.49
4:p:82:ILE:HG23	4:p:86:LEU:HD22	1.94	0.49
1:z:28:ASP:HA	1:z:176:ARG:HB3	1.95	0.49
1:9:49:ARG:HG2	1:9:238:GLU:HB3	1.94	0.49
2:A:182:THR:HG21	2:A:1083:THR:HG21	1.95	0.49
2:A:470:PRO:HD2	2:A:479:LEU:HD11	1.94	0.49
2:A:1113:LEU:HA	2:A:1116:VAL:HB	1.95	0.49
2:B:446:LEU:HD21	2:B:1021:VAL:HG13	1.94	0.49
2:D:313:VAL:HG22	2:M:332:LEU:HD12	1.95	0.49
2:D:478:LEU:HD21	2:D:509:VAL:HG13	1.93	0.49
2:E:1119:MET:HG3	2:E:1253:GLY:HA3	1.95	0.49
2:E:1189:PRO:HB3	2:E:1323:PRO:HD3	1.95	0.49
2:H:572:GLU:OE2	2:M:583:ARG:NH2	2.46	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1221:ASP:OD1	2:H:1222:ALA:N	2.46	0.49
2:I:190:TYR:HB2	2:I:1095:CYS:HB3	1.95	0.49
2:O:611:TYR:CZ	2:O:923:VAL:HG13	2.48	0.49
2:O:1177:THR:HG22	2:O:1232:TRP:CZ3	2.48	0.49
2:P:553:THR:HG21	2:P:983:TYR:HB3	1.94	0.49
3:Y:25:VAL:HA	3:Y:57:LYS:HD2	1.95	0.49
4:g:58:GLU:C	4:g:60:GLU:H	2.21	0.49
4:j:78:ARG:HH11	5:l:178:ARG:HD2	1.77	0.49
4:j:220:ARG:NH1	5:k:199:THR:OG1	2.46	0.49
4:s:248:ILE:HG13	4:s:289:PHE:CE1	2.47	0.49
1:y:228:ILE:HB	1:y:258:VAL:HG11	1.95	0.49
1:l:66:LEU:HB3	1:l:217:TRP:CH2	2.48	0.48
2:D:190:TYR:HD2	2:D:226:THR:HG21	1.77	0.48
2:D:461:LEU:HD13	2:D:552:CYS:HB2	1.95	0.48
2:F:936:PRO:HD3	2:F:952:LEU:HD22	1.93	0.48
2:H:59:ASN:HD22	2:I:95:VAL:HA	1.77	0.48
2:H:99:ARG:NH1	2:H:111:GLN:HB3	2.28	0.48
2:J:606:TYR:HB3	2:J:925:THR:HG21	1.95	0.48
2:K:668:PRO:HB2	2:L:643:GLN:HG3	1.95	0.48
2:K:1066:LYS:HG3	2:K:1075:TYR:HE1	1.78	0.48
2:L:1189:PRO:HA	2:L:1323:PRO:HD3	1.95	0.48
2:M:209:ARG:O	2:M:212:ARG:HG2	2.13	0.48
2:M:633:ARG:HH22	2:M:870:THR:HG21	1.78	0.48
2:N:556:ILE:HG21	2:N:986:TRP:CZ3	2.48	0.48
2:O:666:LEU:HD12	2:O:671:LEU:HD12	1.95	0.48
4:g:263:PHE:HA	4:g:272:SER:HA	1.94	0.48
5:i:262:ASP:HA	5:i:265:ILE:HD12	1.94	0.48
5:k:198:LYS:NZ	5:l:227:SER:OG	2.43	0.48
5:l:175:ILE:HB	5:l:177:PHE:HE2	1.77	0.48
2:A:890:VAL:HG11	2:A:935:LEU:HD23	1.95	0.48
2:A:1061:ASN:OD1	2:A:1062:PRO:HD2	2.13	0.48
2:C:211:GLN:O	2:C:215:ILE:HG12	2.13	0.48
2:C:631:VAL:HG23	2:C:647:PHE:CE2	2.48	0.48
2:D:115:MET:HE2	2:L:4:TRP:HE3	1.78	0.48
2:E:1235:GLN:HB2	2:E:1238:CYS:HB3	1.95	0.48
2:F:188:PRO:HG3	2:F:1090:TYR:CD2	2.48	0.48
2:I:1214:ILE:HG21	2:I:1272:ILE:HD11	1.94	0.48
2:L:693:LEU:HB3	2:L:1022:LEU:HD11	1.95	0.48
2:N:431:LEU:HD22	2:N:435:ARG:HA	1.95	0.48
2:O:434:ASP:HA	2:O:1367:LEU:HD21	1.94	0.48
2:P:1040:ASP:HA	2:P:1104:THR:HG21	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:188:VAL:HG12	5:h:189:ILE:HG12	1.95	0.48
4:s:236:THR:HG22	4:s:237:ARG:HG3	1.95	0.48
1:w:102:ALA:HB2	1:w:138:MET:HE1	1.94	0.48
1:0:98:ASP:N	1:0:98:ASP:OD1	2.47	0.48
2:A:594:LEU:HD22	2:A:792:MET:HE3	1.95	0.48
2:A:630:PHE:HZ	2:A:865:ALA:HB1	1.79	0.48
2:B:128:PRO:HB3	2:B:1076:HIS:CE1	2.48	0.48
2:B:544:GLU:HB3	2:B:547:GLU:HB2	1.94	0.48
2:D:360:ILE:HG21	2:D:369:MET:HE2	1.95	0.48
2:D:559:GLY:HA3	2:D:1011:MET:HB3	1.96	0.48
2:D:1156:MET:HE3	2:D:1257:LYS:HD3	1.96	0.48
2:D:1336:LYS:HE3	2:D:1355:VAL:HG11	1.96	0.48
2:F:124:PRO:HG2	2:G:104:ALA:HB2	1.96	0.48
2:F:1174:LEU:HD11	2:F:1262:CYS:SG	2.54	0.48
2:G:216:LEU:HD22	2:G:1200:LEU:HB2	1.95	0.48
2:H:1156:MET:SD	2:H:1294:ARG:NH1	2.86	0.48
2:H:1164:THR:O	2:I:213:SER:HB3	2.13	0.48
2:H:1323:PRO:HG2	2:H:1359:ILE:HB	1.95	0.48
2:I:391:LEU:HD23	2:I:1322:LEU:HD12	1.94	0.48
2:I:663:ASP:HA	2:J:642:ARG:NH1	2.29	0.48
2:I:698:LEU:HB2	2:I:706:TYR:CE2	2.48	0.48
2:K:808:LEU:HD21	2:K:886:VAL:HG21	1.94	0.48
2:L:188:PRO:HA	2:L:1286:LEU:HD21	1.95	0.48
2:L:264:SER:OG	2:L:294:GLU:OE2	2.27	0.48
2:L:535:PRO:HD2	2:L:1239:LEU:HD23	1.94	0.48
5:h:71:THR:HA	5:h:86:PRO:HD3	1.94	0.48
5:h:272:PHE:HE1	5:i:204:MET:HE1	1.78	0.48
5:k:140:MET:HE3	5:k:144:LEU:HD21	1.94	0.48
5:n:273:VAL:HG22	5:n:276:ARG:HH21	1.77	0.48
5:q:280:ASP:HA	5:q:283:ARG:HB2	1.94	0.48
4:s:181:ARG:HB3	5:t:4:MET:HE3	1.96	0.48
1:y:63:TYR:HE1	1:y:221:GLU:HG3	1.78	0.48
1:2:166:ARG:HH22	1:2:186:LEU:HD22	1.78	0.48
1:2:235:LEU:HD23	1:2:254:LEU:HD21	1.94	0.48
2:A:432:ASN:HB2	2:A:434:ASP:OD1	2.13	0.48
2:A:484:GLN:HB3	2:A:977:THR:HB	1.93	0.48
2:B:450:CYS:O	2:B:1122:TYR:OH	2.32	0.48
2:D:212:ARG:NH2	2:D:1204:PRO:HD3	2.27	0.48
2:E:437:VAL:HB	2:F:1184:ASN:OD1	2.13	0.48
2:E:1193:ARG:HG2	2:E:1266:PHE:HE1	1.78	0.48
2:F:430:LEU:HD12	2:F:1108:VAL:HG22	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:312:ALA:O	2:G:316:ILE:HG12	2.14	0.48
2:G:1103:ARG:O	2:G:1167:GLY:HA3	2.14	0.48
2:I:657:ILE:HD12	2:I:661:LEU:HD22	1.93	0.48
2:K:853:VAL:HB	2:K:857:LEU:HD23	1.95	0.48
2:K:1124:HIS:HE1	2:K:1126:GLU:HB3	1.78	0.48
2:M:731:GLN:HB2	2:M:896:ARG:HB2	1.96	0.48
2:O:388:ASN:OD1	2:O:388:ASN:N	2.46	0.48
2:O:601:VAL:HG23	2:O:924:VAL:HG21	1.94	0.48
2:O:941:ARG:NH1	2:O:982:GLU:HG3	2.27	0.48
2:P:1362:LEU:O	2:P:1366:MET:HB2	2.13	0.48
3:f:29:PRO:HG2	3:f:32:ILE:HG12	1.96	0.48
5:h:35:PRO:HG3	5:h:50:GLN:HE22	1.78	0.48
5:k:108:LEU:HD12	5:k:288:PHE:HB2	1.95	0.48
5:k:200:ALA:O	5:k:204:MET:HG2	2.14	0.48
5:r:57:GLY:N	5:r:196:ASP:OD2	2.46	0.48
1:v:244:SER:O	1:v:248:ASN:N	2.38	0.48
2:A:630:PHE:CZ	2:A:865:ALA:HB1	2.48	0.48
2:A:884:GLN:O	3:Q:66:ARG:NH2	2.46	0.48
2:B:710:LEU:HB2	2:B:1012:LEU:HD23	1.94	0.48
2:C:359:VAL:HG12	2:C:368:ILE:HD13	1.95	0.48
2:C:631:VAL:HG13	2:C:661:LEU:HD21	1.96	0.48
2:E:396:PRO:HB3	2:E:1186:PHE:CE1	2.48	0.48
2:E:433:ARG:HH12	2:F:217:GLN:HB2	1.78	0.48
2:F:254:ILE:HG22	2:F:1086:MET:HB3	1.95	0.48
2:H:15:ILE:HD12	2:H:16:PRO:HD2	1.94	0.48
2:H:1183:VAL:HG21	2:M:1330:LEU:HD13	1.95	0.48
2:K:12:LYS:HE3	2:O:94:HIS:ND1	2.29	0.48
2:K:184:LEU:HD23	2:K:1048:LEU:HD13	1.95	0.48
2:K:1121:VAL:HG12	2:K:1139:ARG:HH12	1.79	0.48
2:L:936:PRO:HD3	2:L:952:LEU:HD23	1.96	0.48
2:L:1069:ARG:HB2	2:L:1072:SER:O	2.14	0.48
2:M:300:ALA:N	2:M:351:SER:O	2.36	0.48
2:M:559:GLY:HA3	2:M:1011:MET:HB3	1.95	0.48
2:O:537:PHE:HA	2:O:554:PRO:HA	1.96	0.48
2:O:698:LEU:O	2:O:700:GLU:N	2.46	0.48
2:P:606:TYR:HB3	2:P:925:THR:HG21	1.95	0.48
2:P:727:MET:HB2	2:P:730:VAL:HB	1.95	0.48
5:q:4:MET:HB3	5:q:37:ARG:NE	2.14	0.48
5:r:73:MET:HA	5:r:83:LEU:HD23	1.96	0.48
4:s:155:TYR:HA	4:s:163:PHE:H	1.78	0.48
5:u:245:ARG:HD2	5:u:250:PRO:HD2	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:17:VAL:HG12	1:4:21:ARG:HH12	1.79	0.48
1:4:243:LEU:HD13	3:X:74:ARG:HA	1.96	0.48
1:6:140:VAL:HG21	1:6:158:HIS:NE2	2.27	0.48
2:A:502:ARG:HH22	2:A:958:ARG:HH21	1.62	0.48
2:B:97:VAL:HG12	2:B:113:THR:H	1.79	0.48
2:B:748:HIS:HA	1:w:256:HIS:HE1	1.79	0.48
2:D:995:SER:HA	2:D:998:CYS:HB2	1.95	0.48
2:D:1080:ASN:HD21	5:l:80:GLN:HE21	1.61	0.48
2:E:226:THR:HG23	2:E:229:LEU:HD21	1.95	0.48
2:E:647:PHE:HD1	2:E:653:LEU:HD13	1.77	0.48
2:G:625:LEU:HD11	2:G:660:HIS:CE1	2.49	0.48
2:G:1058:ILE:HG12	2:G:1082:ASN:O	2.13	0.48
2:H:607:PRO:HG3	2:H:638:MET:HE2	1.94	0.48
2:I:633:ARG:HH11	2:I:870:THR:HG21	1.79	0.48
2:I:1190:ASN:OD1	2:I:1191:ASN:N	2.46	0.48
2:J:642:ARG:HD3	2:J:644:LEU:HD21	1.94	0.48
2:J:690:LEU:HD13	2:J:693:LEU:HD12	1.95	0.48
2:K:280:MET:O	2:K:284:MET:HG2	2.13	0.48
2:K:716:TRP:NE1	2:K:895:VAL:HG11	2.28	0.48
2:L:272:VAL:HG23	2:L:368:ILE:HB	1.95	0.48
2:L:651:TYR:CD2	2:L:781:GLN:HG2	2.48	0.48
2:O:1221:ASP:OD1	2:O:1222:ALA:N	2.47	0.48
2:P:447:LYS:HD2	2:P:1112:ASP:HB3	1.96	0.48
5:i:235:GLN:HA	5:i:238:LEU:HB2	1.96	0.48
4:j:68:ILE:HD12	4:j:129:LEU:HD22	1.96	0.48
5:l:147:ASN:ND2	5:l:281:LEU:O	2.47	0.48
4:p:172:TYR:OH	4:p:179:ARG:NH2	2.46	0.48
5:q:218:TYR:HE2	5:r:202:LEU:HD12	1.79	0.48
5:t:60:ARG:HB3	5:t:192:HIS:ND1	2.29	0.48
5:t:103:GLU:H	5:t:178:ARG:NH1	2.11	0.48
1:4:129:LEU:HD11	1:4:207:GLY:HA3	1.95	0.48
1:5:195:ALA:HA	1:5:198:ASN:HD22	1.78	0.48
1:8:118:VAL:O	1:8:214:ARG:NH1	2.46	0.48
2:A:1244:TYR:HA	2:A:1249:ARG:HH21	1.79	0.48
2:B:556:ILE:HG21	2:B:986:TRP:CZ3	2.48	0.48
2:B:1244:TYR:HA	2:B:1249:ARG:HH21	1.78	0.48
2:C:1147:THR:HG23	2:C:1150:MET:HE2	1.94	0.48
2:D:452:PRO:HB3	2:D:905:GLN:HG2	1.96	0.48
2:F:194:GLN:HG3	2:F:222:LYS:HE2	1.96	0.48
2:G:710:LEU:HD21	2:G:783:VAL:HG22	1.96	0.48
2:H:583:ARG:NH2	2:I:572:GLU:OE2	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:565:LEU:HD22	2:J:1177:THR:HG21	1.95	0.48
2:J:606:TYR:HH	2:J:610:CYS:HG	1.53	0.48
2:J:718:PRO:HD2	2:J:785:TYR:HB2	1.96	0.48
2:K:173:ARG:HB3	2:L:100:VAL:HG23	1.95	0.48
2:K:798:CYS:HB2	2:K:945:ASN:H	1.79	0.48
2:L:941:ARG:NH1	2:L:982:GLU:HG3	2.23	0.48
2:M:512:MET:HE1	2:M:527:ILE:HD11	1.96	0.48
2:M:1172:CYS:SG	2:M:1173:GLU:N	2.87	0.48
2:O:881:LEU:HA	3:e:69:ALA:HB1	1.96	0.48
2:P:693:LEU:HD22	2:P:1025:LYS:HD2	1.95	0.48
3:R:22:VAL:HG13	3:R:28:LEU:HD12	1.96	0.48
4:g:56:LEU:HD11	4:g:82:ILE:HA	1.96	0.48
5:i:288:PHE:HB3	5:i:302:CYS:HB3	1.96	0.48
4:j:65:ALA:O	4:j:134:CYS:HA	2.14	0.48
5:k:115:PHE:HE2	5:k:185:PRO:HA	1.79	0.48
4:m:211:HIS:CD2	5:n:66:ARG:HD3	2.48	0.48
5:n:77:GLU:HG3	5:n:80:GLN:HB2	1.95	0.48
4:p:188:ILE:HD12	4:p:205:LEU:HD12	1.96	0.48
1:2:90:ARG:O	1:2:93:THR:OG1	2.25	0.48
1:3:166:ARG:HH22	1:3:187:ASN:HD21	1.60	0.48
1:5:124:ILE:HD13	1:5:127:ARG:HH21	1.79	0.48
2:A:45:ARG:HG3	2:A:46:TYR:CD2	2.49	0.48
2:B:1349:THR:HA	2:B:1354:TYR:HA	1.96	0.48
2:C:125:ILE:HG13	2:C:1079:GLN:HB3	1.96	0.48
2:C:688:SER:HB2	2:C:708:ASN:ND2	2.29	0.48
2:C:1111:GLN:NE2	2:C:1112:ASP:OD1	2.46	0.48
2:D:196:LEU:O	2:D:200:ALA:N	2.46	0.48
2:D:635:ILE:HG22	2:D:670:LEU:HD13	1.95	0.48
2:D:936:PRO:HD3	2:D:952:LEU:HB3	1.95	0.48
2:D:1193:ARG:NH2	2:D:1197:SER:HB3	2.29	0.48
2:E:53:ILE:HG22	2:E:55:GLY:H	1.79	0.48
2:I:433:ARG:O	2:I:1367:LEU:HD21	2.13	0.48
2:I:1139:ARG:O	2:I:1141:GLN:N	2.47	0.48
2:J:1250:GLU:HA	2:J:1254:TYR:HE1	1.79	0.48
2:K:63:TRP:HH2	2:K:165:LYS:HB3	1.78	0.48
2:K:216:LEU:HD13	2:K:1200:LEU:HD12	1.95	0.48
2:K:708:ASN:ND2	2:K:710:LEU:HB3	2.29	0.48
2:L:698:LEU:HB2	2:L:706:TYR:HE2	1.79	0.48
2:L:883:VAL:HG12	3:b:66:ARG:HB3	1.95	0.48
2:M:638:MET:HE1	2:M:642:ARG:NH2	2.29	0.48
2:M:1147:THR:O	2:M:1151:LEU:N	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:624:PHE:HZ	2:N:657:ILE:HD13	1.79	0.48
2:P:808:LEU:HD23	2:P:883:VAL:HG13	1.96	0.48
4:g:263:PHE:CZ	4:g:270:LYS:HB3	2.48	0.48
5:k:197:MET:O	5:k:201:CYS:N	2.41	0.48
4:s:241:ILE:HG21	5:t:267:ARG:HG2	1.95	0.48
1:y:235:LEU:HD23	1:y:254:LEU:HD21	1.95	0.48
1:3:227:ARG:NH2	1:3:231:ARG:HH22	2.12	0.48
1:4:22:HIS:O	1:4:26:LYS:HG2	2.14	0.48
2:A:495:ILE:HD11	2:A:938:PRO:HD2	1.94	0.48
2:B:94:HIS:HB2	2:G:57:PHE:HA	1.95	0.48
2:C:272:VAL:HA	2:C:368:ILE:HB	1.96	0.48
2:D:716:TRP:CZ2	2:D:730:VAL:HG11	2.48	0.48
2:E:280:MET:O	2:E:284:MET:HG2	2.14	0.48
2:E:1176:LEU:HD22	2:E:1230:ASN:HB3	1.96	0.48
2:J:608:GLU:CD	2:J:927:PRO:HA	2.39	0.48
2:K:1069:ARG:O	2:K:1071:ILE:N	2.47	0.48
2:L:1033:ALA:HB2	2:L:1178:PRO:HA	1.95	0.48
2:M:732:VAL:HG22	2:M:895:VAL:HG22	1.96	0.48
2:M:890:VAL:HA	2:M:919:ASN:HB3	1.96	0.48
2:N:127:ILE:HD11	2:O:101:ALA:HA	1.96	0.48
2:N:695:ASN:OD1	2:O:507:ARG:NH1	2.47	0.48
2:P:1195:ARG:NH1	2:P:1227:ALA:O	2.47	0.48
2:P:1250:GLU:HA	2:P:1254:TYR:HE1	1.77	0.48
5:h:33:PRO:HB2	5:h:68:MET:HE2	1.95	0.48
5:h:65:LEU:HD21	5:h:110:VAL:HG12	1.96	0.48
4:s:211:HIS:CD2	4:s:213:GLN:HB2	2.49	0.48
1:z:129:LEU:HD21	1:z:207:GLY:HA3	1.95	0.48
1:8:246:ASP:HB2	1:8:278:TYR:HA	1.95	0.48
2:C:680:VAL:O	2:C:684:VAL:HG23	2.14	0.48
2:C:1173:GLU:O	2:C:1244:TYR:OH	2.21	0.48
2:E:1195:ARG:NH1	2:E:1227:ALA:O	2.47	0.48
2:F:207:LEU:HD13	2:F:212:ARG:HB3	1.95	0.48
2:F:1348:GLU:HB2	2:F:1355:VAL:HB	1.95	0.48
2:J:518:VAL:HB	2:J:1179:VAL:HG11	1.96	0.48
2:K:557:VAL:HB	2:K:1012:LEU:HA	1.96	0.48
2:K:688:SER:HB3	2:K:708:ASN:ND2	2.29	0.48
2:M:133:ALA:HA	2:M:136:LEU:HB3	1.95	0.48
2:M:1102:VAL:HG21	2:M:1366:MET:SD	2.54	0.48
2:M:1129:ARG:HG2	2:M:1139:ARG:NH2	2.29	0.48
2:N:77:ALA:HA	2:N:1057:VAL:HG23	1.96	0.48
2:N:502:ARG:HD2	2:N:962:GLU:HG3	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:50:PHE:HA	2:P:319:HIS:HB3	1.94	0.48
4:g:187:LEU:HB3	4:g:249:GLN:NE2	2.29	0.48
5:i:30:ALA:O	5:i:72:LEU:HA	2.14	0.48
5:k:210:LEU:HD13	5:k:271:LEU:HA	1.94	0.48
5:r:249:GLU:H	5:r:249:GLU:CD	2.20	0.48
5:t:126:THR:HG22	5:t:131:GLU:HG2	1.96	0.48
1:1:55:GLU:HB3	1:1:59:TRP:CD1	2.49	0.47
2:B:229:LEU:HD21	2:B:242:PHE:CE2	2.49	0.47
2:B:733:VAL:HG13	2:B:894:GLU:HB3	1.95	0.47
2:C:606:TYR:CD1	2:C:607:PRO:HD2	2.49	0.47
2:D:1037:VAL:HG21	2:D:1262:CYS:HB2	1.95	0.47
2:E:58:CYS:HA	2:F:94:HIS:HB3	1.96	0.47
2:E:672:PHE:HD1	2:E:675:ARG:HD3	1.79	0.47
2:E:1349:THR:HA	2:E:1354:TYR:HA	1.96	0.47
2:F:1102:VAL:HG11	2:F:1106:MET:HE3	1.96	0.47
2:H:936:PRO:HD3	2:H:952:LEU:HD23	1.96	0.47
2:I:562:PRO:O	2:I:566:ALA:N	2.45	0.47
2:J:447:LYS:HD2	2:J:1112:ASP:HB3	1.95	0.47
2:J:1255:ASN:HD22	2:J:1258:PHE:HE2	1.62	0.47
2:M:822:ALA:HA	3:c:72:ARG:CZ	2.44	0.47
2:O:698:LEU:HD11	2:O:1130:TRP:CD1	2.48	0.47
2:P:1247:ARG:HE	2:P:1269:GLU:HG3	1.79	0.47
5:q:302:CYS:O	5:q:305:LYS:NZ	2.46	0.47
4:s:152:GLY:H	4:s:281:VAL:HB	1.78	0.47
1:0:49:ARG:HG2	1:0:238:GLU:HB3	1.95	0.47
1:6:121:ASP:HB2	1:6:214:ARG:HH12	1.79	0.47
1:7:64:ARG:HH21	1:7:268:LEU:HD23	1.79	0.47
2:A:220:LYS:O	2:A:224:LEU:HG	2.13	0.47
2:B:718:PRO:HD3	2:B:786:LEU:HD12	1.97	0.47
2:B:1212:LYS:HE3	2:B:1219:GLU:HG3	1.96	0.47
2:D:582:MET:HE1	2:D:691:PRO:HD2	1.96	0.47
2:D:598:LYS:HA	2:D:601:VAL:HG12	1.95	0.47
2:D:1155:SER:HB2	2:D:1257:LYS:HD2	1.96	0.47
2:E:73:ALA:HA	2:E:261:TYR:CZ	2.49	0.47
2:F:419:THR:HG22	2:F:421:ARG:H	1.78	0.47
2:F:562:PRO:HG2	2:F:565:LEU:HD12	1.96	0.47
2:F:769:ASP:OD1	2:F:770:ASP:N	2.47	0.47
2:F:973:PHE:CD1	2:F:974:PRO:HD2	2.49	0.47
2:H:77:ALA:HA	2:H:1057:VAL:HG23	1.96	0.47
2:H:1033:ALA:HB2	2:H:1178:PRO:HA	1.95	0.47
2:J:419:THR:HG22	2:J:421:ARG:H	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:797:ALA:O	2:J:943:TYR:HA	2.14	0.47
2:N:131:LEU:O	2:N:1072:SER:HA	2.13	0.47
2:P:229:LEU:HD21	2:P:242:PHE:CE2	2.49	0.47
3:Q:22:VAL:HG13	3:Q:28:LEU:HB2	1.96	0.47
4:g:84:LEU:HD12	4:g:87:LEU:HD12	1.95	0.47
5:i:149:ARG:NH1	5:i:172:LEU:O	2.46	0.47
5:l:175:ILE:HB	5:l:177:PHE:CE2	2.49	0.47
5:q:36:GLN:HG3	5:q:38:LEU:HG	1.95	0.47
1:2:203:LEU:O	1:2:206:THR:OG1	2.30	0.47
1:7:120:HIS:HB3	1:7:124:ILE:HG12	1.95	0.47
2:A:630:PHE:HA	2:A:633:ARG:HE	1.79	0.47
2:B:515:ASP:HA	2:B:993:ARG:NH2	2.30	0.47
2:C:1160:ASN:HB3	2:D:209:ARG:HH12	1.78	0.47
2:D:11:PRO:HB3	2:N:337:PRO:HA	1.95	0.47
2:E:424:LEU:HD11	2:E:573:LEU:HB3	1.97	0.47
2:E:513:LYS:HB2	2:E:528:THR:HG21	1.96	0.47
2:E:1106:MET:HE1	2:E:1363:GLN:HE22	1.78	0.47
2:F:450:CYS:SG	2:F:1131:ILE:HD12	2.54	0.47
2:G:514:GLN:HE22	2:G:990:PRO:HA	1.80	0.47
2:G:624:PHE:CZ	2:G:631:VAL:HG11	2.49	0.47
2:G:708:ASN:OD1	2:G:709:ALA:N	2.48	0.47
2:H:342:ASP:HB3	2:M:55:GLY:HA3	1.97	0.47
2:H:359:VAL:HG12	2:H:368:ILE:HD13	1.95	0.47
2:H:573:LEU:HA	2:H:576:TRP:HD1	1.80	0.47
2:H:642:ARG:HB3	2:H:644:LEU:HG	1.96	0.47
2:I:558:ILE:HA	2:I:1015:ILE:HD11	1.97	0.47
2:I:716:TRP:CE2	2:I:895:VAL:HG11	2.49	0.47
2:I:946:PRO:HG3	2:I:973:PHE:CD1	2.48	0.47
2:I:1060:ASN:O	2:I:1079:GLN:NE2	2.26	0.47
2:I:1295:GLY:O	2:J:210:ILE:HD12	2.14	0.47
2:J:693:LEU:HB3	2:J:1022:LEU:HD11	1.96	0.47
2:J:747:ARG:HE	2:J:767:PHE:HB3	1.79	0.47
2:J:1041:THR:H	2:J:1104:THR:HG1	1.61	0.47
2:L:1109:ARG:NH2	2:L:1169:LYS:HB3	2.29	0.47
2:M:1182:ASP:HA	2:M:1186:PHE:HD2	1.79	0.47
2:N:627:ILE:HD11	2:N:882:ALA:HB2	1.96	0.47
2:O:1257:LYS:O	2:O:1302:VAL:N	2.39	0.47
4:g:236:THR:HA	1:w:99:ARG:HE	1.78	0.47
5:k:86:PRO:HB2	5:k:305:LYS:C	2.40	0.47
5:o:48:LEU:HD23	5:o:61:LEU:HD22	1.96	0.47
1:x:156:PHE:HB3	1:x:159:LEU:HD12	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:217:TRP:NE1	1:y:221:GLU:OE1	2.47	0.47
2:A:518:VAL:HB	2:A:564:GLY:HA2	1.95	0.47
2:A:560:ASN:CG	2:A:988:ARG:HG3	2.39	0.47
2:B:502:ARG:NH1	2:B:958:ARG:HB3	2.27	0.47
2:C:48:ILE:HD13	2:L:152:LEU:HD11	1.95	0.47
2:C:389:VAL:HG23	2:C:1044:VAL:HG21	1.97	0.47
2:D:387:ARG:HD3	2:D:1046:MET:SD	2.54	0.47
2:D:638:MET:HE1	2:D:642:ARG:NH1	2.28	0.47
2:D:947:THR:HG22	2:D:967:HIS:CE1	2.48	0.47
2:E:128:PRO:HB3	2:E:1076:HIS:ND1	2.30	0.47
2:E:268:LYS:O	2:E:366:THR:OG1	2.32	0.47
2:E:573:LEU:HA	2:E:576:TRP:HD1	1.79	0.47
2:F:899:LEU:O	2:F:904:ARG:NE	2.45	0.47
2:I:1244:TYR:HB2	2:I:1266:PHE:HD2	1.79	0.47
2:I:1268:THR:HA	2:I:1271:ILE:HG22	1.97	0.47
2:J:862:GLU:HG3	2:J:863:ASP:H	1.80	0.47
2:K:881:LEU:HA	3:a:69:ALA:HB1	1.96	0.47
2:L:451:HIS:CE1	2:L:1117:PHE:HB2	2.50	0.47
2:M:1265:TYR:OH	2:M:1320:GLU:O	2.28	0.47
2:N:443:VAL:HA	2:N:446:LEU:HD13	1.95	0.47
5:i:75:ARG:HB2	5:i:82:LEU:HD12	1.96	0.47
5:i:107:ALA:O	5:i:139:PRO:HA	2.14	0.47
4:m:90:ARG:HG3	4:m:200:PRO:HG3	1.95	0.47
5:n:58:TYR:CE1	5:n:112:PRO:HB2	2.50	0.47
1:z:6:ILE:HB	1:z:50:THR:HG23	1.96	0.47
2:A:67:LEU:HD11	2:A:299:PRO:HG2	1.96	0.47
2:A:255:LEU:O	2:A:1053:SER:OG	2.31	0.47
2:A:259:THR:HG22	2:A:352:LEU:HD11	1.96	0.47
2:A:618:HIS:ND1	2:A:618:HIS:O	2.48	0.47
2:A:1191:ASN:OD1	2:A:1192:PRO:HD2	2.14	0.47
2:B:884:GLN:HA	3:R:66:ARG:HB2	1.97	0.47
2:C:216:LEU:HD21	2:C:1198:CYS:HB3	1.96	0.47
2:C:396:PRO:HB3	2:C:1186:PHE:CE1	2.49	0.47
2:D:703:LEU:HA	2:D:706:TYR:HD2	1.80	0.47
2:D:1164:THR:OG1	2:E:209:ARG:HG2	2.14	0.47
2:D:1244:TYR:HA	2:D:1249:ARG:NH2	2.30	0.47
2:F:62:GLU:OE2	2:F:173:ARG:NH1	2.48	0.47
2:J:259:THR:HG22	2:J:352:LEU:HD11	1.96	0.47
2:J:732:VAL:HG22	2:J:895:VAL:HG22	1.94	0.47
2:K:1230:ASN:HB3	2:K:1233:ALA:HB3	1.95	0.47
2:K:1359:ILE:HG23	2:K:1360:ILE:HG13	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1228:THR:HG23	2:L:1234:SER:HB3	1.97	0.47
2:M:300:ALA:HB2	2:M:353:THR:HB	1.96	0.47
2:N:294:GLU:N	2:N:357:MET:O	2.44	0.47
2:O:211:GLN:O	2:O:215:ILE:HG12	2.14	0.47
2:O:1176:LEU:HD22	2:O:1230:ASN:HB3	1.96	0.47
2:P:455:HIS:CD2	2:P:1017:PRO:HD3	2.50	0.47
2:P:653:LEU:O	2:P:657:ILE:HG12	2.13	0.47
3:U:63:ASP:HA	3:U:66:ARG:HG2	1.96	0.47
5:i:58:TYR:OH	5:i:147:ASN:OD1	2.31	0.47
4:j:40:HIS:HA	4:j:43:HIS:NE2	2.29	0.47
4:j:64:GLY:H	4:j:135:VAL:HB	1.79	0.47
5:l:248:GLY:C	5:l:250:PRO:HD3	2.40	0.47
5:n:265:ILE:HD11	5:o:148:GLN:HB3	1.96	0.47
5:o:93:THR:HA	5:o:301:THR:HA	1.96	0.47
5:q:156:PHE:HE2	5:q:165:VAL:HA	1.79	0.47
1:5:66:LEU:HB3	1:5:217:TRP:CH2	2.50	0.47
2:A:481:CYS:O	2:A:543:GLN:HB2	2.15	0.47
2:A:567:PRO:HD2	2:A:1179:VAL:HG21	1.96	0.47
2:A:1182:ASP:HB3	2:A:1186:PHE:HE2	1.78	0.47
2:B:22:HIS:CG	2:B:23:VAL:H	2.32	0.47
2:B:663:ASP:HA	2:C:642:ARG:HH22	1.79	0.47
2:B:757:LEU:HA	2:B:760:MET:HE3	1.96	0.47
2:B:936:PRO:HD3	2:B:952:LEU:HD23	1.97	0.47
2:F:556:ILE:HG21	2:F:986:TRP:CH2	2.50	0.47
2:H:947:THR:HG23	2:H:969:HIS:HE1	1.79	0.47
2:I:188:PRO:HD2	2:I:1092:SER:O	2.15	0.47
2:L:57:PHE:HD2	2:M:93:PHE:CE1	2.32	0.47
2:M:452:PRO:HG3	2:M:1122:TYR:CE2	2.49	0.47
2:M:461:LEU:HD13	2:M:552:CYS:HB2	1.97	0.47
2:M:1196:ALA:HB3	2:M:1222:ALA:HB3	1.97	0.47
2:N:299:PRO:HA	2:N:352:LEU:HA	1.96	0.47
2:N:747:ARG:HG2	2:N:767:PHE:HB3	1.95	0.47
2:P:258:PRO:O	2:P:262:THR:OG1	2.32	0.47
4:g:46:LEU:HD22	5:i:91:LEU:HD23	1.97	0.47
4:j:288:GLU:HB2	5:k:276:ARG:HH21	1.79	0.47
1:w:90:ARG:HB3	1:w:196:LEU:HD23	1.96	0.47
1:w:125:VAL:HG21	1:w:210:ILE:HG21	1.97	0.47
1:2:103:ARG:HH12	1:2:107:ALA:HB2	1.78	0.47
1:6:99:ARG:O	1:6:103:ARG:N	2.45	0.47
2:A:534:HIS:HB3	2:A:537:PHE:HB2	1.97	0.47
2:A:716:TRP:CD1	2:A:778:TRP:HZ2	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:739:LEU:HD11	2:A:745:GLU:HB3	1.96	0.47
2:B:642:ARG:HH11	2:G:663:ASP:HA	1.79	0.47
2:C:1100:ASN:OD1	2:C:1101:ARG:N	2.47	0.47
2:D:600:THR:OG1	2:D:645:LEU:O	2.32	0.47
2:D:668:PRO:HB3	2:E:642:ARG:HA	1.97	0.47
2:E:401:LEU:HD11	2:E:1354:TYR:HB3	1.97	0.47
2:F:1165:VAL:HG23	2:G:216:LEU:HD23	1.96	0.47
2:G:1276:LYS:HB3	2:G:1280:LYS:HB2	1.96	0.47
2:H:212:ARG:NH2	2:H:1202:VAL:O	2.47	0.47
2:H:1193:ARG:HG3	2:H:1233:ALA:O	2.15	0.47
2:I:698:LEU:HD23	2:I:1127:VAL:HG22	1.97	0.47
2:J:662:ALA:HA	2:J:671:LEU:HD11	1.95	0.47
2:J:747:ARG:NH2	2:J:918:TYR:OH	2.47	0.47
2:J:782:LYS:O	2:J:786:LEU:HB3	2.15	0.47
2:K:518:VAL:HG11	2:K:567:PRO:HG3	1.96	0.47
2:L:556:ILE:O	2:L:1015:ILE:HG13	2.15	0.47
2:L:941:ARG:HG3	2:L:992:SER:HB3	1.97	0.47
2:M:446:LEU:HD21	2:M:1021:VAL:HG13	1.97	0.47
2:M:936:PRO:HB3	2:M:952:LEU:HD22	1.97	0.47
2:N:188:PRO:HG3	2:N:1090:TYR:CD2	2.50	0.47
2:O:337:PRO:HG2	2:O:338:HIS:HD2	1.79	0.47
2:O:1101:ARG:HH21	2:P:202:LEU:HD22	1.80	0.47
2:O:1185:TYR:HD1	2:O:1190:ASN:HD22	1.59	0.47
2:P:207:LEU:HD13	2:P:212:ARG:HB3	1.97	0.47
2:P:259:THR:HG22	2:P:352:LEU:HD11	1.95	0.47
2:P:554:PRO:HD3	2:P:907:LEU:HD12	1.96	0.47
3:Q:29:PRO:HG2	3:Q:32:ILE:HG12	1.97	0.47
3:T:29:PRO:HG2	3:T:32:ILE:HG12	1.96	0.47
3:b:29:PRO:HG2	3:b:32:ILE:HG12	1.96	0.47
5:i:101:THR:HA	5:i:297:ASN:HD22	1.79	0.47
4:j:216:VAL:HG12	4:j:248:ILE:HD12	1.97	0.47
5:l:110:VAL:HG13	5:l:135:PRO:HB2	1.97	0.47
5:n:263:ASP:O	5:n:267:ARG:HG2	2.14	0.47
5:t:193:LEU:O	5:t:197:MET:N	2.40	0.47
1:v:3:LEU:HD21	1:v:64:ARG:HH11	1.80	0.47
1:v:137:LYS:O	1:v:141:ARG:N	2.47	0.47
1:8:116:THR:HA	1:9:90:ARG:HD2	1.96	0.47
2:A:716:TRP:HE3	2:A:916:VAL:HG21	1.80	0.47
2:C:657:ILE:HG23	2:C:661:LEU:HD22	1.97	0.47
2:C:698:LEU:HD21	2:C:1130:TRP:CD1	2.50	0.47
2:C:800:LEU:HG	2:C:923:VAL:HG21	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:361:ARG:NH2	2:D:364:GLU:OE1	2.48	0.47
2:D:537:PHE:HD1	2:D:554:PRO:HA	1.79	0.47
2:E:793:THR:O	2:E:796:ARG:HG2	2.14	0.47
2:E:886:VAL:HG22	3:U:66:ARG:HH12	1.79	0.47
2:E:1132:ARG:HD2	2:E:1137:VAL:HB	1.96	0.47
2:G:445:ALA:HA	2:G:1110:VAL:HG21	1.97	0.47
2:G:624:PHE:HZ	2:G:631:VAL:HG11	1.79	0.47
2:G:680:VAL:O	2:G:684:VAL:HG23	2.15	0.47
2:H:202:LEU:HD22	2:M:1101:ARG:CZ	2.44	0.47
2:H:212:ARG:HH12	2:H:1204:PRO:HD3	1.80	0.47
2:H:518:VAL:HG11	2:H:567:PRO:HG3	1.97	0.47
2:H:931:ILE:HD11	2:H:952:LEU:HA	1.97	0.47
2:K:1268:THR:HA	2:K:1271:ILE:HG22	1.96	0.47
2:L:1066:LYS:HG3	2:L:1075:TYR:HE1	1.79	0.47
2:M:892:VAL:HG11	2:M:979:PHE:CE1	2.49	0.47
2:N:1172:CYS:SG	2:N:1173:GLU:N	2.85	0.47
2:O:791:ALA:O	2:O:1000:ASN:ND2	2.48	0.47
2:O:1041:THR:N	2:O:1104:THR:OG1	2.35	0.47
2:P:212:ARG:NH2	2:P:1204:PRO:HD3	2.27	0.47
2:P:710:LEU:HB2	2:P:1012:LEU:HD23	1.95	0.47
5:u:24:LEU:HB3	5:u:76:VAL:HG21	1.97	0.47
1:v:249:TYR:O	1:v:253:ILE:HG12	2.15	0.47
1:z:190:ARG:N	1:z:198:ASN:OD1	2.48	0.47
1:8:71:PRO:HG3	1:8:217:TRP:CD2	2.50	0.47
1:9:60:LEU:HD23	1:9:228:ILE:HD13	1.96	0.47
2:A:623:ALA:O	2:A:627:ILE:HG12	2.15	0.47
2:A:934:SER:HB2	2:A:952:LEU:HD21	1.97	0.47
2:A:1304:VAL:HG21	5:i:44:TYR:HE2	1.79	0.47
2:C:122:LYS:HA	2:C:1082:ASN:HB3	1.97	0.47
2:D:846:ILE:O	2:D:849:GLN:HG2	2.15	0.47
2:E:698:LEU:O	2:E:700:GLU:N	2.48	0.47
2:F:417:ASN:ND2	2:G:403:GLU:O	2.48	0.47
2:F:457:PRO:HG3	2:F:907:LEU:HG	1.96	0.47
2:F:677:LEU:O	2:F:681:LEU:HG	2.15	0.47
2:F:1133:HIS:NE2	2:G:477:ARG:HD3	2.30	0.47
2:G:451:HIS:HE2	2:G:1117:PHE:HB2	1.80	0.47
2:H:727:MET:HB2	2:H:730:VAL:HB	1.96	0.47
2:I:79:LYS:O	2:I:304:ASN:HA	2.15	0.47
2:I:1285:TYR:CG	2:I:1317:LEU:HD12	2.50	0.47
2:J:77:ALA:HB2	2:J:1057:VAL:HG23	1.97	0.47
2:J:1162:ALA:HB3	2:K:1213:ALA:HB2	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1173:GLU:O	2:J:1244:TYR:OH	2.32	0.47
2:K:1139:ARG:HD2	2:K:1140:PRO:HD2	1.96	0.47
2:L:1065:THR:HG22	2:L:1076:HIS:O	2.14	0.47
2:M:651:TYR:HA	2:M:654:VAL:HG12	1.97	0.47
2:M:931:ILE:HD11	2:M:952:LEU:HA	1.97	0.47
2:N:756:ARG:HG3	2:N:767:PHE:CZ	2.50	0.47
2:O:534:HIS:HD2	2:O:537:PHE:HD1	1.62	0.47
2:P:236:ARG:NH1	2:P:286:LEU:O	2.47	0.47
2:P:451:HIS:ND1	2:P:453:VAL:HG12	2.30	0.47
2:P:693:LEU:HB3	2:P:1022:LEU:HD11	1.97	0.47
4:g:123:HIS:HE1	4:g:243:LEU:HD13	1.79	0.47
4:j:117:TRP:O	4:j:128:ARG:NH1	2.47	0.47
4:j:191:TYR:CD1	4:j:200:PRO:HB3	2.50	0.47
5:n:123:ASN:C	5:n:125:LEU:H	2.21	0.47
5:o:60:ARG:N	5:o:196:ASP:OD2	2.48	0.47
5:t:138:VAL:HB	5:t:142:LEU:HD23	1.97	0.47
5:t:304:PHE:C	5:t:305:LYS:HD2	2.39	0.47
1:x:167:ILE:HD12	1:x:188:LEU:HD21	1.96	0.47
1:0:105:HIS:O	1:0:131:SER:OG	2.32	0.47
2:A:534:HIS:ND1	2:A:535:PRO:HD2	2.30	0.47
2:A:1337:LEU:HD12	2:A:1338:LYS:HG3	1.96	0.47
2:B:396:PRO:HB3	2:B:1186:PHE:CE1	2.50	0.47
2:B:748:HIS:C	2:B:756:ARG:HH12	2.23	0.47
2:B:1105:ASP:CG	2:B:1166:HIS:HB3	2.40	0.47
2:D:1033:ALA:HB3	2:D:1176:LEU:HB2	1.97	0.47
2:E:9:LEU:HD23	2:F:316:ILE:HD12	1.97	0.47
2:E:568:GLY:HA2	2:E:571:HIS:HD2	1.80	0.47
2:G:1109:ARG:NH2	2:G:1169:LYS:HB3	2.30	0.47
2:H:86:LEU:HB3	2:M:50:PHE:CE2	2.50	0.47
2:H:216:LEU:HD23	2:M:1165:VAL:HG23	1.96	0.47
2:H:514:GLN:HE22	2:H:562:PRO:HA	1.79	0.47
2:H:1247:ARG:HG3	2:H:1269:GLU:HG3	1.96	0.47
2:I:455:HIS:NE2	2:I:1017:PRO:HB3	2.29	0.47
2:I:732:VAL:O	2:I:739:LEU:HB3	2.14	0.47
2:J:963:PHE:HB3	2:J:966:TYR:CD2	2.48	0.47
2:K:124:PRO:HD2	2:L:104:ALA:HB2	1.96	0.47
2:K:556:ILE:HG21	2:K:986:TRP:CE3	2.50	0.47
2:K:1247:ARG:HD2	2:K:1269:GLU:HG2	1.97	0.47
2:M:63:TRP:CH2	2:M:165:LYS:HB3	2.45	0.47
2:M:963:PHE:HB3	2:M:966:TYR:CD2	2.48	0.47
2:N:693:LEU:HB3	2:N:1022:LEU:HD11	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1035:THR:OG1	2:O:1174:LEU:O	2.31	0.47
2:P:311:ASN:HB3	2:P:321:ILE:HD12	1.97	0.47
5:i:278:LEU:HG	5:i:281:LEU:HD12	1.97	0.47
4:j:213:GLN:NE2	5:k:280:ASP:O	2.47	0.47
5:r:59:VAL:HB	5:r:196:ASP:HB3	1.97	0.47
4:s:193:TYR:HB3	4:s:233:ARG:HD2	1.97	0.47
1:1:49:ARG:HE	1:1:238:GLU:HB3	1.80	0.46
1:2:83:ARG:HD2	1:2:206:THR:HG21	1.97	0.46
1:8:9:GLN:OE1	1:8:11:ARG:NH2	2.48	0.46
1:8:178:MET:HB2	1:8:213:VAL:HG13	1.97	0.46
2:A:638:MET:HE1	2:A:642:ARG:HH11	1.79	0.46
2:A:989:SER:OG	2:A:990:PRO:HD3	2.14	0.46
2:C:451:HIS:ND1	2:C:453:VAL:HG12	2.30	0.46
2:C:628:ARG:HH22	2:C:663:ASP:HB3	1.80	0.46
2:C:973:PHE:CD1	2:C:974:PRO:HD2	2.50	0.46
2:E:211:GLN:O	2:E:215:ILE:HG12	2.15	0.46
2:E:884:GLN:O	3:U:66:ARG:NH2	2.47	0.46
2:E:1347:SER:HB3	2:E:1357:GLY:H	1.79	0.46
2:F:94:HIS:HA	2:F:115:MET:HG2	1.97	0.46
2:F:300:ALA:HB3	2:F:351:SER:HB2	1.96	0.46
2:G:284:MET:HE1	2:G:291:ILE:HG21	1.96	0.46
2:H:341:ASN:HD21	2:H:346:GLN:HA	1.80	0.46
2:I:359:VAL:HG12	2:I:368:ILE:HD13	1.97	0.46
2:J:520:ASP:HA	2:J:523:LYS:HZ2	1.78	0.46
2:J:559:GLY:HA3	2:J:1011:MET:HB3	1.97	0.46
2:J:1124:HIS:HE1	2:J:1126:GLU:HB3	1.80	0.46
2:K:1196:ALA:HB3	2:K:1222:ALA:HB3	1.96	0.46
2:L:227:LEU:HD21	2:L:391:LEU:HD21	1.96	0.46
2:M:211:GLN:O	2:M:215:ILE:HG12	2.14	0.46
2:M:475:MET:SD	2:M:1218:ARG:NH2	2.87	0.46
2:M:630:PHE:HE1	2:M:875:ALA:HB1	1.79	0.46
2:M:653:LEU:O	2:M:657:ILE:HG12	2.14	0.46
2:N:1101:ARG:HH21	2:O:202:LEU:HD12	1.80	0.46
2:O:451:HIS:ND1	2:O:453:VAL:HG12	2.30	0.46
2:O:747:ARG:NH2	2:O:918:TYR:OH	2.48	0.46
2:P:73:ALA:HA	2:P:261:TYR:CZ	2.50	0.46
2:P:537:PHE:CE1	2:P:554:PRO:HB3	2.49	0.46
4:g:185:VAL:HG13	4:g:251:LEU:HB2	1.96	0.46
5:i:58:TYR:O	5:i:59:VAL:HB	2.15	0.46
4:j:82:ILE:HG23	4:j:86:LEU:HD22	1.95	0.46
5:k:58:TYR:HE1	5:k:112:PRO:HB2	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n:190:ASP:OD1	5:n:191:GLN:N	2.48	0.46
5:n:260:SER:HB2	5:n:263:ASP:HB3	1.96	0.46
5:u:214:LEU:HD23	5:u:268:LEU:HD23	1.97	0.46
1:w:43:GLU:C	1:w:45:ARG:H	2.24	0.46
1:5:88:ALA:HB2	1:5:109:LEU:HD22	1.97	0.46
2:A:1306:GLY:O	2:A:1309:GLN:HG2	2.15	0.46
2:B:555:ARG:HH11	2:B:560:ASN:HB3	1.78	0.46
2:C:651:TYR:O	2:C:655:THR:OG1	2.27	0.46
2:C:918:TYR:C	2:C:920:GLY:H	2.22	0.46
2:D:19:PHE:HZ	2:D:23:VAL:HG23	1.80	0.46
2:E:767:PHE:O	2:E:918:TYR:OH	2.22	0.46
2:F:189:PRO:HD3	2:F:1286:LEU:HD21	1.97	0.46
2:F:801:GLY:HA3	2:F:890:VAL:HB	1.96	0.46
2:H:322:LEU:HD11	2:H:325:PHE:HD1	1.80	0.46
2:H:807:LEU:HD13	2:H:933:TYR:HD2	1.80	0.46
2:H:1255:ASN:HD22	2:H:1258:PHE:HE2	1.64	0.46
2:J:43:PRO:HA	2:J:46:TYR:HD2	1.80	0.46
2:J:451:HIS:ND1	2:J:453:VAL:HG12	2.30	0.46
2:J:724:PRO:HG2	2:J:727:MET:HE2	1.97	0.46
2:K:419:THR:HG21	2:L:404:ASP:HA	1.97	0.46
2:K:718:PRO:HD2	2:K:785:TYR:HB2	1.97	0.46
2:L:208:ASN:HB2	2:L:211:GLN:HG2	1.96	0.46
2:M:234:ARG:HH22	2:M:282:ILE:HD13	1.80	0.46
2:M:1245:ASN:O	2:M:1249:ARG:N	2.38	0.46
4:g:180:GLY:HA3	4:g:208:SER:OG	2.14	0.46
4:g:188:ILE:HD13	4:g:205:LEU:HD21	1.98	0.46
4:j:216:VAL:O	4:j:220:ARG:HG3	2.15	0.46
4:m:220:ARG:HG2	4:m:227:ARG:NH2	2.31	0.46
4:p:213:GLN:HE22	5:q:281:LEU:HA	1.80	0.46
4:s:248:ILE:HG13	4:s:289:PHE:HE1	1.80	0.46
5:u:216:MET:SD	5:u:238:LEU:HD13	2.56	0.46
1:4:94:TYR:CD1	1:4:95:PRO:HD2	2.49	0.46
1:8:188:LEU:HD11	1:8:205:TYR:HB2	1.97	0.46
2:A:257:ASN:HB2	2:A:260:THR:HG22	1.98	0.46
2:A:861:VAL:HG11	2:A:876:CYS:HB3	1.97	0.46
2:A:1359:ILE:HG13	2:A:1360:ILE:N	2.30	0.46
2:B:900:ASP:O	2:B:904:ARG:N	2.48	0.46
2:C:1244:TYR:HB2	2:C:1266:PHE:CD2	2.47	0.46
2:E:446:LEU:HD11	2:E:1021:VAL:HG22	1.97	0.46
2:E:786:LEU:HG	2:E:987:LEU:HD11	1.97	0.46
2:E:846:ILE:HA	2:E:849:GLN:HG2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:312:ALA:O	2:F:316:ILE:HG12	2.15	0.46
2:F:849:GLN:HG3	2:F:872:LEU:HD12	1.97	0.46
2:F:1342:GLY:H	2:F:1364:GLN:HG2	1.80	0.46
2:H:397:VAL:HG13	2:H:1034:LEU:HB2	1.96	0.46
2:H:418:ASP:O	2:H:419:THR:OG1	2.30	0.46
2:H:1145:THR:HG22	4:p:120:LEU:HD13	1.98	0.46
2:I:130:GLU:HB3	2:I:1074:THR:HG22	1.97	0.46
2:I:1172:CYS:SG	2:I:1173:GLU:N	2.86	0.46
2:J:651:TYR:CD2	2:J:781:GLN:HG2	2.50	0.46
2:K:450:CYS:O	2:K:1122:TYR:OH	2.29	0.46
2:K:627:ILE:HD11	2:K:882:ALA:HB2	1.97	0.46
2:K:1165:VAL:HG11	2:L:1223:GLN:H	1.79	0.46
2:L:1174:LEU:HD11	2:L:1262:CYS:SG	2.56	0.46
2:N:1250:GLU:HA	2:N:1254:TYR:HE1	1.80	0.46
2:O:64:VAL:HG21	2:O:173:ARG:HE	1.81	0.46
2:O:1060:ASN:ND2	2:O:1080:ASN:OD1	2.45	0.46
2:P:1286:LEU:O	2:P:1290:LYS:NZ	2.48	0.46
4:g:228:CYS:SG	5:i:233:LYS:NZ	2.73	0.46
5:i:33:PRO:HG3	5:i:48:LEU:HD12	1.98	0.46
5:n:288:PHE:CE1	5:n:305:LYS:HG2	2.50	0.46
1:1:105:HIS:O	1:1:131:SER:OG	2.29	0.46
2:A:523:LYS:HG3	2:A:525:GLY:H	1.80	0.46
2:A:638:MET:SD	2:A:864:VAL:HG13	2.55	0.46
2:A:1041:THR:HG21	2:A:1103:ARG:NH2	2.30	0.46
2:A:1194:GLY:HA3	2:A:1229:HIS:HB2	1.97	0.46
2:B:429:TYR:CE2	2:B:1330:LEU:HG	2.50	0.46
2:B:1212:LYS:O	2:B:1216:ASP:HB3	2.16	0.46
2:B:1326:SER:O	2:B:1355:VAL:HA	2.15	0.46
2:E:229:LEU:O	2:E:231:ASN:N	2.43	0.46
2:E:232:ARG:HH21	2:E:1366:MET:CE	2.29	0.46
2:E:635:ILE:HG22	2:E:670:LEU:HD13	1.97	0.46
2:E:1111:GLN:NE2	2:E:1112:ASP:OD1	2.48	0.46
2:E:1112:ASP:OD1	2:E:1112:ASP:N	2.47	0.46
2:F:87:THR:HG22	2:F:88:THR:HG23	1.97	0.46
2:F:212:ARG:NH2	2:F:1204:PRO:HD3	2.22	0.46
2:F:802:LEU:HD23	2:F:934:SER:HA	1.98	0.46
2:G:212:ARG:HD3	2:G:1200:LEU:O	2.16	0.46
2:H:127:ILE:HD11	2:I:101:ALA:HA	1.97	0.46
2:H:651:TYR:HB2	2:H:784:PHE:CD2	2.50	0.46
2:H:1065:THR:CG2	2:H:1076:HIS:HB2	2.45	0.46
2:I:272:VAL:HG23	2:I:368:ILE:HB	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:820:MET:HG3	2:K:877:ARG:HE	1.79	0.46
2:L:927:PRO:HD2	2:L:952:LEU:HD11	1.96	0.46
2:M:638:MET:HE1	2:M:642:ARG:HH21	1.81	0.46
2:N:626:LEU:HD22	2:N:881:LEU:HD13	1.97	0.46
2:O:299:PRO:HA	2:O:352:LEU:HD23	1.97	0.46
2:P:633:ARG:O	2:P:637:ASN:ND2	2.45	0.46
4:g:211:HIS:NE2	4:g:213:GLN:HB2	2.30	0.46
5:q:145:GLU:HA	5:q:148:GLN:HB3	1.97	0.46
4:s:121:GLY:HA3	4:s:128:ARG:NH2	2.23	0.46
5:u:33:PRO:HB3	5:u:70:LEU:HD23	1.98	0.46
1:w:140:VAL:HG21	1:w:158:HIS:NE2	2.30	0.46
1:w:178:MET:HB2	1:w:213:VAL:HG22	1.98	0.46
1:z:134:ILE:HG23	1:z:144:LEU:HD22	1.97	0.46
1:3:235:LEU:HD23	1:3:254:LEU:HD21	1.98	0.46
1:7:23:LEU:HD22	1:7:65:GLU:HB3	1.97	0.46
2:A:1240:SER:HB2	2:A:1266:PHE:CE2	2.51	0.46
2:E:359:VAL:HG12	2:E:368:ILE:HD13	1.96	0.46
2:E:684:VAL:O	2:E:687:ILE:HG22	2.15	0.46
2:E:940:HIS:HD2	2:E:942:PHE:HB2	1.80	0.46
2:F:497:HIS:HA	2:F:500:ARG:NH1	2.31	0.46
2:G:481:CYS:O	2:G:543:GLN:HB2	2.15	0.46
2:H:279:VAL:HG22	2:H:1098:TYR:HB3	1.97	0.46
2:H:451:HIS:ND1	2:H:453:VAL:HG12	2.31	0.46
2:H:713:HIS:HA	2:H:778:TRP:HE1	1.80	0.46
2:I:537:PHE:CE2	2:I:554:PRO:HB3	2.51	0.46
2:I:1297:THR:O	2:J:210:ILE:HD11	2.16	0.46
2:J:127:ILE:HD11	2:K:102:SER:H	1.81	0.46
2:J:188:PRO:HG3	2:J:1090:TYR:CD2	2.51	0.46
2:J:207:LEU:HD13	2:J:212:ARG:HD3	1.98	0.46
2:K:513:LYS:NZ	2:K:532:GLU:OE2	2.48	0.46
2:K:1164:THR:OG1	2:L:209:ARG:O	2.33	0.46
2:L:707:VAL:HG22	2:L:1022:LEU:HD23	1.97	0.46
2:L:710:LEU:HB2	2:L:1012:LEU:HD23	1.97	0.46
2:M:812:PHE:C	2:M:814:ARG:H	2.24	0.46
4:g:266:HIS:CE1	4:g:267:LYS:HG3	2.51	0.46
5:h:91:LEU:HB3	5:h:303:ILE:HA	1.96	0.46
5:h:93:THR:HA	5:h:301:THR:HA	1.98	0.46
5:k:280:ASP:HA	5:k:283:ARG:HB2	1.96	0.46
4:s:188:ILE:HG12	4:s:248:ILE:HG12	1.97	0.46
5:u:58:TYR:OH	5:u:112:PRO:HD2	2.16	0.46
1:v:129:LEU:HD13	1:v:154:ILE:HG21	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:235:LEU:HD23	1:w:254:LEU:HD21	1.97	0.46
1:4:227:ARG:O	1:4:231:ARG:HG2	2.16	0.46
1:8:160:LYS:HG3	1:8:163:GLU:H	1.81	0.46
1:9:20:LEU:HB3	1:9:65:GLU:HG3	1.97	0.46
2:A:451:HIS:HD2	2:A:453:VAL:HG12	1.79	0.46
2:A:1187:LYS:NZ	2:A:1347:SER:HB2	2.30	0.46
2:B:283:ILE:HG22	2:B:291:ILE:HD11	1.97	0.46
2:B:444:ASP:O	2:B:1110:VAL:HG21	2.16	0.46
2:C:199:ASN:O	2:C:202:LEU:HG	2.15	0.46
2:D:538:ASP:N	2:D:553:THR:O	2.47	0.46
2:D:552:CYS:SG	2:D:907:LEU:HD11	2.56	0.46
2:E:254:ILE:HG13	2:E:1087:GLY:HA2	1.98	0.46
2:E:432:ASN:OD1	2:E:438:GLN:NE2	2.46	0.46
2:E:1065:THR:HG22	2:E:1076:HIS:O	2.16	0.46
2:F:261:TYR:HB3	2:F:269:ILE:HD12	1.98	0.46
2:F:668:PRO:HB3	2:G:642:ARG:HA	1.97	0.46
2:G:575:THR:O	2:G:579:MET:HG2	2.15	0.46
2:I:1193:ARG:HG2	2:I:1234:SER:HA	1.98	0.46
2:J:173:ARG:NH2	2:K:98:PRO:HB2	2.30	0.46
2:J:1068:GLU:HG2	2:J:1070:ASP:H	1.80	0.46
2:K:738:PRO:HG3	2:K:896:ARG:HH22	1.81	0.46
2:L:512:MET:HE1	2:L:527:ILE:CD1	2.29	0.46
2:L:565:LEU:HD22	2:L:1177:THR:HG21	1.98	0.46
2:N:633:ARG:HH11	2:N:870:THR:HG21	1.80	0.46
2:N:657:ILE:HD12	2:N:661:LEU:HD22	1.96	0.46
2:P:209:ARG:HH22	2:P:1203:ASP:HB2	1.81	0.46
2:P:263:THR:HG23	2:P:294:GLU:HG2	1.97	0.46
2:P:507:ARG:HD3	2:P:512:MET:CE	2.46	0.46
2:P:867:ASP:OD1	2:P:868:ALA:N	2.48	0.46
2:P:1285:TYR:CG	2:P:1317:LEU:HD12	2.50	0.46
3:S:29:PRO:HG2	3:S:32:ILE:HG12	1.96	0.46
5:k:194:LEU:HD12	5:k:197:MET:HE3	1.98	0.46
5:o:14:HIS:HB3	5:o:127:LEU:HD22	1.98	0.46
5:o:75:ARG:HB3	5:o:82:LEU:HD12	1.98	0.46
4:p:211:HIS:CD2	4:p:213:GLN:HB2	2.50	0.46
4:s:60:GLU:OE2	4:s:83:SER:OG	2.28	0.46
1:5:92:TYR:O	4:p:237:ARG:NH2	2.44	0.46
1:5:178:MET:HB2	1:5:213:VAL:HG13	1.97	0.46
2:B:184:LEU:HD11	2:B:384:PRO:HB2	1.96	0.46
2:B:280:MET:HG3	2:B:284:MET:HE3	1.97	0.46
2:B:1244:TYR:HB2	2:B:1266:PHE:HD2	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:812:PHE:HB2	3:T:65:LEU:HD21	1.97	0.46
2:D:1164:THR:O	2:E:213:SER:HB3	2.16	0.46
2:D:1341:ALA:O	2:D:1364:GLN:HG2	2.15	0.46
2:I:1124:HIS:HE1	2:I:1126:GLU:HB3	1.80	0.46
2:I:1165:VAL:HG23	2:J:216:LEU:HD23	1.97	0.46
2:I:1250:GLU:HA	2:I:1254:TYR:HE1	1.80	0.46
2:J:391:LEU:HD23	2:J:1322:LEU:HD12	1.97	0.46
2:K:534:HIS:CD2	2:K:537:PHE:HD1	2.33	0.46
2:L:57:PHE:HD2	2:M:93:PHE:HE1	1.62	0.46
2:L:341:ASN:OD1	2:L:342:ASP:N	2.49	0.46
2:M:947:THR:HG22	2:M:967:HIS:NE2	2.31	0.46
2:N:174:GLY:HA3	2:O:101:ALA:HB3	1.98	0.46
2:O:1026:ALA:HB3	2:O:1028:ILE:HG12	1.96	0.46
2:P:311:ASN:O	2:P:314:THR:OG1	2.25	0.46
4:g:230:PHE:HE2	5:h:206:MET:HG3	1.80	0.46
5:k:156:PHE:CE1	5:k:160:ARG:HD2	2.50	0.46
5:l:31:VAL:HG21	5:l:137:ILE:HD11	1.96	0.46
5:t:58:TYR:CE1	5:t:112:PRO:HB2	2.51	0.46
5:u:30:ALA:HB2	5:u:95:LEU:HD23	1.98	0.46
2:A:1195:ARG:NH1	2:A:1227:ALA:O	2.49	0.46
2:B:600:THR:HB	2:B:644:LEU:HB2	1.98	0.46
2:B:664:GLY:O	2:B:666:LEU:N	2.47	0.46
2:C:31:MET:HB2	2:M:1279:PHE:CD2	2.50	0.46
2:D:140:ARG:HD3	4:j:9:ARG:HG2	1.97	0.46
2:E:485:GLN:OE1	2:E:913:ARG:NH1	2.42	0.46
2:E:552:CYS:SG	2:E:907:LEU:HD11	2.56	0.46
2:E:1132:ARG:O	2:E:1136:GLY:N	2.48	0.46
2:G:1150:MET:C	2:G:1152:THR:H	2.23	0.46
2:H:324:ASP:HB3	2:H:327:SER:HB3	1.98	0.46
2:H:391:LEU:HD23	2:H:1322:LEU:HD12	1.97	0.46
2:H:617:VAL:HG12	2:H:619:GLY:H	1.80	0.46
2:I:421:ARG:HD3	2:J:405:ARG:HH21	1.81	0.46
2:J:277:ALA:HB2	2:J:371:ASN:ND2	2.30	0.46
2:J:553:THR:HG22	2:J:988:ARG:HH21	1.81	0.46
2:K:76:HIS:HB3	2:K:1056:SER:OG	2.16	0.46
2:K:134:ALA:HB2	4:s:159:LYS:O	2.16	0.46
2:K:880:PHE:HZ	3:a:68:VAL:HB	1.80	0.46
2:K:1105:ASP:OD1	2:K:1166:HIS:HB2	2.15	0.46
2:K:1165:VAL:HB	2:L:1222:ALA:HB1	1.97	0.46
2:M:417:ASN:O	2:M:422:ASN:ND2	2.49	0.46
2:M:1235:GLN:HB2	2:M:1238:CYS:HB3	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1193:ARG:HG2	2:O:1234:SER:HA	1.98	0.46
5:h:59:VAL:HG22	5:h:150:LEU:HD13	1.98	0.46
5:l:214:LEU:HD23	5:l:268:LEU:HD23	1.98	0.46
5:q:227:SER:HA	5:q:231:LEU:HD23	1.98	0.46
5:r:76:VAL:HG12	5:r:78:GLY:H	1.81	0.46
4:s:175:TRP:CH2	4:s:222:LYS:HB2	2.51	0.46
5:u:173:GLN:HG3	5:u:184:ILE:O	2.16	0.46
1:0:243:LEU:HD12	3:T:74:ARG:HE	1.80	0.46
1:5:89:ARG:HH12	4:p:235:ILE:HD12	1.81	0.46
2:B:388:ASN:HB2	2:B:1311:ILE:HG12	1.97	0.46
2:B:536:PHE:HA	2:B:1015:ILE:HD12	1.98	0.46
2:B:770:ASP:HB3	2:B:772:ARG:HG2	1.97	0.46
2:B:817:PHE:HZ	2:B:857:LEU:HD21	1.81	0.46
2:B:1165:VAL:HG12	2:C:1222:ALA:HB1	1.98	0.46
2:B:1344:PHE:H	2:B:1364:GLN:NE2	2.13	0.46
2:C:433:ARG:HH22	2:C:1166:HIS:C	2.24	0.46
2:C:698:LEU:O	2:C:700:GLU:N	2.49	0.46
2:D:188:PRO:HB3	2:D:1282:ILE:HD11	1.98	0.46
2:D:1161:ALA:HB3	2:D:1164:THR:HG22	1.96	0.46
2:E:963:PHE:HB3	2:E:966:TYR:HD2	1.80	0.46
2:E:1132:ARG:NH2	2:E:1140:PRO:HD3	2.31	0.46
2:E:1365:SER:O	2:E:1369:ASN:N	2.48	0.46
2:F:275:SER:HB2	2:F:280:MET:HG2	1.96	0.46
2:F:707:VAL:HA	2:F:1019:SER:HB2	1.97	0.46
2:F:748:HIS:HB3	2:F:756:ARG:HD2	1.97	0.46
2:F:1176:LEU:HD22	2:F:1230:ASN:HB3	1.97	0.46
2:G:1204:PRO:C	2:G:1206:ASP:H	2.24	0.46
2:H:188:PRO:HA	2:H:1286:LEU:HD21	1.97	0.46
2:I:469:PRO:HB3	2:I:479:LEU:HD11	1.98	0.46
2:I:556:ILE:HG21	2:I:986:TRP:CZ3	2.49	0.46
2:J:698:LEU:HB2	2:J:706:TYR:HE2	1.80	0.46
2:L:207:LEU:HD13	2:L:212:ARG:HB3	1.97	0.46
2:L:653:LEU:O	2:L:657:ILE:HG12	2.16	0.46
2:O:534:HIS:CD2	2:O:537:PHE:HD1	2.33	0.46
2:P:1348:GLU:O	2:P:1355:VAL:N	2.44	0.46
5:h:231:LEU:HA	5:h:234:CYS:HB2	1.98	0.46
4:p:236:THR:HG22	4:p:237:ARG:HG3	1.98	0.46
5:q:214:LEU:HD11	5:q:256:PRO:HB3	1.97	0.46
1:0:140:VAL:HG21	1:0:158:HIS:NE2	2.30	0.46
1:9:92:TYR:OH	5:u:251:ARG:NH2	2.49	0.46
2:B:283:ILE:HG21	2:B:369:MET:HE1	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1184:ASN:OD1	2:G:437:VAL:HB	2.16	0.46
2:B:1206:ASP:OD2	2:B:1209:ALA:HB3	2.16	0.46
2:C:779:THR:HA	2:C:782:LYS:HE3	1.98	0.46
2:C:1069:ARG:HB2	2:C:1072:SER:O	2.15	0.46
2:D:624:PHE:HZ	2:D:657:ILE:HD13	1.81	0.46
2:G:83:LEU:O	2:G:86:LEU:HG	2.16	0.46
2:G:199:ASN:HD22	2:G:215:ILE:HD11	1.81	0.46
2:G:727:MET:HE1	2:G:740:ASN:HA	1.97	0.46
2:I:387:ARG:HG2	2:I:1309:GLN:HG2	1.98	0.46
2:I:1106:MET:SD	2:I:1363:GLN:NE2	2.79	0.46
2:K:127:ILE:HG21	2:K:167:THR:HG23	1.98	0.46
2:K:417:ASN:OD1	2:K:418:ASP:N	2.49	0.46
2:K:445:ALA:HA	2:K:1110:VAL:HG21	1.98	0.46
2:K:565:LEU:HD22	2:K:1177:THR:HG21	1.97	0.46
2:L:452:PRO:HG3	2:L:1122:TYR:CE2	2.51	0.46
2:M:120:SER:HB3	2:M:1084:VAL:HG12	1.97	0.46
2:P:900:ASP:O	2:P:904:ARG:N	2.48	0.46
2:P:1037:VAL:HG13	2:P:1174:LEU:HD13	1.98	0.46
3:W:25:VAL:HA	3:W:57:LYS:HD2	1.96	0.46
3:e:29:PRO:HG2	3:e:32:ILE:HG12	1.96	0.46
5:h:30:ALA:H	5:h:73:MET:HB3	1.80	0.46
5:l:145:GLU:HG2	5:l:177:PHE:CZ	2.49	0.46
4:p:151:ARG:HH21	5:r:305:LYS:HE2	1.80	0.46
1:7:36:LYS:O	1:7:40:LYS:HG2	2.16	0.45
1:9:64:ARG:HD2	1:9:268:LEU:HD21	1.97	0.45
2:B:617:VAL:HG12	2:B:619:GLY:H	1.81	0.45
2:B:710:LEU:HD11	2:B:783:VAL:HG22	1.98	0.45
2:B:1004:SER:HA	2:B:1007:THR:HG22	1.98	0.45
2:B:1033:ALA:HB3	2:B:1176:LEU:HB2	1.99	0.45
2:C:1101:ARG:CZ	2:D:214:ASN:HB3	2.46	0.45
2:D:556:ILE:HG21	2:D:986:TRP:CZ3	2.51	0.45
2:D:599:THR:O	2:D:603:SER:OG	2.27	0.45
2:D:708:ASN:HB3	2:D:711:HIS:CD2	2.51	0.45
2:F:507:ARG:NH1	2:F:968:ARG:HH21	2.14	0.45
2:F:536:PHE:CD1	2:F:1015:ILE:HB	2.51	0.45
2:G:391:LEU:HB2	2:G:1042:PHE:HE2	1.81	0.45
2:G:757:LEU:HD22	3:W:62:LEU:HD23	1.98	0.45
2:I:78:ILE:O	2:I:1058:ILE:HA	2.16	0.45
2:I:631:VAL:HG13	2:I:661:LEU:HD21	1.98	0.45
2:I:1215:TYR:O	2:I:1217:HIS:ND1	2.49	0.45
2:K:798:CYS:HB3	2:K:948:ILE:HD11	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:433:ARG:O	2:L:1367:LEU:HD21	2.15	0.45
2:M:670:LEU:HA	2:M:673:HIS:HD2	1.81	0.45
2:M:1190:ASN:OD1	2:M:1191:ASN:N	2.48	0.45
2:N:94:HIS:HE2	2:N:113:THR:HG23	1.81	0.45
2:N:211:GLN:O	2:N:215:ILE:HG12	2.15	0.45
2:N:1156:MET:HE1	2:N:1297:THR:HG21	1.98	0.45
2:N:1168:GLN:HG3	2:O:210:ILE:HD11	1.97	0.45
2:O:698:LEU:HB2	2:O:706:TYR:HE2	1.80	0.45
2:O:915:HIS:NE2	2:O:978:ALA:O	2.49	0.45
2:P:638:MET:HE1	2:P:642:ARG:NH2	2.31	0.45
2:P:807:LEU:HD13	2:P:933:TYR:HD2	1.81	0.45
2:P:1044:VAL:HG11	2:P:1096:VAL:HG13	1.98	0.45
4:g:191:TYR:HD1	4:g:200:PRO:HB3	1.81	0.45
4:j:85:TYR:HE1	4:j:168:PRO:HD3	1.81	0.45
5:k:117:GLY:N	5:k:118:PRO:HD2	2.31	0.45
5:n:145:GLU:HA	5:n:148:GLN:HG2	1.97	0.45
5:o:113:PRO:HD3	5:o:135:PRO:HA	1.98	0.45
5:r:10:CYS:SG	5:r:41:ILE:HB	2.56	0.45
5:r:20:ASP:HA	5:r:23:LYS:HE2	1.96	0.45
5:u:35:PRO:HG3	5:u:50:GLN:HE22	1.81	0.45
1:y:140:VAL:HB	1:y:142:GLU:HG2	1.96	0.45
1:3:252:ASN:HA	1:3:255:LYS:HG2	1.98	0.45
2:A:469:PRO:HB3	2:A:479:LEU:HD13	1.97	0.45
2:A:816:ALA:O	2:A:877:ARG:NH2	2.37	0.45
2:A:1119:MET:SD	2:A:1143:LEU:HD23	2.56	0.45
2:B:448:THR:HG21	2:B:1173:GLU:HB3	1.99	0.45
2:B:794:ASN:ND2	2:B:998:CYS:O	2.49	0.45
2:C:631:VAL:HG23	2:C:647:PHE:HE2	1.81	0.45
2:C:941:ARG:HH22	2:C:992:SER:H	1.64	0.45
2:C:1366:MET:HE2	2:C:1366:MET:HB3	1.66	0.45
2:D:93:PHE:HB2	2:D:116:VAL:HG23	1.98	0.45
2:D:1176:LEU:HD23	2:D:1230:ASN:ND2	2.32	0.45
2:D:1287:LEU:HA	2:D:1290:LYS:NZ	2.32	0.45
2:F:182:THR:HG21	2:F:1083:THR:HG21	1.97	0.45
2:F:1177:THR:HG1	2:F:1180:THR:HG1	1.61	0.45
2:H:419:THR:HG22	2:H:421:ARG:N	2.27	0.45
2:H:1327:THR:HG21	2:H:1333:MET:HA	1.98	0.45
2:I:230:LEU:HB2	2:I:1098:TYR:HB2	1.98	0.45
2:I:431:LEU:HA	2:I:436:ALA:O	2.16	0.45
2:I:583:ARG:NH2	2:J:572:GLU:OE2	2.49	0.45
2:J:79:LYS:N	2:J:303:GLY:O	2.39	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:394:PHE:HB3	2:J:1037:VAL:HG12	1.98	0.45
2:K:534:HIS:ND1	2:K:1239:LEU:HB3	2.30	0.45
2:K:653:LEU:O	2:K:657:ILE:HG12	2.16	0.45
2:K:1244:TYR:HA	2:K:1249:ARG:HH21	1.81	0.45
2:N:513:LYS:HE2	2:N:528:THR:HB	1.98	0.45
2:N:553:THR:HG23	2:N:910:PHE:CE1	2.50	0.45
2:O:513:LYS:NZ	2:O:532:GLU:OE2	2.49	0.45
3:f:37:HIS:CE1	3:f:39:VAL:HG12	2.51	0.45
4:g:51:PHE:HA	4:g:145:LEU:HA	1.97	0.45
5:h:144:LEU:HD12	5:h:145:GLU:N	2.31	0.45
4:j:151:ARG:HE	5:l:303:ILE:HD11	1.81	0.45
4:j:224:ALA:HA	4:j:227:ARG:HB3	1.98	0.45
5:u:231:LEU:HA	5:u:234:CYS:HB3	1.97	0.45
1:x:100:GLY:HA2	1:x:103:ARG:HG2	1.98	0.45
1:y:245:PHE:HE2	1:y:277:ILE:HD11	1.81	0.45
1:0:77:LEU:HD21	1:0:114:PHE:CG	2.51	0.45
2:A:45:ARG:N	2:G:59:ASN:HB2	2.31	0.45
2:A:522:TYR:HE2	2:A:1180:THR:HA	1.82	0.45
2:B:122:LYS:HD3	5:h:79:ASN:HB3	1.97	0.45
2:D:1296:ASP:OD1	2:D:1297:THR:N	2.49	0.45
2:E:313:VAL:HG22	2:N:332:LEU:HD12	1.98	0.45
2:F:243:LEU:HD23	2:F:246:LEU:HD12	1.99	0.45
2:F:1245:ASN:HB2	2:F:1248:HIS:HB3	1.98	0.45
2:G:733:VAL:HG12	2:G:738:PRO:HA	1.98	0.45
2:G:963:PHE:HB3	2:G:966:TYR:HD2	1.81	0.45
2:H:1035:THR:HG21	2:H:1176:LEU:HD12	1.98	0.45
2:K:647:PHE:HD1	2:K:653:LEU:HD13	1.81	0.45
2:L:451:HIS:ND1	2:L:453:VAL:HG12	2.31	0.45
2:M:892:VAL:HG11	2:M:979:PHE:HE1	1.82	0.45
2:M:1214:ILE:HD13	2:M:1268:THR:HG23	1.97	0.45
2:N:628:ARG:HG3	2:N:661:LEU:HD12	1.99	0.45
2:O:196:LEU:O	2:O:200:ALA:N	2.48	0.45
2:O:994:TYR:OH	2:O:1007:THR:HG21	2.16	0.45
2:O:1362:LEU:O	2:O:1366:MET:HG2	2.16	0.45
2:P:106:LEU:HD12	2:P:107:PRO:HD2	1.99	0.45
2:P:1290:LYS:HB3	2:P:1310:LEU:HB3	1.98	0.45
3:Q:71:SER:HA	1:x:245:PHE:CD1	2.51	0.45
3:e:40:LEU:HD13	3:e:64:LEU:HD11	1.98	0.45
5:o:88:HIS:CE1	5:o:305:LYS:HA	2.51	0.45
4:p:175:TRP:CZ3	4:p:222:LYS:HB2	2.52	0.45
1:3:77:LEU:HD21	1:3:114:PHE:CG	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:389:VAL:HG22	2:A:1310:LEU:HG	1.98	0.45
2:A:739:LEU:HD22	2:A:766:LEU:HD21	1.98	0.45
2:B:199:ASN:ND2	2:B:211:GLN:OE1	2.49	0.45
2:C:21:THR:O	2:C:25:THR:HB	2.17	0.45
2:C:574:ARG:O	2:C:578:ILE:HG12	2.17	0.45
2:D:220:LYS:HA	2:D:223:MET:HE3	1.99	0.45
2:D:1285:TYR:HA	2:D:1289:ALA:HB3	1.99	0.45
2:E:698:LEU:HD11	2:E:1127:VAL:HA	1.97	0.45
2:G:1362:LEU:O	2:G:1366:MET:HB3	2.17	0.45
2:J:478:LEU:HD11	2:J:509:VAL:HG13	1.98	0.45
2:J:485:GLN:NE2	2:J:913:ARG:HH12	2.15	0.45
2:J:760:MET:HB3	2:J:889:HIS:HD2	1.80	0.45
2:J:1332:LEU:HD13	2:J:1355:VAL:HG23	1.98	0.45
2:K:818:LEU:O	3:a:37:HIS:NE2	2.50	0.45
2:M:480:GLU:HG2	1:y:148:ILE:HB	1.98	0.45
2:N:134:ALA:HB2	4:j:159:LYS:O	2.17	0.45
2:N:294:GLU:O	2:N:357:MET:N	2.47	0.45
3:Q:68:VAL:O	3:Q:71:SER:OG	2.25	0.45
3:Z:29:PRO:HG2	3:Z:32:ILE:HG12	1.98	0.45
5:k:75:ARG:HD3	5:k:82:LEU:HD13	1.97	0.45
5:u:180:ALA:HB1	5:u:182:PHE:CE2	2.51	0.45
1:2:251:ARG:HG2	1:2:255:LYS:HE3	1.98	0.45
1:5:115:ASP:HA	1:6:93:THR:HG21	1.97	0.45
1:6:22:HIS:HB2	1:6:26:LYS:HE2	1.98	0.45
2:A:274:VAL:HB	2:A:1048:LEU:HD23	1.98	0.45
2:A:397:VAL:HG12	2:A:1034:LEU:O	2.15	0.45
2:A:452:PRO:HG3	2:A:1122:TYR:CE2	2.52	0.45
2:B:536:PHE:O	2:B:555:ARG:N	2.50	0.45
2:B:1026:ALA:HB3	2:B:1028:ILE:HG12	1.98	0.45
2:C:651:TYR:HB2	2:C:784:PHE:CG	2.52	0.45
2:C:1187:LYS:HZ2	2:C:1347:SER:HB2	1.82	0.45
2:D:1101:ARG:HD3	2:E:199:ASN:OD1	2.17	0.45
2:D:1331:ALA:HB2	2:E:407:TYR:CD2	2.51	0.45
2:E:556:ILE:O	2:E:1015:ILE:N	2.47	0.45
2:F:395:PHE:CZ	2:F:430:LEU:HD11	2.52	0.45
2:G:537:PHE:CD1	2:G:554:PRO:HA	2.50	0.45
2:H:812:PHE:HB2	3:X:65:LEU:HD21	1.98	0.45
2:I:698:LEU:HD11	2:I:1130:TRP:CD1	2.52	0.45
2:J:343:SER:OG	2:J:344:LEU:N	2.48	0.45
2:J:861:VAL:HG11	2:J:876:CYS:HB3	1.99	0.45
2:L:223:MET:O	2:L:227:LEU:HB2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:627:ILE:HD11	2:L:882:ALA:HB2	1.99	0.45
2:L:1156:MET:HE3	2:L:1294:ARG:NH1	2.32	0.45
2:M:1041:THR:H	2:M:1104:THR:HG1	1.59	0.45
2:N:867:ASP:OD1	2:N:868:ALA:N	2.49	0.45
2:N:1101:ARG:HH21	2:O:202:LEU:CD1	2.29	0.45
2:O:173:ARG:HB3	2:P:100:VAL:HG23	1.98	0.45
2:O:399:LEU:HD23	2:O:1033:ALA:HB1	1.99	0.45
2:P:791:ALA:HB3	2:P:1005:VAL:HG22	1.98	0.45
2:P:873:LEU:HD23	2:P:877:ARG:HH22	1.82	0.45
2:P:1148:ILE:HD13	2:P:1151:LEU:HD12	1.98	0.45
2:P:1325:LEU:HD22	2:P:1344:PHE:HD2	1.81	0.45
3:S:25:VAL:HA	3:S:57:LYS:HD2	1.99	0.45
3:T:68:VAL:O	3:T:71:SER:OG	2.30	0.45
4:j:167:ILE:O	4:j:274:VAL:N	2.48	0.45
4:j:211:HIS:NE2	5:k:66:ARG:HD2	2.32	0.45
5:k:218:TYR:HE2	5:l:202:LEU:HD12	1.82	0.45
5:n:190:ASP:OD2	5:n:192:HIS:ND1	2.49	0.45
4:p:182:LEU:HB2	5:q:4:MET:SD	2.57	0.45
5:t:118:PRO:C	5:t:120:ALA:H	2.24	0.45
2:A:1344:PHE:CD2	2:A:1364:GLN:HB2	2.52	0.45
2:B:1017:PRO:O	2:B:1021:VAL:HG23	2.16	0.45
2:C:1026:ALA:HB3	2:C:1028:ILE:HD12	1.99	0.45
2:D:7:LEU:HB2	2:N:92:LEU:HD23	1.99	0.45
2:D:1211:THR:HA	2:D:1214:ILE:HG22	1.99	0.45
2:F:211:GLN:O	2:F:215:ILE:HG12	2.17	0.45
2:F:461:LEU:HD13	2:F:552:CYS:HB2	1.99	0.45
2:F:491:ALA:O	2:F:495:ILE:HG13	2.17	0.45
2:G:153:ASN:O	2:G:157:MET:HG2	2.16	0.45
2:G:522:TYR:O	2:G:1227:ALA:HB3	2.17	0.45
2:I:240:LEU:HB2	2:I:287:LEU:HD21	1.97	0.45
2:I:457:PRO:HG3	2:I:537:PHE:CD2	2.52	0.45
2:I:1168:GLN:HG2	2:I:1298:ASP:O	2.16	0.45
2:J:59:ASN:HB2	2:K:95:VAL:HG22	1.98	0.45
2:J:1336:LYS:HE3	2:J:1355:VAL:HG11	1.98	0.45
2:K:375:VAL:HG23	2:K:376:TYR:CD2	2.52	0.45
2:O:661:LEU:HD23	2:O:666:LEU:HD11	1.98	0.45
2:O:867:ASP:OD1	2:O:868:ALA:N	2.50	0.45
2:P:280:MET:O	2:P:284:MET:HG2	2.16	0.45
5:k:88:HIS:HA	5:k:305:LYS:HA	1.98	0.45
5:o:289:THR:HG23	5:o:303:ILE:HG23	1.98	0.45
5:r:115:PHE:HZ	5:r:119:LEU:HA	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:274:ASP:O	1:4:277:ILE:HG22	2.16	0.45
1:7:170:ASN:O	1:7:174:VAL:HG23	2.17	0.45
2:A:431:LEU:HB2	2:A:1363:GLN:NE2	2.31	0.45
2:B:596:LEU:HD21	2:B:645:LEU:H	1.82	0.45
2:C:866:THR:OG1	2:C:872:LEU:HD23	2.17	0.45
2:C:1033:ALA:C	2:C:1034:LEU:HD12	2.42	0.45
2:D:682:ARG:HA	2:D:685:THR:HG22	1.99	0.45
2:D:1150:MET:O	2:D:1154:GLY:N	2.50	0.45
2:E:212:ARG:NH2	2:E:1202:VAL:O	2.50	0.45
2:E:537:PHE:HA	2:E:554:PRO:HA	1.98	0.45
2:E:796:ARG:HA	2:E:945:ASN:ND2	2.30	0.45
2:F:672:PHE:HZ	2:G:643:GLN:H	1.65	0.45
2:G:269:ILE:HD13	2:G:368:ILE:HD11	1.99	0.45
2:G:388:ASN:HB3	2:G:1041:THR:HG23	1.98	0.45
2:H:450:CYS:SG	2:H:1131:ILE:HD12	2.57	0.45
2:H:537:PHE:CE1	2:H:554:PRO:HB3	2.52	0.45
2:H:615:VAL:HG12	2:H:804:LEU:HD11	1.99	0.45
2:I:1177:THR:HG22	2:I:1232:TRP:CZ3	2.51	0.45
2:K:212:ARG:HH12	2:K:1204:PRO:HD3	1.81	0.45
2:K:1143:LEU:HD13	4:s:221:GLY:HA3	1.97	0.45
2:M:195:THR:HG21	2:M:215:ILE:HG23	1.98	0.45
2:N:583:ARG:HH12	2:O:999:PRO:HD3	1.81	0.45
2:O:134:ALA:O	2:O:137:THR:HG22	2.16	0.45
2:O:209:ARG:O	2:O:212:ARG:HG2	2.16	0.45
4:g:140:LEU:HB3	4:g:141:GLY:H	1.60	0.45
5:h:161:SER:O	5:h:165:VAL:N	2.47	0.45
4:j:40:HIS:HA	4:j:43:HIS:HE2	1.82	0.45
5:q:13:ASP:H	5:q:43:HIS:CE1	2.35	0.45
1:x:60:LEU:O	1:x:64:ARG:HG3	2.16	0.45
1:y:49:ARG:HE	1:y:238:GLU:HG3	1.81	0.45
1:3:103:ARG:HE	5:n:159:ASP:CG	2.25	0.45
2:B:618:HIS:CE1	2:B:887:GLY:HA3	2.52	0.45
2:B:1233:ALA:HA	2:B:1240:SER:OG	2.16	0.45
2:C:590:TYR:HA	2:C:676:ASN:HD21	1.81	0.45
2:C:941:ARG:NH2	2:C:988:ARG:O	2.49	0.45
2:D:556:ILE:HG21	2:D:986:TRP:HZ3	1.82	0.45
2:E:311:ASN:HD21	2:E:325:PHE:HB2	1.81	0.45
2:E:1115:ARG:HG3	2:E:1158:GLU:OE2	2.16	0.45
2:G:184:LEU:HD23	2:G:1048:LEU:HD11	1.99	0.45
2:H:224:LEU:HD22	2:H:1360:ILE:HD11	1.97	0.45
2:H:435:ARG:H	2:H:1367:LEU:HD21	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:890:VAL:HA	2:H:919:ASN:HB3	1.99	0.45
2:I:1246:THR:HA	2:I:1249:ARG:HB3	1.98	0.45
2:K:1183:VAL:HG12	2:K:1187:LYS:HE2	1.99	0.45
2:O:450:CYS:SG	2:O:1131:ILE:HD12	2.57	0.45
4:p:183:GLN:HG2	4:p:256:ALA:HB2	1.97	0.45
4:p:263:PHE:CE2	4:p:270:LYS:HE3	2.51	0.45
4:s:54:GLU:HB3	4:s:142:ILE:HA	1.99	0.45
1:1:274:ASP:O	1:1:277:ILE:HG22	2.17	0.45
1:3:98:ASP:N	1:3:98:ASP:OD1	2.50	0.45
1:4:99:ARG:HH21	5:r:171:GLN:HE22	1.64	0.45
1:7:73:LEU:O	1:7:77:LEU:N	2.42	0.45
1:8:93:THR:HA	4:s:237:ARG:HH21	1.82	0.45
2:B:202:LEU:HD22	2:G:378:ASN:HA	1.99	0.45
2:B:1138:GLU:HG2	2:C:473:PRO:HG2	1.99	0.45
2:C:495:ILE:HG23	2:C:496:PRO:HD3	1.99	0.45
2:C:610:CYS:HB2	2:C:649:HIS:CE1	2.52	0.45
2:D:211:GLN:O	2:D:215:ILE:HG12	2.17	0.45
2:D:451:HIS:CD2	2:D:1113:LEU:HB3	2.52	0.45
2:D:638:MET:SD	2:D:864:VAL:HG13	2.57	0.45
2:D:884:GLN:O	3:T:66:ARG:NH2	2.50	0.45
2:E:794:ASN:HB3	2:E:996:ALA:HA	1.98	0.45
2:F:63:TRP:CH2	2:F:165:LYS:HD2	2.50	0.45
2:F:392:THR:HA	2:F:1039:THR:HA	1.98	0.45
2:F:1127:VAL:O	2:F:1131:ILE:HG12	2.17	0.45
2:F:1185:TYR:OH	2:F:1191:ASN:O	2.22	0.45
2:J:603:SER:HB3	2:J:605:ASN:OD1	2.17	0.45
2:K:23:VAL:HG21	2:O:95:VAL:HG11	1.98	0.45
2:K:524:VAL:HA	2:K:1227:ALA:HB2	1.99	0.45
2:K:1164:THR:O	2:L:213:SER:HB3	2.17	0.45
2:L:92:LEU:HB3	2:N:7:LEU:HD22	1.99	0.45
2:L:698:LEU:O	2:L:700:GLU:N	2.49	0.45
5:i:116:HIS:NE2	5:i:185:PRO:HD3	2.32	0.45
5:k:102:TRP:HH2	5:k:137:ILE:HB	1.82	0.45
5:l:245:ARG:HH22	5:l:250:PRO:HD2	1.82	0.45
1:x:137:LYS:O	1:x:141:ARG:N	2.49	0.45
1:3:119:ARG:HA	1:3:214:ARG:HH21	1.81	0.45
1:8:120:HIS:O	1:8:124:ILE:HG12	2.17	0.45
2:A:1190:ASN:OD1	2:A:1191:ASN:N	2.49	0.45
2:B:890:VAL:HA	2:B:919:ASN:HB2	1.98	0.45
2:C:291:ILE:HG12	2:C:360:ILE:HG22	1.99	0.45
2:C:515:ASP:HA	2:C:993:ARG:NH2	2.31	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:811:LEU:HD11	2:C:857:LEU:HD13	1.98	0.45
2:D:1035:THR:HG22	2:D:1186:PHE:CE1	2.51	0.45
2:E:1233:ALA:HA	2:E:1240:SER:OG	2.16	0.45
2:E:1330:LEU:HD13	2:F:1183:VAL:HG11	1.98	0.45
2:F:702:PRO:HG3	2:G:964:PRO:HG2	1.98	0.45
2:F:1105:ASP:OD2	2:F:1107:GLY:HA2	2.17	0.45
2:H:63:TRP:HZ3	2:H:169:ASP:HB2	1.81	0.45
2:H:128:PRO:HA	2:H:1075:TYR:O	2.17	0.45
2:I:537:PHE:CZ	2:I:906:GLY:HA3	2.52	0.45
2:I:723:LEU:HB2	2:I:771:TYR:CE1	2.52	0.45
2:J:388:ASN:OD1	2:J:388:ASN:N	2.50	0.45
2:J:1348:GLU:O	2:J:1355:VAL:N	2.50	0.45
2:K:7:LEU:HD22	2:O:92:LEU:HD23	1.99	0.45
2:K:42:ASP:O	2:K:45:ARG:NH1	2.50	0.45
2:K:1039:THR:HG21	2:K:1259:TYR:HE2	1.81	0.45
2:L:661:LEU:HD23	2:L:666:LEU:HD21	1.99	0.45
2:L:1039:THR:HG21	2:L:1259:TYR:HE2	1.81	0.45
2:L:1103:ARG:HB2	2:M:210:ILE:HG21	1.99	0.45
2:M:626:LEU:HD21	3:c:75:ARG:HB2	1.99	0.45
2:N:513:LYS:NZ	2:N:532:GLU:OE2	2.44	0.45
2:P:209:ARG:O	2:P:212:ARG:HG2	2.17	0.45
2:P:732:VAL:HG22	2:P:895:VAL:HG22	1.98	0.45
2:P:1156:MET:HE1	2:P:1294:ARG:HH11	1.82	0.45
3:d:34:GLU:HA	3:d:40:LEU:HD23	1.98	0.45
5:l:10:CYS:SG	5:l:41:ILE:HB	2.57	0.45
5:t:253:PRO:HB2	5:u:162:TYR:HE2	1.81	0.45
1:x:74:SER:O	1:x:78:GLU:HG2	2.17	0.45
1:y:83:ARG:HH22	1:y:186:LEU:HD11	1.81	0.45
1:3:181:VAL:HG12	1:3:183:PRO:HD3	1.99	0.44
1:4:186:LEU:HD22	1:4:202:LYS:HG2	1.98	0.44
1:5:235:LEU:HD23	1:5:254:LEU:HD21	1.99	0.44
1:9:50:THR:OG1	1:9:283:PRO:O	2.26	0.44
2:A:64:VAL:HG21	2:A:375:VAL:HG12	1.99	0.44
2:A:568:GLY:HA2	2:A:571:HIS:HD2	1.82	0.44
2:B:551:LEU:O	2:B:983:TYR:OH	2.35	0.44
2:C:212:ARG:NH2	2:C:1203:ASP:HA	2.31	0.44
2:C:797:ALA:O	2:C:943:TYR:HA	2.17	0.44
2:D:2:GLU:OE2	2:N:90:LYS:NZ	2.49	0.44
2:D:134:ALA:HA	2:D:137:THR:HG22	1.98	0.44
2:E:450:CYS:O	2:E:1122:TYR:OH	2.34	0.44
2:E:708:ASN:C	2:E:710:LEU:H	2.24	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:859:GLU:HB3	2:F:929:THR:HG21	1.98	0.44
2:G:966:TYR:CD1	2:G:974:PRO:HD3	2.52	0.44
2:H:299:PRO:HA	2:H:352:LEU:HD23	1.99	0.44
2:H:343:SER:OG	2:H:344:LEU:N	2.50	0.44
2:H:818:LEU:HD23	3:X:32:ILE:HG13	1.99	0.44
2:H:1285:TYR:HA	2:H:1289:ALA:HB3	1.97	0.44
2:J:701:GLU:HG3	2:J:714:ARG:HH12	1.82	0.44
2:J:739:LEU:HD22	2:J:766:LEU:HD21	1.99	0.44
2:K:747:ARG:NH2	2:K:767:PHE:O	2.47	0.44
2:K:1041:THR:N	2:K:1104:THR:OG1	2.49	0.44
2:L:79:LYS:N	2:L:303:GLY:O	2.41	0.44
2:L:387:ARG:NH1	2:L:1046:MET:HE1	2.31	0.44
2:O:416:LEU:HD13	2:O:422:ASN:HB3	1.98	0.44
2:O:812:PHE:C	2:O:814:ARG:H	2.24	0.44
2:O:1193:ARG:NH2	2:O:1197:SER:HB3	2.29	0.44
2:P:212:ARG:HH12	2:P:1204:PRO:HD3	1.82	0.44
2:P:565:LEU:HD22	2:P:1177:THR:HG21	2.00	0.44
5:h:59:VAL:HG21	5:h:193:LEU:HD21	1.98	0.44
5:k:272:PHE:CE2	5:l:148:GLN:HG2	2.52	0.44
5:l:113:PRO:HD3	5:l:135:PRO:HA	1.98	0.44
5:n:48:LEU:HD12	5:n:65:LEU:HD13	1.99	0.44
5:n:149:ARG:HA	5:n:152:ILE:HG22	1.98	0.44
5:n:223:ALA:HA	5:n:231:LEU:HD21	1.99	0.44
1:x:274:ASP:O	1:x:277:ILE:HG22	2.17	0.44
1:l:148:ILE:HG13	2:D:480:GLU:HG2	1.98	0.44
1:8:245:PHE:HZ	3:a:67:MET:HE3	1.82	0.44
2:A:339:LEU:N	2:A:340:PRO:HD2	2.32	0.44
2:A:495:ILE:CG2	2:A:496:PRO:HD3	2.48	0.44
2:B:914:GLN:CD	2:B:986:TRP:HD1	2.25	0.44
2:B:1133:HIS:NE2	2:C:477:ARG:HD3	2.33	0.44
2:D:400:TYR:HB3	2:D:1178:PRO:HB2	1.99	0.44
2:D:647:PHE:CD1	2:D:653:LEU:HD23	2.51	0.44
2:D:850:ARG:HA	2:D:853:VAL:HG22	1.99	0.44
2:F:457:PRO:HB3	2:F:537:PHE:CD2	2.53	0.44
2:G:1291:ASP:N	2:G:1311:ILE:O	2.46	0.44
2:H:63:TRP:CH2	2:H:165:LYS:HB3	2.52	0.44
2:H:901:HIS:HB3	2:H:1124:HIS:HB2	1.99	0.44
2:J:554:PRO:HD3	2:J:907:LEU:HD12	1.99	0.44
2:K:1163:ALA:HB2	2:L:1202:VAL:HG22	1.99	0.44
2:L:1057:VAL:HA	2:L:1082:ASN:O	2.17	0.44
2:M:940:HIS:HE1	2:M:987:LEU:HD12	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:976:PRO:HD2	2:M:979:PHE:HD2	1.82	0.44
2:N:752:SER:HB2	3:d:63:ASP:OD2	2.17	0.44
2:O:128:PRO:HB3	2:O:1076:HIS:CE1	2.53	0.44
2:O:195:THR:HG23	2:O:218:SER:HB3	1.99	0.44
2:O:668:PRO:HB2	2:P:643:GLN:HG3	1.98	0.44
2:P:212:ARG:HD3	2:P:1200:LEU:O	2.16	0.44
3:d:29:PRO:HG2	3:d:32:ILE:HG12	1.99	0.44
4:p:188:ILE:HG12	4:p:248:ILE:HG12	1.99	0.44
5:q:115:PHE:HE2	5:q:185:PRO:HB3	1.82	0.44
5:q:202:LEU:HD13	5:r:230:LEU:HD13	1.99	0.44
5:q:291:CYS:SG	5:q:301:THR:OG1	2.67	0.44
4:s:134:CYS:HB2	4:s:154:LEU:HD11	1.99	0.44
5:t:199:THR:HG23	5:t:281:LEU:HD21	1.99	0.44
5:t:205:SER:HA	5:u:238:LEU:HD21	1.99	0.44
5:u:30:ALA:HA	5:u:95:LEU:HB3	1.99	0.44
1:1:178:MET:HE1	1:1:217:TRP:HB2	1.99	0.44
1:5:173:GLY:HA2	1:5:176:ARG:HG2	1.99	0.44
2:B:461:LEU:HD13	2:B:552:CYS:HB2	2.00	0.44
2:B:770:ASP:OD1	2:B:771:TYR:N	2.50	0.44
2:C:202:LEU:HD12	2:C:203:ALA:CB	2.48	0.44
2:C:457:PRO:HG3	2:C:907:LEU:HG	1.98	0.44
2:C:892:VAL:HG11	2:C:979:PHE:CE1	2.52	0.44
2:C:1325:LEU:HA	2:C:1356:VAL:O	2.17	0.44
2:D:212:ARG:NH1	2:D:1204:PRO:HD3	2.32	0.44
2:D:812:PHE:C	2:D:814:ARG:H	2.26	0.44
2:E:556:ILE:O	2:E:1015:ILE:HG12	2.17	0.44
2:F:538:ASP:HB2	2:F:555:ARG:HG3	2.00	0.44
2:G:130:GLU:HA	2:G:1074:THR:HA	2.00	0.44
2:G:1044:VAL:HG11	2:G:1096:VAL:HG22	1.98	0.44
2:H:408:THR:HG23	2:H:1350:HIS:ND1	2.33	0.44
2:H:693:LEU:HB3	2:H:1022:LEU:HD11	1.98	0.44
2:H:965:HIS:HB2	2:H:968:ARG:HH12	1.82	0.44
2:H:1296:ASP:OD1	2:H:1297:THR:N	2.50	0.44
2:I:188:PRO:HG3	2:I:1090:TYR:CD2	2.53	0.44
2:I:1066:LYS:HG3	2:I:1075:TYR:HE1	1.82	0.44
2:J:946:PRO:HG3	2:J:973:PHE:HD1	1.83	0.44
2:K:597:PHE:HE1	2:K:648:ALA:HB1	1.82	0.44
2:L:1165:VAL:HG23	2:M:216:LEU:HD23	1.99	0.44
2:M:375:VAL:HG23	2:M:376:TYR:CD2	2.53	0.44
2:M:716:TRP:CE2	2:M:895:VAL:HG11	2.52	0.44
2:P:431:LEU:HD23	2:P:436:ALA:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:32:ILE:HG23	3:Y:37:HIS:CD2	2.52	0.44
3:a:29:PRO:HG2	3:a:32:ILE:HG12	1.99	0.44
5:q:110:VAL:HG23	5:q:287:VAL:HG11	1.99	0.44
4:s:216:VAL:O	4:s:220:ARG:HG3	2.16	0.44
5:t:275:LEU:O	5:t:279:ASP:HB2	2.17	0.44
1:w:194:THR:HG22	1:w:196:LEU:H	1.82	0.44
1:x:14:VAL:O	1:x:18:ASN:ND2	2.50	0.44
1:x:73:LEU:HB3	1:x:214:ARG:HH22	1.82	0.44
1:5:246:ASP:HB2	1:5:278:TYR:HA	1.98	0.44
2:B:681:LEU:HB3	2:B:780:LEU:HD22	2.00	0.44
2:C:712:ASP:O	2:C:782:LYS:NZ	2.44	0.44
2:C:1122:TYR:HB2	2:C:1128:ASP:HB2	1.99	0.44
2:D:438:GLN:HG3	2:D:1108:VAL:HG23	1.99	0.44
2:D:543:GLN:HB2	2:D:548:THR:HG22	1.99	0.44
2:E:800:LEU:HD22	2:E:952:LEU:HD21	2.00	0.44
2:G:1115:ARG:NH2	2:G:1158:GLU:OE2	2.49	0.44
2:H:1182:ASP:HA	2:H:1186:PHE:HD2	1.81	0.44
2:I:136:LEU:HG	2:I:140:ARG:HH12	1.81	0.44
2:I:1215:TYR:CD1	2:I:1236:ALA:HB2	2.53	0.44
2:I:1364:GLN:O	2:I:1368:PHE:HB3	2.17	0.44
2:K:455:HIS:NE2	2:K:1017:PRO:HB3	2.33	0.44
2:K:583:ARG:HH12	2:L:998:CYS:HA	1.83	0.44
2:L:130:GLU:HB3	2:L:1074:THR:HG22	2.00	0.44
2:L:1027:HIS:CE1	2:M:520:ASP:HB2	2.50	0.44
2:L:1058:ILE:HD11	2:L:1082:ASN:HD22	1.82	0.44
2:M:1193:ARG:HH12	2:M:1195:ARG:HD3	1.82	0.44
2:N:1202:VAL:HG11	2:N:1210:ALA:HB2	1.98	0.44
2:O:1290:LYS:HG2	2:O:1312:GLU:HA	1.99	0.44
2:P:594:LEU:HA	2:P:597:PHE:HB3	1.99	0.44
2:P:708:ASN:ND2	2:P:710:LEU:HB3	2.32	0.44
2:P:1060:ASN:O	2:P:1079:GLN:NE2	2.30	0.44
3:U:26:LEU:HB3	3:U:28:LEU:HG	2.00	0.44
4:j:121:GLY:HA3	4:j:128:ARG:NH2	2.32	0.44
4:s:285:ASP:OD1	4:s:286:PHE:N	2.50	0.44
4:s:288:GLU:OE1	4:s:288:GLU:N	2.46	0.44
1:v:97:GLY:H	1:v:141:ARG:HH22	1.64	0.44
1:7:98:ASP:N	1:7:98:ASP:OD1	2.51	0.44
2:A:1310:LEU:HD12	2:A:1313:ASN:HD21	1.81	0.44
2:A:1325:LEU:HA	2:A:1356:VAL:O	2.18	0.44
2:B:147:ILE:O	2:B:151:ILE:HG12	2.18	0.44
2:B:227:LEU:HD21	2:B:391:LEU:HD21	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:257:ASN:OD1	2:B:257:ASN:N	2.50	0.44
2:C:22:HIS:CD2	2:C:23:VAL:H	2.35	0.44
2:C:224:LEU:HD22	2:C:1360:ILE:HD11	1.99	0.44
2:C:446:LEU:HD11	2:C:1021:VAL:HG22	1.99	0.44
2:C:1177:THR:HG22	2:C:1232:TRP:HZ3	1.82	0.44
2:D:724:PRO:HD3	2:D:778:TRP:CZ3	2.53	0.44
2:D:1245:ASN:O	2:D:1249:ARG:N	2.41	0.44
2:E:255:LEU:HD11	2:E:1053:SER:HB2	1.99	0.44
2:E:495:ILE:HG23	2:E:496:PRO:HD3	1.99	0.44
2:E:1244:TYR:HB2	2:E:1266:PHE:CD2	2.53	0.44
2:E:1285:TYR:CG	2:E:1317:LEU:HD12	2.52	0.44
2:E:1332:LEU:O	2:E:1336:LYS:HG2	2.17	0.44
2:F:359:VAL:HG12	2:F:368:ILE:HD13	2.00	0.44
2:G:945:ASN:ND2	2:G:947:THR:OG1	2.50	0.44
2:H:627:ILE:O	2:H:631:VAL:HG12	2.17	0.44
2:H:643:GLN:HG3	2:M:668:PRO:HB2	1.99	0.44
2:H:1124:HIS:HE1	2:H:1126:GLU:HB3	1.82	0.44
2:I:895:VAL:HB	2:I:914:GLN:HB2	1.98	0.44
2:J:275:SER:HB2	2:J:280:MET:HE3	1.99	0.44
2:J:400:TYR:HB3	2:J:1178:PRO:HB2	1.98	0.44
2:J:725:ARG:NH2	2:K:961:THR:O	2.51	0.44
2:J:1214:ILE:HD13	2:J:1268:THR:HG23	2.00	0.44
2:K:359:VAL:HG12	2:K:368:ILE:HD13	2.00	0.44
2:K:1004:SER:HA	2:K:1007:THR:HG22	2.00	0.44
2:L:295:THR:HA	2:L:356:SER:HA	1.99	0.44
2:L:533:LEU:HD12	2:L:539:PHE:CG	2.52	0.44
2:M:271:GLY:HA2	2:M:1051:GLY:HA2	2.00	0.44
2:N:66:PHE:HD1	2:N:176:ILE:HD13	1.82	0.44
2:N:527:ILE:HG22	2:N:1218:ARG:HH22	1.81	0.44
2:N:628:ARG:HA	2:N:631:VAL:HG12	1.98	0.44
2:O:87:THR:HG22	2:O:88:THR:HG23	2.00	0.44
2:P:1196:ALA:HB3	2:P:1222:ALA:HB3	1.99	0.44
5:i:97:THR:HG23	5:i:99:PRO:CD	2.46	0.44
5:o:33:PRO:HB2	5:o:68:MET:HE3	1.98	0.44
1:z:124:ILE:HD13	1:z:127:ARG:NH2	2.30	0.44
2:A:607:PRO:HG2	2:A:610:CYS:HB2	2.00	0.44
2:B:760:MET:O	2:B:761:ASP:HB2	2.17	0.44
2:C:382:LYS:HE3	2:C:386:GLU:O	2.16	0.44
2:D:495:ILE:CG2	2:D:496:PRO:HD3	2.48	0.44
2:E:1177:THR:HG22	2:E:1232:TRP:CZ3	2.52	0.44
2:G:426:THR:HG22	2:G:427:THR:HG23	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:622:ASP:HA	2:G:625:LEU:HD13	1.98	0.44
2:G:947:THR:HG22	2:G:967:HIS:NE2	2.33	0.44
2:H:945:ASN:ND2	2:H:947:THR:OG1	2.50	0.44
2:I:424:LEU:HD11	2:I:573:LEU:HB3	1.99	0.44
2:I:608:GLU:CD	2:I:927:PRO:HA	2.43	0.44
2:J:209:ARG:HG3	2:J:212:ARG:HH12	1.83	0.44
2:J:341:ASN:OD1	2:J:342:ASP:N	2.51	0.44
2:J:1109:ARG:HH21	2:K:1225:PHE:HB3	1.82	0.44
2:J:1195:ARG:NE	2:J:1213:ALA:O	2.45	0.44
2:K:424:LEU:HD11	2:K:573:LEU:HB3	1.99	0.44
2:K:535:PRO:O	2:K:555:ARG:HD2	2.18	0.44
2:N:1165:VAL:O	2:O:213:SER:HB2	2.18	0.44
2:O:732:VAL:O	2:O:739:LEU:HB3	2.18	0.44
2:O:1065:THR:HG22	2:O:1076:HIS:O	2.17	0.44
2:O:1148:ILE:HB	4:s:117:TRP:HE1	1.83	0.44
2:P:716:TRP:NE1	2:P:895:VAL:HG11	2.32	0.44
2:P:732:VAL:O	2:P:739:LEU:HB3	2.18	0.44
2:P:1064:VAL:HG22	2:P:1077:VAL:HG12	1.98	0.44
5:i:62:ARG:HH12	5:i:147:ASN:ND2	2.15	0.44
5:k:138:VAL:HB	5:k:142:LEU:HD23	1.97	0.44
4:m:68:ILE:HD12	4:m:129:LEU:HD22	1.99	0.44
5:q:189:ILE:HA	5:q:193:LEU:HD12	1.99	0.44
5:t:13:ASP:OD1	5:t:42:LYS:NZ	2.50	0.44
1:v:57:MET:HE1	1:v:272:ILE:HG12	1.98	0.44
1:z:59:TRP:CH2	1:z:227:ARG:HG3	2.53	0.44
1:0:142:GLU:HG2	2:N:738:PRO:HG2	1.98	0.44
1:7:43:GLU:O	1:7:45:ARG:N	2.46	0.44
2:A:478:LEU:HD12	2:A:479:LEU:N	2.33	0.44
2:A:478:LEU:HD11	2:A:530:TYR:OH	2.17	0.44
2:A:722:HIS:CD2	2:A:769:ASP:HB3	2.52	0.44
2:A:926:ALA:HB1	2:A:952:LEU:HD13	2.00	0.44
2:A:1070:ASP:O	2:A:1072:SER:N	2.51	0.44
2:A:1304:VAL:HG21	5:i:44:TYR:CE2	2.52	0.44
2:B:437:VAL:HB	2:C:1184:ASN:OD1	2.18	0.44
2:C:277:ALA:O	2:C:281:GLN:HG2	2.17	0.44
2:C:518:VAL:HG23	2:C:519:THR:H	1.82	0.44
2:C:747:ARG:HH12	2:C:888:GLU:HG2	1.82	0.44
2:D:1109:ARG:HE	2:D:1169:LYS:HB3	1.82	0.44
2:D:1164:THR:HG21	2:D:1298:ASP:HB2	1.99	0.44
2:E:134:ALA:O	2:E:137:THR:HG22	2.17	0.44
2:E:1118:PRO:HG3	2:E:1150:MET:SD	2.58	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:54:PHE:HE2	2:G:1084:VAL:HG11	1.82	0.44
2:F:565:LEU:O	2:F:1178:PRO:HG2	2.18	0.44
2:F:716:TRP:HE3	2:F:916:VAL:HG21	1.82	0.44
2:G:63:TRP:HH2	2:G:165:LYS:HB3	1.83	0.44
2:G:255:LEU:HD21	2:G:1086:MET:HE2	2.00	0.44
2:H:210:ILE:HG21	2:M:1103:ARG:HB3	2.00	0.44
2:I:667:PRO:HG2	2:I:670:LEU:HD12	2.00	0.44
2:I:970:ASP:OD1	2:I:970:ASP:N	2.51	0.44
2:K:628:ARG:HA	2:K:631:VAL:HG12	1.99	0.44
2:L:800:LEU:HA	2:L:937:VAL:HG12	2.00	0.44
2:O:535:PRO:HD3	2:O:1232:TRP:CD1	2.52	0.44
2:O:1183:VAL:HA	2:O:1187:LYS:HE2	1.99	0.44
2:P:253:SER:HA	2:P:1087:GLY:HA2	1.99	0.44
2:P:518:VAL:HB	2:P:1179:VAL:HG11	2.00	0.44
2:P:895:VAL:HB	2:P:914:GLN:HB2	1.99	0.44
4:g:114:ALA:O	4:g:118:LEU:HG	2.18	0.44
5:h:62:ARG:NH1	5:h:66:ARG:HH21	2.15	0.44
5:h:123:ASN:C	5:h:125:LEU:H	2.24	0.44
4:j:181:ARG:HH21	5:k:1:MET:HB2	1.82	0.44
5:n:114:LEU:HD22	5:n:184:ILE:HA	1.99	0.44
5:o:33:PRO:HG3	5:o:48:LEU:HD12	1.99	0.44
1:v:43:GLU:C	1:v:45:ARG:H	2.25	0.44
1:2:63:TYR:HE1	1:2:221:GLU:HG3	1.83	0.44
1:4:178:MET:HB2	1:4:213:VAL:HG13	1.99	0.44
1:4:253:ILE:HD11	2:H:751:VAL:HG21	2.00	0.44
1:9:16:LEU:HD13	1:9:58:LEU:HD21	1.99	0.44
2:A:329:LYS:O	2:A:333:THR:HG23	2.18	0.44
2:A:395:PHE:CZ	2:A:430:LEU:HD11	2.53	0.44
2:B:53:ILE:HG22	2:C:321:ILE:O	2.18	0.44
2:B:498:PHE:CE2	2:B:976:PRO:HA	2.52	0.44
2:B:662:ALA:HB1	2:C:605:ASN:CG	2.43	0.44
2:C:22:HIS:O	2:C:26:SER:OG	2.30	0.44
2:C:1278:LEU:HA	2:C:1281:THR:HG22	1.99	0.44
2:D:243:LEU:HA	2:D:246:LEU:HD12	1.99	0.44
2:D:298:ALA:HB3	2:D:355:LEU:HD21	2.00	0.44
2:D:1195:ARG:NH2	2:D:1216:ASP:O	2.50	0.44
2:F:536:PHE:HB3	2:F:1015:ILE:HD13	1.99	0.44
2:G:83:LEU:HD11	2:G:1058:ILE:HG13	2.00	0.44
2:G:317:SER:OG	2:G:318:TYR:N	2.50	0.44
2:G:513:LYS:NZ	2:G:532:GLU:OE2	2.35	0.44
2:G:1182:ASP:N	2:G:1182:ASP:OD1	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:73:ALA:HA	2:I:261:TYR:CZ	2.53	0.44
2:J:277:ALA:HB2	2:J:371:ASN:HD21	1.83	0.44
2:J:455:HIS:CE1	2:J:1017:PRO:HB3	2.52	0.44
2:J:534:HIS:HD2	2:J:537:PHE:HD1	1.65	0.44
2:J:537:PHE:HB3	2:J:552:CYS:SG	2.57	0.44
2:M:698:LEU:HD11	2:M:1130:TRP:CD1	2.52	0.44
2:N:653:LEU:O	2:N:657:ILE:HG12	2.18	0.44
2:N:698:LEU:HD13	2:N:703:LEU:HD13	2.00	0.44
2:N:1189:PRO:HB3	2:N:1322:LEU:HD23	2.00	0.44
2:N:1366:MET:HE2	2:N:1366:MET:HB3	1.81	0.44
2:O:125:ILE:CG1	2:O:1079:GLN:HB3	2.48	0.44
2:O:556:ILE:HG21	2:O:986:TRP:CZ3	2.43	0.44
2:P:1217:HIS:ND1	2:P:1228:THR:OG1	2.51	0.44
5:k:290:VAL:HA	5:k:301:THR:O	2.16	0.44
5:n:141:PRO:HB2	5:n:177:PHE:CZ	2.53	0.44
5:o:142:LEU:HD11	5:o:177:PHE:CG	2.52	0.44
5:r:151:LEU:HD21	5:r:281:LEU:HD13	1.99	0.44
5:t:198:LYS:HA	5:u:222:LEU:HD13	1.99	0.44
1:2:67:ARG:HA	1:2:217:TRP:HH2	1.83	0.44
2:C:209:ARG:O	2:C:212:ARG:HG2	2.18	0.44
2:C:435:ARG:CG	2:C:1367:LEU:HD13	2.48	0.44
2:C:904:ARG:HB3	2:C:1123:ARG:HH21	1.83	0.44
2:D:7:LEU:HD12	2:N:92:LEU:HD23	2.00	0.44
2:D:39:TYR:HB3	2:N:110:ARG:HE	1.83	0.44
2:D:62:GLU:OE2	2:D:377:LYS:NZ	2.44	0.44
2:D:446:LEU:HA	2:D:449:LEU:HB2	1.99	0.44
2:D:1004:SER:HA	2:D:1007:THR:HG22	1.99	0.44
2:D:1155:SER:HB2	2:D:1257:LYS:HB2	1.98	0.44
2:F:725:ARG:HH11	2:F:771:TYR:HB2	1.83	0.44
2:G:850:ARG:HA	2:G:853:VAL:HG22	2.00	0.44
2:H:83:LEU:HD22	2:H:1080:ASN:HB3	2.00	0.44
2:H:760:MET:HB3	2:H:889:HIS:ND1	2.33	0.44
2:I:880:PHE:HZ	3:Y:68:VAL:HB	1.83	0.44
2:I:1164:THR:CG2	2:J:209:ARG:HG2	2.48	0.44
2:J:537:PHE:CE2	2:J:554:PRO:HB3	2.53	0.44
2:J:1183:VAL:HG12	2:J:1187:LYS:HE2	1.99	0.44
2:K:439:LYS:NZ	2:L:519:THR:OG1	2.50	0.44
2:K:1058:ILE:O	2:K:1081:ILE:HA	2.18	0.44
2:L:450:CYS:SG	2:L:1131:ILE:HD12	2.58	0.44
2:L:1277:THR:HB	2:N:29:GLU:HA	1.99	0.44
2:M:269:ILE:HA	2:M:366:THR:OG1	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:606:TYR:OH	2:N:610:CYS:SG	2.58	0.44
2:N:1177:THR:HG22	2:N:1232:TRP:CZ3	2.53	0.44
2:P:188:PRO:HB3	2:P:1282:ILE:HD13	2.00	0.44
2:P:487:PRO:O	2:P:494:ARG:NH2	2.51	0.44
2:P:798:CYS:HB3	2:P:948:ILE:HG21	2.00	0.44
3:Y:29:PRO:HG2	3:Y:32:ILE:HG12	2.00	0.44
5:n:288:PHE:CD1	5:n:305:LYS:HG2	2.53	0.44
5:r:206:MET:HG3	5:r:274:MET:HE3	2.00	0.44
5:t:86:PRO:HB2	5:t:305:LYS:HE2	1.99	0.44
1:v:140:VAL:HG21	1:v:158:HIS:NE2	2.33	0.44
1:w:129:LEU:HD13	1:w:154:ILE:HG21	2.00	0.44
1:z:98:ASP:OD1	1:z:98:ASP:N	2.49	0.44
1:5:194:THR:HB	1:5:197:VAL:HG23	2.00	0.43
1:7:8:LEU:HG	1:7:54:ASN:HD21	1.83	0.43
1:7:170:ASN:C	1:7:170:ASN:HD22	2.26	0.43
2:A:65:TYR:HA	2:A:172:GLU:OE1	2.18	0.43
2:A:534:HIS:CD2	2:A:536:PHE:H	2.36	0.43
2:A:687:ILE:HD11	2:A:1006:MET:SD	2.57	0.43
2:A:812:PHE:HA	2:A:817:PHE:HD2	1.83	0.43
2:B:926:ALA:HB3	2:B:952:LEU:HD11	2.00	0.43
2:C:707:VAL:HG12	2:C:1019:SER:HA	2.00	0.43
2:C:1056:SER:HB2	2:C:1086:MET:HE2	1.99	0.43
2:D:147:ILE:O	2:D:151:ILE:HG12	2.17	0.43
2:E:647:PHE:CD1	2:E:653:LEU:HD13	2.53	0.43
2:F:79:LYS:N	2:F:303:GLY:O	2.51	0.43
2:F:391:LEU:HB2	2:F:1042:PHE:HE2	1.83	0.43
2:F:420:VAL:HG23	2:F:585:ARG:NH1	2.30	0.43
2:F:472:GLU:OE2	2:F:1218:ARG:HG3	2.18	0.43
2:G:534:HIS:HB2	2:G:539:PHE:HE2	1.83	0.43
2:G:1150:MET:O	2:G:1152:THR:N	2.51	0.43
2:G:1263:ALA:HB1	2:G:1267:ASN:ND2	2.32	0.43
2:H:756:ARG:HG3	2:H:767:PHE:CZ	2.53	0.43
2:K:209:ARG:O	2:K:212:ARG:HG2	2.17	0.43
2:K:495:ILE:HG23	2:K:496:PRO:HD3	1.99	0.43
2:K:611:TYR:CZ	2:K:923:VAL:HG13	2.53	0.43
2:L:651:TYR:HB2	2:L:784:PHE:CG	2.53	0.43
2:L:748:HIS:ND1	2:L:753:ASP:OD1	2.51	0.43
2:L:756:ARG:HG3	2:L:767:PHE:CE1	2.53	0.43
2:M:425:PRO:HB3	2:M:1328:THR:CG2	2.45	0.43
2:M:534:HIS:HD2	2:M:537:PHE:HD2	1.64	0.43
2:N:1233:ALA:HA	2:N:1240:SER:OG	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:493:ARG:NH1	2:O:935:LEU:HD11	2.32	0.43
2:P:1221:ASP:OD1	2:P:1222:ALA:N	2.51	0.43
5:h:195:ILE:HA	5:h:198:LYS:HE2	1.98	0.43
5:l:173:GLN:HG3	5:l:184:ILE:O	2.18	0.43
5:n:178:ARG:O	5:n:180:ALA:N	2.49	0.43
5:q:272:PHE:HE2	5:r:148:GLN:HG2	1.83	0.43
5:t:55:THR:HG23	5:t:57:GLY:H	1.82	0.43
1:w:61:GLY:HA2	1:w:64:ARG:HG3	1.99	0.43
1:4:73:LEU:O	1:4:77:LEU:N	2.49	0.43
2:B:403:GLU:O	2:G:417:ASN:ND2	2.51	0.43
2:B:1044:VAL:HG11	2:B:1096:VAL:HG13	2.00	0.43
2:C:127:ILE:HD13	2:C:127:ILE:HA	1.78	0.43
2:C:261:TYR:HA	2:C:297:SER:O	2.17	0.43
2:D:624:PHE:HE2	2:D:660:HIS:HB2	1.84	0.43
2:E:597:PHE:HA	2:E:600:THR:HG22	1.99	0.43
2:E:716:TRP:HZ2	2:E:730:VAL:HG11	1.84	0.43
2:E:1060:ASN:OD1	2:E:1079:GLN:NE2	2.51	0.43
2:F:1104:THR:HG23	2:F:1106:MET:H	1.82	0.43
2:H:662:ALA:HB1	2:I:605:ASN:ND2	2.33	0.43
2:I:1233:ALA:HA	2:I:1240:SER:OG	2.17	0.43
2:J:299:PRO:HA	2:J:352:LEU:HA	1.98	0.43
2:J:805:LYS:H	2:J:889:HIS:CE1	2.36	0.43
2:J:1102:VAL:HG11	2:J:1106:MET:HE3	2.00	0.43
2:K:394:PHE:HB3	2:K:1037:VAL:HG12	2.00	0.43
2:L:311:ASN:HB3	2:L:321:ILE:HD12	1.99	0.43
2:N:36:ARG:NH2	2:N:44:GLU:OE1	2.50	0.43
2:N:269:ILE:HA	2:N:366:THR:OG1	2.18	0.43
2:N:388:ASN:OD1	2:N:388:ASN:N	2.51	0.43
2:N:733:VAL:HB	2:N:735:ASP:O	2.17	0.43
2:N:1290:LYS:HG2	2:N:1312:GLU:HA	1.99	0.43
2:O:973:PHE:HB2	2:O:974:PRO:HD2	2.00	0.43
2:O:1165:VAL:O	2:P:213:SER:HB2	2.18	0.43
2:P:894:GLU:HG2	2:P:915:HIS:CE1	2.52	0.43
2:P:904:ARG:O	2:P:1123:ARG:NH2	2.50	0.43
5:h:233:LYS:HE3	5:h:233:LYS:HB3	1.59	0.43
5:k:34:ILE:HD11	5:k:37:ARG:HG2	2.00	0.43
4:m:216:VAL:O	4:m:220:ARG:HG3	2.18	0.43
5:q:273:VAL:HG22	5:q:276:ARG:HH21	1.83	0.43
4:s:134:CYS:HB3	4:s:154:LEU:HD21	2.00	0.43
1:3:120:HIS:O	1:3:124:ILE:HG12	2.18	0.43
1:8:274:ASP:O	1:8:277:ILE:HG22	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:97:VAL:H	2:A:112:THR:HB	1.83	0.43
2:A:703:LEU:HA	2:A:706:TYR:HD2	1.83	0.43
2:A:807:LEU:O	2:A:811:LEU:HG	2.18	0.43
2:B:638:MET:O	2:B:642:ARG:N	2.51	0.43
2:B:641:THR:O	2:G:668:PRO:HB3	2.19	0.43
2:B:1168:GLN:HG2	2:B:1298:ASP:O	2.18	0.43
2:C:397:VAL:HG13	2:C:1034:LEU:HB2	2.01	0.43
2:C:596:LEU:HD11	2:C:644:LEU:HA	2.01	0.43
2:D:440:ILE:HD13	2:D:1108:VAL:HG11	2.00	0.43
2:D:761:ASP:OD1	2:D:889:HIS:ND1	2.39	0.43
2:D:770:ASP:O	2:D:772:ARG:N	2.52	0.43
2:E:716:TRP:CE2	2:E:895:VAL:HG11	2.53	0.43
2:E:861:VAL:HG12	2:E:872:LEU:HD22	1.99	0.43
2:G:372:LEU:HD12	2:G:385:LEU:HD11	2.00	0.43
2:G:747:ARG:HD3	2:G:749:HIS:NE2	2.32	0.43
2:H:213:SER:HB3	2:M:1165:VAL:O	2.17	0.43
2:H:716:TRP:CD1	2:H:778:TRP:HZ2	2.36	0.43
2:H:1070:ASP:HA	5:r:91:LEU:HD13	2.00	0.43
2:K:128:PRO:HG3	2:L:108:THR:HB	2.01	0.43
2:L:751:VAL:HG13	1:y:249:TYR:CE1	2.53	0.43
2:L:1190:ASN:OD1	2:L:1191:ASN:N	2.50	0.43
2:M:608:GLU:CD	2:M:927:PRO:HA	2.44	0.43
2:M:805:LYS:H	2:M:889:HIS:CE1	2.33	0.43
2:N:695:ASN:H	2:N:703:LEU:HD23	1.83	0.43
2:N:1279:PHE:O	2:N:1282:ILE:HG13	2.17	0.43
2:O:556:ILE:O	2:O:1015:ILE:HG13	2.18	0.43
2:P:760:MET:HB3	2:P:889:HIS:CD2	2.43	0.43
2:P:1004:SER:O	2:P:1007:THR:HG22	2.17	0.43
4:g:92:SER:HB3	4:g:199:ARG:HG2	1.99	0.43
4:p:40:HIS:HA	4:p:43:HIS:NE2	2.33	0.43
4:p:183:GLN:HB2	4:p:207:SER:C	2.43	0.43
5:r:13:ASP:H	5:r:43:HIS:CE1	2.35	0.43
4:s:173:LEU:HB2	4:s:205:LEU:CD2	2.48	0.43
4:s:183:GLN:HG2	4:s:256:ALA:HB2	1.99	0.43
1:2:137:LYS:HB3	1:2:142:GLU:HB3	2.00	0.43
1:8:84:CYS:O	1:8:109:LEU:HD21	2.18	0.43
2:A:946:PRO:HG2	2:A:966:TYR:O	2.18	0.43
2:A:946:PRO:HG3	2:A:973:PHE:CD1	2.53	0.43
2:B:623:ALA:O	2:B:627:ILE:HG12	2.17	0.43
2:D:90:LYS:HE2	2:D:92:LEU:HD11	2.01	0.43
2:D:695:ASN:ND2	2:E:507:ARG:HG3	2.28	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1065:THR:HG21	5:l:39:HIS:NE2	2.34	0.43
2:E:216:LEU:HD13	2:E:1200:LEU:HD12	2.00	0.43
2:F:693:LEU:HB3	2:F:1022:LEU:HD11	1.99	0.43
2:G:440:ILE:HD13	2:G:1108:VAL:HB	2.00	0.43
2:H:100:VAL:HG23	2:M:173:ARG:C	2.43	0.43
2:H:455:HIS:NE2	2:H:1017:PRO:HB3	2.33	0.43
2:I:507:ARG:HD3	2:I:512:MET:HE2	1.99	0.43
2:L:294:GLU:O	2:L:357:MET:N	2.43	0.43
2:L:495:ILE:CG2	2:L:496:PRO:HD3	2.48	0.43
2:M:247:ALA:HB1	2:M:365:LYS:HD3	2.00	0.43
2:M:1046:MET:HE2	2:M:1096:VAL:HG22	2.00	0.43
2:N:1060:ASN:O	2:N:1079:GLN:NE2	2.33	0.43
2:O:199:ASN:HD22	2:O:215:ILE:HD13	1.83	0.43
2:O:1037:VAL:HG21	2:O:1262:CYS:HB2	1.99	0.43
5:i:35:PRO:HG3	5:i:50:GLN:HE22	1.84	0.43
5:i:37:ARG:HH12	5:i:85:VAL:HG11	1.83	0.43
4:p:66:LEU:HD21	4:p:251:LEU:HD21	2.00	0.43
5:q:75:ARG:NH1	5:q:77:GLU:OE2	2.51	0.43
5:r:153:MET:HE2	5:r:187:PRO:HD2	1.99	0.43
1:2:178:MET:HE1	1:2:217:TRP:HE3	1.84	0.43
2:A:611:TYR:OH	2:A:924:VAL:N	2.42	0.43
2:A:688:SER:HB3	2:A:711:HIS:NE2	2.34	0.43
2:A:960:VAL:HG12	2:A:967:HIS:CE1	2.53	0.43
2:B:435:ARG:H	2:B:1367:LEU:HD11	1.84	0.43
2:B:797:ALA:O	2:B:943:TYR:HA	2.17	0.43
2:C:128:PRO:HA	2:C:1075:TYR:O	2.19	0.43
2:C:272:VAL:HG23	2:C:368:ILE:HB	2.00	0.43
2:C:714:ARG:NH1	2:C:900:ASP:OD1	2.51	0.43
2:C:815:PRO:HA	2:C:818:LEU:HB3	2.00	0.43
2:D:695:ASN:H	2:D:703:LEU:HD23	1.83	0.43
2:F:188:PRO:HA	2:F:1286:LEU:HD21	1.99	0.43
2:F:455:HIS:CE1	2:F:1017:PRO:HG3	2.54	0.43
2:F:558:ILE:HG12	2:F:574:ARG:NH2	2.33	0.43
2:F:867:ASP:OD1	2:F:868:ALA:N	2.50	0.43
2:F:987:LEU:HD22	2:F:991:PHE:CE2	2.53	0.43
2:G:731:GLN:HG3	2:G:896:ARG:HB2	2.00	0.43
2:G:867:ASP:HB2	2:G:870:THR:O	2.19	0.43
2:H:1070:ASP:OD1	5:r:91:LEU:HB2	2.18	0.43
2:I:196:LEU:O	2:I:200:ALA:N	2.52	0.43
2:I:1039:THR:HG22	2:I:1261:PRO:HB3	2.01	0.43
2:I:1360:ILE:O	2:I:1362:LEU:N	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:522:TYR:OH	2:J:1179:VAL:HB	2.18	0.43
2:J:706:TYR:HB3	2:J:1018:VAL:HG23	2.00	0.43
2:K:607:PRO:HB3	2:K:638:MET:HE2	2.00	0.43
2:L:110:ARG:HD3	5:t:1:MET:HA	2.00	0.43
2:L:747:ARG:HB2	2:L:768:VAL:N	2.34	0.43
2:L:822:ALA:HA	3:b:72:ARG:NH1	2.27	0.43
2:L:1290:LYS:HG2	2:L:1312:GLU:HA	2.01	0.43
2:N:303:GLY:HA2	2:N:348:GLY:HA3	2.01	0.43
2:N:698:LEU:HD11	2:N:1130:TRP:CD1	2.53	0.43
2:O:606:TYR:HB3	2:O:925:THR:HG21	2.01	0.43
2:P:263:THR:HB	2:P:267:ALA:HB3	2.01	0.43
3:c:29:PRO:HG2	3:c:32:ILE:HG12	2.00	0.43
5:h:62:ARG:O	5:h:66:ARG:HG3	2.19	0.43
4:p:216:VAL:O	4:p:220:ARG:HG3	2.18	0.43
1:w:184:LEU:HD23	1:w:205:TYR:CZ	2.54	0.43
1:z:4:GLN:H	1:z:57:MET:HE2	1.82	0.43
1:6:84:CYS:O	1:6:109:LEU:HD21	2.18	0.43
1:6:159:LEU:HD22	1:6:163:GLU:HG2	2.01	0.43
2:C:151:ILE:HD12	2:D:332:LEU:HG	2.01	0.43
2:C:195:THR:O	2:C:199:ASN:ND2	2.35	0.43
2:C:451:HIS:HE2	2:C:1117:PHE:HB2	1.84	0.43
2:D:1341:ALA:HA	2:D:1364:GLN:CD	2.44	0.43
2:G:433:ARG:HD3	2:G:1104:THR:O	2.18	0.43
2:G:1001:VAL:HG13	2:G:1004:SER:H	1.84	0.43
2:H:445:ALA:HA	2:H:1110:VAL:HG21	2.01	0.43
2:J:390:ASP:OD1	2:J:1041:THR:OG1	2.32	0.43
2:J:597:PHE:HA	2:J:600:THR:HG22	2.01	0.43
2:J:1124:HIS:CE1	2:J:1126:GLU:HB3	2.54	0.43
2:K:212:ARG:HD3	2:K:1200:LEU:O	2.18	0.43
2:K:433:ARG:NH2	2:K:1166:HIS:O	2.52	0.43
2:K:495:ILE:CG2	2:K:496:PRO:HD3	2.48	0.43
2:K:597:PHE:HA	2:K:600:THR:HG22	2.00	0.43
2:L:583:ARG:HH12	2:M:999:PRO:HD3	1.82	0.43
2:L:1232:TRP:O	2:L:1238:CYS:HB2	2.19	0.43
2:M:223:MET:O	2:M:227:LEU:HB2	2.18	0.43
2:M:556:ILE:O	2:M:1015:ILE:HG13	2.18	0.43
2:M:770:ASP:O	2:M:772:ARG:N	2.51	0.43
2:N:1164:THR:O	2:O:213:SER:HB3	2.18	0.43
2:O:791:ALA:HB3	2:O:1005:VAL:HG22	2.01	0.43
2:O:896:ARG:HA	2:O:912:SER:O	2.18	0.43
2:P:725:ARG:HE	2:P:775:ASP:H	1.65	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:234:ARG:HG3	5:h:206:MET:HE1	1.99	0.43
5:i:24:LEU:HD21	5:i:81:ILE:HD11	2.01	0.43
5:i:97:THR:CG2	5:i:137:ILE:H	2.32	0.43
1:y:129:LEU:HD11	1:y:207:GLY:HA3	1.99	0.43
2:A:1191:ASN:HD21	2:A:1193:ARG:NE	2.14	0.43
2:B:4:TRP:HZ2	2:B:34:ALA:HB1	1.84	0.43
2:B:134:ALA:HB2	4:g:159:LYS:O	2.19	0.43
2:B:1122:TYR:CE2	2:B:1131:ILE:HG13	2.54	0.43
2:C:606:TYR:OH	2:C:649:HIS:ND1	2.51	0.43
2:C:801:GLY:HA3	2:C:890:VAL:HG11	2.01	0.43
2:D:387:ARG:NH2	2:D:1310:LEU:O	2.52	0.43
2:D:1327:THR:HG22	2:D:1355:VAL:HG22	2.00	0.43
2:E:269:ILE:HD13	2:E:368:ILE:HD11	2.00	0.43
2:E:451:HIS:ND1	2:E:453:VAL:HG12	2.34	0.43
2:E:710:LEU:HB2	2:E:1012:LEU:HD23	2.00	0.43
2:F:73:ALA:HA	2:F:261:TYR:CZ	2.53	0.43
2:F:400:TYR:HE1	2:F:573:LEU:HD12	1.83	0.43
2:F:535:PRO:O	2:F:555:ARG:HD2	2.18	0.43
2:F:797:ALA:HA	2:F:924:VAL:HG22	1.99	0.43
2:F:966:TYR:CD1	2:F:974:PRO:HD3	2.54	0.43
2:F:1135:ALA:HB3	2:F:1137:VAL:HG23	1.99	0.43
2:H:210:ILE:O	2:H:214:ASN:ND2	2.52	0.43
2:H:300:ALA:HB3	2:H:351:SER:HB3	1.99	0.43
2:H:616:LEU:HD21	2:H:882:ALA:HB1	2.00	0.43
2:I:611:TYR:CE2	2:I:923:VAL:HG13	2.54	0.43
2:J:619:GLY:HA3	2:J:722:HIS:HE1	1.82	0.43
2:L:254:ILE:HG23	2:N:15:ILE:HG21	2.00	0.43
2:L:1156:MET:HE3	2:L:1294:ARG:HH11	1.83	0.43
2:N:1156:MET:SD	2:N:1294:ARG:NH1	2.91	0.43
2:O:137:THR:O	2:O:141:GLU:HB2	2.18	0.43
2:P:804:LEU:HA	2:P:807:LEU:HB3	2.00	0.43
5:i:175:ILE:HG23	5:i:184:ILE:HD11	2.00	0.43
4:j:238:PRO:O	4:j:239:ARG:HB2	2.18	0.43
4:m:40:HIS:HA	4:m:43:HIS:HD2	1.80	0.43
4:p:85:TYR:HE1	4:p:168:PRO:HD3	1.83	0.43
4:p:213:GLN:NE2	5:q:281:LEU:HA	2.34	0.43
5:r:62:ARG:NH2	5:r:284:GLU:HG3	2.26	0.43
1:w:108:VAL:O	1:w:112:THR:HG23	2.18	0.43
1:x:17:VAL:HG12	1:x:21:ARG:HE	1.83	0.43
1:y:274:ASP:O	1:y:277:ILE:HG22	2.18	0.43
2:A:793:THR:HG21	2:A:797:ALA:HB2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:423:ALA:HB1	2:B:573:LEU:HD21	2.01	0.43
2:B:747:ARG:HE	2:B:768:VAL:HA	1.83	0.43
2:C:77:ALA:HA	2:C:1057:VAL:HG23	2.01	0.43
2:C:941:ARG:HD2	2:C:982:GLU:CD	2.43	0.43
2:D:639:PHE:CD2	2:D:670:LEU:HD21	2.54	0.43
2:E:1242:VAL:HG12	2:E:1248:HIS:ND1	2.33	0.43
2:F:1182:ASP:HA	2:F:1186:PHE:HD2	1.83	0.43
2:G:1193:ARG:NH1	2:G:1195:ARG:HB2	2.33	0.43
2:H:77:ALA:HB1	2:H:302:TYR:CD2	2.53	0.43
2:H:480:GLU:OE1	2:H:506:PRO:HG2	2.18	0.43
2:J:757:LEU:HD22	3:Z:62:LEU:HD23	2.00	0.43
2:J:883:VAL:HG12	3:Z:66:ARG:HB3	2.01	0.43
2:K:633:ARG:O	2:K:637:ASN:HB2	2.19	0.43
2:N:684:VAL:HA	2:N:687:ILE:HG22	2.01	0.43
2:O:75:ALA:HB2	2:O:179:PHE:CE1	2.54	0.43
2:O:275:SER:HB2	2:O:280:MET:HE3	2.00	0.43
2:P:552:CYS:SG	2:P:907:LEU:HD11	2.59	0.43
2:P:1349:THR:HA	2:P:1354:TYR:HA	2.01	0.43
3:f:34:GLU:HG3	3:f:44:LEU:HD11	2.00	0.43
4:g:235:ILE:HD12	5:i:240:ARG:NH2	2.33	0.43
5:h:88:HIS:CE1	5:h:304:PHE:HE1	2.37	0.43
5:o:88:HIS:HA	5:o:304:PHE:CD2	2.49	0.43
5:o:116:HIS:HB3	5:o:183:THR:O	2.18	0.43
5:q:58:TYR:CE1	5:q:112:PRO:HB2	2.54	0.43
1:x:158:HIS:HB2	1:x:197:VAL:HG11	1.99	0.43
1:6:235:LEU:HD23	1:6:254:LEU:HD21	1.99	0.43
1:7:252:ASN:ND2	2:O:750:GLY:O	2.50	0.43
2:A:124:PRO:HG2	5:i:39:HIS:HB3	2.01	0.43
2:A:812:PHE:HB2	3:Q:65:LEU:HD21	2.00	0.43
2:A:891:LYS:HB2	2:A:918:TYR:HB3	2.00	0.43
2:A:1124:HIS:HE1	2:A:1126:GLU:HB3	1.84	0.43
2:A:1333:MET:HG3	2:A:1337:LEU:HD23	2.00	0.43
2:B:1007:THR:O	2:B:1011:MET:HG3	2.19	0.43
2:C:22:HIS:CG	2:C:23:VAL:N	2.86	0.43
2:C:202:LEU:HD12	2:C:203:ALA:N	2.33	0.43
2:C:451:HIS:NE2	2:C:1117:PHE:HB2	2.34	0.43
2:C:534:HIS:CG	2:C:535:PRO:HD2	2.54	0.43
2:C:1187:LYS:NZ	2:C:1347:SER:HB2	2.34	0.43
2:C:1287:LEU:HD12	2:C:1288:ARG:HB2	2.01	0.43
2:C:1290:LYS:HG2	2:C:1312:GLU:HA	2.00	0.43
2:D:139:LEU:HD13	2:D:157:MET:HA	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1101:ARG:HE	2:E:202:LEU:HD13	1.84	0.43
2:E:128:PRO:HB3	2:E:1076:HIS:CE1	2.53	0.43
2:F:388:ASN:HB2	2:F:1311:ILE:HG12	2.01	0.43
2:G:1294:ARG:HB3	2:G:1301:TYR:HB2	2.01	0.43
2:H:188:PRO:HD2	2:H:1092:SER:O	2.19	0.43
2:H:231:ASN:HD21	2:H:1366:MET:HB2	1.83	0.43
2:H:234:ARG:HH22	2:H:282:ILE:HD13	1.84	0.43
2:H:556:ILE:O	2:H:1015:ILE:HG13	2.18	0.43
2:I:617:VAL:HG12	2:I:619:GLY:N	2.34	0.43
2:K:998:CYS:HB2	2:K:1004:SER:OG	2.18	0.43
2:L:264:SER:O	2:L:265:SER:OG	2.34	0.43
2:L:1193:ARG:HG2	2:L:1234:SER:HA	2.00	0.43
2:L:1224:THR:HB	2:L:1229:HIS:NE2	2.34	0.43
2:M:393:PHE:N	2:M:1038:ARG:O	2.52	0.43
2:M:566:ALA:HB1	2:M:571:HIS:NE2	2.34	0.43
2:M:624:PHE:HZ	2:M:657:ILE:HD13	1.84	0.43
2:O:600:THR:OG1	2:O:645:LEU:O	2.25	0.43
2:O:1315:CYS:O	2:O:1319:GLN:N	2.44	0.43
2:P:531:THR:HG23	2:P:539:PHE:O	2.19	0.43
3:Q:18:HIS:NE2	3:Q:48:THR:OG1	2.51	0.43
5:h:88:HIS:HE1	5:h:304:PHE:HE1	1.67	0.43
5:k:13:ASP:HB3	5:k:43:HIS:HE1	1.84	0.43
5:l:88:HIS:HA	5:l:304:PHE:HD2	1.83	0.43
4:m:66:LEU:HB2	4:m:84:LEU:HB2	2.00	0.43
1:v:22:HIS:O	1:v:26:LYS:HG3	2.19	0.43
1:0:43:GLU:C	1:0:45:ARG:H	2.27	0.43
1:1:269:GLU:O	1:1:273:GLU:HG2	2.19	0.43
1:2:70:ASN:OD1	1:2:71:PRO:HD2	2.19	0.43
1:3:84:CYS:O	1:3:109:LEU:HD21	2.19	0.43
1:7:182:LYS:HB3	1:7:184:LEU:HG	2.01	0.43
2:A:522:TYR:CE2	2:A:1180:THR:HA	2.54	0.43
2:A:1241:ASP:O	2:A:1245:ASN:HB3	2.19	0.43
2:B:698:LEU:O	2:B:706:TYR:OH	2.37	0.43
2:B:748:HIS:CD2	1:w:270:LEU:HD22	2.54	0.43
2:B:866:THR:HG21	2:B:872:LEU:HD23	1.99	0.43
2:B:1344:PHE:H	2:B:1364:GLN:HE21	1.66	0.43
2:C:22:HIS:CD2	2:C:24:LYS:H	2.36	0.43
2:C:707:VAL:HG11	2:C:1022:LEU:HD23	2.00	0.43
2:C:861:VAL:HG13	2:C:864:VAL:HB	2.01	0.43
2:D:247:ALA:O	2:D:365:LYS:NZ	2.48	0.43
2:D:947:THR:HG22	2:D:967:HIS:NE2	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1034:LEU:HD23	2:D:1173:GLU:HB3	2.01	0.43
2:F:384:PRO:HA	2:F:1309:GLN:HE22	1.83	0.43
2:F:507:ARG:HH21	2:F:511:GLU:HB3	1.83	0.43
2:F:608:GLU:HG2	2:F:927:PRO:HA	2.01	0.43
2:G:470:PRO:HB2	2:G:475:MET:HG3	1.99	0.43
2:G:1004:SER:O	2:G:1007:THR:HG22	2.19	0.43
2:H:425:PRO:HB3	2:H:1328:THR:CG2	2.49	0.43
2:H:662:ALA:HB1	2:I:605:ASN:HD21	1.84	0.43
2:H:1010:ALA:HA	2:H:1013:TYR:CE2	2.54	0.43
2:J:686:ARG:NH2	2:K:796:ARG:HH21	2.17	0.43
2:K:21:THR:N	2:O:200:ALA:HB1	2.34	0.43
2:K:433:ARG:O	2:K:1367:LEU:HD21	2.18	0.43
2:K:915:HIS:NE2	2:K:978:ALA:O	2.52	0.43
2:L:199:ASN:HA	2:L:202:LEU:HD12	2.01	0.43
2:M:372:LEU:HD12	2:M:385:LEU:HD11	2.00	0.43
2:M:399:LEU:HD13	2:M:1182:ASP:HB3	2.01	0.43
2:M:464:PHE:CD1	2:M:533:LEU:HD11	2.54	0.43
2:M:628:ARG:HA	2:M:631:VAL:HG12	2.00	0.43
2:M:651:TYR:CD2	2:M:781:GLN:HG2	2.54	0.43
2:O:946:PRO:HG3	2:O:973:PHE:CD2	2.54	0.43
2:P:234:ARG:HH22	2:P:282:ILE:HD13	1.84	0.43
2:P:1069:ARG:NH2	2:P:1074:THR:HG21	2.34	0.43
3:X:25:VAL:HA	3:X:57:LYS:HD2	2.00	0.43
4:j:190:VAL:HG21	4:j:223:PHE:CE1	2.53	0.43
5:k:296:ASP:HB3	5:k:298:LYS:HE3	2.01	0.43
4:m:135:VAL:HG11	4:m:146:LEU:HD22	2.01	0.43
5:o:203:SER:HA	5:o:274:MET:HE3	2.01	0.43
1:0:194:THR:HB	1:0:197:VAL:HG23	2.01	0.42
1:0:274:ASP:O	1:0:277:ILE:HG22	2.19	0.42
1:4:98:ASP:OD1	1:4:98:ASP:N	2.52	0.42
1:5:184:LEU:HD11	1:5:205:TYR:OH	2.19	0.42
1:6:274:ASP:O	1:6:277:ILE:HG22	2.18	0.42
2:A:387:ARG:HE	2:A:1310:LEU:HD23	1.84	0.42
2:A:1089:GLY:HA2	2:A:1300:GLN:OE1	2.19	0.42
2:A:1250:GLU:HA	2:A:1254:TYR:HE1	1.84	0.42
2:B:940:HIS:HE1	2:B:985:ASN:HD21	1.67	0.42
2:C:693:LEU:HD13	2:C:1025:LYS:HB2	2.00	0.42
2:D:1246:THR:HA	2:D:1249:ARG:HB3	2.00	0.42
2:E:1246:THR:HA	2:E:1249:ARG:HB3	2.01	0.42
2:F:322:LEU:HD22	2:F:325:PHE:HD1	1.84	0.42
2:F:361:ARG:O	2:F:362:LEU:HD12	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:751:VAL:O	2:F:752:SER:OG	2.34	0.42
2:G:322:LEU:HD22	2:G:325:PHE:HD1	1.84	0.42
2:G:451:HIS:ND1	2:G:453:VAL:HG12	2.34	0.42
2:G:451:HIS:CE1	2:G:1120:ASN:HD22	2.27	0.42
2:G:1191:ASN:HD21	2:G:1319:GLN:HB3	1.84	0.42
2:H:79:LYS:HG2	2:H:1059:ILE:HG13	2.01	0.42
2:I:600:THR:HA	2:I:644:LEU:HB2	2.01	0.42
2:I:799:GLY:H	2:I:943:TYR:HB3	1.84	0.42
2:J:53:ILE:O	2:K:322:LEU:HA	2.18	0.42
2:J:122:LYS:HG2	2:J:1082:ASN:OD1	2.19	0.42
2:J:322:LEU:HD11	2:J:325:PHE:HD1	1.83	0.42
2:J:1015:ILE:HG23	2:J:1032:PHE:HZ	1.84	0.42
2:K:626:LEU:HD13	2:K:881:LEU:HB3	2.01	0.42
2:L:332:LEU:HD12	2:O:313:VAL:HG22	2.00	0.42
2:L:392:THR:HA	2:L:1039:THR:HA	2.00	0.42
2:M:633:ARG:O	2:M:637:ASN:ND2	2.41	0.42
2:N:216:LEU:HD13	2:N:1200:LEU:HD12	2.01	0.42
2:N:668:PRO:HB2	2:O:643:GLN:HG3	2.00	0.42
2:N:1058:ILE:CG1	2:N:1082:ASN:HB2	2.48	0.42
2:O:62:GLU:OE2	2:O:173:ARG:NH1	2.44	0.42
2:O:272:VAL:HG23	2:O:368:ILE:HB	2.01	0.42
2:P:453:VAL:HA	2:P:456:GLU:HG2	2.00	0.42
2:P:478:LEU:HD22	2:P:527:ILE:HD12	2.00	0.42
2:P:515:ASP:HA	2:P:993:ARG:NH2	2.34	0.42
3:U:29:PRO:HG2	3:U:32:ILE:HG12	2.00	0.42
4:m:92:SER:HA	4:m:99:ARG:HH22	1.84	0.42
5:q:99:PRO:HG3	5:q:116:HIS:CE1	2.54	0.42
1:1:98:ASP:OD1	1:1:98:ASP:N	2.52	0.42
1:4:194:THR:HG23	1:4:197:VAL:H	1.84	0.42
2:A:230:LEU:HD12	2:A:1097:ALA:HB1	2.00	0.42
2:A:715:LEU:O	2:A:716:TRP:HD1	2.02	0.42
2:B:201:THR:HA	2:B:205:GLN:HG3	2.01	0.42
2:B:936:PRO:HB3	2:B:952:LEU:HD22	2.01	0.42
2:C:158:HIS:CE1	2:D:337:PRO:HD3	2.54	0.42
2:C:388:ASN:N	2:C:388:ASN:OD1	2.51	0.42
2:C:850:ARG:HG3	2:C:858:THR:HG21	2.01	0.42
2:D:1060:ASN:O	2:D:1079:GLN:NE2	2.42	0.42
2:E:1177:THR:HG22	2:E:1232:TRP:HZ3	1.84	0.42
2:F:534:HIS:CD2	2:F:536:PHE:HB2	2.54	0.42
2:F:540:THR:HG22	2:F:551:LEU:O	2.19	0.42
2:F:1338:LYS:HB2	2:F:1338:LYS:HE3	1.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:507:ARG:HH21	2:G:511:GLU:HB3	1.83	0.42
2:G:626:LEU:HD13	2:G:881:LEU:HB3	2.01	0.42
2:G:1138:GLU:HB3	2:G:1141:GLN:HB2	2.01	0.42
2:H:173:ARG:C	2:I:100:VAL:HG23	2.44	0.42
2:H:562:PRO:O	2:H:566:ALA:N	2.49	0.42
2:I:299:PRO:HA	2:I:352:LEU:HD23	1.99	0.42
2:I:478:LEU:HD11	2:I:509:VAL:HG13	2.01	0.42
2:I:1332:LEU:HB3	2:I:1355:VAL:HG22	2.00	0.42
2:K:936:PRO:HD3	2:K:952:LEU:HB3	2.01	0.42
2:K:1249:ARG:HG2	2:K:1254:TYR:CD1	2.53	0.42
2:L:54:PHE:HB2	2:M:91:MET:HG2	2.01	0.42
2:L:174:GLY:HA2	2:L:177:HIS:HB3	2.01	0.42
2:L:880:PHE:HZ	3:b:68:VAL:HB	1.83	0.42
2:N:433:ARG:O	2:N:1367:LEU:HD21	2.19	0.42
2:N:1057:VAL:HG12	2:N:1083:THR:HG22	2.01	0.42
2:O:182:THR:HG21	2:O:1083:THR:HG21	2.01	0.42
2:O:712:ASP:O	2:O:782:LYS:NZ	2.52	0.42
2:P:216:LEU:HD13	2:P:1200:LEU:HD12	2.00	0.42
2:P:598:LYS:HB2	2:P:792:MET:HE3	2.01	0.42
2:P:608:GLU:CD	2:P:927:PRO:HA	2.45	0.42
2:P:813:TYR:OH	3:f:27:GLU:O	2.37	0.42
4:g:136:LYS:HE2	4:g:147:THR:HG21	2.01	0.42
4:g:232:ASN:O	4:g:235:ILE:HG22	2.18	0.42
5:h:87:THR:HG21	5:h:90:LEU:HD12	2.00	0.42
5:h:125:LEU:HD23	5:h:132:LEU:HB2	2.00	0.42
5:q:148:GLN:NE2	5:r:272:PHE:HB2	2.33	0.42
4:s:247:VAL:HG11	4:s:286:PHE:HB3	2.01	0.42
2:C:1193:ARG:HG3	2:C:1266:PHE:HE1	1.84	0.42
2:D:207:LEU:HD13	2:D:212:ARG:HB3	2.01	0.42
2:E:263:THR:HB	2:E:267:ALA:HB3	2.01	0.42
2:E:397:VAL:HG12	2:E:1034:LEU:HD22	2.02	0.42
2:E:1332:LEU:HD13	2:E:1355:VAL:HG23	2.00	0.42
2:F:1069:ARG:HH21	2:F:1074:THR:HG23	1.84	0.42
2:G:698:LEU:HB3	2:G:706:TYR:HE2	1.84	0.42
2:H:628:ARG:NH1	2:H:663:ASP:OD2	2.52	0.42
2:H:1249:ARG:HG2	2:H:1254:TYR:CD1	2.55	0.42
2:I:188:PRO:HG2	2:I:193:VAL:CG2	2.49	0.42
2:I:871:PRO:HB2	2:I:872:LEU:H	1.67	0.42
2:J:534:HIS:CD2	2:J:537:PHE:HD1	2.36	0.42
2:K:211:GLN:O	2:K:215:ILE:HG12	2.18	0.42
2:K:492:ALA:O	2:K:495:ILE:HG22	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:200:ALA:HB1	2:N:21:THR:N	2.31	0.42
2:L:212:ARG:NH2	2:L:1204:PRO:HD3	2.27	0.42
2:L:1139:ARG:HD2	2:L:1140:PRO:HD2	2.00	0.42
2:M:611:TYR:CZ	2:M:923:VAL:HG13	2.54	0.42
2:N:1124:HIS:HE1	2:N:1126:GLU:HB3	1.84	0.42
2:O:1119:MET:HG3	2:O:1151:LEU:HD21	2.02	0.42
2:P:615:VAL:HG11	2:P:804:LEU:HD11	2.02	0.42
2:P:927:PRO:HD2	2:P:952:LEU:HD11	2.01	0.42
5:k:212:SER:OG	5:k:264:GLU:OE1	2.34	0.42
4:m:192:ASP:HB3	4:m:226:GLU:HG3	2.00	0.42
4:m:193:TYR:OH	4:m:244:CYS:O	2.33	0.42
1:v:97:GLY:H	1:v:141:ARG:NH2	2.16	0.42
1:v:154:ILE:O	1:v:208:ARG:NH2	2.53	0.42
1:w:120:HIS:O	1:w:124:ILE:HG12	2.19	0.42
1:y:120:HIS:O	1:y:124:ILE:HG12	2.19	0.42
1:3:206:THR:O	1:3:210:ILE:HG12	2.19	0.42
2:A:537:PHE:O	2:A:555:ARG:NH2	2.52	0.42
2:B:559:GLY:HA3	2:B:1011:MET:HB3	2.01	0.42
2:C:30:GLU:HG3	2:C:30:GLU:O	2.20	0.42
2:C:556:ILE:HG21	2:C:986:TRP:CZ3	2.48	0.42
2:C:1332:LEU:HD13	2:C:1355:VAL:HG23	2.00	0.42
2:D:64:VAL:HG11	2:D:375:VAL:HG12	2.01	0.42
2:D:710:LEU:O	2:D:782:LYS:NZ	2.53	0.42
2:E:475:MET:HE1	2:E:527:ILE:HG23	2.02	0.42
2:E:495:ILE:CG2	2:E:496:PRO:HD3	2.49	0.42
2:E:510:ASN:HB2	2:E:983:TYR:HE1	1.83	0.42
2:E:667:PRO:HG2	2:E:670:LEU:HB2	2.01	0.42
2:G:209:ARG:HA	2:G:212:ARG:HG2	2.01	0.42
2:G:399:LEU:HD23	2:G:1033:ALA:HB1	2.00	0.42
2:G:939:PHE:CG	2:G:940:HIS:N	2.87	0.42
2:H:76:HIS:HB3	2:H:1056:SER:HA	2.00	0.42
2:H:495:ILE:HB	2:H:496:PRO:HD3	2.02	0.42
2:H:537:PHE:HA	2:H:554:PRO:HA	2.02	0.42
2:I:884:GLN:O	3:Y:66:ARG:NH2	2.53	0.42
2:I:1191:ASN:ND2	2:I:1197:SER:OG	2.53	0.42
2:J:371:ASN:OD1	2:J:372:LEU:N	2.52	0.42
2:J:708:ASN:HB3	2:J:711:HIS:HD2	1.85	0.42
2:J:1044:VAL:HG23	2:J:1098:TYR:C	2.44	0.42
2:K:57:PHE:CD2	2:L:93:PHE:HE1	2.38	0.42
2:K:188:PRO:HG3	2:K:1090:TYR:CD2	2.54	0.42
2:K:748:HIS:H	2:K:756:ARG:NH1	2.17	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:820:MET:SD	3:a:72:ARG:HG3	2.60	0.42
2:L:63:TRP:CZ3	2:L:169:ASP:HB2	2.55	0.42
2:L:216:LEU:HD13	2:L:1200:LEU:HD12	2.01	0.42
2:M:275:SER:HB2	2:M:280:MET:HE3	2.00	0.42
2:M:360:ILE:O	2:M:366:THR:HA	2.19	0.42
2:N:144:GLU:O	2:N:146:THR:N	2.49	0.42
2:N:946:PRO:HG2	2:N:967:HIS:HA	2.00	0.42
2:O:124:PRO:HG2	2:P:104:ALA:HB2	2.01	0.42
2:O:633:ARG:HH22	2:O:878:GLU:HG3	1.85	0.42
2:P:562:PRO:O	2:P:566:ALA:N	2.48	0.42
2:P:588:PRO:HB2	2:P:590:TYR:CE2	2.53	0.42
5:i:206:MET:HG2	5:i:274:MET:HG3	1.99	0.42
4:m:90:ARG:HG2	4:m:118:LEU:HD23	2.01	0.42
5:r:249:GLU:OE1	5:r:249:GLU:N	2.38	0.42
5:t:276:ARG:HG3	5:u:282:ILE:HG22	2.01	0.42
1:x:249:TYR:O	1:x:253:ILE:HG12	2.19	0.42
1:z:184:LEU:HD23	1:z:186:LEU:HD12	2.00	0.42
1:0:124:ILE:HD13	1:0:127:ARG:HH21	1.85	0.42
1:5:206:THR:O	1:5:210:ILE:HG12	2.20	0.42
2:A:434:ASP:OD1	2:A:435:ARG:N	2.52	0.42
2:B:66:PHE:HD1	2:B:176:ILE:HD13	1.84	0.42
2:B:92:LEU:HD22	2:B:115:MET:HE3	2.02	0.42
2:B:746:ALA:H	2:B:767:PHE:HB3	1.84	0.42
2:C:1041:THR:H	2:C:1104:THR:HG1	1.61	0.42
2:D:59:ASN:ND2	2:E:96:GLN:O	2.51	0.42
2:D:651:TYR:HB2	2:D:784:PHE:CG	2.54	0.42
2:D:914:GLN:CD	2:D:986:TRP:HD1	2.28	0.42
2:G:1127:VAL:O	2:G:1131:ILE:HG12	2.19	0.42
2:G:1211:THR:HA	2:G:1214:ILE:HG22	2.01	0.42
2:H:1244:TYR:HA	2:H:1249:ARG:NH2	2.34	0.42
2:I:553:THR:HG21	2:I:983:TYR:O	2.19	0.42
2:J:190:TYR:HB2	2:J:1095:CYS:HB3	2.01	0.42
2:J:1290:LYS:HG3	2:J:1310:LEU:HD13	2.01	0.42
2:K:4:TRP:HZ2	2:K:34:ALA:HB1	1.84	0.42
2:L:559:GLY:HA3	2:L:1011:MET:HB3	2.01	0.42
2:M:182:THR:HA	2:M:185:ARG:HH21	1.85	0.42
2:M:687:ILE:O	2:M:1013:TYR:OH	2.37	0.42
2:M:1122:TYR:HE2	2:M:1131:ILE:HG21	1.85	0.42
2:N:448:THR:HG22	2:N:1110:VAL:HG21	2.01	0.42
2:N:1224:THR:HG22	2:N:1226:ALA:H	1.83	0.42
2:P:409:THR:HG23	2:P:410:VAL:HG22	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:535:PRO:HB3	2:P:1232:TRP:CH2	2.54	0.42
2:P:1129:ARG:HH11	2:P:1139:ARG:HH21	1.68	0.42
3:b:34:GLU:HA	3:b:40:LEU:HD23	2.02	0.42
5:i:128:GLY:C	5:i:130:TRP:H	2.27	0.42
5:k:273:VAL:HG22	5:k:276:ARG:HH22	1.85	0.42
5:l:12:PHE:CZ	5:l:81:ILE:HD11	2.55	0.42
5:n:27:LEU:HD21	5:n:134:LEU:HD11	2.00	0.42
1:y:178:MET:HE1	1:y:217:TRP:HB2	2.00	0.42
2:A:125:ILE:HB	2:A:1079:GLN:HB2	2.02	0.42
2:A:1180:THR:O	2:A:1182:ASP:N	2.45	0.42
2:B:269:ILE:HA	2:B:366:THR:HB	2.01	0.42
2:B:937:VAL:HG22	2:B:939:PHE:HB3	2.00	0.42
2:B:1344:PHE:CD1	2:B:1364:GLN:HG2	2.55	0.42
2:C:757:LEU:HA	2:C:760:MET:HE3	2.00	0.42
2:C:1212:LYS:O	2:C:1216:ASP:HB3	2.20	0.42
2:C:1360:ILE:O	2:C:1362:LEU:N	2.46	0.42
2:D:536:PHE:N	2:D:536:PHE:CD1	2.87	0.42
2:D:537:PHE:HA	2:D:554:PRO:HA	2.01	0.42
2:G:682:ARG:O	2:G:685:THR:HG22	2.18	0.42
2:G:1347:SER:HB2	2:G:1355:VAL:O	2.19	0.42
2:H:133:ALA:HB2	2:H:1071:ILE:O	2.20	0.42
2:H:779:THR:O	2:H:783:VAL:HG23	2.20	0.42
2:I:1249:ARG:HG2	2:I:1254:TYR:CE1	2.54	0.42
2:J:705:ALA:HA	2:J:711:HIS:HB2	2.00	0.42
2:J:804:LEU:HA	2:J:807:LEU:HB3	2.02	0.42
2:J:1065:THR:CG2	2:J:1076:HIS:HB2	2.50	0.42
2:K:22:HIS:CG	2:K:23:VAL:H	2.38	0.42
2:K:91:MET:HE1	2:K:1086:MET:HG2	2.01	0.42
2:K:892:VAL:HG11	2:K:979:PHE:CE1	2.55	0.42
2:L:514:GLN:HE22	2:L:562:PRO:HA	1.83	0.42
2:M:983:TYR:O	2:M:988:ARG:NH2	2.52	0.42
2:N:538:ASP:N	2:N:553:THR:O	2.50	0.42
2:N:1044:VAL:HG13	2:N:1096:VAL:HG13	2.01	0.42
2:O:125:ILE:HG12	2:O:1079:GLN:HB3	2.02	0.42
2:O:127:ILE:HA	2:O:127:ILE:HD13	1.84	0.42
2:O:607:PRO:HG3	2:O:638:MET:HE2	2.01	0.42
2:O:668:PRO:HB3	2:P:641:THR:O	2.20	0.42
3:Q:18:HIS:CD2	3:Q:44:LEU:HB3	2.55	0.42
3:V:21:VAL:HA	3:V:25:VAL:HB	2.02	0.42
4:g:68:ILE:O	4:g:82:ILE:HG13	2.19	0.42
5:i:260:SER:HB2	5:i:263:ASP:HB3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:190:ASP:O	5:k:194:LEU:N	2.52	0.42
4:m:173:LEU:HB2	4:m:205:LEU:CD2	2.50	0.42
5:n:303:ILE:HG22	5:n:304:PHE:N	2.35	0.42
5:q:148:GLN:HE21	5:r:269:SER:HA	1.85	0.42
5:u:53:ASP:HB3	5:u:56:ARG:HB2	2.01	0.42
5:u:64:LEU:O	5:u:68:MET:HG3	2.20	0.42
1:x:157:VAL:HG23	1:x:197:VAL:HG13	2.02	0.42
1:x:246:ASP:HB2	1:x:281:SER:HB2	2.02	0.42
1:4:50:THR:O	1:4:54:ASN:N	2.50	0.42
2:A:425:PRO:HG3	2:A:1354:TYR:HE1	1.84	0.42
2:A:1180:THR:C	2:A:1182:ASP:N	2.78	0.42
2:B:127:ILE:HD13	2:B:127:ILE:HA	1.85	0.42
2:B:201:THR:O	2:B:1279:PHE:HZ	2.02	0.42
2:B:313:VAL:O	2:B:316:ILE:HG13	2.20	0.42
2:C:800:LEU:HD22	2:C:952:LEU:HD21	2.02	0.42
2:C:1114:PHE:CD2	2:C:1137:VAL:HG21	2.55	0.42
2:C:1150:MET:HE3	2:C:1155:SER:HB3	2.01	0.42
2:D:1168:GLN:HG3	2:E:210:ILE:HD11	2.01	0.42
2:D:1205:TYR:HE2	2:D:1277:THR:HG23	1.85	0.42
2:E:342:ASP:HB2	2:E:345:SER:HB3	2.01	0.42
2:E:946:PRO:HG3	2:E:973:PHE:CD1	2.54	0.42
2:F:485:GLN:HE21	2:F:486:GLU:H	1.67	0.42
2:G:535:PRO:HD2	2:G:1239:LEU:HD23	2.02	0.42
2:G:552:CYS:SG	2:G:907:LEU:HD11	2.59	0.42
2:H:390:ASP:CG	2:H:1311:ILE:HG21	2.44	0.42
2:H:1004:SER:HA	2:H:1007:THR:HG22	2.01	0.42
2:I:721:THR:OG1	2:I:722:HIS:N	2.51	0.42
2:J:653:LEU:O	2:J:657:ILE:HG12	2.20	0.42
2:J:1138:GLU:HG2	2:J:1139:ARG:HG2	2.01	0.42
2:K:747:ARG:NH2	2:K:918:TYR:OH	2.53	0.42
2:K:1018:VAL:HG12	2:K:1131:ILE:HD11	2.02	0.42
2:L:562:PRO:O	2:L:566:ALA:N	2.43	0.42
2:L:642:ARG:HB3	2:L:644:LEU:HG	2.01	0.42
2:L:1124:HIS:HB3	2:L:1127:VAL:HB	2.01	0.42
2:M:259:THR:HG22	2:M:352:LEU:HD21	2.02	0.42
2:N:1257:LYS:HB3	2:N:1301:TYR:HD1	1.84	0.42
2:O:647:PHE:HD1	2:O:653:LEU:HD13	1.84	0.42
2:O:1212:LYS:HG3	2:O:1216:ASP:HB3	2.02	0.42
3:X:33:SER:HB2	3:X:36:THR:OG1	2.20	0.42
5:i:160:ARG:NH2	5:i:169:VAL:HG21	2.34	0.42
5:l:35:PRO:HB3	5:l:51:PHE:CZ	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:82:ILE:HG23	4:s:86:LEU:HD22	2.01	0.42
4:s:288:GLU:HB3	5:t:273:VAL:HG13	2.00	0.42
2:A:180:LEU:HD11	2:A:372:LEU:HD13	2.02	0.42
2:A:457:PRO:O	2:A:460:CYS:N	2.51	0.42
2:A:1298:ASP:OD1	2:A:1299:THR:N	2.53	0.42
2:B:478:LEU:HD11	2:B:509:VAL:HG13	2.02	0.42
2:B:1105:ASP:OD1	2:B:1166:HIS:HB3	2.20	0.42
2:C:24:LYS:HZ1	2:M:97:VAL:HG21	1.85	0.42
2:C:280:MET:HG3	2:C:284:MET:HE3	2.02	0.42
2:C:578:ILE:HD13	2:C:1028:ILE:HG12	2.02	0.42
2:C:1155:SER:OG	2:C:1255:ASN:OD1	2.33	0.42
2:D:524:VAL:HG23	2:D:1217:HIS:O	2.20	0.42
2:D:623:ALA:O	2:D:627:ILE:HG12	2.19	0.42
2:D:706:TYR:HB3	2:D:1018:VAL:HG21	2.00	0.42
2:D:756:ARG:HG3	2:D:767:PHE:CE1	2.55	0.42
2:E:1199:MET:HB3	2:E:1275:ASN:HB3	2.01	0.42
2:F:20:LEU:O	2:F:21:THR:OG1	2.35	0.42
2:G:963:PHE:HB3	2:G:966:TYR:CD2	2.55	0.42
2:H:1145:THR:HA	4:p:120:LEU:HD22	2.02	0.42
2:I:1176:LEU:HD13	2:I:1230:ASN:ND2	2.34	0.42
2:J:53:ILE:HG12	2:K:90:LYS:HD2	2.02	0.42
2:J:1164:THR:HG23	2:K:209:ARG:HD3	2.02	0.42
2:J:1167:GLY:HA2	2:K:210:ILE:HG12	2.02	0.42
2:J:1221:ASP:OD1	2:J:1222:ALA:N	2.53	0.42
2:K:71:LEU:HD13	2:K:274:VAL:HG11	2.02	0.42
2:K:388:ASN:OD1	2:K:388:ASN:N	2.53	0.42
2:K:884:GLN:O	3:a:66:ARG:NH2	2.53	0.42
2:M:79:LYS:HG2	2:M:1059:ILE:HG13	2.01	0.42
2:M:180:LEU:HD23	2:M:384:PRO:HG2	2.02	0.42
2:M:748:HIS:NE2	2:M:751:VAL:HB	2.34	0.42
2:N:450:CYS:SG	2:N:1131:ILE:HG23	2.59	0.42
2:N:455:HIS:CE1	2:N:1017:PRO:HB3	2.55	0.42
2:N:534:HIS:CD2	2:N:537:PHE:HD2	2.36	0.42
2:N:873:LEU:O	2:N:877:ARG:NH1	2.53	0.42
2:O:651:TYR:HA	2:O:654:VAL:HG12	2.01	0.42
2:O:970:ASP:CG	2:O:971:GLY:H	2.27	0.42
2:O:1165:VAL:HG13	2:O:1166:HIS:ND1	2.35	0.42
2:P:79:LYS:N	2:P:303:GLY:O	2.30	0.42
2:P:392:THR:HG21	2:P:1265:TYR:HE2	1.85	0.42
2:P:757:LEU:HD11	3:f:63:ASP:HB2	2.01	0.42
2:P:1147:THR:O	2:P:1151:LEU:HG	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:64:LEU:O	3:T:68:VAL:HG23	2.19	0.42
3:b:26:LEU:HB3	3:b:28:LEU:HG	2.02	0.42
3:f:17:LYS:HG2	3:f:48:THR:HG23	2.02	0.42
5:h:19:ALA:HB1	5:h:23:LYS:NZ	2.35	0.42
4:p:123:HIS:NE2	4:p:127:ARG:HB2	2.35	0.42
1:v:83:ARG:HD3	1:v:202:LYS:HB3	2.00	0.42
1:y:43:GLU:HA	1:y:51:VAL:HG22	2.02	0.42
1:z:115:ASP:OD1	1:z:116:THR:N	2.51	0.42
1:8:77:LEU:HD22	1:9:89:ARG:NH1	2.34	0.42
2:A:211:GLN:HA	2:A:214:ASN:ND2	2.34	0.42
2:B:2:GLU:HB2	2:B:4:TRP:NE1	2.34	0.42
2:B:692:GLY:O	2:C:993:ARG:NH2	2.53	0.42
2:B:947:THR:HG22	2:B:967:HIS:NE2	2.35	0.42
2:C:597:PHE:HA	2:C:600:THR:HG22	2.02	0.42
2:C:1244:TYR:HA	2:C:1249:ARG:HH21	1.85	0.42
2:D:53:ILE:HG12	2:E:90:LYS:HD2	2.00	0.42
2:D:440:ILE:HB	2:D:1108:VAL:HG11	2.01	0.42
2:D:728:GLU:OE1	2:D:729:GLY:N	2.53	0.42
2:G:287:LEU:O	2:G:291:ILE:HD12	2.20	0.42
2:G:399:LEU:HD13	2:G:1182:ASP:HB3	2.02	0.42
2:G:429:TYR:CE2	2:G:1330:LEU:HG	2.55	0.42
2:H:66:PHE:HA	2:H:176:ILE:HD11	2.02	0.42
2:I:173:ARG:HB3	2:J:100:VAL:HG23	2.01	0.42
2:I:271:GLY:HA2	2:I:1051:GLY:HA2	2.01	0.42
2:I:651:TYR:HB2	2:I:784:PHE:CG	2.55	0.42
2:J:457:PRO:HG3	2:J:537:PHE:CD2	2.55	0.42
2:K:58:CYS:HB2	2:N:12:LYS:HD2	2.02	0.42
2:K:730:VAL:HG13	2:K:895:VAL:HG13	2.02	0.42
2:M:188:PRO:HG2	2:M:193:VAL:HG22	2.02	0.42
2:M:1147:THR:HA	2:M:1150:MET:HB3	2.02	0.42
2:N:428:ALA:O	2:N:440:ILE:HG22	2.20	0.42
2:N:718:PRO:HD2	2:N:785:TYR:HB2	2.02	0.42
2:N:1306:GLY:O	2:O:106:LEU:HD13	2.18	0.42
2:O:1244:TYR:HB2	2:O:1266:PHE:HD2	1.84	0.42
2:P:443:VAL:HA	2:P:446:LEU:HD13	2.00	0.42
2:P:617:VAL:HG12	2:P:619:GLY:H	1.84	0.42
3:R:29:PRO:HG2	3:R:32:ILE:HG12	2.00	0.42
3:Y:34:GLU:HA	3:Y:40:LEU:HD23	2.01	0.42
5:h:198:LYS:HG2	5:i:222:LEU:HD13	2.01	0.42
5:h:276:ARG:O	5:h:280:ASP:N	2.52	0.42
5:k:265:ILE:HD11	5:l:145:GLU:OE2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:139:SER:HB3	4:m:145:LEU:HB3	2.02	0.42
4:p:138:VAL:HG12	4:p:140:LEU:H	1.84	0.42
4:p:166:MET:HG3	4:p:264:LEU:HD21	2.01	0.42
4:p:175:TRP:CH2	4:p:222:LYS:HB2	2.54	0.42
4:s:151:ARG:HH21	5:u:305:LYS:HE2	1.84	0.42
5:u:111:LEU:HD12	5:u:138:VAL:HG11	2.01	0.42
1:w:154:ILE:O	1:w:208:ARG:NH2	2.52	0.42
1:2:75:SER:O	1:2:79:GLU:HG2	2.20	0.42
2:A:97:VAL:HG22	2:A:1293:ILE:HD11	2.02	0.42
2:B:96:GLN:NE2	2:G:166:ASN:HB2	2.35	0.42
2:B:675:ARG:HH22	2:C:599:THR:HG23	1.84	0.42
2:B:682:ARG:HH12	2:C:796:ARG:HH12	1.66	0.42
2:B:926:ALA:CB	2:B:952:LEU:HD11	2.50	0.42
2:B:1001:VAL:O	2:B:1002:LEU:HB2	2.19	0.42
2:C:56:THR:HB	2:L:12:LYS:HG2	2.01	0.42
2:C:1154:GLY:HA3	2:C:1257:LYS:HG3	2.00	0.42
2:D:332:LEU:HD13	2:L:11:PRO:HD3	2.01	0.42
2:E:601:VAL:HG22	2:E:924:VAL:HG21	2.01	0.42
2:E:677:LEU:O	2:E:681:LEU:HG	2.20	0.42
2:G:261:TYR:HB3	2:G:269:ILE:HD12	2.01	0.42
2:I:899:LEU:O	2:I:904:ARG:NH1	2.53	0.42
2:I:1034:LEU:HG	2:I:1173:GLU:OE2	2.19	0.42
2:J:1167:GLY:HA3	2:K:210:ILE:HG23	2.02	0.42
2:K:429:TYR:HE1	2:K:439:LYS:HG3	1.84	0.42
2:K:931:ILE:HD11	2:K:952:LEU:HA	2.00	0.42
2:K:1285:TYR:CE1	2:K:1317:LEU:HB2	2.55	0.42
2:L:1127:VAL:O	2:L:1131:ILE:HG12	2.20	0.42
2:M:927:PRO:HB2	2:M:930:LEU:HB2	2.01	0.42
2:N:745:GLU:HB3	2:N:768:VAL:HG12	2.02	0.42
2:O:277:ALA:HA	2:O:371:ASN:HD21	1.85	0.42
3:Z:22:VAL:HG13	3:Z:28:LEU:HB2	2.02	0.42
3:f:15:ASP:HA	3:f:18:HIS:HD2	1.84	0.42
5:i:99:PRO:HD3	5:i:119:LEU:HD13	2.02	0.42
4:j:173:LEU:HB2	4:j:205:LEU:CD2	2.49	0.42
5:r:173:GLN:HG3	5:r:184:ILE:O	2.20	0.42
1:v:164:VAL:HA	1:v:167:ILE:HG22	2.02	0.42
1:v:274:ASP:O	1:v:277:ILE:HG22	2.19	0.42
1:w:274:ASP:O	1:w:277:ILE:HG22	2.20	0.42
1:3:227:ARG:HH21	1:3:231:ARG:HH22	1.67	0.41
1:7:274:ASP:O	1:7:277:ILE:HG22	2.21	0.41
1:9:140:VAL:HG21	1:9:158:HIS:HE2	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:748:HIS:NE2	2:A:751:VAL:HG12	2.35	0.41
2:B:188:PRO:HG2	2:B:193:VAL:CG2	2.50	0.41
2:B:1364:GLN:O	2:B:1368:PHE:HB3	2.20	0.41
2:B:1366:MET:HE2	2:B:1366:MET:HB3	1.85	0.41
2:C:936:PRO:HD3	2:C:952:LEU:HD23	2.02	0.41
2:D:114:ILE:HG13	2:L:37:ILE:HG22	2.01	0.41
2:D:802:LEU:HD23	2:D:934:SER:HA	2.01	0.41
2:E:387:ARG:HD3	2:E:1309:GLN:HG3	2.01	0.41
2:G:188:PRO:HG3	2:G:1090:TYR:CG	2.55	0.41
2:G:455:HIS:CE1	2:G:903:GLN:HA	2.55	0.41
2:G:717:PRO:HD3	2:G:782:LYS:HG2	2.02	0.41
2:G:941:ARG:HH12	2:G:987:LEU:HB3	1.85	0.41
2:G:946:PRO:HG3	2:G:973:PHE:CD1	2.55	0.41
2:G:1146:GLU:O	2:G:1148:ILE:N	2.39	0.41
2:I:440:ILE:HB	2:I:1108:VAL:CG1	2.50	0.41
2:I:443:VAL:HA	2:I:446:LEU:HD13	2.01	0.41
2:I:867:ASP:OD1	2:I:868:ALA:N	2.53	0.41
2:J:363:GLY:O	2:J:364:GLU:HG2	2.19	0.41
2:J:970:ASP:OD1	2:J:993:ARG:HA	2.20	0.41
2:K:138:TYR:CZ	2:K:152:LEU:HD23	2.55	0.41
2:K:397:VAL:HG13	2:K:1034:LEU:HB2	2.02	0.41
2:K:635:ILE:O	2:K:639:PHE:N	2.52	0.41
2:K:677:LEU:O	2:K:681:LEU:HG	2.20	0.41
2:K:1001:VAL:C	2:K:1003:HIS:H	2.27	0.41
2:L:534:HIS:HD2	2:L:537:PHE:CD1	2.34	0.41
2:L:628:ARG:HA	2:L:631:VAL:HG12	2.01	0.41
2:M:322:LEU:HD11	2:M:325:PHE:HD1	1.85	0.41
2:M:1193:ARG:NH2	2:M:1214:ILE:HG13	2.35	0.41
2:N:431:LEU:HD23	2:N:436:ALA:H	1.83	0.41
2:N:783:VAL:O	2:N:787:CYS:HB2	2.20	0.41
2:N:1221:ASP:OD1	2:N:1222:ALA:N	2.52	0.41
2:O:291:ILE:HG12	2:O:360:ILE:HG22	2.02	0.41
2:O:782:LYS:O	2:O:786:LEU:HB3	2.20	0.41
2:O:1101:ARG:NH1	2:P:214:ASN:HD22	2.17	0.41
2:P:797:ALA:O	2:P:943:TYR:HA	2.19	0.41
2:P:871:PRO:HB2	2:P:872:LEU:H	1.66	0.41
4:j:82:ILE:HG22	4:j:83:SER:O	2.20	0.41
5:l:125:LEU:O	5:l:131:GLU:HA	2.20	0.41
4:p:212:TRP:CZ2	4:p:216:VAL:HG11	2.54	0.41
4:p:248:ILE:HG13	4:p:289:PHE:CE1	2.55	0.41
5:r:74:ARG:HH11	5:r:84:HIS:HB3	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r:107:ALA:O	5:r:140:MET:N	2.53	0.41
1:v:133:VAL:HG21	1:v:154:ILE:HG23	2.01	0.41
1:4:191:HIS:HA	5:q:255:ARG:HG3	2.01	0.41
1:6:140:VAL:HB	1:6:142:GLU:HG3	2.02	0.41
2:A:196:LEU:HD11	2:A:1289:ALA:HA	2.02	0.41
2:A:391:LEU:HA	2:A:1314:PRO:HG2	2.02	0.41
2:B:160:VAL:O	2:B:164:LEU:HG	2.20	0.41
2:B:164:LEU:HD21	2:B:321:ILE:HD11	2.01	0.41
2:B:190:TYR:HB2	2:B:1095:CYS:HB3	2.02	0.41
2:B:377:LYS:C	2:B:379:THR:H	2.28	0.41
2:B:435:ARG:N	2:B:1367:LEU:HD11	2.35	0.41
2:B:1184:ASN:O	2:B:1188:ILE:HG22	2.20	0.41
2:C:188:PRO:HD2	2:C:1092:SER:O	2.20	0.41
2:C:715:LEU:HD23	2:C:782:LYS:HD2	2.02	0.41
2:D:769:ASP:OD1	2:D:770:ASP:N	2.51	0.41
2:E:295:THR:HA	2:E:356:SER:HA	2.01	0.41
2:E:1193:ARG:O	2:E:1230:ASN:HB2	2.19	0.41
2:F:534:HIS:ND1	2:F:535:PRO:HD2	2.36	0.41
2:F:917:LEU:HD21	2:F:920:GLY:HA3	2.01	0.41
2:F:1130:TRP:CE3	2:F:1131:ILE:HD13	2.55	0.41
2:G:469:PRO:HA	2:G:470:PRO:HD3	1.96	0.41
2:G:1195:ARG:NH1	2:G:1227:ALA:O	2.54	0.41
2:G:1246:THR:HA	2:G:1249:ARG:HB3	2.01	0.41
2:H:457:PRO:HD3	2:H:537:PHE:CZ	2.55	0.41
2:I:399:LEU:HD11	2:I:1186:PHE:CE2	2.55	0.41
2:J:394:PHE:CD1	2:J:1321:ALA:HB3	2.54	0.41
2:J:1112:ASP:OD1	2:J:1112:ASP:N	2.52	0.41
2:J:1196:ALA:HB3	2:J:1222:ALA:HB3	2.01	0.41
2:K:78:ILE:HB	2:K:1058:ILE:HG22	2.01	0.41
2:K:537:PHE:HA	2:K:554:PRO:HA	2.01	0.41
2:M:371:ASN:OD1	2:M:372:LEU:N	2.53	0.41
2:M:478:LEU:CD1	2:M:512:MET:HE2	2.49	0.41
2:N:427:THR:HG22	2:N:441:ASP:OD1	2.19	0.41
2:N:1132:ARG:NH2	2:N:1140:PRO:HD2	2.35	0.41
2:O:630:PHE:HA	2:O:633:ARG:HH21	1.84	0.41
2:O:905:GLN:OE1	2:O:1123:ARG:N	2.46	0.41
2:P:651:TYR:HA	2:P:654:VAL:HG12	2.02	0.41
2:P:714:ARG:CZ	2:P:900:ASP:HB3	2.50	0.41
2:P:1238:CYS:SG	2:P:1240:SER:OG	2.73	0.41
3:U:18:HIS:ND1	3:U:44:LEU:HB3	2.35	0.41
3:X:68:VAL:O	3:X:71:SER:OG	2.32	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:133:GLY:HA3	4:p:149:VAL:O	2.19	0.41
5:q:58:TYR:HE1	5:q:112:PRO:HB2	1.85	0.41
5:r:227:SER:OG	5:r:228:SER:N	2.50	0.41
5:t:149:ARG:O	5:t:153:MET:HG3	2.20	0.41
1:z:43:GLU:O	1:z:45:ARG:N	2.44	0.41
1:z:120:HIS:O	1:z:124:ILE:HG12	2.20	0.41
1:3:274:ASP:O	1:3:277:ILE:HG22	2.20	0.41
2:A:1239:LEU:HA	2:A:1242:VAL:HG22	2.02	0.41
2:B:272:VAL:HA	2:B:368:ILE:HB	2.02	0.41
2:B:624:PHE:HZ	2:B:653:LEU:HG	1.85	0.41
2:C:15:ILE:O	2:L:60:ARG:HG2	2.20	0.41
2:D:1285:TYR:CG	2:D:1317:LEU:HD12	2.55	0.41
2:E:633:ARG:HH22	2:E:878:GLU:HG3	1.84	0.41
2:E:1047:LEU:HD23	2:E:1097:ALA:HB2	2.01	0.41
2:F:208:ASN:HB2	2:F:211:GLN:HG3	2.02	0.41
2:F:708:ASN:HB3	2:F:711:HIS:HD2	1.84	0.41
2:F:733:VAL:HG12	2:F:738:PRO:HA	2.01	0.41
2:H:73:ALA:HA	2:H:261:TYR:CZ	2.56	0.41
2:H:1075:TYR:OH	4:p:19:GLU:OE2	2.33	0.41
2:I:264:SER:OG	2:I:294:GLU:OE2	2.24	0.41
2:K:143:PHE:HB3	2:K:144:GLU:OE1	2.19	0.41
2:K:947:THR:HG23	2:K:969:HIS:HE1	1.85	0.41
2:K:1240:SER:HB2	2:K:1266:PHE:HE2	1.85	0.41
2:L:607:PRO:HG3	2:L:638:MET:HE2	2.03	0.41
2:L:867:ASP:OD1	2:L:868:ALA:N	2.52	0.41
2:L:1035:THR:HG21	2:L:1176:LEU:HD12	2.02	0.41
2:L:1182:ASP:HA	2:L:1186:PHE:HD2	1.84	0.41
2:M:182:THR:HG21	2:M:1083:THR:HG21	2.01	0.41
2:M:192:VAL:HA	2:M:219:PHE:CE1	2.55	0.41
2:M:1026:ALA:HB3	2:M:1028:ILE:HG12	2.02	0.41
2:M:1059:ILE:HB	2:M:1079:GLN:HE21	1.85	0.41
2:O:694:ASN:ND2	2:O:704:SER:HB3	2.31	0.41
2:P:255:LEU:HD21	2:P:1086:MET:SD	2.60	0.41
2:P:973:PHE:HB2	2:P:974:PRO:HD2	2.02	0.41
2:P:1053:SER:O	2:P:1086:MET:HE3	2.20	0.41
5:i:140:MET:HE2	5:i:144:LEU:HD11	2.02	0.41
4:j:166:MET:HE3	4:j:264:LEU:HD21	2.03	0.41
4:m:33:ILE:H	4:m:33:ILE:HD12	1.85	0.41
5:n:126:THR:HB	5:n:131:GLU:HG2	2.02	0.41
5:n:220:ARG:HH12	5:n:241:LEU:C	2.28	0.41
5:n:291:CYS:SG	5:n:301:THR:OG1	2.62	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:175:TRP:CZ3	4:s:222:LYS:HD3	2.55	0.41
5:u:206:MET:O	5:u:210:LEU:N	2.33	0.41
1:1:55:GLU:HB3	1:1:59:TRP:HD1	1.85	0.41
1:2:55:GLU:HB3	1:2:59:TRP:CD1	2.54	0.41
1:8:249:TYR:OH	2:K:751:VAL:HG13	2.20	0.41
2:A:1190:ASN:O	2:A:1320:GLU:HB3	2.20	0.41
2:B:247:ALA:HA	2:B:1049:TYR:CE2	2.55	0.41
2:B:618:HIS:NE2	2:B:887:GLY:HA3	2.34	0.41
2:B:1235:GLN:HG3	2:B:1236:ALA:O	2.21	0.41
2:E:194:GLN:HA	2:E:197:VAL:HG12	2.02	0.41
2:E:253:SER:HB3	2:E:1054:CYS:HA	2.02	0.41
2:E:1103:ARG:HG2	2:E:1168:GLN:OE1	2.21	0.41
2:I:1001:VAL:C	2:I:1003:HIS:H	2.27	0.41
2:J:19:PHE:CZ	2:J:23:VAL:HG12	2.55	0.41
2:J:443:VAL:HA	2:J:446:LEU:HD13	2.01	0.41
2:J:514:GLN:HB3	2:J:993:ARG:HD2	2.02	0.41
2:J:628:ARG:HA	2:J:631:VAL:HG12	2.02	0.41
2:J:1182:ASP:HA	2:J:1186:PHE:HD2	1.86	0.41
2:J:1264:GLN:OE1	2:J:1313:ASN:ND2	2.54	0.41
2:K:716:TRP:CZ2	2:K:730:VAL:HG11	2.49	0.41
2:K:728:GLU:OE1	2:K:729:GLY:N	2.54	0.41
2:K:1338:LYS:HB2	2:K:1338:LYS:HE3	1.86	0.41
2:L:475:MET:HE2	2:L:530:TYR:HE1	1.85	0.41
2:L:716:TRP:CE2	2:L:895:VAL:HG11	2.55	0.41
2:L:1360:ILE:O	2:L:1362:LEU:N	2.48	0.41
2:M:263:THR:OG1	2:M:269:ILE:HG13	2.20	0.41
2:M:940:HIS:CE1	2:M:987:LEU:HD12	2.55	0.41
2:M:946:PRO:HG3	2:M:973:PHE:HD1	1.86	0.41
2:N:94:HIS:NE2	2:N:113:THR:HG23	2.35	0.41
2:N:535:PRO:HD2	2:N:1239:LEU:HD23	2.02	0.41
2:N:733:VAL:HG23	2:N:894:GLU:HB2	2.02	0.41
2:O:716:TRP:CE2	2:O:895:VAL:HG11	2.55	0.41
2:P:1244:TYR:HB2	2:P:1266:PHE:HD2	1.85	0.41
3:e:43:MET:HE2	3:e:67:MET:HG3	2.02	0.41
4:g:262:SER:OG	4:g:263:PHE:N	2.53	0.41
4:m:46:LEU:HD13	5:o:91:LEU:HD23	2.02	0.41
4:p:82:ILE:HG22	4:p:83:SER:O	2.20	0.41
4:s:46:LEU:HD22	5:u:91:LEU:HD23	2.03	0.41
1:y:246:ASP:HB2	1:y:278:TYR:HA	2.02	0.41
1:1:94:TYR:CD1	1:1:95:PRO:HD2	2.56	0.41
1:5:16:LEU:HD13	1:5:58:LEU:HD21	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:119:TYR:HD2	2:A:1299:THR:HG21	1.85	0.41
2:A:400:TYR:H	2:A:1178:PRO:HB2	1.84	0.41
2:A:751:VAL:HG22	2:A:752:SER:H	1.85	0.41
2:B:74:ALA:HB1	2:B:1054:CYS:SG	2.61	0.41
2:B:757:LEU:HD21	3:R:66:ARG:HH11	1.85	0.41
2:B:1348:GLU:O	2:B:1355:VAL:N	2.53	0.41
2:C:207:LEU:HD13	2:C:212:ARG:HB3	2.01	0.41
2:C:451:HIS:CD2	2:C:1114:PHE:HA	2.55	0.41
2:C:1174:LEU:HD11	2:C:1262:CYS:SG	2.60	0.41
2:C:1217:HIS:NE2	2:C:1235:GLN:HG2	2.35	0.41
2:E:522:TYR:HE1	2:E:1231:PRO:HD3	1.85	0.41
2:E:562:PRO:O	2:E:566:ALA:N	2.53	0.41
2:E:1247:ARG:HG3	2:E:1269:GLU:HG3	2.03	0.41
2:F:372:LEU:HD12	2:F:385:LEU:HD11	2.02	0.41
2:F:651:TYR:HA	2:F:654:VAL:HG12	2.03	0.41
2:F:756:ARG:HG3	2:F:767:PHE:CE2	2.55	0.41
2:G:193:VAL:HG12	2:G:249:ALA:HB1	2.03	0.41
2:G:455:HIS:CD2	2:G:1017:PRO:HD3	2.54	0.41
2:G:1124:HIS:CE1	2:G:1126:GLU:HB3	2.55	0.41
2:G:1234:SER:OG	2:G:1235:GLN:N	2.53	0.41
2:H:651:TYR:HA	2:H:654:VAL:HG12	2.03	0.41
2:H:927:PRO:HD2	2:H:952:LEU:HD11	2.02	0.41
2:H:1364:GLN:O	2:H:1368:PHE:HB3	2.21	0.41
2:I:611:TYR:CZ	2:I:923:VAL:HG13	2.55	0.41
2:J:537:PHE:HA	2:J:554:PRO:HA	2.02	0.41
2:J:616:LEU:HB3	2:J:882:ALA:HB1	2.02	0.41
2:K:1367:LEU:HD23	2:K:1367:LEU:HA	1.90	0.41
2:M:488:MET:HE1	2:M:978:ALA:HB1	2.03	0.41
2:N:651:TYR:CD2	2:N:781:GLN:HG2	2.54	0.41
3:U:34:GLU:HG2	3:U:41:ALA:HB2	2.02	0.41
3:a:25:VAL:HA	3:a:57:LYS:HD2	2.03	0.41
4:g:220:ARG:HA	4:g:227:ARG:HH21	1.84	0.41
5:i:206:MET:O	5:i:210:LEU:HG	2.21	0.41
4:j:120:LEU:HD12	4:j:121:GLY:N	2.36	0.41
5:l:71:THR:CG2	5:l:83:LEU:HB3	2.50	0.41
4:m:211:HIS:CE1	5:n:285:GLN:HB2	2.55	0.41
1:3:87:VAL:HG22	1:3:199:ALA:HB1	2.03	0.41
1:5:18:ASN:OD1	1:5:21:ARG:NH2	2.54	0.41
1:5:79:GLU:OE1	5:r:247:VAL:HG11	2.20	0.41
1:6:105:HIS:O	1:6:131:SER:OG	2.39	0.41
2:A:517:VAL:O	2:A:521:PHE:N	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1054:CYS:O	2:B:1086:MET:HB2	2.21	0.41
2:B:1285:TYR:CD2	2:B:1317:LEU:HD12	2.56	0.41
2:C:293:LYS:HG2	2:C:358:ASP:OD1	2.21	0.41
2:C:1195:ARG:HD3	2:C:1234:SER:OG	2.20	0.41
2:D:99:ARG:NH1	2:D:111:GLN:HG2	2.35	0.41
2:D:147:ILE:HG21	2:N:309:PRO:HA	2.02	0.41
2:D:473:PRO:HA	2:D:476:GLN:HB3	2.01	0.41
2:D:1244:TYR:HB2	2:D:1266:PHE:CD2	2.50	0.41
2:E:184:LEU:HD23	2:E:1048:LEU:HD13	2.02	0.41
2:E:1239:LEU:HD12	2:E:1240:SER:N	2.35	0.41
2:F:1166:HIS:CD2	2:G:1223:GLN:HA	2.54	0.41
2:G:62:GLU:HG2	2:G:62:GLU:O	2.21	0.41
2:G:715:LEU:HB2	2:G:986:TRP:CZ3	2.54	0.41
2:G:1059:ILE:HG22	2:G:1081:ILE:HG12	2.02	0.41
2:I:1039:THR:HG21	2:I:1259:TYR:HE2	1.85	0.41
2:J:706:TYR:O	2:J:1019:SER:HB2	2.21	0.41
2:K:64:VAL:HG12	2:K:374:ARG:HE	1.85	0.41
2:K:556:ILE:O	2:K:1015:ILE:HG13	2.19	0.41
2:K:1285:TYR:HA	2:K:1289:ALA:HB3	2.02	0.41
2:L:19:PHE:CZ	2:L:23:VAL:HB	2.56	0.41
2:M:399:LEU:HD11	2:M:1186:PHE:CE2	2.55	0.41
2:M:615:VAL:HG21	2:M:802:LEU:HD12	2.01	0.41
2:M:651:TYR:HB2	2:M:784:PHE:CD2	2.56	0.41
2:O:453:VAL:HA	2:O:456:GLU:HG2	2.02	0.41
2:O:710:LEU:HB2	2:O:1012:LEU:HD23	2.02	0.41
2:O:1133:HIS:ND1	2:P:474:ALA:HB1	2.35	0.41
2:P:394:PHE:HB3	2:P:1037:VAL:HG12	2.02	0.41
2:P:812:PHE:O	2:P:814:ARG:HG3	2.20	0.41
4:g:60:GLU:OE1	4:g:83:SER:OG	2.36	0.41
5:h:138:VAL:HG23	5:h:143:ALA:HB2	2.01	0.41
4:j:93:ASN:ND2	4:j:202:ILE:O	2.35	0.41
4:j:194:ASP:O	4:j:233:ARG:NH1	2.53	0.41
4:p:65:ALA:H	4:p:135:VAL:H	1.68	0.41
5:r:58:TYR:OH	5:r:112:PRO:HD2	2.21	0.41
1:w:252:ASN:HA	1:w:255:LYS:HG3	2.02	0.41
1:y:66:LEU:HB3	1:y:217:TRP:CH2	2.56	0.41
1:1:70:ASN:OD1	1:1:71:PRO:HD2	2.20	0.41
1:1:173:GLY:HA2	1:1:176:ARG:HB3	2.02	0.41
1:3:183:PRO:HB2	1:3:184:LEU:H	1.61	0.41
1:4:28:ASP:OD1	1:4:176:ARG:HG3	2.20	0.41
1:6:19:PHE:HA	1:6:26:LYS:HE3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:177:HIS:O	2:A:181:GLN:HG2	2.21	0.41
2:A:611:TYR:CZ	2:A:923:VAL:HA	2.56	0.41
2:A:1039:THR:OG1	2:A:1261:PRO:HB3	2.20	0.41
2:A:1153:PHE:HZ	5:i:63:GLY:HA3	1.84	0.41
2:B:185:ARG:O	2:B:1286:LEU:HD13	2.20	0.41
2:B:536:PHE:CE1	2:B:1032:PHE:HZ	2.39	0.41
2:B:896:ARG:HB2	2:B:911:ILE:HG21	2.02	0.41
2:B:1173:GLU:O	2:B:1244:TYR:OH	2.38	0.41
2:C:455:HIS:CE1	2:C:1017:PRO:HG3	2.56	0.41
2:D:918:TYR:C	2:D:920:GLY:H	2.28	0.41
2:E:415:LYS:HD2	2:F:411:GLU:HG3	2.03	0.41
2:E:1038:ARG:HD2	2:E:1106:MET:HA	2.02	0.41
2:F:445:ALA:O	2:F:448:THR:HG22	2.20	0.41
2:G:452:PRO:HG3	2:G:1122:TYR:CE2	2.56	0.41
2:G:774:THR:HG23	2:G:777:GLU:H	1.85	0.41
2:G:803:ASN:HA	2:G:889:HIS:HD2	1.85	0.41
2:G:1293:ILE:HG22	2:G:1311:ILE:HD13	2.03	0.41
2:H:382:LYS:NZ	2:I:202:LEU:HD23	2.35	0.41
2:H:475:MET:SD	2:H:1218:ARG:NH2	2.93	0.41
2:H:537:PHE:HB3	2:H:552:CYS:SG	2.61	0.41
2:H:616:LEU:CD2	2:H:882:ALA:HB1	2.51	0.41
2:H:1165:VAL:HG23	2:I:216:LEU:HD23	2.02	0.41
2:H:1232:TRP:HB3	2:H:1239:LEU:HD21	2.02	0.41
2:I:50:PHE:HB2	2:J:321:ILE:HG12	2.03	0.41
2:I:451:HIS:ND1	2:I:453:VAL:HG12	2.36	0.41
2:L:77:ALA:HB2	2:L:1057:VAL:HG23	2.02	0.41
2:L:699:ALA:H	2:L:1126:GLU:HG2	1.84	0.41
2:M:527:ILE:HG22	2:M:1218:ARG:HH22	1.85	0.41
2:M:682:ARG:HA	2:M:685:THR:HG22	2.02	0.41
2:M:723:LEU:HG	2:M:768:VAL:HG21	2.03	0.41
2:N:73:ALA:HA	2:N:261:TYR:CZ	2.56	0.41
2:N:280:MET:O	2:N:284:MET:HG2	2.21	0.41
2:N:312:ALA:O	2:N:316:ILE:HG13	2.21	0.41
2:O:188:PRO:HB3	2:O:1282:ILE:HD13	2.01	0.41
2:O:229:LEU:HD21	2:O:242:PHE:CE2	2.56	0.41
2:O:756:ARG:NH2	3:e:66:ARG:HH12	2.17	0.41
2:O:760:MET:O	2:O:761:ASP:HB2	2.21	0.41
5:i:145:GLU:O	5:i:149:ARG:HG2	2.21	0.41
4:j:69:ARG:HD2	4:j:79:HIS:HB3	2.02	0.41
5:k:107:ALA:HB3	5:k:140:MET:HB2	2.02	0.41
5:k:238:LEU:HD12	5:k:239:MET:N	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o:106:ASP:O	5:o:289:THR:HA	2.20	0.41
5:o:107:ALA:O	5:o:140:MET:HB2	2.21	0.41
4:p:175:TRP:NE1	4:p:205:LEU:HD13	2.35	0.41
5:q:48:LEU:HD21	5:q:61:LEU:HD22	2.01	0.41
5:q:193:LEU:O	5:q:197:MET:N	2.54	0.41
5:t:98:GLY:HA2	5:t:99:PRO:HD3	1.91	0.41
5:t:156:PHE:CE2	5:t:160:ARG:HG3	2.56	0.41
1:3:270:LEU:HD21	2:M:748:HIS:CE1	2.56	0.41
2:A:34:ALA:O	2:A:38:TYR:N	2.49	0.41
2:A:60:ARG:HE	2:A:63:TRP:NE1	2.19	0.41
2:A:638:MET:HE1	2:A:642:ARG:NH1	2.35	0.41
2:B:691:PRO:HB2	2:B:695:ASN:HB3	2.02	0.41
2:B:1185:TYR:O	2:B:1190:ASN:ND2	2.53	0.41
2:B:1206:ASP:O	2:B:1275:ASN:ND2	2.52	0.41
2:C:58:CYS:O	2:L:14:GLY:HA2	2.21	0.41
2:C:138:TYR:CD2	2:C:152:LEU:HD21	2.55	0.41
2:C:448:THR:HG21	2:C:1173:GLU:HB3	2.03	0.41
2:C:451:HIS:CE1	2:C:1117:PHE:HB2	2.55	0.41
2:C:514:GLN:NE2	2:C:563:ASP:OD2	2.46	0.41
2:C:760:MET:HB3	2:C:888:GLU:OE1	2.21	0.41
2:D:973:PHE:HB2	2:D:974:PRO:HD2	2.03	0.41
2:D:1176:LEU:HD23	2:D:1230:ASN:HD22	1.85	0.41
2:F:631:VAL:HG23	2:F:647:PHE:CZ	2.56	0.41
2:F:715:LEU:C	2:F:716:TRP:HD1	2.29	0.41
2:G:526:ASN:OD1	2:G:527:ILE:N	2.54	0.41
2:G:562:PRO:O	2:G:566:ALA:N	2.54	0.41
2:H:128:PRO:HB3	2:H:1076:HIS:CE1	2.55	0.41
2:H:688:SER:HB3	2:H:708:ASN:ND2	2.36	0.41
2:I:1367:LEU:HD23	2:I:1367:LEU:HA	1.37	0.41
2:K:15:ILE:HG22	2:K:16:PRO:O	2.21	0.41
2:K:535:PRO:HD2	2:K:1239:LEU:HD23	2.02	0.41
2:L:189:PRO:HG3	2:L:1285:TYR:CE2	2.56	0.41
2:L:601:VAL:HG23	2:L:924:VAL:HG21	2.03	0.41
2:L:1366:MET:HE2	2:L:1366:MET:HB3	1.94	0.41
2:M:512:MET:CE	2:M:527:ILE:HD11	2.50	0.41
2:N:605:ASN:HB3	2:N:642:ARG:HE	1.85	0.41
2:N:716:TRP:CE2	2:N:895:VAL:HG11	2.56	0.41
2:O:433:ARG:NH1	2:O:1166:HIS:HA	2.35	0.41
2:O:457:PRO:HD3	2:O:537:PHE:CZ	2.55	0.41
2:O:755:PRO:HD3	3:e:50:MET:HE1	2.03	0.41
2:O:820:MET:SD	3:e:72:ARG:HB2	2.60	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1033:ALA:HB2	2:O:1178:PRO:HA	2.03	0.41
2:O:1176:LEU:HD23	2:O:1176:LEU:HA	1.93	0.41
2:P:451:HIS:CE1	2:P:1117:PHE:HB2	2.55	0.41
2:P:706:TYR:O	2:P:1019:SER:HB2	2.20	0.41
5:i:227:SER:OG	5:i:228:SER:N	2.54	0.41
5:l:25:THR:O	5:l:28:VAL:HG23	2.21	0.41
4:p:154:LEU:HB3	4:p:163:PHE:HB2	2.03	0.41
5:q:77:GLU:HG3	5:q:80:GLN:HB2	2.02	0.41
5:q:161:SER:HB2	5:q:164:GLU:HG2	2.03	0.41
5:q:193:LEU:O	5:q:197:MET:HG2	2.20	0.41
4:s:72:THR:HG22	4:s:74:CYS:H	1.85	0.41
1:2:184:LEU:HD13	1:2:205:TYR:OH	2.20	0.41
1:8:71:PRO:HG3	1:8:217:TRP:CE3	2.55	0.41
1:9:28:ASP:O	1:9:34:HIS:HE1	2.03	0.41
2:A:125:ILE:N	2:A:1079:GLN:O	2.45	0.41
2:A:139:LEU:HD21	2:A:160:VAL:HG11	2.02	0.41
2:A:746:ALA:O	2:A:767:PHE:HA	2.21	0.41
2:A:809:VAL:HG22	3:Q:62:LEU:HB2	2.03	0.41
2:A:919:ASN:OD1	2:A:920:GLY:N	2.54	0.41
2:A:1322:LEU:HD21	2:A:1360:ILE:HB	2.02	0.41
2:B:105:GLY:H	2:G:1307:THR:HG21	1.86	0.41
2:B:556:ILE:O	2:B:1015:ILE:HG12	2.21	0.41
2:B:637:ASN:ND2	2:B:863:ASP:O	2.54	0.41
2:B:680:VAL:O	2:B:684:VAL:HG23	2.20	0.41
2:B:724:PRO:HA	2:B:773:ALA:HB3	2.03	0.41
2:B:729:GLY:O	2:B:898:PRO:HD2	2.21	0.41
2:B:731:GLN:HB2	2:B:896:ARG:HG3	2.03	0.41
2:B:940:HIS:HD2	2:B:942:PHE:HB2	1.86	0.41
2:C:241:LYS:HA	2:C:244:THR:HG22	2.03	0.41
2:C:892:VAL:HG11	2:C:979:PHE:HE1	1.84	0.41
2:C:940:HIS:CD2	2:C:942:PHE:H	2.39	0.41
2:C:1149:SER:CB	4:m:117:TRP:HE1	2.33	0.41
2:C:1156:MET:SD	2:C:1294:ARG:NH1	2.91	0.41
2:D:232:ARG:HH12	2:D:1361:PRO:HD2	1.85	0.41
2:D:284:MET:HA	2:D:291:ILE:HD12	2.02	0.41
2:D:545:ASN:OD1	2:D:545:ASN:N	2.54	0.41
2:D:890:VAL:HG23	2:D:918:TYR:O	2.20	0.41
2:D:1287:LEU:HA	2:D:1290:LYS:HZ1	1.85	0.41
2:D:1348:GLU:H	2:D:1355:VAL:HB	1.86	0.41
2:E:940:HIS:NE2	2:E:987:LEU:HD12	2.36	0.41
2:E:1196:ALA:HB3	2:E:1223:GLN:HG3	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1228:THR:HG22	2:E:1230:ASN:H	1.84	0.41
2:F:192:VAL:HA	2:F:219:PHE:HE1	1.85	0.41
2:F:388:ASN:ND2	2:F:1043:GLU:OE1	2.54	0.41
2:F:440:ILE:HB	2:F:1108:VAL:HG13	2.02	0.41
2:F:555:ARG:NH2	2:F:561:LEU:HD23	2.36	0.41
2:F:702:PRO:HG3	2:G:964:PRO:CG	2.50	0.41
2:F:896:ARG:HB3	2:F:911:ILE:HG21	2.02	0.41
2:F:1103:ARG:NH2	2:F:1295:GLY:HA3	2.36	0.41
2:G:122:LYS:HA	2:G:1082:ASN:OD1	2.20	0.41
2:G:779:THR:O	2:G:783:VAL:HG23	2.20	0.41
2:G:798:CYS:HB3	2:G:948:ILE:HG21	2.02	0.41
2:G:1105:ASP:HB2	2:G:1167:GLY:O	2.21	0.41
2:G:1267:ASN:HB3	2:G:1270:GLU:OE1	2.20	0.41
2:H:189:PRO:HD3	2:H:1286:LEU:HD21	2.03	0.41
2:H:446:LEU:HD21	2:H:1021:VAL:HG13	2.03	0.41
2:H:534:HIS:CD2	2:H:536:PHE:HB2	2.56	0.41
2:H:657:ILE:HD12	2:H:661:LEU:HD22	2.02	0.41
2:H:698:LEU:HD11	2:H:1130:TRP:CD1	2.55	0.41
2:H:747:ARG:HG2	2:H:748:HIS:N	2.36	0.41
2:H:968:ARG:NH2	2:M:694:ASN:O	2.54	0.41
2:I:647:PHE:HD1	2:I:653:LEU:HD13	1.85	0.41
2:I:1265:TYR:OH	2:I:1320:GLU:O	2.32	0.41
2:J:51:GLU:HB2	5:t:18:ILE:HD11	2.03	0.41
2:J:601:VAL:HG22	2:J:924:VAL:HG21	2.02	0.41
2:J:800:LEU:HD22	2:J:952:LEU:HD21	2.01	0.41
2:J:1066:LYS:HG3	2:J:1075:TYR:CE1	2.54	0.41
2:J:1295:GLY:O	2:K:210:ILE:HD12	2.21	0.41
2:J:1366:MET:HE2	2:J:1366:MET:HB3	1.98	0.41
2:K:651:TYR:HA	2:K:654:VAL:HG12	2.02	0.41
2:K:757:LEU:HD22	3:a:62:LEU:HD23	2.02	0.41
2:K:873:LEU:O	2:K:877:ARG:NH1	2.54	0.41
2:K:1165:VAL:HG13	2:K:1166:HIS:CD2	2.55	0.41
2:L:375:VAL:HG23	2:L:376:TYR:CD2	2.55	0.41
2:L:461:LEU:HD13	2:L:552:CYS:HB2	2.02	0.41
2:L:469:PRO:HA	2:L:470:PRO:HD3	1.99	0.41
2:L:947:THR:HG22	2:L:967:HIS:NE2	2.36	0.41
2:L:1110:VAL:HA	2:L:1171:ALA:HB3	2.02	0.41
2:M:189:PRO:HG3	2:M:1285:TYR:CE2	2.55	0.41
2:M:894:GLU:HA	2:M:914:GLN:O	2.21	0.41
2:M:1279:PHE:O	2:M:1282:ILE:HG13	2.21	0.41
2:N:445:ALA:HA	2:N:1110:VAL:HG21	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:724:PRO:HD3	2:N:778:TRP:CH2	2.56	0.41
2:O:337:PRO:HG2	2:O:338:HIS:CD2	2.56	0.41
2:O:756:ARG:HG3	2:O:767:PHE:CZ	2.56	0.41
2:O:960:VAL:HG11	2:O:967:HIS:HD2	1.86	0.41
2:O:1215:TYR:CD1	2:O:1236:ALA:HB2	2.56	0.41
2:P:396:PRO:HB3	2:P:1186:PHE:CZ	2.56	0.41
2:P:472:GLU:HB2	2:P:475:MET:HG2	2.03	0.41
2:P:592:GLU:HA	2:P:595:ARG:HE	1.85	0.41
2:P:800:LEU:HD22	2:P:952:LEU:HD21	2.03	0.41
2:P:1276:LYS:HE2	2:P:1281:THR:HA	2.03	0.41
3:X:47:TYR:OH	3:X:63:ASP:OD2	2.28	0.41
5:i:34:ILE:HD11	5:i:83:LEU:HD13	2.03	0.41
5:i:149:ARG:O	5:i:153:MET:HG2	2.18	0.41
5:i:177:PHE:H	5:i:180:ALA:HB3	1.85	0.41
4:m:175:TRP:HZ2	4:m:205:LEU:HD13	1.85	0.41
4:m:175:TRP:CH2	4:m:219:ALA:HA	2.56	0.41
5:o:49:HIS:CD2	5:o:131:GLU:HB3	2.56	0.41
4:p:46:LEU:HD12	5:r:303:ILE:HD12	2.01	0.41
4:p:85:TYR:CE1	4:p:168:PRO:HD3	2.56	0.41
4:p:233:ARG:HE	4:p:242:PRO:HG3	1.85	0.41
5:q:100:VAL:HG13	5:q:178:ARG:HD2	2.02	0.41
5:r:140:MET:HE3	5:r:144:LEU:HD21	2.01	0.41
5:r:278:LEU:O	5:r:282:ILE:HG12	2.20	0.41
5:t:74:ARG:O	5:t:82:LEU:HB2	2.21	0.41
5:t:170:GLN:OE1	5:t:173:GLN:NE2	2.54	0.41
5:t:260:SER:O	5:t:264:GLU:HG2	2.20	0.41
5:u:73:MET:HA	5:u:83:LEU:HD23	2.02	0.41
1:v:223:LYS:O	1:v:227:ARG:HG2	2.20	0.41
1:x:235:LEU:HD23	1:x:254:LEU:HD21	2.02	0.41
1:0:246:ASP:HB2	1:0:281:SER:HB2	2.02	0.41
1:6:124:ILE:HD13	1:6:127:ARG:HH21	1.86	0.41
1:7:195:ALA:O	1:7:199:ALA:N	2.38	0.41
1:7:224:CYS:O	1:7:228:ILE:HG13	2.21	0.41
1:9:98:ASP:N	1:9:98:ASP:OD1	2.53	0.41
2:A:371:ASN:O	2:A:374:ARG:NH1	2.54	0.41
2:A:1128:ASP:O	2:A:1132:ARG:HG2	2.20	0.41
2:C:661:LEU:HB3	2:C:666:LEU:HD11	2.02	0.41
2:C:710:LEU:HD11	2:C:783:VAL:HG22	2.02	0.41
2:C:901:HIS:HA	2:C:904:ARG:HG2	2.03	0.41
2:C:1295:GLY:O	2:D:210:ILE:HD12	2.20	0.41
2:D:73:ALA:HA	2:D:261:TYR:CZ	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:855:GLU:O	2:D:859:GLU:HG2	2.21	0.41
2:E:41:ASP:OD1	2:E:45:ARG:NH2	2.50	0.41
2:E:583:ARG:NH2	2:F:569:PRO:HD3	2.36	0.41
2:E:672:PHE:HZ	2:F:643:GLN:HB2	1.86	0.41
2:G:1146:GLU:C	2:G:1147:THR:HG1	2.29	0.41
2:I:475:MET:HE1	2:I:527:ILE:HB	2.02	0.41
2:J:457:PRO:HG3	2:J:537:PHE:CG	2.56	0.41
2:K:79:LYS:HG2	2:K:1059:ILE:HG13	2.03	0.41
2:K:527:ILE:HG22	2:K:1218:ARG:HH12	1.85	0.41
2:K:1101:ARG:NH2	2:L:202:LEU:HD13	2.26	0.41
2:L:553:THR:HG22	2:L:988:ARG:HH21	1.85	0.41
2:M:196:LEU:HD23	2:M:196:LEU:HA	1.92	0.41
2:M:553:THR:HG23	2:M:910:PHE:CZ	2.56	0.41
2:M:867:ASP:OD1	2:M:868:ALA:N	2.54	0.41
2:N:131:LEU:HD13	2:N:160:VAL:HG22	2.02	0.41
2:N:277:ALA:HB2	2:N:371:ASN:HD21	1.85	0.41
2:N:524:VAL:HA	2:N:1227:ALA:HB2	2.03	0.41
2:N:624:PHE:HE2	2:N:660:HIS:HB2	1.86	0.41
2:O:420:VAL:HG21	2:O:576:TRP:HB3	2.03	0.41
2:O:797:ALA:HA	2:O:924:VAL:HG22	2.03	0.41
2:O:798:CYS:HB3	2:O:948:ILE:HG21	2.01	0.41
2:P:360:ILE:O	2:P:366:THR:HA	2.20	0.41
5:i:51:PHE:CD1	5:i:64:LEU:HD13	2.56	0.41
5:k:273:VAL:HG22	5:k:276:ARG:NH2	2.36	0.41
5:o:270:ALA:HA	5:o:273:VAL:HG12	2.03	0.41
5:q:103:GLU:HB2	5:q:106:ASP:OD2	2.21	0.41
5:r:108:LEU:HB2	5:r:288:PHE:HB2	2.02	0.41
1:x:81:GLU:HB2	1:x:114:PHE:CE2	2.55	0.41
1:7:277:ILE:HG13	3:e:42:THR:HB	2.03	0.40
1:8:171:LEU:HB3	1:8:212:ASN:ND2	2.37	0.40
2:A:884:GLN:HA	3:Q:66:ARG:HB2	2.03	0.40
2:B:77:ALA:HA	2:B:1057:VAL:O	2.21	0.40
2:B:447:LYS:HE2	2:B:1112:ASP:HB3	2.02	0.40
2:C:518:VAL:HB	2:C:1179:VAL:HG11	2.03	0.40
2:C:555:ARG:O	2:C:1015:ILE:HG12	2.20	0.40
2:C:704:SER:O	2:C:707:VAL:HG22	2.21	0.40
2:C:1115:ARG:NH2	2:C:1138:GLU:HB3	2.36	0.40
2:D:1174:LEU:HD11	2:D:1262:CYS:SG	2.61	0.40
2:E:534:HIS:HD2	2:E:537:PHE:CG	2.39	0.40
2:F:297:SER:HA	2:F:354:PRO:HA	2.03	0.40
2:F:774:THR:O	2:F:778:TRP:N	2.45	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:632:ALA:O	2:G:636:VAL:HG12	2.20	0.40
2:G:1291:ASP:OD1	2:G:1316:ARG:NH2	2.54	0.40
2:G:1365:SER:O	2:G:1369:ASN:N	2.51	0.40
2:H:493:ARG:O	2:H:496:PRO:HD2	2.20	0.40
2:H:1109:ARG:HE	2:I:1225:PHE:HB3	1.86	0.40
2:I:594:LEU:HA	2:I:597:PHE:HB3	2.02	0.40
2:I:727:MET:HB2	2:I:730:VAL:HB	2.02	0.40
2:K:30:GLU:O	2:O:1280:LYS:HD3	2.21	0.40
2:K:812:PHE:O	2:K:814:ARG:HG3	2.20	0.40
2:K:850:ARG:HE	2:K:858:THR:HG21	1.86	0.40
2:K:1221:ASP:OD1	2:K:1222:ALA:N	2.54	0.40
2:L:382:LYS:HZ3	2:M:202:LEU:CD1	2.34	0.40
2:M:66:PHE:O	2:M:72:ALA:HB2	2.22	0.40
2:M:337:PRO:HG2	2:M:338:HIS:ND1	2.36	0.40
2:M:756:ARG:HG3	2:M:767:PHE:CZ	2.57	0.40
2:O:756:ARG:HG3	2:O:767:PHE:CE1	2.56	0.40
2:P:638:MET:HE1	2:P:642:ARG:HH21	1.84	0.40
2:P:948:ILE:O	2:P:952:LEU:HD13	2.21	0.40
3:b:71:SER:HB3	1:y:245:PHE:HD1	1.86	0.40
5:i:169:VAL:O	5:i:173:GLN:HB2	2.21	0.40
5:k:86:PRO:HA	5:k:92:TYR:CZ	2.56	0.40
5:k:90:LEU:HB2	5:k:92:TYR:CE1	2.55	0.40
5:l:66:ARG:NH2	5:l:283:ARG:O	2.55	0.40
5:l:278:LEU:O	5:l:282:ILE:HG12	2.21	0.40
5:n:14:HIS:HB3	5:n:127:LEU:HD13	2.03	0.40
4:p:71:GLU:HB3	4:p:79:HIS:CE1	2.56	0.40
5:r:91:LEU:H	5:r:91:LEU:HG	1.67	0.40
1:y:102:ALA:HB2	1:y:138:MET:HE1	2.02	0.40
1:1:256:HIS:NE2	2:C:748:HIS:HA	2.37	0.40
1:2:274:ASP:O	1:2:277:ILE:HG22	2.21	0.40
1:4:60:LEU:HD23	1:4:228:ILE:HD13	2.03	0.40
2:A:459:PRO:HB2	2:A:1242:VAL:HB	2.02	0.40
2:A:514:GLN:HG2	2:A:993:ARG:HD2	2.03	0.40
2:B:597:PHE:O	2:B:601:VAL:HG12	2.21	0.40
2:C:4:TRP:O	2:C:8:GLU:HG3	2.22	0.40
2:C:555:ARG:HB3	2:C:560:ASN:HB2	2.03	0.40
2:D:12:LYS:HE3	2:N:94:HIS:ND1	2.35	0.40
2:D:514:GLN:HE22	2:D:990:PRO:HA	1.86	0.40
2:E:913:ARG:O	2:E:985:ASN:ND2	2.53	0.40
2:E:1039:THR:HG21	2:E:1259:TYR:HE2	1.85	0.40
2:F:573:LEU:HD23	2:F:576:TRP:CE3	2.57	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1199:MET:HB3	2:F:1275:ASN:HB3	2.04	0.40
2:H:598:LYS:HB2	2:H:792:MET:HE3	2.03	0.40
2:H:942:PHE:HE1	2:H:992:SER:HA	1.86	0.40
2:H:1070:ASP:CG	5:r:91:LEU:HB2	2.46	0.40
2:I:733:VAL:HG21	2:I:896:ARG:NH1	2.36	0.40
2:J:450:CYS:SG	2:J:1131:ILE:HD12	2.62	0.40
2:K:77:ALA:HA	2:K:1057:VAL:O	2.21	0.40
2:K:808:LEU:HD23	2:K:883:VAL:HG13	2.02	0.40
2:L:457:PRO:HD3	2:L:537:PHE:CZ	2.56	0.40
2:L:571:HIS:O	2:L:575:THR:OG1	2.35	0.40
2:L:1033:ALA:C	2:L:1034:LEU:HD12	2.46	0.40
2:M:535:PRO:HD2	2:M:1239:LEU:HD23	2.03	0.40
3:W:13:LYS:O	3:W:16:GLU:HG2	2.20	0.40
3:c:15:ASP:HA	3:c:18:HIS:HD2	1.85	0.40
4:g:54:GLU:HB3	4:g:142:ILE:O	2.21	0.40
4:g:220:ARG:HG2	4:g:227:ARG:NH2	2.37	0.40
5:k:154:GLY:HA2	5:k:189:ILE:HD12	2.03	0.40
5:n:175:ILE:HB	5:n:182:PHE:HB2	2.04	0.40
4:p:68:ILE:HG22	4:p:131:THR:HA	2.03	0.40
4:p:188:ILE:HD12	4:p:205:LEU:HB2	2.03	0.40
5:q:65:LEU:HD21	5:q:110:VAL:HG12	2.03	0.40
5:r:259:VAL:HG11	5:r:264:GLU:OE1	2.21	0.40
5:t:203:SER:HB2	5:t:278:LEU:HD13	2.03	0.40
1:0:190:ARG:N	1:0:198:ASN:OD1	2.52	0.40
1:5:274:ASP:O	1:5:277:ILE:HG22	2.22	0.40
1:8:92:TYR:CE1	1:8:106:LEU:HD13	2.55	0.40
2:A:82:ASP:N	2:A:82:ASP:OD1	2.53	0.40
2:A:283:ILE:HG21	2:A:369:MET:HE1	2.03	0.40
2:A:312:ALA:O	2:A:316:ILE:HG13	2.21	0.40
2:A:391:LEU:HD22	2:A:1042:PHE:CE1	2.56	0.40
2:A:431:LEU:HB2	2:A:1363:GLN:HE21	1.87	0.40
2:A:460:CYS:HA	2:A:1242:VAL:HG11	2.03	0.40
2:A:578:ILE:HG21	2:A:687:ILE:HG23	2.04	0.40
2:A:778:TRP:O	2:A:782:LYS:HG3	2.21	0.40
2:B:1021:VAL:O	2:B:1025:LYS:HG2	2.20	0.40
2:C:51:GLU:OE2	2:D:90:LYS:HD2	2.21	0.40
2:C:58:CYS:HA	2:D:94:HIS:O	2.21	0.40
2:C:1109:ARG:HH21	2:C:1169:LYS:HD2	1.86	0.40
2:C:1221:ASP:HB3	2:C:1224:THR:O	2.22	0.40
2:D:451:HIS:HE1	2:D:1114:PHE:HA	1.85	0.40
2:D:1279:PHE:HA	2:D:1282:ILE:HG22	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:553:THR:HG23	2:E:910:PHE:CE1	2.57	0.40
2:E:782:LYS:O	2:E:786:LEU:HB3	2.20	0.40
2:F:779:THR:O	2:F:783:VAL:HG23	2.20	0.40
2:G:147:ILE:O	2:G:151:ILE:HG12	2.21	0.40
2:G:184:LEU:HB3	2:G:387:ARG:NH2	2.37	0.40
2:G:226:THR:HG23	2:G:242:PHE:CE1	2.57	0.40
2:H:101:ALA:HA	2:M:127:ILE:HD11	2.04	0.40
2:H:502:ARG:NH2	2:H:958:ARG:HD2	2.37	0.40
2:H:1285:TYR:CG	2:H:1317:LEU:HD12	2.56	0.40
2:I:128:PRO:HA	2:I:1075:TYR:O	2.22	0.40
2:I:212:ARG:HH12	2:I:1204:PRO:CD	2.33	0.40
2:I:417:ASN:OD1	2:I:418:ASP:N	2.55	0.40
2:J:518:VAL:HG12	2:J:564:GLY:HA2	2.03	0.40
2:J:553:THR:HG23	2:J:910:PHE:CE1	2.56	0.40
2:J:556:ILE:O	2:J:1015:ILE:HG13	2.21	0.40
2:J:1291:ASP:HB3	2:J:1316:ARG:HH22	1.86	0.40
2:K:451:HIS:CE1	2:K:1117:PHE:HB2	2.56	0.40
2:K:543:GLN:OE1	2:K:548:THR:HG22	2.21	0.40
2:K:597:PHE:CE1	2:K:648:ALA:HB1	2.56	0.40
2:K:927:PRO:HB2	2:K:930:LEU:HB2	2.04	0.40
2:K:1010:ALA:HA	2:K:1013:TYR:CE2	2.56	0.40
2:M:445:ALA:HA	2:M:1110:VAL:HG21	2.03	0.40
2:M:1127:VAL:O	2:M:1131:ILE:HG12	2.21	0.40
2:N:59:ASN:HB3	2:O:95:VAL:HG22	2.03	0.40
2:N:946:PRO:O	2:N:950:ALA:N	2.39	0.40
2:O:913:ARG:O	2:O:914:GLN:NE2	2.55	0.40
2:O:1062:PRO:HA	2:O:1078:THR:O	2.22	0.40
2:P:1160:ASN:OD1	2:P:1298:ASP:N	2.46	0.40
3:S:51:SER:HA	3:S:54:PHE:CZ	2.57	0.40
3:X:15:ASP:O	3:X:19:ARG:HG2	2.22	0.40
4:g:150:MET:HE1	5:i:291:CYS:HB3	2.04	0.40
4:g:267:LYS:C	4:g:269:LEU:H	2.29	0.40
4:j:118:LEU:HA	4:j:128:ARG:NH1	2.36	0.40
4:j:156:ASN:HD22	4:j:160:THR:HB	1.85	0.40
5:n:95:LEU:HG	5:n:298:LYS:O	2.21	0.40
5:o:71:THR:CG2	5:o:83:LEU:HB3	2.51	0.40
5:o:149:ARG:NH1	5:o:172:LEU:HA	2.37	0.40
5:q:209:ASN:HD22	5:r:237:LEU:HD12	1.86	0.40
5:r:214:LEU:HD21	5:r:267:ARG:HB3	2.02	0.40
5:t:218:TYR:HE2	5:u:202:LEU:HD12	1.85	0.40
2:A:435:ARG:HD2	2:A:1367:LEU:HD22	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1004:SER:O	2:A:1007:THR:HG22	2.22	0.40
2:B:701:GLU:HA	2:B:702:PRO:HD3	1.98	0.40
2:B:1250:GLU:HB3	2:B:1254:TYR:HE1	1.87	0.40
2:C:433:ARG:NH2	2:C:1166:HIS:O	2.54	0.40
2:C:617:VAL:HG12	2:C:619:GLY:H	1.86	0.40
2:C:682:ARG:HA	2:C:685:THR:HG22	2.03	0.40
2:C:936:PRO:HB3	2:C:952:LEU:HD22	2.02	0.40
2:C:1347:SER:HB3	2:C:1357:GLY:H	1.86	0.40
2:D:396:PRO:HB3	2:D:1186:PHE:CE1	2.57	0.40
2:E:651:TYR:HB2	2:E:784:PHE:CG	2.56	0.40
2:F:892:VAL:HG11	2:F:979:PHE:CZ	2.56	0.40
2:F:1113:LEU:HD21	2:F:1243:LEU:HD11	2.04	0.40
2:G:803:ASN:HD22	2:G:889:HIS:HD2	1.69	0.40
2:H:64:VAL:HG11	2:H:375:VAL:HG12	2.03	0.40
2:H:746:ALA:O	2:H:767:PHE:HA	2.21	0.40
2:H:796:ARG:HH21	2:M:686:ARG:NH2	2.18	0.40
2:I:505:VAL:HB	2:I:974:PRO:HG3	2.02	0.40
2:I:724:PRO:HB3	2:I:778:TRP:CD2	2.57	0.40
2:I:1004:SER:HA	2:I:1007:THR:HG22	2.03	0.40
2:I:1165:VAL:HG13	2:I:1166:HIS:CD2	2.56	0.40
2:J:867:ASP:OD1	2:J:868:ALA:N	2.55	0.40
2:J:1344:PHE:CD1	2:J:1364:GLN:NE2	2.89	0.40
2:K:106:LEU:HD12	2:K:107:PRO:HD2	2.02	0.40
2:K:800:LEU:HA	2:K:937:VAL:HG12	2.04	0.40
2:K:954:ASP:O	2:K:958:ARG:N	2.49	0.40
2:M:638:MET:CB	2:M:646:VAL:HG21	2.52	0.40
2:N:681:LEU:HB3	2:N:780:LEU:HD22	2.02	0.40
2:O:212:ARG:HH21	2:O:212:ARG:HD3	1.68	0.40
2:O:359:VAL:HG12	2:O:368:ILE:HD13	2.02	0.40
2:O:455:HIS:NE2	2:O:1017:PRO:HB3	2.36	0.40
2:O:518:VAL:HG11	2:O:567:PRO:HG3	2.02	0.40
2:O:946:PRO:HD2	2:O:969:HIS:HD1	1.86	0.40
2:O:1069:ARG:O	2:O:1071:ILE:N	2.54	0.40
2:P:272:VAL:HG23	2:P:368:ILE:HB	2.04	0.40
2:P:495:ILE:HD11	2:P:938:PRO:HG2	2.03	0.40
4:g:243:LEU:HB3	4:g:244:CYS:H	1.51	0.40
5:i:62:ARG:HH12	5:i:147:ASN:CG	2.29	0.40
5:l:228:SER:C	5:l:230:LEU:H	2.29	0.40
4:m:46:LEU:HD12	5:o:303:ILE:HD12	2.03	0.40
5:n:107:ALA:HB1	5:n:286:VAL:HG13	2.03	0.40
5:o:24:LEU:HD11	5:o:73:MET:HE1	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:48:ALA:HB2	5:u:291:CYS:HB2	2.03	0.40
4:s:263:PHE:CE2	4:s:270:LYS:HE3	2.57	0.40
1:v:6:ILE:HB	1:v:50:THR:HG23	2.03	0.40
1:6:20:LEU:HB3	1:6:65:GLU:HG3	2.04	0.40
1:7:73:LEU:HD13	1:7:210:ILE:HD12	2.03	0.40
1:8:262:ASP:OD2	1:9:191:HIS:N	2.54	0.40
1:9:274:ASP:O	1:9:277:ILE:HG22	2.22	0.40
2:A:134:ALA:O	2:A:137:THR:HG22	2.22	0.40
2:A:183:LEU:HD22	2:A:1048:LEU:HD21	2.03	0.40
2:B:53:ILE:HD11	2:C:92:LEU:HD13	2.03	0.40
2:B:164:LEU:HD11	2:B:321:ILE:HG13	2.03	0.40
2:B:437:VAL:O	2:C:1184:ASN:ND2	2.55	0.40
2:B:799:GLY:HA2	2:B:923:VAL:HB	2.03	0.40
2:B:817:PHE:HB3	2:B:880:PHE:CE1	2.56	0.40
2:B:1239:LEU:HD12	2:B:1240:SER:N	2.37	0.40
2:C:747:ARG:HH11	2:C:756:ARG:NH2	2.20	0.40
2:C:914:GLN:OE1	2:C:986:TRP:HD1	2.04	0.40
2:D:63:TRP:CH2	2:D:165:LYS:HB3	2.52	0.40
2:D:382:LYS:HB2	2:E:204:ARG:NH1	2.36	0.40
2:D:440:ILE:HD11	2:D:444:ASP:HB2	2.04	0.40
2:D:894:GLU:HG2	2:D:915:HIS:CE1	2.57	0.40
2:D:989:SER:N	2:D:990:PRO:HD2	2.36	0.40
2:E:694:ASN:HA	2:E:703:LEU:HD23	2.03	0.40
2:E:1103:ARG:CD	2:E:1168:GLN:HE22	2.32	0.40
2:E:1132:ARG:HH22	2:E:1140:PRO:HD3	1.86	0.40
2:E:1249:ARG:HG2	2:E:1254:TYR:CD1	2.56	0.40
2:F:127:ILE:HA	2:F:127:ILE:HD13	1.83	0.40
2:G:394:PHE:HE2	2:G:1186:PHE:HD1	1.70	0.40
2:G:488:MET:HE1	2:G:978:ALA:HB1	2.02	0.40
2:G:715:LEU:C	2:G:716:TRP:HD1	2.29	0.40
2:G:870:THR:HB	2:G:874:GLN:HB2	2.04	0.40
2:H:603:SER:HB3	2:H:605:ASN:OD1	2.21	0.40
2:H:1066:LYS:HG3	2:H:1075:TYR:HE1	1.87	0.40
2:I:452:PRO:HG3	2:I:1122:TYR:CE2	2.56	0.40
2:I:681:LEU:HB3	2:I:780:LEU:HD22	2.03	0.40
2:I:805:LYS:H	2:I:889:HIS:CE1	2.38	0.40
2:I:1366:MET:HE2	2:I:1366:MET:HB3	1.88	0.40
2:J:617:VAL:HG12	2:J:619:GLY:H	1.87	0.40
2:K:804:LEU:HD13	2:K:886:VAL:HG13	2.04	0.40
2:K:1101:ARG:HD3	2:L:199:ASN:HD21	1.86	0.40
2:L:331:HIS:O	2:L:335:GLY:N	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:427:THR:HG22	2:L:441:ASP:OD1	2.21	0.40
2:L:698:LEU:HD23	2:L:1127:VAL:HG22	2.03	0.40
2:L:1044:VAL:HG11	2:L:1096:VAL:HG13	2.04	0.40
2:M:433:ARG:NH1	2:M:1165:VAL:O	2.50	0.40
2:N:435:ARG:HG3	2:N:1367:LEU:HD13	2.03	0.40
2:N:495:ILE:CG2	2:N:496:PRO:HD3	2.51	0.40
2:N:812:PHE:O	2:N:814:ARG:HG3	2.21	0.40
2:O:360:ILE:O	2:O:366:THR:HA	2.21	0.40
2:P:1249:ARG:HG2	2:P:1254:TYR:CD1	2.57	0.40
2:P:1362:LEU:HD12	2:P:1363:GLN:HG3	2.04	0.40
3:S:40:LEU:O	3:S:44:LEU:HG	2.21	0.40
3:Y:43:MET:HE2	3:Y:67:MET:HG3	2.03	0.40
3:c:34:GLU:HA	3:c:40:LEU:HD23	2.03	0.40
4:g:266:HIS:ND1	4:g:267:LYS:HG3	2.36	0.40
4:j:285:ASP:OD1	4:j:286:PHE:N	2.54	0.40
5:k:279:ASP:OD1	5:l:275:LEU:HB3	2.22	0.40
5:n:13:ASP:H	5:n:43:HIS:CE1	2.39	0.40
4:s:61:ALA:HA	4:s:138:VAL:HG21	2.03	0.40
4:s:125:LEU:HD12	4:s:200:PRO:HB3	2.04	0.40
5:u:57:GLY:H	5:u:196:ASP:HB2	1.85	0.40
1:y:94:TYR:CD1	1:y:95:PRO:HD2	2.57	0.40
1:y:261:GLY:O	1:y:265:ASP:N	2.47	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	283/285 (99%)	274 (97%)	6 (2%)	3 (1%)	11	43
1	1	283/285 (99%)	267 (94%)	13 (5%)	3 (1%)	11	43
1	2	283/285 (99%)	267 (94%)	14 (5%)	2 (1%)	18	53

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	3	283/285 (99%)	266 (94%)	11 (4%)	6 (2%)	5	31
1	4	283/285 (99%)	271 (96%)	10 (4%)	2 (1%)	18	53
1	5	283/285 (99%)	272 (96%)	7 (2%)	4 (1%)	9	38
1	6	283/285 (99%)	271 (96%)	10 (4%)	2 (1%)	18	53
1	7	283/285 (99%)	267 (94%)	13 (5%)	3 (1%)	11	43
1	8	283/285 (99%)	275 (97%)	5 (2%)	3 (1%)	11	43
1	9	283/285 (99%)	271 (96%)	8 (3%)	4 (1%)	9	38
1	v	283/285 (99%)	262 (93%)	13 (5%)	8 (3%)	4	27
1	w	283/285 (99%)	269 (95%)	12 (4%)	2 (1%)	18	53
1	x	283/285 (99%)	264 (93%)	14 (5%)	5 (2%)	6	34
1	y	283/285 (99%)	270 (95%)	11 (4%)	2 (1%)	18	53
1	z	283/285 (99%)	272 (96%)	7 (2%)	4 (1%)	9	38
2	A	1321/1370 (96%)	1230 (93%)	78 (6%)	13 (1%)	12	45
2	B	1329/1370 (97%)	1226 (92%)	80 (6%)	23 (2%)	7	35
2	C	1345/1370 (98%)	1259 (94%)	71 (5%)	15 (1%)	11	43
2	D	1342/1370 (98%)	1233 (92%)	94 (7%)	15 (1%)	11	43
2	E	1343/1370 (98%)	1233 (92%)	90 (7%)	20 (2%)	8	37
2	F	1346/1370 (98%)	1242 (92%)	87 (6%)	17 (1%)	9	40
2	G	1347/1370 (98%)	1250 (93%)	82 (6%)	15 (1%)	11	43
2	H	1348/1370 (98%)	1253 (93%)	86 (6%)	9 (1%)	18	53
2	I	1343/1370 (98%)	1243 (93%)	88 (7%)	12 (1%)	14	47
2	J	1329/1370 (97%)	1239 (93%)	76 (6%)	14 (1%)	11	43
2	K	1344/1370 (98%)	1249 (93%)	87 (6%)	8 (1%)	21	55
2	L	1349/1370 (98%)	1259 (93%)	77 (6%)	13 (1%)	12	45
2	M	1349/1370 (98%)	1250 (93%)	89 (7%)	10 (1%)	18	53
2	N	1346/1370 (98%)	1256 (93%)	81 (6%)	9 (1%)	18	53
2	O	1344/1370 (98%)	1243 (92%)	84 (6%)	17 (1%)	9	40
2	P	1344/1370 (98%)	1249 (93%)	81 (6%)	14 (1%)	12	45
3	Q	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	R	61/75 (81%)	57 (93%)	4 (7%)	0	100	100
3	S	61/75 (81%)	58 (95%)	3 (5%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	T	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	U	61/75 (81%)	56 (92%)	5 (8%)	0	100	100
3	V	61/75 (81%)	56 (92%)	4 (7%)	1 (2%)	7	36
3	W	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	X	61/75 (81%)	59 (97%)	2 (3%)	0	100	100
3	Y	61/75 (81%)	57 (93%)	4 (7%)	0	100	100
3	Z	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	a	61/75 (81%)	59 (97%)	2 (3%)	0	100	100
3	b	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	c	61/75 (81%)	60 (98%)	1 (2%)	0	100	100
3	d	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	e	61/75 (81%)	57 (93%)	4 (7%)	0	100	100
3	f	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
4	g	258/290 (89%)	234 (91%)	21 (8%)	3 (1%)	10	41
4	j	288/290 (99%)	267 (93%)	17 (6%)	4 (1%)	9	38
4	m	288/290 (99%)	272 (94%)	14 (5%)	2 (1%)	18	53
4	p	288/290 (99%)	269 (93%)	16 (6%)	3 (1%)	12	45
4	s	288/290 (99%)	266 (92%)	17 (6%)	5 (2%)	7	35
5	h	288/306 (94%)	260 (90%)	21 (7%)	7 (2%)	4	29
5	i	281/306 (92%)	257 (92%)	20 (7%)	4 (1%)	9	38
5	k	288/306 (94%)	268 (93%)	14 (5%)	6 (2%)	5	31
5	l	301/306 (98%)	274 (91%)	24 (8%)	3 (1%)	12	45
5	n	291/306 (95%)	271 (93%)	15 (5%)	5 (2%)	7	35
5	o	287/306 (94%)	266 (93%)	18 (6%)	3 (1%)	12	45
5	q	291/306 (95%)	279 (96%)	11 (4%)	1 (0%)	36	69
5	r	302/306 (99%)	275 (91%)	21 (7%)	6 (2%)	6	32
5	t	292/306 (95%)	269 (92%)	19 (6%)	4 (1%)	9	38
5	u	302/306 (99%)	275 (91%)	24 (8%)	3 (1%)	12	45
All	All	31023/31905 (97%)	28879 (93%)	1807 (6%)	337 (1%)	14	43

All (337) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	3	183	PRO
2	A	694	ASN
2	A	805	LYS
2	B	203	ALA
2	B	844	ASP
2	B	1054	CYS
2	B	1162	ALA
2	C	254	ILE
2	C	1002	LEU
2	D	39	TYR
2	D	970	ASP
2	E	691	PRO
2	E	1162	ALA
2	E	1183	VAL
2	F	337	PRO
2	F	340	PRO
2	H	970	ASP
2	J	862	GLU
2	J	970	ASP
2	K	771	TYR
2	K	970	ASP
2	N	970	ASP
2	N	1002	LEU
2	O	1002	LEU
2	P	337	PRO
5	1	250	PRO
1	1	6	ILE
1	2	74	SER
1	3	190	ARG
1	9	179	PHE
2	A	45	ARG
2	A	1052	LYS
2	A	1138	GLU
2	A	1204	PRO
2	B	198	GLU
2	B	689	ALA
2	B	699	ALA
2	B	763	ASP
2	B	862	GLU
2	B	1002	LEU
2	C	699	ALA
2	C	769	ASP
2	C	898	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	D	254	ILE
2	D	340	PRO
2	D	350	HIS
2	D	489	GLY
2	D	699	ALA
2	D	1071	ILE
2	D	1109	ARG
2	D	1193	ARG
2	E	23	VAL
2	E	33	GLU
2	E	693	LEU
2	E	699	ALA
2	E	970	ASP
2	E	1054	CYS
2	F	144	GLU
2	F	691	PRO
2	F	728	GLU
2	F	1054	CYS
2	G	545	ASN
2	G	663	ASP
2	H	23	VAL
2	H	254	ILE
2	I	23	VAL
2	I	33	GLU
2	I	413	LYS
2	I	545	ASN
2	I	871	PRO
2	J	33	GLU
2	J	364	GLU
2	J	699	ALA
2	K	33	GLU
2	L	254	ILE
2	L	699	ALA
2	L	970	ASP
2	L	1002	LEU
2	M	33	GLU
2	M	272	VAL
2	M	771	TYR
2	M	970	ASP
2	M	1002	LEU
2	N	23	VAL
2	O	139	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	O	481	CYS
2	O	699	ALA
2	O	970	ASP
2	O	1070	ASP
2	P	43	PRO
2	P	317	SER
2	P	871	PRO
2	P	970	ASP
4	g	277	ASP
5	h	129	GLN
5	h	259	VAL
5	i	178	ARG
5	k	35	PRO
5	k	304	PHE
5	n	35	PRO
5	o	28	VAL
5	o	244	GLU
4	p	73	GLY
5	q	35	PRO
5	r	259	VAL
4	s	200	PRO
5	t	75	ARG
1	v	74	SER
1	0	260	ASN
1	3	191	HIS
1	5	70	ASN
1	5	241	MET
1	8	6	ILE
2	A	168	ALA
2	A	1181	MET
2	B	746	ALA
2	B	991	PHE
2	C	337	PRO
2	C	862	GLU
2	C	1227	ALA
2	D	1002	LEU
2	E	3	ASN
2	E	349	ALA
2	E	518	VAL
2	E	688	SER
2	E	898	PRO
2	E	929	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	F	862	GLU
2	G	518	VAL
2	G	752	SER
2	I	254	ILE
2	I	343	SER
2	I	970	ASP
2	J	404	ASP
2	J	413	LYS
2	J	1298	ASP
2	K	45	ARG
2	K	124	PRO
2	K	343	SER
2	K	1070	ASP
2	L	22	HIS
2	L	33	GLU
2	M	317	SER
2	M	343	SER
2	M	489	GLY
2	N	812	PHE
2	N	847	ALA
2	O	545	ASN
2	O	939	PHE
2	O	1298	ASP
2	P	44	GLU
2	P	545	ASN
2	P	699	ALA
5	h	75	ARG
4	j	122	PRO
4	j	140	LEU
4	j	195	GLY
5	k	102	TRP
5	k	303	ILE
5	n	124	LEU
4	p	140	LEU
5	r	122	GLU
5	r	247	VAL
4	s	140	LEU
4	s	201	GLY
5	t	35	PRO
5	u	250	PRO
1	v	192	ALA
1	v	260	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	w	260	ASN
1	x	260	ASN
1	y	260	ASN
1	z	151	THR
1	z	260	ASN
1	0	70	ASN
1	1	70	ASN
1	1	260	ASN
1	3	70	ASN
1	5	260	ASN
1	7	176	ARG
1	8	260	ASN
1	9	6	ILE
1	9	70	ASN
2	B	413	LYS
2	B	436	ALA
2	B	812	PHE
2	B	1126	GLU
2	C	847	ALA
2	C	1142	LEU
2	D	54	PHE
2	E	999	PRO
2	F	128	PRO
2	F	489	GLY
2	F	665	ALA
2	F	752	SER
2	F	939	PHE
2	F	1307	THR
2	G	140	ARG
2	G	337	PRO
2	G	1223	GLN
2	H	413	LYS
2	H	939	PHE
2	H	1002	LEU
2	J	939	PHE
2	J	1109	ARG
2	L	481	CYS
2	L	735	ASP
2	L	939	PHE
2	L	999	PRO
2	L	1268	THR
2	N	481	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	939	PHE
2	O	124	PRO
2	O	974	PRO
2	O	999	PRO
2	P	771	TYR
4	g	240	GLN
4	j	244	CYS
5	k	75	ARG
5	l	128	GLY
4	m	244	CYS
5	n	125	LEU
5	r	227	SER
5	r	258	HIS
4	s	244	CYS
1	x	74	SER
1	z	70	ASN
1	3	6	ILE
1	4	6	ILE
1	4	70	ASN
1	5	6	ILE
1	7	187	ASN
1	8	70	ASN
1	9	260	ASN
2	A	1030	PRO
2	A	1202	VAL
2	A	1350	HIS
2	B	349	ALA
2	B	690	LEU
2	B	705	ALA
2	B	970	ASP
2	B	999	PRO
2	B	1143	LEU
2	C	695	ASN
2	C	1054	CYS
2	C	1109	ARG
2	D	939	PHE
2	E	939	PHE
2	E	1171	ALA
2	E	1323	PRO
2	F	1152	THR
2	G	349	ALA
2	H	54	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	999	PRO
2	I	124	PRO
2	I	1140	PRO
2	J	5	SER
2	J	905	GLN
2	K	999	PRO
2	L	124	PRO
2	L	1108	VAL
2	N	124	PRO
2	O	31	MET
2	O	337	PRO
2	O	1030	PRO
2	O	1171	ALA
2	P	5	SER
2	P	939	PHE
2	P	999	PRO
3	V	38	PRO
4	g	160	THR
5	h	256	PRO
5	h	304	PHE
5	i	261	PRO
5	k	103	GLU
5	o	79	ASN
5	u	191	GLN
1	v	145	VAL
1	v	182	LYS
1	w	182	LYS
1	x	182	LYS
1	y	70	ASN
1	0	6	ILE
1	3	260	ASN
1	6	6	ILE
1	6	70	ASN
2	B	481	CYS
2	D	707	VAL
2	D	1030	PRO
2	G	128	PRO
2	G	410	VAL
2	G	535	PRO
2	G	687	ILE
2	H	343	SER
2	P	33	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	h	119	LEU
5	i	59	VAL
4	s	221	GLY
1	x	141	ARG
1	7	6	ILE
2	F	535	PRO
2	F	1030	PRO
2	G	457	PRO
2	J	1108	VAL
2	N	337	PRO
4	m	195	GLY
1	v	6	ILE
1	v	181	VAL
2	A	1071	ILE
5	h	188	VAL
5	l	78	GLY
5	n	186	ASP
1	2	70	ASN
2	A	339	LEU
2	E	489	GLY
2	G	1030	PRO
2	G	1071	ILE
2	I	999	PRO
2	J	363	GLY
2	O	23	VAL
5	i	128	GLY
5	t	287	VAL
1	x	70	ASN
2	C	535	PRO
2	C	861	VAL
2	F	457	PRO
2	M	124	PRO
2	M	1030	PRO
2	P	1030	PRO
5	n	99	PRO
4	p	195	GLY
5	u	94	VAL
1	z	6	ILE
2	I	1030	PRO
5	t	128	GLY
1	v	70	ASN
5	r	250	PRO

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	0	256/257 (100%)	256 (100%)	0	100	100
1	1	256/257 (100%)	256 (100%)	0	100	100
1	2	256/257 (100%)	256 (100%)	0	100	100
1	3	256/257 (100%)	256 (100%)	0	100	100
1	4	256/257 (100%)	255 (100%)	1 (0%)	84	83
1	5	256/257 (100%)	256 (100%)	0	100	100
1	6	256/257 (100%)	255 (100%)	1 (0%)	84	83
1	7	256/257 (100%)	255 (100%)	1 (0%)	84	83
1	8	256/257 (100%)	256 (100%)	0	100	100
1	9	256/257 (100%)	255 (100%)	1 (0%)	84	83
1	v	256/257 (100%)	256 (100%)	0	100	100
1	w	256/257 (100%)	256 (100%)	0	100	100
1	x	256/257 (100%)	256 (100%)	0	100	100
1	y	256/257 (100%)	255 (100%)	1 (0%)	84	83
1	z	256/257 (100%)	256 (100%)	0	100	100
2	A	1156/1192 (97%)	1153 (100%)	3 (0%)	86	85
2	B	1162/1192 (98%)	1156 (100%)	6 (0%)	81	82
2	C	1174/1192 (98%)	1171 (100%)	3 (0%)	86	85
2	D	1173/1192 (98%)	1166 (99%)	7 (1%)	78	80
2	E	1174/1192 (98%)	1165 (99%)	9 (1%)	73	77
2	F	1175/1192 (99%)	1169 (100%)	6 (0%)	81	82
2	G	1177/1192 (99%)	1174 (100%)	3 (0%)	86	85
2	H	1177/1192 (99%)	1172 (100%)	5 (0%)	84	83
2	I	1174/1192 (98%)	1169 (100%)	5 (0%)	84	83
2	J	1161/1192 (97%)	1155 (100%)	6 (0%)	81	82
2	K	1174/1192 (98%)	1168 (100%)	6 (0%)	81	82

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	L	1178/1192 (99%)	1176 (100%)	2 (0%)	87	87
2	M	1178/1192 (99%)	1174 (100%)	4 (0%)	86	85
2	N	1175/1192 (99%)	1170 (100%)	5 (0%)	84	83
2	O	1174/1192 (98%)	1171 (100%)	3 (0%)	86	85
2	P	1174/1192 (98%)	1169 (100%)	5 (0%)	84	83
3	Q	59/68 (87%)	59 (100%)	0	100	100
3	R	59/68 (87%)	59 (100%)	0	100	100
3	S	59/68 (87%)	59 (100%)	0	100	100
3	T	59/68 (87%)	59 (100%)	0	100	100
3	U	59/68 (87%)	59 (100%)	0	100	100
3	V	59/68 (87%)	59 (100%)	0	100	100
3	W	59/68 (87%)	59 (100%)	0	100	100
3	X	59/68 (87%)	59 (100%)	0	100	100
3	Y	59/68 (87%)	58 (98%)	1 (2%)	53	68
3	Z	59/68 (87%)	59 (100%)	0	100	100
3	a	59/68 (87%)	59 (100%)	0	100	100
3	b	59/68 (87%)	58 (98%)	1 (2%)	53	68
3	c	59/68 (87%)	59 (100%)	0	100	100
3	d	59/68 (87%)	59 (100%)	0	100	100
3	e	59/68 (87%)	59 (100%)	0	100	100
3	f	59/68 (87%)	59 (100%)	0	100	100
4	g	228/252 (90%)	227 (100%)	1 (0%)	84	83
4	j	252/252 (100%)	251 (100%)	1 (0%)	84	83
4	m	252/252 (100%)	250 (99%)	2 (1%)	73	77
4	p	252/252 (100%)	250 (99%)	2 (1%)	73	77
4	s	252/252 (100%)	250 (99%)	2 (1%)	73	77
5	h	262/273 (96%)	260 (99%)	2 (1%)	73	77
5	i	256/273 (94%)	256 (100%)	0	100	100
5	k	262/273 (96%)	260 (99%)	2 (1%)	73	77
5	l	272/273 (100%)	272 (100%)	0	100	100
5	n	263/273 (96%)	263 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	o	261/273 (96%)	261 (100%)	0	100	100
5	q	263/273 (96%)	262 (100%)	1 (0%)	84	83
5	r	272/273 (100%)	270 (99%)	2 (1%)	76	78
5	t	264/273 (97%)	263 (100%)	1 (0%)	84	83
5	u	272/273 (100%)	272 (100%)	0	100	100
All	All	27423/28005 (98%)	27322 (100%)	101 (0%)	81	83

All (101) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	4	140	VAL
1	6	184	LEU
1	7	140	VAL
1	9	184	LEU
2	A	1362	LEU
2	A	1367	LEU
2	A	1370	SER
2	B	86	LEU
2	B	142	THR
2	B	202	LEU
2	B	207	LEU
2	B	1035	THR
2	B	1303	CYS
2	C	207	LEU
2	C	431	LEU
2	C	1370	SER
2	D	207	LEU
2	D	431	LEU
2	D	450	CYS
2	D	707	VAL
2	D	860	LEU
2	D	1362	LEU
2	D	1370	SER
2	E	204	ARG
2	E	207	LEU
2	E	431	LEU
2	E	666	LEU
2	E	739	LEU
2	E	1183	VAL
2	E	1362	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	E	1367	LEU
2	E	1370	SER
2	F	100	VAL
2	F	207	LEU
2	F	226	THR
2	F	431	LEU
2	F	1362	LEU
2	F	1367	LEU
2	G	207	LEU
2	G	1362	LEU
2	G	1370	SER
2	H	204	ARG
2	H	207	LEU
2	H	431	LEU
2	H	527	ILE
2	H	1370	SER
2	I	207	LEU
2	I	397	VAL
2	I	431	LEU
2	I	1303	CYS
2	I	1370	SER
2	J	207	LEU
2	J	212	ARG
2	J	431	LEU
2	J	1057	VAL
2	J	1303	CYS
2	J	1370	SER
2	K	207	LEU
2	K	212	ARG
2	K	1001	VAL
2	K	1282	ILE
2	K	1303	CYS
2	K	1370	SER
2	L	1057	VAL
2	L	1370	SER
2	M	272	VAL
2	M	1057	VAL
2	M	1282	ILE
2	M	1364	GLN
2	N	116	VAL
2	N	226	THR
2	N	1057	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	1303	CYS
2	N	1370	SER
2	O	207	LEU
2	O	431	LEU
2	O	1370	SER
2	P	202	LEU
2	P	207	LEU
2	P	1057	VAL
2	P	1303	CYS
2	P	1366	MET
3	Y	73	THR
3	b	73	THR
4	g	158	LEU
5	h	239	MET
5	h	241	LEU
4	j	158	LEU
5	k	82	LEU
5	k	238	LEU
4	m	158	LEU
4	m	241	ILE
4	p	158	LEU
4	p	241	ILE
5	q	32	VAL
5	r	91	LEU
5	r	246	SER
4	s	158	LEU
4	s	241	ILE
5	t	124	LEU
1	y	140	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (319) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	54	ASN
1	1	150	GLN
1	2	256	HIS
1	3	4	GLN
1	3	22	HIS
1	3	177	ASN
1	3	187	ASN
1	4	150	GLN
1	4	252	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	5	69	HIS
1	5	105	HIS
1	6	177	ASN
1	7	34	HIS
1	7	150	GLN
1	8	34	HIS
1	8	69	HIS
1	9	177	ASN
1	9	201	ASN
2	A	49	HIS
2	A	338	HIS
2	A	455	HIS
2	A	534	HIS
2	A	560	ASN
2	A	643	GLN
2	A	795	ASN
2	A	984	HIS
2	A	1000	ASN
2	A	1076	HIS
2	A	1111	GLN
2	A	1191	ASN
2	A	1235	GLN
2	A	1319	GLN
2	B	59	ASN
2	B	76	HIS
2	B	199	ASN
2	B	205	GLN
2	B	211	GLN
2	B	422	ASN
2	B	484	GLN
2	B	620	ASN
2	B	740	ASN
2	B	748	HIS
2	B	795	ASN
2	B	901	HIS
2	B	940	HIS
2	B	1076	HIS
2	B	1080	ASN
2	B	1111	GLN
2	B	1319	GLN
2	B	1364	GLN
2	C	22	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	47	ASN
2	C	49	HIS
2	C	231	ASN
2	C	455	HIS
2	C	637	ASN
2	C	708	ASN
2	C	722	HIS
2	C	794	ASN
2	C	849	GLN
2	C	914	GLN
2	C	940	HIS
2	C	984	HIS
2	C	1000	ASN
2	C	1027	HIS
2	C	1079	GLN
2	C	1160	ASN
2	C	1191	ASN
2	C	1319	GLN
2	C	1369	ASN
2	D	81	HIS
2	D	96	GLN
2	D	177	HIS
2	D	208	ASN
2	D	214	ASN
2	D	350	HIS
2	D	422	ASN
2	D	514	GLN
2	D	605	ASN
2	D	694	ASN
2	D	722	HIS
2	D	737	GLN
2	D	794	ASN
2	D	849	GLN
2	D	874	GLN
2	D	967	HIS
2	D	981	HIS
2	D	1061	ASN
2	D	1160	ASN
2	D	1217	HIS
2	D	1223	GLN
2	D	1255	ASN
2	E	208	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	E	319	HIS
2	E	388	ASN
2	E	534	HIS
2	E	605	ASN
2	E	901	HIS
2	E	903	GLN
2	E	914	GLN
2	E	940	HIS
2	E	985	ASN
2	E	1093	ASN
2	E	1264	GLN
2	E	1313	ASN
2	E	1364	GLN
2	F	153	ASN
2	F	438	GLN
2	F	676	ASN
2	F	708	ASN
2	F	1023	GLN
2	F	1111	GLN
2	F	1223	GLN
2	F	1309	GLN
2	F	1319	GLN
2	F	1364	GLN
2	G	22	HIS
2	G	96	GLN
2	G	199	ASN
2	G	208	ASN
2	G	231	ASN
2	G	422	ASN
2	G	455	HIS
2	G	737	GLN
2	G	740	ASN
2	G	803	ASN
2	G	884	GLN
2	G	915	HIS
2	G	1027	HIS
2	G	1079	GLN
2	G	1111	GLN
2	G	1120	ASN
2	G	1124	HIS
2	G	1264	GLN
2	G	1313	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	G	1319	GLN
2	H	59	ASN
2	H	76	HIS
2	H	214	ASN
2	H	484	GLN
2	H	618	HIS
2	H	660	HIS
2	H	711	HIS
2	H	889	HIS
2	H	919	ASN
2	H	1133	HIS
2	H	1168	GLN
2	I	177	HIS
2	I	181	GLN
2	I	199	ASN
2	I	438	GLN
2	I	605	ASN
2	I	794	ASN
2	I	889	HIS
2	I	901	HIS
2	I	945	ASN
2	I	1184	ASN
2	I	1313	ASN
2	J	560	ASN
2	J	711	HIS
2	J	748	HIS
2	J	794	ASN
2	J	889	HIS
2	J	901	HIS
2	J	914	GLN
2	J	945	ASN
2	J	969	HIS
2	J	981	HIS
2	J	984	HIS
2	J	1076	HIS
2	J	1080	ASN
2	J	1111	GLN
2	J	1168	GLN
2	J	1184	ASN
2	J	1223	GLN
2	J	1255	ASN
2	J	1313	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	J	1364	GLN
2	K	177	HIS
2	K	476	GLN
2	K	637	ASN
2	K	749	HIS
2	K	889	HIS
2	K	901	HIS
2	K	919	ASN
2	K	945	ASN
2	K	969	HIS
2	K	1023	GLN
2	K	1120	ASN
2	K	1124	HIS
2	K	1309	GLN
2	L	153	ASN
2	L	371	ASN
2	L	462	GLN
2	L	484	GLN
2	L	618	HIS
2	L	749	HIS
2	L	781	GLN
2	L	889	HIS
2	L	915	HIS
2	L	919	ASN
2	L	945	ASN
2	L	1027	HIS
2	L	1184	ASN
2	L	1235	GLN
2	L	1364	GLN
2	M	94	HIS
2	M	476	GLN
2	M	484	GLN
2	M	541	HIS
2	M	560	ASN
2	M	694	ASN
2	M	711	HIS
2	M	722	HIS
2	M	781	GLN
2	M	849	GLN
2	M	884	GLN
2	M	889	HIS
2	M	1079	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	1369	ASN
2	N	153	ASN
2	N	177	HIS
2	N	543	GLN
2	N	618	HIS
2	N	749	HIS
2	N	781	GLN
2	N	849	GLN
2	N	889	HIS
2	N	915	HIS
2	N	945	ASN
2	N	969	HIS
2	N	981	HIS
2	N	985	ASN
2	N	1023	GLN
2	N	1160	ASN
2	N	1235	GLN
2	N	1364	GLN
2	O	76	HIS
2	O	153	ASN
2	O	208	ASN
2	O	432	ASN
2	O	476	GLN
2	O	781	GLN
2	O	889	HIS
2	O	903	GLN
2	O	914	GLN
2	O	981	HIS
2	O	1023	GLN
2	O	1235	GLN
2	O	1369	ASN
2	P	94	HIS
2	P	208	ASN
2	P	371	ASN
2	P	541	HIS
2	P	560	ASN
2	P	618	HIS
2	P	889	HIS
2	P	914	GLN
2	P	1223	GLN
2	P	1235	GLN
2	P	1255	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	P	1313	ASN
3	U	37	HIS
3	V	20	HIS
3	Y	20	HIS
3	Z	37	HIS
3	a	20	HIS
3	e	20	HIS
4	g	211	HIS
5	h	50	GLN
5	h	80	GLN
5	h	88	HIS
5	h	285	GLN
5	i	39	HIS
5	k	148	GLN
5	k	192	HIS
5	k	257	GLN
5	l	80	GLN
4	m	249	GLN
5	n	84	HIS
5	n	173	GLN
5	o	43	HIS
5	o	79	ASN
5	o	80	GLN
4	p	211	HIS
4	p	213	GLN
4	p	266	HIS
5	q	14	HIS
5	q	49	HIS
5	q	50	GLN
5	q	257	GLN
5	q	297	ASN
4	s	40	HIS
4	s	211	HIS
5	t	7	ASN
5	t	39	HIS
5	t	45	GLN
5	t	49	HIS
5	t	148	GLN
5	t	173	GLN
5	t	192	HIS
5	t	285	GLN
5	u	39	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	u	50	GLN
5	u	88	HIS
5	u	171	GLN
5	u	191	GLN
5	u	257	GLN
5	u	258	HIS
1	v	34	HIS
1	v	198	ASN
1	w	198	ASN
1	w	256	HIS
1	x	34	HIS
1	x	177	ASN
1	x	187	ASN
1	x	198	ASN
1	y	120	HIS
1	y	150	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

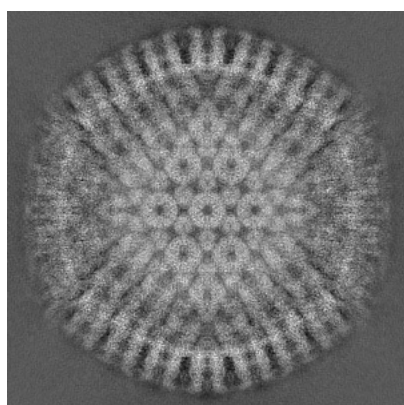
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8703. These allow visual inspection of the internal detail of the map and identification of artifacts.

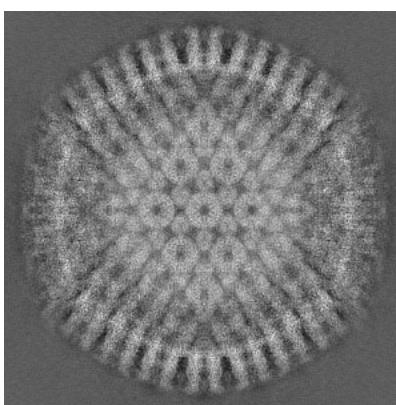
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

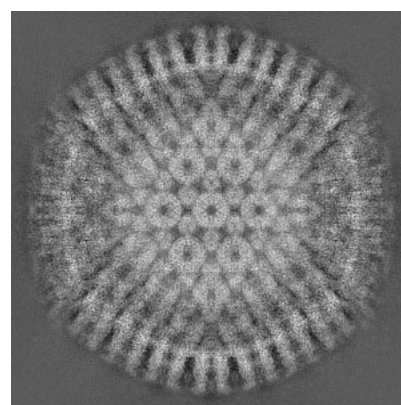
6.1.1 Primary map



X



Y

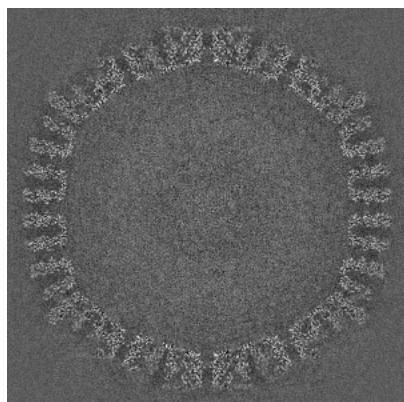


Z

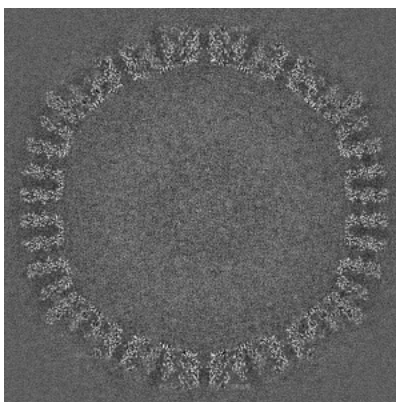
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

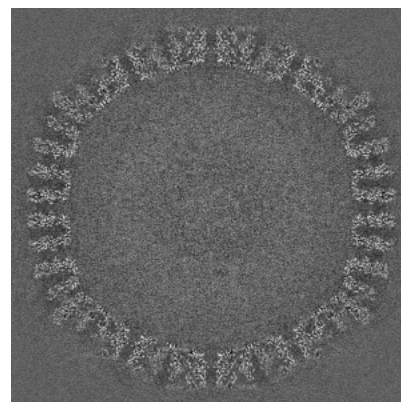
6.2.1 Primary map



X Index: 420



Y Index: 420

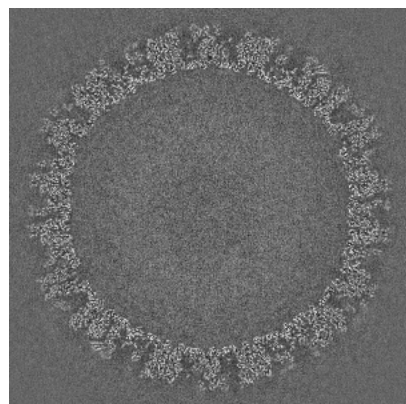


Z Index: 420

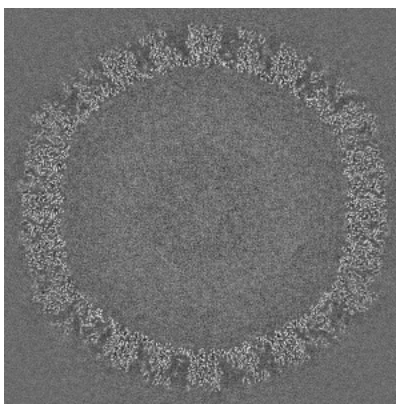
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

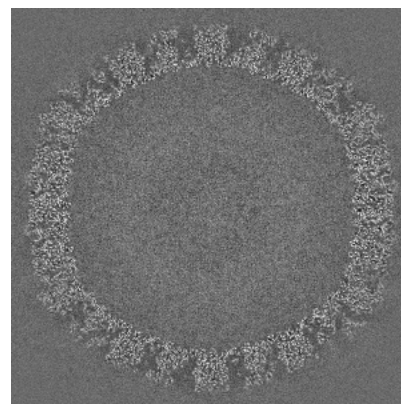
6.3.1 Primary map



X Index: 352



Y Index: 401

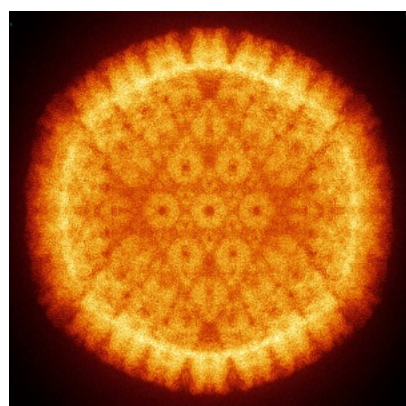


Z Index: 439

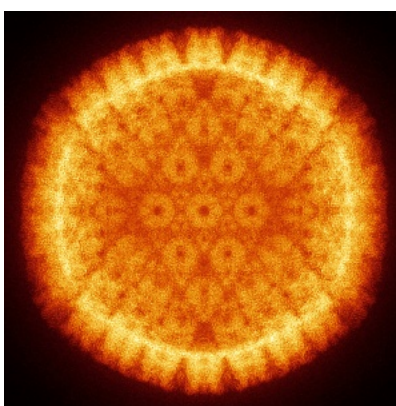
The images above show the largest variance slices of the map in three orthogonal directions.

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

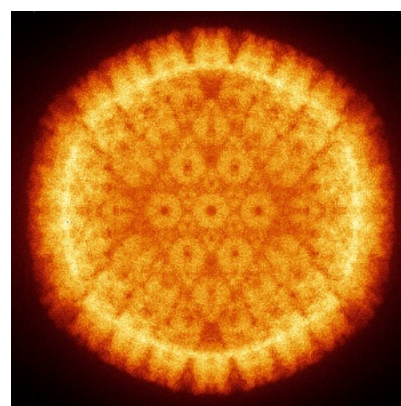
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.05. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

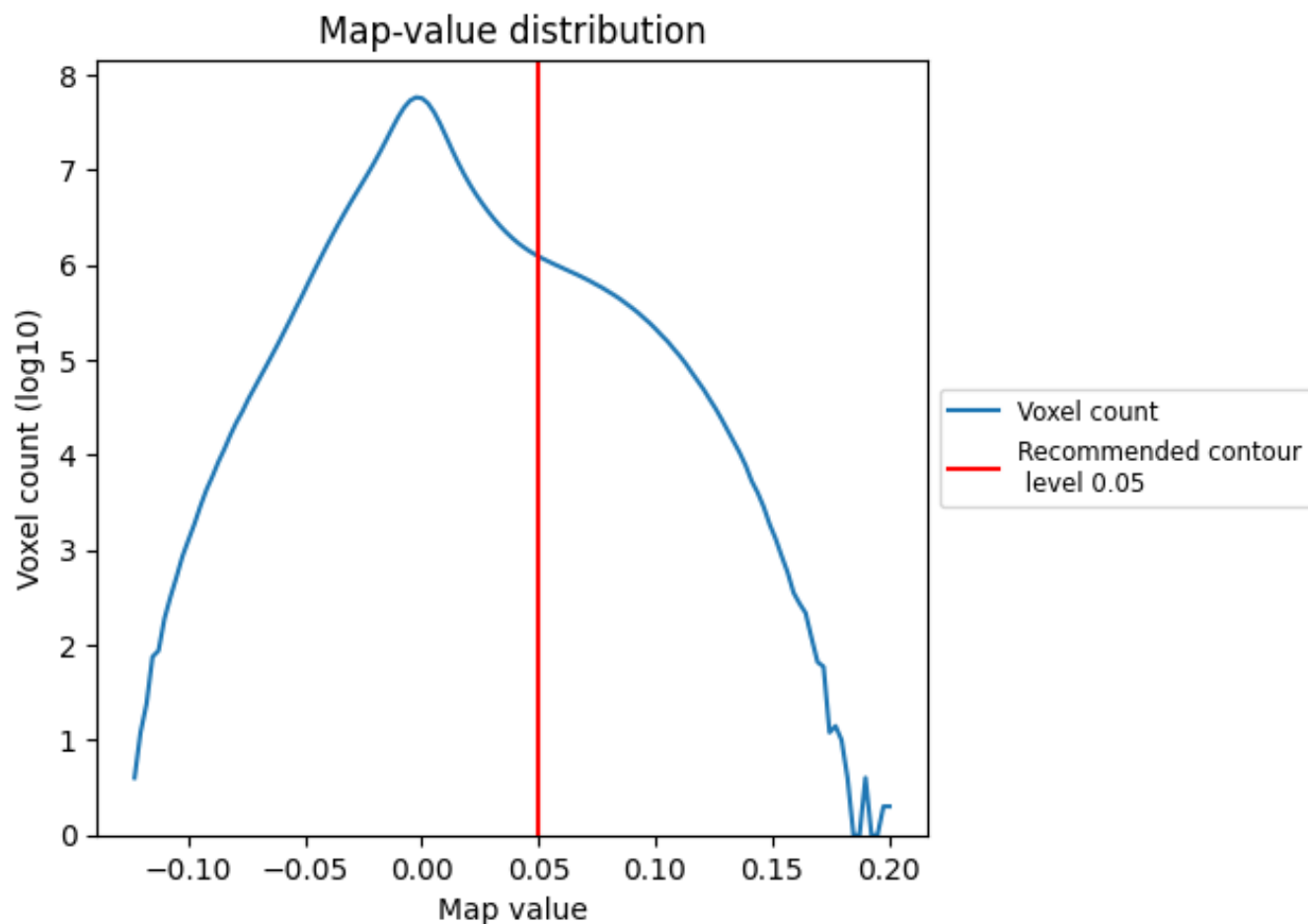
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

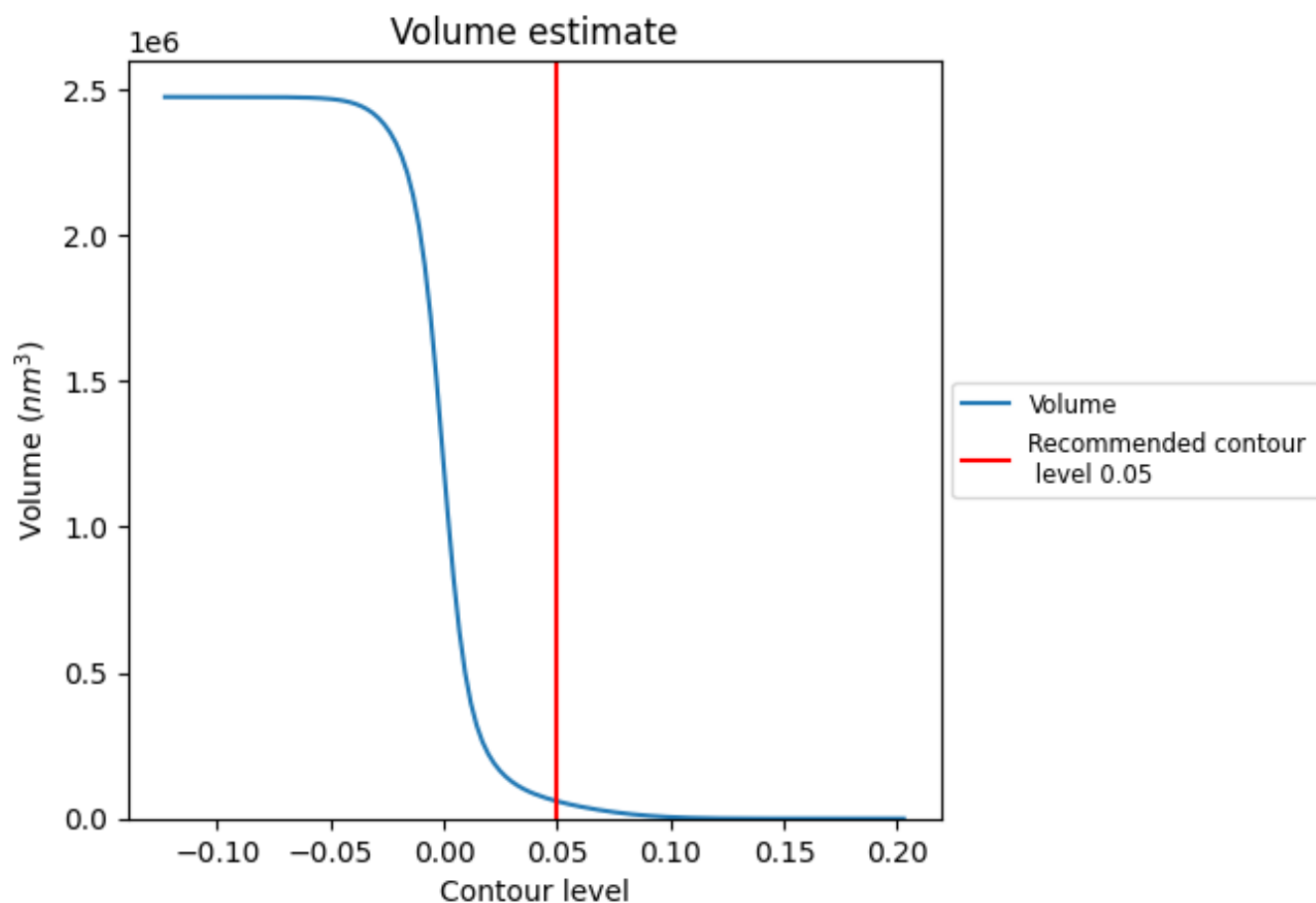
This section contains the results of statistical analysis of the map.

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.

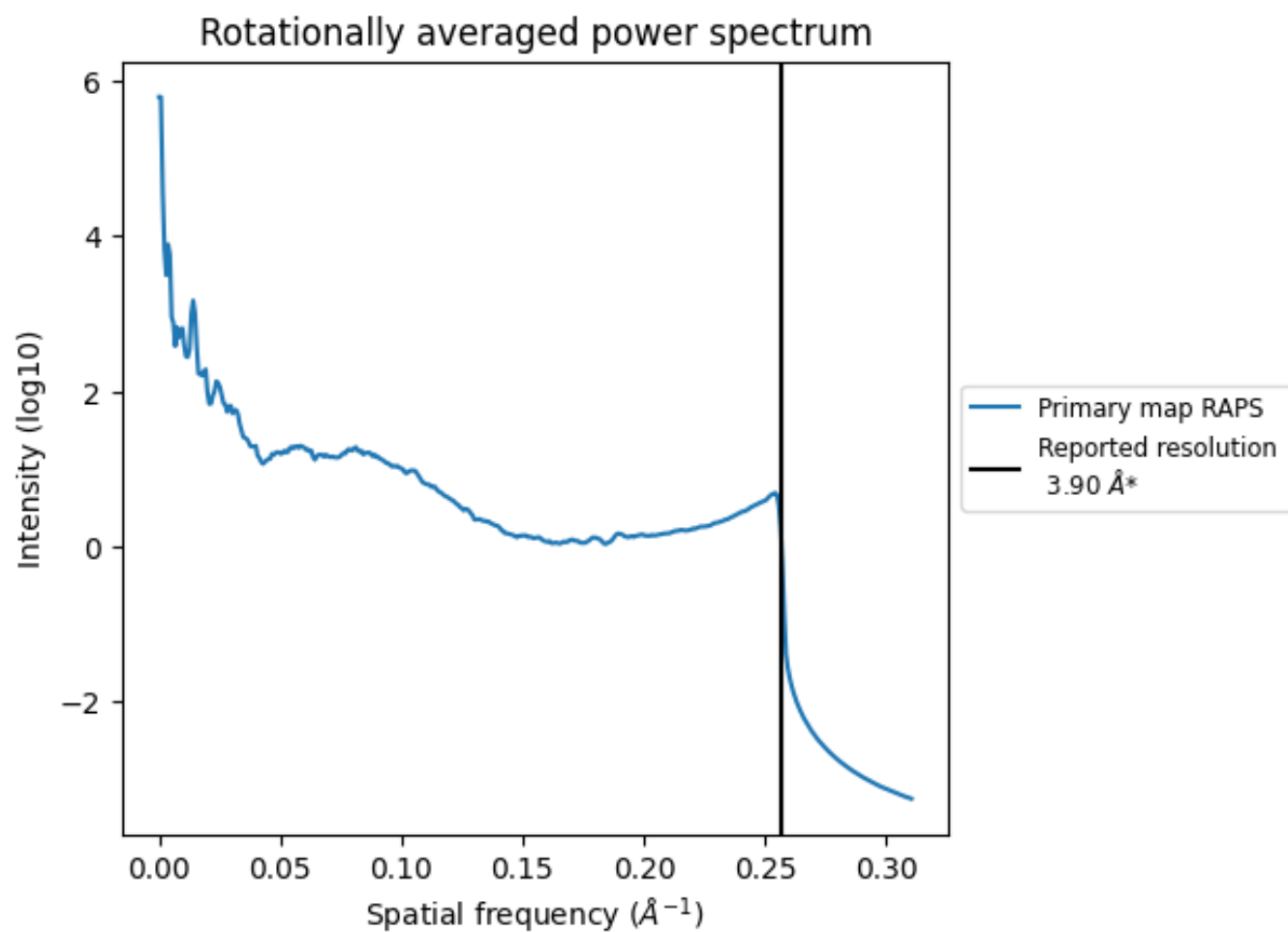
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 59607 nm³; this corresponds to an approximate mass of 53844 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 0.256 Å⁻¹

8 Fourier-Shell correlation

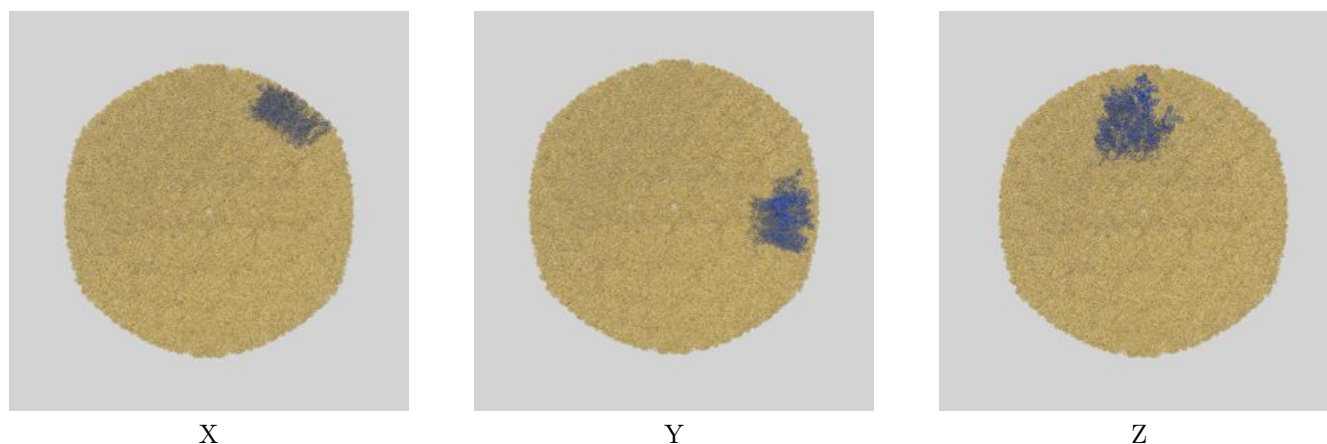
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

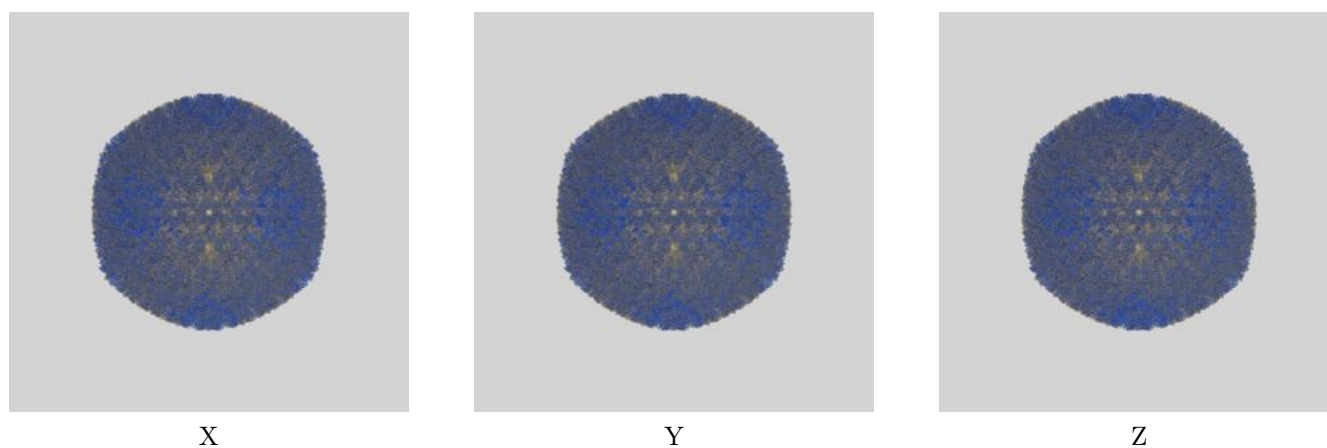
This section contains information regarding the fit between EMDB map EMD-8703 and PDB model 5VKU. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

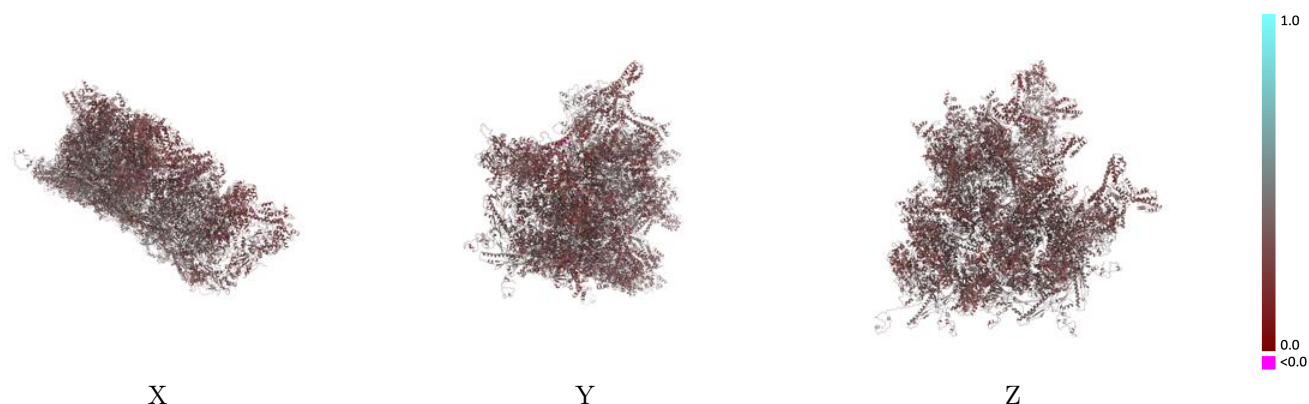


9.1.2 Map-model assembly overlay [i](#)



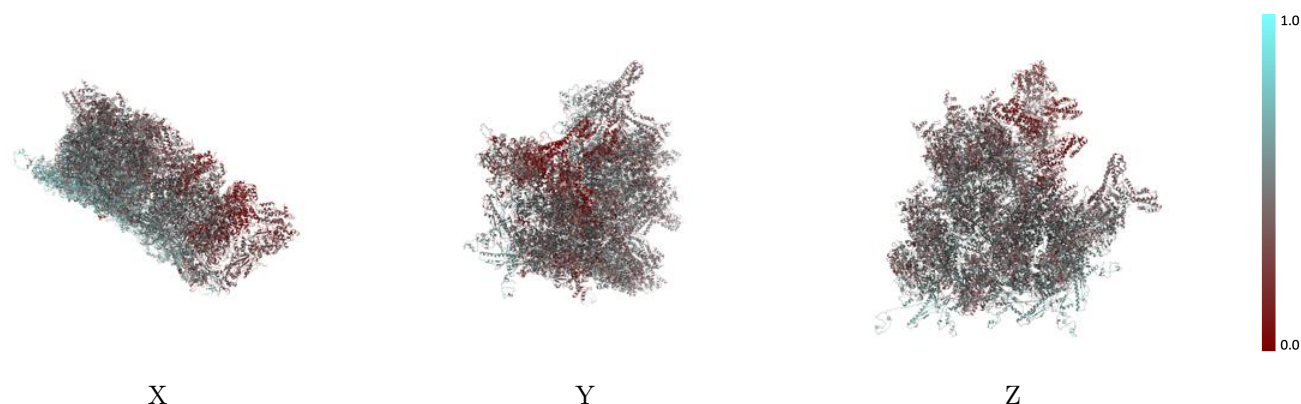
The images above show the 3D surface view of the map at the recommended contour level 0.05 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



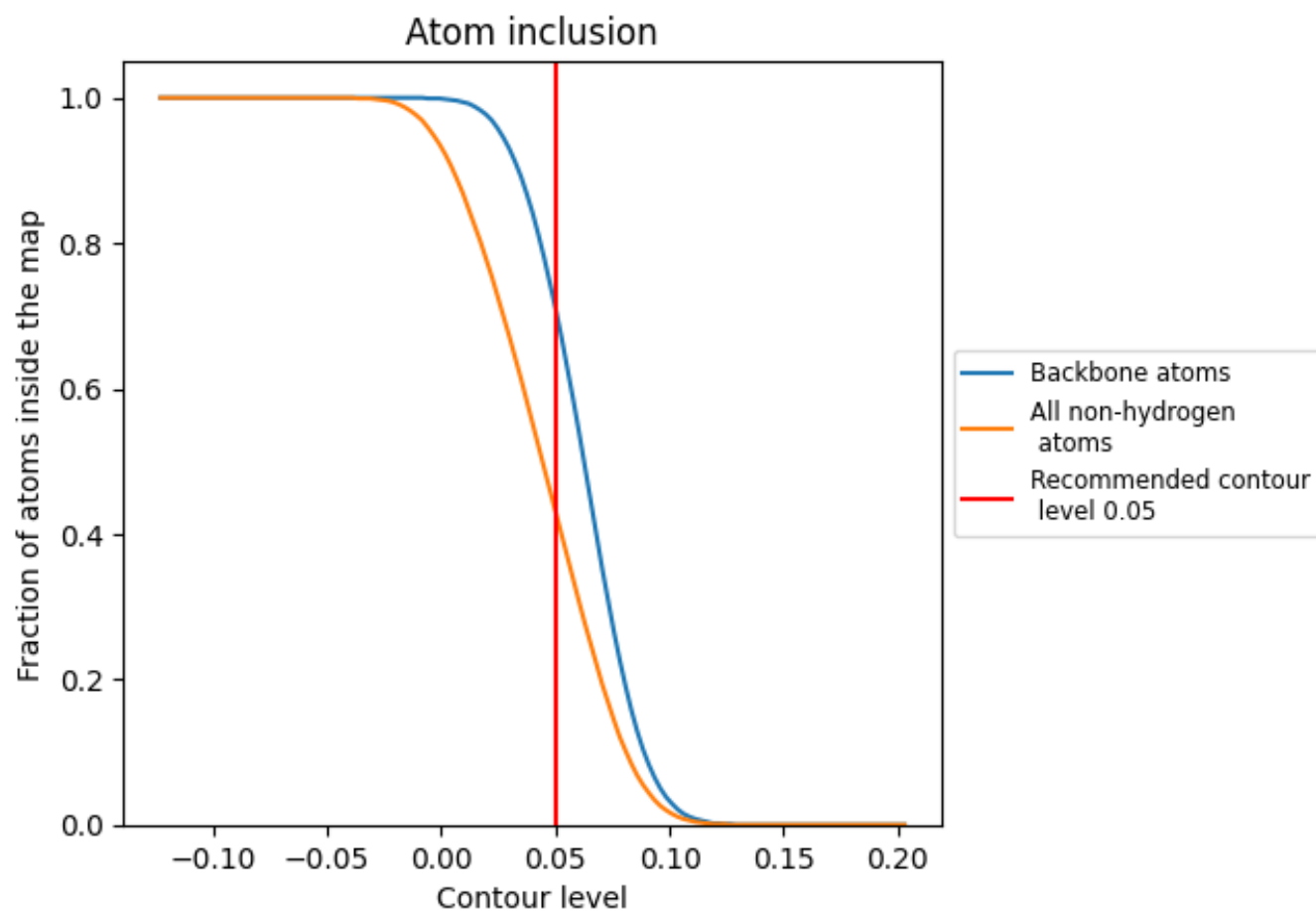
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.05).

9.4 Atom inclusion [i](#)



At the recommended contour level, 71% of all backbone atoms, 43% 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 (0.05) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4310	 0.3470
0	 0.3760	 0.3020
1	 0.3730	 0.3070
2	 0.1320	 0.2890
3	 0.2690	 0.2770
4	 0.4040	 0.3190
5	 0.3450	 0.2850
6	 0.3680	 0.3050
7	 0.4100	 0.3090
8	 0.3800	 0.3030
9	 0.3770	 0.3140
A	 0.3050	 0.3280
B	 0.4120	 0.3430
C	 0.4470	 0.3540
D	 0.4700	 0.3600
E	 0.4720	 0.3630
F	 0.4490	 0.3580
G	 0.4130	 0.3450
H	 0.4860	 0.3590
I	 0.4920	 0.3670
J	 0.4900	 0.3660
K	 0.4940	 0.3690
L	 0.4950	 0.3710
M	 0.4800	 0.3610
N	 0.4910	 0.3670
O	 0.4950	 0.3670
P	 0.4940	 0.3650
Q	 0.1730	 0.2680
R	 0.2630	 0.2730
S	 0.3050	 0.2750
T	 0.3330	 0.2920
U	 0.3330	 0.2860
V	 0.3250	 0.2910
W	 0.2850	 0.2920
X	 0.3710	 0.2930



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Y	 0.3760	 0.3030
Z	 0.3920	 0.3170
a	 0.3730	 0.3000
b	 0.3760	 0.2850
c	 0.3590	 0.2890
d	 0.3880	 0.3160
e	 0.3800	 0.3000
f	 0.3670	 0.2860
g	 0.2420	 0.3340
h	 0.2850	 0.3180
i	 0.2500	 0.3320
j	 0.4910	 0.3740
k	 0.4690	 0.3600
l	 0.4500	 0.3620
m	 0.4580	 0.3500
n	 0.4450	 0.3520
o	 0.4500	 0.3530
p	 0.4770	 0.3570
q	 0.4690	 0.3630
r	 0.4660	 0.3550
s	 0.4890	 0.3710
t	 0.4800	 0.3690
u	 0.4590	 0.3580
v	 0.0800	 0.2740
w	 0.0930	 0.2480
x	 0.2160	 0.2720
y	 0.3910	 0.3270
z	 0.3850	 0.3050