



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 02:47 PM BST

PDB ID : 4V4B
EMDB ID: : EMD-1067
Title : Structure of the ribosomal 80S-eEF2-sordarin complex from yeast obtained by docking atomic models for RNA and protein components into a 11.7 Å cryo-EM map.
Authors : Spahn, C.M.; Gomez-Lorenzo, M.G.; Grassucci, R.A.; Jorgensen, R.; Andersen, G.R.; Beckmann, R.; Penczek, P.A.; Ballesta, J.P.G.; Frank, J.
Deposited on : 2004-01-06
Resolution : 11.70 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

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

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

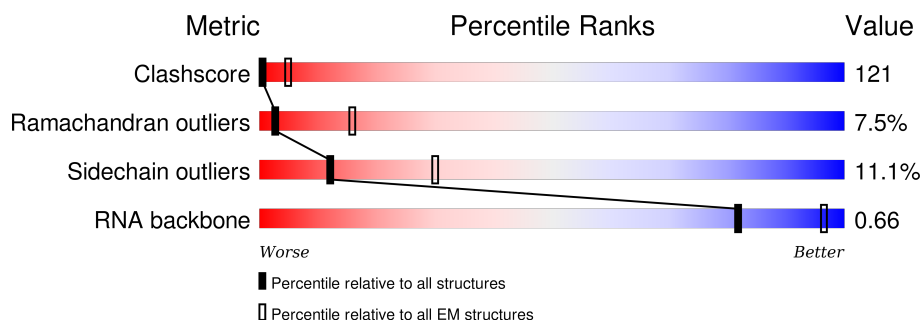
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 11.70 Å.

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



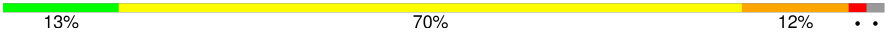
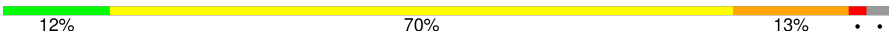
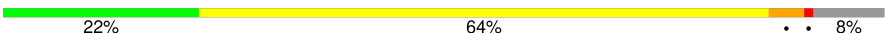


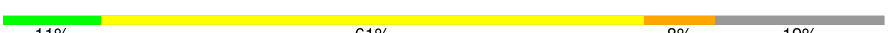
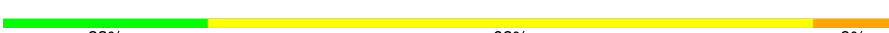




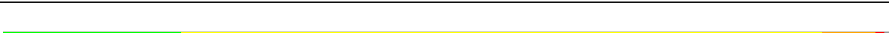













Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686
RNA backbone	3027	244

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	AA	1507	25% 57% 12% . .
2	AT	842	62% 33% . .
3	AB	185	23% 69% 7% .
4	AC	192	27% 60% 11% . .
5	AD	179	18% 72% 9% .
6	AE	149	24% 70% 5%
7	AG	150	25% 67% 8%
8	AH	129	19% 71% 8% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
9	AI	142	
10	AJ	100	
11	AK	136	
12	AL	118	
13	AM	132	
14	AN	36	
15	AO	65	
16	AQ	76	
17	AS	80	
18	B3	2999	
19	B4	125	
20	BA	217	
21	BB	253	
22	BC	386	
23	BD	361	
24	BE	222	
25	BF	162	
26	BG	119	
27	BH	191	
28	BI	168	
29	BJ	173	
30	BK	131	
31	BL	203	
32	BM	146	
33	BN	183	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
34	BO	120	
35	BP	142	
36	BQ	100	
37	BR	137	
38	BS	56	
39	BT	83	
40	BU	126	
41	BV	148	
42	B0	130	
43	BW	112	
44	BX	120	
45	BY	87	
46	BZ	105	
47	B9	91	

2 Entry composition

There are 47 unique types of molecules in this entry. The entry contains 146792 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 RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	1466	Total	C	N	O	P	0	0
			31507	14026	5840	10176	1465		

- Molecule 2 is a protein called Elongation factor 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AT	819	Total	C	N	O	S	0	0
			6375	4057	1086	1202	30		

- Molecule 3 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AB	185	Total	C	N	O	S	0	0
			1438	919	261	256	2		

- Molecule 4 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AC	188	Total	C	N	O	S	0	0
			1469	929	271	263	6		

- Molecule 5 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AD	178	Total	C	N	O	S	0	0
			1424	893	271	259	1		

- Molecule 6 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AE	149	Total	C	N	O	S	0	0
			1099	691	206	200	2		

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AG	150	Total	C	N	O	S	0	0
			1161	714	229	215	3		

- Molecule 8 is a protein called 40S ribosomal protein S22.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AH	127	Total	C	N	O	S	0	0
			1004	640	183	178	3		

- Molecule 9 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	AI	139	Total	C	N	O	0	0
			1094	700	201	193		

- Molecule 10 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AJ	97	Total	C	N	O	S	0	0
			777	492	141	143	1		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AJ	?	-	VAL	DELETION	UNP P38701

- Molecule 11 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AK	125	Total	C	N	O	S	0	0
			925	566	181	175	3		

- Molecule 12 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AL	118	Total	C	N	O	S	0	0
			906	579	166	159	2		

- Molecule 13 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AM	131	Total	C	N	O	S	0	0
			1084	675	218	189	2		

- Molecule 14 is a protein called 40S ribosomal protein S29-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AN	29	Total	C	N	O	S	0	0
			235	141	48	42	4		

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AO	65	Total	C	N	O	S	0	0
			552	353	107	91	1		

- Molecule 16 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AQ	76	Total	C	N	O	S	0	0
			618	396	120	100	2		

- Molecule 17 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AS	80	Total	C	N	O	S	0	0
			622	398	110	108	6		

- Molecule 18 is a RNA chain called 5.8S/25S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	B3	2863	Total	C	N	O	P	0	69
			59964	26726	11030	19346	2862		

There are 144 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B3	73	C	U	CONFLICT	GB 3377778
B3	74	A	G	CONFLICT	GB 3377778
B3	103	U	C	CONFLICT	GB 3377778
B3	104	G	A	CONFLICT	GB 3377778
B3	?	-	U	DELETION	GB 3377778
B3	?	-	C	DELETION	GB 3377778

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B3	130	C	-	INSERTION	GB 3377778
B3	131B	U	-	INSERTION	GB 3377778
B3	200	U	C	CONFLICT	GB 3377778
B3	300	C	U	CONFLICT	GB 3377778
B3	301	G	C	CONFLICT	GB 3377778
B3	318	C	U	CONFLICT	GB 3377778
B3	350	C	G	CONFLICT	GB 3377778
B3	351	G	A	CONFLICT	GB 3377778
B3	363	A	C	CONFLICT	GB 3377778
B3	364	C	U	CONFLICT	GB 3377778
B3	560	C	U	CONFLICT	GB 3377778
B3	574	C	G	CONFLICT	GB 3377778
B3	575	G	A	CONFLICT	GB 3377778
B3	582	C	U	CONFLICT	GB 3377778
B3	583	G	C	CONFLICT	GB 3377778
B3	653	C	U	CONFLICT	GB 3377778
B3	972	C	-	INSERTION	GB 3377778
B3	973	U	-	INSERTION	GB 3377778
B3	974	A	-	INSERTION	GB 3377778
B3	976Z	G	-	INSERTION	GB 3377778
B3	976	G	-	INSERTION	GB 3377778
B3	977	G	-	INSERTION	GB 3377778
B3	978	G	-	INSERTION	GB 3377778
B3	979	G	-	INSERTION	GB 3377778
B3	980	C	-	INSERTION	GB 3377778
B3	981	C	-	INSERTION	GB 3377778
B3	982	C	-	INSERTION	GB 3377778
B3	983	A	-	INSERTION	GB 3377778
B3	984	C	-	INSERTION	GB 3377778
B3	985	C	-	INSERTION	GB 3377778
B3	986	A	-	INSERTION	GB 3377778
B3	987	G	-	INSERTION	GB 3377778
B3	988	C	-	INSERTION	GB 3377778
B3	989	C	-	INSERTION	GB 3377778
B3	990	U	-	INSERTION	GB 3377778
B3	991	A	-	INSERTION	GB 3377778
B3	992	C	-	INSERTION	GB 3377778
B3	993	C	-	INSERTION	GB 3377778
B3	994	A	-	INSERTION	GB 3377778
B3	995	A	-	INSERTION	GB 3377778
B3	1026	C	U	CONFLICT	GB 3377778
B3	1162	U	G	CONFLICT	GB 3377778

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B3	1165	U	G	CONFLICT	GB 3377778
B3	1166	G	A	CONFLICT	GB 3377778
B3	1180	C	U	CONFLICT	GB 3377778
B3	1182	U	C	CONFLICT	GB 3377778
B3	1184	A	C	CONFLICT	GB 3377778
B3	1186	U	C	CONFLICT	GB 3377778
B3	1190	A	G	CONFLICT	GB 3377778
B3	1191	G	A	CONFLICT	GB 3377778
B3	1193	G	A	CONFLICT	GB 3377778
B3	1194	U	A	CONFLICT	GB 3377778
B3	1206	C	U	CONFLICT	GB 3377778
B3	1320	U	C	CONFLICT	GB 3377778
B3	1326	U	C	CONFLICT	GB 3377778
B3	1329	A	G	CONFLICT	GB 3377778
B3	1331	A	G	CONFLICT	GB 3377778
B3	1337	A	G	CONFLICT	GB 3377778
B3	1479	A	G	CONFLICT	GB 3377778
B3	1480	U	A	CONFLICT	GB 3377778
B3	1496	G	A	CONFLICT	GB 3377778
B3	1587	U	A	CONFLICT	GB 3377778
B3	1669	A	G	CONFLICT	GB 3377778
B3	1670	G	A	CONFLICT	GB 3377778
B3	1949	C	G	CONFLICT	GB 3377778
B3	1950	C	G	CONFLICT	GB 3377778
B3	1959	A	G	CONFLICT	GB 3377778
B3	1962	G	C	CONFLICT	GB 3377778
B3	1963	G	C	CONFLICT	GB 3377778
B3	1966	C	U	CONFLICT	GB 3377778
B3	2137	U	A	CONFLICT	GB 3377778
B3	2139	U	G	CONFLICT	GB 3377778
B3	3145	G	-	INSERTION	GB 3377778
B3	2146	G	-	INSERTION	GB 3377778
B3	2147	G	-	INSERTION	GB 3377778
B3	2148	G	-	INSERTION	GB 3377778
B3	2149	A	-	INSERTION	GB 3377778
B3	2150	U	-	INSERTION	GB 3377778
B3	2151	G	-	INSERTION	GB 3377778
B3	2152	C	-	INSERTION	GB 3377778
B3	2153	G	-	INSERTION	GB 3377778
B3	2154	U	-	INSERTION	GB 3377778
B3	2155	A	-	INSERTION	GB 3377778
B3	2156	G	-	INSERTION	GB 3377778

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B3	2157	G	-	INSERTION	GB 3377778
B3	2158	A	-	INSERTION	GB 3377778
B3	2159	U	-	INSERTION	GB 3377778
B3	2160	A	-	INSERTION	GB 3377778
B3	2161	G	-	INSERTION	GB 3377778
B3	2162	G	-	INSERTION	GB 3377778
B3	2163	U	-	INSERTION	GB 3377778
B3	2164	G	-	INSERTION	GB 3377778
B3	2165	G	-	INSERTION	GB 3377778
B3	2166	G	-	INSERTION	GB 3377778
B3	2167	A	-	INSERTION	GB 3377778
B3	2168	G	-	INSERTION	GB 3377778
B3	2169	C	-	INSERTION	GB 3377778
B3	2170	G	-	INSERTION	GB 3377778
B3	2171	C	-	INSERTION	GB 3377778
B3	2203	A	-	INSERTION	GB 3377778
B3	2204	A	-	INSERTION	GB 3377778
B3	2205	G	-	INSERTION	GB 3377778
B3	2206	C	-	INSERTION	GB 3377778
B3	2207	G	-	INSERTION	GB 3377778
B3	2208	C	-	INSERTION	GB 3377778
B3	2209	C	-	INSERTION	GB 3377778
B3	2210	G	-	INSERTION	GB 3377778
B3	2211	G	-	INSERTION	GB 3377778
B3	2212	U	-	INSERTION	GB 3377778
B3	2213	G	-	INSERTION	GB 3377778
B3	2214	A	-	INSERTION	GB 3377778
B3	2215	A	-	INSERTION	GB 3377778
B3	2216	A	-	INSERTION	GB 3377778
B3	2217	U	-	INSERTION	GB 3377778
B3	2218	A	-	INSERTION	GB 3377778
B3	2219	C	-	INSERTION	GB 3377778
B3	2220	C	-	INSERTION	GB 3377778
B3	2221	A	-	INSERTION	GB 3377778
B3	2222	C	-	INSERTION	GB 3377778
B3	2223	C	-	INSERTION	GB 3377778
B3	2224	C	-	INSERTION	GB 3377778
B3	2225	U	-	INSERTION	GB 3377778
B3	2226	U	-	INSERTION	GB 3377778
B3	2227	C	-	INSERTION	GB 3377778
B3	2228	C	-	INSERTION	GB 3377778
B3	2229	C	-	INSERTION	GB 3377778

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B3	2230	C	-	INSERTION	GB 3377778
B3	2231	G	-	INSERTION	GB 3377778
B3	2232	G	-	INSERTION	GB 3377778
B3	2233	C	-	INSERTION	GB 3377778
B3	2234	U	-	INSERTION	GB 3377778
B3	2235	G	-	INSERTION	GB 3377778
B3	2236	G	-	INSERTION	GB 3377778
B3	2325	C	U	CONFLICT	GB 3377778
B3	2326	U	C	CONFLICT	GB 3377778
B3	2341	G	A	CONFLICT	GB 3377778
B3	2374	A	G	CONFLICT	GB 3377778
B3	2375	G	A	CONFLICT	GB 3377778

- Molecule 19 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	B4	122	Total	C	N	O	P	0	0
			2600	1160	472	847	121		

- Molecule 20 is a protein called 60S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	BA	213	Total	C	N	O	S	0	0
			1682	1074	294	305	9		

- Molecule 21 is a protein called 60S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	BB	244	Total	C	N	O	S	0	0
			1855	1156	375	323	1		

- Molecule 22 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	BC	359	Total	C	N	O	S	0	0
			2856	1813	541	495	7		

- Molecule 23 is a protein called 60S ribosomal protein L4-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	BD	256	Total	C	N	O	S	0	0
			1942	1221	374	344	3		

- Molecule 24 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	BE	222	Total	C	N	O	S	0	0
			1799	1140	312	345	2		

- Molecule 25 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	BF	161	Total	C	N	O	S	0	0
			1298	854	228	215	1		

- Molecule 26 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	BG	119	Total	C	N	O	S	0	0
			886	566	152	166	2		

- Molecule 27 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	BH	178	Total	C	N	O	S	0	0
			1410	892	259	256	3		

- Molecule 28 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	BI	165	Total	C	N	O	S	0	0
			1326	834	257	228	7		

- Molecule 29 is a protein called 60S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	BJ	165	Total	C	N	O	S	0	0
			1319	826	247	242	4		

- Molecule 30 is a protein called 60S ribosomal protein L12.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	BK	131	Total	C	N	O	S	0	0
			978	613	181	182	2		

- Molecule 31 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	BL	194	Total	C	N	O	S	0	0
			1637	1022	344	270	1		

- Molecule 32 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	BM	146	Total	C	N	O	S	0	0
			1165	754	221	189	1		

- Molecule 33 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	BN	147	Total	C	N	O		0	0
			1163	725	226	212			

- Molecule 34 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BO	120	Total	C	N	O	S	0	0
			925	595	169	160	1		

- Molecule 35 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BP	141	Total	C	N	O		0	0
			1145	714	242	189			

- Molecule 36 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BQ	97	Total	C	N	O	S	0	0
			795	505	153	134	3		

- Molecule 37 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BR	131	Total	C	N	O	S	0	0
			977	614	183	173	7		

- Molecule 38 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	BS	53	Total	C	N	O	0	0
			439	282	84	73		

- Molecule 39 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BT	77	Total	C	N	O	S	0	0
			614	395	101	116	2		

- Molecule 40 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
40	BU	115	Total	C	N	O	0	0
			911	574	178	159		

- Molecule 41 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BV	143	Total	C	N	O	S	0	0
			1133	723	222	185	3		

- Molecule 42 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	B0	109	Total	C	N	O	S	0	0
			880	555	176	148	1		

- Molecule 43 is a protein called 60S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	BW	78	Total	C	N	O	S	0	0
			654	412	132	109	1		

- Molecule 44 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BX	59	Total	C	N	O	S	0	0
			461	294	82	84	1		

- Molecule 45 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BY	52	Total	C	N	O	S	0	0
			402	245	85	68	4		

- Molecule 46 is a protein called 60S ribosomal protein L42.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BZ	91	Total	C	N	O	S	0	0
			740	466	150	119	5		

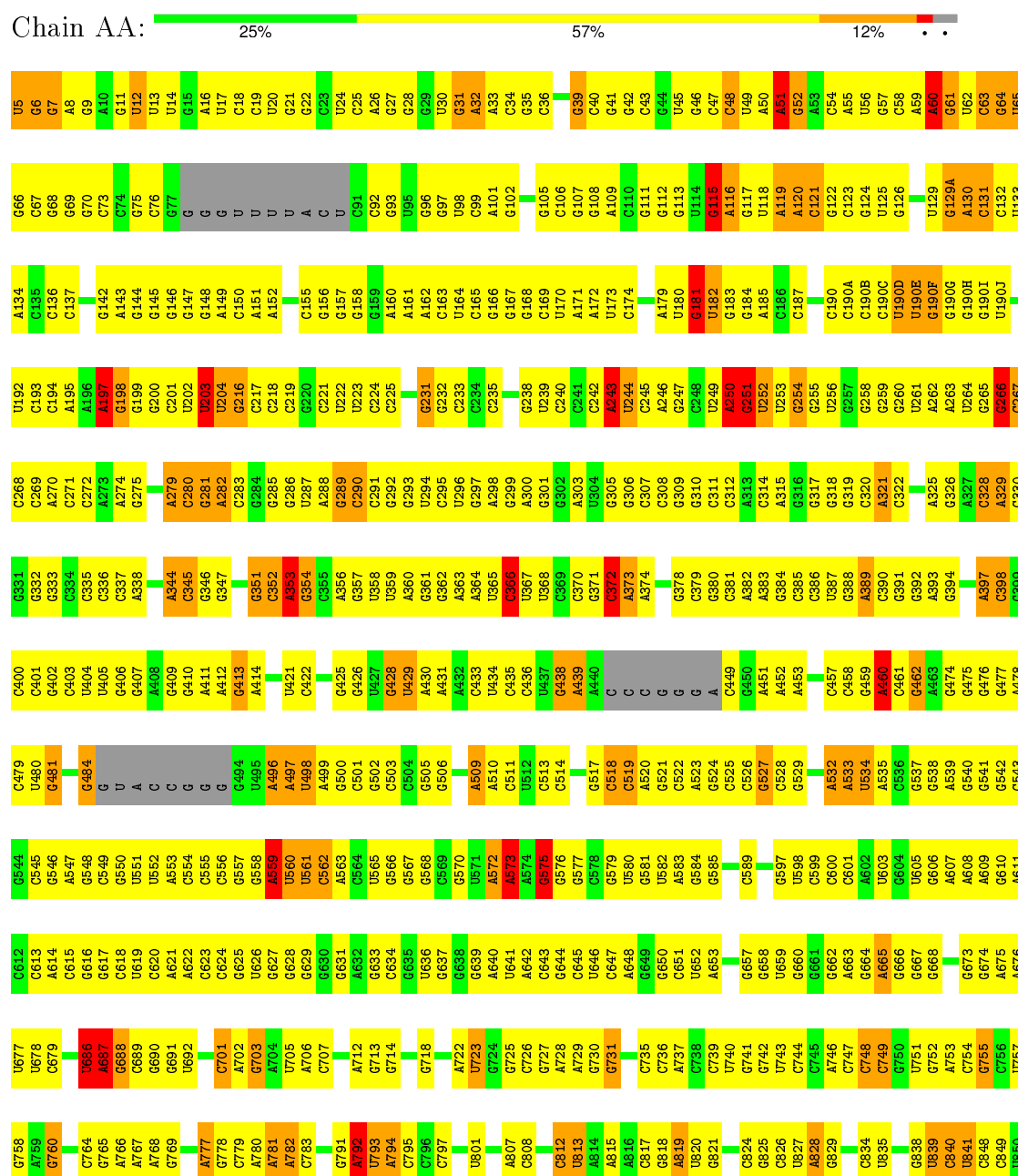
- Molecule 47 is a protein called 60S ribosomal protein L43.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	B9	73	Total	C	N	O	S	0	0
			546	338	105	98	5		

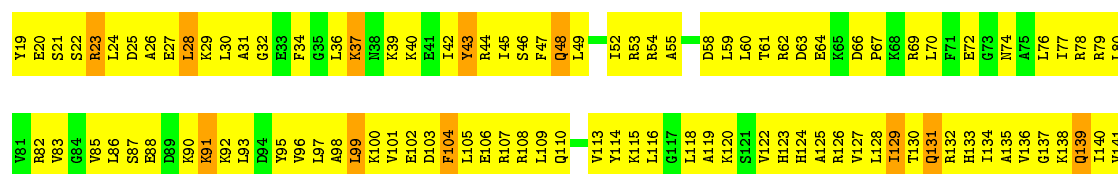
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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: 18S ribosomal RNA



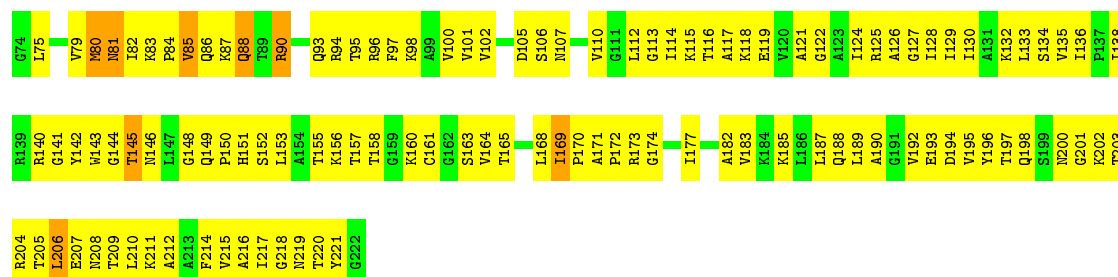
U1194	C1259	G1323	C1389	G1462	G1530	U943	A1004	G1061	A1130	U1194	C1259	G1323	C1389	G1462	G1530	U943	A1004	G1061	A1130
C1195	C1260	A1324	U1390	A1531	A1532	G944	A1005	U1062	G1131	C1195	C1260	A1324	U1390	A1531	A1532	G944	A1005	U1062	G1131
G1196	A1261	C1327	G1391	A1468	A1533	G945	C1006	C1063	G1132	C1196	A1261	C1327	G1391	A1468	A1533	G945	C1006	C1063	G1132
G1197	C1262	C1327	G1392	G1469	A1534	G946	C1007	G1064	G1133	G1197	C1262	C1327	G1392	G1469	A1534	G946	C1007	G1064	G1133
G1198	C1263	C1328	U1393	G1470		G947	G1010	U1065	G1134	G1198	C1263	C1328	U1393	G1470		G947	G1010	U1065	G1134
G1199	C1264	A1329	U1394	G1471		G948	G1011	U1066	G1135	G1199	C1264	A1329	U1394	G1471		G948	G1011	U1066	G1135
G1200	C1265	U1330	C1395	U1472		G949	G1012	U1067	G1136	G1200	C1265	U1330	C1395	U1472		G949	G1012	U1067	G1136
A1201	C1266	G1331	A1396	U1473		G950	G1013	U1068	G1137	A1201	C1266	G1331	A1396	U1473		G950	G1013	U1068	G1137
G1202	C1267	A1332	C1397	G1474		G951	A1014	U1069	G1138	G1202	C1267	A1332	C1397	G1474		G951	A1014	U1069	G1138
C1203	A1268	G1333	A1398	G1475		G952	A1015	U1070	G1139	C1203	A1268	G1333	A1398	G1475		G952	A1015	U1070	G1139
	A1269	G1334	C1399	G1476		G953	A1016	U1071	G1140		A1269	G1334	C1399	G1476		G953	A1016	U1071	G1140
	G1273	C1335				G954	A1017	U1072	G1141		G1273	C1335				G954	A1017	U1072	G1141
	G1276	A1336	C1402	U1481		G955	A1018	U1073	G1142		G1276	A1336	C1402	U1481		G955	A1018	U1073	G1142
	C1277	A1339	C1403	G1482		G956	A1019	U1074	G1143		C1277	A1339	C1403	G1482		G956	A1019	U1074	G1143
	A1278	A1340	G1404	G1483		G957	A1020	U1075	G1144		A1278	A1340	G1404	G1483		G957	A1020	U1075	G1144
	U1279	G1341	G1405	A1484		G958	U1020	U1076	G1145		U1279	G1341	G1405	A1484		G958	U1020	U1076	G1145
	C1342	U1347	U1406	G1485		G959	G1021	U1077	G1146		C1342	U1347	U1406	G1485		G959	G1021	U1077	G1146
	G1343	G1348	A1407	G1486		G960	G1022	U1078	G1147		G1343	G1348	A1407	G1486		G960	G1022	U1078	G1147
	C1344	G1349	A1408	G1487		G961	G1023	U1079	G1148		C1344	G1349	A1408	G1487		G961	G1023	U1079	G1148
	U1345	U1346	C1411	G1488		G962	U1024	U1080	G1149		U1345	U1346	C1411	G1488		G962	U1024	U1080	G1149
	A1346	G1347	C1412	G1489		G963	U1025	U1081	G1150		A1346	G1347	C1412	G1489		G963	U1025	U1081	G1150
	G1347	A1348	A1413	G1490		G964	U1026	U1082	G1151		G1347	A1348	A1413	G1490		G964	U1026	U1082	G1151
	U1349	U1349	U1414	G1491		G965	U1027	U1083	G1152		U1349	U1349	U1414	G1491		G965	U1027	U1083	G1152
	A1349	A1349	U1415	A1492		G966	U1028	U1084	G1153		A1349	A1349	U1415	A1492		G966	U1028	U1084	G1153
	A1287	A1350	G1415	A1493		G967	U1029	U1085	G1154		A1287	A1350	G1415	A1493		G967	U1029	U1085	G1154
	U1351	U1351	A1418	G1494		G968	U1030	U1086	G1155		U1351	U1351	A1418	G1494		G968	U1030	U1086	G1155
	A1288	U1352	G1419	U1495		G969	U1031	U1087	G1156		A1288	U1352	G1419	U1495		G969	U1031	U1087	G1156
	A1289	G1353	G1420	A1496		G970	U1032	U1088	G1157		A1289	G1353	G1420	A1496		G970	U1032	U1088	G1157
	G1291	C1354	U1354	G1497		G971	U1033	U1089	G1158		G1291	C1354	U1354	G1497		G971	U1033	U1089	G1158
	U1292	G1355	G1355	U1498		G972	U1034	U1090	G1159		U1292	G1355	G1355	U1498		G972	U1034	U1090	G1159
	C1293	G1356	U1357	A1500		G973	U1035	U1091	G1160		C1293	G1356	U1357	A1500		G973	U1035	U1091	G1160
	C1296	G1358	U1358	A1501		G974	U1036	U1092	G1161		C1296	G1358	U1358	A1501		G974	U1036	U1092	G1161
	C1297	C1359	U1427	A1502		G975	U1037	U1093	G1162		C1297	C1359	U1427	A1502		G975	U1037	U1093	G1162
	C1298	A1360	A1428	A1503		G976	U1038	U1094	G1163		C1298	A1360	A1428	A1503		G976	U1038	U1094	G1163
	A1299		C1429	G1504		G977	U1039	U1095	G1164		A1299		C1429	G1504		G977	U1039	U1095	G1164
	G1300	C1362	C1430	U1505		G978	U1040	U1096	G1165		G1300	C1362	C1430	U1505		G978	U1040	U1096	G1165
	U1301	A1363	C1431	U1506		G979	U1041	U1097	G1166		U1301	A1363	C1431	U1506		G979	U1041	U1097	G1166
	U1302	U1364	G1432	G1507		G980	U1042	U1098	G1167		U1302	U1364	G1432	G1507		G980	U1042	U1098	G1167
	C1303	G1365	A1433	G1508		G981	U1043	U1099	G1168		C1303	G1365	A1433	G1508		G981	U1043	U1099	G1168
	G1304	C1366	U1434	U1509		G982	U1044	U1100	G1169		G1304	C1366	U1434	U1509		G982	U1044	U1100	G1169
	G1305	C1367	G1435	U1510		G983	U1045	U1101	G1170		G1305	C1367	G1435	U1510		G983	U1045	U1101	G1170
	A1306	G1368	U1436	U1511		G984	U1046	U1102	G1171		A1306	G1368	U1436	U1511		G984	U1046	U1102	G1171
	U1307	C1369	C1437	U1512		G985	U1047	U1103	G1172		U1307	C1369	C1437	U1512		G985	U1047	U1103	G1172
	U1308	G1370	G1438	U1513		G986	U1048	U1104	G1173		U1308	G1370	G1438	U1513		G986	U1048	U1104	G1173
	U1309	G1371	C1439	U1514		G987	U1049	U1105	G1174		U1309	G1371	C1439	U1514		G987	U1049	U1105	G1174
	G1310	U1372	G1440	U1515		G988	U1050	U1106	G1175		G1310	U1372	G1440	U1515		G988	U1050	U1106	G1175
	G1311	G1373	G1441	G1516		G989	U1051	U1107	G1176		G1311	G1373	G1441	G1516		G989	U1051	U1107	G1176
	G1312	A1374	G1442	U1517		G990	U1052	U1108	G1177		G1312	A1374	G1442	U1517		G990	U1052	U1108	G1177
	U1313	G1375	G1443	U1518		G991	U1053	U1109	G1178		U1313	G1375	G1443	U1518		G991	U1053	U1109	G1178
	C1314	U1376	A1446	U1519		G992	U1054	U1110	G1179		C1314	U1376	A1446	U1519		G992	U1054	U1110	G1179
	U1315	A1377	G1447	U1520		G993	U1055	U1111	G1180		U1315	A1377	G1447	U1520		G993	U1055	U1111	G1180
	G1316	C1378	U1450	G1521		G994	U1056	U1112	G1181		G1316	C1378	U1450	G1521		G994	U1056	U1112	G1181
	U1317	U1380	A1451	U1522		G995	U1057	U1113	G1182		U1317	U1380	A1451	U1522		G995	U1057	U1113	G1182
	C1318	U1381	C1452	G1523		G996	U1058	U1114	G1183		C1318	U1381	C1452	G1523		G996	U1058	U1114	G1183
	A1319	C1382	U1453	G1524		G997	U1059	U1115	G1184		A1319	C1382	U1453	G1524		G997	U1059	U1115	G1184
	A1320	G1387	U1460	U1525		G998	U1060	U1116	G1185		A1320	G1387	U1460	U1525		G998	U1060	U1116	G1185
	G1322	C1388	G1461	U1526		G999	U1061	U1117	G1186		G1322	C1388	G1461	U1526		G999	U1061	U1117	G1186
				U1528		G1000	U1062	U1118	G1187					U1528		G1000	U1062	U1118	G1187
				G1529		G1001	U1063	U1119	G1188					G1529		G1001	U1063	U1119	G1188
						G1002	U1064	U1120	G1189							G1002	U1064	U1120	G1189
						G1003	U1065	U1121	G1190							G1003	U1065	U1121	G1190
						G1004	U1066	U1122	G1191							G1004	U1066	U1122	G1191
						G1005	U1067	U1123	G1192							G1005	U1067	U1123	G1192
						G1006	U1068	U1124	G1193							G1006	U1068	U1124	G1193
						G1007	U1069	U1125	G1194							G1007	U1069	U1125	G1194
						G1008	U1070	U1126	G1195							G1008	U1070	U1126	G1195
						G1009	U1071	U1127	G1196							G1009	U1071	U1127	G1196
						G1010	U1072	U1128	G1197							G1010	U1072	U1128	G1197
						G1011	U1073	U1129	G1198							G1011	U1073	U1129	G1198
						G1012	U1074	U1130	G1199							G1012	U1074	U1130	G1199
						G1013	U1075	U1131	G1200							G1013	U1075	U1131	G1200
						G1014	U1076	U1132	G1201							G1014	U1076	U1132	G1201
						G1015	U1077	U1133	G1202							G1015	U1077	U1133	G1202
						G1016	U1078	U1134	G1203							G1016	U1078	U1134	G1203
						G1017	U1079	U1135	G1204							G1017	U1079	U1135	G1204
						G1018	U1080	U1136	G1205							G1018	U1080	U1136	G1205
						G1019	U1081	U1137	G1206	</									





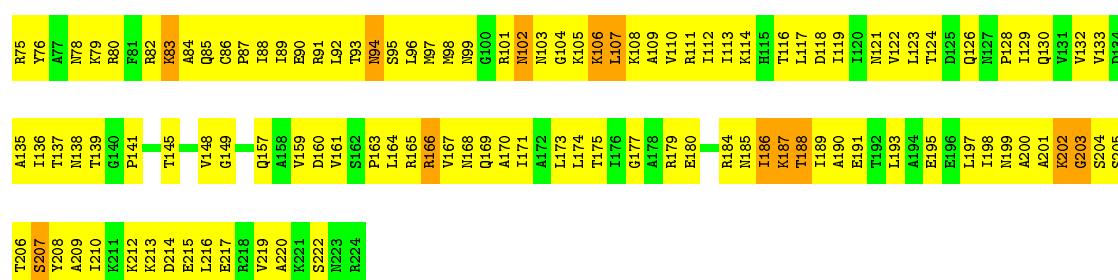
• Molecule 6: 40S ribosomal protein S2

Chain AE: 24% 70% 5%



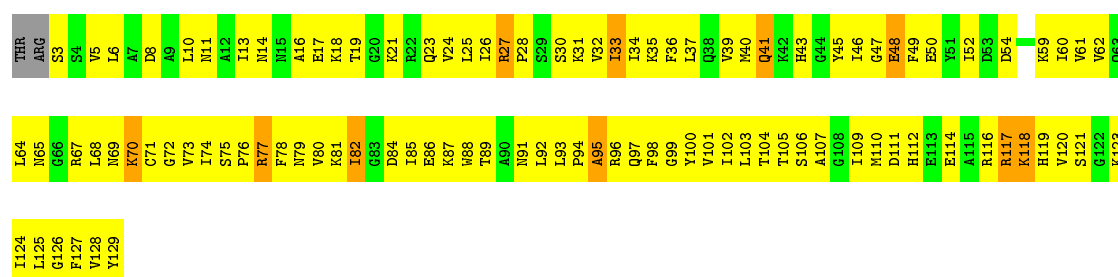
• Molecule 7: 40S ribosomal protein S5

Chain AG: 25% 67% 8%



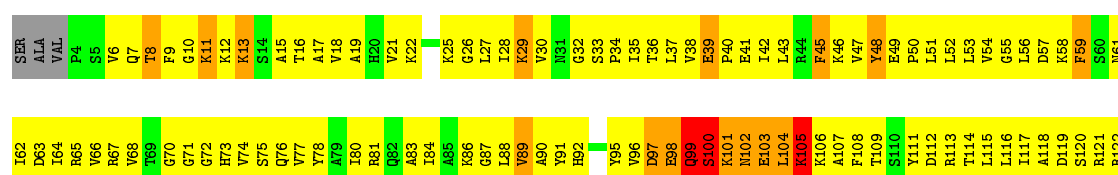
• Molecule 8: 40S ribosomal protein S22

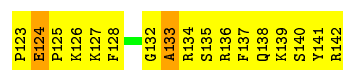
Chain AH: 19% 71% 8%



• Molecule 9: 40S ribosomal protein S16

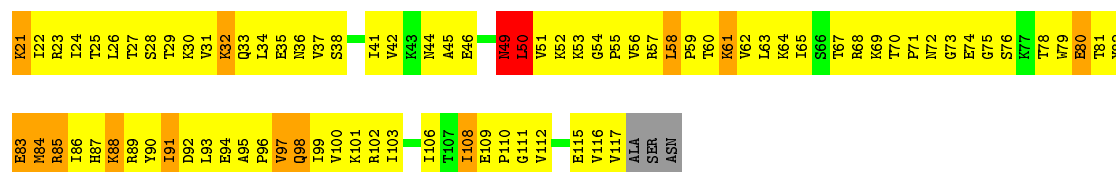
Chain AI: 13% 70% 12%





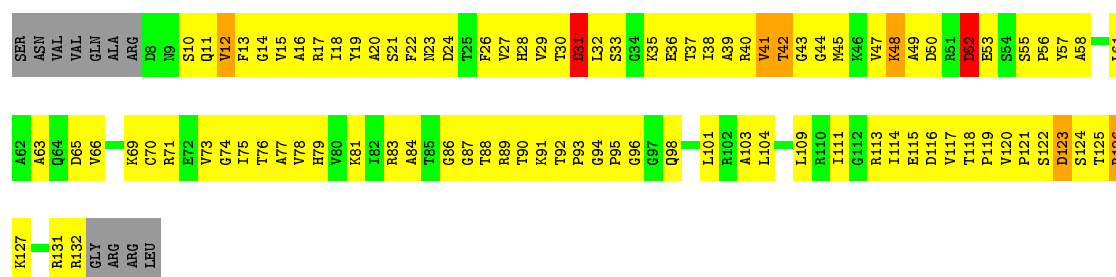
• Molecule 10: 40S ribosomal protein S20

Chain AJ: 12% 70% 13% . .



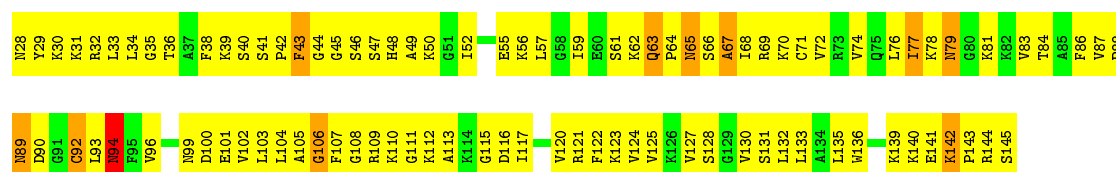
• Molecule 11: 40S ribosomal protein S14-A

Chain AK: 22% 64% . . 8%



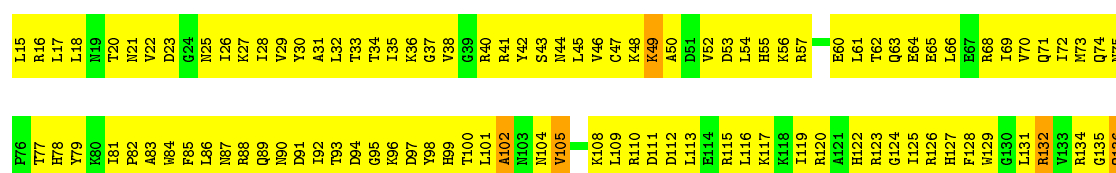
• Molecule 12: 40S ribosomal protein S23

Chain AL: 19% 71% 8% .

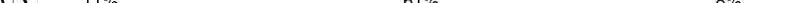


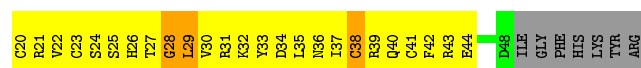
• Molecule 13: 40S ribosomal protein S18

Chain AM: 14% 81% 5% .



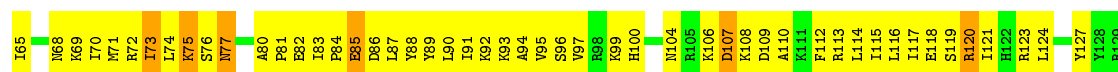
• Molecule 14: 40S ribosomal protein S29-B

Chain AN: 



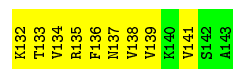
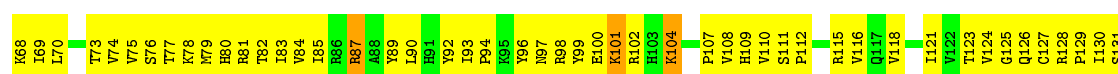
- Molecule 15: 40S ribosomal protein S13

Chain AO: 



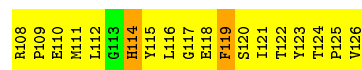
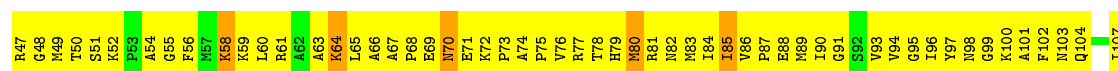
- Molecule 16: 40S ribosomal protein S11

Chain AQ:  24% 72% .



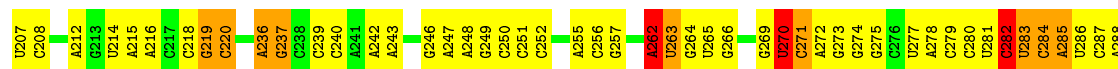
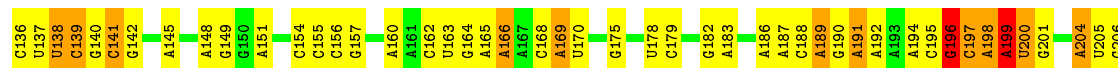
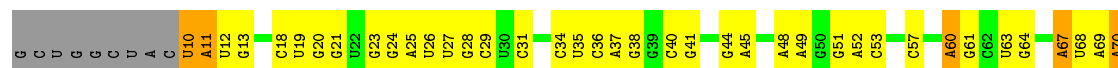
- Molecule 17: 40S ribosomal protein S15

Chain AS: 9% 83% 9%



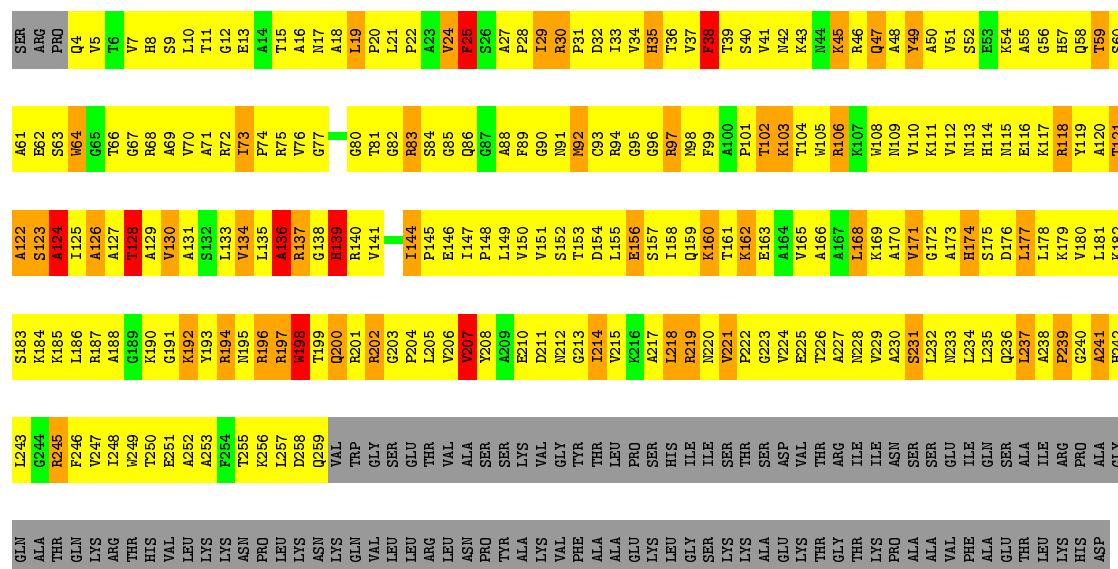
- Molecule 18: 5.8S/25S ribosomal RNA

Chain B3:  33% 52% 9% • 5%



U1473	C1400	U1333	A1259	A1192	A1124	G1052	C	A907	A819	G745	A665	U595	A520	A441	U366
C1474	G1401	C1334	G1260	G1193	U1125	G1053	C	A908	G820	A746	A667	C596	A521	U446	G367
C1477	U1335	U1194	A1261	U1194	C1126	G1054	G	G918	U821	G747	C867	A597	U522	U445	C368
U1478	C1336	C1196	C1263	C1196	U1128	G1055	A	U919	G834	C749	G670	C598	A524	A447	G370
A1485	A1337	U1338	C1267	A1199	U1129	U1056	A	G920	U835	C749	A671	G599	G525	G448	U371
U1408	G1339	C1339	C1268	A1200	U1130	A1058	G	G921	G836	A750	G672	G601	U526	A449	A372
G1409	A1340	C1342	U1269	A1201	G1131	G1059	G	A922	U840	U751	U675	A602	U527	C450	G373
A1414	C1343	C1342	U1270	A1202	A1132	C1060	A	A923	C841	G754	C576	A603	G528	C451	U374
G1415	C1343	C1342	U1270	A1202	A1133	U1061	U	G924	C842	U754	C577	G604	G529	A453	G375
G1416	C1344	C1343	U1273	C1205	G1137	G1063	C	A926	A843	G759	G678	C605	U532	U457	C377
G1417	U1345	A1345	C1273	A1207	U1064	U1064	G	A844	A843	G760	G679	U612	U532	U457	A378
U1422	U1347	U1346	C1277	C1208	G1138	G1065	G	G934	U845	A761	G680	C613	G535	C461	G379
C1423	A1348	A1278	A1278	G1209	U1139	U1066	C	G935	A846	C762	G681	U614	A536	C461	A380
G1430	A1280	U1279	U1279	G1210	C1140	A1067	A	U946	C947	C763	A682	U615	G537	U457	G381
A1424	G1349	A1280	U1280	G1211	U1141	G1068	C	G938	C848	C764	G683	U616	C538	G471	U382
G1425	U1350	C1142	U1288	G1212	U1141	G1069	C	A939	C849	G765	G684	U617	G539	A472	A383
C1426	G1351	G1143	U1289	C1213	G1143	G1072	C	G940	U850	A766	C685	U618	A540	A473	G384
A1427	G1352	G1283	G1290	C1214	G1147	A1073	G	U941	C851	A767	A688	U619	C541	C474	G389
C1353	A1285	U1284	G1290	G1215	C1147	G1074	C	U942	U855	G771	A689	A620	A542	G475	G390
U1503	U1285	A1286	G1295	G1216	U1148	C1080	C	U943	U856	G772	A690	C621	U543	C480	U391
U1505	A1286	A1287	G1295	G1217	U1149	A1081	C	G944	G857	G773	A691	G622	U544	U481	U392
U1506	A1355	U1288	U1218	U1218	A1150	G1085	C	U945	U858	A773	C695	U623	G545	G482	G393
C1507	A1356	U1289	U1219	U1219	G1151	A1086	C	U946	U859	G774	C696	U624	G546	C483	G394
U1508	A1357	U1290	G1290	U1220	A1152	A1087	C	U947	C859	G775	A697	U625	U548	U488	C399
C1509	U1358	G1290	G1290	U1221	G1153	G1088	C	U948	U860	A776	A698	U626	U549	C492	C400
G1510	C1360	U1369	G1295	G1222	A1154	U1095	C	U949	G877	A777	A699	C627	C550	U493	C401
U1511	C1361	U1298	U1298	G1223	U1155	G1089	C	G950	G878	G778	A700	G634	C557	C494	U402
G1512	C1362	U1299	U1299	G1224	C1156	A1090	C	A951	G879	C779	A701	A635	U559	G496	A407
A1515	G1363	C1300	C1301	G1225	G1157	U1091	C	U952	G873	U779	U702	A629	A552	A498	A410
C1516	U1364	C1301	C1301	G1226	U1158	A1092	C	U953	A874	G782	G702	A630	G553	G497	A411
U1517	A1367	U1304	U1304	G1228	G1160	G1093	C	U954	A875	G783	G703	A631	G554	C500	G413
U1519	C1369	C1305	C1305	C1229	U1163	G1094	C	G956	A876	A784	C704	A632	U555	U488	C414
C1521	U1447	U1306	U1306	A1231	U1164	U1096	C	A957	G877	A790	C705	C633	C556	C492	C401
A1522	A1448	A1307	A1307	A1232	U1165	A1097	C	U958	G878	A791	C707	G636	C557	C494	U402
G1523	G1449	C1377	C1377	U1233	G1166	A1098	C	C959	C881	G792	A708	C637	U559	G496	A407
U1524	C1450	U1309	U1309	U1234	G1167	G1099	C	G960	A882	U793	G709	C638	A561	A498	A411
G1525	U1451	C1378	C1378	G1235	C1168	G1021	C	A961	U883	U794	G710	A639	A562	G499	G412
A1526	G1452	A1379	G1311	A1236	U1169	A1022	C	G963	G885	G795	A708	C640	G500	G501	G413
A1527	G1453	U1380	G1312	U1237	U1170	G1103	C	G964	A886	A796	U713	A566	G502	G501	C414
A1528	U1454	A1381	A1313	C1238	A1171	G1104	C	A965	G887	A797	U714	U667	A502	A502	G417
G1529	U1457	G1382	U1314	G1239	G1172	G1105	C	U966	U888	G798	U	G643	G503	G503	C418
U1530	A1458	C1384	G1315	G1241	A1173	A1106	C	U967	C989	C803	G719	G646	C574	G506	A419
C1534	U1459	G1385	G1316	A1242	A1174	A1107	C	G968	C990	C804	G720	U647	C575	C505	U420
U1535	G1460	G1386	A1318	C1243	C1180	G1108	C	G969	G891	A807	G721	G653	G575	A507	C421
C1536	U1461	G1387	A1319	U1244	A1181	G1110	C	U970	A892	A808	G722	A654	G581	A508	U425
G1537	C1462	U1388	U1320	C1245	U1182	A1114	C	G975	A895	G809	G728	U685	C582	U510	G426
C1538	A1463	G1389	A1321	U1246	U1183	U1115	C	U	C996	G810	C729	G696	G582	A511	G431
U1539	U1464	A1390	G1322	A1247	A1184	U1116	C	G	A897	C811	G730	G697	U584	G512	G432
G1540	G1391	G1391	G1322	A1248	U1185	A1117	C	U	G898	A812	G730	C658	C585	A513	C433
U1541	C1467	A1392	G1327	U1250	U1186	A1118	C	C	A899	C813	U731	C659	C586	G514	C433
C1468	U1328	A1328	U1328	C1251	U1187	G1119	C	G	G902	G814	C735	A660	A587	C515	U434
C1469	A1329	A1329	A1329	C1251	U1188	U1120	C	G	U903	U815	G735	G661	G588	A516	C438
A1470	C1397	A1330	A1330	C1251	A1189	U1121	C	C	U904	A736	A737	U662	U589	U517	G439
U1471	G1398	A1331	G1398	C1257	A1190	G1122	C	C	C905	G816	A737	C905	G518	G518	A439
G1472	C1472	A1399	C1332	G1258	G1191	A1123	C	U	C906	A818	G738	U664	C594	A519	C440

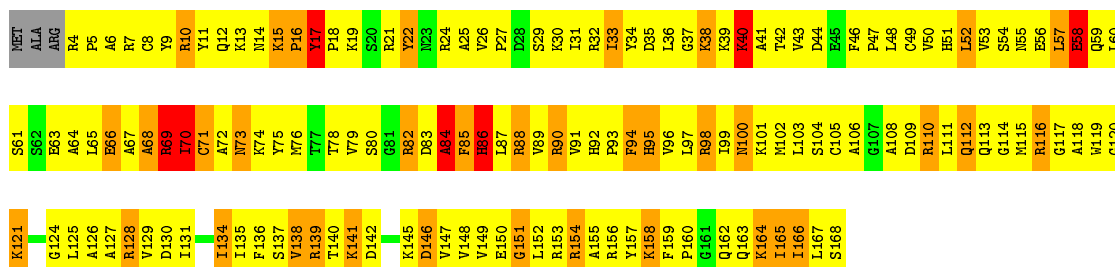


GLY
PHE
ILE
THR
GLU
ASP
LEU

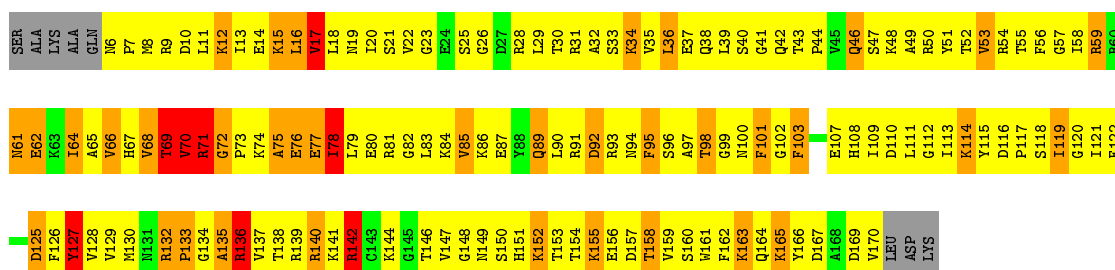
• Molecule 28: 60S ribosomal protein L10

Chain BI: 9% 64% 21% • •



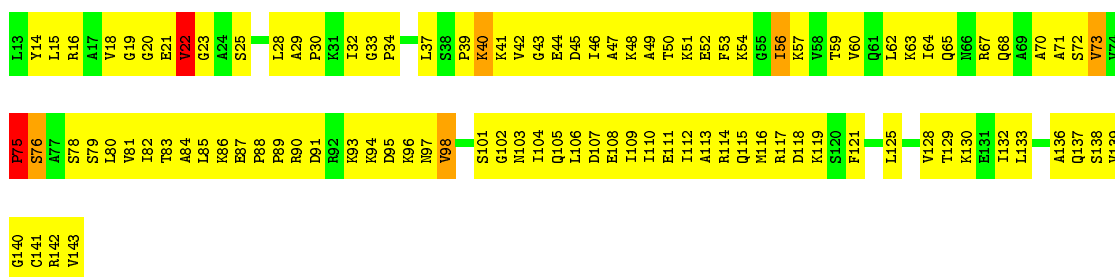
• Molecule 29: 60S ribosomal protein L11

Chain BJ: 9% 61% 21% 5% 5%



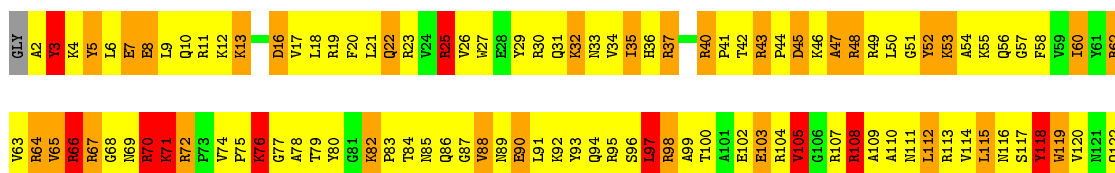
• Molecule 30: 60S ribosomal protein L12

Chain BK: 21% 73% • •

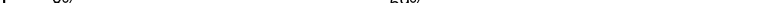


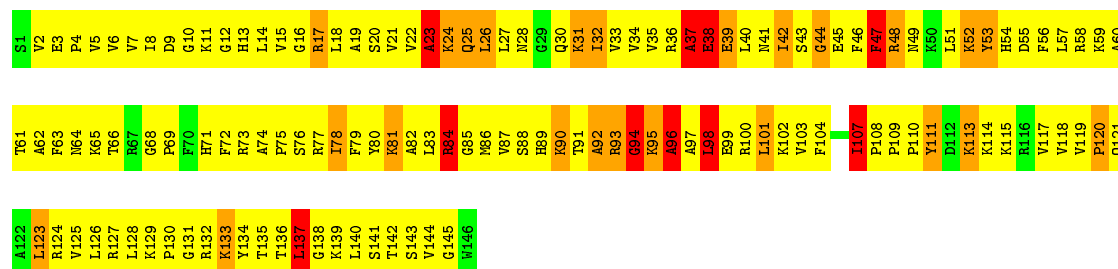
• Molecule 31: 60S ribosomal protein L15-A

Chain BL: 9% 51% 29% 7% •



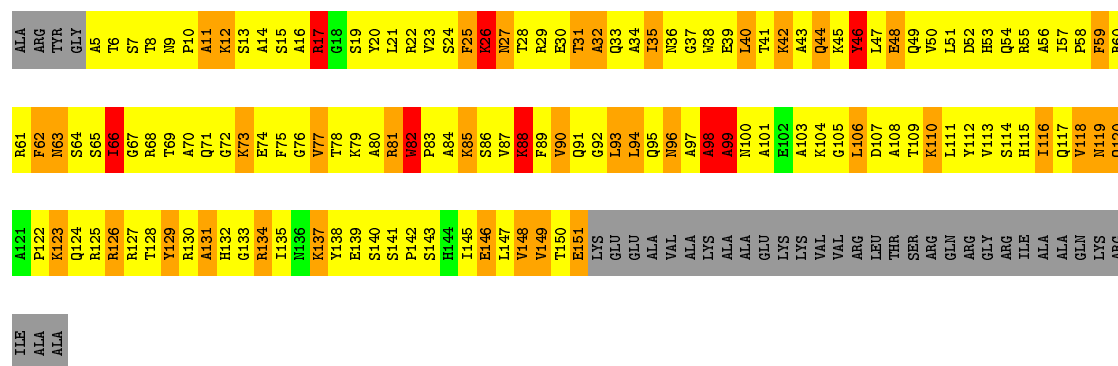
- Molecule 32: 60S ribosomal protein L16-A

Chain BM:  8% 69% 16% 7%




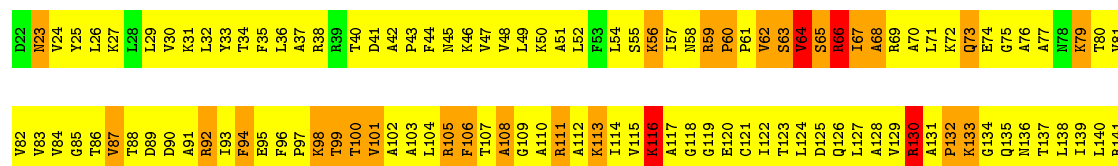
- Molecule 33: 60S ribosomal protein L17-A

Chain BN:  52% 21% 20%




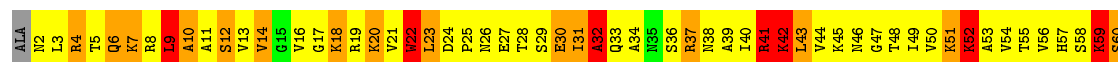
- Molecule 34: 60S ribosomal protein L18

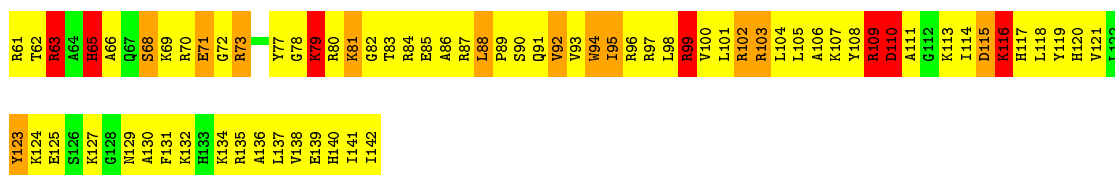
Chain BO:  72% 21%



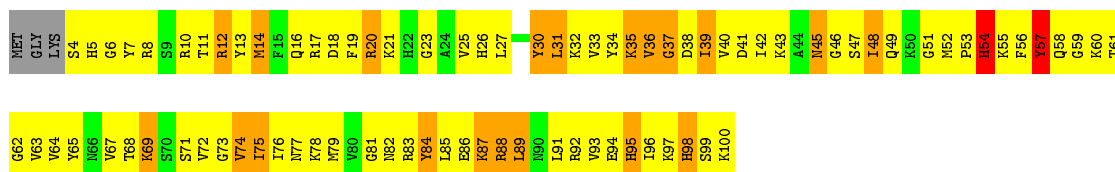
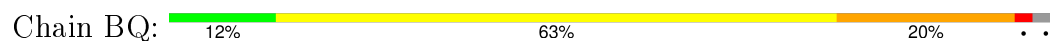
- Molecule 35: 60S ribosomal protein L19

Chain BP: 

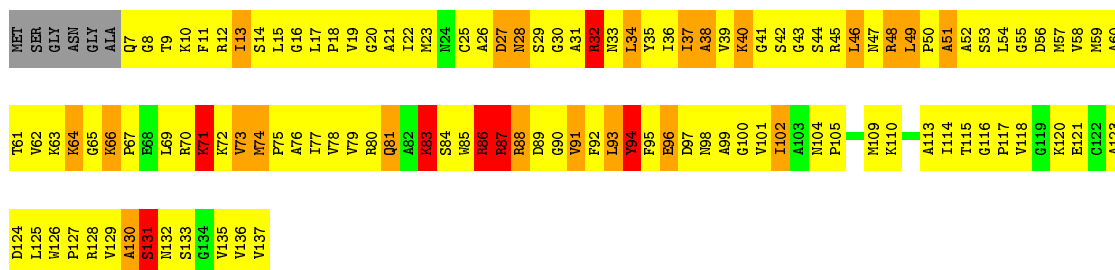
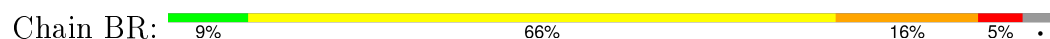




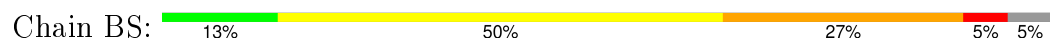
- Molecule 36: 60S ribosomal protein L21-A



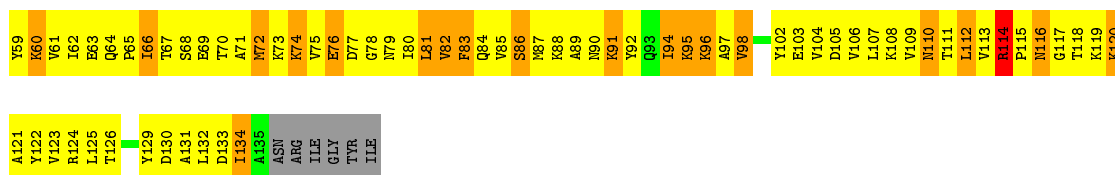
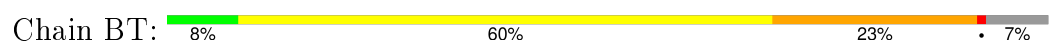
- Molecule 37: 60S ribosomal protein L23



- Molecule 38: 60S ribosomal protein L24-A



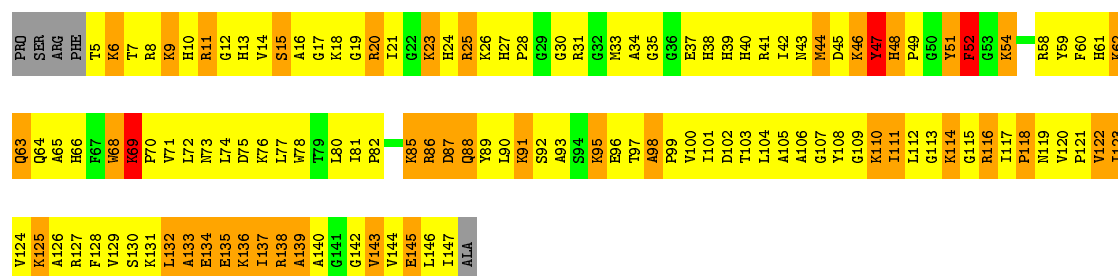
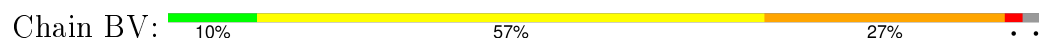
- Molecule 39: 60S ribosomal protein L25



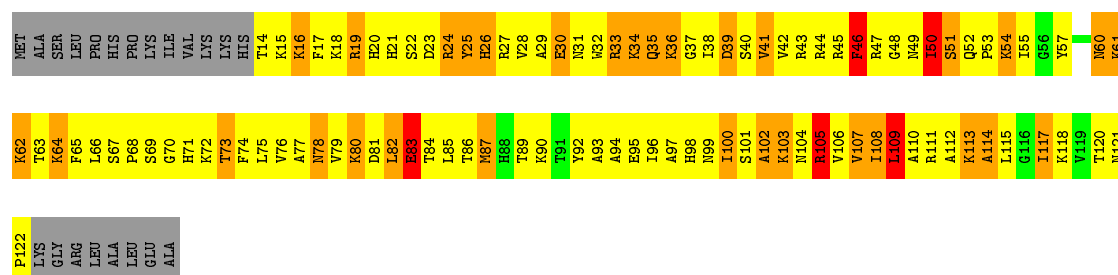
- Molecule 40: 60S ribosomal protein L26-A



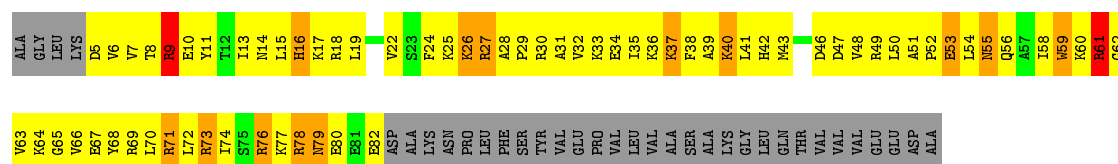
- Molecule 41: 60S ribosomal protein L28



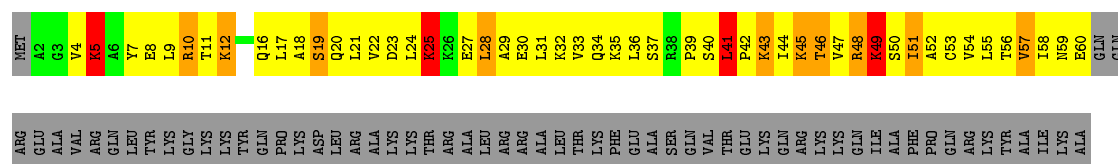
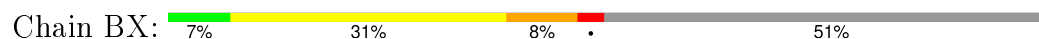
- Molecule 42: 60S ribosomal protein L32



- Molecule 43: 60S ribosomal protein L31

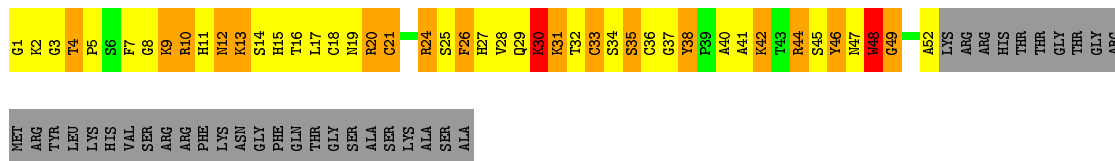


- Molecule 44: 60S ribosomal protein L35




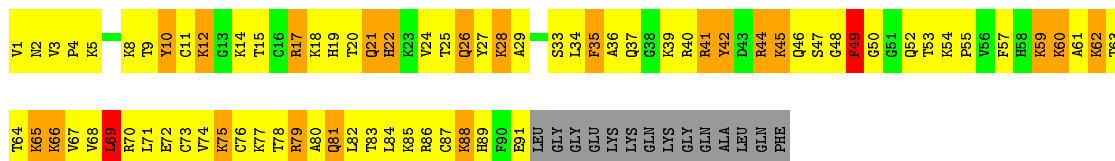
- Molecule 45: 60S ribosomal protein L37-A

Chain BY: 



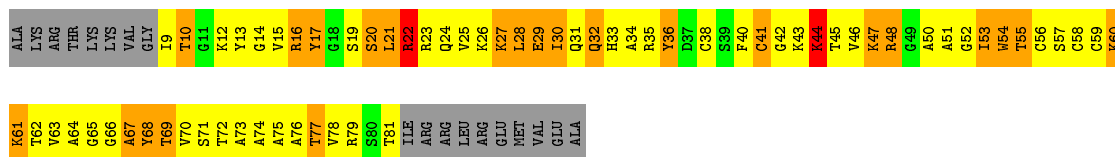
- Molecule 46: 60S ribosomal protein L42

Chain BZ: 



- Molecule 47: 60S ribosomal protein L43

Chain B9: 



4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	CTF correction of 3D-maps by Wiener filtration	Depositor
Microscope	FEI TECNAI 20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	15	Depositor
Minimum defocus (nm)	4900	Depositor
Maximum defocus (nm)	1400	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO163 FILM	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 >2	RMSZ	# Z >2
1	AA	0.49	1/35241 (0.0%)	0.77	43/54932 (0.1%)
10	AJ	0.99	0/787	1.17	0/1063
11	AK	1.10	0/936	1.28	3/1260 (0.2%)
12	AL	0.99	0/920	1.19	1/1226 (0.1%)
13	AM	1.06	0/1100	1.54	4/1476 (0.3%)
14	AN	1.13	0/237	1.37	0/315
15	AO	1.09	0/560	1.06	1/745 (0.1%)
16	AQ	1.08	0/631	1.15	0/852
17	AS	1.03	0/636	1.27	3/855 (0.4%)
18	B3	0.58	5/67026 (0.0%)	0.79	89/104457 (0.1%)
19	B4	0.36	0/2905	0.75	4/4528 (0.1%)
2	AT	0.31	0/6496	0.59	1/8794 (0.0%)
20	BA	0.91	0/1706	1.12	1/2289 (0.0%)
21	BB	1.27	2/1889 (0.1%)	4.30	39/2539 (1.5%)
22	BC	1.19	3/2921 (0.1%)	3.76	53/3933 (1.3%)
23	BD	1.46	5/1979 (0.3%)	3.13	28/2680 (1.0%)
24	BE	1.23	1/1840 (0.1%)	1.67	35/2487 (1.4%)
25	BF	1.05	0/1330	1.33	4/1794 (0.2%)
26	BG	1.05	0/895	1.51	15/1208 (1.2%)
27	BH	1.13	0/1429	1.77	18/1925 (0.9%)
28	BI	1.16	0/1352	2.99	29/1815 (1.6%)
29	BJ	1.20	1/1340 (0.1%)	1.89	20/1797 (1.1%)
3	AB	1.00	0/1471	1.13	2/2007 (0.1%)
30	BK	1.08	1/986 (0.1%)	2.52	7/1320 (0.5%)
31	BL	1.33	1/1671 (0.1%)	3.44	43/2239 (1.9%)
32	BM	1.23	1/1190 (0.1%)	3.77	22/1597 (1.4%)
33	BN	1.19	2/1185 (0.2%)	4.05	30/1597 (1.9%)
34	BO	1.20	2/937 (0.2%)	5.64	22/1266 (1.7%)
35	BP	1.24	1/1162 (0.1%)	2.86	20/1550 (1.3%)
36	BQ	1.10	0/811	1.45	7/1081 (0.6%)
37	BR	1.17	0/992	1.52	10/1333 (0.8%)
38	BS	1.23	0/449	1.66	7/597 (1.2%)
39	BT	1.19	0/621	1.52	5/837 (0.6%)
4	AC	1.04	0/1488	1.19	4/1996 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
40	BU	1.15	0/922	1.78	6/1232 (0.5%)
41	BV	1.08	0/1162	1.32	6/1556 (0.4%)
42	B0	1.18	1/897 (0.1%)	4.22	12/1201 (1.0%)
43	BW	1.17	0/664	1.46	3/885 (0.3%)
44	BX	1.10	0/463	1.44	3/619 (0.5%)
45	BY	1.35	1/412 (0.2%)	6.06	13/548 (2.4%)
46	BZ	1.15	2/752 (0.3%)	7.19	34/995 (3.4%)
47	B9	1.27	0/553	1.66	6/740 (0.8%)
5	AD	1.06	0/1443	1.21	2/1932 (0.1%)
6	AE	1.03	0/1112	1.17	0/1500
7	AG	1.06	0/1169	1.14	2/1570 (0.1%)
8	AH	0.99	0/1021	1.15	0/1371
9	AI	1.18	5/1114 (0.4%)	1.65	21/1492 (1.4%)
All	All	0.77	35/158803 (0.0%)	1.54	678/236031 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	4	37
18	B3	19	47
19	B4	2	0
21	BB	0	2
22	BC	0	1
28	BI	0	2
29	BJ	0	1
30	BK	0	1
31	BL	0	1
32	BM	0	2
33	BN	0	1
34	BO	0	2
35	BP	0	1
38	BS	0	1
40	BU	0	1
41	BV	0	1
47	B9	0	1
All	All	25	102

All (35) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	B3	1206	C	O3'-P	-58.99	0.90	1.61
18	B3	2133	U	O3'-P	-56.48	0.93	1.61
18	B3	2168	G	O3'-P	-32.11	1.22	1.61
23	BD	64	TRP	CD2-CE2	-26.50	1.09	1.41
23	BD	64	TRP	NE1-CE2	20.96	1.64	1.37
18	B3	2245	C	O3'-P	17.55	1.82	1.61
30	BK	75	PRO	C-N	12.88	1.63	1.34
23	BD	64	TRP	CG-CD2	12.65	1.65	1.43
18	B3	2205	G	O3'-P	-11.84	1.47	1.61
23	BD	64	TRP	CD1-NE1	-10.71	1.19	1.38
23	BD	64	TRP	CG-CD1	-10.65	1.21	1.36
1	AA	1066	C	O3'-P	-10.56	1.48	1.61
24	BE	99	TYR	CB-CG	-7.99	1.39	1.51
46	BZ	35	PHE	CB-CG	7.70	1.64	1.51
22	BC	117	PHE	CB-CG	7.67	1.64	1.51
45	BY	26	PHE	CB-CG	7.60	1.64	1.51
21	BB	185	PHE	CB-CG	7.52	1.64	1.51
32	BM	47	PHE	CB-CG	7.51	1.64	1.51
34	BO	94	PHE	CB-CG	7.50	1.64	1.51
46	BZ	57	PHE	CB-CG	7.50	1.64	1.51
31	BL	179	PHE	CB-CG	7.46	1.64	1.51
42	B0	46	PHE	CB-CG	7.44	1.64	1.51
22	BC	297	PHE	CB-CG	7.37	1.63	1.51
21	BB	15	PHE	CB-CG	7.25	1.63	1.51
34	BO	106	PHE	CB-CG	6.91	1.63	1.51
9	AI	97	ASP	C-N	6.86	1.49	1.34
33	BN	59	PHE	CB-CG	6.60	1.62	1.51
35	BP	123	TYR	CB-CG	-6.37	1.42	1.51
9	AI	103	GLU	CA-C	5.90	1.68	1.52
33	BN	46	TYR	CB-CG	-5.47	1.43	1.51
9	AI	98	GLU	N-CA	5.40	1.57	1.46
9	AI	103	GLU	N-CA	5.36	1.57	1.46
29	BJ	70	VAL	CA-CB	-5.18	1.43	1.54
9	AI	105	LYS	N-CA	5.16	1.56	1.46
22	BC	313	TYR	CB-CG	-5.08	1.44	1.51

All (678) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BC	297	PHE	CZ-CE2-CD2	-87.49	15.11	120.10
42	B0	46	PHE	CZ-CE2-CD2	-87.16	15.51	120.10
45	BY	26	PHE	CZ-CE2-CD2	-87.13	15.54	120.10
21	BB	15	PHE	CZ-CE2-CD2	-87.10	15.57	120.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BO	94	PHE	CD1-CE1-CZ	-87.08	15.60	120.10
34	BO	106	PHE	CD1-CE1-CZ	-87.07	15.61	120.10
32	BM	47	PHE	CZ-CE2-CD2	-87.06	15.62	120.10
31	BL	179	PHE	CZ-CE2-CD2	-87.05	15.64	120.10
46	BZ	57	PHE	CD1-CE1-CZ	-87.05	15.65	120.10
46	BZ	35	PHE	CZ-CE2-CD2	-87.04	15.65	120.10
21	BB	185	PHE	CZ-CE2-CD2	-86.98	15.72	120.10
22	BC	117	PHE	CD1-CE1-CZ	-86.59	16.19	120.10
33	BN	59	PHE	CZ-CE2-CD2	-86.52	16.27	120.10
23	BD	64	TRP	CE2-CD2-CG	-75.54	46.87	107.30
30	BK	75	PRO	O-C-N	-70.91	9.24	122.70
33	BN	59	PHE	CG-CD2-CE2	-67.36	46.70	120.80
34	BO	106	PHE	CG-CD1-CE1	-66.56	47.59	120.80
21	BB	15	PHE	CG-CD2-CE2	-66.15	48.03	120.80
32	BM	47	PHE	CG-CD2-CE2	-66.05	48.15	120.80
46	BZ	57	PHE	CG-CD1-CE1	-65.97	48.23	120.80
42	B0	46	PHE	CG-CD2-CE2	-65.92	48.29	120.80
31	BL	179	PHE	CG-CD2-CE2	-65.73	48.49	120.80
21	BB	185	PHE	CG-CD2-CE2	-65.70	48.53	120.80
22	BC	117	PHE	CG-CD1-CE1	-65.67	48.56	120.80
22	BC	297	PHE	CG-CD2-CE2	-65.66	48.58	120.80
34	BO	94	PHE	CG-CD1-CE1	-65.60	48.64	120.80
45	BY	26	PHE	CG-CD2-CE2	-65.04	49.25	120.80
46	BZ	35	PHE	CG-CD2-CE2	-64.20	50.19	120.80
18	B3	2133	U	P-O3'-C3'	-62.95	44.16	119.70
23	BD	64	TRP	NE1-CE2-CD2	-60.83	46.47	107.30
46	BZ	22	HIS	CG-ND1-CE1	-52.60	34.56	108.20
35	BP	65	HIS	CG-ND1-CE1	-52.48	34.73	108.20
18	B3	2245	C	O3'-P-O5'	-52.45	4.35	104.00
22	BC	242	HIS	CG-ND1-CE1	-52.41	34.83	108.20
28	BI	86	HIS	CG-ND1-CE1	-52.40	34.84	108.20
46	BZ	22	HIS	ND1-CG-CD2	-52.12	33.03	106.00
23	BD	64	TRP	CG-CD1-NE1	-52.09	58.01	110.10
22	BC	242	HIS	ND1-CG-CD2	-52.08	33.08	106.00
35	BP	65	HIS	ND1-CG-CD2	-52.06	33.12	106.00
28	BI	86	HIS	ND1-CG-CD2	-52.01	33.19	106.00
22	BC	117	PHE	CB-CG-CD1	46.58	153.40	120.80
21	BB	15	PHE	CB-CG-CD2	46.29	153.20	120.80
34	BO	94	PHE	CB-CG-CD1	46.19	153.13	120.80
42	B0	46	PHE	CB-CG-CD2	46.09	153.06	120.80
31	BL	179	PHE	CB-CG-CD2	46.07	153.05	120.80
34	BO	106	PHE	CB-CG-CD1	46.05	153.04	120.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	BM	47	PHE	CB-CG-CD2	45.98	152.99	120.80
21	BB	185	PHE	CB-CG-CD2	45.94	152.96	120.80
46	BZ	57	PHE	CB-CG-CD1	45.80	152.86	120.80
22	BC	297	PHE	CB-CG-CD2	45.67	152.77	120.80
33	BN	59	PHE	CB-CG-CD2	45.23	152.47	120.80
46	BZ	35	PHE	CB-CG-CD2	45.23	152.46	120.80
45	BY	26	PHE	CB-CG-CD2	44.94	152.26	120.80
23	BD	64	TRP	CE3-CZ3-CH2	-41.98	75.02	121.20
23	BD	64	TRP	CZ3-CH2-CZ2	-39.17	74.59	121.60
21	BB	193	ASN	CB-CG-OD1	-39.10	43.41	121.60
28	BI	112	GLN	CG-CD-OE1	-38.89	43.82	121.60
31	BL	137	GLN	CG-CD-OE1	-38.84	43.93	121.60
23	BD	64	TRP	CH2-CZ2-CE2	38.81	156.21	117.40
46	BZ	81	GLN	CG-CD-OE1	-38.74	44.13	121.60
22	BC	242	HIS	CG-CD2-NE2	-38.69	35.69	109.20
21	BB	143	ASN	CB-CG-OD1	-38.68	44.24	121.60
40	BU	42	GLN	CG-CD-OE1	-38.68	44.25	121.60
29	BJ	46	GLN	CG-CD-OE1	-38.67	44.26	121.60
35	BP	65	HIS	CG-CD2-NE2	-38.65	35.77	109.20
46	BZ	26	GLN	CG-CD-OE1	-38.63	44.34	121.60
46	BZ	22	HIS	CG-CD2-NE2	-38.61	35.85	109.20
30	BK	97	ASN	CB-CG-OD1	-38.59	44.43	121.60
28	BI	100	ASN	CB-CG-OD1	-38.55	44.51	121.60
27	BH	162	GLN	CG-CD-OE1	-38.54	44.52	121.60
33	BN	120	GLN	CG-CD-OE1	-38.54	44.52	121.60
33	BN	27	ASN	CB-CG-OD1	-38.48	44.64	121.60
28	BI	86	HIS	CG-CD2-NE2	-38.46	36.12	109.20
13	AM	136	GLN	CG-CD-OE1	-38.23	45.14	121.60
46	BZ	35	PHE	CE1-CZ-CE2	-37.54	52.42	120.00
21	BB	185	PHE	CE1-CZ-CE2	-37.43	52.63	120.00
42	B0	46	PHE	CE1-CZ-CE2	-37.34	52.79	120.00
22	BC	117	PHE	CE1-CZ-CE2	-37.28	52.90	120.00
21	BB	15	PHE	CE1-CZ-CE2	-37.27	52.92	120.00
31	BL	179	PHE	CE1-CZ-CE2	-37.27	52.92	120.00
34	BO	94	PHE	CE1-CZ-CE2	-37.25	52.94	120.00
46	BZ	57	PHE	CE1-CZ-CE2	-37.25	52.96	120.00
32	BM	47	PHE	CE1-CZ-CE2	-37.17	53.09	120.00
45	BY	26	PHE	CE1-CZ-CE2	-37.15	53.12	120.00
34	BO	106	PHE	CE1-CZ-CE2	-37.12	53.19	120.00
33	BN	59	PHE	CE1-CZ-CE2	-37.06	53.30	120.00
22	BC	297	PHE	CE1-CZ-CE2	-37.04	53.33	120.00
46	BZ	35	PHE	CD1-CE1-CZ	-35.58	77.41	120.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	BY	26	PHE	CD1-CE1-CZ	-35.53	77.46	120.10
22	BC	297	PHE	CD1-CE1-CZ	-34.93	78.19	120.10
45	BY	26	PHE	CD1-CG-CD2	-34.75	73.12	118.30
31	BL	179	PHE	CD1-CE1-CZ	-34.75	78.40	120.10
22	BC	117	PHE	CZ-CE2-CD2	-34.74	78.41	120.10
34	BO	94	PHE	CZ-CE2-CD2	-34.69	78.48	120.10
46	BZ	57	PHE	CZ-CE2-CD2	-34.64	78.53	120.10
32	BM	47	PHE	CD1-CE1-CZ	-34.61	78.57	120.10
46	BZ	35	PHE	CD1-CG-CD2	-34.57	73.35	118.30
21	BB	185	PHE	CD1-CE1-CZ	-34.54	78.65	120.10
21	BB	15	PHE	CD1-CE1-CZ	-34.43	78.78	120.10
42	B0	46	PHE	CD1-CE1-CZ	-34.41	78.81	120.10
22	BC	117	PHE	CD1-CG-CD2	-34.38	73.61	118.30
22	BC	297	PHE	CD1-CG-CD2	-34.31	73.70	118.30
34	BO	106	PHE	CZ-CE2-CD2	-34.29	78.95	120.10
34	BO	94	PHE	CD1-CG-CD2	-34.28	73.73	118.30
21	BB	185	PHE	CD1-CG-CD2	-34.23	73.80	118.30
31	BL	179	PHE	CD1-CG-CD2	-34.21	73.83	118.30
32	BM	47	PHE	CD1-CG-CD2	-34.14	73.91	118.30
46	BZ	57	PHE	CD1-CG-CD2	-34.13	73.93	118.30
23	BD	64	TRP	CD2-CE2-CZ2	-34.09	81.39	122.30
21	BB	15	PHE	CD1-CG-CD2	-34.02	74.08	118.30
34	BO	106	PHE	CD1-CG-CD2	-34.01	74.09	118.30
42	B0	46	PHE	CD1-CG-CD2	-34.01	74.09	118.30
33	BN	59	PHE	CD1-CG-CD2	-33.88	74.26	118.30
18	B3	2133	U	O3'-P-O5'	-33.66	40.04	104.00
33	BN	59	PHE	CD1-CE1-CZ	-33.40	80.02	120.10
18	B3	1206	C	OP1-P-O3'	-32.04	34.71	105.20
28	BI	86	HIS	ND1-CE1-NE2	-31.57	40.44	109.90
35	BP	65	HIS	ND1-CE1-NE2	-31.42	40.77	109.90
22	BC	242	HIS	ND1-CE1-NE2	-31.40	40.81	109.90
46	BZ	22	HIS	ND1-CE1-NE2	-31.40	40.82	109.90
23	BD	64	TRP	CE2-CD2-CE3	-31.06	81.42	118.70
18	B3	2245	C	P-O3'-C3'	-30.23	83.42	119.70
23	BD	64	TRP	CD2-CE3-CZ3	28.78	156.22	118.80
33	BN	59	PHE	CG-CD1-CE1	-28.50	89.45	120.80
28	BI	86	HIS	CE1-NE2-CD2	-28.48	35.41	106.60
22	BC	242	HIS	CE1-NE2-CD2	-28.40	35.59	106.60
35	BP	65	HIS	CE1-NE2-CD2	-28.39	35.62	106.60
46	BZ	22	HIS	CE1-NE2-CD2	-28.34	35.74	106.60
22	BC	117	PHE	CG-CD2-CE2	-27.69	90.34	120.80
42	B0	46	PHE	CG-CD1-CE1	-27.53	90.51	120.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BO	106	PHE	CG-CD2-CE2	-27.48	90.57	120.80
34	BO	94	PHE	CG-CD2-CE2	-27.45	90.60	120.80
21	BB	15	PHE	CG-CD1-CE1	-27.44	90.61	120.80
32	BM	47	PHE	CG-CD1-CE1	-27.40	90.66	120.80
21	BB	185	PHE	CG-CD1-CE1	-27.40	90.66	120.80
46	BZ	57	PHE	CG-CD2-CE2	-27.36	90.71	120.80
31	BL	179	PHE	CG-CD1-CE1	-27.35	90.71	120.80
46	BZ	35	PHE	CG-CD1-CE1	-27.11	90.98	120.80
22	BC	297	PHE	CG-CD1-CE1	-27.00	91.10	120.80
45	BY	26	PHE	CG-CD1-CE1	-26.64	91.50	120.80
1	AA	1066	C	O3'-P-O5'	23.86	149.33	104.00
45	BY	26	PHE	CB-CG-CD1	19.74	134.62	120.80
46	BZ	35	PHE	CB-CG-CD1	19.10	134.17	120.80
1	AA	1066	C	OP2-P-O3'	-18.98	63.44	105.20
22	BC	297	PHE	CB-CG-CD1	18.18	133.53	120.80
33	BN	59	PHE	CB-CG-CD1	17.82	133.28	120.80
21	BB	185	PHE	CB-CG-CD1	17.77	133.24	120.80
46	BZ	57	PHE	CB-CG-CD2	17.72	133.20	120.80
34	BO	94	PHE	CB-CG-CD2	17.62	133.13	120.80
31	BL	179	PHE	CB-CG-CD1	17.60	133.12	120.80
32	BM	47	PHE	CB-CG-CD1	17.57	133.10	120.80
22	BC	117	PHE	CB-CG-CD2	17.41	132.99	120.80
34	BO	106	PHE	CB-CG-CD2	17.24	132.87	120.80
42	B0	46	PHE	CB-CG-CD1	17.20	132.84	120.80
9	AI	104	LEU	C-N-CA	17.16	164.60	121.70
21	BB	15	PHE	CB-CG-CD1	17.01	132.71	120.80
18	B3	1206	C	O3'-P-O5'	-14.80	75.89	104.00
9	AI	97	ASP	C-N-CA	14.73	158.53	121.70
33	BN	46	TYR	CA-CB-CG	-14.53	85.79	113.40
9	AI	97	ASP	CB-CA-C	14.08	138.57	110.40
24	BE	99	TYR	CA-CB-CG	-13.97	86.86	113.40
33	BN	46	TYR	CB-CG-CD1	-13.87	112.68	121.00
35	BP	123	TYR	CB-CG-CD1	-12.54	113.47	121.00
47	B9	17	TYR	CA-CB-CG	-12.39	89.86	113.40
9	AI	98	GLU	C-N-CA	12.22	152.25	121.70
35	BP	123	TYR	CA-CB-CG	-11.90	90.80	113.40
24	BE	99	TYR	CB-CG-CD1	-11.62	114.03	121.00
22	BC	48	TYR	CB-CG-CD1	-11.47	114.12	121.00
24	BE	30	TYR	CA-CB-CG	-11.17	92.18	113.40
18	B3	2205	G	P-O3'-C3'	-11.10	106.38	119.70
18	B3	2749	U	C2'-C3'-O3'	11.08	133.88	109.50
27	BH	96	HIS	CA-CB-CG	-10.88	95.10	113.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AI	105	LYS	CB-CA-C	-10.79	88.82	110.40
18	B3	904	U	C2'-C3'-O3'	10.40	132.39	109.50
24	BE	219	PHE	CA-CB-CG	-10.32	89.14	113.90
18	B3	1981	A	C2'-C3'-O3'	10.23	132.00	109.50
22	BC	310	PHE	CA-CB-CG	-10.08	89.70	113.90
18	B3	2692	G	N9-C1'-C2'	10.06	127.08	114.00
33	BN	25	PHE	CA-CB-CG	-10.02	89.85	113.90
1	AA	1498	U	C2'-C3'-O3'	10.02	131.54	109.50
22	BC	313	TYR	CA-CB-CG	-9.99	94.42	113.40
43	BW	59	TRP	CA-CB-CG	-9.97	94.75	113.70
13	AM	136	GLN	CG-CD-NE2	-9.89	92.96	116.70
33	BN	27	ASN	CB-CG-ND2	-9.83	93.10	116.70
28	BI	100	ASN	CB-CG-ND2	-9.79	93.20	116.70
27	BH	162	GLN	CG-CD-NE2	-9.73	93.35	116.70
21	BB	143	ASN	CB-CG-ND2	-9.69	93.45	116.70
33	BN	120	GLN	CG-CD-NE2	-9.67	93.49	116.70
29	BJ	46	GLN	CG-CD-NE2	-9.66	93.52	116.70
40	BU	42	GLN	CG-CD-NE2	-9.64	93.56	116.70
46	BZ	26	GLN	CG-CD-NE2	-9.63	93.60	116.70
30	BK	97	ASN	CB-CG-ND2	-9.62	93.61	116.70
1	AA	1504	G	C2'-C3'-O3'	9.61	130.64	109.50
46	BZ	81	GLN	CG-CD-NE2	-9.61	93.64	116.70
19	B4	3	A	C2'-C3'-O3'	9.57	130.55	109.50
1	AA	243	A	C2'-C3'-O3'	9.56	130.54	109.50
31	BL	137	GLN	CG-CD-NE2	-9.53	93.83	116.70
24	BE	160	PHE	CA-CB-CG	-9.43	91.27	113.90
28	BI	112	GLN	CG-CD-NE2	-9.42	94.10	116.70
18	B3	894	A	C2'-C3'-O3'	9.34	130.06	109.50
29	BJ	75	ALA	C-N-CA	9.34	145.05	121.70
24	BE	219	PHE	CB-CG-CD1	-9.31	114.28	120.80
18	B3	2168	G	OP2-P-O3'	-9.27	84.81	105.20
29	BJ	76	GLU	N-CA-C	-9.25	86.02	111.00
9	AI	101	LYS	C-N-CA	9.24	144.80	121.70
1	AA	181	G	C2'-C3'-O3'	9.22	129.78	109.50
1	AA	559	A	C2'-C3'-O3'	9.14	129.62	109.50
29	BJ	70	VAL	CA-CB-CG2	-9.07	97.30	110.90
32	BM	111	TYR	CA-CB-CG	-9.07	96.17	113.40
32	BM	31	LYS	C-N-CA	-8.88	99.50	121.70
18	B3	1059	G	C2'-C3'-O3'	8.86	129.00	109.50
21	BB	193	ASN	CB-CG-ND2	-8.86	95.45	116.70
9	AI	97	ASP	CA-C-O	-8.82	101.58	120.10
23	BD	25	PHE	CA-CB-CG	-8.81	92.75	113.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	BI	69	ARG	N-CA-C	-8.71	87.49	111.00
18	B3	713	U	C2'-C3'-O3'	8.70	128.63	109.50
24	BE	99	TYR	CB-CA-C	-8.69	93.01	110.40
11	AK	42	THR	CA-CB-CG2	-8.69	100.23	112.40
18	B3	1309	U	C2'-C3'-O3'	8.65	128.53	109.50
18	B3	191	A	C2'-C3'-O3'	8.65	128.53	109.50
22	BC	91	TYR	CA-CB-CG	-8.61	97.04	113.40
9	AI	101	LYS	N-CA-C	8.61	134.25	111.00
23	BD	25	PHE	CB-CG-CD1	-8.60	114.78	120.80
32	BM	38	GLU	N-CA-C	-8.59	87.80	111.00
29	BJ	101	PHE	CB-CA-C	-8.58	93.24	110.40
31	BL	118	TYR	CA-CB-CG	-8.55	97.15	113.40
18	B3	2168	G	P-O3'-C3'	8.55	129.96	119.70
22	BC	48	TYR	C-N-CA	8.51	142.97	121.70
26	BG	133	TYR	CB-CA-C	-8.51	93.39	110.40
24	BE	219	PHE	CB-CG-CD2	8.50	126.75	120.80
18	B3	480	C	C2'-C3'-O3'	8.33	127.83	109.50
37	BR	94	TYR	C-N-CA	-8.33	100.88	121.70
1	AA	1299	A	N9-C1'-C2'	8.32	124.82	114.00
9	AI	105	LYS	N-CA-C	8.31	133.44	111.00
18	B3	394	G	C2'-C3'-O3'	8.31	127.78	109.50
18	B3	2616	G	C2'-C3'-O3'	8.31	127.78	109.50
9	AI	102	ASN	C-N-CA	8.30	142.45	121.70
22	BC	320	PHE	CB-CA-C	-8.29	93.81	110.40
9	AI	103	GLU	C-N-CA	8.26	142.34	121.70
18	B3	2482	G	C2'-C3'-O3'	8.24	127.63	109.50
27	BH	88	TYR	CA-CB-CG	-8.19	97.85	113.40
18	B3	1206	C	P-O3'-C3'	8.17	129.50	119.70
18	B3	1406	A	C2'-C3'-O3'	8.14	127.41	109.50
18	B3	282	C	C2'-C3'-O3'	8.13	127.38	109.50
18	B3	1835	U	C2'-C3'-O3'	8.11	127.34	109.50
23	BD	123	SER	N-CA-C	-8.06	89.23	111.00
36	BQ	57	TYR	CA-CB-CG	-8.05	98.11	113.40
18	B3	1907	U	C2'-C3'-O3'	8.03	127.17	109.50
18	B3	600	G	C2'-C3'-O3'	7.98	127.06	109.50
18	B3	1853	C	C2'-C3'-O3'	7.98	127.06	109.50
18	B3	2714	U	C2'-C3'-O3'	7.95	126.99	109.50
1	AA	1528	U	C2'-C3'-O3'	7.95	126.98	109.50
18	B3	2321	A	C2'-C3'-O3'	7.92	126.92	109.50
1	AA	366	C	C2'-C3'-O3'	7.89	126.86	109.50
22	BC	48	TYR	CA-CB-CG	-7.86	98.47	113.40
41	BV	52	PHE	C-N-CA	-7.83	105.87	122.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BL	118	TYR	CB-CG-CD2	-7.79	116.33	121.00
1	AA	575	G	C2'-C3'-O3'	7.78	126.62	109.50
18	B3	2427	C	C2'-C3'-O3'	7.72	126.49	109.50
47	B9	36	TYR	CA-CB-CG	-7.72	98.72	113.40
31	BL	3	TYR	CB-CG-CD1	-7.72	116.37	121.00
1	AA	197	A	N9-C1'-C2'	7.69	124.00	114.00
18	B3	1699	C	C2'-C3'-O3'	7.69	126.41	109.50
27	BH	159	ALA	N-CA-C	-7.67	90.30	111.00
18	B3	2370	A	C2'-C3'-O3'	7.60	126.22	109.50
1	AA	1493	A	C2'-C3'-O3'	7.58	126.18	109.50
9	AI	99	GLN	C-N-CA	7.58	140.65	121.70
1	AA	60	A	C2'-C3'-O3'	7.54	126.08	109.50
18	B3	1506	U	C2'-C3'-O3'	7.49	125.98	109.50
7	AG	203	GLY	N-CA-C	-7.49	94.38	113.10
23	BD	124	ALA	N-CA-CB	7.49	120.58	110.10
33	BN	98	ALA	N-CA-C	-7.46	90.86	111.00
18	B3	554	G	C2'-C3'-O3'	7.45	125.89	109.50
35	BP	10	ALA	N-CA-CB	7.42	120.49	110.10
22	BC	310	PHE	CB-CG-CD1	-7.42	115.61	120.80
22	BC	74	ALA	C-N-CA	-7.42	103.15	121.70
22	BC	271	TYR	C-N-CA	-7.40	103.21	121.70
29	BJ	76	GLU	CB-CA-C	-7.36	95.68	110.40
1	AA	266	G	C2'-C3'-O3'	7.35	125.66	109.50
21	BB	193	ASN	OD1-CG-ND2	7.34	138.79	121.90
18	B3	2168	G	O3'-P-O5'	7.33	117.92	104.00
24	BE	203	HIS	CB-CA-C	-7.32	95.76	110.40
23	BD	124	ALA	N-CA-C	-7.31	91.26	111.00
19	B4	28	U	C2'-C3'-O3'	7.30	125.57	109.50
23	BD	128	THR	N-CA-C	-7.30	91.28	111.00
37	BR	71	LYS	C-N-CA	-7.29	103.48	121.70
30	BK	73	VAL	C-N-CA	7.27	139.88	121.70
21	BB	209	PRO	N-CA-C	-7.25	93.26	112.10
18	B3	2813	A	C2'-C3'-O3'	7.24	125.43	109.50
1	AA	687	A	C2'-C3'-O3'	7.22	125.38	109.50
18	B3	2133	U	OP1-P-O3'	-7.21	89.35	105.20
13	AM	105	VAL	CA-CB-CG2	-7.20	100.10	110.90
18	B3	199	A	C2'-C3'-O3'	7.18	125.29	109.50
18	B3	2283	G	C2'-C3'-O3'	7.17	125.27	109.50
1	AA	792	A	C2'-C3'-O3'	7.17	125.27	109.50
9	AI	97	ASP	CA-C-N	7.17	132.96	117.20
28	BI	22	TYR	CA-CB-CG	-7.16	99.81	113.40
29	BJ	127	TYR	CB-CG-CD2	-7.15	116.71	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BC	104	VAL	CA-CB-CG2	-7.14	100.19	110.90
22	BC	271	TYR	CA-CB-CG	-7.11	99.89	113.40
22	BC	47	GLY	C-N-CA	-7.10	103.94	121.70
33	BN	26	LYS	N-CA-C	-7.10	91.82	111.00
24	BE	99	TYR	CD1-CG-CD2	7.08	125.69	117.90
13	AM	136	GLN	OE1-CD-NE2	7.04	138.10	121.90
36	BQ	95	HIS	CA-CB-CG	-7.04	101.63	113.60
1	AA	115	G	N9-C1'-C2'	7.03	123.14	114.00
30	BK	97	ASN	OD1-CG-ND2	7.02	138.04	121.90
33	BN	120	GLN	OE1-CD-NE2	7.00	138.01	121.90
24	BE	208	MET	C-N-CA	-6.99	104.22	121.70
27	BH	117	PHE	CA-CB-CG	-6.98	97.14	113.90
46	BZ	26	GLN	OE1-CD-NE2	6.97	137.94	121.90
32	BM	32	ILE	C-N-CA	6.97	139.13	121.70
46	BZ	42	TYR	CB-CG-CD2	-6.97	116.82	121.00
27	BH	90	MET	N-CA-CB	6.97	123.14	110.60
18	B3	452	G	N9-C1'-C2'	6.97	123.06	114.00
28	BI	112	GLN	OE1-CD-NE2	6.96	137.91	121.90
35	BP	123	TYR	CD1-CG-CD2	6.95	125.55	117.90
18	B3	1214	G	C2'-C3'-O3'	6.94	124.81	113.70
27	BH	162	GLN	OE1-CD-NE2	6.94	137.87	121.90
24	BE	99	TYR	CG-CD1-CE1	-6.94	115.75	121.30
18	B3	1379	A	C2'-C3'-O3'	6.93	124.79	113.70
31	BL	162	GLY	N-CA-C	-6.93	95.78	113.10
38	BS	21	PHE	CA-CB-CG	-6.93	97.28	113.90
40	BU	42	GLN	OE1-CD-NE2	6.92	137.81	121.90
33	BN	129	TYR	CA-CB-CG	-6.91	100.27	113.40
29	BJ	46	GLN	OE1-CD-NE2	6.90	137.78	121.90
46	BZ	81	GLN	OE1-CD-NE2	6.90	137.76	121.90
31	BL	137	GLN	OE1-CD-NE2	6.89	137.75	121.90
33	BN	27	ASN	OD1-CG-ND2	6.89	137.74	121.90
28	BI	100	ASN	OD1-CG-ND2	6.87	137.71	121.90
21	BB	143	ASN	OD1-CG-ND2	6.87	137.69	121.90
18	B3	196	G	C2'-C3'-O3'	6.85	124.67	113.70
28	BI	158	LYS	CA-CB-CG	-6.85	98.33	113.40
18	B3	2158	A	N9-C1'-C2'	6.85	122.90	114.00
36	BQ	14	MET	CG-SD-CE	-6.82	89.29	100.20
22	BC	153	TYR	CB-CA-C	-6.82	96.76	110.40
18	B3	1690	C	C2'-C3'-O3'	6.82	124.61	113.70
18	B3	856	G	N9-C1'-C2'	6.77	122.80	114.00
21	BB	174	VAL	N-CA-C	-6.76	92.76	111.00
33	BN	46	TYR	CG-CD2-CE2	-6.74	115.91	121.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B3	1979	G	C2'-C3'-O3'	6.74	124.49	113.70
33	BN	59	PHE	CA-CB-CG	-6.74	97.73	113.90
35	BP	123	TYR	CG-CD2-CE2	-6.68	115.95	121.30
29	BJ	101	PHE	N-CA-CB	6.64	122.56	110.60
27	BH	180	TYR	CA-CB-CG	-6.64	100.79	113.40
21	BB	195	TRP	CB-CG-CD2	-6.63	117.98	126.60
21	BB	175	ASP	CA-CB-CG	-6.63	98.82	113.40
21	BB	136	ILE	C-N-CA	-6.61	108.42	122.30
32	BM	53	TYR	CA-CB-CG	-6.58	100.90	113.40
23	BD	38	PHE	CB-CG-CD2	-6.58	116.20	120.80
1	AA	760	G	N9-C1'-C2'	-6.58	104.77	112.00
31	BL	25	ARG	CB-CG-CD	6.57	128.69	111.60
18	B3	548	U	C2'-C3'-O3'	6.57	124.21	113.70
22	BC	271	TYR	CB-CG-CD1	-6.56	117.06	121.00
1	AA	1067	A	C2'-C3'-O3'	6.53	124.15	113.70
1	AA	1502	A	N9-C1'-C2'	6.53	122.49	114.00
33	BN	46	TYR	N-CA-C	-6.52	93.40	111.00
23	BD	124	ALA	CB-CA-C	-6.52	100.32	110.10
18	B3	2338	G	P-O3'-C3'	6.50	127.51	119.70
39	BT	83	PHE	CB-CA-C	-6.50	97.40	110.40
35	BP	22	TRP	CB-CA-C	-6.49	97.42	110.40
27	BH	77	ASN	CA-CB-CG	-6.47	99.16	113.40
18	B3	1995	G	N9-C1'-C2'	6.47	122.41	114.00
18	B3	2133	U	OP2-P-O3'	-6.46	91.00	105.20
18	B3	1206	C	OP2-P-O3'	6.45	119.40	105.20
22	BC	231	ARG	N-CA-C	-6.44	93.61	111.00
30	BK	22	VAL	C-N-CA	6.43	135.80	122.30
32	BM	37	ALA	N-CA-C	-6.42	93.67	111.00
24	BE	33	ARG	N-CA-CB	6.41	122.14	110.60
32	BM	111	TYR	CB-CG-CD2	-6.41	117.15	121.00
24	BE	32	GLN	N-CA-C	-6.40	93.71	111.00
1	AA	115	G	C2'-C3'-O3'	6.40	123.93	113.70
46	BZ	42	TYR	CB-CG-CD1	6.40	124.84	121.00
26	BG	186	GLY	N-CA-C	-6.39	97.13	113.10
18	B3	1072	G	N9-C1'-C2'	6.38	122.30	114.00
22	BC	20	ARG	NE-CZ-NH1	6.36	123.48	120.30
28	BI	71	CYS	N-CA-C	-6.29	94.00	111.00
28	BI	58	GLU	C-N-CA	6.29	137.42	121.70
18	B3	2090	G	C2'-C3'-O3'	6.29	123.76	113.70
22	BC	74	ALA	N-CA-C	-6.28	94.03	111.00
24	BE	24	ARG	N-CA-C	-6.28	94.04	111.00
41	BV	139	ALA	N-CA-C	-6.28	94.06	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B3	2692	G	O4'-C1'-N9	6.27	113.22	108.20
1	AA	509	A	C2'-C3'-O3'	6.26	123.72	113.70
1	AA	372	C	C2'-C3'-O3'	6.25	123.69	113.70
29	BJ	70	VAL	CB-CA-C	-6.24	99.54	111.40
23	BD	64	TRP	CG-CD2-CE3	-6.23	128.30	133.90
31	BL	62	ARG	NE-CZ-NH1	-6.22	117.19	120.30
35	BP	32	ALA	N-CA-C	-6.22	94.22	111.00
22	BC	270	GLY	C-N-CA	6.21	137.23	121.70
39	BT	94	ILE	CB-CA-C	-6.21	99.19	111.60
24	BE	165	GLY	N-CA-C	-6.20	97.61	113.10
26	BG	176	TYR	CB-CG-CD2	-6.20	117.28	121.00
1	AA	460	A	N9-C1'-C2'	6.18	122.03	114.00
22	BC	50	ALA	N-CA-C	-6.18	94.32	111.00
25	BF	137	TYR	CB-CA-C	-6.18	98.04	110.40
38	BS	11	ALA	N-CA-CB	6.17	118.74	110.10
27	BH	94	TYR	CA-CB-CG	-6.17	101.68	113.40
29	BJ	76	GLU	N-CA-CB	6.17	121.70	110.60
24	BE	102	GLY	N-CA-C	-6.16	97.70	113.10
18	B3	1126	C	C2'-C3'-O3'	6.14	123.53	113.70
18	B3	2083	A	C2'-C3'-O3'	6.14	123.52	113.70
18	B3	1682	A	N9-C1'-C2'	6.14	121.98	114.00
7	AG	188	THR	C-N-CA	6.13	137.02	121.70
18	B3	1214	G	C4'-C3'-O3'	6.13	125.26	113.00
18	B3	2395	A	C2'-C3'-O3'	6.12	123.49	113.70
28	BI	158	LYS	N-CA-CB	6.11	121.61	110.60
29	BJ	136	ARG	N-CA-C	-6.11	94.50	111.00
21	BB	198	THR	C-N-CA	-6.11	106.42	121.70
47	B9	68	TYR	CA-CB-CG	-6.11	101.80	113.40
4	AC	119	TYR	CB-CA-C	-6.10	98.19	110.40
31	BL	97	LEU	N-CA-C	-6.09	94.55	111.00
5	AD	37	LYS	C-N-CA	-6.08	106.49	121.70
1	AA	1528	U	C4'-C3'-O3'	6.08	125.16	113.00
24	BE	187	THR	CB-CA-C	-6.05	95.25	111.60
15	AO	77	ASN	C-N-CA	-6.05	109.59	122.30
24	BE	208	MET	N-CA-C	-6.05	94.66	111.00
21	BB	161	ALA	C-N-CA	6.04	136.80	121.70
28	BI	70	ILE	C-N-CA	6.04	136.79	121.70
33	BN	88	LYS	N-CA-C	-6.04	94.70	111.00
30	BK	75	PRO	C-N-CA	6.02	136.76	121.70
39	BT	83	PHE	C-N-CA	-6.02	106.64	121.70
29	BJ	77	GLU	C-N-CA	6.00	136.69	121.70
31	BL	66	ARG	N-CA-C	-6.00	94.81	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BG	199	LEU	C-N-CA	5.99	136.69	121.70
42	B0	73	THR	C-N-CA	-5.98	106.75	121.70
28	BI	22	TYR	CB-CG-CD1	-5.97	117.42	121.00
41	BV	47	TYR	CB-CA-C	-5.97	98.46	110.40
31	BL	129	PHE	N-CA-C	-5.96	94.90	111.00
38	BS	29	PHE	CB-CG-CD1	-5.95	116.63	120.80
43	BW	59	TRP	CB-CG-CD2	-5.95	118.87	126.60
18	B3	2258	A	C2'-C3'-O3'	5.94	123.21	113.70
23	BD	24	VAL	C-N-CA	5.94	136.54	121.70
23	BD	122	ALA	C-N-CA	5.94	136.54	121.70
41	BV	52	PHE	N-CA-C	-5.94	94.97	111.00
18	B3	191	A	C4'-C3'-O3'	5.93	124.86	113.00
22	BC	313	TYR	CB-CG-CD2	-5.93	117.44	121.00
24	BE	187	THR	N-CA-CB	5.93	121.56	110.30
32	BM	94	GLY	N-CA-C	-5.92	98.29	113.10
44	BX	49	LYS	N-CA-CB	5.92	121.26	110.60
17	AS	80	MET	CG-SD-CE	-5.91	90.75	100.20
24	BE	104	LEU	CA-CB-CG	-5.91	101.72	115.30
23	BD	134	VAL	N-CA-C	-5.90	95.06	111.00
31	BL	5	TYR	C-N-CA	-5.90	106.95	121.70
18	B3	1120	U	C5'-C4'-C3'	-5.88	106.60	116.00
24	BE	86	TYR	CA-CB-CG	-5.87	102.26	113.40
26	BG	199	LEU	CB-CA-C	-5.86	99.06	110.20
21	BB	202	ALA	N-CA-C	-5.85	95.19	111.00
9	AI	100	SER	C-N-CA	5.84	136.31	121.70
31	BL	115	LEU	N-CA-C	-5.84	95.23	111.00
37	BR	27	ASP	CA-CB-CG	-5.83	100.58	113.40
24	BE	159	VAL	CG1-CB-CG2	5.82	120.22	110.90
37	BR	27	ASP	C-N-CA	5.82	136.26	121.70
37	BR	91	VAL	C-N-CA	-5.82	107.16	121.70
18	B3	1524	U	N1-C1'-C2'	-5.79	105.63	112.00
38	BS	51	TRP	CB-CG-CD2	-5.79	119.08	126.60
24	BE	168	ASP	CA-CB-CG	-5.78	100.67	113.40
9	AI	103	GLU	N-CA-C	5.78	126.59	111.00
24	BE	87	GLY	C-N-CA	-5.76	107.29	121.70
24	BE	79	TYR	N-CA-CB	5.76	120.97	110.60
24	BE	166	ALA	C-N-CA	5.75	136.06	121.70
31	BL	25	ARG	CA-CB-CG	5.75	126.04	113.40
37	BR	130	ALA	N-CA-C	-5.74	95.50	111.00
9	AI	105	LYS	N-CA-CB	5.73	120.91	110.60
46	BZ	49	PHE	CB-CG-CD1	5.73	124.81	120.80
23	BD	237	LEU	CB-CA-C	-5.71	99.34	110.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BG	177	ALA	CB-CA-C	-5.71	101.54	110.10
35	BP	9	LEU	CA-CB-CG	-5.70	102.19	115.30
28	BI	11	TYR	CB-CG-CD1	-5.69	117.59	121.00
47	B9	21	LEU	N-CA-C	-5.68	95.65	111.00
29	BJ	95	PHE	N-CA-CB	5.68	120.83	110.60
28	BI	16	PRO	C-N-CA	5.68	135.89	121.70
18	B3	1448	A	C2'-C3'-O3'	5.67	122.78	113.70
1	AA	1380	U	C2'-C3'-O3'	5.66	122.75	113.70
38	BS	35	LYS	N-CA-C	-5.66	95.72	111.00
37	BR	28	ASN	N-CA-C	-5.65	95.74	111.00
36	BQ	30	TYR	CB-CG-CD2	-5.65	117.61	121.00
23	BD	136	ALA	N-CA-C	-5.65	95.75	111.00
21	BB	53	ARG	CD-NE-CZ	-5.65	115.70	123.60
1	AA	266	G	C5'-C4'-C3'	-5.64	106.97	116.00
9	AI	48	TYR	CA-CB-CG	-5.63	102.70	113.40
24	BE	183	TRP	N-CA-C	-5.63	95.80	111.00
22	BC	49	LYS	C-N-CA	5.62	135.76	121.70
5	AD	37	LYS	N-CA-C	-5.62	95.84	111.00
23	BD	99	PHE	N-CA-C	-5.62	95.84	111.00
26	BG	149	LEU	CB-CA-C	-5.62	99.53	110.20
26	BG	185	LEU	CA-CB-CG	-5.61	102.39	115.30
27	BH	92	TYR	CB-CA-C	-5.61	99.19	110.40
22	BC	198	PHE	CB-CG-CD1	-5.60	116.88	120.80
42	B0	83	GLU	N-CA-C	-5.60	95.88	111.00
18	B3	2506	A	N9-C1'-C2'	-5.59	105.85	112.00
19	B4	39	U	N1-C1'-C2'	5.59	121.27	114.00
33	BN	90	VAL	N-CA-C	-5.58	95.94	111.00
23	BD	49	TYR	CA-CB-CG	-5.57	102.82	113.40
22	BC	198	PHE	CA-CB-CG	-5.56	100.56	113.90
22	BC	270	GLY	N-CA-C	-5.55	99.23	113.10
21	BB	233	LYS	N-CA-C	-5.54	96.03	111.00
31	BL	105	VAL	N-CA-C	-5.54	96.04	111.00
22	BC	313	TYR	CD1-CG-CD2	5.54	123.99	117.90
31	BL	45	ASP	CA-CB-CG	-5.53	101.24	113.40
31	BL	25	ARG	C-N-CA	5.53	135.52	121.70
38	BS	25	ASP	CA-CB-CG	-5.53	101.24	113.40
18	B3	1819	G	C5'-C4'-C3'	5.53	124.84	116.00
35	BP	10	ALA	N-CA-C	-5.52	96.09	111.00
1	AA	1065	U	C1'-O4'-C4'	-5.52	105.48	109.90
28	BI	57	LEU	C-N-CA	-5.51	107.92	121.70
26	BG	185	LEU	N-CA-CB	5.51	121.42	110.40
1	AA	1124	G	N9-C1'-C2'	5.51	121.16	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BE	203	HIS	N-CA-C	-5.50	96.15	111.00
4	AC	33	TYR	CB-CG-CD2	-5.50	117.70	121.00
28	BI	67	ALA	N-CA-C	-5.49	96.19	111.00
31	BL	103	GLU	N-CA-C	-5.47	96.22	111.00
24	BE	30	TYR	CB-CG-CD1	-5.47	117.72	121.00
2	AT	110	ASP	N-CA-C	-5.47	96.24	111.00
28	BI	17	TYR	CB-CG-CD2	-5.47	117.72	121.00
27	BH	78	MET	N-CA-C	-5.47	96.24	111.00
44	BX	48	ARG	N-CA-C	-5.47	96.24	111.00
18	B3	1108	G	C2'-C3'-O3'	5.46	122.44	113.70
42	B0	82	LEU	N-CA-C	-5.46	96.25	111.00
31	BL	171	ARG	N-CA-C	-5.46	96.27	111.00
31	BL	62	ARG	CD-NE-CZ	-5.45	115.97	123.60
21	BB	173	ARG	C-N-CA	5.45	135.33	121.70
40	BU	20	PHE	CA-CB-CG	-5.44	100.85	113.90
18	B3	2205	G	OP2-P-O3'	5.43	117.16	105.20
21	BB	188	TYR	N-CA-C	-5.43	96.33	111.00
31	BL	5	TYR	CB-CG-CD2	-5.43	117.74	121.00
32	BM	96	ALA	N-CA-C	-5.43	96.33	111.00
32	BM	78	ILE	C-N-CA	-5.42	108.14	121.70
32	BM	137	LEU	CB-CA-C	-5.42	99.89	110.20
47	B9	17	TYR	CB-CG-CD1	-5.42	117.75	121.00
36	BQ	12	ARG	CD-NE-CZ	-5.42	116.01	123.60
21	BB	195	TRP	CB-CG-CD1	5.42	134.04	127.00
1	AA	353	A	C5'-C4'-O4'	-5.41	102.61	109.10
33	BN	82	TRP	CA-C-N	5.40	132.21	117.10
32	BM	44	GLY	C-N-CA	-5.39	108.21	121.70
17	AS	114	HIS	C-N-CA	5.39	135.18	121.70
34	BO	65	SER	N-CA-C	-5.39	96.44	111.00
1	AA	1504	G	C4'-C3'-C2'	5.39	107.99	102.60
28	BI	94	PHE	CA-CB-CG	-5.39	100.97	113.90
42	B0	114	ALA	N-CA-C	-5.38	96.47	111.00
18	B3	2914	A	C2'-C3'-O3'	5.38	122.31	113.70
21	BB	208	HIS	CB-CA-C	-5.37	99.67	110.40
34	BO	132	PRO	N-CA-C	-5.36	98.15	112.10
39	BT	79	ASN	C-N-CA	-5.36	108.30	121.70
31	BL	130	GLU	CB-CG-CD	-5.36	99.73	114.20
31	BL	130	GLU	N-CA-C	-5.36	96.53	111.00
18	B3	1214	G	C4'-C3'-C2'	5.35	107.95	102.60
11	AK	31	ASP	CB-CA-C	-5.34	99.72	110.40
34	BO	67	ILE	N-CA-C	-5.34	96.58	111.00
1	AA	993	G	N9-C1'-C2'	5.34	120.94	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	BH	97	PHE	CB-CG-CD1	-5.34	117.06	120.80
1	AA	203	U	N1-C1'-C2'	5.32	120.92	114.00
18	B3	600	G	C4'-C3'-O3'	5.32	123.64	113.00
29	BJ	95	PHE	CB-CG-CD2	-5.32	117.08	120.80
23	BD	127	ALA	C-N-CA	5.32	134.99	121.70
21	BB	221	ALA	N-CA-CB	5.31	117.54	110.10
31	BL	5	TYR	CA-CB-CG	-5.31	103.30	113.40
31	BL	108	ARG	N-CA-C	-5.31	96.65	111.00
11	AK	52	ASP	N-CA-CB	5.30	120.15	110.60
26	BG	166	PRO	N-CA-C	-5.30	98.32	112.10
46	BZ	49	PHE	CB-CG-CD2	-5.30	117.09	120.80
33	BN	31	THR	N-CA-C	-5.29	96.71	111.00
29	BJ	76	GLU	CB-CG-CD	-5.29	99.92	114.20
23	BD	136	ALA	C-N-CA	-5.29	108.48	121.70
1	AA	484	G	C2'-C3'-O3'	5.28	122.15	113.70
31	BL	3	TYR	CA-CB-CG	-5.28	103.36	113.40
36	BQ	65	TYR	CB-CG-CD2	-5.28	117.83	121.00
18	B3	777	U	O4'-C1'-N1	5.28	112.42	108.20
22	BC	309	GLY	C-N-CA	-5.27	108.53	121.70
43	BW	9	ARG	CD-NE-CZ	-5.27	116.23	123.60
31	BL	47	ALA	N-CA-C	-5.26	96.78	111.00
35	BP	23	LEU	N-CA-C	-5.26	96.79	111.00
18	B3	452	G	C2'-C3'-O3'	5.26	122.11	113.70
18	B3	1683	G	C2'-C3'-O3'	5.25	122.11	113.70
9	AI	13	LYS	C-N-CA	-5.24	108.59	121.70
40	BU	74	TYR	CB-CG-CD1	5.24	124.14	121.00
1	AA	389	A	C5'-C4'-C3'	5.24	124.38	116.00
31	BL	5	TYR	CD1-CG-CD2	5.24	123.66	117.90
18	B3	1907	U	C4'-C3'-O3'	5.24	123.47	113.00
1	AA	1503	A	C2'-C3'-O3'	5.24	122.08	113.70
3	AB	35	TYR	CA-CB-CG	-5.23	103.46	113.40
24	BE	108	ARG	N-CA-C	-5.23	96.88	111.00
35	BP	110	ASP	N-CA-C	-5.23	96.88	111.00
25	BF	102	LEU	N-CA-C	-5.22	96.90	111.00
47	B9	54	TRP	CB-CG-CD2	-5.22	119.81	126.60
21	BB	140	PRO	N-CA-C	-5.22	98.53	112.10
46	BZ	22	HIS	CB-CG-ND1	-5.22	110.16	123.20
27	BH	117	PHE	CB-CA-C	-5.21	99.97	110.40
34	BO	101	VAL	CG1-CB-CG2	5.21	119.24	110.90
39	BT	110	ASN	CA-CB-CG	-5.21	101.94	113.40
20	BA	12	HIS	CA-CB-CG	5.21	122.45	113.60
45	BY	30	LYS	N-CA-C	-5.21	96.95	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B4	1	U	N1-C1'-C2'	5.20	120.76	114.00
28	BI	151	GLY	N-CA-C	-5.20	100.09	113.10
36	BQ	84	TYR	CB-CG-CD2	-5.20	117.88	121.00
4	AC	170	ALA	CB-CA-C	-5.20	102.30	110.10
29	BJ	78	ILE	N-CA-C	-5.20	96.96	111.00
45	BY	48	TRP	CB-CG-CD1	5.20	133.76	127.00
26	BG	185	LEU	CB-CA-C	-5.19	100.33	110.20
23	BD	99	PHE	C-N-CA	-5.19	108.73	121.70
31	BL	129	PHE	CB-CG-CD2	-5.18	117.17	120.80
18	B3	2316	G	N9-C1'-C2'	5.18	120.73	114.00
37	BR	83	LYS	N-CA-C	-5.18	97.02	111.00
22	BC	284	VAL	C-N-CA	-5.18	111.43	122.30
24	BE	116	ASP	N-CA-CB	5.18	119.92	110.60
26	BG	133	TYR	CA-CB-CG	5.18	123.23	113.40
22	BC	75	VAL	CG1-CB-CG2	5.17	119.18	110.90
35	BP	65	HIS	CB-CG-ND1	-5.17	110.26	123.20
9	AI	104	LEU	CB-CA-C	-5.17	100.37	110.20
28	BI	86	HIS	CB-CG-ND1	-5.17	110.27	123.20
31	BL	48	ARG	NE-CZ-NH2	-5.17	117.71	120.30
37	BR	131	SER	N-CA-C	-5.17	97.04	111.00
35	BP	71	GLU	C-N-CA	-5.17	111.44	122.30
24	BE	25	GLU	CA-CB-CG	-5.17	102.04	113.40
45	BY	30	LYS	CA-CB-CG	5.16	124.76	113.40
22	BC	314	GLY	C-N-CA	5.16	134.59	121.70
18	B3	535	G	N9-C1'-C2'	5.16	120.70	114.00
46	BZ	41	ARG	C-N-CA	-5.16	108.81	121.70
24	BE	209	GLU	CB-CG-CD	-5.15	100.30	114.20
41	BV	135	GLU	CB-CG-CD	-5.14	100.31	114.20
9	AI	100	SER	N-CA-C	5.14	124.88	111.00
38	BS	31	PHE	CB-CA-C	-5.14	100.11	110.40
37	BR	98	ASN	CA-CB-CG	-5.14	102.09	113.40
18	B3	1615	A	C5'-C4'-C3'	5.14	124.22	116.00
1	AA	181	G	C4'-C3'-O3'	5.13	123.26	113.00
18	B3	2074	A	N9-C1'-C2'	5.13	120.67	114.00
44	BX	19	SER	N-CA-C	-5.13	97.15	111.00
1	AA	63	C	C5'-C4'-C3'	-5.13	107.80	116.00
27	BH	99	ILE	CB-CA-C	-5.13	101.35	111.60
32	BM	107	ILE	N-CA-C	-5.13	97.16	111.00
22	BC	242	HIS	CB-CG-ND1	-5.12	110.39	123.20
41	BV	54	LYS	N-CA-C	-5.12	97.17	111.00
29	BJ	69	THR	N-CA-C	-5.12	97.18	111.00
1	AA	1085	U	N1-C1'-C2'	5.12	120.65	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B3	1369	A	N9-C1'-C2'	5.12	120.65	114.00
24	BE	112	ARG	N-CA-CB	5.12	119.81	110.60
18	B3	2526	C	C2'-C3'-O3'	5.11	121.87	113.70
34	BO	100	THR	C-N-CA	-5.11	108.93	121.70
1	AA	686	U	C5'-C4'-C3'	-5.10	107.83	116.00
17	AS	119	PHE	CA-CB-CG	-5.10	101.65	113.90
31	BL	52	TYR	CA-CB-CG	-5.10	103.71	113.40
18	B3	1835	U	C4'-C3'-O3'	5.09	123.18	113.00
25	BF	132	TYR	CB-CA-C	-5.09	100.22	110.40
18	B3	2427	C	C4'-C3'-O3'	5.09	123.17	113.00
35	BP	109	ARG	N-CA-CB	5.09	119.75	110.60
34	BO	64	VAL	C-N-CA	5.08	134.40	121.70
27	BH	118	LEU	N-CA-C	-5.07	97.32	111.00
22	BC	20	ARG	N-CA-C	-5.07	97.32	111.00
31	BL	171	ARG	C-N-CA	-5.06	111.67	122.30
3	AB	67	PRO	CA-N-CD	-5.06	104.42	111.50
12	AL	106	GLY	N-CA-C	-5.06	100.45	113.10
18	B3	2506	A	O4'-C1'-N9	5.06	112.25	108.20
26	BG	110	LYS	N-CA-C	-5.06	97.35	111.00
26	BG	199	LEU	CA-C-N	-5.06	106.07	117.20
28	BI	84	ALA	N-CA-CB	5.06	117.18	110.10
46	BZ	10	TYR	CB-CG-CD2	-5.06	117.97	121.00
31	BL	186	ARG	N-CA-C	-5.05	97.35	111.00
45	BY	35	SER	N-CA-C	-5.05	97.36	111.00
33	BN	129	TYR	CB-CG-CD1	-5.05	117.97	121.00
18	B3	894	A	C4'-C3'-O3'	5.04	123.08	113.00
28	BI	73	ASN	CA-CB-CG	-5.04	102.32	113.40
33	BN	99	ALA	N-CA-CB	5.04	117.15	110.10
25	BF	135	TYR	CB-CG-CD1	-5.03	117.98	121.00
31	BL	132	ILE	N-CA-C	-5.03	97.41	111.00
26	BG	184	ARG	C-N-CA	-5.03	109.12	121.70
33	BN	46	TYR	CB-CG-CD2	5.03	124.02	121.00
29	BJ	72	GLY	CA-C-N	5.03	131.18	117.10
21	BB	85	GLN	N-CA-CB	5.03	119.65	110.60
40	BU	19	TYR	CB-CG-CD2	-5.03	117.98	121.00
35	BP	32	ALA	N-CA-CB	5.02	117.13	110.10
4	AC	149	MET	CG-SD-CE	-5.02	92.17	100.20
9	AI	104	LEU	N-CA-C	5.02	124.54	111.00
1	AA	960	U	C2'-C3'-O3'	5.01	121.72	113.70
32	BM	23	ALA	N-CA-C	-5.01	97.48	111.00
18	B3	2167	A	N9-C1'-C2'	5.00	120.51	114.00
27	BH	97	PHE	CA-CB-CG	-5.00	101.89	113.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	976	G	C5'-C4'-O4'	5.00	115.10	109.10
45	BY	20	ARG	C-N-CA	5.00	134.21	121.70

All (25) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	181	G	C3'
1	AA	1493	A	C3'
1	AA	1504	G	C3'
1	AA	1528	U	C3'
18	B3	191	A	C3'
18	B3	282	C	C3'
18	B3	600	G	C3'
18	B3	713	U	C3'
18	B3	894	A	C3'
18	B3	904	U	C3'
18	B3	1214	G	C3'
18	B3	1309	U	C3'
18	B3	1699	C	C3'
18	B3	1835	U	C3'
18	B3	1853	C	C3'
18	B3	1907	U	C3'
18	B3	1981	A	C3'
18	B3	2083	A	C3'
18	B3	2427	C	C3'
18	B3	2482	G	C3'
18	B3	2692	G	C1'
18	B3	2714	U	C3'
18	B3	2749	U	C3'
19	B4	1	U	C1'
19	B4	3	A	C3'

All (102) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1048	G	Sidechain
1	AA	1073	U	Sidechain
1	AA	1079	G	Sidechain
1	AA	1085	U	Sidechain
1	AA	1092	A	Sidechain
1	AA	12	U	Sidechain
1	AA	1281	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1289	A	Sidechain
1	AA	1293	G	Sidechain
1	AA	1299	A	Sidechain
1	AA	1301	U	Sidechain
1	AA	1305	G	Sidechain
1	AA	1360	A	Sidechain
1	AA	1506	U	Sidechain
1	AA	1525	G	Sidechain
1	AA	197	A	Sidechain
1	AA	203	U	Sidechain
1	AA	231	G	Sidechain
1	AA	249	U	Sidechain
1	AA	250	A	Sidechain
1	AA	251	G	Sidechain
1	AA	254	G	Sidechain
1	AA	266	G	Sidechain
1	AA	274	A	Sidechain
1	AA	290	C	Sidechain
1	AA	297	G	Sidechain
1	AA	305	G	Sidechain
1	AA	380	G	Sidechain
1	AA	481	G	Sidechain
1	AA	51	A	Sidechain
1	AA	573	A	Sidechain
1	AA	575	G	Sidechain
1	AA	603	U	Sidechain
1	AA	727	G	Sidechain
1	AA	879	C	Sidechain
1	AA	898	G	Sidechain
1	AA	982	U	Sidechain
18	B3	1122	U	Sidechain
18	B3	1173	A	Sidechain
18	B3	1342	C	Sidechain
18	B3	138	U	Sidechain
18	B3	1417	G	Sidechain
18	B3	1430	G	Sidechain
18	B3	1524	U	Sidechain
18	B3	1525	G	Sidechain
18	B3	1555	G	Sidechain
18	B3	1614	G	Sidechain
18	B3	1682	A	Sidechain
18	B3	1809	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
18	B3	1819	G	Sidechain
18	B3	1829	A	Sidechain
18	B3	1848	G	Sidechain
18	B3	1863	G	Sidechain
18	B3	1867	G	Sidechain
18	B3	1877	G	Sidechain
18	B3	1878	G	Sidechain
18	B3	189	A	Sidechain
18	B3	1972	U	Sidechain
18	B3	1979	G	Sidechain
18	B3	1995	G	Sidechain
18	B3	2158	A	Sidechain
18	B3	2170	G	Sidechain
18	B3	2213	G	Sidechain
18	B3	2312	G	Sidechain
18	B3	2313	C	Sidechain
18	B3	2463	A	Sidechain
18	B3	2493	C	Sidechain
18	B3	2503	A	Sidechain
18	B3	2506	A	Sidechain
18	B3	2543	G	Sidechain
18	B3	2564	G	Sidechain
18	B3	2607	U	Sidechain
18	B3	262	A	Sidechain
18	B3	2630	G	Sidechain
18	B3	270	U	Sidechain
18	B3	2842	G	Sidechain
18	B3	2866	U	Sidechain
18	B3	333	G	Sidechain
18	B3	396	U	Sidechain
18	B3	482	G	Sidechain
18	B3	485	A	Sidechain
18	B3	518	G	Sidechain
18	B3	529	G	Sidechain
18	B3	791	A	Sidechain
47	B9	22	ARG	Sidechain
21	BB	173	ARG	Sidechain
21	BB	53	ARG	Sidechain
22	BC	20	ARG	Sidechain
28	BI	17	TYR	Peptide
28	BI	69	ARG	Sidechain
29	BJ	132	ARG	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
30	BK	75	PRO	Mainchain
31	BL	187	ARG	Sidechain
32	BM	37	ALA	Peptide
32	BM	84	ARG	Sidechain
33	BN	17	ARG	Sidechain
34	BO	130	ARG	Sidechain
34	BO	66	ARG	Sidechain
35	BP	99	ARG	Sidechain
38	BS	30	ARG	Sidechain
40	BU	22	ALA	Peptide
41	BV	48	HIS	Peptide

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	AA	31507	0	15705	4692	0
2	AT	6375	0	6431	574	0
3	AB	1438	0	1465	366	0
4	AC	1469	0	1534	306	0
5	AD	1424	0	1448	585	0
6	AE	1099	0	1150	351	0
7	AG	1161	0	1217	318	0
8	AH	1004	0	1033	415	0
9	AI	1094	0	1138	718	0
10	AJ	777	0	828	415	0
11	AK	925	0	935	342	0
12	AL	906	0	955	480	0
13	AM	1084	0	1091	719	0
14	AN	235	0	228	263	0
15	AO	552	0	597	174	0
16	AQ	618	0	655	359	0
17	AS	622	0	625	552	0
18	B3	59964	0	29926	9142	0
19	B4	2600	0	1308	630	0
20	BA	1682	0	1750	644	0
21	BB	1855	0	1912	1147	0
22	BC	2856	0	2895	1961	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	BD	1942	0	1964	1382	0
24	BE	1799	0	1710	1194	0
25	BF	1298	0	1365	687	0
26	BG	886	0	953	454	0
27	BH	1410	0	1472	794	0
28	BI	1326	0	1355	735	0
29	BJ	1319	0	1334	777	0
30	BK	978	0	1045	469	0
31	BL	1637	0	1668	873	0
32	BM	1165	0	1243	670	0
33	BN	1163	0	1157	768	0
34	BO	925	0	998	447	0
35	BP	1145	0	1215	793	0
36	BQ	795	0	804	454	0
37	BR	977	0	1008	673	0
38	BS	439	0	445	249	0
39	BT	614	0	635	429	0
40	BU	911	0	987	583	0
41	BV	1133	0	1163	782	0
42	B0	880	0	911	664	0
43	BW	654	0	689	315	0
44	BX	461	0	512	338	0
45	BY	402	0	389	346	0
46	BZ	740	0	798	422	0
47	B9	546	0	556	396	0
All	All	146792	0	101202	29887	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 121.

All (29887) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:H5'	13:AM:98:TYR:CG	1.25	1.70
18:B3:1694:G:C2	45:BY:5:PRO:HG2	1.20	1.70
18:B3:541:C:C5	42:B0:15:LYS:HG3	1.20	1.69
1:AA:1178:G:P	9:AI:105:LYS:HG2	1.34	1.68
18:B3:2388:C:P	36:BQ:88:ARG:HB3	1.34	1.67
1:AA:319:G:C4	1:AA:1434:A:C2	1.78	1.67
18:B3:2050:G:H8	33:BN:82:TRP:CE3	1.09	1.67
18:B3:1415:G:C5'	45:BY:13:LYS:HE2	1.23	1.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:448:G:C2	23:BD:47:GLN:HG2	1.17	1.67
18:B3:541:C:C6	42:B0:15:LYS:HG3	1.27	1.66
31:BL:82:LYS:HD2	46:BZ:49:PHE:CD1	1.29	1.66
18:B3:1181:A:C2	30:BK:105:GLN:HB3	1.28	1.66
1:AA:1318:A:C2	17:AS:82:ASN:HB3	1.32	1.66
21:BB:179:LEU:CD2	47:B9:21:LEU:HD12	1.22	1.65
1:AA:956:U:H1'	17:AS:126:VAL:CG2	1.19	1.65
18:B3:693:A:H4'	41:BV:59:TYR:CE1	1.21	1.65
19:B4:97:U:C2	25:BF:220:LYS:HD3	1.19	1.65
19:B4:119:C:C6	24:BE:71:GLY:HA2	1.25	1.65
18:B3:672:G:C8	23:BD:214:ILE:HG22	1.15	1.64
18:B3:2468:A:C2	46:BZ:54:LYS:HB3	1.12	1.64
24:BE:16:PHE:HA	36:BQ:19:PHE:CZ	1.24	1.64
1:AA:130:A:C8	16:AQ:135:ARG:HA	1.33	1.64
18:B3:953:G:H3'	36:BQ:13:TYR:CE2	1.21	1.64
18:B3:1689:A:C2	33:BN:128:THR:HG23	1.27	1.64
19:B4:51:A:C2	24:BE:58:LYS:HG2	1.20	1.64
1:AA:538:G:C5'	12:AL:141:GLU:HA	1.23	1.64
18:B3:487:G:H3'	40:BU:90:VAL:CG1	1.20	1.63
18:B3:1206:C:H2'	18:B3:1207:A:C8	1.27	1.63
18:B3:2526:C:H4'	18:B3:2605:G:C5'	1.20	1.63
18:B3:67:A:C3'	44:BX:55:LEU:CD2	1.76	1.63
1:AA:1300:G:H5'	13:AM:30:TYR:CE1	1.13	1.63
1:AA:190(E):U:P	16:AQ:130:ILE:HD11	1.35	1.63
18:B3:2312:G:H5'	28:BI:22:TYR:CD1	1.33	1.63
18:B3:2244:A:H5''	31:BL:27:TRP:CH2	1.24	1.63
1:AA:1329:A:H5'	13:AM:98:TYR:CD1	1.13	1.63
18:B3:1705:C:H4'	35:BP:62:THR:CB	1.28	1.63
1:AA:1362:C:C2	13:AM:137:HIS:HE1	0.98	1.62
31:BL:82:LYS:CD	46:BZ:49:PHE:HD1	1.02	1.62
18:B3:1285:U:H4'	25:BF:155:ILE:CD1	1.19	1.62
18:B3:2468:A:C5	46:BZ:55:PRO:HG3	1.34	1.62
1:AA:1362:C:C2	13:AM:137:HIS:CE1	1.78	1.62
18:B3:2050:G:C8	33:BN:82:TRP:CZ3	1.87	1.61
22:BC:70:GLU:CA	37:BR:88:ARG:HG2	1.21	1.61
1:AA:1318:A:C6	17:AS:56:PHE:CE1	1.84	1.61
31:BL:82:LYS:HE3	46:BZ:49:PHE:CG	1.34	1.61
18:B3:1285:U:C4'	25:BF:155:ILE:HD13	1.29	1.61
1:AA:1240:U:H5'	7:AG:188:THR:CA	1.26	1.61
18:B3:921:G:C4'	41:BV:41:ARG:HG2	1.29	1.61
18:B3:1163:G:C4	30:BK:51:LYS:HG3	1.29	1.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:537:G:H5''	12:AL:143:PRO:CG	1.26	1.61
22:BC:260:MET:CB	32:BM:66:THR:HG21	1.22	1.61
18:B3:1705:C:C4'	35:BP:62:THR:HB	1.22	1.61
18:B3:2336:G:H4'	29:BJ:101:PHE:CZ	1.31	1.61
18:B3:1733:A:C4'	22:BC:226:GLU:HA	1.29	1.60
24:BE:16:PHE:HA	36:BQ:19:PHE:CE2	1.28	1.60
20:BA:43:PRO:CG	20:BA:132:GLY:HA3	1.21	1.60
18:B3:616:U:C2'	42:B0:47:ARG:HG2	1.12	1.60
1:AA:1318:A:C5	17:AS:56:PHE:HE1	1.05	1.60
1:AA:1318:A:C6	17:AS:56:PHE:HE1	1.13	1.60
18:B3:2415:A:H1'	24:BE:39:GLN:CG	1.25	1.60
37:BR:94:TYR:HD1	38:BS:21:PHE:CD2	1.10	1.60
18:B3:1676:G:C3'	39:BT:115:PRO:HD3	1.29	1.60
10:AJ:69:LYS:CB	14:AN:39:ARG:CZ	1.80	1.60
18:B3:2520:G:C5'	28:BI:160:PRO:HA	1.23	1.59
18:B3:1943:C:C5'	21:BB:218:ILE:HD11	1.30	1.59
1:AA:1299:A:N6	13:AM:55:HIS:CE1	1.69	1.59
1:AA:958:A:C4	17:AS:101:ALA:HB1	1.20	1.59
18:B3:1352:A:C5'	23:BD:102:THR:CG2	1.80	1.59
18:B3:2133:U:H4'	18:B3:2134:G:C5'	1.13	1.59
20:BA:54:LYS:HG3	20:BA:156:LYS:CB	1.25	1.59
1:AA:538:G:H5'	12:AL:141:GLU:CA	1.25	1.59
1:AA:620:C:H5'	5:AD:129:ILE:CD1	1.25	1.59
18:B3:2312:G:C5'	28:BI:22:TYR:CE1	1.82	1.59
1:AA:12:U:H4'	1:AA:526:C:C4'	1.26	1.59
10:AJ:78:THR:CG2	14:AN:39:ARG:HE	1.09	1.58
1:AA:66:G:C5'	1:AA:173:U:C2	1.85	1.58
18:B3:2654:C:C1'	22:BC:259:VAL:HG13	1.27	1.58
18:B3:1566:C:H4'	35:BP:56:VAL:CG1	1.11	1.58
18:B3:2335:C:C2	29:BJ:116:ASP:CB	1.85	1.58
18:B3:107:U:H1'	44:BX:56:THR:CB	1.17	1.58
22:BC:69:ARG:HD3	37:BR:89:ASP:CB	1.30	1.58
26:BG:161:LEU:HD22	31:BL:3:TYR:CZ	1.33	1.58
18:B3:902:G:C8	41:BV:21:ILE:HD11	1.37	1.58
18:B3:1814:G:H2'	18:B3:2733:U:C5	1.36	1.58
18:B3:882:A:C1'	45:BY:2:LYS:HG2	1.20	1.58
18:B3:677:C:C4'	23:BD:256:LYS:HE2	1.30	1.58
18:B3:1164:U:C5	30:BK:51:LYS:HG2	1.32	1.58
18:B3:953:G:H5''	36:BQ:13:TYR:CD2	1.34	1.58
10:AJ:75:GLY:HA3	14:AN:40:GLN:CG	1.20	1.58
1:AA:1309:G:C4	13:AM:92:ILE:HB	1.07	1.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:137:VAL:HA	2:AT:481:MET:SD	1.42	1.57
18:B3:1993:C:C1'	37:BR:72:LYS:HG2	1.15	1.57
18:B3:2526:C:C4'	18:B3:2605:G:C5'	1.83	1.57
18:B3:1733:A:H4'	22:BC:226:GLU:CA	1.29	1.57
1:AA:1302:U:H3'	13:AM:54:LEU:CD2	1.32	1.57
10:AJ:70:THR:CA	14:AN:42:PHE:HB3	1.28	1.57
18:B3:2312:G:H5'	28:BI:22:TYR:CE1	1.06	1.57
1:AA:1309:G:C8	13:AM:92:ILE:CG1	1.78	1.56
18:B3:1206:C:C2	18:B3:1207:A:C4	1.90	1.56
1:AA:1419:G:H21	18:B3:1990:C:C5'	1.13	1.56
18:B3:164:G:C4'	41:BV:31:ARG:HG3	1.24	1.56
18:B3:677:C:H4'	23:BD:256:LYS:CE	1.19	1.56
18:B3:2526:C:C4'	18:B3:2605:G:H5'	1.36	1.56
18:B3:1794:G:H4'	35:BP:96:ARG:CG	1.31	1.56
1:AA:1372:U:H5''	9:AI:74:VAL:CG2	1.19	1.56
18:B3:2415:A:C1'	24:BE:39:GLN:HG3	1.30	1.56
18:B3:672:G:H5'	23:BD:214:ILE:CD1	1.30	1.56
18:B3:2845:G:H4'	22:BC:24:ILE:CG2	1.34	1.56
18:B3:2560:C:H5'	27:BH:168:ARG:CD	1.35	1.56
1:AA:12:U:H4'	1:AA:526:C:C5'	1.15	1.56
18:B3:2087:C:C4'	33:BN:78:THR:HG21	1.25	1.55
27:BH:43:VAL:CG1	32:BM:126:LEU:HB2	1.16	1.55
1:AA:920:U:C4'	1:AA:1080:A:H2'	1.27	1.55
18:B3:487:G:C3'	40:BU:90:VAL:HG11	1.34	1.55
10:AJ:73:GLY:C	14:AN:25:SER:HB3	1.21	1.55
18:B3:693:A:H4'	41:BV:59:TYR:CZ	1.35	1.55
1:AA:678:U:C5'	11:AK:127:LYS:HA	1.37	1.55
1:AA:144:G:C6	1:AA:199:G:H5''	1.06	1.55
1:AA:988:G:H4'	1:AA:1014:A:P	1.47	1.55
1:AA:1314:C:N4	17:AS:49:MET:CA	1.70	1.54
1:AA:1318:A:C5	17:AS:56:PHE:CE1	1.87	1.54
18:B3:2087:C:C4'	33:BN:78:THR:CG2	1.84	1.54
1:AA:1071:C:P	6:AE:90:ARG:HB2	1.43	1.54
18:B3:1343:C:H2'	23:BD:188:ALA:CA	1.30	1.54
18:B3:215:A:C5'	41:BV:58:ARG:HD2	1.28	1.54
1:AA:318:G:C2	1:AA:1434:A:C2	1.91	1.54
20:BA:54:LYS:CG	20:BA:156:LYS:HB3	1.33	1.54
18:B3:894:A:C5'	23:BD:57:HIS:HD2	0.93	1.54
18:B3:1243:C:C5'	32:BM:17:ARG:NH2	1.69	1.54
27:BH:43:VAL:HG13	32:BM:126:LEU:CB	1.08	1.54
18:B3:2705:U:H5'	27:BH:122:LYS:CE	1.10	1.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:844:A:C8	33:BN:130:ARG:NH2	1.75	1.53
18:B3:2763:G:H3'	37:BR:14:SER:CB	1.07	1.53
10:AJ:70:THR:HA	14:AN:42:PHE:CB	1.06	1.53
18:B3:215:A:H5''	41:BV:58:ARG:CD	1.14	1.53
1:AA:1086:U:H5''	1:AA:1389:C:C5'	1.06	1.53
1:AA:1300:G:C5'	13:AM:30:TYR:CD1	1.92	1.53
1:AA:1176:A:C3'	9:AI:107:ALA:HA	1.25	1.53
18:B3:1348:A:C5'	23:BD:241:ALA:HB2	1.07	1.53
18:B3:1761:U:C1'	35:BP:80:ARG:HH22	1.16	1.53
6:AE:157:THR:HG23	8:AH:127:PHE:CE1	1.41	1.53
18:B3:1381:A:C8	43:BW:25:LYS:HD3	1.41	1.53
18:B3:2052:U:P	33:BN:23:VAL:HG23	1.41	1.53
18:B3:1163:G:C6	30:BK:51:LYS:CE	1.83	1.53
1:AA:1240:U:C5'	7:AG:188:THR:HA	1.32	1.53
1:AA:1075:C:C5'	3:AB:103:PRO:HD2	1.31	1.53
20:BA:43:PRO:CG	20:BA:132:GLY:CA	1.75	1.53
18:B3:1676:G:H5''	39:BT:115:PRO:CG	1.37	1.53
1:AA:1348:U:C4'	9:AI:134:ARG:HG3	1.30	1.53
19:B4:51:A:C2	24:BE:58:LYS:CG	1.89	1.52
18:B3:473:A:H5'	45:BY:48:TRP:CZ2	1.43	1.52
18:B3:2337:G:C1'	29:BJ:127:TYR:HA	1.38	1.52
20:BA:43:PRO:HG2	20:BA:132:GLY:CA	1.05	1.52
1:AA:1348:U:H4'	9:AI:134:ARG:CG	1.34	1.52
1:AA:1329:A:C5'	13:AM:98:TYR:CD1	1.81	1.52
18:B3:764:C:H1'	23:BD:86:GLN:CB	1.32	1.52
18:B3:764:C:C1'	23:BD:86:GLN:HB2	1.08	1.52
18:B3:2552:C:C4'	18:B3:2553:A:N3	1.72	1.52
18:B3:72:C:H5''	44:BX:49:LYS:CE	1.05	1.52
18:B3:2408:A:C1'	46:BZ:19:HIS:NE2	1.67	1.52
2:AT:140:GLU:HB3	2:AT:481:MET:CG	1.04	1.52
1:AA:920:U:C4'	1:AA:1080:A:C2'	1.85	1.52
18:B3:2347:C:C5	29:BJ:66:VAL:HG11	1.41	1.52
18:B3:1745:G:C5'	37:BR:22:ILE:HD13	1.36	1.52
1:AA:144:G:C6	1:AA:199:G:C5'	1.90	1.52
18:B3:449:A:H5'	18:B3:1306:U:C1'	1.39	1.51
18:B3:1733:A:C8	22:BC:225:PHE:HE1	1.26	1.51
18:B3:1566:C:C4'	35:BP:56:VAL:HG11	1.35	1.51
18:B3:1352:A:H5'	23:BD:102:THR:CG2	1.35	1.51
37:BR:95:PHE:CB	38:BS:21:PHE:HD1	0.97	1.51
1:AA:33:A:C2	12:AL:47:SER:HB3	1.42	1.51
18:B3:1316:G:P	42:B0:102:ALA:HB3	1.51	1.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:82:LYS:CE	46:BZ:49:PHE:CD1	1.93	1.51
18:B3:2737:C:C5	35:BP:61:ARG:NE	1.72	1.51
1:AA:920:U:C5'	1:AA:1080:A:C4	1.86	1.51
18:B3:2552:C:H4'	18:B3:2553:A:C2	1.42	1.51
1:AA:1345:U:N3	7:AG:76:TYR:CD1	1.78	1.51
18:B3:2652:U:C2'	22:BC:257:ALA:HB3	1.40	1.51
18:B3:2345:A:C4'	29:BJ:48:LYS:HD3	1.36	1.51
1:AA:66:G:C4'	1:AA:173:U:C2	1.91	1.51
18:B3:2460:A:C1'	46:BZ:59:LYS:HB3	1.39	1.50
1:AA:877:C:H1'	8:AH:3:SER:CB	1.40	1.50
18:B3:949:U:C1'	36:BQ:100:LYS:HB3	1.29	1.50
18:B3:67:A:H3'	44:BX:55:LEU:CD2	1.06	1.50
1:AA:1309:G:C2'	13:AM:92:ILE:HG12	1.39	1.50
18:B3:448:G:N2	23:BD:47:GLN:CG	1.69	1.50
18:B3:2136:G:C2	18:B3:2238:A:C6	2.00	1.50
18:B3:894:A:C2	23:BD:98:MET:HB2	1.46	1.50
1:AA:1372:U:C5'	9:AI:74:VAL:HG21	1.36	1.50
18:B3:1689:A:C2	33:BN:128:THR:CG2	1.94	1.50
1:AA:320:C:H1'	1:AA:1435:G:C2'	1.39	1.50
18:B3:919:U:C2	41:BV:41:ARG:HA	1.44	1.50
1:AA:553:A:H2'	12:AL:45:GLY:CA	1.19	1.50
1:AA:634:C:H3'	16:AQ:92:TYR:CZ	1.00	1.50
18:B3:672:G:H5'	23:BD:214:ILE:CG1	1.37	1.50
18:B3:2819:C:H3'	22:BC:101:LEU:N	1.27	1.50
18:B3:1708:C:C6	35:BP:81:LYS:HG2	1.44	1.50
1:AA:1299:A:C5'	13:AM:57:ARG:HH12	1.16	1.49
18:B3:1206:C:C2'	18:B3:1207:A:C8	1.95	1.49
27:BH:43:VAL:HG13	32:BM:126:LEU:CA	1.05	1.49
18:B3:1694:G:H21	45:BY:5:PRO:CB	1.23	1.49
18:B3:841:A:H8	33:BN:131:ALA:CB	1.10	1.49
31:BL:82:LYS:HE3	46:BZ:49:PHE:CB	1.06	1.49
2:AT:140:GLU:CG	2:AT:481:MET:N	1.73	1.49
1:AA:920:U:H4'	1:AA:1080:A:C2'	1.38	1.49
13:AM:91:ASP:C	13:AM:109:LEU:CD1	1.76	1.49
18:B3:1830:C:H42	21:BB:180:LYS:CE	1.21	1.49
18:B3:925:C:H4'	41:BV:28:PRO:CG	1.42	1.49
18:B3:1943:C:C4'	21:BB:218:ILE:HD11	1.39	1.49
1:AA:1406:U:H1'	1:AA:1518:A:C5'	1.42	1.49
1:AA:1300:G:C4'	13:AM:30:TYR:CD1	1.94	1.49
18:B3:449:A:N6	18:B3:1349:G:H3'	1.17	1.49
18:B3:1287:A:C2	25:BF:106:ARG:NH1	1.78	1.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2853:U:H5''	22:BC:170:LEU:CD2	1.40	1.49
18:B3:1132:A:C3'	18:B3:2521:A:H4'	1.41	1.49
18:B3:1788:U:C3'	18:B3:2881:C:H2'	1.39	1.49
18:B3:1993:C:H1'	37:BR:72:LYS:CG	1.40	1.49
19:B4:97:U:C2	25:BF:220:LYS:CD	1.92	1.48
18:B3:100:C:C1'	40:BU:24:SER:HB2	1.40	1.48
19:B4:85:A:C4'	25:BF:131:PRO:HB3	1.42	1.48
22:BC:360:THR:N	38:BS:14:TYR:HB3	1.16	1.48
18:B3:100:C:H1'	40:BU:24:SER:CB	1.04	1.48
1:AA:1329:A:C5'	13:AM:98:TYR:CG	1.81	1.48
18:B3:2837:U:C6	22:BC:333:ARG:CD	1.79	1.48
18:B3:2381:C:C1'	46:BZ:10:TYR:CD1	1.78	1.48
18:B3:1694:G:N2	45:BY:5:PRO:CB	1.74	1.48
18:B3:1370:G:C8	33:BN:62:PHE:CE1	1.99	1.48
18:B3:2283:G:C5'	28:BI:114:GLY:HA2	1.04	1.48
10:AJ:78:THR:CG2	14:AN:39:ARG:NE	1.70	1.48
6:AE:102:VAL:CG2	6:AE:189:LEU:HD23	1.40	1.48
19:B4:34:A:N6	24:BE:95:TRP:CE3	1.76	1.48
18:B3:953:G:H3'	36:BQ:13:TYR:CZ	1.47	1.48
18:B3:2546:U:C3'	22:BC:235:LYS:HG3	1.23	1.48
18:B3:2468:A:C2	46:BZ:54:LYS:CB	1.94	1.47
18:B3:1815:A:O2'	18:B3:2746:A:C8	1.67	1.47
10:AJ:78:THR:CB	14:AN:39:ARG:HE	1.24	1.47
1:AA:25:C:H4'	12:AL:109:ARG:CZ	1.40	1.47
1:AA:1343:G:C5'	9:AI:138:GLN:HA	1.41	1.47
18:B3:844:A:H8	33:BN:130:ARG:NH2	1.04	1.47
1:AA:1176:A:H3'	9:AI:107:ALA:CA	1.40	1.47
19:B4:36:C:H5'	24:BE:181:PRO:C	1.32	1.47
18:B3:2661:U:H3	18:B3:2812:A:N6	1.06	1.47
18:B3:1815:A:N7	18:B3:2733:U:N3	1.61	1.47
1:AA:66:G:H4'	1:AA:173:U:C2	1.42	1.47
2:AT:140:GLU:CB	2:AT:481:MET:HG2	1.03	1.47
18:B3:657:G:O2'	23:BD:119:TYR:CE2	1.66	1.47
18:B3:2101:A:C8	23:BD:71:ALA:HA	1.49	1.47
18:B3:2283:G:H5''	28:BI:114:GLY:CA	1.02	1.47
18:B3:1761:U:H1'	35:BP:80:ARG:NH2	1.26	1.47
18:B3:2705:U:C5'	27:BH:122:LYS:HE3	1.04	1.47
1:AA:920:U:H5'	1:AA:1080:A:C4	0.94	1.47
18:B3:1352:A:C4'	23:BD:102:THR:CG2	1.83	1.47
18:B3:1352:A:C5'	23:BD:102:THR:HG21	1.33	1.47
22:BC:358:ILE:N	38:BS:15:PRO:HB2	1.17	1.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:G:C5	1:AA:199:G:H5''	1.45	1.47
1:AA:988:G:C2'	1:AA:1015:A:N7	1.77	1.47
18:B3:2050:G:C8	33:BN:82:TRP:CE3	1.93	1.47
30:BK:53:PHE:CD1	30:BK:86:LYS:NZ	1.78	1.47
18:B3:72:C:C5'	44:BX:49:LYS:CE	1.93	1.47
18:B3:402:U:C4'	31:BL:69:ASN:ND2	1.74	1.47
18:B3:1675:C:C6	39:BT:113:VAL:N	1.71	1.47
2:AT:465:LYS:NZ	2:AT:511:LEU:HG	1.21	1.47
1:AA:1300:G:H5'	13:AM:30:TYR:CD1	1.48	1.46
1:AA:1362:C:N3	13:AM:137:HIS:HE1	1.08	1.46
18:B3:538:C:C2	42:B0:21:HIS:ND1	1.74	1.46
18:B3:693:A:C4'	41:BV:59:TYR:CE1	1.92	1.46
1:AA:634:C:C3'	16:AQ:92:TYR:CZ	1.94	1.46
18:B3:616:U:H2'	42:B0:47:ARG:CG	0.98	1.46
19:B4:49:G:C8	24:BE:158:ARG:HD3	1.28	1.46
18:B3:2913:A:C2	22:BC:124:SER:OG	1.65	1.46
18:B3:1812:G:C2	18:B3:2732:U:H5''	1.48	1.46
18:B3:1815:A:C8	18:B3:2733:U:N3	1.81	1.46
1:AA:1075:C:H5''	3:AB:103:PRO:CD	1.44	1.46
18:B3:170:U:C5'	31:BL:82:LYS:HD2	0.99	1.46
19:B4:85:A:O2'	25:BF:228:PHE:CE1	1.68	1.46
18:B3:2135:A:C2	18:B3:2240:U:O4	1.65	1.46
10:AJ:71:PRO:CG	14:AN:36:ASN:OD1	1.63	1.46
18:B3:618:G:C8	42:B0:46:PHE:CD1	2.04	1.46
31:BL:82:LYS:CE	46:BZ:49:PHE:CB	1.94	1.46
18:B3:2093:G:C2'	22:BC:253:ALA:HB2	1.44	1.46
18:B3:1805:G:C5'	18:B3:2875:A:C4'	1.90	1.46
18:B3:902:G:N7	41:BV:21:ILE:HD11	1.23	1.46
1:AA:988:G:C1'	1:AA:1014:A:C3'	1.91	1.45
18:B3:2837:U:C5	22:BC:333:ARG:HD2	1.48	1.45
18:B3:2350:G:N2	29:BJ:116:ASP:HB2	1.22	1.45
1:AA:18:C:O2	1:AA:572:A:C2	1.66	1.45
1:AA:1221:G:N7	17:AS:79:HIS:HA	1.24	1.45
1:AA:1318:A:C8	17:AS:54:ALA:HB1	1.49	1.45
1:AA:1321:C:N3	17:AS:81:ARG:HB2	1.19	1.45
18:B3:449:A:N6	18:B3:1349:G:C3'	1.79	1.45
18:B3:635:A:C5'	23:BD:91:ASN:OD1	1.64	1.45
21:BB:179:LEU:HD22	47:B9:21:LEU:CD1	1.00	1.45
20:BA:43:PRO:HG2	20:BA:132:GLY:C	1.13	1.45
1:AA:143:A:OP1	1:AA:201:C:C5	1.69	1.45
1:AA:1321:C:H2'	17:AS:81:ARG:NH2	1.15	1.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:676:C:C2'	23:BD:231:SER:O	1.63	1.45
18:B3:1163:G:N7	30:BK:51:LYS:HD2	1.30	1.45
18:B3:402:U:H4'	31:BL:69:ASN:CG	1.24	1.45
1:AA:1302:U:O5'	13:AM:54:LEU:CD2	1.64	1.45
1:AA:1309:G:C3'	13:AM:92:ILE:HG12	1.12	1.45
18:B3:1689:A:N3	33:BN:128:THR:CG2	1.80	1.45
18:B3:2705:U:H4'	27:BH:122:LYS:NZ	1.14	1.45
18:B3:905:C:C5'	41:BV:11:ARG:NE	1.76	1.45
18:B3:2817:G:P	22:BC:96:ARG:HH21	1.40	1.45
1:AA:1300:G:C5'	13:AM:30:TYR:CE1	1.95	1.44
1:AA:1319:A:C8	17:AS:49:MET:HE3	1.50	1.44
18:B3:1694:G:N2	45:BY:5:PRO:CD	1.78	1.44
18:B3:1086:A:H62	25:BF:92:ASN:ND2	1.02	1.44
18:B3:2133:U:C4'	18:B3:2134:G:H5'	1.41	1.44
18:B3:2345:A:C5'	29:BJ:48:LYS:CD	1.92	1.44
1:AA:677:U:C5	11:AK:121:PRO:HB2	1.50	1.44
2:AT:749:LYS:HE3	18:B3:2508:C:C5	1.50	1.44
1:AA:1309:G:O6	13:AM:95:GLY:CA	1.65	1.44
1:AA:1319:A:C8	17:AS:49:MET:CE	2.00	1.44
1:AA:988:G:C4	1:AA:1014:A:H2'	1.20	1.44
18:B3:1875:A:C2'	21:BB:150:PRO:HB2	1.47	1.44
18:B3:26:U:C2'	18:B3:1319:G:C2'	1.84	1.44
18:B3:2837:U:O2	22:BC:334:ILE:CA	1.65	1.44
1:AA:131:C:H4'	1:AA:264:U:C4'	1.35	1.44
18:B3:2545:U:O2'	22:BC:238:PRO:CG	1.65	1.44
18:B3:1056:U:H4'	28:BI:8:CYS:CB	1.44	1.44
18:B3:251:C:C1'	31:BL:139:LYS:HE2	1.37	1.44
20:BA:55:LEU:HD12	20:BA:157:PHE:CA	1.45	1.44
2:AT:501:LEU:HD12	12:AL:99:ASN:CB	1.45	1.44
18:B3:1689:A:C4	33:BN:128:THR:CG2	2.01	1.44
1:AA:132:C:O2	1:AA:262:A:C2	1.70	1.44
1:AA:231:G:N2	1:AA:263:A:H2	1.13	1.44
37:BR:94:TYR:CD1	38:BS:21:PHE:CD2	1.99	1.44
18:B3:1787:C:H2'	18:B3:2882:G:C3'	1.40	1.44
18:B3:1676:G:C5'	39:BT:115:PRO:CD	1.96	1.44
27:BH:43:VAL:CG1	32:BM:126:LEU:CA	1.91	1.44
18:B3:905:C:H5'	41:BV:11:ARG:NE	1.22	1.44
18:B3:1086:A:N6	25:BF:92:ASN:HD21	1.06	1.43
18:B3:1673:U:C1'	39:BT:91:LYS:N	1.71	1.43
5:AD:91:LYS:C	6:AE:174:GLY:HA3	1.06	1.43
1:AA:70:G:N2	1:AA:101:A:H61	1.02	1.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1296:C:H5''	13:AM:52:VAL:C	1.32	1.43
18:B3:1694:G:N3	45:BY:5:PRO:HD2	1.14	1.43
18:B3:2061:C:H5'	42:B0:24:ARG:CD	1.20	1.43
18:B3:672:G:C5'	23:BD:214:ILE:HD12	1.45	1.43
18:B3:635:A:H5'	23:BD:91:ASN:CG	1.32	1.43
18:B3:1163:G:C6	30:BK:51:LYS:HE2	0.94	1.43
18:B3:1812:G:N3	18:B3:2732:U:H5''	1.32	1.43
1:AA:400:C:C4'	5:AD:77:ILE:HD13	1.46	1.43
18:B3:1875:A:H2'	21:BB:150:PRO:CG	1.45	1.43
18:B3:2704:C:N3	27:BH:121:LYS:HD2	1.21	1.43
1:AA:359:U:H5'	2:AT:391:LYS:CA	1.24	1.43
18:B3:2214:A:H2'	20:BA:106:LYS:CD	1.47	1.43
1:AA:1071:C:OP2	6:AE:90:ARG:CG	1.65	1.43
1:AA:1117:G:O2'	9:AI:120:SER:CB	1.64	1.43
13:AM:88:ARG:HH12	13:AM:115:ARG:NH1	0.98	1.43
18:B3:265:U:H5''	31:BL:55:LYS:NZ	1.17	1.43
18:B3:2350:G:OP1	29:BJ:139:ARG:CD	1.65	1.43
20:BA:108:ASN:CG	20:BA:162:VAL:CG2	1.87	1.43
2:AT:138:GLN:NE2	18:B3:2698:G:H5''	1.14	1.43
1:AA:559:A:N7	12:AL:36:THR:CG2	1.77	1.43
19:B4:69:U:O2'	24:BE:14:SER:CB	1.66	1.42
1:AA:292:G:H2'	1:AA:609:A:C6	1.51	1.42
1:AA:1329:A:H5'	13:AM:98:TYR:CE1	1.51	1.42
19:B4:51:A:C4	24:BE:58:LYS:CG	2.01	1.42
18:B3:894:A:H5'	23:BD:57:HIS:CD2	0.90	1.42
18:B3:635:A:H5'	23:BD:91:ASN:ND2	1.26	1.42
21:BB:179:LEU:CB	47:B9:20:SER:HB3	1.13	1.42
6:AE:215:VAL:O	8:AH:129:TYR:CE2	1.72	1.42
1:AA:66:G:H4'	1:AA:173:U:N1	1.30	1.42
2:AT:108:HIS:ND1	2:AT:540:ILE:HG13	1.25	1.42
1:AA:920:U:H5'	1:AA:1080:A:N9	1.32	1.42
1:AA:779:C:H5'	11:AK:132:ARG:CA	1.45	1.42
18:B3:903:U:C4	41:BV:15:SER:HA	1.52	1.42
1:AA:988:G:H1'	1:AA:1014:A:C3'	0.95	1.42
18:B3:2368:A:C2	24:BE:150:LEU:HD23	1.55	1.42
19:B4:68:G:N2	24:BE:11:ALA:CB	1.81	1.42
18:B3:1874:U:P	21:BB:127:ARG:HG3	1.58	1.42
22:BC:359:ASP:HB2	38:BS:16:GLY:C	1.40	1.42
18:B3:1002:G:C2'	28:BI:90:ARG:NH2	1.82	1.42
10:AJ:69:LYS:HB2	14:AN:39:ARG:CZ	0.94	1.42
27:BH:43:VAL:CG1	32:BM:126:LEU:CB	1.75	1.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:436:C:C2	1:AA:496:A:H2'	1.54	1.42
18:B3:1348:A:C2'	23:BD:39:THR:HA	1.43	1.42
18:B3:170:U:H5''	31:BL:82:LYS:CD	1.45	1.42
18:B3:693:A:C5'	41:BV:59:TYR:CE1	2.02	1.42
1:AA:20:U:H4'	1:AA:573:A:C6	1.55	1.42
18:B3:881:C:O2	45:BY:7:PHE:CE2	1.72	1.42
1:AA:1302:U:C3'	13:AM:54:LEU:CD2	1.98	1.42
19:B4:48:C:H3'	24:BE:158:ARG:CG	1.50	1.42
18:B3:953:G:OP2	36:BQ:13:TYR:CB	1.65	1.42
18:B3:2165:G:N3	20:BA:207:LYS:HE2	1.16	1.42
18:B3:1993:C:H5'	37:BR:71:LYS:CA	0.99	1.42
18:B3:2295:G:C5'	36:BQ:5:HIS:O	1.66	1.41
18:B3:2413:A:H1'	24:BE:175:HIS:N	1.30	1.41
37:BR:95:PHE:HB3	38:BS:22:VAL:CG1	1.38	1.41
18:B3:1733:A:C8	22:BC:225:PHE:CE1	2.06	1.41
18:B3:2671:U:H5''	22:BC:178:ALA:CB	1.49	1.41
18:B3:2808:U:O2'	22:BC:15:PHE:CA	1.66	1.41
18:B3:921:G:C3'	41:BV:41:ARG:HG2	1.03	1.41
3:AB:31:HIS:NE2	8:AH:21:LYS:HE3	1.32	1.41
1:AA:554:C:C1'	12:AL:45:GLY:HA3	1.46	1.41
18:B3:902:G:N7	41:BV:21:ILE:CD1	1.83	1.41
1:AA:1126:U:C1'	1:AA:1280:A:H62	1.13	1.41
18:B3:1358:A:H2'	23:BD:92:MET:CG	1.51	1.41
1:AA:919:A:C4'	1:AA:1079:G:N2	1.79	1.41
18:B3:698:A:OP1	41:BV:132:LEU:CG	1.68	1.41
1:AA:1309:G:C8	13:AM:92:ILE:CA	1.94	1.41
18:B3:1370:G:C8	33:BN:62:PHE:HE1	1.30	1.41
18:B3:1855:G:O2'	21:BB:155:LYS:CD	1.68	1.41
18:B3:2335:C:C2	29:BJ:116:ASP:HB3	0.91	1.41
18:B3:1447:U:C6	39:BT:70:THR:OG1	1.71	1.41
1:AA:523:A:N6	12:AL:113:ALA:HB1	1.23	1.41
2:AT:738:GLN:HA	18:B3:1199:A:N6	1.11	1.41
1:AA:1148:U:H5'	9:AI:9:PHE:CE1	1.54	1.41
18:B3:448:G:N2	23:BD:47:GLN:HG2	1.12	1.41
19:B4:87:U:C6	25:BF:217:ARG:NH2	1.88	1.41
18:B3:2468:A:N1	46:BZ:54:LYS:CB	1.80	1.41
6:AE:157:THR:HG23	8:AH:127:PHE:CD1	1.54	1.41
1:AA:1419:G:N3	18:B3:1990:C:H4'	1.10	1.41
18:B3:1875:A:C5'	21:BB:127:ARG:NH2	1.84	1.41
22:BC:70:GLU:HA	37:BR:88:ARG:CG	1.49	1.41
10:AJ:76:SER:OG	14:AN:27:THR:CG2	1.65	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:400:C:H4'	5:AD:77:ILE:CD1	1.50	1.41
1:AA:12:U:C4'	1:AA:526:C:H5'	1.49	1.41
1:AA:554:C:O4'	12:AL:45:GLY:CA	1.64	1.41
1:AA:1299:A:H5'	13:AM:57:ARG:NH1	1.29	1.40
1:AA:1329:A:N6	13:AM:95:GLY:N	1.68	1.40
1:AA:1219:U:C3'	17:AS:58:LYS:CG	1.94	1.40
18:B3:843:A:OP2	33:BN:131:ALA:CB	1.68	1.40
18:B3:541:C:C5	42:B0:15:LYS:CG	2.01	1.40
19:B4:68:G:N2	24:BE:11:ALA:HB1	1.25	1.40
18:B3:2413:A:N3	24:BE:174:PRO:HB2	1.10	1.40
18:B3:500:G:H21	33:BN:96:ASN:ND2	1.11	1.40
18:B3:2347:C:N1	29:BJ:66:VAL:CG1	1.72	1.40
20:BA:55:LEU:CD1	20:BA:157:PHE:HA	1.51	1.40
20:BA:108:ASN:ND2	20:BA:162:VAL:CG2	1.84	1.40
18:B3:1674:C:OP2	39:BT:111:THR:CA	1.67	1.40
2:AT:140:GLU:HG2	2:AT:481:MET:CA	1.51	1.40
18:B3:2560:C:C5'	27:BH:168:ARG:HD2	1.49	1.40
18:B3:903:U:N3	41:BV:15:SER:HA	1.34	1.40
1:AA:1300:G:C3'	13:AM:30:TYR:CD1	2.03	1.40
18:B3:1139:U:C5'	27:BH:62:ARG:HG3	1.51	1.40
18:B3:1131:G:C6	18:B3:2523:U:H5'	1.55	1.40
18:B3:20:G:O2'	33:BN:5:ALA:CA	1.68	1.40
1:AA:1332:A:OP2	13:AM:40:ARG:CD	1.69	1.40
18:B3:706:G:C2	34:BO:72:LYS:NZ	1.87	1.40
18:B3:1285:U:C5'	25:BF:155:ILE:HD13	1.47	1.40
18:B3:2819:C:C2	22:BC:100:SER:HB3	1.52	1.40
18:B3:2720:C:H5''	38:BS:33:ASN:ND2	1.35	1.40
18:B3:2093:G:N2	22:BC:257:ALA:HA	1.36	1.40
1:AA:6:G:C1'	1:AA:298:A:O2'	1.67	1.40
1:AA:1406:U:C1'	1:AA:1518:A:H5'	1.50	1.40
18:B3:1694:G:H21	45:BY:5:PRO:CD	1.34	1.40
18:B3:670:G:N2	23:BD:231:SER:HB3	1.35	1.40
18:B3:1350:U:C6	23:BD:43:LYS:HD2	1.53	1.40
18:B3:2136:G:C2	18:B3:2238:A:N1	1.87	1.40
1:AA:988:G:C1'	1:AA:1014:A:H3'	1.49	1.40
1:AA:1300:G:O3'	13:AM:30:TYR:CD1	1.75	1.40
1:AA:1150:U:C4'	10:AJ:59:PRO:HG2	1.18	1.40
18:B3:516:A:H1'	18:B3:1340:G:C5'	1.45	1.40
22:BC:260:MET:CG	32:BM:66:THR:HG21	1.49	1.40
18:B3:2763:G:C3'	37:BR:14:SER:CB	1.97	1.40
18:B3:433:C:H5'	31:BL:149:TRP:CZ3	1.55	1.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:405:U:H3	5:AD:27:GLU:N	1.08	1.40
18:B3:2081:A:O2'	32:BM:69:PRO:CG	1.64	1.40
1:AA:231:G:N2	1:AA:263:A:C2	1.86	1.39
1:AA:560:U:H1'	1:AA:563:A:C4'	1.52	1.39
2:AT:140:GLU:CA	2:AT:481:MET:HG2	1.31	1.39
1:AA:988:G:N3	1:AA:1014:A:H2'	1.12	1.39
18:B3:27:U:O2	18:B3:1318:A:C6	1.75	1.39
18:B3:949:U:O4'	36:BQ:100:LYS:CB	1.68	1.39
18:B3:2093:G:H22	22:BC:257:ALA:CA	1.34	1.39
18:B3:2652:U:O2	22:BC:257:ALA:CB	1.70	1.39
18:B3:265:U:C5'	31:BL:55:LYS:NZ	1.83	1.39
10:AJ:71:PRO:CD	14:AN:36:ASN:OD1	1.71	1.39
10:AJ:78:THR:HG23	14:AN:39:ARG:CD	1.51	1.39
18:B3:2558:G:N2	18:B3:2799:A:N3	1.64	1.39
1:AA:143:A:C8	1:AA:200:G:H1'	1.55	1.39
1:AA:1343:G:H5'	9:AI:138:GLN:CA	1.53	1.39
2:AT:749:LYS:CE	18:B3:2508:C:H5	1.36	1.39
1:AA:359:U:C5'	2:AT:391:LYS:CA	2.00	1.39
18:B3:2081:A:O2'	32:BM:69:PRO:CB	1.69	1.39
1:AA:1309:G:H3'	13:AM:123:ARG:NH2	1.32	1.39
7:AG:111:ARG:NH2	9:AI:41:GLU:HB2	1.17	1.39
18:B3:676:C:O3'	23:BD:233:ASN:CA	1.70	1.39
2:AT:501:LEU:CD1	12:AL:99:ASN:HB2	1.50	1.39
13:AM:129:TRP:CH2	17:AS:121:ILE:HD13	1.56	1.39
18:B3:457:U:OP1	18:B3:1352:A:C2	1.73	1.39
19:B4:86:G:C4	25:BF:220:LYS:HG3	1.54	1.39
1:AA:131:C:C6	16:AQ:128:ARG:HG3	1.50	1.39
27:BH:63:LYS:HD2	32:BM:129:LYS:CB	0.96	1.39
18:B3:541:C:C6	42:B0:15:LYS:CG	2.03	1.39
19:B4:36:C:C5'	24:BE:181:PRO:C	1.88	1.39
18:B3:1010:C:C4'	24:BE:15:ARG:HD3	1.35	1.39
1:AA:318:G:N2	1:AA:1434:A:C2	1.90	1.39
22:BC:360:THR:H	38:BS:14:TYR:CB	1.34	1.39
1:AA:319:G:N3	1:AA:1434:A:C2	1.88	1.38
19:B4:85:A:H5'	25:BF:131:PRO:CB	1.49	1.38
18:B3:1733:A:N9	22:BC:225:PHE:HE1	1.15	1.38
18:B3:2763:G:C3'	37:BR:14:SER:HB2	1.49	1.38
18:B3:2350:G:OP1	29:BJ:139:ARG:CG	1.68	1.38
1:AA:12:U:C4'	1:AA:526:C:C5'	1.98	1.38
1:AA:1301:U:H5'	13:AM:30:TYR:CA	1.53	1.38
21:BB:177:PRO:CD	47:B9:25:VAL:HG23	1.52	1.38

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:948:G:N3	36:BQ:100:LYS:CD	1.72	1.38
18:B3:68:U:C5'	44:BX:55:LEU:HB2	1.51	1.38
18:B3:68:U:C2'	44:BX:55:LEU:HB3	1.27	1.38
37:BR:95:PHE:CZ	38:BS:23:ARG:HG2	1.59	1.38
20:BA:108:ASN:CG	20:BA:162:VAL:HG23	1.02	1.38
1:AA:364:A:N7	12:AL:78:LYS:HD3	1.38	1.38
18:B3:2705:U:C5'	27:BH:122:LYS:CE	1.74	1.38
1:AA:1086:U:C5'	1:AA:1389:C:C5'	2.00	1.38
1:AA:947:G:C5'	13:AM:143:ARG:NH2	1.85	1.38
1:AA:1219:U:C3'	17:AS:58:LYS:HG2	1.25	1.38
18:B3:448:G:C2'	23:BD:195:ASN:HD21	1.30	1.38
21:BB:47:ILE:CG1	47:B9:53:ILE:HG13	1.53	1.38
18:B3:2819:C:C3'	22:BC:101:LEU:N	1.84	1.38
1:AA:58:C:O2'	1:AA:388:G:C6	1.76	1.38
1:AA:1406:U:C6	1:AA:1518:A:H4'	1.57	1.38
18:B3:841:A:C8	33:BN:131:ALA:HB1	1.51	1.38
18:B3:1694:G:C2	45:BY:5:PRO:CG	1.84	1.38
19:B4:6:C:C2	24:BE:72:ASP:OD2	1.73	1.38
18:B3:1830:C:N4	21:BB:180:LYS:HE3	1.37	1.38
18:B3:1872:C:C4	21:BB:22:ARG:HG3	1.47	1.38
18:B3:67:A:N3	39:BT:60:LYS:NZ	1.68	1.38
18:B3:1003:U:OP1	28:BI:90:ARG:CD	1.71	1.38
18:B3:1794:G:O2'	35:BP:96:ARG:CD	1.68	1.38
18:B3:1676:G:C4'	39:BT:115:PRO:HD3	1.52	1.38
1:AA:619:U:C2'	5:AD:129:ILE:HD13	1.50	1.38
1:AA:1406:U:C1'	1:AA:1518:A:C5'	1.99	1.38
18:B3:81:G:H5'	40:BU:74:TYR:N	1.36	1.38
2:AT:501:LEU:CD1	12:AL:99:ASN:HD22	1.34	1.38
1:AA:668:G:H1'	15:AO:104:ASN:ND2	1.08	1.38
1:AA:1484:C:OP1	18:B3:2001:G:N2	1.56	1.38
1:AA:321:A:C5'	1:AA:1437:C:H5'	1.44	1.38
18:B3:2166:G:N7	20:BA:61:PRO:HD3	1.34	1.38
18:B3:1745:G:C5'	37:BR:22:ILE:CD1	1.97	1.38
18:B3:676:C:C1'	23:BD:231:SER:O	1.70	1.37
18:B3:120:A:C2	45:BY:16:THR:HG21	1.57	1.38
18:B3:1875:A:C3'	21:BB:150:PRO:HB2	1.52	1.38
18:B3:2654:C:H1'	22:BC:259:VAL:CG1	1.05	1.38
1:AA:6:G:C4'	1:AA:298:A:O3'	1.71	1.37
1:AA:20:U:H4'	1:AA:573:A:N1	1.06	1.37
18:B3:518:G:C5'	18:B3:1338:U:O2'	1.71	1.37
1:AA:401:C:H5''	5:AD:78:ARG:CG	1.47	1.37

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:63:LYS:CD	32:BM:129:LYS:HB3	1.25	1.37
1:AA:143:A:H8	1:AA:200:G:C1'	1.36	1.37
18:B3:81:G:C5'	40:BU:74:TYR:N	1.88	1.37
19:B4:51:A:N3	24:BE:58:LYS:HB3	1.08	1.37
1:AA:335:C:H1'	1:AA:1434:A:C8	1.53	1.37
30:BK:53:PHE:HD1	30:BK:86:LYS:NZ	1.12	1.37
18:B3:72:C:H5''	44:BX:49:LYS:NZ	1.31	1.37
22:BC:359:ASP:OD1	38:BS:14:TYR:CB	1.71	1.37
18:B3:2736:U:C3'	35:BP:61:ARG:HB2	1.53	1.37
1:AA:1071:C:P	6:AE:90:ARG:CB	2.11	1.37
18:B3:1381:A:C8	43:BW:25:LYS:CD	2.07	1.37
18:B3:100:C:C1'	40:BU:24:SER:CB	1.93	1.37
18:B3:2415:A:C2	24:BE:35:ARG:NE	1.93	1.37
18:B3:2087:C:C5'	33:BN:78:THR:HG21	1.53	1.37
18:B3:1181:A:N3	30:BK:105:GLN:HB3	1.40	1.37
18:B3:1287:A:N1	25:BF:106:ARG:NH1	1.69	1.37
1:AA:129:U:O2'	16:AQ:128:ARG:HA	1.23	1.37
18:B3:2826:G:C2'	22:BC:124:SER:N	1.88	1.37
18:B3:919:U:O2	41:BV:41:ARG:CA	1.71	1.37
18:B3:1674:C:OP1	39:BT:121:ALA:CB	1.69	1.37
1:AA:1344:C:P	9:AI:136:ARG:HB3	1.63	1.37
1:AA:405:U:O2	5:AD:26:ALA:N	1.57	1.37
1:AA:988:G:C4	1:AA:1014:A:C2'	2.00	1.37
18:B3:882:A:C4'	45:BY:2:LYS:HA	1.52	1.37
18:B3:672:G:C8	23:BD:214:ILE:CG2	2.07	1.37
1:AA:190(E):U:P	16:AQ:130:ILE:CD1	2.12	1.37
1:AA:537:G:C5'	12:AL:143:PRO:HG3	1.51	1.37
18:B3:1134:G:C5'	18:B3:1229:C:O4'	1.70	1.37
18:B3:1055:G:C2	28:BI:108:ALA:HB3	1.58	1.37
26:BG:157:ASP:OD2	31:BL:40:ARG:HD3	1.25	1.37
18:B3:2335:C:N1	29:BJ:116:ASP:CB	1.81	1.37
1:AA:1321:C:C4	17:AS:81:ARG:HB2	1.48	1.36
1:AA:1329:A:N1	13:AM:94:ASP:C	1.75	1.36
18:B3:26:U:H2'	18:B3:1319:G:C2'	0.92	1.36
18:B3:472:A:O3'	45:BY:48:TRP:CH2	1.76	1.36
18:B3:1733:A:C1'	22:BC:225:PHE:CD1	2.08	1.36
10:AJ:69:LYS:HB2	14:AN:39:ARG:NH1	1.09	1.36
19:B4:119:C:C2	24:BE:71:GLY:O	1.77	1.36
18:B3:1876:C:H2'	21:BB:131:ASN:ND2	1.40	1.36
18:B3:1806:G:C4'	18:B3:2874:G:H1'	1.55	1.36
20:BA:55:LEU:CD2	20:BA:167:VAL:HG22	1.54	1.36

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:668:G:C1'	15:AO:104:ASN:ND2	1.88	1.36
18:B3:540:A:OP1	42:B0:18:LYS:CG	1.70	1.36
18:B3:1286:A:P	25:BF:155:ILE:HG23	1.65	1.36
18:B3:2468:A:N1	46:BZ:54:LYS:HB2	1.33	1.36
18:B3:72:C:C5'	44:BX:49:LYS:HE2	1.51	1.36
18:B3:2274:A:O2'	31:BL:80:TYR:N	1.57	1.36
19:B4:98:C:O2'	25:BF:222:PHE:CE1	1.72	1.36
1:AA:66:G:C2	1:AA:69:G:C5	2.13	1.36
1:AA:293:G:H5'	1:AA:610:G:C4	1.59	1.36
18:B3:710:G:H5'	34:BO:44:PHE:CE2	1.59	1.36
1:AA:254:G:O4'	16:AQ:79:MET:CE	1.73	1.36
20:BA:153:SER:N	20:BA:158:GLN:OE1	1.59	1.36
18:B3:449:A:C5'	18:B3:1306:U:C6	2.08	1.35
19:B4:87:U:O4'	25:BF:217:ARG:NH2	1.57	1.35
18:B3:2829:G:N3	22:BC:125:LYS:NZ	1.71	1.35
1:AA:1219:U:H3'	17:AS:58:LYS:CG	1.54	1.35
13:AM:88:ARG:NH1	13:AM:115:ARG:NH1	1.72	1.35
1:AA:1177:G:O3'	9:AI:105:LYS:HD3	1.23	1.35
19:B4:11:A:C4	24:BE:14:SER:HA	1.50	1.35
18:B3:1164:U:C6	30:BK:51:LYS:HG2	1.53	1.35
18:B3:2614:C:H1'	22:BC:240:LYS:CD	1.45	1.35
37:BR:92:PHE:CE1	38:BS:20:LEU:HD21	1.60	1.35
18:B3:2337:G:H1'	29:BJ:127:TYR:CA	1.55	1.35
10:AJ:74:GLU:CG	14:AN:37:ILE:HD13	1.35	1.35
1:AA:400:C:C4'	5:AD:77:ILE:CD1	2.04	1.35
1:AA:400:C:C3'	5:AD:77:ILE:HD13	1.56	1.35
1:AA:33:A:C2	12:AL:47:SER:CB	2.07	1.35
18:B3:2408:A:H1'	46:BZ:19:HIS:CD2	1.58	1.35
1:AA:1307:U:H6	13:AM:144:ARG:NH2	1.16	1.35
1:AA:1222:G:OP2	17:AS:81:ARG:NH1	1.59	1.35
18:B3:35:U:O2'	23:BD:48:ALA:CB	1.73	1.35
1:AA:538:G:P	12:AL:143:PRO:HD2	1.67	1.35
18:B3:1206:C:C2'	18:B3:1207:A:H8	1.27	1.35
18:B3:1002:G:O2'	28:BI:90:ARG:CZ	1.73	1.35
22:BC:358:ILE:N	38:BS:15:PRO:CB	1.90	1.35
22:BC:69:ARG:CD	37:BR:89:ASP:HB2	1.56	1.35
18:B3:1674:C:P	39:BT:121:ALA:HB2	1.66	1.35
2:AT:140:GLU:HB3	2:AT:481:MET:SD	1.65	1.35
18:B3:1225:C:H4'	18:B3:1248:A:C2	1.61	1.35
18:B3:1343:C:C2'	23:BD:188:ALA:HA	1.54	1.35
18:B3:1163:G:C5	30:BK:51:LYS:HE2	1.62	1.35

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:693:A:H5''	41:BV:59:TYR:CD1	1.60	1.35
22:BC:359:ASP:CB	38:BS:17:ARG:N	1.80	1.35
18:B3:1787:C:N3	18:B3:2883:A:O4'	1.56	1.35
18:B3:170:U:H6	46:BZ:49:PHE:CZ	1.44	1.35
1:AA:254:G:C4'	16:AQ:79:MET:CE	2.05	1.35
22:BC:365:GLY:CA	38:BS:35:LYS:HG2	1.55	1.35
18:B3:2165:G:O2'	20:BA:33:GLU:CB	1.72	1.35
1:AA:678:U:H5'	11:AK:127:LYS:CA	1.55	1.35
1:AA:947:G:H5''	13:AM:143:ARG:NH2	1.05	1.35
1:AA:925:G:H5'	1:AA:1399:C:OP2	1.22	1.35
1:AA:1309:G:C1'	13:AM:92:ILE:HG12	1.44	1.34
19:B4:49:G:C8	24:BE:158:ARG:CD	2.03	1.34
18:B3:745:G:O6	34:BO:91:ALA:CB	1.75	1.34
18:B3:1055:G:N3	28:BI:108:ALA:HB3	1.39	1.34
27:BH:62:ARG:HB3	32:BM:129:LYS:CE	1.43	1.34
27:BH:43:VAL:CB	32:BM:126:LEU:HB2	1.34	1.34
1:AA:545:C:H4'	5:AD:66:ASP:OD2	1.18	1.34
18:B3:1689:A:C4	33:BN:128:THR:HG21	1.61	1.34
18:B3:693:A:C5'	41:BV:59:TYR:CD1	2.10	1.34
1:AA:190(E):U:OP1	16:AQ:130:ILE:HD11	1.27	1.34
18:B3:2652:U:C2'	22:BC:257:ALA:CB	2.04	1.34
10:AJ:71:PRO:HD2	14:AN:36:ASN:CG	1.47	1.34
24:BE:16:PHE:CA	36:BQ:19:PHE:CE2	2.09	1.34
18:B3:1869:A:H2'	21:BB:192:ARG:NH2	1.38	1.34
18:B3:2837:U:C6	22:BC:333:ARG:HD2	1.29	1.34
18:B3:967:U:C1'	28:BI:34:TYR:HE2	1.40	1.34
1:AA:7:G:C5	6:AE:198:GLN:OE1	1.78	1.34
2:AT:137:VAL:O	2:AT:481:MET:CG	1.75	1.34
18:B3:2408:A:H1'	46:BZ:19:HIS:CE1	1.62	1.34
1:AA:634:C:C3'	16:AQ:92:TYR:OH	1.75	1.34
1:AA:1495:U:C2	1:AA:1517:G:N2	1.94	1.34
2:AT:749:LYS:CE	18:B3:2508:C:C5	2.10	1.34
18:B3:897:A:OP2	41:BV:26:LYS:HG3	1.17	1.34
1:AA:990:C:C5	1:AA:1016:A:N3	1.93	1.34
18:B3:2415:A:H1'	24:BE:39:GLN:CD	1.46	1.34
18:B3:764:C:C1'	23:BD:86:GLN:CB	1.92	1.34
21:BB:179:LEU:HB3	47:B9:20:SER:CB	1.53	1.34
18:B3:1855:G:C6	21:BB:149:LEU:HB3	1.61	1.34
18:B3:1098:A:OP2	25:BF:216:PRO:CB	1.76	1.34
18:B3:401:C:C5'	31:BL:94:GLN:O	1.74	1.34
18:B3:399:C:OP1	31:BL:180:ASN:CB	1.74	1.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:537:G:C3'	42:B0:41:VAL:HG11	1.54	1.34
18:B3:1352:A:C4'	23:BD:102:THR:HG21	0.87	1.34
18:B3:710:G:H5'	34:BO:44:PHE:CD2	1.62	1.34
18:B3:449:A:H5'	18:B3:1306:U:C6	1.63	1.34
18:B3:52:A:C5'	45:BY:20:ARG:HH11	1.28	1.34
18:B3:1167:G:OP1	30:BK:45:ASP:HA	1.23	1.34
18:B3:945:U:C5'	25:BF:128:LEU:HD11	1.58	1.34
1:AA:190(E):U:O5'	16:AQ:109:HIS:CB	1.73	1.34
18:B3:2819:C:H3'	22:BC:100:SER:C	1.46	1.34
18:B3:2347:C:N1	29:BJ:66:VAL:HG13	1.29	1.34
1:AA:12:U:C4'	1:AA:526:C:C4'	2.06	1.34
18:B3:2705:U:C4'	27:BH:122:LYS:NZ	1.90	1.34
1:AA:677:U:H5	11:AK:121:PRO:CB	1.39	1.34
13:AM:88:ARG:HH12	13:AM:115:ARG:CZ	1.39	1.33
19:B4:50:G:C5'	24:BE:94:ASN:HB2	1.57	1.33
18:B3:449:A:H4'	18:B3:1306:U:C5	1.63	1.33
18:B3:448:G:N3	23:BD:47:GLN:HG2	1.43	1.33
37:BR:94:TYR:CD1	38:BS:21:PHE:CE2	1.87	1.33
19:B4:44:A:O2'	29:BJ:140:ARG:CZ	1.76	1.33
10:AJ:71:PRO:CD	14:AN:42:PHE:HB2	1.54	1.33
2:AT:141:THR:CG2	2:AT:483:PHE:HB3	1.55	1.33
2:AT:137:VAL:O	2:AT:481:MET:HG3	1.19	1.33
1:AA:1406:U:N1	1:AA:1518:A:H4'	1.43	1.33
1:AA:121:C:N1	1:AA:235:C:N4	1.73	1.33
1:AA:1362:C:O2	13:AM:137:HIS:CE1	1.81	1.33
18:B3:1370:G:C6	33:BN:25:PHE:O	1.82	1.33
18:B3:677:C:C3'	23:BD:256:LYS:HG2	1.58	1.33
18:B3:924:G:C6	41:BV:41:ARG:HB2	1.64	1.33
18:B3:538:C:C5	42:B0:21:HIS:HE1	1.44	1.33
19:B4:34:A:N6	24:BE:95:TRP:CZ3	1.96	1.33
18:B3:2468:A:N7	46:BZ:55:PRO:HG3	1.40	1.33
18:B3:402:U:H4'	31:BL:69:ASN:ND2	1.36	1.33
18:B3:2336:G:H4'	29:BJ:101:PHE:CE1	1.61	1.33
20:BA:55:LEU:HD23	20:BA:167:VAL:CA	1.54	1.33
10:AJ:78:THR:HG23	14:AN:39:ARG:NE	1.30	1.33
1:AA:364:A:P	12:AL:50:LYS:HG2	1.68	1.33
1:AA:121:C:C6	1:AA:235:C:C4	2.15	1.33
18:B3:2663:U:H1'	18:B3:2816:A:N7	1.40	1.33
1:AA:1329:A:C6	13:AM:94:ASP:C	1.99	1.33
1:AA:1148:U:H5''	9:AI:9:PHE:CZ	1.63	1.33
18:B3:170:U:OP1	31:BL:82:LYS:CA	1.76	1.33

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1164:U:C6	30:BK:51:LYS:CB	2.12	1.33
19:B4:85:A:C1'	25:BF:228:PHE:CZ	2.11	1.33
18:B3:1095:U:O2'	25:BF:209:PRO:HB3	1.21	1.33
18:B3:2520:G:H5''	28:BI:160:PRO:CA	1.56	1.33
18:B3:2671:U:H5''	22:BC:178:ALA:CA	1.35	1.33
1:AA:59:A:H5''	1:AA:388:G:C8	1.63	1.33
18:B3:2820:A:O5'	22:BC:102:THR:N	1.60	1.33
18:B3:2808:U:O2'	22:BC:15:PHE:CB	1.74	1.33
18:B3:2898:G:H5''	22:BC:312:HIS:O	1.17	1.33
18:B3:2711:U:C1'	37:BR:41:GLY:O	1.76	1.33
18:B3:1993:C:C5'	37:BR:71:LYS:HA	1.29	1.33
18:B3:2663:U:C1'	18:B3:2816:A:C5	1.96	1.33
1:AA:989:C:C5'	1:AA:1013:G:H1'	1.55	1.32
1:AA:1148:U:C5'	9:AI:9:PHE:CZ	2.10	1.32
18:B3:1371:U:H5'	33:BN:66:ILE:CD1	1.58	1.32
18:B3:449:A:H5'	18:B3:1306:U:N1	1.00	1.32
18:B3:1855:G:C6	21:BB:150:PRO:HD2	1.61	1.32
18:B3:1287:A:N1	25:BF:106:ARG:CZ	1.92	1.32
1:AA:633:G:O3'	16:AQ:94:PRO:HA	1.27	1.32
1:AA:119:A:C2	1:AA:238:G:H2'	1.63	1.32
24:BE:16:PHE:CA	36:BQ:19:PHE:CZ	2.10	1.32
18:B3:500:G:N2	33:BN:96:ASN:ND2	1.78	1.32
18:B3:471:G:H4'	45:BY:15:HIS:CE1	1.62	1.32
18:B3:2837:U:C2	22:BC:334:ILE:HA	1.62	1.32
18:B3:1713:G:O2'	18:B3:2745:C:H1'	1.24	1.32
18:B3:164:G:O3'	41:BV:31:ARG:CG	1.76	1.32
18:B3:1227:C:O4'	32:BM:132:ARG:NH2	1.62	1.32
1:AA:1343:G:C5'	9:AI:137:PHE:O	1.74	1.32
1:AA:1329:A:H2	13:AM:92:ILE:O	1.12	1.32
18:B3:2368:A:H2	24:BE:150:LEU:CD2	1.40	1.32
19:B4:69:U:C4'	24:BE:14:SER:HB2	1.56	1.32
18:B3:1348:A:H5'	23:BD:241:ALA:CB	0.84	1.32
18:B3:1874:U:O5'	21:BB:127:ARG:CG	1.77	1.32
18:B3:945:U:O2'	25:BF:124:GLU:CB	1.71	1.32
18:B3:953:G:C5'	36:BQ:13:TYR:CD2	2.13	1.32
18:B3:67:A:C3'	44:BX:55:LEU:HD22	1.47	1.32
18:B3:2135:A:C2	18:B3:2239:C:N4	1.98	1.32
1:AA:124:G:P	1:AA:289:G:N2	2.03	1.32
1:AA:1309:G:C5	13:AM:92:ILE:CG2	2.09	1.32
18:B3:844:A:OP2	33:BN:130:ARG:HB2	1.29	1.32
18:B3:1694:G:C2	45:BY:5:PRO:CD	2.08	1.32

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1177:G:C8	9:AI:107:ALA:N	1.83	1.32
18:B3:2413:A:C1'	24:BE:175:HIS:N	1.92	1.32
18:B3:1010:C:C4'	24:BE:15:ARG:CD	2.07	1.32
18:B3:894:A:C2	23:BD:98:MET:CB	2.11	1.32
18:B3:2093:G:O2'	22:BC:253:ALA:CA	1.78	1.32
18:B3:2654:C:C1'	22:BC:259:VAL:CG1	1.85	1.32
18:B3:2347:C:O4'	29:BJ:66:VAL:HG12	1.29	1.32
1:AA:402:G:H1'	1:AA:620:C:C4	1.54	1.32
1:AA:1496:C:H5'	18:B3:1962:G:P	1.68	1.32
18:B3:81:G:O3'	40:BU:75:ARG:CG	1.78	1.32
1:AA:1304:G:O6	13:AM:40:ARG:HB3	1.27	1.32
18:B3:1371:U:C5'	33:BN:66:ILE:CD1	2.07	1.32
18:B3:677:C:C5'	23:BD:256:LYS:HE2	1.59	1.32
1:AA:130:A:C8	16:AQ:135:ARG:CA	2.13	1.32
18:B3:2671:U:C5'	22:BC:178:ALA:CA	2.02	1.32
26:BG:161:LEU:CD2	31:BL:3:TYR:CZ	2.11	1.32
19:B4:44:A:O2'	29:BJ:140:ARG:NH1	1.61	1.32
18:B3:2346:C:C1'	29:BJ:66:VAL:H	1.30	1.32
1:AA:1343:G:H4'	9:AI:137:PHE:C	1.46	1.32
18:B3:1312:G:H1	23:BD:186:LEU:CD1	1.37	1.31
18:B3:1787:C:C4	18:B3:2883:A:O4'	1.81	1.31
18:B3:2797:C:P	27:BH:127:PRO:HG2	1.68	1.31
18:B3:1267:C:O3'	42:B0:61:LYS:HG2	1.26	1.31
18:B3:778:C:H5''	45:BY:9:LYS:NZ	1.44	1.31
18:B3:1943:C:H4'	21:BB:218:ILE:CD1	1.57	1.31
18:B3:2459:G:OP1	46:BZ:86:ARG:CD	1.75	1.31
18:B3:2853:U:H5''	22:BC:170:LEU:CG	1.60	1.31
18:B3:79:G:C5'	40:BU:28:ARG:HB3	1.59	1.31
18:B3:2663:U:H1'	18:B3:2816:A:C5	1.07	1.31
18:B3:1837:G:O6	45:BY:2:LYS:HB2	1.18	1.31
18:B3:449:A:C5'	18:B3:1306:U:N1	1.91	1.31
1:AA:537:G:O3'	12:AL:143:PRO:HD2	1.22	1.31
18:B3:1794:G:C4'	35:BP:96:ARG:CG	2.06	1.31
1:AA:619:U:O2'	5:AD:129:ILE:CD1	1.75	1.31
5:AD:91:LYS:C	6:AE:174:GLY:CA	1.99	1.31
1:AA:65:U:C1'	1:AA:382:A:N1	1.91	1.31
18:B3:81:G:C4'	40:BU:74:TYR:O	1.78	1.31
1:AA:988:G:H4'	1:AA:1013:G:O3'	1.22	1.31
1:AA:1309:G:OP1	13:AM:127:HIS:NE2	1.61	1.31
18:B3:2048:C:C5'	33:BN:68:ARG:HD2	1.58	1.31
18:B3:2712:G:H5'	37:BR:42:SER:CB	1.59	1.31

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:56:VAL:HG22	37:BR:89:ASP:O	1.17	1.31
10:AJ:75:GLY:CA	14:AN:40:GLN:HG2	1.60	1.31
1:AA:553:A:C2'	12:AL:45:GLY:CA	2.09	1.31
1:AA:1419:G:N2	18:B3:1990:C:H5'	1.40	1.31
1:AA:1329:A:H5'	13:AM:98:TYR:CD2	1.66	1.31
1:AA:1319:A:OP1	17:AS:84:ILE:HD12	1.29	1.31
19:B4:11:A:N6	24:BE:16:PHE:H	1.23	1.31
18:B3:1359:U:OP1	23:BD:92:MET:HE3	1.31	1.31
18:B3:953:G:C3'	36:BQ:13:TYR:CE2	2.14	1.31
1:AA:620:C:C5'	5:AD:129:ILE:HD12	1.61	1.31
18:B3:1993:C:C4	37:BR:35:TYR:OH	1.83	1.31
18:B3:2676:C:OP1	32:BM:73:ARG:HD2	1.17	1.31
1:AA:755:G:OP2	15:AO:123:ARG:HD2	1.29	1.31
1:AA:1300:G:H5'	13:AM:30:TYR:CZ	1.64	1.30
1:AA:1291:G:H5''	7:AG:111:ARG:NH2	1.44	1.30
18:B3:1164:U:C6	30:BK:51:LYS:CG	2.08	1.30
1:AA:190(E):U:O5'	16:AQ:130:ILE:HD13	1.29	1.30
18:B3:67:A:C3'	44:BX:55:LEU:HD21	1.45	1.30
18:B3:2720:C:C5'	38:BS:33:ASN:HD21	1.43	1.30
18:B3:2245:C:C2	18:B3:2246:U:C5	2.04	1.30
2:AT:140:GLU:HG2	2:AT:481:MET:N	0.99	1.30
18:B3:1745:G:H5'	37:BR:22:ILE:CD1	1.58	1.30
18:B3:1119:G:H5'	32:BM:48:ARG:NE	1.41	1.30
1:AA:579:G:O2'	15:AO:112:PHE:HE1	1.07	1.30
1:AA:1226:C:C6	17:AS:124:THR:O	1.82	1.30
30:BK:53:PHE:CE1	30:BK:86:LYS:HD2	1.64	1.30
18:B3:1733:A:N9	22:BC:225:PHE:CE1	1.98	1.30
18:B3:2890:A:C6	38:BS:50:ALA:O	1.82	1.30
18:B3:2214:A:H2'	20:BA:106:LYS:CG	1.59	1.30
20:BA:51:GLY:H	20:BA:54:LYS:N	1.22	1.30
2:AT:464:LEU:CD2	2:AT:510:ARG:HG2	1.60	1.30
18:B3:538:C:C6	42:B0:21:HIS:HE1	1.47	1.30
18:B3:2415:A:C1'	24:BE:39:GLN:CG	1.94	1.30
1:AA:318:G:N1	1:AA:1434:A:C2	1.99	1.30
18:B3:1164:U:C6	30:BK:51:LYS:HB3	1.66	1.30
18:B3:2526:C:O4'	18:B3:2605:G:H5'	1.19	1.30
18:B3:1133:A:O2'	18:B3:2520:G:H1'	1.14	1.30
18:B3:2519:C:C6	28:BI:158:LYS:HE2	1.48	1.30
18:B3:2737:C:OP1	35:BP:62:THR:HG22	1.30	1.30
10:AJ:68:ARG:CB	14:AN:39:ARG:HB2	1.50	1.30
1:AA:1370:G:P	9:AI:123:PRO:HG3	1.72	1.30

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1318:A:C4	17:AS:56:PHE:CE1	2.20	1.30
19:B4:36:C:C4'	24:BE:181:PRO:C	1.94	1.30
19:B4:47:A:P	24:BE:151:GLN:HG2	1.72	1.30
18:B3:1163:G:C5	30:BK:51:LYS:CD	2.15	1.30
10:AJ:70:THR:CB	14:AN:42:PHE:H	1.42	1.30
18:B3:1676:G:C3'	39:BT:115:PRO:CD	2.10	1.30
1:AA:402:G:C1'	1:AA:620:C:C4	2.00	1.30
1:AA:560:U:C1'	1:AA:563:A:O4'	1.78	1.30
2:AT:138:GLN:NE2	18:B3:2698:G:C5'	1.91	1.30
18:B3:1227:C:C1'	32:BM:132:ARG:HH22	1.42	1.30
1:AA:123:C:H5''	1:AA:312:C:O2'	1.19	1.30
1:AA:1309:G:C6	13:AM:95:GLY:HA3	1.65	1.30
1:AA:989:C:O4'	1:AA:1015:A:C8	1.85	1.30
18:B3:2087:C:H4'	33:BN:78:THR:CG2	1.49	1.30
18:B3:170:U:C5'	31:BL:82:LYS:CD	1.95	1.30
18:B3:890:C:C1'	45:BY:48:TRP:O	1.79	1.30
19:B4:97:U:N3	25:BF:220:LYS:CD	1.89	1.30
18:B3:921:G:OP1	41:BV:39:HIS:CB	1.80	1.30
18:B3:921:G:C4'	41:BV:41:ARG:CG	1.87	1.30
6:AE:153:LEU:HD11	8:AH:98:PHE:CB	1.61	1.30
1:AA:633:G:O2'	16:AQ:94:PRO:CB	1.77	1.30
1:AA:404:U:O4	5:AD:70:LEU:HG	1.28	1.30
18:B3:480:C:O3'	18:B3:481:U:H5''	1.19	1.30
1:AA:928:G:H5'	1:AA:1533:C:C5	1.66	1.30
1:AA:1177:G:C3'	9:AI:105:LYS:HD3	1.61	1.29
19:B4:69:U:H1'	24:BE:14:SER:OG	1.29	1.29
19:B4:97:U:N3	25:BF:220:LYS:HD3	1.00	1.29
37:BR:95:PHE:HB2	38:BS:21:PHE:CD1	1.27	1.29
18:B3:2737:C:P	35:BP:62:THR:HG22	1.72	1.29
18:B3:2466:G:OP1	41:BV:38:HIS:HB3	1.28	1.29
10:AJ:70:THR:OG1	14:AN:36:ASN:CB	1.78	1.29
2:AT:108:HIS:ND1	2:AT:540:ILE:CG1	1.95	1.29
1:AA:124:G:C5'	1:AA:289:G:N2	1.94	1.29
18:B3:621:C:C5'	42:B0:36:LYS:N	1.94	1.29
18:B3:1192:A:N7	30:BK:51:LYS:NZ	1.78	1.29
21:BB:177:PRO:HD3	47:B9:25:VAL:CG2	1.59	1.29
1:AA:254:G:O4'	16:AQ:79:MET:HE3	1.14	1.29
18:B3:2829:G:C2	22:BC:125:LYS:NZ	1.72	1.29
1:AA:363:A:O3'	12:AL:50:LYS:HG2	1.13	1.29
18:B3:907:A:C8	18:B3:1328:A:H1'	1.47	1.29
1:AA:668:G:C1'	15:AO:104:ASN:HD21	1.41	1.29

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1137:G:O2'	18:B3:2784:A:H2	0.97	1.29
1:AA:1297:C:H6	13:AM:53:ASP:CG	1.35	1.29
19:B4:50:G:H5'	24:BE:94:ASN:CB	1.60	1.29
18:B3:2052:U:P	33:BN:23:VAL:CG2	2.16	1.29
18:B3:448:G:N3	23:BD:47:GLN:CG	1.94	1.29
18:B3:1875:A:H2'	21:BB:150:PRO:CB	1.62	1.29
18:B3:2093:G:C1'	22:BC:252:GLY:O	1.78	1.29
18:B3:2345:A:P	29:BJ:22:VAL:HG11	1.71	1.29
18:B3:2346:C:H5''	29:BJ:47:SER:C	1.50	1.29
18:B3:1449:G:H5'	39:BT:110:ASN:ND2	1.45	1.29
1:AA:1348:U:O3'	9:AI:134:ARG:HB2	1.22	1.29
1:AA:1370:G:O5'	9:AI:123:PRO:HG3	1.22	1.29
1:AA:865:A:OP1	1:AA:1078:U:C1'	1.77	1.29
1:AA:924:C:O4'	1:AA:1398:A:C5	1.85	1.29
1:AA:1318:A:C2	17:AS:82:ASN:CB	2.16	1.29
18:B3:1335:C:OP1	42:B0:100:ILE:HG23	1.30	1.29
19:B4:86:G:OP1	25:BF:218:LYS:HG3	1.19	1.29
18:B3:67:A:C4	39:BT:60:LYS:NZ	1.92	1.29
18:B3:2347:C:C5	29:BJ:66:VAL:CG1	2.06	1.29
20:BA:55:LEU:CG	20:BA:167:VAL:HG22	1.62	1.29
1:AA:20:U:C4'	1:AA:573:A:C6	2.13	1.29
18:B3:897:A:P	41:BV:26:LYS:HG3	1.71	1.29
18:B3:445:U:OP1	40:BU:14:LYS:CG	1.77	1.29
18:B3:390:G:OP1	46:BZ:47:SER:HB2	1.17	1.29
18:B3:540:A:OP1	42:B0:18:LYS:HG2	1.16	1.29
1:AA:1180:A:C5'	9:AI:117:ILE:HD13	1.62	1.29
18:B3:1310:U:P	23:BD:203:GLY:HA3	1.71	1.29
18:B3:2350:G:C2	29:BJ:116:ASP:HB2	1.64	1.29
1:AA:402:G:C8	1:AA:621:A:N3	2.01	1.29
6:AE:153:LEU:CD1	8:AH:98:PHE:HB3	1.61	1.29
1:AA:1346:A:C5'	9:AI:134:ARG:HH22	1.43	1.29
1:AA:958:A:C4	17:AS:101:ALA:CB	2.16	1.28
18:B3:1689:A:N1	33:BN:128:THR:HG23	1.48	1.28
18:B3:541:C:OP2	42:B0:15:LYS:HD2	1.27	1.28
18:B3:670:G:N2	23:BD:231:SER:CB	1.96	1.28
18:B3:1304:U:C3'	23:BD:194:ARG:HB3	1.44	1.28
18:B3:676:C:O2	23:BD:231:SER:HB2	1.26	1.28
18:B3:1285:U:O3'	25:BF:155:ILE:HG23	1.11	1.28
18:B3:1806:G:H22	18:B3:2883:A:C3'	1.05	1.28
3:AB:141:PRO:CD	8:AH:68:LEU:HD21	1.63	1.28
18:B3:164:G:H4'	41:BV:31:ARG:CG	1.60	1.28

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:89:GLN:HG3	13:AM:109:LEU:N	1.47	1.28
18:B3:882:A:O4'	45:BY:2:LYS:HA	1.17	1.28
19:B4:35:C:O2	24:BE:185:PHE:CB	1.70	1.28
18:B3:2468:A:C5	46:BZ:55:PRO:CG	2.15	1.28
18:B3:92:G:N3	44:BX:42:PRO:CG	1.82	1.28
18:B3:2840:A:P	22:BC:224:GLY:HA3	1.72	1.28
26:BG:161:LEU:HD22	31:BL:3:TYR:OH	1.21	1.28
1:AA:618:C:C3'	5:AD:142:ASN:OD1	1.81	1.28
1:AA:676:A:C8	11:AK:121:PRO:N	1.77	1.28
18:B3:1397:C:O3'	35:BP:23:LEU:CB	1.71	1.28
18:B3:445:U:OP1	40:BU:14:LYS:HG2	1.20	1.28
1:AA:1177:G:C5'	9:AI:105:LYS:HD2	1.60	1.28
18:B3:2328:U:OP1	24:BE:153:THR:CB	1.80	1.28
19:B4:11:A:C5	24:BE:14:SER:HA	1.52	1.28
18:B3:2050:G:O2'	33:BN:84:ALA:CB	1.80	1.28
18:B3:745:G:C6	34:BO:91:ALA:HB2	1.67	1.28
1:AA:131:C:O3'	1:AA:264:U:H5'	1.33	1.28
18:B3:2826:G:H2'	22:BC:123:LYS:C	1.51	1.28
22:BC:71:VAL:H	37:BR:88:ARG:CA	1.38	1.28
18:B3:2136:G:N2	18:B3:2238:A:C6	2.01	1.28
1:AA:1343:G:O3'	9:AI:136:ARG:HB3	1.19	1.28
18:B3:390:G:OP1	46:BZ:47:SER:CB	1.81	1.28
13:AM:129:TRP:CZ3	17:AS:121:ILE:HD13	1.68	1.28
1:AA:1309:G:O6	13:AM:95:GLY:HA3	1.11	1.28
18:B3:1415:G:C5'	45:BY:13:LYS:CE	2.12	1.28
19:B4:36:C:H5'	24:BE:181:PRO:O	1.15	1.28
18:B3:890:C:C2'	45:BY:48:TRP:O	1.81	1.28
18:B3:2520:G:OP1	28:BI:160:PRO:CG	1.78	1.28
18:B3:2709:G:C5	37:BR:7:GLN:NE2	2.00	1.28
10:AJ:75:GLY:CA	14:AN:40:GLN:CG	2.12	1.28
1:AA:1226:C:C2	17:AS:126:VAL:O	1.87	1.28
1:AA:1227:A:OP1	17:AS:125:PRO:HB3	1.15	1.28
18:B3:538:C:C6	42:B0:21:HIS:CE1	2.20	1.28
18:B3:672:G:O4'	23:BD:214:ILE:CG2	1.80	1.28
18:B3:111:C:O2'	18:B3:119:A:N6	1.64	1.28
18:B3:1164:U:H2'	30:BK:51:LYS:CB	1.64	1.28
18:B3:1874:U:P	21:BB:127:ARG:CG	2.21	1.28
1:AA:6:G:H4'	1:AA:298:A:C3'	1.61	1.28
18:B3:78:G:C4'	40:BU:25:SER:OG	1.80	1.28
18:B3:1308:A:O2'	23:BD:204:PRO:HB3	1.27	1.27
18:B3:1359:U:C5'	23:BD:91:ASN:CB	2.10	1.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1872:C:N3	21:BB:22:ARG:CG	1.97	1.27
22:BC:70:GLU:CA	37:BR:88:ARG:CG	2.08	1.27
18:B3:175:G:H2'	31:BL:194:ASN:OD1	1.13	1.27
18:B3:710:G:OP1	34:BO:42:ALA:HB1	1.24	1.27
18:B3:750:A:C1'	23:BD:116:GLU:HG2	1.63	1.27
18:B3:52:A:H5'	45:BY:19:ASN:O	1.28	1.27
18:B3:2468:A:C6	46:BZ:55:PRO:HD3	1.68	1.27
18:B3:2827:A:OP2	22:BC:122:TYR:HA	1.17	1.27
18:B3:1794:G:C5'	35:BP:97:ARG:HG3	1.65	1.27
18:B3:2345:A:OP2	29:BJ:22:VAL:HG11	1.33	1.27
1:AA:621:A:OP2	5:AD:143:ILE:HG12	1.25	1.27
1:AA:1220:G:C2'	17:AS:78:THR:O	1.74	1.27
18:B3:2087:C:O4'	33:BN:78:THR:HG22	1.24	1.27
18:B3:26:U:C2'	18:B3:1319:G:H2'	1.50	1.27
18:B3:1348:A:C5'	23:BD:241:ALA:CB	1.78	1.27
18:B3:2820:A:H1'	22:BC:89:VAL:CG1	1.63	1.27
18:B3:921:G:H4'	41:BV:41:ARG:CG	1.27	1.27
6:AE:157:THR:CG2	8:AH:127:PHE:CE1	2.16	1.27
1:AA:25:C:H4'	12:AL:109:ARG:NE	1.48	1.27
27:BH:40:HIS:O	32:BM:126:LEU:HA	1.09	1.27
27:BH:62:ARG:CB	32:BM:129:LYS:HE2	1.56	1.27
1:AA:518:C:O2	12:AL:66:SER:N	1.63	1.27
1:AA:1177:G:C4'	9:AI:105:LYS:CD	2.13	1.27
1:AA:1177:G:C4'	9:AI:105:LYS:HD3	1.64	1.27
18:B3:1806:G:C5'	18:B3:2874:G:O2'	1.81	1.27
18:B3:2214:A:N3	20:BA:106:LYS:HB2	1.45	1.27
10:AJ:70:THR:CG2	14:AN:40:GLN:N	1.97	1.27
1:AA:1346:A:H5'	9:AI:134:ARG:NH2	1.49	1.27
1:AA:924:C:O4'	1:AA:1398:A:C4	1.86	1.27
1:AA:988:G:C4'	1:AA:1014:A:P	2.22	1.27
1:AA:1298:C:N4	7:AG:184:ARG:HH11	1.31	1.27
19:B4:119:C:C6	24:BE:71:GLY:CA	2.18	1.27
18:B3:2829:G:C4	22:BC:125:LYS:NZ	1.68	1.27
18:B3:2264:A:H5''	31:BL:92:LYS:NZ	1.45	1.27
1:AA:860:A:O3'	8:AH:18:LYS:NZ	1.67	1.27
2:AT:463:LEU:HA	2:AT:513:LYS:NZ	1.47	1.27
1:AA:1419:G:N3	18:B3:1990:C:C4'	1.98	1.27
27:BH:57:VAL:HG21	32:BM:126:LEU:CD1	1.65	1.27
18:B3:1131:G:C4	18:B3:2522:G:O3'	1.88	1.27
18:B3:73:C:OP1	44:BX:5:LYS:HA	1.27	1.27
13:AM:92:ILE:N	13:AM:109:LEU:CD1	1.96	1.26

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:C4'	13:AM:98:TYR:CD1	2.16	1.26
19:B4:48:C:C3'	24:BE:158:ARG:CG	2.11	1.26
18:B3:1343:C:OP1	23:BD:192:LYS:CD	1.81	1.26
18:B3:894:A:N3	23:BD:98:MET:HB3	1.45	1.26
18:B3:1163:G:C5	30:BK:51:LYS:CE	2.18	1.26
18:B3:1869:A:H2'	21:BB:192:ARG:CZ	1.62	1.26
22:BC:70:GLU:CB	37:BR:88:ARG:HG2	1.65	1.26
18:B3:1732:A:H1'	18:B3:2840:A:P	1.72	1.26
18:B3:2669:U:O2	22:BC:131:LYS:HD3	1.15	1.26
18:B3:433:C:H4'	31:BL:149:TRP:CE3	1.70	1.26
18:B3:2244:A:C5'	31:BL:27:TRP:CH2	2.18	1.26
18:B3:1705:C:O3'	35:BP:65:HIS:HD2	1.15	1.26
1:AA:1309:G:C3'	13:AM:92:ILE:CG1	1.82	1.26
18:B3:677:C:O3'	23:BD:256:LYS:HG2	1.24	1.26
1:AA:190(E):U:C5'	16:AQ:130:ILE:HD13	1.65	1.26
1:AA:538:G:P	12:AL:142:LYS:HG3	1.72	1.26
18:B3:1206:C:C2	18:B3:1207:A:C5	2.16	1.26
18:B3:1675:C:O5'	39:BT:113:VAL:HA	1.23	1.26
18:B3:906:C:C1'	18:B3:1329:A:C8	2.18	1.26
18:B3:905:C:H5''	41:BV:11:ARG:CD	1.66	1.26
2:AT:745:SER:OG	18:B3:2508:C:N4	1.68	1.26
18:B3:844:A:P	33:BN:130:ARG:HB2	1.74	1.26
18:B3:882:A:O4'	45:BY:2:LYS:CA	1.82	1.26
18:B3:1335:C:OP1	42:B0:100:ILE:CG2	1.83	1.26
18:B3:1206:C:C2	18:B3:1207:A:N9	2.03	1.26
18:B3:2826:G:O2'	22:BC:124:SER:CA	1.84	1.26
18:B3:2826:G:O2'	22:BC:124:SER:HA	1.33	1.26
18:B3:1593:C:OP1	35:BP:116:LYS:HB2	1.18	1.26
20:BA:108:ASN:OD1	20:BA:162:VAL:N	1.65	1.26
2:AT:137:VAL:CA	2:AT:481:MET:SD	2.23	1.26
1:AA:1219:U:C2	17:AS:77:ARG:O	1.88	1.26
1:AA:956:U:H1'	17:AS:126:VAL:CB	1.65	1.26
18:B3:537:G:C1'	42:B0:21:HIS:NE2	1.98	1.26
18:B3:1306:U:C5	23:BD:194:ARG:NH2	2.00	1.26
18:B3:1304:U:C2'	23:BD:194:ARG:HB3	1.65	1.26
18:B3:1285:U:C5'	25:BF:155:ILE:HG21	1.64	1.26
18:B3:2345:A:H5''	29:BJ:48:LYS:CD	1.54	1.26
18:B3:1118:A:C5'	18:B3:1228:C:H5	1.46	1.26
1:AA:633:G:O2'	16:AQ:94:PRO:HB3	1.12	1.26
1:AA:1503:A:N7	1:AA:1531:A:N1	1.83	1.26
18:B3:1154:A:C8	18:B3:1155:G:H2'	1.69	1.26

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1014:A:P	17:AS:72:LYS:HZ1	1.57	1.26
1:AA:318:G:N2	1:AA:1434:A:C6	2.04	1.26
1:AA:620:C:C5'	5:AD:129:ILE:CD1	2.13	1.26
1:AA:777:A:N7	11:AK:126:ARG:NH2	1.83	1.26
1:AA:1331:G:N7	13:AM:41:ARG:CB	1.99	1.25
18:B3:618:G:C8	42:B0:46:PHE:HD1	1.30	1.25
18:B3:2720:C:OP1	38:BS:33:ASN:CG	1.73	1.25
18:B3:2245:C:C6	18:B3:2246:U:H5	1.54	1.25
18:B3:1806:G:H4'	18:B3:2874:G:C1'	1.66	1.25
18:B3:898:G:OP2	41:BV:25:ARG:HG3	1.27	1.25
18:B3:2165:G:N3	20:BA:207:LYS:CE	1.98	1.25
2:AT:465:LYS:NZ	2:AT:511:LEU:CG	1.98	1.25
1:AA:779:C:H5'	11:AK:132:ARG:C	1.56	1.25
1:AA:988:G:H1'	1:AA:1014:A:C2'	1.54	1.25
18:B3:2413:A:C1'	24:BE:175:HIS:H	1.45	1.25
18:B3:2661:U:N3	18:B3:2812:A:N6	1.66	1.25
18:B3:1192:A:H61	30:BK:108:GLU:CD	1.25	1.25
18:B3:107:U:C1'	44:BX:56:THR:HB	1.64	1.25
18:B3:1003:U:OP1	28:BI:90:ARG:HD2	1.30	1.25
18:B3:155:C:OP1	31:BL:190:TRP:CE3	1.89	1.25
18:B3:1801:A:H5'	35:BP:88:LEU:CD1	1.65	1.25
1:AA:102:G:H1'	1:AA:151:A:O2'	1.29	1.25
18:B3:1243:C:H5''	32:BM:17:ARG:CZ	1.66	1.25
1:AA:143:A:C8	1:AA:200:G:C1'	2.13	1.25
1:AA:666:G:N2	15:AO:109:ASP:OD2	1.70	1.25
1:AA:956:U:O4'	17:AS:126:VAL:HB	1.32	1.25
1:AA:335:C:C1'	1:AA:1434:A:C8	2.10	1.25
18:B3:1285:U:O3'	25:BF:155:ILE:CG2	1.83	1.25
18:B3:793:A:OP1	35:BP:83:THR:HG21	1.14	1.25
1:AA:130:A:H5''	1:AA:190(E):U:OP1	1.16	1.25
22:BC:260:MET:CB	32:BM:66:THR:CG2	2.15	1.25
18:B3:2736:U:H3'	35:BP:61:ARG:CB	1.65	1.25
18:B3:1708:C:C5	35:BP:81:LYS:HG2	1.71	1.25
10:AJ:70:THR:CA	14:AN:42:PHE:CB	1.97	1.25
1:AA:877:C:H1'	8:AH:3:SER:OG	1.11	1.25
1:AA:713:G:C2	11:AK:124:SER:O	1.88	1.25
1:AA:1344:C:OP1	9:AI:136:ARG:CD	1.84	1.25
1:AA:21:G:C4'	1:AA:885:G:H5'	1.67	1.25
18:B3:814:G:H5'	35:BP:129:ASN:OD1	1.23	1.25
1:AA:1329:A:C2	13:AM:92:ILE:O	1.88	1.25
1:AA:956:U:C1'	17:AS:126:VAL:CG2	2.15	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2424:U:O2'	36:BQ:6:GLY:HA3	1.33	1.25
18:B3:2545:U:O2'	22:BC:238:PRO:HG3	1.10	1.25
18:B3:2334:C:C2	29:BJ:114:LYS:C	2.10	1.25
10:AJ:73:GLY:CA	14:AN:25:SER:HB3	1.64	1.25
5:AD:91:LYS:HA	6:AE:173:ARG:O	1.33	1.25
1:AA:553:A:OP1	12:AL:40:SER:CB	1.83	1.25
19:B4:49:G:OP2	24:BE:158:ARG:HB3	1.35	1.25
30:BK:53:PHE:HE1	30:BK:86:LYS:CD	1.48	1.25
18:B3:68:U:O5'	44:BX:55:LEU:CB	1.65	1.25
18:B3:90:A:O2'	44:BX:39:PRO:CG	1.83	1.25
18:B3:2762:C:O2	37:BR:83:LYS:HE3	1.09	1.25
18:B3:251:C:C1'	31:BL:139:LYS:CE	2.12	1.25
10:AJ:69:LYS:CB	14:AN:39:ARG:NH1	1.90	1.25
1:AA:523:A:N1	12:AL:116:ASP:N	1.83	1.25
18:B3:399:C:OP1	31:BL:180:ASN:HB2	1.13	1.25
1:AA:989:C:C5'	1:AA:1013:G:N3	2.00	1.24
18:B3:1074:G:H5''	42:B0:45:ARG:CD	1.65	1.24
1:AA:1178:G:P	9:AI:105:LYS:CG	2.26	1.24
19:B4:50:G:C2'	24:BE:93:THR:H	1.30	1.24
18:B3:1942:A:O2'	21:BB:222:SER:HB2	1.35	1.24
18:B3:1862:C:H5''	21:BB:7:GLN:OE1	1.18	1.24
1:AA:255:G:H5'	16:AQ:80:HIS:O	1.32	1.24
1:AA:190(E):U:O2	16:AQ:131:SER:HB2	1.32	1.24
18:B3:1733:A:H1'	22:BC:225:PHE:CD1	1.66	1.24
18:B3:1676:G:H5''	39:BT:115:PRO:CD	1.53	1.24
1:AA:66:G:C4'	1:AA:173:U:O2	1.82	1.24
18:B3:2460:A:O2'	46:BZ:60:LYS:HG3	1.09	1.24
18:B3:1687:C:O2'	45:BY:8:GLY:HA3	1.21	1.24
1:AA:1307:U:C6	13:AM:144:ARG:NH2	1.79	1.24
1:AA:1308:U:OP1	13:AM:145:ARG:HD3	1.37	1.24
1:AA:1320:C:O2	17:AS:119:PHE:HD1	1.12	1.24
19:B4:117:G:C4	24:BE:70:THR:HG22	1.43	1.24
19:B4:11:A:C5	24:BE:14:SER:CA	2.11	1.24
18:B3:2413:A:C2'	24:BE:174:PRO:HB3	1.65	1.24
18:B3:1370:G:H5'	33:BN:63:ASN:N	1.15	1.24
18:B3:2660:G:OP1	33:BN:71:GLN:NE2	1.71	1.24
1:AA:131:C:O2'	1:AA:264:U:C6	1.83	1.24
18:B3:2764:C:C5'	37:BR:85:TRP:O	1.83	1.24
18:B3:2737:C:O3'	35:BP:58:SER:O	1.52	1.24
18:B3:1793:C:O3'	35:BP:97:ARG:HD3	1.32	1.24
18:B3:924:G:O6	41:BV:41:ARG:HB2	1.33	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:57:ASN:ND2	20:BA:155:ILE:CD1	2.00	1.24
18:B3:1446:U:OP1	39:BT:70:THR:HB	1.33	1.24
1:AA:554:C:O4'	12:AL:45:GLY:N	1.65	1.24
2:AT:463:LEU:CA	2:AT:513:LYS:NZ	2.00	1.24
18:B3:882:A:C4'	45:BY:2:LYS:CA	2.16	1.24
7:AG:111:ARG:NH2	9:AI:41:GLU:CB	2.00	1.24
18:B3:2387:U:O3'	36:BQ:88:ARG:CB	1.85	1.24
18:B3:2050:G:C2'	33:BN:84:ALA:HB3	1.44	1.24
18:B3:449:A:H4'	18:B3:1306:U:C6	1.73	1.24
18:B3:520:A:H5'	18:B3:1321:A:O3'	1.36	1.24
18:B3:1183:C:O2'	30:BK:85:LEU:HD12	1.35	1.24
18:B3:1809:G:C2	18:B3:2732:U:H5'	1.73	1.24
18:B3:2346:C:H5''	29:BJ:47:SER:CA	1.67	1.24
18:B3:2336:G:C4'	29:BJ:101:PHE:CZ	2.21	1.24
18:B3:1674:C:O5'	39:BT:111:THR:HG23	1.31	1.24
18:B3:2558:G:O2'	18:B3:2799:A:O3'	1.52	1.24
1:AA:405:U:OP1	5:AD:37:LYS:HE2	1.27	1.24
1:AA:1332:A:OP2	13:AM:40:ARG:HD3	1.07	1.24
13:AM:92:ILE:HG13	13:AM:123:ARG:NH2	1.48	1.24
18:B3:777:U:O2'	45:BY:10:ARG:CG	1.86	1.24
18:B3:882:A:C1'	45:BY:2:LYS:CG	2.16	1.24
18:B3:2387:U:O3'	36:BQ:88:ARG:HB3	1.32	1.24
18:B3:1370:G:C5'	33:BN:63:ASN:N	1.99	1.24
18:B3:677:C:OP1	23:BD:121:THR:HG23	1.25	1.24
18:B3:676:C:O3'	23:BD:232:LEU:O	1.52	1.24
18:B3:1181:A:C2	30:BK:105:GLN:CB	2.21	1.24
18:B3:2671:U:OP1	22:BC:178:ALA:CB	1.86	1.24
22:BC:359:ASP:OD1	38:BS:14:TYR:HB2	1.08	1.24
37:BR:92:PHE:CD1	38:BS:20:LEU:HD21	1.72	1.24
1:AA:553:A:OP1	12:AL:40:SER:HB3	1.09	1.24
1:AA:580:U:H4'	15:AO:115:ILE:CG2	1.67	1.24
18:B3:2404:G:C8	36:BQ:69:LYS:HD3	1.63	1.24
18:B3:2415:A:H2	24:BE:35:ARG:NE	1.29	1.24
18:B3:1309:U:C5	23:BD:202:ARG:O	1.91	1.24
1:AA:676:A:C8	11:AK:120:VAL:C	1.98	1.24
1:AA:293:G:O3'	1:AA:610:G:H1'	1.12	1.24
1:AA:405:U:O5'	5:AD:37:LYS:HE3	1.36	1.24
18:B3:112:G:O2'	18:B3:114:A:C8	1.90	1.24
1:AA:1329:A:C4'	13:AM:98:TYR:CG	2.17	1.23
1:AA:989:C:O4'	1:AA:1015:A:N7	1.69	1.23
18:B3:111:C:OP1	18:B3:117:A:N6	1.65	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1025:C:O4'	25:BF:104:LEU:HD12	1.38	1.23
18:B3:2652:U:C2	22:BC:257:ALA:HB1	1.73	1.23
18:B3:2283:G:N1	28:BI:105:CYS:HA	1.52	1.23
18:B3:2037:C:H3'	37:BR:47:ASN:ND2	1.27	1.23
18:B3:2245:C:N1	18:B3:2246:U:C5	1.87	1.23
10:AJ:78:THR:OG1	14:AN:39:ARG:CZ	1.86	1.23
1:AA:554:C:N1	12:AL:45:GLY:HA3	1.51	1.23
2:AT:536:LEU:CD2	18:B3:2698:G:O2'	1.86	1.23
18:B3:1687:C:O2'	45:BY:8:GLY:CA	1.85	1.23
1:AA:1221:G:OP1	17:AS:81:ARG:HA	1.33	1.23
18:B3:1694:G:N3	45:BY:5:PRO:CD	1.99	1.23
18:B3:537:G:H1'	42:B0:21:HIS:NE2	1.51	1.23
19:B4:69:U:C1'	24:BE:14:SER:OG	1.86	1.23
18:B3:672:G:O5'	23:BD:214:ILE:HG23	1.36	1.23
18:B3:53:C:H5'	18:B3:121:U:C3'	1.67	1.23
18:B3:1872:C:O2	21:BB:23:GLN:O	1.56	1.23
18:B3:1872:C:N3	21:BB:22:ARG:HG3	1.53	1.23
18:B3:2442:G:OP1	41:BV:61:HIS:NE2	1.69	1.23
19:B4:97:U:O2	25:BF:220:LYS:CD	1.82	1.23
1:AA:131:C:H6	16:AQ:128:ARG:CG	1.51	1.23
18:B3:2820:A:O5'	22:BC:101:LEU:C	1.75	1.23
18:B3:2244:A:H5''	31:BL:27:TRP:CZ3	1.72	1.23
2:AT:536:LEU:HD22	18:B3:2698:G:O2'	1.25	1.23
1:AA:988:G:C4'	1:AA:1013:G:O3'	1.86	1.23
18:B3:620:A:O3'	42:B0:40:SER:CB	1.86	1.23
18:B3:1003:U:O5'	28:BI:90:ARG:NE	1.68	1.23
18:B3:2735:U:OP2	35:BP:79:LYS:HE3	1.36	1.23
10:AJ:71:PRO:CD	14:AN:36:ASN:CG	2.06	1.23
1:AA:1419:G:N2	18:B3:1990:C:C5'	1.94	1.23
6:AE:102:VAL:CG2	6:AE:189:LEU:CD2	2.15	1.23
18:B3:906:C:N3	18:B3:1328:A:C5	2.07	1.23
18:B3:20:G:H4'	33:BN:5:ALA:O	1.29	1.23
1:AA:318:G:H1'	1:AA:1468:A:O4'	1.35	1.23
1:AA:319:G:C4	1:AA:1434:A:N1	2.07	1.23
18:B3:170:U:OP1	31:BL:82:LYS:N	1.70	1.23
31:BL:82:LYS:CE	46:BZ:49:PHE:HB3	1.60	1.23
18:B3:2806:C:H4'	22:BC:343:THR:CG2	1.67	1.23
18:B3:1794:G:OP1	35:BP:97:ARG:HG2	1.09	1.23
1:AA:401:C:OP1	5:AD:78:ARG:N	1.70	1.23
18:B3:2565:C:N3	27:BH:171:ASP:HB3	1.54	1.23
18:B3:1885:A:O2'	47:B9:19:SER:HB3	1.38	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:8:G:N7	24:BE:21:ARG:HD3	1.53	1.23
1:AA:318:G:N1	1:AA:1434:A:N3	1.86	1.23
18:B3:449:A:H4'	23:BD:194:ARG:NH2	1.51	1.23
18:B3:68:U:OP1	39:BT:59:TYR:OH	1.55	1.23
22:BC:260:MET:HG3	32:BM:66:THR:CG2	1.67	1.23
18:B3:2349:G:H4'	29:BJ:15:LYS:NZ	1.52	1.23
18:B3:2797:C:OP1	27:BH:127:PRO:CG	1.86	1.23
1:AA:1081:G:OP2	6:AE:88:GLN:OE1	1.53	1.23
1:AA:677:U:H5	11:AK:121:PRO:CG	1.52	1.23
18:B3:1385:G:H4'	43:BW:49:ARG:O	1.37	1.23
18:B3:2552:C:C5'	18:B3:2553:A:C2	2.20	1.23
1:AA:919:A:C4'	1:AA:1079:G:H22	1.43	1.23
1:AA:21:G:O4'	1:AA:885:G:H5'	1.12	1.23
18:B3:195:C:H5'	31:BL:178:LYS:CB	1.67	1.23
18:B3:621:C:H5''	42:B0:36:LYS:N	1.34	1.22
1:AA:320:C:H4'	1:AA:1436:U:C2	1.72	1.22
18:B3:449:A:C4'	18:B3:1306:U:C6	2.21	1.22
18:B3:1359:U:C5'	23:BD:91:ASN:HB2	1.59	1.22
1:AA:231:G:C2	1:AA:263:A:H2	1.55	1.22
18:B3:2093:G:C2	22:BC:257:ALA:O	1.90	1.22
18:B3:2338:G:OP2	29:BJ:122:PHE:N	1.70	1.22
18:B3:2214:A:C2'	20:BA:106:LYS:HD2	1.68	1.22
10:AJ:71:PRO:HD2	14:AN:36:ASN:CB	1.68	1.22
2:AT:140:GLU:CB	2:AT:481:MET:CE	2.16	1.22
18:B3:1118:A:H5'	18:B3:1228:C:C5	1.74	1.22
1:AA:16:A:C2	1:AA:918:A:N1	1.98	1.22
18:B3:907:A:C5'	18:B3:1328:A:H4'	1.68	1.22
18:B3:905:C:C2	18:B3:1330:A:N9	2.05	1.22
1:AA:1503:A:H5'	1:AA:1530:G:N3	1.54	1.22
1:AA:1329:A:N1	13:AM:94:ASP:O	1.68	1.22
1:AA:1316:G:C2	17:AS:49:MET:HE2	1.73	1.22
18:B3:745:G:O6	34:BO:91:ALA:HB2	1.07	1.22
18:B3:1352:A:OP2	23:BD:108:TRP:NE1	1.71	1.22
18:B3:487:G:O5'	40:BU:90:VAL:HB	1.30	1.22
18:B3:67:A:C5'	44:BX:55:LEU:HD23	1.69	1.22
18:B3:2837:U:O2	22:BC:334:ILE:HA	1.06	1.22
18:B3:2820:A:C5'	22:BC:101:LEU:HB2	1.53	1.22
1:AA:65:U:O4'	1:AA:96:G:OP2	1.57	1.22
18:B3:1383:U:O2'	43:BW:32:VAL:HG12	1.36	1.22
1:AA:634:C:H3'	16:AQ:92:TYR:OH	1.11	1.22
1:AA:21:G:H4'	1:AA:884:U:O3'	1.08	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:906:C:C2	18:B3:1329:A:C8	2.28	1.22
18:B3:1154:A:H8	18:B3:1155:G:C2'	1.50	1.22
1:AA:1297:C:C6	13:AM:53:ASP:CG	2.12	1.22
18:B3:621:C:C5'	42:B0:36:LYS:H	1.47	1.22
18:B3:1348:A:C2'	23:BD:39:THR:CA	2.04	1.22
18:B3:472:A:O3'	45:BY:48:TRP:HH2	1.13	1.22
18:B3:1163:G:N9	30:BK:51:LYS:HG3	1.53	1.22
18:B3:107:U:C1'	44:BX:56:THR:CB	2.13	1.22
18:B3:968:G:O2'	28:BI:39:LYS:HG3	1.09	1.22
18:B3:1801:A:C5'	35:BP:88:LEU:HD11	1.68	1.22
18:B3:1566:C:C4'	35:BP:56:VAL:CG1	2.01	1.22
18:B3:2345:A:C1'	29:BJ:23:GLY:H	1.41	1.22
18:B3:2165:G:C2'	20:BA:207:LYS:HE3	1.67	1.22
18:B3:1677:U:P	39:BT:115:PRO:HD2	1.79	1.22
1:AA:61:G:O2'	1:AA:387:U:H5'	1.39	1.22
27:BH:57:VAL:CG2	32:BM:126:LEU:HD11	1.70	1.22
1:AA:1071:C:OP1	6:AE:90:ARG:N	1.73	1.22
18:B3:1501:A:OP2	35:BP:37:ARG:HG2	1.33	1.22
18:B3:2457:U:O3'	46:BZ:83:THR:HA	1.38	1.22
1:AA:919:A:O4'	1:AA:1079:G:N2	1.70	1.22
18:B3:903:U:C4	41:BV:15:SER:CA	2.21	1.22
1:AA:1329:A:C5'	13:AM:98:TYR:CD2	2.17	1.22
18:B3:35:U:O2'	23:BD:48:ALA:HB3	1.07	1.22
18:B3:1707:G:O2'	35:BP:81:LYS:HG3	1.36	1.22
20:BA:108:ASN:OD1	20:BA:162:VAL:HG23	1.38	1.22
18:B3:124:C:C5	39:BT:88:LYS:HD2	1.72	1.22
1:AA:70:G:N2	1:AA:101:A:N6	1.85	1.22
18:B3:2579:G:H5'	18:B3:2680:A:O4'	1.38	1.22
18:B3:1226:G:O2'	32:BM:132:ARG:NH1	1.71	1.22
18:B3:1243:C:H5'	32:BM:17:ARG:NH2	1.34	1.22
18:B3:81:G:C3'	40:BU:75:ARG:HG3	1.68	1.22
1:AA:1505:G:C8	1:AA:1506:U:H6	1.58	1.22
1:AA:125:U:H5'	1:AA:291:C:O4'	1.40	1.22
1:AA:988:G:N3	1:AA:1014:A:C2'	2.00	1.22
1:AA:1302:U:O5'	13:AM:54:LEU:HD23	1.06	1.22
18:B3:2060:A:O2'	42:B0:24:ARG:HD3	1.32	1.22
1:AA:1177:G:C8	9:AI:106:LYS:HG3	1.46	1.22
18:B3:501:G:O4'	33:BN:16:ALA:CB	1.88	1.22
18:B3:2087:C:H4'	33:BN:78:THR:CB	1.68	1.22
18:B3:751:U:OP1	23:BD:111:LYS:O	1.53	1.22
18:B3:672:G:C5'	23:BD:214:ILE:CD1	2.10	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:473:A:C5'	45:BY:48:TRP:CZ2	2.21	1.22
31:BL:82:LYS:CD	46:BZ:49:PHE:CD1	1.86	1.22
18:B3:1285:U:H4'	25:BF:155:ILE:CG1	1.69	1.22
37:BR:94:TYR:HD1	38:BS:21:PHE:CE2	1.35	1.22
1:AA:345:C:O2'	37:BR:133:SER:OG	1.57	1.22
18:B3:2283:G:O6	28:BI:105:CYS:HB3	1.10	1.22
18:B3:2826:G:H2'	22:BC:123:LYS:CA	1.69	1.22
22:BC:365:GLY:HA3	38:BS:35:LYS:CG	1.68	1.22
18:B3:921:G:O3'	41:BV:41:ARG:CG	1.81	1.22
18:B3:2336:G:C4'	29:BJ:101:PHE:CE1	2.22	1.22
18:B3:124:C:C5	39:BT:88:LYS:CD	2.20	1.22
1:AA:523:A:H61	12:AL:116:ASP:HB2	1.05	1.22
18:B3:2704:C:O2	27:BH:121:LYS:HB2	1.05	1.22
18:B3:302:A:OP1	40:BU:28:ARG:NH2	1.73	1.22
18:B3:620:A:O2'	42:B0:20:HIS:NE2	1.70	1.21
18:B3:618:G:H4'	42:B0:44:ARG:O	1.04	1.21
18:B3:501:G:C5'	33:BN:16:ALA:HA	1.61	1.21
18:B3:672:G:C4'	23:BD:214:ILE:HG21	1.68	1.21
18:B3:1192:A:N6	30:BK:108:GLU:CD	1.83	1.21
1:AA:264:U:O2'	16:AQ:129:PRO:O	1.58	1.21
18:B3:2244:A:C5'	31:BL:27:TRP:CZ3	2.23	1.21
18:B3:2336:G:H4'	29:BJ:101:PHE:CE2	1.74	1.21
18:B3:1943:C:C5'	21:BB:218:ILE:CD1	2.19	1.21
1:AA:619:U:O2'	5:AD:129:ILE:HD13	1.07	1.21
1:AA:400:C:C5'	5:AD:77:ILE:HD12	1.70	1.21
5:AD:92:LYS:N	6:AE:174:GLY:HA3	1.53	1.21
2:AT:465:LYS:HG3	2:AT:510:ARG:O	1.39	1.21
2:AT:536:LEU:CD1	18:B3:2699:A:H5'	1.69	1.21
18:B3:1118:A:C5'	18:B3:1228:C:C5	2.24	1.21
1:AA:292:G:H2'	1:AA:609:A:C5	1.73	1.21
1:AA:436:C:O2	1:AA:496:A:H2'	1.29	1.21
18:B3:53:C:O2'	18:B3:122:C:OP2	1.56	1.21
18:B3:1847:A:N9	21:BB:180:LYS:HB3	1.23	1.21
18:B3:949:U:C1'	36:BQ:100:LYS:CB	2.13	1.21
19:B4:86:G:OP1	25:BF:218:LYS:CG	1.87	1.21
18:B3:2657:G:OP1	22:BC:19:LYS:CB	1.69	1.21
18:B3:2819:C:O5'	22:BC:99:ARG:O	1.58	1.21
18:B3:2762:C:O2'	37:BR:83:LYS:HD3	1.39	1.21
18:B3:2709:G:N7	37:BR:7:GLN:NE2	1.86	1.21
18:B3:2796:U:O3'	27:BH:127:PRO:HG2	1.32	1.21
6:AE:102:VAL:HG23	6:AE:189:LEU:CD2	1.69	1.21

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1408:A:H5'	18:B3:1960:A:P	1.80	1.21
1:AA:1299:A:C5'	13:AM:57:ARG:NH1	1.93	1.21
19:B4:85:A:C5'	25:BF:131:PRO:CB	2.19	1.21
18:B3:2837:U:O2	22:BC:334:ILE:CB	1.86	1.21
18:B3:2763:G:C3'	37:BR:14:SER:OG	1.83	1.21
18:B3:2244:A:H4'	31:BL:27:TRP:CZ3	1.73	1.21
18:B3:2350:G:OP1	29:BJ:139:ARG:HG2	1.25	1.21
1:AA:364:A:C5	12:AL:78:LYS:HD3	1.69	1.21
1:AA:65:U:O2'	1:AA:382:A:N1	1.72	1.21
2:AT:738:GLN:CA	18:B3:1199:A:N6	2.01	1.21
1:AA:928:G:H5'	1:AA:1533:C:C4	1.76	1.21
18:B3:195:C:C5'	31:BL:178:LYS:HB3	1.67	1.21
1:AA:1239:A:N3	7:AG:184:ARG:NH1	1.86	1.21
1:AA:1177:G:O3'	9:AI:105:LYS:CD	1.87	1.21
18:B3:1311:G:N7	23:BD:185:LYS:CB	2.04	1.21
18:B3:1733:A:C1'	22:BC:225:PHE:HD1	1.45	1.21
18:B3:2093:G:C2'	22:BC:253:ALA:CB	2.08	1.21
18:B3:2808:U:O2'	22:BC:15:PHE:HA	1.22	1.21
22:BC:260:MET:CG	32:BM:66:THR:CG2	2.17	1.21
18:B3:1789:G:O2'	18:B3:2877:G:C1'	1.87	1.21
18:B3:124:C:H5	39:BT:88:LYS:CD	1.53	1.21
1:AA:25:C:C4'	12:AL:109:ARG:CZ	2.16	1.21
2:AT:140:GLU:CB	2:AT:481:MET:CG	1.76	1.21
18:B3:2381:C:H1'	46:BZ:10:TYR:CD1	1.02	1.21
18:B3:2853:U:C5'	22:BC:170:LEU:CD2	2.16	1.21
18:B3:81:G:O3'	40:BU:74:TYR:O	1.56	1.21
1:AA:405:U:P	5:AD:37:LYS:HE3	1.79	1.21
18:B3:2434:A:OP1	46:BZ:35:PHE:CG	1.93	1.21
1:AA:956:U:C1'	17:AS:126:VAL:HG21	1.71	1.21
1:AA:1331:G:N7	13:AM:41:ARG:HB2	1.51	1.21
1:AA:1299:A:C4'	13:AM:57:ARG:HH12	1.53	1.21
18:B3:1415:G:H5'	45:BY:13:LYS:CE	1.70	1.21
18:B3:1352:A:C4	23:BD:50:ALA:N	2.08	1.21
1:AA:255:G:C5'	16:AQ:80:HIS:O	1.89	1.21
18:B3:2337:G:OP1	29:BJ:103:PHE:HB2	1.38	1.21
20:BA:43:PRO:CB	20:BA:132:GLY:O	1.86	1.21
1:AA:7:G:O4'	1:AA:298:A:C8	1.90	1.21
18:B3:1383:U:O2'	43:BW:29:PRO:HA	1.41	1.21
18:B3:1131:G:H5''	19:B4:91:C:O2	1.40	1.21
18:B3:2460:A:C5'	46:BZ:61:ALA:HA	1.69	1.21
1:AA:111:G:O2'	1:AA:389:A:O2'	1.54	1.21

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2060:A:H4'	42:B0:25:TYR:CD1	1.74	1.20
18:B3:2388:C:P	36:BQ:88:ARG:HE	1.64	1.20
19:B4:35:C:N4	24:BE:95:TRP:CZ2	2.09	1.20
18:B3:1352:A:H4'	23:BD:102:THR:CG2	1.57	1.20
18:B3:664:U:H5'	23:BD:114:HIS:CB	1.70	1.20
21:BB:27:LYS:HD2	21:BB:122:ARG:HB2	1.22	1.20
18:B3:2442:G:H5'	41:BV:60:PHE:CE2	1.75	1.20
18:B3:1761:U:C1'	35:BP:80:ARG:NH2	1.87	1.20
18:B3:2345:A:C3'	29:BJ:48:LYS:HD3	1.70	1.20
18:B3:1446:U:OP1	39:BT:70:THR:CB	1.88	1.20
5:AD:91:LYS:CA	6:AE:173:ARG:O	1.89	1.20
18:B3:2711:U:H1'	37:BR:41:GLY:O	1.27	1.20
1:AA:121:C:C6	1:AA:235:C:C5	2.29	1.20
1:AA:124:G:OP1	1:AA:289:G:N2	1.70	1.20
1:AA:956:U:C1'	17:AS:126:VAL:HB	1.71	1.20
13:AM:91:ASP:HA	13:AM:109:LEU:O	1.21	1.20
1:AA:1177:G:H4'	9:AI:105:LYS:CD	1.70	1.20
18:B3:2050:G:H4'	33:BN:84:ALA:CB	1.54	1.20
18:B3:501:G:O4'	33:BN:16:ALA:HB2	1.32	1.20
18:B3:1309:U:C6	23:BD:204:PRO:HD3	1.70	1.20
18:B3:449:A:C5'	18:B3:1306:U:C1'	2.19	1.20
18:B3:1163:G:C4	30:BK:51:LYS:CG	2.23	1.20
18:B3:1164:U:C4	30:BK:51:LYS:HG2	1.59	1.20
18:B3:2678:A:O2'	22:BC:13:LEU:HB2	1.34	1.20
18:B3:2167:A:N6	20:BA:60:ARG:HH21	1.38	1.20
18:B3:1676:G:C5'	39:BT:115:PRO:CG	2.17	1.20
1:AA:560:U:C1'	1:AA:563:A:C5'	2.19	1.20
1:AA:7:G:C6	6:AE:198:GLN:OE1	1.89	1.20
1:AA:65:U:OP1	1:AA:96:G:H3'	1.40	1.20
18:B3:1837:G:O6	45:BY:2:LYS:CB	1.87	1.20
19:B4:30:C:N3	24:BE:57:ASN:CG	1.95	1.20
18:B3:2913:A:N3	22:BC:124:SER:OG	1.74	1.20
22:BC:71:VAL:O	37:BR:87:ARG:NH1	1.73	1.20
18:B3:1812:G:N2	18:B3:2732:U:H5''	1.54	1.20
18:B3:2345:A:C5'	29:BJ:48:LYS:HD3	1.63	1.20
18:B3:2215:A:H5'	20:BA:107:TYR:CD1	1.77	1.20
10:AJ:78:THR:OG1	14:AN:39:ARG:NH2	1.74	1.20
1:AA:59:A:H4'	1:AA:388:G:N9	1.57	1.20
18:B3:905:C:C2	18:B3:1330:A:C8	2.30	1.20
18:B3:906:C:H1'	18:B3:1329:A:C8	1.75	1.20
2:AT:501:LEU:CD1	12:AL:99:ASN:ND2	2.04	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:145:A:C5'	31:BL:137:GLN:HE21	1.53	1.20
18:B3:243:A:OP1	31:BL:2:ALA:HB2	1.38	1.20
1:AA:989:C:H4'	1:AA:1013:G:N3	1.56	1.20
18:B3:618:G:O4'	42:B0:46:PHE:O	1.56	1.20
18:B3:457:U:OP1	18:B3:1352:A:N3	1.71	1.20
18:B3:2846:C:O3'	22:BC:174:LYS:HE3	1.37	1.20
18:B3:1807:U:H5'	18:B3:2884:G:N3	1.55	1.20
18:B3:2350:G:N2	29:BJ:116:ASP:CB	2.05	1.20
18:B3:2345:A:C4'	29:BJ:48:LYS:CD	2.12	1.20
6:AE:153:LEU:HD21	8:AH:98:PHE:N	1.55	1.20
1:AA:1341:U:O2'	9:AI:140:SER:HA	1.39	1.20
1:AA:1321:C:N3	17:AS:81:ARG:CB	2.04	1.20
1:AA:1300:G:C3'	13:AM:30:TYR:HD1	1.42	1.20
18:B3:1689:A:N3	33:BN:128:THR:HG21	1.44	1.20
18:B3:2061:C:C5'	42:B0:24:ARG:CD	2.15	1.20
18:B3:1010:C:H4'	24:BE:15:ARG:CG	1.71	1.20
18:B3:2661:U:C4	18:B3:2812:A:N6	2.10	1.20
18:B3:2050:G:C4'	33:BN:84:ALA:HB2	1.66	1.20
21:BB:79:GLU:O	47:B9:64:ALA:C	1.79	1.20
18:B3:2136:G:N3	18:B3:2238:A:N1	1.90	1.20
18:B3:251:C:C2'	31:BL:139:LYS:HE2	1.72	1.20
18:B3:2738:G:C8	35:BP:59:LYS:NZ	2.08	1.20
18:B3:921:G:C3'	41:BV:41:ARG:CG	1.99	1.20
5:AD:92:LYS:N	6:AE:174:GLY:CA	2.05	1.20
1:AA:59:A:H5''	1:AA:388:G:N7	1.57	1.20
18:B3:2663:U:O2	18:B3:2816:A:C4	1.94	1.20
1:AA:1220:G:O2'	17:AS:95:GLY:O	1.59	1.19
1:AA:1302:U:C4'	13:AM:54:LEU:HD21	1.69	1.19
18:B3:706:G:N1	34:BO:72:LYS:NZ	1.78	1.19
18:B3:1335:C:P	42:B0:100:ILE:HG23	1.81	1.19
18:B3:1133:A:O2'	18:B3:2520:G:C1'	1.87	1.19
18:B3:2763:G:H3'	37:BR:14:SER:OG	1.07	1.19
20:BA:64:SER:O	20:BA:161:LYS:NZ	1.75	1.19
18:B3:1675:C:O5'	39:BT:113:VAL:CA	1.88	1.19
2:AT:111:PHE:CE2	2:AT:483:PHE:CD2	1.93	1.19
18:B3:100:C:C1'	40:BU:24:SER:HG	1.52	1.19
18:B3:220:C:O2	41:BV:54:LYS:NZ	1.74	1.19
27:BH:41:ILE:O	32:BM:126:LEU:HB3	1.39	1.19
1:AA:779:C:C5'	11:AK:132:ARG:HB3	1.71	1.19
2:AT:757:GLU:CB	18:B3:1171:A:O2'	1.88	1.19
1:AA:1309:G:O2'	13:AM:112:ASP:OD2	1.60	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:49:G:P	24:BE:158:ARG:HG2	1.83	1.19
18:B3:672:G:C1'	23:BD:214:ILE:HG21	1.71	1.19
18:B3:675:U:O2'	23:BD:235:LEU:HD23	1.41	1.19
18:B3:1183:C:O2'	30:BK:85:LEU:HA	1.37	1.19
1:AA:131:C:C4'	1:AA:264:U:C4'	2.15	1.19
1:AA:1240:U:C2	7:AG:189:ILE:HD12	1.51	1.19
18:B3:2345:A:H4'	29:BJ:48:LYS:CE	1.72	1.19
20:BA:55:LEU:CD2	20:BA:167:VAL:CG2	2.19	1.19
1:AA:1070:U:O3'	6:AE:90:ARG:HB2	1.08	1.19
18:B3:1718:G:OP1	35:BP:20:LYS:NZ	1.76	1.19
18:B3:2382:A:C8	46:BZ:10:TYR:CE2	2.30	1.19
18:B3:157:G:O2'	31:BL:95:ARG:NH2	1.74	1.19
1:AA:989:C:H4'	1:AA:1013:G:C2	1.78	1.19
18:B3:844:A:H5'	33:BN:133:GLY:CA	1.45	1.19
1:AA:1179:A:OP2	9:AI:116:LEU:HB3	1.42	1.19
1:AA:319:G:H1'	1:AA:1434:A:N1	1.57	1.19
18:B3:1348:A:C4'	23:BD:241:ALA:HB2	1.73	1.19
18:B3:1163:G:N7	30:BK:51:LYS:CD	2.03	1.19
18:B3:1855:G:O6	21:BB:149:LEU:HB3	1.42	1.19
18:B3:1206:C:C6	18:B3:1207:A:N7	2.10	1.19
18:B3:2657:G:OP1	22:BC:19:LYS:HB3	1.40	1.19
22:BC:55:ILE:HB	22:BC:74:ALA:HB2	1.20	1.19
20:BA:43:PRO:HG3	20:BA:132:GLY:HA3	1.24	1.19
1:AA:400:C:O3'	5:AD:77:ILE:HD13	1.41	1.19
1:AA:552:U:H5''	12:AL:106:GLY:C	1.33	1.19
1:AA:66:G:H4'	1:AA:173:U:C1'	1.59	1.19
2:AT:464:LEU:HD22	2:AT:510:ARG:CG	1.72	1.19
1:AA:754:C:O4'	15:AO:127:TYR:CD1	1.96	1.19
18:B3:2040:C:H5'	18:B3:2759:C:O2'	1.04	1.19
1:AA:1219:U:O2	17:AS:77:ARG:O	1.61	1.19
1:AA:335:C:C2'	1:AA:1433:A:H2'	1.73	1.19
18:B3:2827:A:OP2	22:BC:122:TYR:CA	1.90	1.19
18:B3:2845:G:C4'	22:BC:24:ILE:CG2	2.21	1.19
18:B3:2244:A:C4'	31:BL:27:TRP:CZ3	2.24	1.19
18:B3:2351:C:N3	29:BJ:115:TYR:CA	2.01	1.19
1:AA:25:C:O3'	12:AL:109:ARG:HD2	1.41	1.19
1:AA:62:U:O2'	1:AA:385:C:O2	1.55	1.19
1:AA:64:G:N3	1:AA:97:G:O6	1.75	1.19
18:B3:2797:C:OP1	27:BH:127:PRO:HG3	1.39	1.19
18:B3:2795:C:O2'	27:BH:156:GLN:HG2	1.40	1.19
18:B3:215:A:C5'	41:BV:58:ARG:CD	1.92	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1383:U:O2'	43:BW:32:VAL:CG1	1.89	1.19
18:B3:1232:A:C8	18:B3:2525:G:H5'	1.77	1.19
18:B3:2459:G:OP1	46:BZ:86:ARG:NE	1.74	1.19
1:AA:1495:U:N3	1:AA:1517:G:N2	1.91	1.19
1:AA:1503:A:OP1	1:AA:1531:A:C4	1.94	1.19
18:B3:2388:C:P	36:BQ:88:ARG:CB	2.27	1.18
18:B3:670:G:H22	23:BD:231:SER:CB	1.52	1.18
18:B3:1855:G:O6	21:BB:150:PRO:CD	1.91	1.18
18:B3:1874:U:O5'	21:BB:127:ARG:HG3	1.03	1.18
18:B3:1853:C:O4'	21:BB:237:ILE:HD13	1.37	1.18
18:B3:1805:G:N2	18:B3:2882:G:O2'	1.76	1.18
18:B3:924:G:C6	41:BV:41:ARG:CB	2.26	1.18
1:AA:59:A:C5'	1:AA:388:G:C8	2.24	1.18
18:B3:20:G:O2'	33:BN:5:ALA:HA	1.01	1.18
1:AA:121:C:C1'	1:AA:235:C:H41	1.54	1.18
1:AA:754:C:O4'	15:AO:127:TYR:CE1	1.95	1.18
1:AA:1298:C:H5''	13:AM:57:ARG:NH2	1.59	1.18
1:AA:1320:C:N4	17:AS:116:LEU:CB	1.96	1.18
1:AA:1321:C:C2'	17:AS:81:ARG:HH21	1.57	1.18
18:B3:882:A:H5'	45:BY:1:GLY:O	1.36	1.18
18:B3:539:G:C4	42:B0:50:ILE:HD13	1.76	1.18
19:B4:30:C:C2	24:BE:57:ASN:CG	2.16	1.18
19:B4:47:A:O3'	24:BE:160:PHE:CE2	1.96	1.18
18:B3:1349:G:OP1	23:BD:36:THR:O	1.58	1.18
19:B4:86:G:P	25:BF:218:LYS:HG3	1.81	1.18
19:B4:85:A:O2'	25:BF:219:PHE:O	1.60	1.18
18:B3:2489:G:H2'	18:B3:2490:A:N7	1.56	1.18
18:B3:2655:U:O2'	22:BC:265:ARG:HB3	1.40	1.18
18:B3:2133:U:C4'	18:B3:2134:G:C5'	1.94	1.18
1:AA:560:U:C1'	1:AA:563:A:H5'	1.71	1.18
1:AA:363:A:OP1	12:AL:76:LEU:CA	1.91	1.18
6:AE:102:VAL:HG21	6:AE:189:LEU:CB	1.72	1.18
18:B3:1154:A:C8	18:B3:1155:G:C2'	2.25	1.18
18:B3:2040:C:C5'	18:B3:2759:C:O2'	1.91	1.18
18:B3:2320:U:H2'	46:BZ:3:VAL:CG1	1.73	1.18
18:B3:620:A:OP1	42:B0:41:VAL:HG12	1.40	1.18
18:B3:677:C:O2'	23:BD:256:LYS:CG	1.91	1.18
18:B3:29:C:H4'	18:B3:1342:C:OP1	1.44	1.18
23:BD:168:LEU:HD13	23:BD:174:HIS:HB2	1.26	1.18
21:BB:115:VAL:HG23	21:BB:125:LEU:HD13	1.24	1.18
18:B3:1206:C:N1	18:B3:1207:A:C8	2.11	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2520:G:C5'	28:BI:160:PRO:CA	2.17	1.18
18:B3:1672:G:O3'	39:BT:91:LYS:HG3	1.40	1.18
6:AE:204:ARG:HD2	6:AE:207:GLU:HB2	1.23	1.18
18:B3:2061:C:C5'	42:B0:24:ARG:HD2	1.67	1.18
18:B3:1312:G:N1	23:BD:186:LEU:HD11	1.25	1.18
18:B3:782:G:O3'	21:BB:189:ARG:NH1	1.75	1.18
18:B3:815:U:O3'	18:B3:1598:A:H4'	1.40	1.18
18:B3:2806:C:C4'	22:BC:343:THR:OG1	1.90	1.18
18:B3:1806:G:H5'	18:B3:2874:G:O2'	1.02	1.18
18:B3:1708:C:C5	35:BP:81:LYS:CG	2.26	1.18
20:BA:43:PRO:HB2	20:BA:132:GLY:O	1.42	1.18
10:AJ:68:ARG:HB3	14:AN:39:ARG:CB	1.74	1.18
1:AA:449:C:O4'	5:AD:131:GLN:O	1.61	1.18
3:AB:141:PRO:HD3	8:AH:68:LEU:CD2	1.74	1.18
18:B3:1115:U:H1'	18:B3:1224:G:O2'	1.36	1.18
1:AA:779:C:O5'	11:AK:132:ARG:HB3	1.41	1.18
18:B3:215:A:C4'	41:BV:58:ARG:NE	1.93	1.18
35:BP:31:ILE:HG21	35:BP:49:ILE:HD11	1.19	1.18
35:BP:48:THR:HG23	35:BP:49:ILE:HG12	1.19	1.18
18:B3:698:A:OP1	41:BV:132:LEU:O	1.58	1.18
18:B3:697:G:O5'	41:BV:130:SER:OG	1.59	1.18
2:AT:757:GLU:HB3	18:B3:1171:A:O2'	1.03	1.18
2:AT:29:ASP:OD1	18:B3:2693:U:OP1	1.61	1.18
18:B3:1772:C:H5'	47:B9:15:VAL:CG1	1.72	1.18
1:AA:1320:C:O2	17:AS:119:PHE:CD1	1.97	1.18
1:AA:1227:A:OP1	17:AS:125:PRO:CB	1.90	1.18
1:AA:1321:C:C5'	17:AS:118:GLU:HA	1.73	1.18
1:AA:988:G:H2'	1:AA:1015:A:N7	0.85	1.18
1:AA:1148:U:C5'	9:AI:9:PHE:CE1	2.25	1.18
19:B4:11:A:H62	24:BE:16:PHE:N	1.05	1.18
19:B4:35:C:O2'	24:BE:185:PHE:N	1.75	1.18
19:B4:30:C:N3	24:BE:57:ASN:CB	2.07	1.18
1:AA:190(D):U:C4	16:AQ:112:PRO:HD2	1.77	1.18
18:B3:2671:U:O3'	22:BC:179:GLU:O	1.60	1.18
18:B3:2817:G:O5'	22:BC:96:ARG:NH2	1.74	1.18
18:B3:967:U:CI'	28:BI:34:TYR:CE2	2.25	1.18
18:B3:2845:G:C4'	22:BC:24:ILE:HG21	1.73	1.18
26:BG:149:LEU:HG	26:BG:210:LEU:HD21	1.18	1.18
18:B3:1508:C:H5"	39:BT:78:GLY:N	1.56	1.18
10:AJ:73:GLY:C	14:AN:25:SER:CB	2.11	1.18
18:B3:1943:C:H5"	21:BB:218:ILE:CD1	1.74	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:59:A:H5'	1:AA:388:G:C5	1.78	1.18
2:AT:108:HIS:HB2	2:AT:536:LEU:HG	1.21	1.18
2:AT:745:SER:HG	18:B3:2508:C:N4	1.36	1.18
1:AA:705:U:O2'	11:AK:23:ASN:ND2	1.75	1.18
13:AM:91:ASP:HA	13:AM:109:LEU:C	1.63	1.17
18:B3:2413:A:N3	24:BE:174:PRO:CB	2.06	1.17
18:B3:448:G:H2'	23:BD:195:ASN:ND2	1.41	1.17
18:B3:676:C:O2	23:BD:231:SER:CB	1.91	1.17
21:BB:47:ILE:HG13	47:B9:53:ILE:CG1	1.74	1.17
21:BB:47:ILE:HD11	47:B9:53:ILE:HD11	1.22	1.17
19:B4:99:U:H5'	25:BF:222:PHE:CE1	1.78	1.17
18:B3:401:C:C4'	31:BL:94:GLN:O	1.90	1.17
18:B3:1705:C:H5'	35:BP:62:THR:HG21	1.23	1.17
10:AJ:71:PRO:CD	14:AN:36:ASN:CB	2.23	1.17
2:AT:140:GLU:C	2:AT:481:MET:N	1.97	1.17
1:AA:1075:C:C4'	3:AB:103:PRO:HD2	1.71	1.17
1:AA:519:C:OP2	12:AL:67:ALA:HA	1.41	1.17
1:AA:1219:U:H2'	17:AS:78:THR:HB	1.21	1.17
18:B3:1350:U:C6	23:BD:43:LYS:CD	2.27	1.17
18:B3:1350:U:OP1	23:BD:110:VAL:HG12	1.42	1.17
18:B3:1348:A:H5''	23:BD:35:HIS:HB2	1.26	1.17
31:BL:82:LYS:CE	46:BZ:49:PHE:HD1	1.42	1.17
18:B3:1206:C:C2	18:B3:1207:A:C8	2.32	1.17
18:B3:1815:A:N3	18:B3:2746:A:C4	1.81	1.17
18:B3:1447:U:C5	39:BT:70:THR:OG1	1.95	1.17
10:AJ:72:ASN:ND2	14:AN:28:GLY:N	1.92	1.17
1:AA:618:C:OP2	5:AD:141:VAL:HG22	1.45	1.17
1:AA:552:U:C5'	12:AL:106:GLY:C	2.12	1.17
2:AT:539:GLU:OE2	18:B3:2699:A:H4'	1.41	1.17
1:AA:121:C:C1'	1:AA:235:C:N4	2.06	1.17
18:B3:2320:U:H2'	46:BZ:3:VAL:HG12	1.21	1.17
1:AA:1014:A:P	17:AS:72:LYS:NZ	2.14	1.17
18:B3:501:G:H5'	33:BN:16:ALA:HA	1.21	1.17
18:B3:1371:U:C5'	33:BN:66:ILE:HD12	1.68	1.17
18:B3:677:C:O2'	23:BD:256:LYS:HG3	1.44	1.17
18:B3:2712:G:C5'	37:BR:42:SER:HB3	1.59	1.17
18:B3:1787:C:C2	18:B3:2883:A:O4'	1.93	1.17
10:AJ:71:PRO:HD3	14:AN:42:PHE:HB2	1.21	1.17
1:AA:599:C:C4'	8:AH:121:SER:HB2	1.73	1.17
18:B3:164:G:C3'	41:BV:31:ARG:HG3	1.73	1.17
18:B3:2779:G:O2'	27:BH:163:GLN:HB3	1.38	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:79:G:C4'	40:BU:27:ARG:NH1	2.07	1.17
1:AA:20:U:C4'	1:AA:573:A:N1	2.03	1.17
1:AA:321:A:C5'	1:AA:1437:C:C5'	2.18	1.17
1:AA:1316:G:C2	17:AS:49:MET:CE	2.27	1.17
1:AA:1301:U:C5'	13:AM:30:TYR:N	2.08	1.17
1:AA:1250:A:H4'	9:AI:71:GLY:CA	1.63	1.17
18:B3:2401:A:H1'	36:BQ:7:TYR:OH	1.45	1.17
18:B3:2413:A:OP1	24:BE:176:SER:HB3	1.02	1.17
18:B3:1359:U:OP1	23:BD:92:MET:CE	1.92	1.17
18:B3:2441:U:O3'	41:BV:61:HIS:HE1	1.24	1.17
25:BF:167:ILE:HG22	25:BF:168:ILE:HD12	1.24	1.17
1:AA:190(E):U:C2	16:AQ:131:SER:CB	2.27	1.17
18:B3:2826:G:H2'	22:BC:124:SER:N	1.55	1.17
18:B3:2838:A:OP1	22:BC:221:LYS:HB3	1.41	1.17
22:BC:304:ILE:HG12	22:BC:358:ILE:HG12	1.22	1.17
10:AJ:69:LYS:CE	14:AN:39:ARG:HH22	1.56	1.17
1:AA:677:U:C5	11:AK:121:PRO:CB	2.17	1.17
18:B3:2552:C:C4'	18:B3:2553:A:C2	2.13	1.17
1:AA:1343:G:O2'	9:AI:136:ARG:O	1.59	1.17
1:AA:1343:G:C4'	9:AI:137:PHE:C	2.12	1.17
2:AT:501:LEU:HD12	12:AL:99:ASN:CG	1.63	1.17
1:AA:545:C:H4'	5:AD:66:ASP:CG	1.42	1.17
18:B3:2396:C:O2'	41:BV:46:LYS:HE2	1.43	1.17
18:B3:1370:G:N9	33:BN:62:PHE:HE1	1.14	1.17
18:B3:1869:A:C2'	21:BB:192:ARG:NH2	2.06	1.17
18:B3:1872:C:C4	21:BB:22:ARG:CG	2.25	1.17
18:B3:1847:A:O2'	21:BB:179:LEU:HA	1.42	1.17
18:B3:948:G:C2	36:BQ:100:LYS:HD2	1.79	1.17
18:B3:106:A:O2'	44:BX:57:VAL:HA	1.43	1.17
18:B3:1815:A:N7	18:B3:2733:U:C2	2.13	1.17
18:B3:2335:C:C6	29:BJ:116:ASP:OD2	1.78	1.17
1:AA:1404:C:H2'	1:AA:1519:A:C4'	1.72	1.17
1:AA:988:G:H5'	1:AA:1014:A:OP1	1.42	1.16
1:AA:1298:C:N4	7:AG:184:ARG:NH1	1.94	1.16
18:B3:1694:G:C2	45:BY:5:PRO:HD2	1.75	1.16
18:B3:538:C:C5	42:B0:21:HIS:CE1	2.30	1.16
19:B4:48:C:H3'	24:BE:158:ARG:CB	1.43	1.16
21:BB:47:ILE:CG1	47:B9:53:ILE:CG1	2.23	1.16
21:BB:57:LEU:HD22	21:BB:76:ILE:HA	1.23	1.16
18:B3:1285:U:H5''	25:BF:155:ILE:HG21	1.19	1.16
18:B3:1206:C:O2'	18:B3:1207:A:C5'	1.92	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2671:U:C5'	22:BC:178:ALA:HA	1.70	1.16
18:B3:2737:C:C6	35:BP:61:ARG:HG2	1.80	1.16
1:AA:6:G:H1'	1:AA:298:A:O2'	1.20	1.16
18:B3:1243:C:C5'	32:BM:17:ARG:CZ	2.20	1.16
1:AA:580:U:C4'	15:AO:115:ILE:HG21	1.74	1.16
1:AA:1443:G:H5''	1:AA:1446:A:H5'	1.27	1.16
1:AA:1220:G:OP1	17:AS:80:MET:CE	1.94	1.16
18:B3:2413:A:O4'	24:BE:175:HIS:O	1.59	1.16
18:B3:2295:G:H5''	36:BQ:5:HIS:O	0.98	1.16
18:B3:450:C:H3'	18:B3:1304:U:O2'	1.42	1.16
18:B3:27:U:O2	18:B3:1318:A:N1	1.78	1.16
1:AA:190(D):U:O4	16:AQ:112:PRO:HD2	1.40	1.16
1:AA:130:A:OP2	16:AQ:136:PHE:C	1.84	1.16
18:B3:68:U:C2'	44:BX:55:LEU:CB	2.23	1.16
18:B3:68:U:P	39:BT:59:TYR:OH	2.02	1.16
22:BC:358:ILE:H	38:BS:15:PRO:CB	1.54	1.16
18:B3:2826:G:N3	22:BC:124:SER:CB	2.09	1.16
10:AJ:78:THR:CG2	14:AN:39:ARG:HB3	1.74	1.16
18:B3:1676:G:H3'	39:BT:115:PRO:HD3	1.25	1.16
18:B3:1745:G:P	37:BR:22:ILE:HB	1.85	1.16
18:B3:164:G:O3'	41:BV:31:ARG:HG2	1.45	1.16
1:AA:143:A:C8	1:AA:200:G:O2'	1.96	1.16
18:B3:100:C:C1'	40:BU:24:SER:OG	1.90	1.16
18:B3:2252:A:C8	21:BB:33:TYR:OH	1.97	1.16
1:AA:1299:A:O2'	13:AM:30:TYR:HB2	1.44	1.16
1:AA:1314:C:C4	17:AS:49:MET:HA	1.79	1.16
19:B4:37:C:O2	24:BE:154:THR:HG22	1.43	1.16
33:BN:39:GLU:HG2	33:BN:42:LYS:HB2	1.26	1.16
33:BN:43:ALA:HA	33:BN:46:TYR:HB2	1.27	1.16
18:B3:751:U:C5'	23:BD:36:THR:HG21	1.75	1.16
18:B3:1167:G:N3	30:BK:110:ILE:CB	2.01	1.16
18:B3:402:U:C5'	31:BL:69:ASN:ND2	2.07	1.16
18:B3:2347:C:O2	29:BJ:18:LEU:O	1.61	1.16
1:AA:66:G:C5'	1:AA:173:U:N3	2.06	1.16
27:BH:63:LYS:CE	32:BM:129:LYS:HB3	1.76	1.16
1:AA:877:C:C1'	8:AH:3:SER:OG	1.94	1.16
18:B3:78:G:O4'	40:BU:25:SER:OG	1.59	1.16
1:AA:1115:C:C5'	10:AJ:85:ARG:NH2	2.05	1.16
45:BY:36:CYS:HA	45:BY:44:ARG:HB2	1.20	1.16
1:AA:1362:C:N3	13:AM:137:HIS:CE1	1.89	1.16
1:AA:1309:G:C5	13:AM:92:ILE:HB	1.80	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:841:A:C8	33:BN:131:ALA:CB	1.98	1.16
18:B3:844:A:C5'	33:BN:133:GLY:CA	2.22	1.16
1:AA:1178:G:OP1	9:AI:105:LYS:HG2	1.41	1.16
18:B3:2328:U:H5''	24:BE:153:THR:OG1	1.45	1.16
1:AA:318:G:N2	1:AA:1434:A:N1	1.92	1.16
33:BN:67:GLY:HA2	33:BN:79:LYS:HB3	1.23	1.16
33:BN:91:GLN:HA	33:BN:94:LEU:HD12	1.25	1.16
18:B3:2050:G:C4'	33:BN:84:ALA:CB	2.11	1.16
18:B3:1348:A:H2'	23:BD:39:THR:CA	1.67	1.16
18:B3:1181:A:N3	30:BK:105:GLN:CB	2.08	1.16
21:BB:43:ILE:H	21:BB:61:VAL:HG12	1.07	1.16
18:B3:2846:C:O3'	22:BC:174:LYS:CE	1.94	1.16
18:B3:2652:U:H2'	22:BC:257:ALA:CB	1.68	1.16
18:B3:1812:G:N3	18:B3:2732:U:C5'	2.08	1.16
18:B3:924:G:C6	41:BV:41:ARG:CG	2.28	1.16
20:BA:205:VAL:HG11	20:BA:213:ALA:HB1	1.18	1.16
18:B3:164:G:C4'	41:BV:31:ARG:CG	2.16	1.16
18:B3:1225:C:C4'	18:B3:1248:A:H2	1.59	1.16
18:B3:1501:A:C5'	35:BP:37:ARG:HD3	1.75	1.16
1:AA:1344:C:P	9:AI:136:ARG:NE	2.19	1.16
1:AA:865:A:O2'	1:AA:1079:G:N2	1.79	1.16
18:B3:1153:C:O5'	18:B3:1155:G:H8	1.23	1.16
1:AA:1298:C:OP1	13:AM:55:HIS:O	1.64	1.16
1:AA:1300:G:C3'	13:AM:30:TYR:CE1	2.28	1.16
1:AA:1318:A:C8	17:AS:54:ALA:CB	2.27	1.16
1:AA:1296:C:H5''	13:AM:53:ASP:N	1.40	1.16
18:B3:2424:U:C5'	36:BQ:7:TYR:HD2	1.57	1.16
18:B3:2413:A:OP1	24:BE:176:SER:CB	1.94	1.16
1:AA:318:G:N2	1:AA:1434:A:C5	2.14	1.16
1:AA:320:C:H1'	1:AA:1435:G:H2'	1.22	1.16
18:B3:1164:U:C5	30:BK:51:LYS:CG	2.25	1.16
18:B3:1056:U:C4'	28:BI:8:CYS:CB	2.19	1.16
18:B3:921:G:OP1	41:BV:39:HIS:HB3	1.00	1.16
18:B3:2346:C:O4'	29:BJ:64:ILE:HG13	1.41	1.16
27:BH:34:LEU:HD21	27:BH:149:ASN:HB3	1.25	1.16
18:B3:2781:U:O4'	27:BH:155:SER:HB2	1.40	1.16
18:B3:81:G:O3'	40:BU:75:ARG:HG3	0.98	1.16
1:AA:21:G:C4'	1:AA:884:U:O3'	1.94	1.16
18:B3:1235:G:C6	32:BM:69:PRO:CD	2.29	1.16
3:AB:26:ARG:HB2	3:AB:44:VAL:HG12	1.26	1.16
18:B3:1811:A:N3	18:B3:2752:C:O2	1.79	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1125:U:H3	10:AJ:23:ARG:NE	1.45	1.15
18:B3:1010:C:H4'	24:BE:15:ARG:CD	1.73	1.15
1:AA:318:G:N2	1:AA:1434:A:C4	2.13	1.15
18:B3:1370:G:C6	33:BN:24:SER:HB3	1.80	1.15
18:B3:1370:G:C8	33:BN:27:ASN:CG	2.20	1.15
1:AA:190(E):U:O5'	16:AQ:109:HIS:CG	2.00	1.15
18:B3:2817:G:P	22:BC:96:ARG:NH2	2.17	1.15
18:B3:2671:U:H5''	22:BC:178:ALA:HB1	1.26	1.15
18:B3:2614:C:C1'	22:BC:240:LYS:HD3	1.61	1.15
18:B3:2136:G:N2	18:B3:2238:A:C2	2.14	1.15
18:B3:1566:C:H5''	35:BP:57:HIS:CE1	1.82	1.15
18:B3:2333:G:O2'	29:BJ:113:ILE:HG13	1.45	1.15
18:B3:124:C:C5	39:BT:88:LYS:CE	2.29	1.15
18:B3:2081:A:O2'	32:BM:69:PRO:HB3	1.44	1.15
18:B3:1689:A:C6	33:BN:128:THR:HG23	1.81	1.15
18:B3:2328:U:OP1	24:BE:153:THR:CG2	1.93	1.15
18:B3:35:U:H4'	23:BD:104:THR:OG1	1.45	1.15
18:B3:111:C:C2'	18:B3:119:A:H61	1.58	1.15
18:B3:1163:G:C5	30:BK:51:LYS:HG3	1.82	1.15
22:BC:71:VAL:HG12	37:BR:87:ARG:C	1.67	1.15
26:BG:152:ILE:HG12	26:BG:162:VAL:HG21	1.26	1.15
18:B3:1708:C:C6	35:BP:81:LYS:CG	2.29	1.15
18:B3:2215:A:H5'	20:BA:107:TYR:CG	1.80	1.15
18:B3:1675:C:H5''	39:BT:118:THR:O	1.41	1.15
12:AL:112:LYS:HE2	12:AL:121:ARG:HD3	1.16	1.15
18:B3:1119:G:C5'	32:BM:48:ARG:HE	1.58	1.15
1:AA:358:U:C5'	2:AT:390:ASP:OD1	1.93	1.15
18:B3:1153:C:OP1	18:B3:1155:G:OP2	1.62	1.15
18:B3:2397:G:N7	41:BV:46:LYS:NZ	1.92	1.15
1:AA:1219:U:H3'	17:AS:58:LYS:HG3	1.26	1.15
1:AA:1298:C:C5'	13:AM:57:ARG:NH2	2.10	1.15
1:AA:1321:C:C4	17:AS:81:ARG:CB	2.28	1.15
18:B3:1415:G:H5'	45:BY:13:LYS:HE2	1.22	1.15
18:B3:616:U:C3'	42:B0:47:ARG:HG2	1.77	1.15
1:AA:1152:A:O3'	10:AJ:31:VAL:HG21	1.46	1.15
19:B4:36:C:H2'	24:BE:156:GLY:N	1.59	1.15
19:B4:51:A:N1	24:BE:58:LYS:CG	1.85	1.15
19:B4:49:G:OP2	24:BE:158:ARG:CB	1.95	1.15
18:B3:2051:G:OP1	33:BN:86:SER:N	1.79	1.15
21:BB:17:SER:HB3	21:BB:192:ARG:HG3	1.15	1.15
25:BF:87:ARG:HA	25:BF:133:VAL:HG12	1.17	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:93:C:O4'	44:BX:42:PRO:CB	1.94	1.15
18:B3:1742:A:H4'	18:B3:2723:G:P	1.83	1.15
3:AB:141:PRO:N	8:AH:68:LEU:HD11	1.62	1.15
2:AT:138:GLN:HE21	18:B3:2698:G:C5'	1.53	1.15
27:BH:43:VAL:HG13	32:BM:126:LEU:HA	1.21	1.15
1:AA:21:G:C1'	1:AA:885:G:H5'	1.75	1.15
18:B3:145:A:H5'	31:BL:137:GLN:HE21	1.11	1.15
16:AQ:93:ILE:HD11	16:AQ:96:TYR:HB2	1.16	1.15
18:B3:1845:A:OP1	21:BB:199:ARG:NH1	1.77	1.15
11:AK:48:LYS:HA	11:AK:48:LYS:HE3	1.29	1.15
18:B3:540:A:OP1	42:B0:18:LYS:CB	1.94	1.15
1:AA:1179:A:OP1	9:AI:116:LEU:HG	1.43	1.15
24:BE:110:LEU:HA	24:BE:115:LEU:HG	1.28	1.15
18:B3:1875:A:C2'	21:BB:150:PRO:CB	2.18	1.15
18:B3:1862:C:C5'	21:BB:7:GLN:OE1	1.93	1.15
18:B3:953:G:C3'	36:BQ:13:TYR:CZ	2.30	1.15
18:B3:68:U:C4'	44:BX:55:LEU:HB2	1.75	1.15
18:B3:2737:C:C6	35:BP:61:ARG:N	2.15	1.15
18:B3:2347:C:C1'	29:BJ:66:VAL:HG12	1.76	1.15
18:B3:2560:C:H1'	18:B3:2776:A:C2	1.81	1.15
18:B3:1226:G:H5''	18:B3:1244:U:O2	1.46	1.15
1:AA:21:G:H1'	1:AA:885:G:O4'	1.46	1.15
1:AA:118:U:O2	1:AA:123:C:H1'	1.43	1.15
1:AA:579:G:O2'	15:AO:112:PHE:CE1	1.81	1.15
18:B3:194:A:O3'	31:BL:178:LYS:CB	1.93	1.15
18:B3:539:G:C5	42:B0:50:ILE:CD1	2.30	1.15
18:B3:2388:C:P	36:BQ:88:ARG:NE	2.17	1.15
33:BN:60:ARG:HD2	33:BN:61:ARG:HG3	1.28	1.15
18:B3:750:A:H1'	23:BD:116:GLU:CG	1.76	1.15
18:B3:53:C:C1'	18:B3:122:C:OP2	1.89	1.15
19:B4:85:A:C4'	25:BF:228:PHE:HZ	1.57	1.15
18:B3:2820:A:OP2	22:BC:101:LEU:C	1.85	1.15
26:BG:203:ARG:HD3	26:BG:210:LEU:HD12	1.21	1.15
18:B3:1794:G:H5''	35:BP:97:ARG:HG3	1.15	1.15
18:B3:1806:G:O3'	18:B3:2884:G:N2	1.80	1.15
18:B3:1807:U:H5'	18:B3:2884:G:C2	1.81	1.15
18:B3:919:U:C2'	41:BV:39:HIS:O	1.95	1.15
1:AA:618:C:H3'	5:AD:142:ASN:OD1	1.34	1.15
1:AA:99:C:H4'	1:AA:101:A:N7	1.62	1.15
1:AA:66:G:N1	1:AA:69:G:C6	2.14	1.15
18:B3:215:A:H4'	41:BV:58:ARG:NE	1.53	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:634:C:H3'	16:AQ:92:TYR:CE2	1.81	1.15
1:AA:1405:G:C4	1:AA:1519:A:O4'	1.98	1.15
1:AA:1501:C:OP1	1:AA:1508:G:C8	2.00	1.15
18:B3:2676:C:H5'	32:BM:73:ARG:CZ	1.75	1.15
1:AA:994:A:C5	1:AA:1046:A:N3	2.14	1.15
18:B3:493:U:H4'	33:BN:99:ALA:CB	1.77	1.14
18:B3:2048:C:H5'	33:BN:68:ARG:HD2	1.20	1.14
1:AA:190(D):U:O4	16:AQ:112:PRO:CD	1.95	1.14
18:B3:2346:C:H1'	29:BJ:66:VAL:N	1.18	1.14
18:B3:2165:G:O2'	20:BA:33:GLU:HB2	1.37	1.14
1:AA:12:U:C4'	1:AA:526:C:H4'	1.68	1.14
27:BH:41:ILE:CG2	32:BM:128:LEU:CD1	2.23	1.14
18:B3:1381:A:N7	43:BW:25:LYS:HD3	1.62	1.14
18:B3:918:G:O2'	41:BV:44:MET:SD	2.05	1.14
1:AA:1318:A:N1	17:AS:56:PHE:CE1	2.14	1.14
19:B4:118:C:O3'	24:BE:68:THR:HG21	1.41	1.14
18:B3:1343:C:OP1	23:BD:192:LYS:HD3	0.98	1.14
18:B3:672:G:O4'	23:BD:214:ILE:HG21	1.00	1.14
18:B3:1306:U:H5'	23:BD:195:ASN:CG	1.65	1.14
21:BB:179:LEU:CD2	47:B9:21:LEU:CD1	1.95	1.14
18:B3:1876:C:C2'	21:BB:131:ASN:HD21	1.58	1.14
19:B4:85:A:C5'	25:BF:131:PRO:HB3	1.74	1.14
1:AA:190(E):U:O2	16:AQ:131:SER:CB	1.93	1.14
18:B3:68:U:H4'	44:BX:51:ILE:HD13	1.18	1.14
18:B3:72:C:C5'	44:BX:49:LYS:NZ	2.02	1.14
18:B3:2826:G:C4	22:BC:124:SER:HB3	1.81	1.14
18:B3:2848:G:OP2	22:BC:173:LYS:CD	1.96	1.14
18:B3:2165:G:O2'	20:BA:207:LYS:HE3	1.47	1.14
1:AA:1087:G:OP1	1:AA:1389:C:H1'	1.44	1.14
35:BP:31:ILE:HG22	35:BP:43:LEU:HD12	1.24	1.14
18:B3:2552:C:H4'	18:B3:2553:A:N3	0.83	1.14
19:B4:119:C:C1'	24:BE:71:GLY:C	2.16	1.14
18:B3:659:A:OP2	34:BO:107:THR:HB	1.48	1.14
18:B3:1163:G:C5'	30:BK:54:LYS:HB2	1.76	1.14
18:B3:92:G:C8	44:BX:41:LEU:HB2	1.59	1.14
18:B3:2898:G:C5'	22:BC:312:HIS:O	1.96	1.14
22:BC:85:VAL:HB	22:BC:159:VAL:HG21	1.28	1.14
31:BL:173:ILE:HD13	31:BL:188:LYS:HD3	1.23	1.14
18:B3:2136:G:N2	18:B3:2238:A:C5	2.15	1.14
18:B3:1815:A:OP1	18:B3:2751:C:H1'	1.46	1.14
18:B3:1814:G:C2'	18:B3:2733:U:C5	2.30	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:105:LEU:HD21	35:BP:137:LEU:HD11	1.27	1.14
1:AA:400:C:H5''	5:AD:77:ILE:CD1	1.78	1.14
1:AA:64:G:C4	1:AA:97:G:C6	2.34	1.14
18:B3:1745:G:OP1	37:BR:22:ILE:CB	1.96	1.14
18:B3:2560:C:C1'	18:B3:2776:A:C2	2.31	1.14
27:BH:41:ILE:CG2	32:BM:128:LEU:HD13	1.78	1.14
18:B3:2081:A:O2'	32:BM:69:PRO:HG3	1.22	1.14
1:AA:1503:A:OP1	1:AA:1531:A:N9	1.79	1.14
1:AA:1318:A:H3'	17:AS:54:ALA:HB3	1.18	1.14
1:AA:956:U:C1'	17:AS:126:VAL:CB	2.23	1.14
1:AA:1300:G:O3'	13:AM:30:TYR:HD1	1.09	1.14
1:AA:958:A:C5	17:AS:101:ALA:HB1	1.81	1.14
1:AA:1318:A:O2'	17:AS:84:ILE:N	1.81	1.14
19:B4:47:A:OP2	24:BE:151:GLN:HG2	1.47	1.14
18:B3:1163:G:C8	30:BK:51:LYS:HB2	1.83	1.14
18:B3:92:G:N3	44:BX:42:PRO:HG2	1.48	1.14
18:B3:2668:G:H4'	22:BC:128:ALA:CB	1.76	1.14
18:B3:2671:U:OP1	22:BC:178:ALA:HB2	0.98	1.14
20:BA:56:PRO:N	20:BA:155:ILE:CG2	2.03	1.14
5:AD:86:LEU:HG	5:AD:97:LEU:HA	1.20	1.14
18:B3:1120:U:N3	18:B3:1226:G:OP2	1.81	1.14
1:AA:633:G:H4'	16:AQ:94:PRO:O	1.45	1.14
1:AA:1406:U:N1	1:AA:1518:A:C4'	2.09	1.14
20:BA:131:ALA:HB1	20:BA:133:LYS:HD3	1.27	1.14
18:B3:2050:G:O2'	33:BN:84:ALA:HB3	0.96	1.14
18:B3:1306:U:C6	23:BD:194:ARG:NH2	2.15	1.14
18:B3:1305:C:O4'	23:BD:194:ARG:CB	1.96	1.14
18:B3:488:U:OP1	40:BU:90:VAL:CG2	1.96	1.14
18:B3:68:U:H4'	44:BX:51:ILE:CD1	1.76	1.14
18:B3:1134:G:H5'	18:B3:1229:C:C4'	1.78	1.14
18:B3:2717:C:H5'	22:BC:327:ILE:O	1.47	1.14
37:BR:95:PHE:CB	38:BS:22:VAL:HG12	1.52	1.14
18:B3:2283:G:O6	28:BI:105:CYS:CB	1.96	1.14
18:B3:2819:C:N3	22:BC:100:SER:HB3	1.60	1.14
20:BA:43:PRO:CG	20:BA:132:GLY:C	2.03	1.14
18:B3:1446:U:OP1	39:BT:70:THR:CA	1.96	1.14
18:B3:124:C:C5	39:BT:88:LYS:HE3	1.83	1.14
18:B3:1674:C:H5''	39:BT:84:GLN:NE2	1.62	1.14
1:AA:619:U:C6	5:AD:142:ASN:HB2	1.82	1.14
1:AA:67:C:N4	1:AA:70:G:C6	2.15	1.14
18:B3:1120:U:O4	18:B3:1226:G:OP1	1.63	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:779:C:H5'	11:AK:132:ARG:CB	1.78	1.14
18:B3:2853:U:C5'	22:BC:170:LEU:HD21	1.77	1.14
18:B3:81:G:C3'	40:BU:74:TYR:O	1.94	1.14
1:AA:17:U:O4	1:AA:916:G:C6	2.00	1.14
18:B3:907:A:C8	18:B3:1328:A:C1'	2.05	1.14
41:BV:134:GLU:HB3	41:BV:138:ARG:HD3	1.29	1.14
1:AA:1484:C:P	18:B3:2001:G:N2	2.21	1.14
18:B3:375:G:N2	18:B3:411:A:OP1	1.80	1.14
1:AA:989:C:H5'	1:AA:1013:G:N3	1.61	1.13
18:B3:616:U:H2'	42:B0:47:ARG:HG3	1.18	1.13
19:B4:49:G:H8	24:BE:158:ARG:CD	1.42	1.13
1:AA:318:G:O2'	1:AA:1468:A:H5'	1.48	1.13
18:B3:449:A:OP2	18:B3:1306:U:H1'	1.45	1.13
18:B3:764:C:OP1	23:BD:98:MET:HG2	1.48	1.13
18:B3:944:G:O4'	25:BF:100:LYS:CE	1.95	1.13
1:AA:129:U:O3'	16:AQ:127:CYS:C	1.84	1.13
18:B3:2838:A:OP1	22:BC:221:LYS:CB	1.96	1.13
18:B3:2764:C:H5''	37:BR:85:TRP:O	0.96	1.13
18:B3:2308:U:O2'	28:BI:115:MET:HB3	1.48	1.13
18:B3:401:C:H4'	31:BL:94:GLN:O	1.37	1.13
18:B3:1805:G:C5'	18:B3:2875:A:O2'	1.96	1.13
18:B3:902:G:C8	41:BV:21:ILE:CD1	2.27	1.13
18:B3:1118:A:H4'	18:B3:1228:C:H41	1.12	1.13
27:BH:40:HIS:O	32:BM:126:LEU:CA	1.97	1.13
18:B3:2853:U:H5''	22:BC:170:LEU:HD21	1.30	1.13
1:AA:499:A:C2	1:AA:546:G:H2'	1.82	1.13
1:AA:1329:A:C6	13:AM:95:GLY:N	2.14	1.13
19:B4:69:U:H4'	24:BE:14:SER:HB2	1.22	1.13
19:B4:37:C:O2	24:BE:154:THR:CG2	1.97	1.13
18:B3:1371:U:H5'	33:BN:66:ILE:HD11	1.27	1.13
18:B3:672:G:H8	23:BD:214:ILE:CG2	1.51	1.13
42:B0:85:LEU:HB2	42:B0:92:TYR:HB2	1.14	1.13
18:B3:894:A:N3	23:BD:98:MET:CB	2.06	1.13
44:BX:31:LEU:HD21	44:BX:40:SER:HB2	1.29	1.13
28:BI:18:PRO:HD3	28:BI:95:HIS:HA	1.25	1.13
18:B3:2819:C:C5'	22:BC:99:ARG:O	1.95	1.13
18:B3:2312:G:C5'	28:BI:22:TYR:HE1	1.36	1.13
31:BL:42:THR:HG23	31:BL:43:ARG:HD3	1.19	1.13
18:B3:921:G:O3'	41:BV:41:ARG:HG2	1.35	1.13
1:AA:402:G:H4'	1:AA:620:C:C2'	1.77	1.13
1:AA:523:A:H2	12:AL:115:GLY:CA	1.60	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:C5'	9:AI:134:ARG:HG3	1.77	1.13
18:B3:2557:U:O2'	18:B3:2684:A:OP1	1.64	1.13
40:BU:58:VAL:HG21	40:BU:63:LYS:HG2	1.13	1.13
1:AA:499:A:H2	1:AA:546:G:H2'	1.05	1.13
19:B4:76:G:H3'	19:B4:77:A:H5''	1.29	1.13
18:B3:521:A:OP1	42:B0:26:HIS:NE2	1.78	1.13
1:AA:1118:C:C5'	9:AI:118:ALA:HB3	1.78	1.13
18:B3:2387:U:O2'	36:BQ:88:ARG:HB2	1.46	1.13
18:B3:1371:U:H5''	33:BN:66:ILE:HD12	1.24	1.13
18:B3:170:U:C6	46:BZ:49:PHE:CZ	2.36	1.13
18:B3:1167:G:OP1	30:BK:45:ASP:CA	1.96	1.13
21:BB:177:PRO:CD	47:B9:25:VAL:CG2	2.19	1.13
1:AA:190(E):U:N3	16:AQ:131:SER:HB3	1.60	1.13
18:B3:107:U:H1'	44:BX:56:THR:CA	1.77	1.13
18:B3:2614:C:C1'	22:BC:240:LYS:CD	2.04	1.13
18:B3:2826:G:O2'	22:BC:124:SER:N	1.78	1.13
31:BL:5:TYR:HA	31:BL:8:GLU:HB3	1.13	1.13
18:B3:1805:G:C5'	18:B3:2875:A:H4'	1.72	1.13
10:AJ:78:THR:OG1	14:AN:39:ARG:NE	1.81	1.13
1:AA:31:G:OP2	1:AA:306:G:N3	1.81	1.13
41:BV:20:ARG:HB3	41:BV:23:LYS:HB3	1.22	1.13
1:AA:21:G:H5''	1:AA:884:U:H1'	1.20	1.13
2:AT:501:LEU:HD12	12:AL:99:ASN:ND2	1.59	1.13
18:B3:1882:C:OP2	21:BB:199:ARG:CB	1.97	1.13
1:AA:598:U:O2'	8:AH:88:TRP:CE3	2.01	1.13
1:AA:1297:C:H3'	13:AM:56:LYS:CA	1.63	1.13
18:B3:777:U:O2'	45:BY:10:ARG:HG2	0.95	1.13
18:B3:882:A:O4'	45:BY:2:LYS:HG2	1.47	1.13
18:B3:618:G:C2'	42:B0:41:VAL:HG23	1.77	1.13
19:B4:50:G:C3'	24:BE:93:THR:H	1.60	1.13
24:BE:16:PHE:CD1	36:BQ:19:PHE:CZ	2.37	1.13
33:BN:117:GLN:HG3	33:BN:145:ILE:HB	1.30	1.13
18:B3:1310:U:O4	23:BD:201:ARG:HB3	1.48	1.13
18:B3:553:G:OP2	42:B0:71:HIS:CD2	2.02	1.13
18:B3:1348:A:O2'	23:BD:39:THR:N	1.82	1.13
18:B3:763:C:O2	23:BD:86:GLN:CG	1.96	1.13
18:B3:1167:G:O2'	30:BK:110:ILE:C	1.87	1.13
18:B3:2037:C:C3'	37:BR:47:ASN:HD21	1.56	1.13
18:B3:1794:G:H4'	35:BP:96:ARG:HG3	1.15	1.13
18:B3:2338:G:H5''	29:BJ:125:ASP:HA	1.23	1.13
18:B3:1745:G:H5''	37:BR:22:ILE:CD1	1.68	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1116:U:H2'	18:B3:1226:G:C8	1.83	1.13
18:B3:2704:C:N3	27:BH:121:LYS:CD	2.12	1.13
1:AA:1115:C:H5''	10:AJ:85:ARG:NH2	1.42	1.13
24:BE:190:ILE:HG12	24:BE:192:PRO:HD2	1.30	1.13
1:AA:988:G:C4	1:AA:1015:A:C4	2.37	1.12
18:B3:1415:G:H5''	45:BY:13:LYS:HE2	1.24	1.13
18:B3:246:G:O3'	26:BG:133:TYR:OH	1.64	1.13
19:B4:30:C:N3	24:BE:57:ASN:OD1	1.81	1.12
18:B3:1316:G:H5''	42:B0:101:SER:CB	1.79	1.12
18:B3:679:G:P	23:BD:258:ASP:CG	2.28	1.12
18:B3:1181:A:O2'	30:BK:104:ILE:HG23	1.46	1.12
1:AA:131:C:C5'	16:AQ:128:ARG:HH11	1.57	1.12
37:BR:95:PHE:CB	38:BS:21:PHE:CD1	1.89	1.13
18:B3:487:G:H3'	40:BU:90:VAL:CB	1.78	1.12
18:B3:2820:A:OP2	22:BC:101:LEU:N	1.80	1.12
18:B3:401:C:H4'	31:BL:94:GLN:C	1.67	1.12
18:B3:1800:G:OP2	35:BP:69:LYS:NZ	1.82	1.13
1:AA:7:G:C4	6:AE:198:GLN:OE1	2.01	1.12
18:B3:2797:C:P	27:BH:127:PRO:CG	2.36	1.13
2:AT:140:GLU:HB2	2:AT:481:MET:HE3	1.29	1.12
18:B3:1226:G:P	18:B3:1246:A:H61	1.70	1.12
1:AA:678:U:C2'	11:AK:125:THR:CG2	2.27	1.12
18:B3:343:C:H5''	40:BU:34:PRO:HG3	1.14	1.13
18:B3:81:G:O4'	40:BU:73:VAL:HG11	1.37	1.12
1:AA:292:G:C2'	1:AA:609:A:C6	2.31	1.13
18:B3:1235:G:C6	32:BM:69:PRO:HD2	1.84	1.13
2:AT:29:ASP:CG	18:B3:2693:U:OP1	1.87	1.12
15:AO:82:GLU:HG2	15:AO:85:GLU:HG2	1.29	1.13
3:AB:104:GLY:HA2	3:AB:107:THR:HG22	1.18	1.12
1:AA:57:G:H1'	1:AA:368:U:C2	1.82	1.12
4:AC:105:LYS:HA	4:AC:105:LYS:HE2	1.29	1.12
1:AA:1318:A:OP1	17:AS:52:LYS:O	1.67	1.12
1:AA:979:C:O2	17:AS:56:PHE:CE2	2.01	1.12
1:AA:1150:U:H4'	10:AJ:59:PRO:HG2	1.27	1.12
10:AJ:55:PRO:HA	10:AJ:91:ILE:HG12	1.19	1.12
19:B4:10:C:H41	36:BQ:26:HIS:CE1	1.66	1.12
21:BB:177:PRO:HG3	47:B9:22:ARG:NH1	1.62	1.12
18:B3:1861:C:H4'	21:BB:7:GLN:HA	1.28	1.12
18:B3:93:C:C5'	44:BX:42:PRO:HB2	1.77	1.12
18:B3:1133:A:C2	18:B3:2501:G:C4	2.38	1.12
31:BL:13:LYS:HA	31:BL:18:LEU:HD23	1.20	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1808:C:OP1	18:B3:2886:C:OP2	1.66	1.12
20:BA:43:PRO:CG	20:BA:132:GLY:O	1.97	1.12
18:B3:2579:G:C5'	18:B3:2680:A:O4'	1.97	1.12
1:AA:1086:U:C4'	1:AA:1389:C:H4'	1.78	1.12
1:AA:919:A:H4'	1:AA:1079:G:N2	1.48	1.12
1:AA:17:U:O4	1:AA:916:G:O6	1.67	1.12
18:B3:1267:C:H4'	42:B0:61:LYS:NZ	1.63	1.12
18:B3:1882:C:OP2	21:BB:199:ARG:HB2	1.49	1.12
1:AA:1318:A:C3'	17:AS:54:ALA:HB3	1.72	1.12
1:AA:1329:A:O2'	13:AM:90:ASN:ND2	1.82	1.12
10:AJ:38:SER:HB2	10:AJ:91:ILE:HD11	1.19	1.12
19:B4:51:A:C2	24:BE:58:LYS:CB	2.21	1.12
18:B3:2328:U:OP1	24:BE:153:THR:HG21	1.49	1.12
24:BE:65:ILE:HG13	24:BE:75:LEU:HD22	1.26	1.12
33:BN:104:LYS:HD2	33:BN:106:LEU:HD12	1.32	1.12
45:BY:17:LEU:HA	45:BY:24:ARG:HA	1.28	1.12
18:B3:1181:A:H4'	30:BK:109:ILE:CG1	1.77	1.12
18:B3:107:U:H5'	44:BX:57:VAL:O	1.48	1.12
18:B3:968:G:O2'	28:BI:39:LYS:CG	1.96	1.12
18:B3:433:C:C4'	31:BL:149:TRP:CE3	2.31	1.12
18:B3:1785:G:C4'	18:B3:2733:U:OP1	1.96	1.12
20:BA:63:MET:HG3	20:BA:108:ASN:HB3	1.20	1.12
1:AA:59:A:C5'	1:AA:388:G:N7	2.12	1.12
18:B3:1139:U:C4'	27:BH:62:ARG:HE	1.62	1.12
18:B3:1139:U:H5''	27:BH:62:ARG:HG3	1.29	1.12
32:BM:58:ARG:HD2	32:BM:60:ALA:HB2	1.26	1.12
1:AA:1343:G:C4'	9:AI:137:PHE:O	1.97	1.12
18:B3:905:C:H5'	41:BV:11:ARG:CZ	1.79	1.12
41:BV:123:ILE:HA	41:BV:142:GLY:HA2	1.27	1.12
1:AA:280:C:O2	16:AQ:102:ARG:HG2	1.49	1.12
1:AA:1321:C:C2'	17:AS:81:ARG:NH2	2.12	1.12
18:B3:620:A:C4'	42:B0:40:SER:HB2	1.76	1.12
18:B3:2413:A:H1'	24:BE:174:PRO:C	1.66	1.12
18:B3:493:U:C5'	33:BN:99:ALA:HB1	1.78	1.12
18:B3:1316:G:OP1	42:B0:102:ALA:HB3	1.48	1.12
34:BO:41:ASP:HB2	34:BO:133:LYS:HG2	1.20	1.12
18:B3:1163:G:C8	30:BK:51:LYS:CB	2.33	1.12
18:B3:1875:A:O2'	21:BB:151:SER:N	1.82	1.12
18:B3:1055:G:OP2	28:BI:110:ARG:HB2	1.31	1.12
22:BC:359:ASP:HB2	38:BS:17:ARG:N	1.23	1.12
18:B3:2818:A:H4'	22:BC:99:ARG:HH11	1.13	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:70:GLU:OE2	37:BR:11:PHE:CE1	2.03	1.12
31:BL:34:VAL:HA	31:BL:64:ARG:HD3	1.31	1.12
18:B3:2214:A:H2'	20:BA:106:LYS:HD2	1.12	1.12
10:AJ:69:LYS:HE3	14:AN:39:ARG:NH2	1.63	1.12
1:AA:553:A:OP1	12:AL:122:PHE:HE2	1.32	1.12
18:B3:906:C:N1	18:B3:1329:A:C8	1.99	1.12
1:AA:559:A:N7	12:AL:36:THR:HG22	1.45	1.12
41:BV:81:ILE:HG12	41:BV:86:ARG:HD2	1.30	1.12
1:AA:319:G:N3	1:AA:1434:A:N1	1.96	1.12
18:B3:1875:A:H2'	21:BB:150:PRO:HG2	1.13	1.12
19:B4:85:A:C2'	25:BF:219:PHE:O	1.97	1.12
19:B4:85:A:H1'	25:BF:228:PHE:CE2	1.85	1.12
22:BC:28:VAL:HG11	22:BC:339:LYS:HD3	1.24	1.12
18:B3:2820:A:H1'	22:BC:89:VAL:HG12	1.22	1.12
1:AA:66:G:H5'	1:AA:173:U:C2	1.62	1.12
2:AT:112:SER:HB2	2:AT:537:HIS:ND1	1.65	1.12
27:BH:41:ILE:N	32:BM:125:VAL:CG1	2.00	1.12
18:B3:2408:A:O2'	46:BZ:19:HIS:CD2	2.03	1.12
47:B9:36:TYR:HB2	47:B9:46:VAL:HG11	1.28	1.12
13:AM:129:TRP:CZ3	17:AS:121:ILE:CD1	2.32	1.11
1:AA:1319:A:OP1	17:AS:84:ILE:CD1	1.96	1.11
18:B3:1074:G:H5''	42:B0:45:ARG:HD2	1.23	1.11
19:B4:118:C:O5'	24:BE:70:THR:OG1	1.66	1.11
18:B3:676:C:H1'	23:BD:231:SER:O	1.34	1.11
18:B3:679:G:P	23:BD:258:ASP:OD1	2.07	1.11
28:BI:10:ARG:HD2	28:BI:160:PRO:HG2	1.25	1.11
18:B3:160:A:OP1	31:BL:85:ASN:CB	1.98	1.11
18:B3:1713:G:O2'	18:B3:2745:C:C1'	1.97	1.11
18:B3:1814:G:H2'	18:B3:2733:U:C6	1.84	1.11
18:B3:921:G:OP2	41:BV:40:HIS:CE1	2.03	1.11
18:B3:1744:G:O2'	37:BR:21:ALA:HA	1.49	1.11
27:BH:57:VAL:HG11	32:BM:126:LEU:HG	1.27	1.11
27:BH:67:ALA:HB3	32:BM:127:ARG:HA	1.22	1.11
18:B3:2460:A:H1'	46:BZ:59:LYS:CB	1.79	1.11
1:AA:1493:A:H2'	1:AA:1494:G:H5'	1.32	1.11
18:B3:81:G:H4'	40:BU:74:TYR:O	1.45	1.11
1:AA:755:G:P	15:AO:123:ARG:HD2	1.89	1.11
1:AA:970:C:H5	9:AI:142:ARG:NH2	1.48	1.11
1:AA:1321:C:H5'	17:AS:118:GLU:HA	1.26	1.11
13:AM:89:GLN:CG	13:AM:109:LEU:N	1.95	1.11
18:B3:2363:G:N2	36:BQ:8:ARG:HD3	1.63	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:677:C:H4'	23:BD:256:LYS:CD	1.80	1.11
34:BO:77:ALA:HB3	34:BO:79:LYS:HD2	1.30	1.11
18:B3:111:C:H4'	18:B3:119:A:N6	1.63	1.11
1:AA:129:U:O2'	16:AQ:128:ARG:CA	1.83	1.11
18:B3:69:A:C5'	44:BX:52:ALA:HB1	1.79	1.11
22:BC:360:THR:N	38:BS:14:TYR:CB	1.99	1.11
18:B3:1794:G:OP1	35:BP:97:ARG:CG	1.96	1.11
7:AG:112:ILE:HG23	7:AG:113:ILE:HD12	1.30	1.11
18:B3:1445:G:O3'	39:BT:69:GLU:OE1	1.67	1.11
18:B3:1041:U:H5''	41:BV:18:LYS:HG2	1.19	1.11
37:BR:61:THR:HG23	37:BR:72:LYS:HB3	1.29	1.11
18:B3:1227:C:C4'	32:BM:132:ARG:NH2	2.12	1.11
1:AA:1404:C:C2'	1:AA:1519:A:H4'	1.74	1.11
41:BV:71:VAL:HG12	41:BV:110:LYS:HD3	1.12	1.11
1:AA:125:U:C5'	1:AA:291:C:C4'	2.27	1.11
19:B4:30:C:N3	24:BE:57:ASN:HB2	1.66	1.11
19:B4:46:C:O2'	24:BE:153:THR:O	1.67	1.11
18:B3:2841:A:N3	33:BN:68:ARG:HD3	1.66	1.11
18:B3:1370:G:C6	33:BN:25:PHE:C	2.16	1.11
18:B3:1875:A:H3'	21:BB:150:PRO:HB2	1.27	1.11
18:B3:402:U:H4'	31:BL:69:ASN:OD1	1.48	1.11
18:B3:921:G:C5'	41:BV:42:ILE:N	2.12	1.11
18:B3:919:U:O2	41:BV:41:ARG:HA	0.94	1.11
6:AE:155:THR:HA	8:AH:96:ARG:HB3	1.11	1.11
3:AB:84:ALA:HB1	3:AB:88:PHE:HE2	1.13	1.11
1:AA:12:U:C5'	1:AA:526:C:C4'	2.27	1.11
1:AA:65:U:H1'	1:AA:382:A:N1	1.56	1.11
18:B3:2557:U:C2	18:B3:2800:A:N7	2.18	1.11
27:BH:11:GLU:HA	27:BH:52:LEU:HB3	1.13	1.11
27:BH:76:ASP:HA	27:BH:79:ILE:HD12	1.30	1.11
1:AA:678:U:O2'	11:AK:125:THR:HG22	1.50	1.11
18:B3:2407:G:N2	46:BZ:10:TYR:CZ	2.17	1.11
43:BW:77:LYS:HE2	43:BW:79:ASN:HB2	1.30	1.11
1:AA:1308:U:O3'	13:AM:127:HIS:HE1	1.32	1.11
18:B3:617:C:O2'	42:B0:45:ARG:C	1.66	1.11
1:AA:1151:A:H5'	10:AJ:59:PRO:O	1.39	1.11
1:AA:1250:A:H4'	9:AI:71:GLY:HA2	1.22	1.11
18:B3:1167:G:C8	30:BK:111:GLU:OE2	2.03	1.11
30:BK:32:ILE:HD12	30:BK:37:LEU:HD23	1.13	1.11
18:B3:1847:A:C4	21:BB:180:LYS:HB3	1.85	1.11
18:B3:2442:G:H5'	41:BV:60:PHE:HE2	0.97	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:157:VAL:HG13	22:BC:182:LEU:HD21	1.12	1.11
37:BR:93:LEU:HB2	38:BS:21:PHE:HA	1.31	1.11
18:B3:1705:C:O3'	35:BP:65:HIS:CD2	2.03	1.11
10:AJ:69:LYS:HE3	14:AN:39:ARG:HH22	0.99	1.11
1:AA:364:A:C5	12:AL:78:LYS:CD	2.30	1.11
18:B3:2596:A:H5''	37:BR:73:VAL:CG1	1.80	1.11
18:B3:1501:A:OP2	35:BP:37:ARG:CG	1.98	1.11
18:B3:2460:A:H5''	46:BZ:61:ALA:HA	1.24	1.11
18:B3:79:G:H5''	40:BU:28:ARG:HB3	1.15	1.11
1:AA:1362:C:O2	13:AM:137:HIS:ND1	1.83	1.11
18:B3:882:A:O4'	45:BY:2:LYS:CB	1.97	1.11
1:AA:1180:A:H5'	9:AI:117:ILE:HD13	1.14	1.11
19:B4:36:C:C4'	24:BE:182:GLY:N	2.13	1.11
19:B4:85:A:O4'	25:BF:131:PRO:HB3	1.51	1.11
18:B3:2337:G:OP2	29:BJ:103:PHE:CG	2.02	1.11
20:BA:51:GLY:N	20:BA:54:LYS:N	1.99	1.11
6:AE:155:THR:HG21	8:AH:112:HIS:CE1	1.86	1.11
1:AA:12:U:C5'	1:AA:526:C:H4'	1.81	1.11
1:AA:59:A:O3'	1:AA:388:G:C2'	1.95	1.11
2:AT:141:THR:HG23	2:AT:483:PHE:CB	1.81	1.11
18:B3:1225:C:C5'	18:B3:1248:A:H2	1.64	1.11
27:BH:17:THR:HB	27:BH:28:VAL:HG21	1.12	1.11
18:B3:2552:C:H4'	18:B3:2553:A:C4	1.85	1.11
18:B3:906:C:C4	18:B3:1329:A:N3	2.19	1.11
1:AA:243:A:H4'	1:AA:244:U:H5'	1.33	1.11
18:B3:882:A:O4'	45:BY:2:LYS:CG	1.99	1.10
18:B3:618:G:C4'	42:B0:44:ARG:O	1.98	1.10
24:BE:106:ALA:HA	24:BE:110:LEU:HD13	1.33	1.10
18:B3:1316:G:OP2	42:B0:102:ALA:HB3	1.49	1.10
42:B0:87:MET:HB2	42:B0:117:ILE:HA	1.16	1.10
18:B3:448:G:N2	23:BD:47:GLN:HE21	1.49	1.10
18:B3:710:G:OP1	34:BO:42:ALA:CB	1.98	1.10
1:AA:537:G:C5'	12:AL:143:PRO:CG	2.15	1.10
18:B3:402:U:H1'	31:BL:92:LYS:HG3	1.21	1.10
18:B3:1789:G:O2'	18:B3:2877:G:H1'	0.93	1.10
18:B3:1787:C:H2'	18:B3:2882:G:H3'	1.18	1.10
18:B3:919:U:C2	41:BV:41:ARG:CA	2.28	1.10
18:B3:2335:C:N1	29:BJ:116:ASP:HB3	1.19	1.10
18:B3:2347:C:C5'	29:BJ:46:GLN:HB3	1.81	1.10
18:B3:1676:G:O3'	39:BT:115:PRO:CD	1.99	1.10
3:AB:141:PRO:HA	8:AH:68:LEU:CD1	1.81	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:621:A:OP2	5:AD:143:ILE:CG1	1.99	1.10
8:AH:39:VAL:HG11	8:AH:102:ILE:HD12	1.26	1.10
1:AA:67:C:C4	1:AA:70:G:C6	2.39	1.10
1:AA:404:U:O4	5:AD:70:LEU:CG	1.98	1.10
18:B3:730:G:H5''	41:BV:132:LEU:HD13	1.26	1.10
41:BV:80:LEU:HG	41:BV:86:ARG:HG3	1.26	1.10
2:AT:466:THR:HG21	2:AT:516:PRO:HG3	1.20	1.10
18:B3:677:C:H1'	23:BD:230:ALA:CA	1.78	1.10
18:B3:676:C:O2'	23:BD:231:SER:O	1.60	1.10
18:B3:657:G:O2'	23:BD:119:TYR:CZ	2.04	1.10
18:B3:890:C:H1'	45:BY:48:TRP:O	1.46	1.10
18:B3:1652:C:C6	21:BB:174:VAL:HG22	1.85	1.10
21:BB:177:PRO:CG	47:B9:25:VAL:HG23	1.80	1.10
22:BC:359:ASP:OD1	38:BS:14:TYR:CG	2.04	1.10
18:B3:2826:G:C4	22:BC:124:SER:CB	2.34	1.10
18:B3:2806:C:H4'	22:BC:343:THR:OG1	1.46	1.10
18:B3:2245:C:C6	18:B3:2246:U:C5	2.34	1.10
18:B3:1794:G:C4'	35:BP:96:ARG:HG3	1.70	1.10
18:B3:2345:A:C5'	29:BJ:48:LYS:HD2	1.62	1.10
18:B3:2215:A:C5'	20:BA:107:TYR:CD2	2.34	1.10
18:B3:1675:C:C5	39:BT:113:VAL:N	2.18	1.10
1:AA:826:C:H5'	8:AH:27:ARG:HH12	1.07	1.10
1:AA:31:G:OP2	1:AA:306:G:C2	2.04	1.10
1:AA:363:A:H3'	12:AL:77:ILE:CD1	1.80	1.10
1:AA:553:A:OP1	12:AL:122:PHE:CE2	2.04	1.10
18:B3:2704:C:O2	27:BH:121:LYS:CB	1.98	1.10
18:B3:1381:A:C5	43:BW:25:LYS:HA	1.86	1.10
18:B3:82:C:OP1	40:BU:75:ARG:HB2	1.49	1.10
1:AA:865:A:HO2'	1:AA:1079:G:N2	1.47	1.10
1:AA:499:A:O2'	1:AA:500:G:H5'	1.47	1.10
1:AA:121:C:O4'	1:AA:235:C:N4	1.80	1.10
1:AA:1349:A:OP1	9:AI:135:SER:N	1.83	1.10
20:BA:114:GLU:HG2	20:BA:137:PRO:HB2	1.32	1.10
1:AA:1309:G:H3'	13:AM:92:ILE:CG1	1.51	1.10
1:AA:1320:C:N4	17:AS:116:LEU:HB2	1.01	1.10
18:B3:540:A:H5''	42:B0:17:PHE:HA	1.26	1.10
18:B3:501:G:H5'	33:BN:16:ALA:CA	1.68	1.10
18:B3:448:G:N2	23:BD:47:GLN:NE2	1.97	1.10
18:B3:170:U:OP1	31:BL:82:LYS:CB	1.99	1.10
18:B3:93:C:O4'	44:BX:42:PRO:HB2	1.51	1.10
18:B3:67:A:C4'	44:BX:55:LEU:CD2	2.29	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1054:G:OP2	28:BI:14:ASN:OD1	1.69	1.10
18:B3:2848:G:OP2	22:BC:173:LYS:CE	1.98	1.10
18:B3:2828:G:O5'	22:BC:129:PHE:CB	1.90	1.10
18:B3:1794:G:H4'	35:BP:96:ARG:HG2	1.28	1.10
18:B3:2333:G:C2'	29:BJ:113:ILE:O	1.99	1.10
18:B3:1673:U:H1'	39:BT:90:ASN:C	1.72	1.10
1:AA:523:A:C6	12:AL:113:ALA:HB1	1.86	1.10
18:B3:1993:C:N4	37:BR:35:TYR:OH	1.84	1.10
18:B3:1117:A:OP1	18:B3:1138:G:O6	1.69	1.10
27:BH:41:ILE:N	32:BM:125:VAL:HG12	1.37	1.10
18:B3:907:A:H5'	18:B3:1328:A:C4'	1.79	1.10
1:AA:404:U:N1	5:AD:19:TYR:CE2	2.19	1.10
18:B3:145:A:C4'	31:BL:137:GLN:HE21	1.64	1.10
1:AA:1340:A:H2'	9:AI:141:TYR:CZ	1.85	1.10
22:BC:59:LEU:HD12	22:BC:66:PHE:HB3	1.32	1.10
18:B3:499:G:H4'	33:BN:19:SER:OG	1.52	1.10
18:B3:1090:A:H5'	42:B0:55:ILE:HD12	1.20	1.10
1:AA:1314:C:N4	17:AS:49:MET:HA	0.78	1.10
1:AA:1308:U:C2	13:AM:93:THR:OG1	1.92	1.10
1:AA:1318:A:C2	17:AS:56:PHE:CE1	2.40	1.10
19:B4:50:G:C3'	24:BE:93:THR:N	2.13	1.10
23:BD:181:LEU:HD21	23:BD:185:LYS:HG2	1.31	1.10
23:BD:24:VAL:HG21	23:BD:122:ALA:HB1	1.10	1.10
18:B3:894:A:C5'	23:BD:57:HIS:CD2	1.79	1.10
22:BC:217:ILE:HD11	22:BC:337:LEU:HB2	1.18	1.10
18:B3:2713:G:C5'	37:BR:44:SER:O	1.98	1.10
18:B3:2821:C:O2	22:BC:131:LYS:HE2	1.50	1.10
18:B3:2762:C:O2	37:BR:83:LYS:CE	1.98	1.10
18:B3:1794:G:C4'	35:BP:96:ARG:HG2	1.72	1.10
18:B3:1787:C:O2	18:B3:2883:A:C8	2.04	1.10
18:B3:1814:G:H3'	18:B3:2733:U:C2	1.86	1.10
10:AJ:71:PRO:CD	14:AN:36:ASN:HB2	1.82	1.10
1:AA:622:A:C5'	5:AD:78:ARG:HG2	1.73	1.10
6:AE:138:ILE:HB	6:AE:217:ILE:HD11	1.34	1.10
2:AT:140:GLU:CA	2:AT:481:MET:CG	2.11	1.10
18:B3:164:G:O3'	41:BV:31:ARG:CB	1.98	1.10
1:AA:779:C:OP1	11:AK:131:ARG:N	1.83	1.10
18:B3:2552:C:H5''	18:B3:2553:A:H2	1.10	1.10
5:AD:28:LEU:HB3	5:AD:43:TYR:HA	1.31	1.10
1:AA:947:G:C5'	13:AM:143:ARG:CZ	2.29	1.10
1:AA:239:U:O2'	1:AA:288:A:N9	1.82	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:225:GLU:HG3	23:BD:236:GLN:HG3	1.34	1.10
18:B3:751:U:H4'	23:BD:36:THR:CG2	1.82	1.10
21:BB:80:GLY:HA2	47:B9:64:ALA:O	1.52	1.10
18:B3:2468:A:C8	46:BZ:55:PRO:HG3	1.86	1.10
18:B3:2819:C:O4'	22:BC:99:ARG:O	1.65	1.10
37:BR:92:PHE:CE1	38:BS:20:LEU:HD11	1.87	1.10
18:B3:1705:C:C5'	35:BP:62:THR:CB	2.29	1.10
18:B3:1809:G:H4'	18:B3:2731:G:H5'	1.29	1.10
35:BP:98:LEU:H	35:BP:101:LEU:HD23	1.04	1.10
29:BJ:59:ARG:HD2	29:BJ:62:GLU:HA	1.20	1.10
1:AA:560:U:N1	1:AA:563:A:H5'	1.67	1.10
18:B3:1993:C:C1'	37:BR:72:LYS:CG	2.10	1.10
27:BH:43:VAL:CG1	32:BM:126:LEU:C	2.19	1.10
18:B3:905:C:O2	18:B3:1330:A:C8	2.04	1.10
1:AA:924:C:C1'	1:AA:1398:A:C4	2.34	1.10
18:B3:145:A:O2'	31:BL:111:ASN:OD1	1.68	1.10
6:AE:98:LYS:HE2	6:AE:114:ILE:HB	1.17	1.10
20:BA:94:ASN:HB2	20:BA:123:LEU:HB3	1.17	1.10
1:AA:55:A:C2	2:AT:67:GLY:C	2.24	1.10
1:AA:1296:C:C5'	13:AM:52:VAL:C	2.19	1.09
18:B3:1316:G:C5'	42:B0:101:SER:HB3	1.81	1.09
23:BD:125:ILE:HG23	23:BD:237:LEU:HD13	1.34	1.09
30:BK:37:LEU:HD21	30:BK:42:VAL:HG21	1.11	1.09
21:BB:20:ARG:HG3	21:BB:21:LEU:HD22	1.22	1.09
1:AA:131:C:H3'	16:AQ:128:ARG:CZ	1.65	1.09
18:B3:2668:G:O3'	22:BC:128:ALA:CB	2.00	1.09
18:B3:2713:G:H5'	37:BR:44:SER:O	1.51	1.09
26:BG:138:VAL:HG21	26:BG:198:ALA:HB3	1.14	1.09
18:B3:1805:G:H5''	18:B3:2875:A:H4'	1.30	1.09
18:B3:124:C:OP2	39:BT:88:LYS:HD3	1.51	1.09
18:B3:1943:C:H5''	21:BB:218:ILE:HD11	1.21	1.09
1:AA:12:U:H4'	1:AA:526:C:H4'	1.16	1.09
1:AA:363:A:C3'	12:AL:77:ILE:HD11	1.61	1.09
1:AA:364:A:N7	12:AL:78:LYS:CD	2.15	1.09
1:AA:920:U:H5'	1:AA:1080:A:N3	1.66	1.09
1:AA:1070:U:O3'	6:AE:90:ARG:CB	1.96	1.09
1:AA:1101:A:H61	3:AB:102:THR:HG22	1.15	1.09
1:AA:877:C:C1'	8:AH:3:SER:CB	2.30	1.09
1:AA:293:G:H5'	1:AA:610:G:N3	1.63	1.09
1:AA:436:C:C2	1:AA:496:A:C2'	2.33	1.09
1:AA:1505:G:H8	1:AA:1506:U:C6	1.68	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:519:C:OP2	12:AL:67:ALA:CA	1.99	1.09
1:AA:988:G:H2'	1:AA:1015:A:C8	1.87	1.09
1:AA:1299:A:H5'	13:AM:57:ARG:CZ	1.83	1.09
13:AM:91:ASP:CA	13:AM:109:LEU:O	1.85	1.09
19:B4:69:U:C3'	24:BE:14:SER:HB2	1.80	1.09
19:B4:29:C:N4	24:BE:57:ASN:HB3	1.64	1.09
1:AA:320:C:C1'	1:AA:1435:G:C2'	2.26	1.09
18:B3:1370:G:O4'	33:BN:62:PHE:CE1	1.71	1.09
18:B3:1309:U:P	23:BD:203:GLY:O	2.08	1.09
18:B3:635:A:C5'	23:BD:91:ASN:CG	2.13	1.09
21:BB:177:PRO:CG	47:B9:22:ARG:NH1	2.15	1.09
1:AA:256:U:OP1	16:AQ:81:ARG:HD3	1.36	1.09
18:B3:67:A:O5'	44:BX:55:LEU:HD23	1.48	1.09
22:BC:165:ILE:HG21	22:BC:171:ALA:HB3	1.34	1.09
18:B3:2809:G:OP1	22:BC:273:SER:O	1.70	1.09
18:B3:2763:G:H4'	37:BR:84:SER:N	1.65	1.09
18:B3:2719:A:C8	38:BS:17:ARG:NH2	2.14	1.09
18:B3:1705:C:H5''	35:BP:62:THR:OG1	1.53	1.09
18:B3:2345:A:H1'	29:BJ:23:GLY:N	1.66	1.09
18:B3:2337:G:OP2	29:BJ:103:PHE:CD2	2.06	1.09
1:AA:620:C:OP1	5:AD:143:ILE:CG2	2.01	1.09
1:AA:401:C:C5'	5:AD:78:ARG:CG	2.25	1.09
1:AA:553:A:O2'	12:AL:45:GLY:N	1.86	1.09
1:AA:1346:A:H5''	9:AI:134:ARG:HH22	1.09	1.09
18:B3:2565:C:N3	27:BH:171:ASP:CB	2.16	1.09
1:AA:1343:G:H4'	9:AI:137:PHE:O	1.48	1.09
20:BA:120:VAL:HG13	20:BA:121:PRO:HD2	1.29	1.09
33:BN:49:GLN:HE21	33:BN:54:GLN:HG2	1.14	1.09
18:B3:2370:A:H61	36:BQ:49:GLN:NE2	1.48	1.09
18:B3:1529:G:H4'	21:BB:69:ARG:NH1	1.67	1.09
1:AA:1299:A:O2'	13:AM:30:TYR:CB	1.99	1.09
18:B3:621:C:H3'	42:B0:36:LYS:HD2	1.32	1.09
18:B3:1348:A:H4'	23:BD:38:PHE:CZ	1.86	1.09
23:BD:187:ARG:HB3	23:BD:197:ARG:HG3	1.20	1.09
18:B3:1359:U:O4	23:BD:70:VAL:HG23	1.44	1.09
30:BK:53:PHE:CE1	30:BK:86:LYS:CD	2.27	1.09
18:B3:1875:A:H5''	21:BB:127:ARG:NH2	1.34	1.09
21:BB:177:PRO:HB3	47:B9:22:ARG:CD	1.81	1.09
18:B3:945:U:O2'	25:BF:124:GLU:HB3	1.35	1.09
18:B3:1067:A:OP1	25:BF:96:PRO:HG2	1.50	1.09
1:AA:131:C:H5'	16:AQ:128:ARG:HH11	1.02	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2519:C:C1'	28:BI:158:LYS:HA	1.82	1.09
37:BR:92:PHE:O	38:BS:19:THR:HG23	1.50	1.09
18:B3:1132:A:O2'	18:B3:2521:A:C5'	0.79	1.09
18:B3:2333:G:N9	29:BJ:114:LYS:HG2	1.51	1.09
18:B3:1672:G:H5''	39:BT:91:LYS:HG2	1.21	1.09
1:AA:400:C:C5'	5:AD:77:ILE:CD1	2.26	1.09
1:AA:364:A:OP1	12:AL:50:LYS:HD3	1.50	1.09
1:AA:520:A:OP1	12:AL:70:LYS:HE2	1.49	1.09
2:AT:140:GLU:O	2:AT:481:MET:N	1.85	1.09
2:AT:536:LEU:HD22	18:B3:2698:G:C2'	1.82	1.09
2:AT:536:LEU:HD13	18:B3:2699:A:H5'	1.16	1.09
18:B3:1243:C:H5''	32:BM:17:ARG:NH2	1.40	1.09
1:AA:1081:G:P	6:AE:88:GLN:OE1	2.09	1.09
1:AA:1086:U:H5''	1:AA:1389:C:H5''	1.12	1.09
18:B3:343:C:H5''	40:BU:34:PRO:CG	1.82	1.09
18:B3:78:G:H4'	40:BU:25:SER:OG	1.51	1.09
6:AE:102:VAL:HG21	6:AE:189:LEU:HB3	1.14	1.09
1:AA:20:U:H5'	1:AA:573:A:H61	1.13	1.09
1:AA:405:U:N3	5:AD:27:GLU:N	1.82	1.09
18:B3:698:A:H3'	41:BV:114:LYS:HB2	1.33	1.09
18:B3:2320:U:C4	46:BZ:4:PRO:HB3	1.87	1.09
18:B3:1882:C:OP1	21:BB:200:GLY:HA3	1.52	1.09
18:B3:2222:C:C5'	20:BA:215:ARG:HH22	1.66	1.09
20:BA:169:VAL:HG23	20:BA:179:LEU:HD21	1.32	1.09
1:AA:988:G:C5'	1:AA:1013:G:O3'	2.01	1.09
1:AA:988:G:N3	1:AA:1015:A:C8	1.97	1.09
1:AA:1176:A:H3'	9:AI:107:ALA:CB	1.83	1.09
18:B3:1311:G:C5	23:BD:185:LYS:HB3	1.85	1.09
18:B3:679:G:OP1	23:BD:258:ASP:OD1	1.71	1.09
18:B3:1343:C:O2	23:BD:188:ALA:HB2	1.53	1.09
18:B3:1846:U:OP2	21:BB:197:LYS:NZ	1.85	1.09
18:B3:2656:G:O2'	22:BC:268:GLN:NE2	1.83	1.09
22:BC:189:GLU:HB3	22:BC:190:LYS:HE2	1.24	1.09
31:BL:168:LYS:HE2	31:BL:169:LYS:HG2	1.32	1.09
18:B3:265:U:H5''	31:BL:55:LYS:CE	1.82	1.09
20:BA:57:ASN:ND2	20:BA:155:ILE:HD12	1.65	1.09
18:B3:1676:G:C5'	39:BT:115:PRO:HG3	1.79	1.09
6:AE:155:THR:CA	8:AH:96:ARG:HB3	1.67	1.09
1:AA:1370:G:P	9:AI:123:PRO:CG	2.38	1.09
18:B3:1116:U:H2'	18:B3:1226:G:H8	1.12	1.09
1:AA:677:U:C4	11:AK:121:PRO:HB2	1.86	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:G:O6	1:AA:199:G:C5'	1.99	1.09
18:B3:2407:G:N2	46:BZ:10:TYR:CE2	2.21	1.09
18:B3:79:G:H5''	40:BU:28:ARG:CB	1.82	1.09
1:AA:559:A:N7	12:AL:36:THR:HG21	1.67	1.09
1:AA:124:G:H5''	1:AA:289:G:N2	1.67	1.09
18:B3:1137:G:O2'	18:B3:2784:A:C2	1.82	1.09
22:BC:211:ASN:HB2	22:BC:349:ALA:HB3	1.15	1.09
1:AA:1301:U:H5'	13:AM:30:TYR:HA	1.17	1.09
13:AM:91:ASP:C	13:AM:109:LEU:HD11	1.57	1.09
1:AA:1219:U:O3'	17:AS:58:LYS:HG2	1.05	1.09
1:AA:1220:G:OP1	17:AS:80:MET:HE3	1.48	1.09
19:B4:6:C:H3'	24:BE:28:THR:HG21	1.31	1.09
18:B3:1334:C:H2'	42:B0:98:HIS:H	0.97	1.09
18:B3:679:G:OP1	23:BD:258:ASP:CG	1.91	1.09
18:B3:448:G:C2'	23:BD:195:ASN:ND2	1.92	1.09
18:B3:2100:A:O4'	23:BD:68:ARG:HD2	1.32	1.09
18:B3:1942:A:O2'	21:BB:222:SER:CB	2.00	1.09
21:BB:47:ILE:HG12	47:B9:53:ILE:HG13	1.20	1.09
21:BB:179:LEU:HD23	47:B9:20:SER:HB2	1.11	1.09
19:B4:97:U:O2	25:BF:220:LYS:HD2	1.46	1.09
19:B4:99:U:H5'	25:BF:222:PHE:HE1	0.98	1.09
18:B3:2519:C:H6	28:BI:158:LYS:CE	1.64	1.09
18:B3:2845:G:C5'	22:BC:24:ILE:HG22	1.81	1.09
28:BI:156:ARG:HD2	28:BI:163:GLN:H	1.15	1.09
18:B3:251:C:H1'	31:BL:139:LYS:HE2	1.32	1.09
18:B3:1707:G:O2'	35:BP:81:LYS:CG	2.00	1.09
18:B3:1815:A:O2'	18:B3:2746:A:N7	1.61	1.09
1:AA:1240:U:H5'	7:AG:188:THR:CB	1.80	1.09
18:B3:2334:C:C2	29:BJ:114:LYS:O	2.05	1.09
20:BA:43:PRO:HG2	20:BA:132:GLY:O	1.52	1.09
5:AD:102:GLU:HA	5:AD:190:GLU:HB2	1.26	1.09
6:AE:219:ASN:O	8:AH:99:GLY:HA2	1.52	1.09
1:AA:65:U:C2'	1:AA:382:A:N1	2.14	1.09
2:AT:108:HIS:HA	2:AT:536:LEU:HD21	1.24	1.09
2:AT:464:LEU:HB3	2:AT:510:ARG:CA	1.83	1.09
1:AA:779:C:C5'	11:AK:132:ARG:C	2.22	1.09
1:AA:1086:U:C5'	1:AA:1389:C:H5''	1.71	1.09
1:AA:1343:G:C5'	9:AI:138:GLN:CA	2.20	1.09
1:AA:21:G:H5''	1:AA:884:U:C1'	1.83	1.09
18:B3:905:C:N3	18:B3:1330:A:C4	2.20	1.09
1:AA:111:G:C2'	1:AA:389:A:H4'	1.83	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:81:LYS:HE2	8:AH:86:GLU:HG3	1.29	1.09
1:AA:1221:G:N7	17:AS:79:HIS:CA	2.15	1.08
1:AA:1224:G:H3'	17:AS:122:THR:OG1	1.31	1.08
1:AA:1299:A:O3'	13:AM:26:ILE:HD11	1.53	1.08
1:AA:1304:G:O6	13:AM:40:ARG:CB	2.01	1.08
18:B3:1689:A:C4	33:BN:128:THR:HG23	1.77	1.08
18:B3:618:G:H1'	42:B0:49:ASN:HB3	1.34	1.08
9:AI:17:ALA:HB1	9:AI:80:ILE:HD13	1.33	1.08
18:B3:2053:G:C5'	33:BN:140:SER:HA	1.71	1.08
18:B3:1164:U:P	30:BK:47:ALA:O	2.11	1.08
18:B3:1163:G:C5	30:BK:51:LYS:CG	2.35	1.08
21:BB:179:LEU:CB	47:B9:20:SER:CB	1.98	1.08
18:B3:90:A:O2'	44:BX:39:PRO:HG2	0.92	1.08
18:B3:1132:A:O2'	18:B3:2521:A:H5'	1.46	1.08
22:BC:71:VAL:N	37:BR:88:ARG:CA	2.06	1.08
18:B3:1785:G:O2'	18:B3:2733:U:OP1	1.69	1.08
18:B3:1708:C:OP1	35:BP:81:LYS:O	1.69	1.08
20:BA:50:SER:OG	20:BA:154:THR:HG21	1.51	1.08
20:BA:55:LEU:HG	20:BA:167:VAL:HG22	1.19	1.08
10:AJ:71:PRO:HG2	14:AN:36:ASN:CB	1.83	1.08
1:AA:401:C:C5'	5:AD:78:ARG:HG3	1.84	1.08
1:AA:523:A:N6	12:AL:113:ALA:CB	2.16	1.08
2:AT:140:GLU:HB2	2:AT:481:MET:CE	1.81	1.08
1:AA:1346:A:C5'	9:AI:134:ARG:NH2	2.07	1.08
18:B3:1117:A:O2'	18:B3:1227:C:O4'	1.70	1.08
32:BM:123:LEU:HB2	32:BM:125:VAL:HG23	1.36	1.08
32:BM:53:TYR:H	32:BM:58:ARG:HG3	1.18	1.08
1:AA:358:U:H5''	2:AT:390:ASP:OD1	1.51	1.08
1:AA:1117:G:C2'	9:AI:120:SER:HB2	1.75	1.08
1:AA:405:U:OP1	5:AD:37:LYS:CE	2.01	1.08
1:AA:118:U:O2	1:AA:123:C:C1'	2.00	1.08
18:B3:1467:C:OP1	31:BL:33:ASN:HB2	1.52	1.08
1:AA:989:C:H5'	1:AA:1013:G:H1'	1.30	1.08
18:B3:619:U:H5''	42:B0:41:VAL:HA	1.33	1.08
19:B4:119:C:H1'	24:BE:72:ASP:C	1.74	1.08
18:B3:2053:G:H5'	33:BN:140:SER:HA	1.35	1.08
33:BN:20:TYR:HB2	33:BN:142:PRO:HB2	1.30	1.08
18:B3:1304:U:C2'	23:BD:194:ARG:CB	2.31	1.08
18:B3:672:G:C5'	23:BD:214:ILE:CG1	2.28	1.08
30:BK:53:PHE:CE1	30:BK:86:LYS:NZ	2.20	1.08
18:B3:815:U:O3'	18:B3:816:G:H5'	1.52	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:796:A:C4'	47:B9:12:LYS:HB3	1.70	1.08
18:B3:945:U:H5''	25:BF:128:LEU:HD11	1.20	1.08
25:BF:221:HIS:HA	25:BF:228:PHE:HB2	1.34	1.08
18:B3:265:U:C5'	31:BL:55:LYS:CE	2.31	1.08
10:AJ:71:PRO:HG3	14:AN:36:ASN:OD1	1.37	1.08
1:AA:364:A:OP1	12:AL:50:LYS:CD	1.99	1.08
18:B3:2578:G:C2	18:B3:2800:A:H2'	1.88	1.08
1:AA:1086:U:H5''	1:AA:1389:C:C4'	1.83	1.08
35:BP:51:LYS:HE2	35:BP:52:LYS:HE2	1.35	1.08
1:AA:21:G:H4'	1:AA:885:G:P	1.93	1.08
18:B3:907:A:C4'	18:B3:1328:A:C4'	2.22	1.08
18:B3:907:A:C5'	18:B3:1328:A:C4'	2.32	1.08
1:AA:1117:G:O2'	9:AI:120:SER:HB2	0.93	1.08
1:AA:125:U:C5'	1:AA:291:C:O4'	2.00	1.08
1:AA:1224:G:OP2	13:AM:139:LYS:HE3	1.52	1.08
1:AA:958:A:C2	17:AS:102:PHE:CD1	2.41	1.08
1:AA:1309:G:C3'	13:AM:123:ARG:HH22	1.64	1.08
18:B3:539:G:C5	42:B0:50:ILE:HD13	1.88	1.08
1:AA:1176:A:C3'	9:AI:107:ALA:CA	2.11	1.08
1:AA:1180:A:C5'	9:AI:117:ILE:CD1	2.30	1.08
19:B4:118:C:H2'	24:BE:71:GLY:HA3	1.17	1.08
36:BQ:30:TYR:HA	36:BQ:93:VAL:HG23	1.34	1.08
33:BN:148:VAL:HG12	33:BN:149:VAL:HG22	1.30	1.08
18:B3:2087:C:O4'	33:BN:78:THR:CG2	1.88	1.08
34:BO:122:ILE:HD13	34:BO:126:GLN:HB3	1.08	1.08
25:BF:167:ILE:HB	25:BF:179:SER:HB3	1.12	1.08
18:B3:92:G:C8	44:BX:41:LEU:CB	2.31	1.08
18:B3:1794:G:C3'	35:BP:96:ARG:HG3	1.82	1.08
18:B3:2347:C:C6	29:BJ:66:VAL:CB	2.34	1.08
2:AT:465:LYS:HZ3	2:AT:511:LEU:CG	1.60	1.08
2:AT:536:LEU:CG	18:B3:2698:G:O2'	2.00	1.08
18:B3:1718:G:OP2	35:BP:19:ARG:NH2	1.85	1.08
18:B3:2460:A:C1'	46:BZ:59:LYS:CB	2.31	1.08
18:B3:100:C:O4'	40:BU:24:SER:OG	1.71	1.08
40:BU:33:ALA:HB2	40:BU:50:ILE:HD11	1.33	1.08
40:BU:50:ILE:HD13	40:BU:104:LEU:HD11	1.35	1.08
1:AA:321:A:H5'	1:AA:1437:C:H5'	1.30	1.08
46:BZ:2:ASN:HB3	46:BZ:91:GLU:HG2	1.33	1.08
11:AK:27:VAL:HG13	11:AK:66:VAL:HG21	1.31	1.08
32:BM:26:LEU:HG	32:BM:101:LEU:HD12	1.35	1.08
9:AI:97:ASP:HB2	9:AI:103:GLU:H	1.09	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:51:A:H62	24:BE:59:ASP:N	1.18	1.08
19:B4:85:A:H1'	25:BF:228:PHE:CZ	1.78	1.08
1:AA:132:C:O2	1:AA:262:A:H2	1.10	1.08
18:B3:92:G:H5''	44:BX:43:LYS:HE3	1.17	1.08
18:B3:2828:G:O5'	22:BC:129:PHE:HB3	1.34	1.08
22:BC:69:ARG:HD3	37:BR:89:ASP:CA	1.81	1.08
18:B3:2737:C:H3'	35:BP:60:SER:N	1.59	1.08
18:B3:2333:G:HO2'	29:BJ:113:ILE:HG13	1.14	1.08
10:AJ:71:PRO:CG	14:AN:36:ASN:CG	2.20	1.08
3:AB:141:PRO:HG3	8:AH:68:LEU:HD22	1.32	1.08
27:BH:41:ILE:HG21	32:BM:128:LEU:HD13	1.09	1.08
18:B3:1131:G:N3	18:B3:2522:G:H4'	1.44	1.08
1:AA:877:C:H1'	8:AH:3:SER:HB3	1.32	1.08
1:AA:346:G:OP1	37:BR:136:VAL:N	1.81	1.08
1:AA:1318:A:C2	17:AS:56:PHE:CD1	2.42	1.08
18:B3:541:C:OP2	42:B0:15:LYS:CD	2.00	1.08
1:AA:1250:A:H5''	9:AI:71:GLY:N	1.62	1.08
19:B4:69:U:O2'	24:BE:14:SER:OG	1.71	1.08
24:BE:187:THR:H	24:BE:200:PHE:HB2	1.16	1.08
18:B3:798:G:C5'	47:B9:9:ILE:HD11	1.81	1.08
19:B4:87:U:H6	25:BF:217:ARG:CZ	1.67	1.08
18:B3:2808:U:H5''	22:BC:274:ARG:HB2	1.31	1.08
18:B3:2244:A:C4'	31:BL:27:TRP:HZ3	1.59	1.08
18:B3:2242:U:C4	18:B3:2257:G:N1	2.22	1.08
7:AG:122:VAL:HG23	7:AG:123:LEU:HD12	1.20	1.08
18:B3:2346:C:C5'	29:BJ:47:SER:C	2.23	1.08
29:BJ:15:LYS:HA	29:BJ:70:VAL:HG21	1.31	1.08
18:B3:2169:C:C2'	20:BA:26:ARG:NH1	2.16	1.08
20:BA:108:ASN:HD21	20:BA:162:VAL:HB	1.18	1.08
39:BT:109:VAL:HB	39:BT:123:VAL:HG22	1.36	1.08
3:AB:143:ILE:HG22	3:AB:157:VAL:HB	1.32	1.08
18:B3:1745:G:OP1	37:BR:22:ILE:CG1	2.01	1.08
27:BH:43:VAL:CG1	32:BM:127:ARG:HD2	1.84	1.08
18:B3:1131:G:N3	18:B3:2522:G:C4'	1.97	1.08
1:AA:1222:G:OP2	17:AS:81:ARG:CZ	1.99	1.07
1:AA:1220:G:C3'	17:AS:78:THR:O	2.01	1.07
1:AA:989:C:H4'	1:AA:1013:G:N2	1.68	1.07
18:B3:540:A:N6	42:B0:50:ILE:HD12	1.42	1.07
9:AI:58:LYS:HD2	9:AI:88:LEU:HD13	1.34	1.07
18:B3:2415:A:O4'	24:BE:39:GLN:HG3	1.52	1.07
19:B4:117:G:O2'	24:BE:69:ILE:CG2	2.02	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:449:A:OP1	23:BD:45:LYS:C	1.91	1.07
18:B3:948:G:C2	36:BQ:100:LYS:CD	2.36	1.07
18:B3:2441:U:O2'	41:BV:60:PHE:HZ	1.38	1.07
22:BC:213:MET:HB2	22:BC:341:LEU:HD13	1.12	1.07
18:B3:2763:G:C5'	37:BR:14:SER:HB2	1.84	1.07
18:B3:402:U:OP1	31:BL:97:LEU:HD22	1.54	1.07
26:BG:126:PRO:HG3	26:BG:131:VAL:HG11	1.36	1.07
31:BL:5:TYR:HB2	31:BL:8:GLU:HG2	1.35	1.07
18:B3:2347:C:O2'	29:BJ:68:VAL:O	1.71	1.07
1:AA:1343:G:H5''	9:AI:137:PHE:O	1.52	1.07
1:AA:405:U:P	5:AD:37:LYS:CE	2.40	1.07
1:AA:321:A:H5'	1:AA:1437:C:C5'	1.76	1.07
1:AA:239:U:O2'	1:AA:288:A:C1'	2.01	1.07
40:BU:14:LYS:HD2	40:BU:17:LYS:HE3	1.33	1.07
7:AG:132:VAL:HG12	7:AG:197:LEU:HD13	1.25	1.07
9:AI:51:LEU:HD21	9:AI:84:ILE:HG12	1.34	1.07
19:B4:50:G:H3'	24:BE:93:THR:N	1.68	1.07
33:BN:90:VAL:HA	33:BN:93:LEU:HD23	1.36	1.07
18:B3:1304:U:C3'	23:BD:194:ARG:CB	2.26	1.07
18:B3:1305:C:O4'	23:BD:194:ARG:HB2	1.11	1.07
18:B3:27:U:C3'	18:B3:1319:G:O4'	1.84	1.07
18:B3:449:A:H62	18:B3:1349:G:C3'	1.49	1.07
23:BD:207:VAL:HG11	23:BD:247:VAL:HG12	1.36	1.07
18:B3:1163:G:C8	30:BK:51:LYS:CG	2.36	1.07
18:B3:796:A:C4'	47:B9:12:LYS:CB	2.28	1.07
1:AA:266:G:O3'	16:AQ:132:LYS:HB2	1.51	1.07
18:B3:2520:G:H5'	28:BI:160:PRO:HA	1.34	1.07
37:BR:95:PHE:CD1	38:BS:21:PHE:HB3	1.90	1.07
18:B3:1812:G:C2	18:B3:2732:U:C5'	2.36	1.07
18:B3:124:C:C6	39:BT:88:LYS:CE	2.37	1.07
10:AJ:74:GLU:HG3	14:AN:37:ILE:HD13	1.09	1.07
39:BT:107:LEU:HD22	39:BT:108:LYS:HG2	1.34	1.07
1:AA:65:U:OP1	1:AA:97:G:OP2	1.70	1.07
1:AA:677:U:C5	11:AK:121:PRO:CG	2.37	1.07
1:AA:20:U:C4'	1:AA:573:A:N6	2.17	1.07
1:AA:689:C:O3'	11:AK:23:ASN:OD1	1.71	1.07
1:AA:1239:A:C4	7:AG:184:ARG:NH1	2.16	1.07
1:AA:989:C:C4'	1:AA:1013:G:N3	2.18	1.07
19:B4:69:U:C2'	24:BE:14:SER:CB	2.32	1.07
18:B3:1358:A:C2'	23:BD:92:MET:CG	2.32	1.07
18:B3:1164:U:H2'	30:BK:51:LYS:HB2	1.19	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:538:G:OP2	12:AL:142:LYS:HG3	1.52	1.07
18:B3:2671:U:C5'	22:BC:178:ALA:HB1	1.83	1.07
28:BI:36:LEU:HB3	28:BI:87:LEU:HB3	1.10	1.07
18:B3:1812:G:N2	18:B3:2732:U:C5'	2.16	1.07
18:B3:1794:G:O2'	35:BP:96:ARG:HD3	0.89	1.07
18:B3:924:G:C6	41:BV:41:ARG:HG3	1.89	1.07
10:AJ:73:GLY:O	14:AN:25:SER:CB	2.03	1.07
18:B3:1943:C:H5''	21:BB:218:ILE:CG1	1.84	1.07
3:AB:141:PRO:CA	8:AH:68:LEU:HD11	1.85	1.07
1:AA:25:C:OP1	12:AL:39:LYS:HG3	1.54	1.07
1:AA:65:U:O2'	1:AA:382:A:C6	2.06	1.07
1:AA:1375:A:N1	7:AG:76:TYR:CZ	2.22	1.07
18:B3:906:C:C4	18:B3:1329:A:C4	2.41	1.07
2:AT:501:LEU:HD11	12:AL:99:ASN:HD22	0.92	1.07
1:AA:598:U:O2'	8:AH:88:TRP:CZ3	2.07	1.07
1:AA:1301:U:C5'	13:AM:30:TYR:HA	1.83	1.07
1:AA:1309:G:H4'	13:AM:91:ASP:HB2	1.31	1.07
18:B3:1694:G:N2	45:BY:5:PRO:HG3	1.49	1.07
19:B4:10:C:N4	36:BQ:26:HIS:NE2	2.01	1.07
42:B0:72:LYS:H	42:B0:90:LYS:HD2	1.19	1.07
34:BO:33:TYR:HB3	34:BO:36:LEU:HD12	1.34	1.07
18:B3:678:G:H5'	23:BD:256:LYS:HB3	1.09	1.07
18:B3:53:C:C2'	18:B3:122:C:OP2	1.97	1.07
18:B3:760:G:H22	23:BD:101:PRO:HB3	0.97	1.07
18:B3:775:G:OP1	45:BY:27:HIS:CE1	2.07	1.07
18:B3:635:A:H5''	23:BD:91:ASN:OD1	1.22	1.07
18:B3:1098:A:OP2	25:BF:216:PRO:HB3	0.91	1.07
1:AA:265:G:H5''	16:AQ:130:ILE:O	1.55	1.07
1:AA:538:G:P	12:AL:143:PRO:CD	2.42	1.07
18:B3:107:U:H6	44:BX:60:GLU:HA	1.15	1.07
18:B3:2671:U:C5'	22:BC:178:ALA:CB	2.27	1.07
22:BC:239:ARG:HA	22:BC:242:HIS:HB3	1.09	1.07
18:B3:2808:U:O2'	22:BC:15:PHE:HB3	1.43	1.07
18:B3:1761:U:N3	35:BP:77:TYR:OH	1.73	1.07
18:B3:925:C:C4'	41:BV:28:PRO:HG3	1.84	1.07
29:BJ:20:ILE:HG21	29:BJ:65:ALA:HB3	1.35	1.07
29:BJ:18:LEU:HG	29:BJ:68:VAL:HG21	1.37	1.07
10:AJ:75:GLY:HA3	14:AN:40:GLN:HG3	1.18	1.07
1:AA:619:U:O2	5:AD:127:VAL:O	1.73	1.07
18:B3:164:G:C3'	41:BV:31:ARG:CG	2.31	1.07
18:B3:1228:C:OP1	32:BM:45:GLU:O	1.70	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:79:G:C4'	40:BU:27:ARG:HH12	1.67	1.07
1:AA:14:U:C5'	1:AA:915:A:OP2	2.03	1.07
18:B3:243:A:P	31:BL:2:ALA:HB2	1.93	1.07
18:B3:2252:A:N7	21:BB:33:TYR:OH	1.88	1.07
11:AK:87:GLY:HA2	11:AK:96:GLY:HA3	1.26	1.07
1:AA:1329:A:H5'	13:AM:98:TYR:CZ	1.89	1.07
19:B4:10:C:N4	36:BQ:26:HIS:CE1	2.22	1.07
19:B4:13:A:O2'	24:BE:20:PHE:CZ	2.08	1.07
18:B3:678:G:H8	23:BD:259:GLN:HG3	1.20	1.07
18:B3:646:G:H4'	23:BD:106:ARG:NH2	1.69	1.07
18:B3:672:G:O5'	23:BD:214:ILE:CG2	2.02	1.07
18:B3:1348:A:C2	23:BD:42:ASN:ND2	2.23	1.07
18:B3:448:G:H3'	18:B3:1306:U:C4'	1.85	1.07
18:B3:1181:A:C5	30:BK:106:LEU:HD13	1.79	1.07
18:B3:1025:C:O4'	25:BF:104:LEU:CD1	2.03	1.07
1:AA:254:G:H4'	16:AQ:79:MET:CE	1.84	1.07
18:B3:2846:C:O2'	22:BC:172:GLN:OE1	1.70	1.07
18:B3:2819:C:C2	22:BC:100:SER:CB	2.24	1.07
18:B3:2806:C:H4'	22:BC:343:THR:CB	1.83	1.07
28:BI:52:LEU:HD23	28:BI:134:ILE:HB	1.37	1.07
22:BC:260:MET:HG3	32:BM:66:THR:HG22	1.30	1.07
18:B3:1809:G:O2'	18:B3:2731:G:O4'	1.54	1.07
1:AA:599:C:H4'	8:AH:121:SER:CB	1.83	1.07
1:AA:620:C:H5'	5:AD:129:ILE:HD11	1.27	1.07
18:B3:1118:A:H5'	18:B3:1228:C:H5	1.04	1.07
32:BM:137:LEU:HD13	32:BM:139:LYS:H	1.13	1.07
18:B3:215:A:H5''	41:BV:58:ARG:NE	1.69	1.07
18:B3:2408:A:H1'	46:BZ:19:HIS:NE2	0.74	1.07
18:B3:2407:G:N1	46:BZ:10:TYR:OH	1.85	1.07
1:AA:634:C:H5''	16:AQ:92:TYR:O	1.52	1.07
1:AA:1344:C:P	9:AI:136:ARG:HE	1.75	1.07
1:AA:357:G:OP1	1:AA:366:C:O5'	1.71	1.07
1:AA:1318:A:C4	17:AS:56:PHE:CD1	2.41	1.06
19:B4:30:C:C4	24:BE:57:ASN:HB2	1.89	1.06
33:BN:115:HIS:HB3	33:BN:148:VAL:HG21	1.28	1.06
23:BD:33:ILE:HG22	23:BD:120:ALA:HB2	1.32	1.06
18:B3:449:A:C2	18:B3:1348:A:C6	2.42	1.06
18:B3:672:G:H5'	23:BD:214:ILE:HG13	1.34	1.06
18:B3:1359:U:H5''	23:BD:91:ASN:HB2	1.09	1.06
21:BB:82:HIS:CD2	47:B9:62:THR:O	2.07	1.06
18:B3:1847:A:N9	21:BB:180:LYS:CB	2.18	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1861:C:O2'	21:BB:7:GLN:O	1.71	1.06
18:B3:945:U:H5'	25:BF:128:LEU:HD11	1.34	1.06
1:AA:131:C:O5'	16:AQ:128:ARG:HB3	1.30	1.06
1:AA:190(E):U:O5'	16:AQ:130:ILE:CD1	1.95	1.06
18:B3:953:G:H5''	36:BQ:13:TYR:CG	1.89	1.06
18:B3:1006:A:H5'	28:BI:16:PRO:HB3	1.37	1.06
22:BC:229:THR:HA	22:BC:234:THR:HG22	1.33	1.06
35:BP:138:VAL:HA	35:BP:141:ILE:HD12	1.35	1.06
18:B3:2345:A:OP2	29:BJ:22:VAL:CG1	2.03	1.06
20:BA:108:ASN:ND2	20:BA:162:VAL:HG21	1.65	1.06
1:AA:620:C:O2'	5:AD:108:ARG:NH2	1.87	1.06
1:AA:554:C:C6	12:AL:45:GLY:CA	2.38	1.06
2:AT:111:PHE:HB2	2:AT:484:SER:O	1.55	1.06
18:B3:1244:U:OP1	32:BM:14:LEU:CD1	2.03	1.06
1:AA:777:A:O2'	11:AK:125:THR:C	1.93	1.06
1:AA:293:G:O3'	1:AA:610:G:C1'	2.02	1.06
18:B3:700:A:OP2	41:BV:115:GLY:HA2	1.52	1.06
32:BM:7:VAL:HB	32:BM:115:LYS:HG2	1.08	1.06
1:AA:1239:A:N7	13:AM:55:HIS:CE1	2.21	1.06
24:BE:110:LEU:HD23	24:BE:171:LEU:H	1.15	1.06
18:B3:1316:G:OP1	42:B0:102:ALA:CB	2.02	1.06
18:B3:948:G:N3	36:BQ:100:LYS:HD2	1.41	1.06
18:B3:107:U:C1'	44:BX:56:THR:HA	1.85	1.06
18:B3:1003:U:P	28:BI:90:ARG:NE	2.28	1.06
18:B3:2846:C:C3'	22:BC:174:LYS:HE3	1.84	1.06
18:B3:2135:A:N1	18:B3:2239:C:N4	2.02	1.06
26:BG:159:ILE:CD1	31:BL:40:ARG:HD2	1.85	1.06
18:B3:1800:G:C1'	35:BP:88:LEU:HB3	1.78	1.06
18:B3:1785:G:C2'	18:B3:2733:U:OP1	2.03	1.06
10:AJ:70:THR:O	14:AN:39:ARG:CA	2.01	1.06
1:AA:402:G:H5''	5:AD:108:ARG:HH22	0.94	1.06
1:AA:363:A:O3'	12:AL:50:LYS:CG	2.03	1.06
1:AA:59:A:O3'	1:AA:388:G:H2'	1.15	1.06
27:BH:107:ASP:HB2	27:BH:127:PRO:HA	1.34	1.06
27:BH:63:LYS:HE2	32:BM:129:LYS:HD2	1.37	1.06
18:B3:2853:U:H5''	22:BC:170:LEU:HG	1.30	1.06
18:B3:82:C:C1'	40:BU:75:ARG:NH1	2.17	1.06
1:AA:21:G:O4'	1:AA:885:G:C5'	2.04	1.06
41:BV:111:ILE:HD11	41:BV:129:VAL:HB	1.37	1.06
1:AA:55:A:N3	2:AT:67:GLY:O	1.87	1.06
1:AA:1309:G:H3'	13:AM:92:ILE:HG13	1.26	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1296:C:C5'	13:AM:53:ASP:N	2.16	1.06
18:B3:539:G:OP1	42:B0:23:ASP:HB2	1.53	1.06
18:B3:945:U:H5'	25:BF:128:LEU:CD1	1.84	1.06
19:B4:98:C:O2'	25:BF:222:PHE:CD1	1.92	1.06
18:B3:1206:C:C2'	18:B3:1207:A:O5'	1.95	1.06
22:BC:237:LEU:HB3	22:BC:238:PRO:HA	1.38	1.06
18:B3:2654:C:C2'	22:BC:259:VAL:HG13	1.85	1.06
26:BG:161:LEU:CD2	31:BL:3:TYR:OH	2.00	1.06
18:B3:1786:C:H2'	18:B3:2883:A:H5''	1.37	1.06
18:B3:1675:C:C5'	39:BT:113:VAL:O	2.02	1.06
5:AD:143:ILE:HG23	5:AD:146:PHE:HB2	1.36	1.06
1:AA:66:G:H5'	1:AA:173:U:N3	1.66	1.06
1:AA:68:G:OP1	1:AA:172:A:H5'	1.52	1.06
18:B3:1115:U:C1'	18:B3:1224:G:O2'	1.92	1.06
32:BM:8:ILE:HD12	32:BM:18:LEU:HD11	1.35	1.06
1:AA:778:G:C3'	11:AK:126:ARG:HD2	1.86	1.06
18:B3:2403:C:H2'	36:BQ:69:LYS:HD2	1.31	1.06
6:AE:151:HIS:HB3	6:AE:193:GLU:HB2	1.36	1.06
13:AM:92:ILE:N	13:AM:109:LEU:HD11	1.64	1.06
13:AM:91:ASP:HB3	13:AM:113:LEU:HD12	1.36	1.06
1:AA:1315:U:O4	17:AS:49:MET:HB3	1.55	1.06
18:B3:541:C:H6	42:B0:15:LYS:CB	1.68	1.06
18:B3:618:G:H2'	42:B0:41:VAL:HG23	1.07	1.06
18:B3:539:G:C2	42:B0:50:ILE:HD13	1.90	1.06
19:B4:69:U:C2'	24:BE:14:SER:HB2	1.85	1.06
19:B4:51:A:N1	24:BE:58:LYS:HG2	1.16	1.06
18:B3:677:C:OP1	23:BD:121:THR:CG2	2.03	1.06
34:BO:81:VAL:HG12	34:BO:138:LEU:HB2	1.35	1.06
18:B3:721:A:C5'	34:BO:71:LEU:HB3	1.85	1.06
18:B3:1184:A:H4'	30:BK:86:LYS:HB2	1.36	1.06
21:BB:177:PRO:CB	47:B9:22:ARG:HH11	1.66	1.06
25:BF:177:ILE:HD12	25:BF:178:LEU:HD12	1.28	1.06
1:AA:129:U:O3'	16:AQ:127:CYS:CA	2.03	1.06
18:B3:487:G:O5'	40:BU:90:VAL:CB	2.04	1.06
18:B3:107:U:H6	44:BX:60:GLU:CA	1.67	1.06
18:B3:2763:G:H4'	37:BR:84:SER:H	1.10	1.06
18:B3:2654:C:H1'	22:BC:259:VAL:HG12	1.11	1.06
22:BC:359:ASP:CA	38:BS:16:GLY:H	1.67	1.06
26:BG:159:ILE:HD11	31:BL:40:ARG:HD2	1.35	1.06
29:BJ:75:ALA:HA	29:BJ:78:ILE:HG13	1.36	1.06
10:AJ:70:THR:OG1	14:AN:36:ASN:HB3	0.90	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:76:SER:OG	14:AN:27:THR:HG23	0.89	1.06
1:AA:401:C:H5''	5:AD:78:ARG:HG3	1.29	1.06
1:AA:64:G:N2	1:AA:73:C:C4	2.23	1.06
18:B3:1118:A:H4'	18:B3:1228:C:N4	1.69	1.06
1:AA:1343:G:O3'	9:AI:136:ARG:CB	2.03	1.06
1:AA:866:C:H5'	1:AA:1079:G:N1	1.63	1.06
18:B3:699:C:OP2	41:BV:115:GLY:N	1.88	1.06
18:B3:1235:G:O6	32:BM:69:PRO:HD3	1.54	1.06
18:B3:2434:A:OP1	46:BZ:35:PHE:CB	2.03	1.06
34:BO:95:GLU:HG3	34:BO:97:PRO:HD2	1.38	1.06
23:BD:11:THR:HG23	23:BD:13:GLU:H	1.11	1.06
1:AA:988:G:C4'	1:AA:1014:A:O5'	2.04	1.06
1:AA:989:C:H5'	1:AA:1013:G:C1'	1.86	1.06
1:AA:1301:U:C5'	13:AM:30:TYR:CA	2.33	1.06
18:B3:2060:A:O2'	42:B0:24:ARG:CD	2.03	1.06
19:B4:47:A:C4'	24:BE:160:PHE:HE2	1.69	1.06
33:BN:63:ASN:HB2	33:BN:66:ILE:HG12	1.38	1.06
18:B3:448:G:C2	23:BD:47:GLN:CG	2.07	1.06
18:B3:517:U:C2'	18:B3:1319:G:H22	1.67	1.06
18:B3:658:C:H5'	23:BD:119:TYR:OH	1.54	1.06
18:B3:678:G:H8	23:BD:259:GLN:CG	1.69	1.06
18:B3:635:A:C5'	23:BD:91:ASN:ND2	2.16	1.06
31:BL:82:LYS:HE3	46:BZ:49:PHE:CA	1.82	1.06
18:B3:1164:U:C5'	30:BK:47:ALA:O	2.03	1.06
18:B3:1163:G:O6	30:BK:51:LYS:CE	2.01	1.06
18:B3:2441:U:O3'	41:BV:61:HIS:CE1	2.07	1.06
1:AA:537:G:H5''	12:AL:143:PRO:HG2	1.33	1.06
18:B3:106:A:O2'	44:BX:57:VAL:CA	2.03	1.06
18:B3:2489:G:C2'	18:B3:2490:A:N7	2.19	1.06
22:BC:42:LEU:HD22	22:BC:202:VAL:HG21	1.38	1.06
18:B3:2657:G:OP1	22:BC:19:LYS:CA	2.01	1.06
22:BC:260:MET:HB3	32:BM:66:THR:HG21	1.07	1.06
31:BL:18:LEU:HD12	31:BL:21:LEU:HD21	1.38	1.06
18:B3:265:U:C5'	31:BL:55:LYS:HZ2	1.56	1.06
18:B3:124:C:C6	39:BT:88:LYS:HD2	1.91	1.06
14:AN:23:CYS:HB3	14:AN:37:ILE:HA	1.37	1.06
1:AA:713:G:C2	11:AK:124:SER:C	2.29	1.06
1:AA:143:A:H4'	1:AA:199:G:H2'	1.29	1.06
18:B3:1131:G:C5	18:B3:2523:U:H5'	1.91	1.06
40:BU:60:ARG:HB2	40:BU:103:LYS:HB2	1.38	1.06
1:AA:13:U:H4'	1:AA:913:A:O2'	1.55	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:903:U:OP2	41:BV:14:VAL:HG21	1.56	1.06
1:AA:1340:A:C2'	9:AI:141:TYR:CZ	2.39	1.06
18:B3:1467:C:OP1	31:BL:33:ASN:OD1	1.70	1.06
1:AA:1329:A:O4'	13:AM:98:TYR:CD1	2.07	1.05
1:AA:988:G:H4'	1:AA:1014:A:O5'	1.54	1.05
1:AA:1299:A:N6	13:AM:55:HIS:ND1	2.04	1.05
42:B0:79:VAL:HG23	42:B0:109:LEU:HD22	1.34	1.05
18:B3:1316:G:P	42:B0:102:ALA:CB	2.43	1.05
18:B3:1306:U:H5'	23:BD:195:ASN:ND2	1.71	1.05
25:BF:206:LEU:HD11	25:BF:242:MET:HA	1.34	1.05
1:AA:255:G:H5''	16:AQ:81:ARG:HB3	1.27	1.05
18:B3:2671:U:H5'	22:BC:178:ALA:HA	1.31	1.05
22:BC:69:ARG:CD	37:BR:89:ASP:CB	2.23	1.05
18:B3:433:C:C5'	31:BL:149:TRP:CZ3	2.39	1.05
18:B3:1812:G:H1'	18:B3:2732:U:O3'	1.53	1.05
18:B3:2167:A:N6	20:BA:60:ARG:NH2	2.04	1.05
14:AN:20:CYS:HB2	14:AN:29:LEU:HG	1.37	1.05
1:AA:400:C:H4'	5:AD:77:ILE:HD11	1.37	1.05
5:AD:85:VAL:HG13	5:AD:86:LEU:HD22	1.36	1.05
40:BU:111:LEU:HA	40:BU:116:LYS:HE3	1.37	1.05
1:AA:1501:C:H5''	1:AA:1508:G:O2'	1.40	1.05
1:AA:125:U:H5'	1:AA:291:C:C4'	1.85	1.05
18:B3:882:A:H1'	45:BY:2:LYS:HG2	1.07	1.05
18:B3:951:A:H5''	36:BQ:43:LYS:CD	1.84	1.05
24:BE:75:LEU:HD21	24:BE:109:THR:HG23	1.38	1.05
18:B3:501:G:C1'	33:BN:16:ALA:HB2	1.86	1.05
18:B3:449:A:C4'	18:B3:1306:U:C5	2.37	1.05
21:BB:101:LEU:HD11	21:BB:105:SER:HB2	1.34	1.05
21:BB:27:LYS:HA	21:BB:122:ARG:HD2	1.38	1.05
47:B9:54:TRP:HE1	47:B9:70:VAL:HG23	1.16	1.05
18:B3:1855:G:O6	21:BB:150:PRO:HD2	1.53	1.05
18:B3:1067:A:OP1	25:BF:96:PRO:CG	2.04	1.05
18:B3:2468:A:C4	46:BZ:55:PRO:HG3	1.90	1.05
18:B3:967:U:O2'	28:BI:34:TYR:CE2	2.08	1.05
31:BL:188:LYS:HA	31:BL:188:LYS:HE3	1.37	1.05
18:B3:2737:C:O3'	35:BP:58:SER:C	1.95	1.05
18:B3:1566:C:C5'	35:BP:57:HIS:CE1	2.39	1.05
18:B3:921:G:H5'	41:BV:42:ILE:N	1.54	1.05
18:B3:2333:G:O2'	29:BJ:113:ILE:O	1.73	1.05
29:BJ:87:GLU:HG2	29:BJ:90:LEU:HG	1.31	1.05
18:B3:1673:U:H1'	39:BT:91:LYS:N	1.18	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:464:LEU:HB3	2:AT:510:ARG:HA	1.05	1.05
2:AT:140:GLU:CG	2:AT:481:MET:CA	2.25	1.05
27:BH:54:LYS:HE3	27:BH:54:LYS:HA	1.39	1.05
1:AA:920:U:C4'	1:AA:1080:A:C1'	2.33	1.05
18:B3:1402:G:OP1	43:BW:62:GLY:HA3	1.54	1.05
43:BW:15:LEU:HA	43:BW:19:LEU:HD12	1.06	1.05
18:B3:2408:A:C1'	46:BZ:19:HIS:CD2	2.27	1.05
1:AA:1406:U:O2	1:AA:1517:G:O2'	1.74	1.05
1:AA:754:C:H1'	15:AO:127:TYR:CD2	1.91	1.05
11:AK:26:PHE:HE1	11:AK:39:ALA:HB1	1.21	1.05
18:B3:375:G:N2	18:B3:411:A:C8	2.17	1.05
1:AA:1307:U:C4	13:AM:94:ASP:OD1	2.08	1.05
13:AM:126:ARG:NH1	17:AS:121:ILE:HG13	1.70	1.05
19:B4:47:A:H4'	24:BE:160:PHE:HE2	1.13	1.05
19:B4:49:G:O5'	24:BE:158:ARG:HG2	1.56	1.05
18:B3:1018:A:O2'	36:BQ:60:LYS:HB3	1.54	1.05
1:AA:319:G:C1'	1:AA:1434:A:N1	2.18	1.05
18:B3:677:C:O2'	23:BD:259:GLN:HB3	1.50	1.05
1:AA:132:C:C2	1:AA:263:A:N3	2.25	1.05
18:B3:1056:U:C4'	28:BI:8:CYS:HB3	1.74	1.05
18:B3:1055:G:H1'	28:BI:111:LEU:HB2	1.37	1.05
18:B3:2245:C:O2	18:B3:2256:G:N2	1.88	1.05
18:B3:1816:C:C6	18:B3:2746:A:N3	2.25	1.05
10:AJ:70:THR:HA	14:AN:42:PHE:CA	1.86	1.05
5:AD:91:LYS:N	6:AE:173:ARG:O	1.90	1.05
1:AA:402:G:H4'	1:AA:620:C:H2'	1.06	1.05
1:AA:552:U:OP1	12:AL:108:GLY:O	1.72	1.05
1:AA:66:G:N2	1:AA:69:G:C4	2.25	1.05
1:AA:1071:C:OP1	6:AE:90:ARG:CA	2.05	1.05
18:B3:1232:A:H2'	18:B3:2524:G:O3'	1.55	1.05
18:B3:2381:C:C1'	46:BZ:10:TYR:CG	2.39	1.05
1:AA:581:G:OP1	15:AO:119:SER:CB	2.04	1.05
6:AE:107:ASN:CG	6:AE:143:TRP:H	1.53	1.05
1:AA:1309:G:C5	13:AM:92:ILE:HG22	1.83	1.05
1:AA:1300:G:P	13:AM:26:ILE:HD11	1.97	1.05
1:AA:1331:G:C5	13:AM:41:ARG:HB2	1.91	1.05
18:B3:541:C:H3'	42:B0:15:LYS:HB2	1.29	1.05
18:B3:629:A:H5''	42:B0:38:ILE:CG2	1.85	1.05
18:B3:540:A:H5''	42:B0:17:PHE:CA	1.86	1.05
10:AJ:93:LEU:HD23	10:AJ:99:ILE:HD13	1.39	1.05
1:AA:335:C:H2'	1:AA:1433:A:H2'	1.06	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1309:U:O3'	23:BD:203:GLY:CA	2.03	1.05
21:BB:167:VAL:HG21	47:B9:74:ALA:O	1.54	1.05
21:BB:47:ILE:HD11	47:B9:53:ILE:CD1	1.86	1.05
18:B3:1733:A:C1'	22:BC:225:PHE:CE1	2.34	1.05
18:B3:2762:C:O2'	37:BR:83:LYS:CD	2.03	1.05
18:B3:2312:G:C5'	28:BI:22:TYR:CD1	2.16	1.05
26:BG:157:ASP:HB2	26:BG:159:ILE:HG12	1.33	1.05
18:B3:2738:G:H8	35:BP:59:LYS:NZ	1.46	1.05
18:B3:2214:A:N1	20:BA:105:LYS:NZ	2.05	1.05
18:B3:2165:G:O2'	20:BA:33:GLU:CG	2.04	1.05
5:AD:91:LYS:CA	6:AE:174:GLY:HA3	1.84	1.05
6:AE:170:PRO:HD2	8:AH:96:ARG:HB2	1.33	1.05
1:AA:402:G:H5''	5:AD:108:ARG:NH2	1.71	1.05
1:AA:560:U:O2	1:AA:563:A:H4'	1.56	1.05
2:AT:464:LEU:CB	2:AT:510:ARG:HA	1.87	1.05
41:BV:126:ALA:H	41:BV:145:GLU:HB2	1.16	1.05
1:AA:518:C:HO2'	12:AL:66:SER:C	1.59	1.05
1:AA:1329:A:C5	13:AM:97:ASP:OD1	2.09	1.05
1:AA:1319:A:C8	17:AS:49:MET:HE1	1.88	1.05
1:AA:1301:U:O2'	13:AM:29:VAL:HG21	1.55	1.05
1:AA:1318:A:C6	17:AS:56:PHE:CZ	2.43	1.05
1:AA:1318:A:C4	17:AS:56:PHE:HE1	1.64	1.05
23:BD:103:LYS:HE2	23:BD:106:ARG:HB3	1.37	1.05
34:BO:80:THR:HB	34:BO:101:VAL:HG13	1.06	1.05
18:B3:1847:A:C8	21:BB:180:LYS:HB3	1.91	1.05
1:AA:190(E):U:C5'	16:AQ:109:HIS:CD2	2.39	1.05
1:AA:190(E):U:H4'	16:AQ:109:HIS:CD2	1.53	1.05
18:B3:67:A:O5'	44:BX:55:LEU:CD2	2.02	1.05
18:B3:107:U:H1'	44:BX:56:THR:CG2	1.86	1.05
18:B3:68:U:O4'	44:BX:55:LEU:CB	1.96	1.05
22:BC:92:VAL:HG23	22:BC:101:LEU:HD11	1.39	1.05
18:B3:2519:C:H1'	28:BI:158:LYS:HA	1.09	1.05
28:BI:30:LYS:HG3	28:BI:66:GLU:HG3	1.36	1.05
20:BA:43:PRO:CD	20:BA:132:GLY:HA3	1.85	1.05
1:AA:619:U:C2'	5:AD:129:ILE:CD1	2.32	1.05
1:AA:102:G:C1'	1:AA:151:A:O2'	2.03	1.05
37:BR:32:ARG:HB2	37:BR:64:LYS:HB3	1.08	1.05
1:AA:677:U:C5	11:AK:121:PRO:HG2	1.92	1.05
1:AA:1071:C:P	6:AE:90:ARG:HG2	1.97	1.05
18:B3:1501:A:H5''	35:BP:37:ARG:HD3	1.35	1.05
18:B3:78:G:O2'	40:BU:27:ARG:NH2	1.90	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:292:G:O2'	1:AA:608:A:N7	1.90	1.05
4:AC:171:THR:HG22	4:AC:184:LYS:HD3	1.33	1.05
1:AA:1314:C:C5	17:AS:49:MET:O	2.10	1.04
1:AA:1220:G:HO2'	17:AS:95:GLY:C	1.61	1.04
18:B3:844:A:C5'	33:BN:133:GLY:HA2	1.84	1.04
18:B3:882:A:C5'	45:BY:2:LYS:HA	1.86	1.04
18:B3:537:G:O3'	42:B0:21:HIS:NE2	1.90	1.04
18:B3:541:C:C6	42:B0:15:LYS:CB	2.39	1.04
1:AA:1176:A:C2'	9:AI:107:ALA:HA	1.87	1.04
18:B3:2328:U:OP1	24:BE:153:THR:OG1	1.72	1.04
19:B4:117:G:O2'	24:BE:69:ILE:HG22	1.54	1.04
24:BE:184:ASP:HA	24:BE:187:THR:HG23	1.39	1.04
1:AA:320:C:H5'	1:AA:1435:G:H21	1.19	1.04
18:B3:2660:G:P	33:BN:71:GLN:NE2	2.29	1.04
18:B3:751:U:C4'	23:BD:36:THR:HG21	1.87	1.04
21:BB:179:LEU:HD23	47:B9:20:SER:CB	1.83	1.04
18:B3:1285:U:C3'	25:BF:155:ILE:HG23	1.86	1.04
18:B3:949:U:O4'	36:BQ:100:LYS:HB2	1.28	1.04
18:B3:2038:A:OP1	37:BR:47:ASN:CG	1.94	1.04
31:BL:46:LYS:HD2	31:BL:118:TYR:HE1	1.18	1.04
18:B3:1816:C:N1	18:B3:2746:A:N3	2.05	1.04
18:B3:1809:G:H5''	18:B3:2866:U:OP1	1.57	1.04
18:B3:2335:C:C6	29:BJ:116:ASP:CG	2.15	1.04
18:B3:1449:G:C5'	39:BT:110:ASN:ND2	2.19	1.04
1:AA:615:C:O4'	5:AD:149:ARG:NH1	1.69	1.04
18:B3:165:A:C5'	41:BV:31:ARG:H	1.69	1.04
32:BM:125:VAL:HA	32:BM:128:LEU:HD11	1.11	1.04
18:B3:1383:U:HO2'	43:BW:32:VAL:CG1	1.65	1.04
35:BP:43:LEU:HG	35:BP:49:ILE:HG13	1.05	1.04
18:B3:2381:C:H1'	46:BZ:10:TYR:CG	1.92	1.04
1:AA:1496:C:O2	1:AA:1518:A:C4	2.10	1.04
1:AA:1343:G:C4'	9:AI:138:GLN:HA	1.86	1.04
1:AA:913:A:OP2	12:AL:62:LYS:NZ	1.88	1.04
29:BJ:133:PRO:HG2	29:BJ:135:ALA:H	1.19	1.04
1:AA:1302:U:C3'	13:AM:54:LEU:HD21	1.74	1.04
36:BQ:40:VAL:HG13	36:BQ:97:LYS:HA	1.09	1.04
18:B3:552:A:H5'	42:B0:118:LYS:HE3	1.36	1.04
18:B3:111:C:C4'	18:B3:119:A:N6	2.19	1.04
18:B3:1855:G:C6	21:BB:150:PRO:CD	2.39	1.04
21:BB:115:VAL:HG22	21:BB:125:LEU:HB2	1.39	1.04
1:AA:131:C:C4'	1:AA:264:U:H4'	1.82	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(F):G:OP1	16:AQ:81:ARG:NH1	1.89	1.04
18:B3:2764:C:OP1	37:BR:13:ILE:HA	1.56	1.04
18:B3:967:U:H1'	28:BI:34:TYR:HE2	1.19	1.04
18:B3:1814:G:N3	18:B3:2733:U:H6	1.56	1.04
18:B3:1785:G:H1	18:B3:2884:G:H5'	1.19	1.04
18:B3:1673:U:O3'	39:BT:94:ILE:HD12	1.56	1.04
3:AB:123:THR:HB	3:AB:173:TRP:HZ2	1.21	1.04
18:B3:2704:C:C2	27:BH:121:LYS:HD2	1.91	1.04
27:BH:103:ILE:HD13	27:BH:134:ILE:HB	1.05	1.04
27:BH:12:VAL:HG13	27:BH:13:PRO:HD3	1.38	1.04
18:B3:2460:A:O2'	46:BZ:60:LYS:CG	2.04	1.04
1:AA:1345:U:N3	7:AG:76:TYR:CE1	2.24	1.04
1:AA:1496:C:C4	1:AA:1517:G:N2	1.95	1.04
1:AA:1344:C:P	9:AI:136:ARG:CB	2.44	1.04
1:AA:1301:U:H5'	13:AM:30:TYR:N	1.70	1.04
1:AA:1220:G:H2'	17:AS:78:THR:O	1.26	1.04
13:AM:17:LEU:HD21	13:AM:69:ILE:HD12	1.40	1.04
9:AI:97:ASP:H	9:AI:104:LEU:HB2	1.18	1.04
24:BE:65:ILE:HG21	24:BE:73:VAL:HG23	1.38	1.04
19:B4:47:A:H5'	24:BE:153:THR:C	1.77	1.04
18:B3:1010:C:H4'	24:BE:15:ARG:HG3	1.34	1.04
18:B3:493:U:C4'	33:BN:99:ALA:HB1	1.86	1.04
18:B3:1874:U:C4	21:BB:124:ALA:HB1	1.91	1.04
18:B3:1206:C:N3	18:B3:1207:A:C4	1.75	1.04
18:B3:2912:C:H42	22:BC:125:LYS:HA	1.21	1.04
18:B3:2166:G:O6	20:BA:61:PRO:CA	2.05	1.04
18:B3:2165:G:C4	20:BA:207:LYS:HE2	1.92	1.04
18:B3:1943:C:H4'	21:BB:218:ILE:HD11	1.08	1.04
1:AA:619:U:O2'	5:AD:129:ILE:CG1	2.06	1.04
1:AA:553:A:N3	12:AL:46:SER:HA	1.70	1.04
1:AA:31:G:N3	1:AA:47:C:OP1	1.89	1.04
27:BH:116:ASN:HB3	27:BH:119:GLY:HA2	1.06	1.04
18:B3:906:C:C2	18:B3:1329:A:N9	2.22	1.04
41:BV:117:ILE:HG22	41:BV:118:PRO:HA	1.35	1.04
32:BM:25:GLN:HG2	32:BM:30:GLN:HB2	1.37	1.04
5:AD:113:VAL:HG23	5:AD:125:ALA:HB1	1.31	1.04
18:B3:777:U:H1'	45:BY:12:ASN:HD21	1.23	1.04
18:B3:620:A:H4'	42:B0:40:SER:HB2	1.32	1.04
18:B3:2413:A:H1'	24:BE:174:PRO:CA	1.87	1.04
19:B4:50:G:C2'	24:BE:93:THR:N	2.12	1.04
24:BE:110:LEU:HG	24:BE:171:LEU:HB2	1.39	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2413:A:H2'	24:BE:174:PRO:HB3	1.38	1.04
18:B3:35:U:H5''	23:BD:104:THR:CB	1.88	1.04
18:B3:170:U:OP1	31:BL:82:LYS:HB2	1.57	1.04
19:B4:85:A:O2'	25:BF:228:PHE:CZ	2.09	1.04
18:B3:1086:A:N6	25:BF:92:ASN:ND2	1.73	1.04
18:B3:2283:G:N7	28:BI:106:ALA:CB	2.21	1.04
18:B3:2829:G:O4'	22:BC:128:ALA:N	1.79	1.04
18:B3:2719:A:H2	37:BR:91:VAL:HG13	1.22	1.04
18:B3:2819:C:C4'	22:BC:99:ARG:O	2.04	1.04
22:BC:84:VAL:HG12	22:BC:201:THR:HG23	1.33	1.04
18:B3:1566:C:H4'	35:BP:56:VAL:HG12	1.34	1.04
18:B3:124:C:C6	39:BT:88:LYS:NZ	2.26	1.04
1:AA:1059:C:H4'	14:AN:40:GLN:HE22	1.17	1.04
1:AA:523:A:C2	12:AL:115:GLY:N	2.26	1.04
27:BH:71:VAL:HG21	32:BM:127:ARG:HH12	1.20	1.04
1:AA:1071:C:P	6:AE:90:ARG:CG	2.41	1.04
41:BV:80:LEU:HD23	41:BV:81:ILE:HG12	1.39	1.04
18:B3:1882:C:OP2	21:BB:199:ARG:C	1.96	1.04
4:AC:105:LYS:HD3	4:AC:174:VAL:HG23	1.37	1.04
1:AA:1349:A:H5''	9:AI:135:SER:HB3	1.36	1.04
16:AQ:78:LYS:HE2	16:AQ:78:LYS:HA	1.36	1.04
1:AA:1219:U:O3'	17:AS:59:LYS:N	1.90	1.04
7:AG:111:ARG:HH21	9:AI:41:GLU:CB	1.64	1.04
19:B4:48:C:C3'	24:BE:158:ARG:HG2	1.83	1.04
18:B3:1309:U:OP2	23:BD:203:GLY:O	1.75	1.04
18:B3:670:G:H22	23:BD:231:SER:CA	1.71	1.04
18:B3:1348:A:O3'	23:BD:35:HIS:O	1.76	1.04
18:B3:1872:C:N3	21:BB:22:ARG:HG2	1.73	1.04
25:BF:167:ILE:HG21	25:BF:183:LEU:HD11	1.39	1.04
18:B3:1098:A:P	25:BF:216:PRO:HB3	1.96	1.04
18:B3:107:U:C1'	44:BX:56:THR:CA	2.33	1.04
18:B3:1733:A:H1'	22:BC:225:PHE:HD1	0.97	1.04
18:B3:2064:U:O3'	22:BC:256:PRO:HA	1.54	1.04
18:B3:2093:G:H1'	22:BC:252:GLY:O	0.87	1.04
18:B3:2136:G:N2	18:B3:2238:A:N1	2.01	1.04
18:B3:2166:G:O6	20:BA:61:PRO:CG	2.06	1.04
27:BH:41:ILE:HG22	32:BM:126:LEU:HD23	1.07	1.04
18:B3:2408:A:C2'	46:BZ:19:HIS:CD2	2.41	1.04
18:B3:80:A:H4'	40:BU:73:VAL:CG1	1.87	1.04
1:AA:866:C:C5'	1:AA:1079:G:H1	1.69	1.04
1:AA:1502:A:OP2	1:AA:1508:G:O4'	1.74	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:987:G:C5	17:AS:77:ARG:HD3	1.92	1.03
18:B3:538:C:C4	42:B0:21:HIS:CE1	2.44	1.03
34:BO:40:THR:HG21	34:BO:133:LYS:HB2	1.39	1.03
18:B3:670:G:N2	23:BD:231:SER:CA	2.20	1.03
34:BO:59:ARG:HG2	34:BO:60:PRO:HA	1.36	1.03
18:B3:1067:A:P	25:BF:96:PRO:HG2	1.96	1.03
1:AA:190(E):U:C2	16:AQ:131:SER:HB3	1.90	1.03
18:B3:1206:C:O2'	18:B3:1207:A:O5'	1.73	1.03
22:BC:69:ARG:HD2	37:BR:88:ARG:HD2	1.04	1.03
18:B3:155:C:OP2	31:BL:190:TRP:CE2	2.11	1.03
18:B3:1786:C:N3	18:B3:2883:A:C4'	2.03	1.03
18:B3:1508:C:C4'	39:BT:77:ASP:HB2	1.87	1.03
39:BT:81:LEU:HB2	39:BT:122:TYR:HB2	1.40	1.03
10:AJ:70:THR:N	14:AN:42:PHE:HB3	1.73	1.03
10:AJ:82:TYR:OH	14:AN:43:ARG:NH1	1.90	1.03
1:AA:7:G:O4'	1:AA:298:A:H8	1.21	1.03
1:AA:861:G:H5'	8:AH:18:LYS:HE3	1.37	1.03
1:AA:66:G:C2	1:AA:69:G:C6	2.45	1.03
1:AA:66:G:N2	1:AA:69:G:C5	2.26	1.03
18:B3:2705:U:C4'	27:BH:122:LYS:CE	2.32	1.03
18:B3:1383:U:HO2'	43:BW:32:VAL:HG12	0.87	1.03
1:AA:866:C:H5'	1:AA:1079:G:H1	0.88	1.03
1:AA:919:A:H4'	1:AA:1079:G:C2	1.94	1.03
1:AA:568:G:OP1	6:AE:202:LYS:HE2	1.58	1.03
18:B3:906:C:C2	18:B3:1329:A:C4	2.46	1.03
1:AA:499:A:H2	1:AA:546:G:C2'	1.70	1.03
18:B3:399:C:P	31:BL:180:ASN:HB2	1.98	1.03
1:AA:1302:U:C3'	13:AM:54:LEU:HD22	1.71	1.03
18:B3:618:G:C2'	42:B0:41:VAL:CG2	2.35	1.03
18:B3:540:A:O5'	42:B0:15:LYS:HE3	1.30	1.03
1:AA:335:C:C2'	1:AA:1434:A:H8	1.71	1.03
18:B3:501:G:O4'	33:BN:16:ALA:CA	1.92	1.03
18:B3:1309:U:OP1	23:BD:205:LEU:N	1.89	1.03
18:B3:772:G:N3	45:BY:46:TYR:CE2	2.26	1.03
18:B3:1181:A:H4'	30:BK:109:ILE:HG13	1.08	1.03
1:AA:131:C:O5'	16:AQ:128:ARG:CB	1.94	1.03
18:B3:1006:A:O4'	28:BI:16:PRO:HG3	1.52	1.03
31:BL:72:ARG:HD3	31:BL:91:LEU:HD11	1.38	1.03
18:B3:2351:C:N3	29:BJ:115:TYR:HA	1.13	1.03
18:B3:2558:G:C2'	18:B3:2799:A:O2'	2.06	1.03
27:BH:94:TYR:HB3	27:BH:177:ASP:HA	1.41	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1397:C:O3'	35:BP:23:LEU:HB2	1.22	1.03
18:B3:1385:G:OP1	43:BW:36:LYS:HE2	1.58	1.03
1:AA:1497:G:C8	1:AA:1517:G:O6	2.10	1.03
1:AA:1344:C:OP1	9:AI:136:ARG:HD3	1.52	1.03
18:B3:2319:C:OP2	46:BZ:1:VAL:CG2	2.06	1.03
1:AA:1106:G:H5''	4:AC:155:PHE:HE2	1.21	1.03
18:B3:538:C:C2	42:B0:21:HIS:CE1	2.47	1.03
18:B3:622:G:OP2	42:B0:36:LYS:HA	1.57	1.03
19:B4:117:G:C4	24:BE:70:THR:CG2	2.40	1.03
1:AA:319:G:C5	1:AA:1434:A:H2	1.76	1.03
18:B3:516:A:C1'	18:B3:1340:G:C5'	2.29	1.03
23:BD:191:GLY:HA2	23:BD:194:ARG:HD3	1.39	1.03
18:B3:677:C:H1'	23:BD:230:ALA:HA	1.07	1.03
18:B3:1167:G:H8	30:BK:111:GLU:OE2	1.39	1.03
47:B9:48:ARG:HA	47:B9:54:TRP:HB3	1.06	1.03
18:B3:1652:C:H5'	21:BB:174:VAL:CG1	1.88	1.03
18:B3:2763:G:O5'	37:BR:14:SER:HB3	1.58	1.03
18:B3:1055:G:N2	28:BI:108:ALA:HB3	1.73	1.03
28:BI:48:LEU:HD22	28:BI:139:ARG:HB2	1.40	1.03
28:BI:38:LYS:HE2	28:BI:41:ALA:HB3	1.37	1.03
22:BC:358:ILE:CA	38:BS:15:PRO:HB2	1.87	1.03
28:BI:38:LYS:HG2	28:BI:40:LYS:HE3	1.38	1.03
37:BR:80:ARG:H	37:BR:99:ALA:HB3	1.21	1.03
18:B3:925:C:C4'	41:BV:28:PRO:CG	2.35	1.03
20:BA:51:GLY:O	20:BA:54:LYS:O	1.73	1.03
3:AB:66:ILE:HG23	3:AB:70:GLU:HB2	1.40	1.03
12:AL:112:LYS:HG2	12:AL:121:ARG:HA	1.40	1.03
27:BH:129:ARG:HB3	27:BH:153:ASP:HB2	1.41	1.03
18:B3:215:A:O5'	41:BV:58:ARG:HD2	1.56	1.03
18:B3:2461:U:O5'	46:BZ:60:LYS:CG	1.92	1.03
1:AA:1344:C:OP1	9:AI:136:ARG:CB	2.07	1.03
41:BV:90:LEU:HD13	41:BV:96:GLU:HG3	1.33	1.03
1:AA:1503:A:N7	1:AA:1531:A:C2	2.25	1.03
33:BN:127:ARG:H	33:BN:138:TYR:H	1.04	1.03
1:AA:1318:A:N3	17:AS:56:PHE:CD1	2.27	1.03
9:AI:100:SER:HA	9:AI:116:LEU:HD22	1.37	1.03
18:B3:2050:G:O2'	33:BN:85:LYS:HD2	1.56	1.03
18:B3:745:G:O6	34:BO:65:SER:HB3	1.58	1.03
18:B3:1316:G:OP1	42:B0:102:ALA:N	1.91	1.03
18:B3:53:C:C5'	18:B3:121:U:H3'	1.85	1.03
18:B3:693:A:C4'	41:BV:59:TYR:CZ	2.23	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1285:U:C4'	25:BF:155:ILE:CD1	2.04	1.03
25:BF:126:LEU:HB3	25:BF:135:TYR:HE1	1.21	1.03
1:AA:190(E):U:O5'	16:AQ:109:HIS:HB3	1.58	1.03
1:AA:190(E):U:O3'	16:AQ:109:HIS:CE1	2.12	1.03
18:B3:72:C:O2'	44:BX:53:CYS:SG	2.17	1.03
18:B3:1055:G:H1'	28:BI:111:LEU:CB	1.80	1.03
22:BC:41:ALA:HA	22:BC:182:LEU:HB3	1.39	1.03
31:BL:161:ARG:HH11	31:BL:164:THR:HA	1.22	1.03
18:B3:793:A:OP1	35:BP:83:THR:CG2	2.05	1.03
20:BA:43:PRO:CD	20:BA:132:GLY:CA	2.37	1.03
20:BA:55:LEU:HD23	20:BA:167:VAL:HA	1.07	1.03
10:AJ:71:PRO:CG	14:AN:36:ASN:CB	2.36	1.03
3:AB:139:ASN:HB2	8:AH:69:ASN:O	1.51	1.03
18:B3:1116:U:C2'	18:B3:1226:G:C8	2.41	1.03
1:AA:143:A:C4'	1:AA:199:G:H2'	1.86	1.03
18:B3:215:A:H5''	41:BV:58:ARG:CG	1.88	1.03
18:B3:903:U:OP2	41:BV:14:VAL:CG2	2.07	1.03
41:BV:97:THR:HG21	41:BV:124:VAL:HG22	1.40	1.03
1:AA:988:G:C6	1:AA:1015:A:N3	2.27	1.03
1:AA:1309:G:H4'	13:AM:91:ASP:CB	1.89	1.03
1:AA:1330:U:C2	13:AM:93:THR:O	2.12	1.03
1:AA:1303:C:N4	13:AM:40:ARG:HH21	1.55	1.03
19:B4:51:A:N3	24:BE:58:LYS:CG	2.10	1.03
19:B4:69:U:O2'	24:BE:14:SER:HB3	1.58	1.03
42:B0:96:ILE:HD13	42:B0:109:LEU:HD12	1.41	1.03
18:B3:679:G:OP1	23:BD:258:ASP:OD2	1.74	1.03
18:B3:1315:G:H21	42:B0:107:VAL:CG1	1.71	1.03
18:B3:1167:G:O2'	30:BK:111:GLU:HA	1.59	1.03
25:BF:152:PHE:HB3	25:BF:200:PHE:HB2	1.40	1.03
1:AA:254:G:C4'	16:AQ:79:MET:HE2	1.85	1.03
22:BC:357:TRP:HB3	38:BS:15:PRO:HB3	1.36	1.03
18:B3:402:U:C4'	31:BL:69:ASN:HD21	1.45	1.03
29:BJ:25:SER:HB2	29:BJ:65:ALA:HB2	1.39	1.03
3:AB:47:ILE:HD13	3:AB:161:CYS:HA	1.36	1.03
12:AL:76:LEU:HD21	12:AL:83:VAL:HG22	1.38	1.03
18:B3:2578:G:O3'	18:B3:2680:A:H5'	1.58	1.03
1:AA:559:A:C8	12:AL:36:THR:CG2	2.41	1.03
1:AA:546:G:O3'	1:AA:548:G:O2'	1.67	1.03
41:BV:82:PRO:HD3	41:BV:120:VAL:HG13	1.38	1.03
18:B3:1885:A:O2'	47:B9:19:SER:CB	2.07	1.03
4:AC:137:VAL:HB	4:AC:149:MET:HG2	1.40	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:11:THR:HG21	23:BD:13:GLU:HG2	1.41	1.03
1:AA:1303:C:C4	13:AM:40:ARG:NH2	2.27	1.02
1:AA:1318:A:H8	17:AS:54:ALA:CB	1.66	1.02
19:B4:69:U:C4'	24:BE:14:SER:CB	2.36	1.02
19:B4:69:U:H4'	24:BE:14:SER:CB	1.88	1.02
19:B4:10:C:N4	36:BQ:26:HIS:HE2	1.56	1.02
18:B3:951:A:H5''	36:BQ:43:LYS:HD2	1.36	1.02
19:B4:119:C:N1	24:BE:71:GLY:O	1.90	1.02
19:B4:48:C:C2'	24:BE:158:ARG:HG3	1.89	1.02
1:AA:335:C:O3'	1:AA:1433:A:O3'	1.69	1.02
18:B3:1370:G:H5'	33:BN:63:ASN:CA	1.88	1.02
18:B3:2087:C:H5'	33:BN:78:THR:HG21	1.41	1.02
23:BD:205:LEU:HG	23:BD:206:VAL:HG23	1.41	1.02
18:B3:678:G:O3'	23:BD:258:ASP:CG	1.96	1.02
18:B3:1343:C:H2'	23:BD:188:ALA:CB	1.89	1.02
18:B3:676:C:O3'	23:BD:233:ASN:HA	0.93	1.02
18:B3:1167:G:H1'	30:BK:107:ASP:O	1.57	1.02
18:B3:1875:A:C3'	21:BB:150:PRO:CB	2.37	1.02
22:BC:261:TRP:HB2	22:BC:263:VAL:HG22	1.36	1.02
18:B3:1055:G:C2	28:BI:108:ALA:CB	2.41	1.02
26:BG:115:VAL:HG13	26:BG:117:GLU:H	1.20	1.02
18:B3:1448:A:O3'	39:BT:110:ASN:CG	1.96	1.02
5:AD:99:LEU:HD12	5:AD:106:GLU:HB2	1.41	1.02
1:AA:1499:A:OP1	1:AA:1521:G:H5''	1.25	1.02
18:B3:2081:A:C2'	32:BM:69:PRO:HG3	1.87	1.02
18:B3:1772:C:H5'	47:B9:15:VAL:HG12	1.04	1.02
18:B3:819:A:O4'	47:B9:13:TYR:OH	1.75	1.02
7:AG:202:LYS:HA	7:AG:205:SER:HB3	1.39	1.02
1:AA:1308:U:OP1	13:AM:145:ARG:CD	2.05	1.02
1:AA:1177:G:C8	9:AI:106:LYS:CG	2.34	1.02
18:B3:26:U:O2'	18:B3:1320:U:H6	1.40	1.02
18:B3:448:G:N2	23:BD:47:GLN:CD	2.11	1.02
18:B3:709:G:H5''	34:BO:43:PRO:HB2	1.41	1.02
18:B3:721:A:H5'	34:BO:72:LYS:H	1.21	1.02
18:B3:1358:A:H2'	23:BD:92:MET:SD	2.00	1.02
18:B3:2274:A:O2'	31:BL:79:THR:N	1.91	1.02
18:B3:1182:U:O4'	30:BK:105:GLN:HA	1.59	1.02
21:BB:56:PRO:CD	47:B9:51:ALA:HB1	1.89	1.02
18:B3:67:A:C5'	44:BX:55:LEU:CD2	2.35	1.02
22:BC:71:VAL:C	37:BR:87:ARG:HH11	1.60	1.02
37:BR:92:PHE:CE1	38:BS:20:LEU:CD2	2.41	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1132:A:O2'	18:B3:2521:A:H5''	1.23	1.02
18:B3:2654:C:C6	22:BC:258:HIS:HB2	1.95	1.02
31:BL:65:VAL:HB	31:BL:66:ARG:HH12	1.19	1.02
18:B3:402:U:C4'	31:BL:69:ASN:CG	2.17	1.02
31:BL:99:ALA:HA	31:BL:168:LYS:HE3	1.41	1.02
18:B3:1805:G:C2	18:B3:2883:A:C5	2.47	1.02
10:AJ:71:PRO:CG	14:AN:36:ASN:HB2	1.88	1.02
39:BT:63:GLU:HB2	39:BT:85:VAL:HB	1.03	1.02
1:AA:560:U:H1'	1:AA:563:A:O4'	0.86	1.02
1:AA:363:A:OP1	12:AL:76:LEU:C	0.83	1.02
37:BR:30:GLY:HA3	37:BR:67:PRO:HG3	1.40	1.02
27:BH:64:HIS:HB2	32:BM:127:ARG:CB	1.84	1.02
1:AA:920:U:H5'	1:AA:1080:A:C5	1.94	1.02
18:B3:79:G:H4'	40:BU:27:ARG:NH1	1.74	1.02
1:AA:751:U:O2'	15:AO:83:ILE:HD11	1.59	1.02
4:AC:104:MET:HG3	4:AC:121:VAL:HG11	1.42	1.02
46:BZ:28:LYS:HA	46:BZ:28:LYS:HE3	1.41	1.02
1:AA:1297:C:H3'	13:AM:56:LYS:HA	1.06	1.02
1:AA:1318:A:C3'	17:AS:54:ALA:CB	2.25	1.02
1:AA:1330:U:OP2	13:AM:97:ASP:HB3	1.58	1.02
1:AA:1249:C:H2'	9:AI:72:GLY:HA2	1.37	1.02
24:BE:64:ILE:HG12	24:BE:109:THR:HG21	1.41	1.02
1:AA:319:G:O2'	1:AA:1435:G:N2	1.90	1.02
18:B3:493:U:H4'	33:BN:99:ALA:HB1	1.39	1.02
18:B3:710:G:C5'	34:BO:44:PHE:CE2	2.42	1.02
18:B3:676:C:C2'	23:BD:231:SER:C	2.25	1.02
21:BB:79:GLU:O	47:B9:65:GLY:N	1.92	1.02
18:B3:1134:G:H5'	18:B3:1229:C:O4'	0.87	1.02
28:BI:49:CYS:HB2	28:BI:168:SER:HA	1.41	1.02
35:BP:100:VAL:HG23	35:BP:101:LEU:HD22	1.35	1.02
29:BJ:70:VAL:HB	29:BJ:71:ARG:HH11	1.21	1.02
29:BJ:53:VAL:HB	29:BJ:56:PHE:HB2	1.37	1.02
10:AJ:74:GLU:O	14:AN:37:ILE:HG23	1.59	1.02
1:AA:25:C:OP2	12:AL:39:LYS:HE3	1.57	1.02
2:AT:144:ARG:HD3	2:AT:482:LYS:HA	1.42	1.02
27:BH:41:ILE:HG21	32:BM:128:LEU:CD1	1.88	1.02
18:B3:1355:A:O2'	18:B3:1356:A:H3'	1.60	1.02
1:AA:1300:G:H3'	13:AM:30:TYR:CE1	1.94	1.02
18:B3:538:C:N1	42:B0:21:HIS:ND1	2.05	1.02
19:B4:29:C:H41	24:BE:57:ASN:CB	1.71	1.02
18:B3:2424:U:H4'	36:BQ:7:TYR:H	1.20	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2050:G:C8	33:BN:82:TRP:HZ3	1.48	1.02
18:B3:672:G:C5'	23:BD:214:ILE:CG2	2.36	1.02
18:B3:29:C:H4'	18:B3:1342:C:P	1.97	1.02
18:B3:1163:G:C4'	30:BK:54:LYS:HB2	1.88	1.02
18:B3:68:U:C4'	44:BX:55:LEU:CB	2.38	1.02
18:B3:2654:C:C5	22:BC:258:HIS:HB2	1.95	1.02
18:B3:2830:U:C5	22:BC:125:LYS:NZ	2.27	1.02
22:BC:52:MET:HE2	22:BC:53:THR:H	1.24	1.02
18:B3:2037:C:C3'	37:BR:47:ASN:ND2	2.07	1.02
22:BC:70:GLU:CB	37:BR:88:ARG:CG	2.25	1.02
18:B3:1733:A:O4'	22:BC:225:PHE:CD1	2.13	1.02
35:BP:101:LEU:HD12	35:BP:137:LEU:HD12	1.42	1.02
18:B3:1676:G:H5''	39:BT:115:PRO:HG3	1.27	1.02
1:AA:5:U:O4	6:AE:172:PRO:HB2	1.59	1.02
18:B3:2579:G:O3'	18:B3:2680:A:C5	2.12	1.02
18:B3:2705:U:C4'	27:BH:122:LYS:HZ3	1.62	1.02
1:AA:359:U:C5'	2:AT:391:LYS:C	2.27	1.02
41:BV:95:LYS:HG2	41:BV:122:VAL:HG12	1.39	1.02
1:AA:518:C:H1'	12:AL:66:SER:O	1.59	1.02
18:B3:1153:C:O5'	18:B3:1155:G:C8	2.11	1.02
18:B3:289:G:H22	18:B3:363:A:H2	1.08	1.02
1:AA:1330:U:H1'	13:AM:93:THR:CA	1.90	1.02
18:B3:616:U:C2'	42:B0:47:ARG:CG	1.92	1.02
19:B4:32:G:N2	24:BE:95:TRP:CH2	2.28	1.02
33:BN:123:LYS:HA	33:BN:142:PRO:HD2	1.37	1.02
18:B3:448:G:H2'	23:BD:195:ASN:HD21	0.88	1.02
23:BD:245:ARG:HD3	23:BD:246:PHE:H	1.23	1.02
18:B3:1184:A:H1'	30:BK:86:LYS:HG3	1.41	1.02
21:BB:118:LYS:HA	21:BB:118:LYS:HE2	1.36	1.02
1:AA:131:C:C6	16:AQ:128:ARG:CG	2.33	1.02
1:AA:190(D):U:O2'	16:AQ:109:HIS:HB3	1.59	1.02
1:AA:232:G:N2	16:AQ:129:PRO:HG2	1.74	1.02
18:B3:2763:G:O5'	37:BR:14:SER:CB	2.07	1.02
18:B3:2845:G:H5''	22:BC:24:ILE:HG22	1.41	1.02
18:B3:2546:U:H3'	22:BC:235:LYS:HG3	1.40	1.02
22:BC:90:GLY:HA3	22:BC:101:LEU:HD12	1.42	1.02
31:BL:163:LEU:HD13	31:BL:164:THR:HG22	1.41	1.02
18:B3:175:G:C2'	31:BL:194:ASN:OD1	2.08	1.02
18:B3:2738:G:P	35:BP:60:SER:OG	2.15	1.02
10:AJ:70:THR:HB	14:AN:41:CYS:N	1.75	1.02
1:AA:402:G:H1'	1:AA:620:C:C5	1.94	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:25:C:H4'	12:AL:109:ARG:NH1	1.74	1.02
2:AT:140:GLU:N	2:AT:481:MET:HG2	1.73	1.02
18:B3:1401:G:H5'	43:BW:59:TRP:HB3	1.42	1.02
1:AA:14:U:H5''	1:AA:915:A:OP2	1.58	1.02
1:AA:292:G:C2'	1:AA:609:A:C5	2.42	1.02
1:AA:546:G:H5'	1:AA:549:C:C5'	1.90	1.02
41:BV:110:LYS:HE2	41:BV:110:LYS:H	1.25	1.02
1:AA:1330:U:H1'	13:AM:93:THR:HA	1.38	1.01
1:AA:1223:C:OP2	17:AS:98:ASN:O	1.69	1.01
1:AA:1241:G:N7	7:AG:187:LYS:HD3	1.75	1.01
18:B3:538:C:N1	42:B0:21:HIS:CE1	2.27	1.01
9:AI:58:LYS:HA	9:AI:61:ASN:HD21	1.25	1.01
19:B4:68:G:N2	24:BE:11:ALA:HB3	1.74	1.01
18:B3:27:U:C2	18:B3:1318:A:C2	2.47	1.01
18:B3:1311:G:C6	23:BD:185:LYS:HB3	1.93	1.01
18:B3:1309:U:O3'	23:BD:203:GLY:HA3	1.57	1.01
18:B3:2100:A:O4'	23:BD:68:ARG:NH1	1.93	1.01
18:B3:1163:G:N1	30:BK:51:LYS:HE2	1.74	1.01
18:B3:1167:G:N3	30:BK:110:ILE:HB	1.66	1.01
21:BB:47:ILE:HG13	47:B9:53:ILE:HG12	1.38	1.01
19:B4:85:A:C4'	25:BF:131:PRO:CB	2.33	1.01
18:B3:2526:C:O2'	18:B3:2605:G:OP1	1.76	1.01
18:B3:72:C:H5''	44:BX:49:LYS:HE3	1.38	1.01
18:B3:2848:G:P	22:BC:173:LYS:HE2	2.00	1.01
18:B3:1002:G:O3'	28:BI:90:ARG:CZ	2.08	1.01
18:B3:2763:G:C4'	37:BR:14:SER:HB2	1.90	1.01
18:B3:2123:A:O5'	31:BL:88:VAL:CG2	2.07	1.01
26:BG:112:ALA:HB3	26:BG:115:VAL:HG12	1.40	1.01
18:B3:919:U:H2'	41:BV:39:HIS:O	1.55	1.01
29:BJ:16:LEU:HD13	29:BJ:70:VAL:HG11	1.41	1.01
18:B3:1676:G:C5'	39:BT:115:PRO:HD3	1.66	1.01
18:B3:2561:C:H5'	18:B3:2777:G:O2'	1.60	1.01
18:B3:906:C:C1'	18:B3:1329:A:H8	1.64	1.01
1:AA:546:G:C5'	1:AA:549:C:H5'	1.89	1.01
18:B3:897:A:OP2	41:BV:26:LYS:CG	2.06	1.01
7:AG:139:THR:HG21	7:AG:174:LEU:HD21	1.42	1.01
1:AA:555:C:OP2	12:AL:38:PHE:CD2	2.14	1.01
1:AA:1329:A:H5'	13:AM:98:TYR:CE2	1.94	1.01
18:B3:1689:A:C2	33:BN:128:THR:CB	2.41	1.01
9:AI:66:VAL:HG21	9:AI:80:ILE:HD12	1.40	1.01
24:BE:65:ILE:HB	24:BE:74:VAL:HA	1.39	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:710:G:OP1	34:BO:43:PRO:HD2	1.60	1.01
23:BD:180:VAL:HG22	23:BD:205:LEU:HD13	1.38	1.01
18:B3:120:A:O2'	45:BY:17:LEU:CD1	2.09	1.01
21:BB:3:VAL:HG13	21:BB:7:GLN:HG3	1.42	1.01
18:B3:67:A:C4'	44:BX:55:LEU:HD22	1.90	1.01
18:B3:2848:G:OP2	22:BC:173:LYS:HD2	1.60	1.01
22:BC:357:TRP:HB3	38:BS:15:PRO:CB	1.87	1.01
22:BC:88:VAL:HG12	22:BC:104:VAL:HG11	1.38	1.01
18:B3:2709:G:H4'	37:BR:125:LEU:HD21	1.40	1.01
18:B3:2668:G:H4'	22:BC:128:ALA:HB1	1.37	1.01
22:BC:92:VAL:HG22	22:BC:154:ALA:HA	1.04	1.01
28:BI:29:SER:HB3	28:BI:31:ILE:HG22	1.42	1.01
29:BJ:87:GLU:HG3	29:BJ:122:PHE:HZ	1.25	1.01
18:B3:2166:G:N7	20:BA:61:PRO:CD	2.24	1.01
10:AJ:78:THR:HB	14:AN:40:GLN:OE1	1.60	1.01
1:AA:12:U:O4'	1:AA:526:C:H5'	1.58	1.01
1:AA:35:G:H4'	12:AL:128:SER:HA	1.42	1.01
1:AA:920:U:O3'	1:AA:1081:G:H4'	1.61	1.01
35:BP:34:ALA:HB1	35:BP:40:ILE:HD11	1.05	1.01
1:AA:1495:U:O2'	18:B3:1962:G:P	2.17	1.01
18:B3:99:A:H1'	40:BU:75:ARG:CZ	1.88	1.01
41:BV:81:ILE:HG21	41:BV:95:LYS:HD2	1.40	1.01
1:AA:949:A:H3'	13:AM:141:THR:OG1	1.59	1.01
1:AA:925:G:C5'	1:AA:1399:C:OP2	2.07	1.01
1:AA:111:G:N3	1:AA:389:A:H5'	1.74	1.01
18:B3:270:U:OP1	18:B3:273:G:H1'	1.60	1.01
1:AA:1330:U:O2'	13:AM:93:THR:HG22	1.58	1.01
1:AA:1224:G:H4'	13:AM:139:LYS:HB2	1.42	1.01
1:AA:1303:C:N4	13:AM:40:ARG:NH2	2.09	1.01
19:B4:46:C:C2'	24:BE:152:ARG:HG3	1.56	1.01
18:B3:449:A:OP2	18:B3:1306:U:C1'	2.09	1.01
23:BD:144:ILE:HG23	23:BD:145:PRO:HD3	1.40	1.01
18:B3:677:C:P	23:BD:232:LEU:O	2.17	1.01
18:B3:2100:A:OP2	23:BD:68:ARG:NH2	1.90	1.01
18:B3:1359:U:H5''	23:BD:91:ASN:CB	1.83	1.01
19:B4:85:A:H5'	25:BF:131:PRO:HB2	1.04	1.01
18:B3:2669:U:O2	22:BC:131:LYS:CD	2.09	1.01
22:BC:48:TYR:CE2	22:BC:49:LYS:HB3	1.95	1.01
18:B3:1800:G:O4'	35:BP:88:LEU:HB3	1.58	1.01
18:B3:1815:A:OP1	18:B3:2751:C:C1'	2.09	1.01
18:B3:2345:A:H5''	29:BJ:48:LYS:HD2	1.03	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:560:U:N3	1:AA:565:U:C5	2.14	1.01
1:AA:622:A:H5'	5:AD:78:ARG:HG2	1.08	1.01
1:AA:62:U:H4'	1:AA:386:C:C6	1.96	1.01
1:AA:1071:C:OP2	6:AE:90:ARG:HG2	0.84	1.01
18:B3:1402:G:P	43:BW:62:GLY:CA	2.49	1.01
18:B3:698:A:OP1	41:BV:132:LEU:HG	0.86	1.01
1:AA:924:C:O2'	1:AA:1398:A:H2'	1.59	1.01
1:AA:1106:G:H5''	4:AC:155:PHE:CE2	1.95	1.01
1:AA:28:G:O2'	1:AA:296:U:OP1	1.78	1.01
18:B3:1165:U:N1	30:BK:44:GLU:OE1	1.94	1.01
1:AA:1321:C:H1'	17:AS:120:SER:H	1.22	1.01
18:B3:882:A:H5'	45:BY:1:GLY:C	1.81	1.01
7:AG:105:LYS:HB3	7:AG:108:LYS:HD3	1.41	1.01
19:B4:47:A:H4'	24:BE:160:PHE:CE2	1.95	1.01
19:B4:49:G:N3	24:BE:93:THR:O	1.94	1.01
36:BQ:45:ASN:HD21	36:BQ:94:GLU:HG2	1.25	1.01
18:B3:764:C:O4'	23:BD:86:GLN:CB	2.00	1.01
18:B3:1168:C:H6	30:BK:114:ARG:NH1	1.40	1.01
18:B3:782:G:C4'	21:BB:189:ARG:HH12	1.73	1.01
1:AA:131:C:H1'	1:AA:264:U:C2	1.96	1.01
18:B3:2819:C:C2'	22:BC:101:LEU:H	1.74	1.01
18:B3:2136:G:N2	18:B3:2238:A:C4	2.29	1.01
31:BL:183:LYS:HA	31:BL:183:LYS:HE2	1.42	1.01
18:B3:2215:A:H5''	20:BA:64:SER:HB3	1.43	1.01
8:AH:99:GLY:HA3	8:AH:129:TYR:HB3	1.42	1.01
1:AA:551:U:O2'	12:AL:105:ALA:HB1	1.61	1.01
18:B3:2705:U:H5''	27:BH:122:LYS:HE3	1.34	1.01
27:BH:42:ASP:CG	32:BM:124:ARG:HA	1.81	1.01
1:AA:877:C:O2	8:AH:3:SER:OG	1.75	1.01
41:BV:74:LEU:HG	41:BV:117:ILE:HG13	1.43	1.01
1:AA:754:C:C4'	15:AO:127:TYR:CD1	2.44	1.01
3:AB:48:ASN:HD21	3:AB:51:LYS:HD2	1.23	1.01
42:B0:66:LEU:HD21	42:B0:70:GLY:HA2	1.42	1.01
1:AA:1301:U:O2'	13:AM:54:LEU:HB3	1.61	1.01
1:AA:1316:G:N1	17:AS:49:MET:HE2	1.74	1.01
18:B3:1074:G:OP1	42:B0:45:ARG:HG2	1.59	1.01
1:AA:1180:A:OP1	9:AI:114:THR:HG21	1.61	1.01
36:BQ:42:ILE:HD13	36:BQ:91:LEU:HD22	1.40	1.01
18:B3:2048:C:H5''	33:BN:68:ARG:HD2	1.40	1.01
18:B3:2660:G:P	33:BN:71:GLN:HE22	1.84	1.01
18:B3:2049:C:OP1	33:BN:81:ARG:HA	1.61	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:27:U:C2	18:B3:1319:G:N3	2.29	1.01
18:B3:664:U:H5'	23:BD:114:HIS:HB3	1.01	1.01
18:B3:760:G:N2	23:BD:101:PRO:HB3	1.76	1.01
47:B9:41:CYS:HB2	47:B9:43:LYS:HD3	1.40	1.01
1:AA:232:G:H22	16:AQ:129:PRO:HG2	1.21	1.01
22:BC:85:VAL:HG12	22:BC:161:VAL:HG12	1.42	1.01
18:B3:1806:G:N2	18:B3:2884:G:C8	2.29	1.01
4:AC:39:ARG:NE	10:AJ:110:PRO:HB3	1.74	1.01
1:AA:860:A:O2'	8:AH:18:LYS:CE	2.09	1.01
1:AA:12:U:H5'	1:AA:526:C:O4'	1.61	1.01
1:AA:25:C:H4'	12:AL:109:ARG:CD	1.90	1.01
18:B3:1745:G:OP1	37:BR:22:ILE:HB	1.57	1.01
18:B3:1118:A:C5	18:B3:1226:G:H3'	1.95	1.01
1:AA:1329:A:H5''	13:AM:98:TYR:CD2	1.91	1.00
1:AA:988:G:C4	1:AA:1015:A:C8	2.49	1.00
1:AA:1221:G:C8	17:AS:79:HIS:HA	1.96	1.00
18:B3:539:G:C4	42:B0:50:ILE:CD1	2.40	1.00
1:AA:1148:U:H5'	9:AI:9:PHE:CZ	1.87	1.00
18:B3:2295:G:C4'	36:BQ:5:HIS:O	2.08	1.00
19:B4:51:A:C2	24:BE:58:LYS:HB3	1.89	1.00
18:B3:1348:A:H5'	23:BD:241:ALA:HB3	1.06	1.00
18:B3:676:C:O2	23:BD:231:SER:CA	2.09	1.00
18:B3:1343:C:C2'	23:BD:188:ALA:CA	2.26	1.00
18:B3:2101:A:C8	23:BD:71:ALA:CA	2.44	1.00
18:B3:1876:C:C2'	21:BB:131:ASN:ND2	2.20	1.00
1:AA:131:C:O3'	1:AA:264:U:C5'	2.08	1.00
1:AA:190(E):U:C5'	16:AQ:130:ILE:CD1	2.38	1.00
18:B3:1055:G:N2	28:BI:108:ALA:CB	2.24	1.00
31:BL:118:TYR:HA	31:BL:129:PHE:CE1	1.96	1.00
18:B3:1786:C:N3	18:B3:2883:A:H4'	1.65	1.00
38:BS:47:ARG:HB2	38:BS:54:LEU:HD22	1.41	1.00
20:BA:57:ASN:ND2	20:BA:155:ILE:HD11	1.75	1.00
39:BT:95:LYS:HD2	39:BT:106:VAL:HG23	1.42	1.00
6:AE:219:ASN:N	8:AH:129:TYR:HD2	1.52	1.00
1:AA:6:G:O4'	1:AA:298:A:O2'	1.76	1.00
27:BH:102:ASN:H	27:BH:113:GLU:HB3	1.22	1.00
18:B3:1118:A:H4'	18:B3:1228:C:C5	1.97	1.00
1:AA:1345:U:C2	7:AG:76:TYR:CE1	2.42	1.00
1:AA:634:C:C2'	16:AQ:92:TYR:OH	2.08	1.00
18:B3:100:C:H1'	40:BU:24:SER:OG	1.51	1.00
18:B3:906:C:N3	18:B3:1329:A:C4	2.29	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:906:C:H1'	18:B3:1329:A:H8	1.07	1.00
21:BB:31:LEU:HD22	21:BB:36:ARG:HG2	1.43	1.00
1:AA:989:C:C1'	1:AA:1015:A:C8	2.43	1.00
13:AM:129:TRP:CH2	17:AS:121:ILE:CD1	2.43	1.00
18:B3:1689:A:C5	33:BN:128:THR:HG23	1.94	1.00
9:AI:98:GLU:HA	9:AI:105:LYS:HB3	1.41	1.00
42:B0:105:ARG:HH22	42:B0:108:ILE:HG23	1.24	1.00
23:BD:165:VAL:HA	23:BD:168:LEU:HD21	1.42	1.00
18:B3:1310:U:H5	23:BD:202:ARG:C	1.63	1.00
18:B3:1352:A:C5'	23:BD:102:THR:HG23	1.67	1.00
18:B3:798:G:H5'	47:B9:9:ILE:CD1	1.90	1.00
18:B3:1830:C:H42	21:BB:180:LYS:CD	1.74	1.00
25:BF:89:LYS:HE3	25:BF:89:LYS:HA	1.42	1.00
18:B3:107:U:C6	44:BX:60:GLU:HA	1.96	1.00
18:B3:2826:G:N3	22:BC:124:SER:HB3	1.72	1.00
22:BC:71:VAL:HG12	37:BR:88:ARG:N	1.76	1.00
18:B3:2283:G:N7	28:BI:106:ALA:HB3	1.75	1.00
18:B3:2712:G:H5'	37:BR:42:SER:HB3	1.21	1.00
18:B3:2135:A:C2	18:B3:2240:U:C4	2.48	1.00
18:B3:155:C:OP2	31:BL:190:TRP:CD2	2.15	1.00
31:BL:50:LEU:HD22	31:BL:117:SER:HA	1.42	1.00
18:B3:2347:C:O5'	29:BJ:46:GLN:HB3	1.19	1.00
18:B3:1118:A:C4'	18:B3:1228:C:H5	1.74	1.00
27:BH:101:VAL:HG13	27:BH:113:GLU:HG3	1.41	1.00
18:B3:1227:C:O4'	32:BM:132:ARG:CZ	2.09	1.00
35:BP:11:ALA:HB3	35:BP:18:LYS:HZ1	1.24	1.00
18:B3:79:G:O4'	40:BU:27:ARG:NH1	1.89	1.00
1:AA:925:G:H5'	1:AA:1399:C:P	2.00	1.00
22:BC:296:SER:HB2	22:BC:300:THR:HG21	1.41	1.00
1:AA:1299:A:H4'	13:AM:26:ILE:CG1	1.91	1.00
1:AA:1319:A:H8	17:AS:49:MET:CE	1.53	1.00
1:AA:987:G:C2	1:AA:1014:A:H1'	1.95	1.00
18:B3:1689:A:N3	33:BN:128:THR:HG23	1.59	1.00
18:B3:618:G:H2'	42:B0:41:VAL:CG2	1.91	1.00
1:AA:1177:G:H5''	9:AI:105:LYS:CD	1.90	1.00
24:BE:106:ALA:HB2	24:BE:166:ALA:HA	1.43	1.00
18:B3:2662:G:O2'	18:B3:2814:A:H2	1.44	1.00
18:B3:1164:U:OP2	30:BK:20:GLY:HA2	1.59	1.00
18:B3:1875:A:H3'	21:BB:150:PRO:CB	1.90	1.00
1:AA:190(D):U:H3	16:AQ:112:PRO:CD	1.73	1.00
18:B3:68:U:H2'	44:BX:55:LEU:HB3	1.04	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2826:G:C2'	22:BC:123:LYS:C	2.18	1.00
22:BC:310:PHE:CD2	22:BC:311:VAL:HG23	1.97	1.00
18:B3:2739:A:OP1	35:BP:61:ARG:NH2	1.94	1.00
3:AB:92:THR:HG22	3:AB:181:LEU:HD21	1.42	1.00
1:AA:1419:G:H21	18:B3:1990:C:H5''	1.24	1.00
27:BH:64:HIS:HB2	32:BM:127:ARG:HB2	1.42	1.00
27:BH:43:VAL:HG12	32:BM:127:ARG:CD	1.90	1.00
1:AA:778:G:C4	11:AK:132:ARG:HG2	1.96	1.00
43:BW:22:VAL:HG11	43:BW:25:LYS:HG2	1.43	1.00
18:B3:99:A:H1'	40:BU:75:ARG:NH1	1.76	1.00
1:AA:55:A:H2	2:AT:68:ILE:N	1.59	1.00
18:B3:1165:U:C6	30:BK:44:GLU:OE1	2.13	1.00
4:AC:107:LYS:HB3	4:AC:112:LEU:HD12	1.37	1.00
1:AA:1300:G:H4'	13:AM:30:TYR:CD1	1.94	1.00
1:AA:1331:G:N7	13:AM:41:ARG:HB3	1.72	1.00
1:AA:1329:A:C5'	13:AM:98:TYR:CE1	2.21	1.00
18:B3:2424:U:C5'	36:BQ:7:TYR:CD2	2.44	1.00
21:BB:171:GLY:HA3	47:B9:67:ALA:HB3	1.44	1.00
18:B3:1099:G:C3'	19:B4:87:U:H3	1.73	1.00
18:B3:2526:C:C4'	18:B3:2605:G:H5''	1.66	1.00
18:B3:69:A:H5''	44:BX:52:ALA:HB1	1.42	1.00
18:B3:2093:G:O2'	22:BC:253:ALA:HB3	1.57	1.00
20:BA:54:LYS:HG2	20:BA:156:LYS:HD2	1.43	1.00
1:AA:66:G:H5''	1:AA:173:U:C2	1.97	1.00
1:AA:143:A:OP2	1:AA:201:C:C6	2.15	1.00
46:BZ:67:VAL:HG12	46:BZ:69:LEU:HD22	1.42	1.00
40:BU:70:ILE:HD11	40:BU:80:VAL:HG11	1.39	1.00
1:AA:546:G:H4'	1:AA:548:G:O2'	1.62	1.00
18:B3:882:A:H1'	45:BY:2:LYS:CG	1.85	1.00
1:AA:1290:G:H5''	7:AG:108:LYS:HE3	1.43	1.00
24:BE:16:PHE:CB	36:BQ:19:PHE:HZ	1.75	1.00
24:BE:75:LEU:HD12	24:BE:113:LEU:HD21	1.44	1.00
18:B3:517:U:H2'	18:B3:1319:G:H22	1.24	1.00
23:BD:112:VAL:HG21	23:BD:117:LYS:HE2	1.43	1.00
18:B3:472:A:O3'	45:BY:48:TRP:CZ2	2.15	1.00
18:B3:1164:U:H5'	30:BK:47:ALA:O	1.58	1.00
47:B9:23:ARG:HB3	47:B9:27:LYS:HG3	1.43	1.00
18:B3:693:A:H5'	41:BV:59:TYR:CD1	1.95	1.00
10:AJ:73:GLY:O	14:AN:25:SER:HB3	1.59	1.00
1:AA:25:C:C4'	12:AL:109:ARG:NH1	2.24	1.00
1:AA:713:G:N2	11:AK:124:SER:C	2.15	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:22:TRP:CD1	35:BP:49:ILE:HA	1.95	1.00
1:AA:1501:C:C5'	1:AA:1508:G:O2'	2.10	1.00
1:AA:117:G:N2	1:AA:122:G:O2'	1.94	1.00
1:AA:562:C:O2	12:AL:32:ARG:HD2	1.61	1.00
19:B4:7:G:OP2	24:BE:28:THR:HB	1.61	1.00
18:B3:1304:U:H5''	23:BD:193:TYR:CZ	1.96	1.00
18:B3:1287:A:C2	25:BF:106:ARG:CD	2.44	1.00
18:B3:265:U:C5'	31:BL:55:LYS:HZ1	1.68	1.00
18:B3:2737:C:OP1	35:BP:62:THR:CG2	2.10	1.00
18:B3:2347:C:C1'	29:BJ:66:VAL:CG1	2.37	1.00
39:BT:75:VAL:HG13	39:BT:81:LEU:HD13	1.41	1.00
6:AE:170:PRO:CD	8:AH:96:ARG:HB2	1.91	1.00
2:AT:536:LEU:HD13	18:B3:2698:G:O2'	1.61	1.00
18:B3:1745:G:H5''	37:BR:22:ILE:HD11	1.40	1.00
18:B3:1232:A:H8	18:B3:2525:G:H5'	1.19	1.00
18:B3:81:G:O2'	40:BU:75:ARG:CG	2.10	1.00
1:AA:1343:G:O4'	9:AI:138:GLN:CA	2.09	1.00
2:AT:749:LYS:HE2	18:B3:2508:C:H5	1.20	1.00
1:AA:545:C:C4'	5:AD:66:ASP:OD2	2.08	1.00
4:AC:102:GLU:HA	4:AC:172:ARG:HG2	1.44	1.00
18:B3:27:U:H3'	18:B3:1319:G:O4'	1.57	1.00
18:B3:1163:G:O6	30:BK:51:LYS:HE2	1.58	1.00
30:BK:37:LEU:HB2	30:BK:64:ILE:HD11	1.43	1.00
18:B3:93:C:H5'	44:BX:42:PRO:CB	1.91	1.00
22:BC:42:LEU:HA	22:BC:180:ILE:HD13	1.39	1.00
18:B3:1806:G:H21	18:B3:2884:G:H8	1.08	1.00
18:B3:1788:U:H3'	18:B3:2881:C:H2'	1.03	1.00
18:B3:1675:C:H5'	39:BT:87:MET:HE2	1.43	1.00
10:AJ:74:GLU:CG	14:AN:37:ILE:CD1	2.27	1.00
18:B3:762:C:N4	41:BV:23:LYS:HE3	1.77	1.00
2:AT:108:HIS:CG	2:AT:540:ILE:HG13	1.97	1.00
27:BH:107:ASP:HA	27:BH:112:ILE:HG12	1.44	1.00
18:B3:2705:U:C5'	27:BH:122:LYS:NZ	2.14	1.00
18:B3:2460:A:OP1	46:BZ:62:LYS:HG3	1.62	1.00
22:BC:146:GLU:HG3	22:BC:147:LEU:HD12	1.39	1.00
1:AA:1306:A:H2'	13:AM:144:ARG:NH2	1.74	0.99
19:B4:36:C:C5'	24:BE:181:PRO:O	1.98	0.99
1:AA:319:G:HO2'	1:AA:1435:G:N2	1.58	0.99
18:B3:1309:U:H6	23:BD:204:PRO:HD3	1.03	0.99
18:B3:1164:U:C4	30:BK:51:LYS:CG	2.44	0.99
18:B3:796:A:O4'	47:B9:12:LYS:HB3	1.28	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:179:LEU:HD22	47:B9:21:LEU:HD13	1.40	0.99
18:B3:93:C:H5'	44:BX:42:PRO:C	1.82	0.99
18:B3:1055:G:OP2	28:BI:110:ARG:CB	2.09	0.99
18:B3:2738:G:P	35:BP:58:SER:O	2.20	0.99
1:AA:621:A:O3'	5:AD:78:ARG:HD3	1.59	0.99
1:AA:553:A:N3	12:AL:46:SER:CA	2.24	0.99
1:AA:779:C:C5'	11:AK:132:ARG:CB	2.37	0.99
1:AA:144:G:C5	1:AA:199:G:C5'	2.31	0.99
1:AA:987:G:C4	17:AS:77:ARG:HD3	1.97	0.99
13:AM:129:TRP:CZ3	17:AS:121:ILE:CG1	2.46	0.99
13:AM:23:ASP:HB2	13:AM:31:ALA:HB1	1.39	0.99
18:B3:841:A:C8	33:BN:131:ALA:HB3	1.93	0.99
19:B4:50:G:N2	24:BE:57:ASN:OD1	1.95	0.99
18:B3:677:C:O3'	23:BD:256:LYS:CG	2.08	0.99
18:B3:1874:U:OP1	21:BB:127:ARG:HG2	1.61	0.99
18:B3:782:G:C5'	21:BB:189:ARG:HH12	1.74	0.99
18:B3:1853:C:C5'	21:BB:238:ALA:O	2.10	0.99
18:B3:91:G:H2'	44:BX:41:LEU:HB3	1.41	0.99
28:BI:51:HIS:HB2	28:BI:52:LEU:HD13	1.44	0.99
31:BL:67:ARG:HG2	31:BL:125:THR:HA	1.44	0.99
1:AA:24:U:H3'	12:AL:39:LYS:HE3	1.43	0.99
18:B3:2560:C:O4'	18:B3:2776:A:C2	2.14	0.99
1:AA:321:A:H5''	1:AA:1437:C:H5'	1.02	0.99
18:B3:1096:U:O3'	25:BF:213:TRP:CZ3	2.15	0.99
18:B3:778:C:H5''	45:BY:9:LYS:HZ1	1.01	0.99
18:B3:1206:C:O2	18:B3:1207:A:N9	1.95	0.99
18:B3:107:U:O2'	44:BX:56:THR:HG22	1.63	0.99
22:BC:236:LYS:HA	22:BC:246:ARG:HG2	1.44	0.99
31:BL:53:LYS:HD3	31:BL:55:LYS:HG2	1.41	0.99
29:BJ:15:LYS:CA	29:BJ:70:VAL:HG21	1.93	0.99
10:AJ:72:ASN:O	14:AN:20:CYS:HB2	1.62	0.99
3:AB:139:ASN:ND2	8:AH:68:LEU:HG	1.78	0.99
1:AA:64:G:H4'	1:AA:65:U:O5'	1.62	0.99
18:B3:215:A:C5'	41:BV:58:ARG:NE	2.15	0.99
18:B3:905:C:C4	18:B3:1330:A:H1'	1.95	0.99
18:B3:698:A:H5''	41:BV:114:LYS:HB3	1.39	0.99
18:B3:194:A:O3'	31:BL:178:LYS:HB2	1.17	0.99
18:B3:145:A:H5'	31:BL:137:GLN:NE2	1.77	0.99
18:B3:926:A:H1'	41:BV:45:ASP:OD2	1.61	0.99
18:B3:1074:G:H5''	42:B0:45:ARG:HD3	1.43	0.99
23:BD:221:VAL:HG22	23:BD:222:PRO:HD2	1.44	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:62:LEU:HD23	30:BK:72:SER:HB3	1.44	0.99
18:B3:68:U:C4'	44:BX:51:ILE:HD13	1.92	0.99
18:B3:2828:G:P	22:BC:129:PHE:HB3	2.02	0.99
1:AA:620:C:H5'	5:AD:129:ILE:HD12	0.99	0.99
18:B3:2596:A:O2'	37:BR:74:MET:CE	2.11	0.99
1:AA:143:A:P	1:AA:201:C:C5	2.56	0.99
18:B3:1396:C:H1'	35:BP:2:ASN:HB2	1.41	0.99
1:AA:1505:G:C8	1:AA:1506:U:C6	2.47	0.99
18:B3:1127:C:O2'	18:B3:2492:U:H5'	1.60	0.99
18:B3:620:A:O3'	42:B0:40:SER:HB2	1.60	0.99
19:B4:50:G:H2'	24:BE:93:THR:H	1.26	0.99
18:B3:664:U:C5'	23:BD:114:HIS:CB	2.40	0.99
18:B3:677:C:C4'	23:BD:256:LYS:CE	2.08	0.99
18:B3:1358:A:H2'	23:BD:92:MET:HG2	1.42	0.99
21:BB:177:PRO:HB3	47:B9:22:ARG:HD2	1.40	0.99
18:B3:72:C:OP1	44:BX:49:LYS:HE3	1.62	0.99
18:B3:1132:A:C2'	18:B3:2521:A:O4'	1.86	0.99
18:B3:2818:A:H4'	22:BC:99:ARG:NH1	1.77	0.99
18:B3:2822:C:H5'	22:BC:133:SER:OG	1.62	0.99
28:BI:152:LEU:HA	28:BI:155:ALA:HB3	1.44	0.99
18:B3:920:C:O2'	41:BV:40:HIS:CD2	2.04	0.99
18:B3:1674:C:P	39:BT:121:ALA:CB	2.43	0.99
1:AA:62:U:O2'	1:AA:385:C:C1'	2.10	0.99
1:AA:1075:C:P	3:AB:102:THR:HB	2.03	0.99
40:BU:57:LEU:HG	40:BU:105:VAL:HB	1.42	0.99
18:B3:1090:A:C5'	42:B0:55:ILE:HD12	1.91	0.99
1:AA:1296:C:O2'	13:AM:54:LEU:N	1.94	0.99
1:AA:1329:A:H61	13:AM:94:ASP:CA	1.76	0.99
13:AM:92:ILE:CG1	13:AM:123:ARG:NH2	2.26	0.99
18:B3:751:U:H4'	23:BD:36:THR:HG21	1.43	0.99
18:B3:52:A:H5'	45:BY:20:ARG:HD2	1.43	0.99
18:B3:2837:U:C5	22:BC:333:ARG:CD	2.24	0.99
22:BC:236:LYS:HE2	22:BC:237:LEU:HD23	1.43	0.99
18:B3:2520:G:OP1	28:BI:160:PRO:HG3	0.83	0.99
31:BL:113:ARG:HH21	31:BL:154:VAL:HG11	1.23	0.99
18:B3:1794:G:H4'	35:BP:96:ARG:CB	1.92	0.99
18:B3:2345:A:H1'	29:BJ:23:GLY:H	0.84	0.99
18:B3:1674:C:P	39:BT:111:THR:HA	2.03	0.99
18:B3:1508:C:C5'	39:BT:78:GLY:N	2.25	0.99
5:AD:86:LEU:HD12	5:AD:96:VAL:HG22	1.41	0.99
11:AK:84:ALA:H	11:AK:118:THR:HG22	1.26	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:619:U:H5''	42:B0:41:VAL:CA	1.92	0.99
9:AI:89:VAL:HG23	9:AI:96:VAL:HB	1.40	0.99
19:B4:11:A:C4	24:BE:14:SER:CA	2.36	0.99
18:B3:664:U:H4'	23:BD:114:HIS:HB2	1.40	0.99
18:B3:170:U:C4'	31:BL:82:LYS:HD2	1.92	0.99
18:B3:772:G:H21	45:BY:48:TRP:CB	1.74	0.99
18:B3:1164:U:C2'	30:BK:51:LYS:CB	2.39	0.99
21:BB:97:VAL:HG23	21:BB:165:ILE:HG21	1.41	0.99
18:B3:2720:C:OP1	38:BS:33:ASN:ND2	1.96	0.99
18:B3:1566:C:P	35:BP:59:LYS:HG2	2.02	0.99
20:BA:55:LEU:CD2	20:BA:167:VAL:HA	1.91	0.99
1:AA:66:G:H5'	1:AA:173:U:O2	1.58	0.99
18:B3:1401:G:OP1	43:BW:61:ARG:N	1.88	0.99
1:AA:357:G:P	1:AA:366:C:O5'	2.20	0.99
18:B3:1137:G:C6	18:B3:2785:C:C6	2.51	0.99
18:B3:521:A:H5''	42:B0:26:HIS:CD2	1.97	0.99
32:BM:32:ILE:HG13	32:BM:33:VAL:H	1.26	0.99
1:AA:187:C:OP1	1:AA:258:G:P	2.19	0.99
34:BO:51:ALA:HB3	34:BO:84:VAL:HG21	1.42	0.99
1:AA:988:G:H1'	1:AA:1014:A:C4'	1.91	0.99
18:B3:844:A:P	33:BN:130:ARG:CB	2.44	0.99
18:B3:538:C:O2'	42:B0:21:HIS:HA	1.62	0.99
18:B3:2662:G:O2'	18:B3:2814:A:C2	2.16	0.99
18:B3:1334:C:H2'	42:B0:98:HIS:N	1.78	0.99
18:B3:1183:C:HO2'	30:BK:85:LEU:HA	1.28	0.99
18:B3:72:C:H5'	44:BX:49:LYS:HE2	1.43	0.99
22:BC:54:THR:HG21	37:BR:91:VAL:HG22	1.43	0.99
37:BR:95:PHE:CZ	38:BS:23:ARG:CG	2.45	0.99
18:B3:2263:G:H5''	31:BL:70:ARG:HE	1.25	0.99
18:B3:1593:C:OP1	35:BP:116:LYS:CB	2.11	0.99
20:BA:26:ARG:HG3	20:BA:210:MET:HG3	1.44	0.99
1:AA:35:G:H4'	12:AL:128:SER:CB	1.92	0.99
43:BW:22:VAL:HB	43:BW:25:LYS:HB2	1.40	0.99
1:AA:1500:A:OP2	1:AA:1521:G:OP1	1.73	0.99
1:AA:16:A:H2	1:AA:918:A:N1	1.31	0.99
5:AD:39:LYS:HG3	5:AD:40:LYS:H	1.28	0.99
1:AA:1225:A:N7	17:AS:100:LYS:HE3	1.77	0.99
1:AA:1150:U:O2'	10:AJ:58:LEU:C	2.01	0.99
18:B3:1830:C:N4	21:BB:180:LYS:CD	2.26	0.99
21:BB:103:LEU:HD11	21:BB:135:ILE:HD12	1.39	0.99
18:B3:2826:G:N3	22:BC:124:SER:HB2	1.73	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:119:LYS:HB2	26:BG:188:LEU:HD12	1.42	0.99
18:B3:1565:C:O3'	35:BP:59:LYS:HG2	1.63	0.99
39:BT:87:MET:HA	39:BT:119:LYS:HG3	1.42	0.99
5:AD:95:TYR:HB3	5:AD:193:GLU:HB3	1.45	0.99
18:B3:2461:U:O5'	46:BZ:60:LYS:HG2	1.62	0.99
20:BA:29:LEU:HD22	20:BA:172:VAL:HG11	1.44	0.99
1:AA:990:C:H5	1:AA:1016:A:N3	1.44	0.99
13:AM:85:PHE:HA	13:AM:100:THR:HB	1.45	0.99
19:B4:48:C:C2'	24:BE:158:ARG:CG	2.41	0.99
19:B4:85:A:C2'	25:BF:228:PHE:CZ	2.46	0.99
18:B3:2652:U:C1'	22:BC:257:ALA:CB	2.40	0.99
22:BC:25:ARG:HD3	22:BC:176:HIS:HB2	1.03	0.99
22:BC:359:ASP:CB	38:BS:17:ARG:H	1.69	0.99
5:AD:92:LYS:CA	6:AE:174:GLY:HA2	1.92	0.99
27:BH:117:PHE:CE2	27:BH:120:ASP:HB2	1.98	0.99
18:B3:2458:U:P	46:BZ:84:LEU:H	1.86	0.99
1:AA:877:C:C1'	8:AH:3:SER:HB3	1.88	0.99
1:AA:17:U:C4	1:AA:916:G:O6	2.15	0.99
1:AA:1501:C:OP1	1:AA:1508:G:N9	1.94	0.99
1:AA:1309:G:C8	13:AM:92:ILE:HG23	1.54	0.98
17:AS:59:LYS:HE2	17:AS:63:ALA:HB2	1.45	0.98
42:B0:19:ARG:HG3	42:B0:33:ARG:HG2	1.44	0.98
1:AA:1126:U:H1'	1:AA:1280:A:N6	1.10	0.98
19:B4:46:C:H2'	24:BE:152:ARG:HG3	1.44	0.98
24:BE:42:ALA:HA	24:BE:49:TYR:CZ	1.98	0.98
1:AA:337:C:O4'	1:AA:1468:A:C2	2.16	0.98
18:B3:2099:G:H3'	23:BD:68:ARG:NH2	1.77	0.98
18:B3:798:G:H5'	47:B9:9:ILE:HD11	0.99	0.98
18:B3:1287:A:C2	25:BF:106:ARG:HD2	1.98	0.98
18:B3:2215:A:H5''	20:BA:64:SER:CB	1.93	0.98
39:BT:63:GLU:HB2	39:BT:85:VAL:CB	1.93	0.98
10:AJ:70:THR:CB	14:AN:42:PHE:N	2.25	0.98
2:AT:785:ARG:HE	18:B3:2697:A:N6	1.60	0.98
1:AA:777:A:C5	11:AK:126:ARG:NH2	2.31	0.98
18:B3:2676:C:OP1	32:BM:73:ARG:CD	2.11	0.98
18:B3:819:A:C4'	47:B9:13:TYR:OH	2.11	0.98
18:B3:1467:C:OP1	31:BL:33:ASN:CB	2.10	0.98
18:B3:1173:A:OP1	30:BK:40:LYS:HE2	1.63	0.98
13:AM:94:ASP:CG	13:AM:134:ARG:HH21	1.66	0.98
18:B3:537:G:H3'	42:B0:41:VAL:CG1	1.93	0.98
18:B3:501:G:C5'	33:BN:16:ALA:CA	2.28	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1652:C:O5'	21:BB:173:ARG:NH1	1.95	0.98
21:BB:171:GLY:H	47:B9:67:ALA:CB	1.76	0.98
18:B3:2526:C:C5'	18:B3:2605:G:H4'	1.93	0.98
18:B3:2489:G:C2'	18:B3:2490:A:C8	2.46	0.98
22:BC:165:ILE:HG23	22:BC:168:THR:HG22	1.41	0.98
18:B3:2283:G:C6	28:BI:105:CYS:CA	2.45	0.98
29:BJ:95:PHE:HB3	29:BJ:101:PHE:HB2	1.42	0.98
18:B3:2346:C:H4'	29:BJ:64:ILE:O	1.61	0.98
18:B3:2216:A:P	20:BA:64:SER:OG	2.21	0.98
18:B3:1677:U:OP2	39:BT:115:PRO:HD2	1.62	0.98
10:AJ:75:GLY:CA	14:AN:40:GLN:HG3	1.86	0.98
8:AH:35:LYS:HG3	8:AH:109:ILE:HG12	1.44	0.98
1:AA:678:U:C4'	11:AK:127:LYS:HA	1.93	0.98
40:BU:100:HIS:HB3	40:BU:103:LYS:HG3	1.44	0.98
18:B3:79:G:H5'	40:BU:28:ARG:HB3	1.43	0.98
18:B3:302:A:P	40:BU:28:ARG:HH22	1.86	0.98
1:AA:405:U:O2	5:AD:25:ASP:C	1.79	0.98
1:AA:1329:A:N6	13:AM:95:GLY:H	1.61	0.98
24:BE:16:PHE:CD1	36:BQ:19:PHE:CE1	2.50	0.98
18:B3:1429:U:OP2	33:BN:124:GLN:HG3	1.62	0.98
23:BD:180:VAL:HG21	23:BD:222:PRO:HB2	1.43	0.98
18:B3:1348:A:H4'	23:BD:38:PHE:CE1	1.99	0.98
21:BB:147:VAL:HG21	21:BB:155:LYS:HB2	1.43	0.98
18:B3:1002:G:O3'	28:BI:90:ARG:NH1	1.94	0.98
1:AA:1086:U:C5'	1:AA:1389:C:H5'	1.77	0.98
40:BU:31:LEU:HD22	40:BU:101:PRO:HD2	1.45	0.98
1:AA:1297:C:C6	13:AM:53:ASP:OD2	2.14	0.98
18:B3:537:G:C2'	42:B0:41:VAL:HG11	1.93	0.98
18:B3:2368:A:H3'	24:BE:31:TYR:CE2	1.98	0.98
18:B3:500:G:N3	33:BN:16:ALA:HB1	1.77	0.98
18:B3:1371:U:H5''	33:BN:66:ILE:CD1	1.81	0.98
1:AA:190(D):U:C4	16:AQ:112:PRO:CD	2.43	0.98
22:BC:156:VAL:HG23	22:BC:158:ARG:HH22	1.28	0.98
18:B3:2135:A:C2	18:B3:2239:C:C4	2.50	0.98
18:B3:1816:C:C1'	18:B3:2746:A:N3	2.27	0.98
39:BT:75:VAL:HG12	39:BT:80:ILE:HG13	1.45	0.98
1:AA:364:A:P	12:AL:50:LYS:CG	2.50	0.98
2:AT:536:LEU:CD1	18:B3:2698:G:O2'	2.12	0.98
18:B3:1115:U:H5''	18:B3:1140:C:O2	1.61	0.98
18:B3:2705:U:H5'	27:BH:122:LYS:HE2	1.41	0.98
27:BH:40:HIS:C	32:BM:125:VAL:HG12	1.82	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:678:U:C2'	11:AK:125:THR:CB	2.39	0.98
18:B3:1501:A:OP2	35:BP:37:ARG:CD	2.10	0.98
18:B3:2459:G:P	46:BZ:86:ARG:CZ	2.51	0.98
1:AA:1497:G:N3	1:AA:1518:A:C4	2.23	0.98
18:B3:905:C:C4	18:B3:1330:A:C1'	2.45	0.98
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.45	0.98
18:B3:697:G:C3'	41:BV:112:LEU:HD11	1.88	0.98
18:B3:1137:G:C6	18:B3:2785:C:C5	2.37	0.98
18:B3:2404:G:C8	36:BQ:69:LYS:CD	2.42	0.98
19:B4:8:G:N7	24:BE:21:ARG:CD	2.26	0.98
18:B3:449:A:H4'	23:BD:194:ARG:HH21	1.29	0.98
23:BD:221:VAL:HG11	23:BD:224:VAL:HB	1.45	0.98
18:B3:1163:G:H4'	30:BK:54:LYS:HB2	1.45	0.98
18:B3:1870:C:O3'	21:BB:192:ARG:HB2	1.56	0.98
21:BB:47:ILE:CD1	47:B9:62:THR:HB	1.93	0.98
18:B3:1805:G:H5'	18:B3:2875:A:O2'	1.29	0.98
18:B3:2345:A:H4'	29:BJ:48:LYS:CD	1.83	0.98
20:BA:55:LEU:HD12	20:BA:157:PHE:C	1.83	0.98
6:AE:219:ASN:O	8:AH:99:GLY:CA	2.10	0.98
1:AA:523:A:N6	12:AL:116:ASP:HB2	1.77	0.98
1:AA:1419:G:C2	18:B3:1990:C:H4'	1.99	0.98
35:BP:24:ASP:HB2	35:BP:27:GLU:HB2	1.45	0.98
1:AA:405:U:C5	5:AD:23:ARG:HB3	1.78	0.98
18:B3:2081:A:C1'	32:BM:69:PRO:HG3	1.93	0.98
1:AA:1408:A:C5'	18:B3:1960:A:P	2.52	0.98
1:AA:1349:A:H5''	9:AI:135:SER:CB	1.92	0.98
19:B4:56:A:H2'	19:B4:57:A:H5''	1.44	0.98
18:B3:10:U:HO2'	18:B3:11:A:H8	0.99	0.98
18:B3:517:U:O2	18:B3:1319:G:N2	1.97	0.98
18:B3:664:U:C5'	23:BD:114:HIS:HB3	1.93	0.98
18:B3:35:U:C2'	23:BD:48:ALA:HB3	1.94	0.98
34:BO:122:ILE:HD12	34:BO:124:LEU:H	1.25	0.98
18:B3:473:A:P	45:BY:48:TRP:HZ2	1.84	0.98
18:B3:1285:U:C3'	25:BF:155:ILE:CG2	2.40	0.98
22:BC:165:ILE:HG12	22:BC:171:ALA:HB1	1.45	0.98
1:AA:1202:G:H1	10:AJ:74:GLU:HG3	1.28	0.98
1:AA:619:U:C3'	5:AD:129:ILE:HD13	1.92	0.98
1:AA:25:C:O2'	12:AL:109:ARG:NH1	1.95	0.98
1:AA:405:U:C2	5:AD:26:ALA:N	2.31	0.98
18:B3:1127:C:O2	18:B3:2491:G:H4'	1.63	0.98
18:B3:448:G:H22	23:BD:47:GLN:HE21	1.11	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:553:G:H4'	42:B0:69:SER:CB	1.93	0.98
23:BD:133:LEU:HD12	23:BD:136:ALA:HB3	1.45	0.98
18:B3:1167:G:C2'	30:BK:110:ILE:HG22	1.94	0.98
18:B3:2441:U:O2'	41:BV:60:PHE:CZ	2.12	0.98
22:BC:69:ARG:HD2	37:BR:88:ARG:CD	1.92	0.98
18:B3:2134:G:C8	18:B3:2258:A:C2	2.48	0.98
26:BG:113:ALA:HB2	26:BG:119:LYS:HB3	1.45	0.98
5:AD:92:LYS:HB2	5:AD:95:TYR:CE2	1.99	0.98
1:AA:554:C:C6	12:AL:45:GLY:HA2	1.97	0.98
2:AT:114:GLU:HG2	2:AT:537:HIS:HE1	1.25	0.98
1:AA:676:A:N1	11:AK:123:ASP:HA	1.77	0.98
43:BW:58:ILE:HG13	43:BW:59:TRP:CZ2	1.98	0.98
1:AA:634:C:C3'	16:AQ:92:TYR:CE2	2.45	0.98
2:AT:738:GLN:HA	18:B3:1199:A:H62	1.18	0.98
1:AA:689:C:OP1	11:AK:50:ASP:HA	1.61	0.98
18:B3:1739:G:O2'	18:B3:2726:U:C5	1.90	0.98
9:AI:8:THR:HG23	9:AI:19:ALA:HB3	1.45	0.98
19:B4:29:C:H41	24:BE:57:ASN:HB3	0.83	0.98
18:B3:635:A:C5'	23:BD:91:ASN:HD21	1.73	0.98
21:BB:171:GLY:N	47:B9:67:ALA:N	2.11	0.98
18:B3:2519:C:C6	28:BI:158:LYS:CE	2.43	0.98
18:B3:1809:G:N2	18:B3:2732:U:C4'	2.25	0.98
35:BP:94:TRP:CZ3	35:BP:95:ILE:HD12	1.99	0.98
20:BA:55:LEU:CG	20:BA:157:PHE:HA	1.93	0.98
1:AA:143:A:H4'	1:AA:199:G:C2'	1.93	0.98
18:B3:215:A:OP1	41:BV:58:ARG:HB2	1.61	0.98
18:B3:1154:A:H8	18:B3:1155:G:H2'	0.82	0.98
18:B3:795:G:H2'	18:B3:817:G:H22	1.25	0.98
18:B3:2820:A:H5'	22:BC:90:GLY:N	1.79	0.98
22:BC:158:ARG:HD3	22:BC:179:GLU:HG3	1.45	0.98
2:AT:140:GLU:HB3	2:AT:481:MET:CB	1.93	0.98
2:AT:138:GLN:HE22	18:B3:2698:G:H5''	1.20	0.98
3:AB:73:VAL:HG23	3:AB:117:PRO:HB3	1.44	0.98
1:AA:956:U:H1'	17:AS:126:VAL:HG21	0.99	0.98
1:AA:988:G:C5	1:AA:1015:A:C4	2.52	0.98
1:AA:1300:G:H3'	13:AM:30:TYR:HE1	1.29	0.98
18:B3:629:A:H5'	42:B0:39:ASP:O	1.63	0.98
1:AA:1256:A:H4'	1:AA:1257:U:H5'	1.46	0.98
19:B4:118:C:H2'	24:BE:71:GLY:CA	1.91	0.98
18:B3:2662:G:H1'	18:B3:2814:A:N1	1.77	0.98
18:B3:52:A:C5'	45:BY:19:ASN:O	2.12	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2093:G:O2'	22:BC:253:ALA:CB	0.68	0.98
18:B3:2819:C:C2'	22:BC:100:SER:CA	2.41	0.98
22:BC:305:THR:HG21	22:BC:315:GLU:HA	1.45	0.98
1:AA:620:C:OP1	5:AD:143:ILE:HG22	1.16	0.98
3:AB:139:ASN:CB	8:AH:69:ASN:O	2.11	0.98
18:B3:1745:G:OP1	37:BR:22:ILE:HG12	1.60	0.98
1:AA:678:U:C2'	11:AK:125:THR:HG22	1.90	0.98
1:AA:779:C:C5'	11:AK:132:ARG:CA	2.42	0.98
18:B3:1402:G:P	43:BW:62:GLY:HA3	2.04	0.98
1:AA:1503:A:OP1	1:AA:1531:A:C8	2.17	0.98
1:AA:239:U:H3'	1:AA:240:C:C2	1.98	0.98
9:AI:58:LYS:HE2	9:AI:62:ILE:HG13	1.41	0.97
19:B4:36:C:C5'	24:BE:182:GLY:N	2.25	0.97
18:B3:473:A:C5'	45:BY:48:TRP:HZ2	1.77	0.97
18:B3:67:A:OP1	44:BX:56:THR:CG2	2.12	0.97
18:B3:2763:G:H3'	37:BR:14:SER:HB2	1.05	0.97
18:B3:2819:C:C2'	22:BC:100:SER:HA	1.63	0.97
22:BC:184:GLY:HA3	22:BC:190:LYS:HD2	1.45	0.97
22:BC:222:GLY:HA3	22:BC:270:GLY:HA2	1.45	0.97
28:BI:47:PRO:HG2	28:BI:141:LYS:HA	1.46	0.97
18:B3:1056:U:H4'	28:BI:8:CYS:HB2	1.41	0.97
18:B3:1807:U:C5'	18:B3:2884:G:N3	2.27	0.97
18:B3:2334:C:H1'	29:BJ:112:GLY:C	1.84	0.97
20:BA:57:ASN:HD21	20:BA:155:ILE:HD11	1.29	0.97
18:B3:2780:C:O2'	27:BH:155:SER:O	1.80	0.97
18:B3:1717:A:OP1	35:BP:55:THR:N	1.97	0.97
18:B3:449:A:C5'	18:B3:1306:U:O4'	2.12	0.97
18:B3:1852:A:H4'	21:BB:236:LEU:HD23	1.46	0.97
18:B3:2093:G:N1	22:BC:257:ALA:O	1.95	0.97
18:B3:2283:G:N3	28:BI:115:MET:HG2	1.78	0.97
37:BR:45:ARG:HG2	37:BR:46:LEU:HD13	1.46	0.97
18:B3:2347:C:C6	29:BJ:66:VAL:CG1	0.94	0.97
20:BA:152:ARG:C	20:BA:158:GLN:OE1	1.91	0.97
18:B3:78:G:O2'	40:BU:25:SER:HA	1.63	0.97
18:B3:81:G:C5'	40:BU:74:TYR:H	1.64	0.97
1:AA:1340:A:H2'	9:AI:141:TYR:CE1	1.99	0.97
20:BA:174:MET:HB3	20:BA:178:VAL:HG21	1.45	0.97
32:BM:33:VAL:HG11	32:BM:104:PHE:HE1	1.29	0.97
36:BQ:57:TYR:HE2	36:BQ:76:ILE:HD13	1.28	0.97
18:B3:671:A:C4'	23:BD:212:ASN:O	2.12	0.97
18:B3:111:C:C5'	18:B3:118:G:O6	2.10	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2468:A:N1	46:BZ:55:PRO:HD3	1.78	0.97
18:B3:2657:G:OP1	22:BC:19:LYS:HA	1.63	0.97
18:B3:2346:C:H5''	29:BJ:47:SER:O	1.62	0.97
10:AJ:73:GLY:HA2	14:AN:25:SER:O	1.64	0.97
2:AT:137:VAL:O	2:AT:481:MET:SD	2.22	0.97
1:AA:1348:U:H4'	9:AI:134:ARG:CB	1.92	0.97
18:B3:219:G:H4'	46:BZ:52:GLN:HG3	1.46	0.97
1:AA:1301:U:OP1	13:AM:33:THR:OG1	1.83	0.97
1:AA:988:G:C5'	1:AA:1014:A:P	2.51	0.97
18:B3:844:A:H5'	33:BN:133:GLY:HA2	1.41	0.97
18:B3:2413:A:C4	24:BE:174:PRO:HB2	1.98	0.97
18:B3:120:A:C8	45:BY:26:PHE:HE1	1.81	0.97
18:B3:1899:C:H1'	21:BB:223:THR:OG1	1.64	0.97
18:B3:796:A:H4'	47:B9:12:LYS:CA	1.93	0.97
18:B3:72:C:O2'	44:BX:53:CYS:CB	2.11	0.97
22:BC:55:ILE:CB	22:BC:74:ALA:HB2	1.94	0.97
28:BI:26:VAL:HG13	28:BI:125:LEU:HD11	1.43	0.97
18:B3:160:A:OP1	31:BL:85:ASN:HB2	1.17	0.97
18:B3:401:C:H5''	31:BL:94:GLN:O	1.61	0.97
1:AA:990:C:C6	1:AA:1016:A:N3	2.32	0.97
1:AA:1243:C:O2'	13:AM:48:LYS:NZ	1.96	0.97
1:AA:979:C:O2'	17:AS:58:LYS:HE3	1.65	0.97
19:B4:119:C:N1	24:BE:71:GLY:HA2	1.79	0.97
1:AA:318:G:C2	1:AA:1434:A:N3	2.30	0.97
18:B3:1352:A:H5'	23:BD:102:THR:HG23	0.99	0.97
18:B3:672:G:H1	23:BD:232:LEU:CD1	1.77	0.97
23:BD:59:THR:HG22	23:BD:83:ARG:HD2	1.45	0.97
18:B3:471:G:C4'	45:BY:15:HIS:CE1	2.46	0.97
45:BY:46:TYR:CE2	45:BY:48:TRP:HB3	1.99	0.97
18:B3:1164:U:C2'	30:BK:51:LYS:HB3	1.95	0.97
21:BB:56:PRO:HD2	47:B9:51:ALA:HB1	1.46	0.97
1:AA:129(A):G:O2'	16:AQ:137:ASN:N	1.97	0.97
18:B3:2809:G:O2'	22:BC:16:LEU:O	1.80	0.97
22:BC:56:VAL:CG2	37:BR:89:ASP:O	2.11	0.97
37:BR:95:PHE:CB	38:BS:22:VAL:CG1	2.15	0.97
18:B3:2736:U:H3'	35:BP:61:ARG:HB2	0.97	0.97
18:B3:2737:C:H5	35:BP:61:ARG:HA	1.27	0.97
18:B3:2215:A:H5''	20:BA:107:TYR:CD2	1.99	0.97
1:AA:35:G:C5'	12:AL:128:SER:HB2	1.93	0.97
18:B3:2579:G:H4'	18:B3:2680:A:N9	1.78	0.97
18:B3:475:G:OP1	23:BD:58:GLN:NE2	1.97	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1370:G:O4'	33:BN:62:PHE:CD1	2.13	0.97
18:B3:500:G:C2'	33:BN:16:ALA:HB1	1.95	0.97
23:BD:136:ALA:HB3	23:BD:137:ARG:HH21	1.27	0.97
18:B3:894:A:C4	23:BD:98:MET:HB3	2.00	0.97
18:B3:120:A:N3	45:BY:16:THR:HG21	1.78	0.97
18:B3:1164:U:OP1	30:BK:50:THR:HB	1.64	0.97
1:AA:190(D):U:O2	16:AQ:111:SER:OG	1.82	0.97
22:BC:260:MET:HE2	32:BM:66:THR:HG23	1.46	0.97
18:B3:1788:U:O2	18:B3:2875:A:N6	1.98	0.97
18:B3:2735:U:OP2	35:BP:79:LYS:CE	2.13	0.97
18:B3:1794:G:C5'	35:BP:97:ARG:CG	2.43	0.97
18:B3:2350:G:OP1	29:BJ:139:ARG:HD3	1.60	0.97
18:B3:124:C:H6	39:BT:88:LYS:NZ	1.60	0.97
1:AA:553:A:C2'	12:AL:45:GLY:N	2.26	0.97
2:AT:141:THR:O	2:AT:483:PHE:CD2	2.17	0.97
1:AA:920:U:O4'	1:AA:1080:A:HI'	1.65	0.97
1:AA:920:U:C5'	1:AA:1080:A:N9	2.10	0.97
40:BU:45:ILE:HD12	40:BU:47:ALA:H	1.30	0.97
18:B3:49:A:C2	18:B3:113:A:O4'	2.18	0.97
18:B3:621:C:H3'	42:B0:36:LYS:HB2	1.46	0.97
23:BD:7:VAL:HG11	23:BD:16:ALA:HB3	1.47	0.97
18:B3:120:A:C2	45:BY:16:THR:CG2	2.47	0.97
18:B3:1184:A:C4'	30:BK:86:LYS:HB2	1.94	0.97
18:B3:945:U:C5'	25:BF:128:LEU:CD1	2.41	0.97
22:BC:221:LYS:H	22:BC:221:LYS:HE3	1.25	0.97
37:BR:92:PHE:CD1	38:BS:20:LEU:CD2	2.47	0.97
1:AA:617:G:OP2	5:AD:146:PHE:CZ	2.18	0.97
8:AH:24:VAL:HG23	8:AH:64:LEU:HD11	1.44	0.97
1:AA:553:A:H2'	12:AL:45:GLY:HA2	0.99	0.97
2:AT:113:SER:OG	2:AT:517:CYS:N	1.61	0.97
18:B3:2596:A:H5"	37:BR:73:VAL:HG12	1.43	0.97
1:AA:1370:G:O5'	9:AI:123:PRO:CG	2.13	0.97
27:BH:48:VAL:HA	27:BH:53:ILE:HG22	1.43	0.97
6:AE:102:VAL:HG21	6:AE:189:LEU:CD2	1.87	0.97
1:AA:865:A:O2'	1:AA:1079:G:C2	2.11	0.97
10:AJ:52:LYS:HG2	10:AJ:91:ILE:HG22	1.43	0.97
1:AA:318:G:C2	1:AA:1433:A:N1	2.32	0.97
23:BD:208:TYR:CE2	23:BD:224:VAL:HG21	2.00	0.97
23:BD:63:SER:HB2	23:BD:74:PRO:HA	1.43	0.97
18:B3:1164:U:OP1	30:BK:47:ALA:O	1.80	0.97
1:AA:190(E):U:O5'	16:AQ:109:HIS:HB2	1.62	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:58:GLU:HG3	28:BI:128:ARG:HG2	1.44	0.97
26:BG:129:TYR:CE1	26:BG:202:VAL:HG11	1.98	0.97
18:B3:20:G:C4'	33:BN:5:ALA:O	2.12	0.97
1:AA:518:C:O2'	12:AL:66:SER:O	1.80	0.97
18:B3:73:C:OP1	44:BX:5:LYS:CA	2.12	0.97
33:BN:49:GLN:HG3	33:BN:54:GLN:HB3	1.46	0.97
1:AA:1302:U:H3'	13:AM:54:LEU:HD22	0.99	0.97
1:AA:1177:G:H8	9:AI:107:ALA:N	1.12	0.97
18:B3:1010:C:O3'	24:BE:15:ARG:CZ	2.11	0.97
19:B4:50:G:N1	24:BE:58:LYS:N	2.13	0.97
18:B3:1371:U:H4'	33:BN:65:SER:HB2	1.47	0.97
18:B3:500:G:H2'	33:BN:16:ALA:CB	1.94	0.97
18:B3:676:C:O3'	23:BD:232:LEU:C	2.03	0.97
18:B3:721:A:O5'	34:BO:71:LEU:HB3	1.64	0.97
18:B3:2709:G:OP1	37:BR:10:LYS:N	1.97	0.97
18:B3:2840:A:OP1	22:BC:224:GLY:HA3	1.64	0.97
18:B3:2846:C:C4'	22:BC:174:LYS:HE3	1.93	0.97
2:AT:464:LEU:HD13	2:AT:510:ARG:N	1.79	0.97
1:AA:779:C:H5'	11:AK:132:ARG:N	1.80	0.97
1:AA:1377:A:N3	7:AG:75:ARG:O	1.83	0.97
1:AA:404:U:C1'	5:AD:19:TYR:HE2	1.78	0.97
1:AA:990:C:O2'	1:AA:1017:G:P	2.22	0.97
1:AA:1318:A:N3	17:AS:56:PHE:HD1	1.60	0.97
19:B4:85:A:O4'	25:BF:228:PHE:CZ	2.16	0.97
18:B3:1785:G:C1'	18:B3:2733:U:OP1	2.11	0.97
18:B3:2737:C:H41	35:BP:61:ARG:NH2	1.63	0.97
5:AD:129:ILE:HD13	5:AD:142:ASN:HA	1.47	0.97
1:AA:615:C:C6	5:AD:149:ARG:HD3	1.99	0.97
18:B3:1382:G:O2'	43:BW:26:LYS:HG3	1.65	0.97
43:BW:9:ARG:HH22	43:BW:72:LEU:HD11	1.30	0.97
18:B3:2552:C:C5'	18:B3:2553:A:H2	1.65	0.97
2:AT:748:ASN:HB3	18:B3:2508:C:H1'	1.45	0.97
18:B3:560:C:H42	18:B3:597:A:H61	1.01	0.97
1:AA:1330:U:P	13:AM:97:ASP:HB3	2.05	0.96
1:AA:1180:A:H5'	9:AI:117:ILE:CD1	1.90	0.96
24:BE:144:VAL:HB	24:BE:171:LEU:HD21	1.43	0.96
1:AA:319:G:C2	1:AA:1434:A:C2	2.52	0.96
18:B3:1315:G:H21	42:B0:107:VAL:CB	1.76	0.96
18:B3:782:G:H5''	21:BB:189:ARG:HH12	1.28	0.96
21:BB:177:PRO:CB	47:B9:22:ARG:NH1	2.27	0.96
21:BB:177:PRO:HD3	47:B9:25:VAL:HG23	1.00	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:47:ILE:HD12	47:B9:62:THR:HB	1.43	0.96
18:B3:949:U:H1'	36:BQ:100:LYS:CB	1.85	0.96
1:AA:190(E):U:N3	16:AQ:131:SER:CB	2.26	0.96
18:B3:68:U:H2'	44:BX:55:LEU:CB	1.90	0.96
18:B3:2652:U:C2	22:BC:257:ALA:CB	2.41	0.96
18:B3:402:U:H5'	31:BL:69:ASN:ND2	1.77	0.96
18:B3:1814:G:N3	18:B3:2733:U:C6	2.33	0.96
38:BS:52:THR:HB	38:BS:55:PHE:HB2	1.44	0.96
2:AT:111:PHE:CB	2:AT:484:SER:O	2.12	0.96
27:BH:94:TYR:CB	27:BH:177:ASP:HA	1.92	0.96
18:B3:1131:G:C6	18:B3:2523:U:C5'	2.48	0.96
18:B3:697:G:OP1	41:BV:131:LYS:N	1.97	0.96
1:AA:123:C:C5'	1:AA:312:C:O2'	2.12	0.96
18:B3:537:G:H3'	42:B0:41:VAL:HG11	0.98	0.96
18:B3:1308:A:O2'	23:BD:204:PRO:CB	2.13	0.96
18:B3:2489:G:H2'	18:B3:2490:A:C8	2.00	0.96
22:BC:48:TYR:CB	22:BC:335:VAL:HA	1.94	0.96
26:BG:116:ALA:HA	26:BG:177:ALA:HB2	1.44	0.96
1:AA:554:C:O4'	12:AL:45:GLY:HA3	1.37	0.96
37:BR:32:ARG:HH21	37:BR:34:LEU:HD12	1.29	0.96
1:AA:143:A:P	1:AA:201:C:C6	2.58	0.96
18:B3:2552:C:O3'	18:B3:2553:A:H5'	1.64	0.96
18:B3:907:A:H5'	18:B3:1328:A:H4'	0.96	0.96
2:AT:749:LYS:CG	18:B3:2508:C:C6	2.48	0.96
1:AA:1221:G:OP2	17:AS:81:ARG:N	1.98	0.96
1:AA:1177:G:O3'	9:AI:105:LYS:CG	2.10	0.96
9:AI:30:VAL:HG23	9:AI:66:VAL:HG13	1.47	0.96
1:AA:319:G:C5	1:AA:1434:A:C2	2.50	0.96
18:B3:676:C:C3'	23:BD:232:LEU:O	1.97	0.96
31:BL:82:LYS:HE3	46:BZ:49:PHE:HB3	1.19	0.96
18:B3:1181:A:C5	30:BK:106:LEU:CD1	2.45	0.96
18:B3:1180:C:C2	30:BK:110:ILE:HD11	1.99	0.96
18:B3:1742:A:C8	18:B3:2723:G:H4'	1.99	0.96
18:B3:401:C:O2'	31:BL:93:TYR:O	1.82	0.96
3:AB:31:HIS:NE2	8:AH:21:LYS:CE	2.27	0.96
40:BU:72:SER:HB3	40:BU:81:GLN:H	1.31	0.96
1:AA:404:U:N1	5:AD:19:TYR:HE2	1.57	0.96
24:BE:199:ILE:HD13	24:BE:219:PHE:HB3	1.45	0.96
18:B3:538:C:C2'	42:B0:21:HIS:HA	1.95	0.96
18:B3:1899:C:O3'	21:BB:225:SER:HA	1.64	0.96
25:BF:198:ASN:HB3	25:BF:200:PHE:CZ	2.00	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1067:A:H5''	25:BF:96:PRO:HG3	1.47	0.96
1:AA:131:C:O4'	1:AA:264:U:C1'	1.97	0.96
22:BC:260:MET:HB3	32:BM:66:THR:CG2	1.85	0.96
18:B3:2736:U:C3'	35:BP:61:ARG:CB	2.35	0.96
18:B3:1745:G:C5'	37:BR:22:ILE:HD11	1.90	0.96
37:BR:37:ILE:HD13	37:BR:38:ALA:H	1.27	0.96
18:B3:1115:U:O2	18:B3:1225:C:H5'	1.64	0.96
27:BH:41:ILE:HG22	32:BM:126:LEU:CD2	1.94	0.96
1:AA:1345:U:N3	7:AG:76:TYR:CG	1.89	0.96
1:AA:119:A:H2	1:AA:238:G:C2'	1.77	0.96
1:AA:529:G:H1	12:AL:69:ARG:NH2	1.60	0.96
18:B3:875:A:C1'	21:BB:203:MET:HE1	1.96	0.96
9:AI:21:VAL:HG13	9:AI:62:ILE:HG23	1.45	0.96
19:B4:36:C:H4'	24:BE:182:GLY:N	1.77	0.96
24:BE:75:LEU:HD12	24:BE:113:LEU:HD11	1.48	0.96
18:B3:1315:G:H21	42:B0:107:VAL:HG11	1.30	0.96
18:B3:516:A:H1'	18:B3:1340:G:H5''	0.98	0.96
18:B3:1358:A:H2'	23:BD:92:MET:HG3	1.47	0.96
18:B3:170:U:H5''	31:BL:82:LYS:CG	1.94	0.96
22:BC:162:HIS:HA	22:BC:177:LEU:HB2	1.43	0.96
22:BC:259:VAL:HG13	22:BC:261:TRP:HD1	1.14	0.96
37:BR:54:LEU:HD22	37:BR:54:LEU:H	1.30	0.96
20:BA:55:LEU:CD2	20:BA:167:VAL:CA	2.43	0.96
39:BT:120:LYS:HE3	39:BT:120:LYS:HA	1.47	0.96
10:AJ:70:THR:OG1	14:AN:42:PHE:N	1.98	0.96
1:AA:1115:C:H5''	10:AJ:85:ARG:HH21	1.26	0.96
13:AM:29:VAL:HG13	13:AM:43:SER:HB3	1.47	0.96
19:B4:51:A:N9	24:BE:58:LYS:CB	1.84	0.96
18:B3:1167:G:N3	30:BK:110:ILE:CG2	2.28	0.96
25:BF:177:ILE:HG22	25:BF:183:LEU:HD23	1.45	0.96
1:AA:131:C:O2'	1:AA:264:U:H6	1.48	0.96
18:B3:68:U:C5	44:BX:54:VAL:O	2.18	0.96
18:B3:2806:C:C4'	22:BC:343:THR:CG2	2.44	0.96
18:B3:2737:C:N4	35:BP:61:ARG:HE	1.63	0.96
18:B3:1447:U:O2	39:BT:74:LYS:HB2	1.65	0.96
18:B3:1675:C:O5'	39:BT:113:VAL:O	1.80	0.96
39:BT:63:GLU:CB	39:BT:85:VAL:HB	1.95	0.96
1:AA:401:C:O2	1:AA:622:A:C4	2.18	0.96
18:B3:2597:U:O5'	37:BR:74:MET:SD	2.24	0.96
18:B3:697:G:H5''	41:BV:132:LEU:CD2	1.95	0.96
18:B3:697:G:C5'	41:BV:130:SER:HG	1.79	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1689:A:C5	33:BN:128:THR:CG2	2.48	0.96
18:B3:620:A:C4'	42:B0:40:SER:CB	2.44	0.96
1:AA:1291:G:H5''	7:AG:111:ARG:HH22	1.25	0.96
19:B4:6:C:OP1	24:BE:28:THR:HA	1.64	0.96
18:B3:679:G:P	23:BD:258:ASP:OD2	2.24	0.96
18:B3:1277:C:H5''	34:BO:34:THR:HG21	1.45	0.96
18:B3:1164:U:N1	30:BK:51:LYS:HB3	1.78	0.96
18:B3:1099:G:OP1	25:BF:217:ARG:CZ	2.14	0.96
18:B3:93:C:C4'	44:BX:42:PRO:HB2	1.94	0.96
18:B3:68:U:O5'	44:BX:55:LEU:HB2	1.12	0.96
31:BL:46:LYS:HD2	31:BL:118:TYR:CE1	2.00	0.96
10:AJ:78:THR:HG22	14:AN:39:ARG:HB3	1.46	0.96
2:AT:114:GLU:HG2	2:AT:537:HIS:CE1	2.00	0.96
2:AT:140:GLU:HG2	2:AT:481:MET:HA	1.47	0.96
46:BZ:25:THR:HG21	46:BZ:70:ARG:HG2	1.44	0.96
18:B3:480:C:O3'	18:B3:481:U:C5'	2.14	0.96
18:B3:266:G:OP1	31:BL:144:ASP:OD2	1.83	0.96
18:B3:500:G:N2	33:BN:96:ASN:HD22	1.62	0.96
18:B3:473:A:H5'	45:BY:48:TRP:CE2	2.00	0.96
18:B3:2101:A:N7	23:BD:71:ALA:HA	1.81	0.96
18:B3:473:A:P	45:BY:48:TRP:CZ2	2.59	0.96
18:B3:1262:C:H5'	25:BF:110:ILE:HG22	1.47	0.96
22:BC:220:THR:H	22:BC:272:HIS:HB2	1.27	0.96
22:BC:357:TRP:CB	38:BS:15:PRO:HB3	1.94	0.96
18:B3:1744:G:O3'	37:BR:22:ILE:HB	1.64	0.96
18:B3:1745:G:H5'	37:BR:22:ILE:HD13	1.00	0.96
21:BB:2:ARG:HG3	21:BB:206:VAL:HG21	1.46	0.96
18:B3:2581:U:O4'	18:B3:2600:A:C2	2.19	0.96
20:BA:45:ARG:HB2	20:BA:47:LYS:HD3	1.46	0.96
1:AA:1150:U:O2'	10:AJ:59:PRO:N	1.63	0.96
10:AJ:34:LEU:HA	10:AJ:37:VAL:HG22	1.46	0.96
23:BD:31:PRO:HA	23:BD:34:VAL:HG22	1.46	0.96
18:B3:1167:G:O2'	30:BK:111:GLU:CA	2.13	0.96
1:AA:537:G:O3'	12:AL:143:PRO:CD	2.13	0.96
18:B3:1206:C:C1'	18:B3:1207:A:C8	2.48	0.96
18:B3:2345:A:H4'	29:BJ:48:LYS:HD3	1.39	0.96
20:BA:55:LEU:HD23	20:BA:167:VAL:CB	1.95	0.96
14:AN:21:ARG:HB3	14:AN:35:LEU:HD23	1.44	0.96
1:AA:62:U:O2'	1:AA:385:C:H1'	1.65	0.96
18:B3:902:G:N7	41:BV:21:ILE:HD12	1.79	0.96
18:B3:1139:U:H5'	27:BH:62:ARG:HG3	1.46	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1301:U:H5''	13:AM:29:VAL:C	1.86	0.96
1:AA:1302:U:O4'	13:AM:54:LEU:HD21	1.66	0.96
1:AA:1308:U:O3'	13:AM:127:HIS:CE1	2.17	0.96
18:B3:620:A:C3'	42:B0:40:SER:HB2	1.95	0.96
18:B3:540:A:N6	42:B0:50:ILE:CD1	2.27	0.96
19:B4:30:C:O2	24:BE:57:ASN:CG	2.02	0.96
19:B4:51:A:N3	24:BE:58:LYS:CB	1.77	0.96
1:AA:319:G:N9	1:AA:1434:A:N1	2.13	0.96
18:B3:1876:C:H2'	21:BB:131:ASN:HD21	0.79	0.96
25:BF:174:LYS:HB2	25:BF:198:ASN:HA	1.45	0.96
19:B4:87:U:C6	25:BF:217:ARG:CZ	2.46	0.96
18:B3:2038:A:OP1	37:BR:47:ASN:CB	2.14	0.96
18:B3:2466:G:OP1	41:BV:38:HIS:CB	2.14	0.96
18:B3:2349:G:H4'	29:BJ:15:LYS:HZ3	1.24	0.96
6:AE:160:LYS:HD3	8:AH:78:PHE:CZ	2.00	0.96
6:AE:219:ASN:HB2	8:AH:76:PRO:CG	1.95	0.96
27:BH:170:LYS:H	27:BH:170:LYS:HD3	1.29	0.96
1:AA:20:U:O4'	1:AA:573:A:N6	1.98	0.96
18:B3:905:C:N3	18:B3:1330:A:N9	2.14	0.96
7:AG:208:TYR:CD2	7:AG:212:LYS:HE3	2.01	0.96
1:AA:1014:A:OP2	17:AS:72:LYS:CE	2.14	0.95
18:B3:2424:U:O2'	36:BQ:6:GLY:CA	2.14	0.95
1:AA:318:G:N2	1:AA:1434:A:N3	2.13	0.95
18:B3:2053:G:N7	33:BN:24:SER:OG	1.98	0.95
18:B3:1370:G:H8	33:BN:62:PHE:CE1	1.75	0.95
18:B3:1334:C:C2'	42:B0:98:HIS:H	1.71	0.95
18:B3:1167:G:O2'	30:BK:111:GLU:N	1.99	0.95
18:B3:2093:G:H1'	22:BC:252:GLY:C	1.86	0.95
31:BL:98:ARG:HG2	31:BL:119:TRP:HE1	1.29	0.95
18:B3:1707:G:O2'	35:BP:81:LYS:CD	2.11	0.95
18:B3:925:C:H4'	41:BV:28:PRO:HG2	1.43	0.95
3:AB:84:ALA:HB1	3:AB:88:PHE:CE2	2.00	0.95
6:AE:155:THR:OG1	8:AH:97:GLN:O	1.82	0.95
27:BH:42:ASP:H	32:BM:124:ARG:C	1.69	0.95
1:AA:779:C:C4'	11:AK:132:ARG:C	2.34	0.95
1:AA:1405:G:C8	1:AA:1519:A:C4'	2.43	0.95
1:AA:1322:C:OP2	13:AM:138:THR:HG21	1.66	0.95
18:B3:2415:A:H1'	24:BE:39:GLN:OE1	1.59	0.95
34:BO:124:LEU:HD12	34:BO:127:LEU:HB3	1.48	0.95
37:BR:85:TRP:HB3	37:BR:86:ARG:HD3	1.48	0.95
31:BL:53:LYS:HE2	31:BL:58:PHE:CE2	2.01	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1794:G:O3'	35:BP:96:ARG:HG3	1.65	0.95
1:AA:560:U:O4'	1:AA:563:A:C5'	2.14	0.95
6:AE:215:VAL:O	8:AH:129:TYR:CD2	2.18	0.95
1:AA:31:G:N1	1:AA:48:C:OP1	1.98	0.95
1:AA:66:G:H5''	1:AA:173:U:N3	1.77	0.95
1:AA:20:U:C5'	1:AA:573:A:H61	1.80	0.95
1:AA:404:U:H1'	5:AD:21:SER:O	1.64	0.95
1:AA:121:C:C5	1:AA:235:C:C4	2.53	0.95
15:AO:114:LEU:HD12	15:AO:117:ILE:HD11	1.46	0.95
18:B3:521:A:P	42:B0:26:HIS:HE2	1.90	0.95
18:B3:2370:A:N6	36:BQ:49:GLN:NE2	2.14	0.95
1:AA:1329:A:H61	13:AM:94:ASP:HA	1.30	0.95
9:AI:30:VAL:HG13	9:AI:38:VAL:HG21	1.46	0.95
19:B4:5:G:N2	24:BE:71:GLY:O	1.99	0.95
19:B4:119:C:N1	24:BE:71:GLY:C	2.19	0.95
18:B3:1164:U:N1	30:BK:51:LYS:CB	2.29	0.95
18:B3:1875:A:O5'	21:BB:150:PRO:HG3	1.66	0.95
18:B3:1855:G:O6	21:BB:150:PRO:CG	2.13	0.95
22:BC:88:VAL:H	22:BC:104:VAL:HG21	1.28	0.95
22:BC:69:ARG:CD	37:BR:88:ARG:HD2	1.96	0.95
10:AJ:70:THR:HB	14:AN:40:GLN:C	1.85	0.95
1:AA:99:C:H1'	1:AA:101:A:C6	2.01	0.95
2:AT:463:LEU:HA	2:AT:513:LYS:HZ3	0.99	0.95
18:B3:78:G:O2'	40:BU:27:ARG:CZ	2.13	0.95
1:AA:546:G:H5'	1:AA:549:C:H5'	1.45	0.95
18:B3:881:C:O2	45:BY:7:PHE:HE2	1.38	0.95
1:AA:1302:U:C5'	13:AM:54:LEU:CD2	2.44	0.95
18:B3:671:A:O3'	23:BD:212:ASN:O	1.84	0.95
18:B3:1285:U:C5'	25:BF:155:ILE:CD1	2.37	0.95
19:B4:85:A:C5'	25:BF:131:PRO:HB2	1.88	0.95
25:BF:180:ILE:HD12	25:BF:182:ASP:H	1.31	0.95
18:B3:2845:G:H4'	22:BC:24:ILE:HG22	1.44	0.95
18:B3:925:C:H4'	41:BV:28:PRO:HG3	0.96	0.95
29:BJ:165:LYS:HG2	29:BJ:166:TYR:CD2	2.01	0.95
20:BA:55:LEU:CD1	20:BA:158:GLN:H	1.78	0.95
18:B3:123:U:OP1	39:BT:87:MET:HB2	1.40	0.95
5:AD:92:LYS:N	6:AE:174:GLY:HA2	1.80	0.95
6:AE:216:ALA:O	8:AH:129:TYR:CD2	2.04	0.95
18:B3:2579:G:H4'	18:B3:2680:A:C4	2.02	0.95
18:B3:1118:A:C4'	18:B3:1228:C:C5	2.49	0.95
1:AA:1406:U:C2	1:AA:1518:A:C4'	2.49	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:924:C:H1'	1:AA:1398:A:H2'	1.49	0.95
18:B3:1267:C:O3'	42:B0:61:LYS:CG	2.14	0.95
1:AA:988:G:O2'	1:AA:1015:A:OP2	1.84	0.95
1:AA:989:C:N1	1:AA:1016:A:C4	2.21	0.95
1:AA:1176:A:O4'	9:AI:108:PHE:CD1	2.17	0.95
33:BN:117:GLN:HG3	33:BN:145:ILE:CB	1.96	0.95
18:B3:1164:U:H5'	30:BK:47:ALA:C	1.85	0.95
18:B3:1132:A:HO2'	18:B3:2521:A:C5'	0.85	0.95
22:BC:161:VAL:HG23	22:BC:177:LEU:HB3	1.46	0.95
26:BG:158:PRO:HG2	31:BL:40:ARG:NH2	1.81	0.95
18:B3:2335:C:N1	29:BJ:116:ASP:CG	2.05	0.95
6:AE:157:THR:HG21	8:AH:129:TYR:CD1	2.01	0.95
3:AB:141:PRO:CA	8:AH:68:LEU:CD1	2.43	0.95
1:AA:362:G:O2'	12:AL:78:LYS:HA	1.66	0.95
1:AA:67:C:C4	1:AA:70:G:C5	2.55	0.95
27:BH:103:ILE:HG21	27:BH:134:ILE:HG21	1.48	0.95
27:BH:99:ILE:HD11	27:BH:114:VAL:HG12	1.46	0.95
1:AA:1404:C:C2'	1:AA:1519:A:C4'	2.34	0.95
18:B3:1687:C:HO2'	45:BY:8:GLY:HA3	1.14	0.95
18:B3:220:C:C2	41:BV:54:LYS:NZ	2.34	0.95
20:BA:53:LEU:HD22	20:BA:189:PHE:CZ	2.02	0.95
42:B0:19:ARG:HG2	42:B0:33:ARG:H	1.30	0.95
18:B3:618:G:C1'	42:B0:46:PHE:O	2.15	0.95
24:BE:16:PHE:CG	36:BQ:19:PHE:HZ	1.84	0.95
23:BD:171:VAL:HG23	23:BD:173:ALA:H	1.27	0.95
18:B3:763:C:O2	23:BD:86:GLN:CD	2.02	0.95
18:B3:1206:C:N1	18:B3:1207:A:N7	2.13	0.95
18:B3:1732:A:C1'	18:B3:2840:A:P	2.53	0.95
18:B3:2334:C:C4	29:BJ:115:TYR:N	2.21	0.95
20:BA:56:PRO:HB2	20:BA:155:ILE:HD13	1.48	0.95
27:BH:54:LYS:HD3	27:BH:72:LYS:HE2	1.49	0.95
2:AT:501:LEU:HD12	12:AL:99:ASN:HB2	1.03	0.95
1:AA:1249:C:C2'	9:AI:72:GLY:HA2	1.96	0.95
7:AG:111:ARG:HH22	9:AI:41:GLU:CD	1.70	0.95
18:B3:1348:A:H5'	23:BD:241:ALA:HB1	1.48	0.95
25:BF:179:SER:HA	25:BF:183:LEU:HD21	1.49	0.95
1:AA:190(E):U:C5'	16:AQ:109:HIS:CG	2.29	0.95
18:B3:2133:U:H4'	18:B3:2134:G:C4'	1.95	0.95
39:BT:82:VAL:HB	39:BT:83:PHE:CD1	2.02	0.95
10:AJ:70:THR:HG22	14:AN:40:GLN:H	1.32	0.95
1:AA:363:A:C2'	12:AL:49:ALA:HA	1.55	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:65:U:P	1:AA:96:G:H3'	2.04	0.95
18:B3:2560:C:H1'	18:B3:2776:A:N3	1.80	0.95
1:AA:706:A:H5'	11:AK:23:ASN:HD22	1.29	0.95
4:AC:105:LYS:HE3	4:AC:183:ILE:HB	1.47	0.95
18:B3:537:G:C4'	42:B0:21:HIS:NE2	2.29	0.95
1:AA:1177:G:O3'	9:AI:105:LYS:HG2	1.65	0.95
9:AI:28:ILE:HD13	9:AI:48:TYR:CZ	2.01	0.95
19:B4:59:C:OP1	24:BE:25:GLU:HG3	1.66	0.95
19:B4:6:C:N1	24:BE:72:ASP:OD2	1.98	0.95
33:BN:59:PHE:HE1	33:BN:79:LYS:HE2	1.32	0.95
18:B3:1349:G:O3'	23:BD:40:SER:O	1.85	0.95
23:BD:192:LYS:HE2	23:BD:193:TYR:HD1	1.29	0.95
23:BD:149:LEU:HG	23:BD:248:ILE:HG13	1.47	0.95
18:B3:111:C:C2'	18:B3:119:A:N6	2.26	0.95
18:B3:170:U:H6	46:BZ:49:PHE:CE2	1.84	0.95
21:BB:186:HIS:CD2	21:BB:187:LYS:HG2	2.01	0.95
18:B3:953:G:P	36:BQ:13:TYR:HB2	2.05	0.95
22:BC:359:ASP:N	38:BS:16:GLY:H	1.65	0.95
18:B3:2737:C:H5''	35:BP:59:LYS:N	1.81	0.95
18:B3:1789:G:HO2'	18:B3:2877:G:H1'	1.20	0.95
18:B3:1787:C:P	35:BP:73:ARG:HH21	1.87	0.95
18:B3:924:G:N1	41:BV:41:ARG:HB2	1.79	0.95
18:B3:1449:G:H5'	39:BT:110:ASN:HD22	1.21	0.95
8:AH:13:ILE:HD11	8:AH:26:ILE:HD12	1.47	0.95
18:B3:1118:A:O4'	18:B3:1227:C:C5	2.20	0.95
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.64	0.95
18:B3:1232:A:O2'	18:B3:2525:G:OP1	1.85	0.95
1:AA:1406:U:O4'	1:AA:1518:A:H5''	1.67	0.95
18:B3:81:G:C5'	40:BU:73:VAL:C	2.27	0.95
1:AA:21:G:C4'	1:AA:885:G:C5'	2.45	0.95
18:B3:1268:C:H5'	42:B0:61:LYS:HB3	1.47	0.95
1:AA:970:C:H41	9:AI:142:ARG:HE	1.03	0.95
1:AA:1290:G:H5''	7:AG:108:LYS:CE	1.95	0.95
9:AI:29:LYS:HE3	9:AI:65:ARG:HG3	1.48	0.95
18:B3:2328:U:C5'	24:BE:153:THR:OG1	2.14	0.95
18:B3:677:C:C2'	23:BD:256:LYS:HG2	1.96	0.95
18:B3:120:A:O2'	45:BY:17:LEU:HD12	1.66	0.95
25:BF:93:LYS:HG2	25:BF:94:ILE:HG23	1.48	0.95
18:B3:2809:G:H4'	22:BC:16:LEU:O	1.66	0.95
18:B3:2673:U:H1'	22:BC:98:LEU:HD23	1.45	0.95
37:BR:9:THR:HG23	37:BR:11:PHE:H	1.26	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:95:PHE:HZ	38:BS:23:ARG:HG2	1.21	0.95
18:B3:2346:C:H5''	29:BJ:47:SER:N	1.82	0.95
20:BA:55:LEU:HD12	20:BA:158:GLN:N	1.82	0.95
4:AC:76:PHE:CD2	4:AC:83:ILE:HD11	2.02	0.95
5:AD:92:LYS:HA	6:AE:174:GLY:HA2	1.48	0.95
1:AA:31:G:C6	1:AA:48:C:OP1	2.20	0.95
18:B3:2560:C:H5'	27:BH:168:ARG:CG	1.97	0.95
27:BH:75:VAL:HA	27:BH:78:MET:HG2	1.48	0.95
18:B3:215:A:H4'	41:BV:58:ARG:HE	1.25	0.95
18:B3:1380:U:C3'	43:BW:25:LYS:NZ	2.23	0.95
18:B3:1398:G:O4'	35:BP:25:PRO:CG	2.15	0.95
18:B3:1772:C:C5'	47:B9:15:VAL:HG12	1.97	0.95
1:AA:1179:A:H5'	9:AI:116:LEU:O	1.50	0.95
1:AA:320:C:C4'	1:AA:1436:U:C2	2.37	0.95
18:B3:518:G:H5''	18:B3:1338:U:H1'	1.45	0.95
18:B3:35:U:O2'	23:BD:48:ALA:CA	2.15	0.95
18:B3:2468:A:C6	46:BZ:55:PRO:CD	2.48	0.95
37:BR:54:LEU:HD21	37:BR:81:GLN:HB2	1.49	0.95
18:B3:1788:U:O2'	18:B3:2882:G:C4	2.07	0.95
6:AE:219:ASN:HB2	8:AH:76:PRO:HG2	1.46	0.95
2:AT:141:THR:HG23	2:AT:483:PHE:HB3	0.97	0.95
1:AA:777:A:H2'	11:AK:126:ARG:HD3	1.48	0.95
18:B3:903:U:O4	41:BV:15:SER:CB	2.15	0.95
21:BB:38:GLY:HA2	21:BB:90:GLY:HA3	1.46	0.95
24:BE:148:ILE:HG22	24:BE:159:VAL:HG11	1.49	0.94
18:B3:1855:G:O2'	21:BB:155:LYS:HD3	0.77	0.94
18:B3:948:G:N3	36:BQ:100:LYS:HD3	1.79	0.94
19:B4:97:U:H3	25:BF:220:LYS:CD	1.67	0.94
18:B3:953:G:H5''	36:BQ:13:TYR:HD2	1.29	0.94
22:BC:238:PRO:HB2	22:BC:240:LYS:HE2	1.45	0.94
22:BC:260:MET:CE	32:BM:66:THR:HG23	1.97	0.94
37:BR:91:VAL:HG21	38:BS:17:ARG:HA	1.45	0.94
26:BG:115:VAL:HG21	26:BG:213:LEU:HB2	1.46	0.94
18:B3:251:C:O3'	31:BL:139:LYS:HG2	1.66	0.94
2:AT:463:LEU:CA	2:AT:513:LYS:HZ2	1.73	0.94
1:AA:920:U:C5'	1:AA:1080:A:N3	2.22	0.94
1:AA:1406:U:C1'	1:AA:1518:A:H5''	1.95	0.94
2:AT:757:GLU:HB3	18:B3:1171:A:HO2'	1.16	0.94
1:AA:958:A:C2	17:AS:102:PHE:HD1	1.85	0.94
18:B3:2415:A:C2	24:BE:35:ARG:CZ	2.49	0.94
18:B3:501:G:O2'	33:BN:15:SER:N	2.00	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:516:A:C1'	18:B3:1340:G:H5''	1.95	0.94
18:B3:2100:A:O4'	23:BD:68:ARG:CD	2.15	0.94
47:B9:48:ARG:HA	47:B9:54:TRP:CB	1.97	0.94
1:AA:190(E):U:C2	16:AQ:131:SER:HB2	1.99	0.94
18:B3:1786:C:C4	18:B3:2883:A:H4'	2.01	0.94
18:B3:2737:C:C6	35:BP:60:SER:HB2	2.01	0.94
18:B3:2737:C:H6	35:BP:61:ARG:N	1.56	0.94
18:B3:2345:A:C1'	29:BJ:23:GLY:N	2.22	0.94
1:AA:35:G:H4'	12:AL:128:SER:CA	1.96	0.94
2:AT:463:LEU:HD21	2:AT:467:GLY:HA3	1.49	0.94
27:BH:11:GLU:HA	27:BH:52:LEU:CB	1.98	0.94
35:BP:16:VAL:HB	35:BP:20:LYS:CD	1.97	0.94
1:AA:1493:A:C2'	1:AA:1494:G:H5'	1.96	0.94
1:AA:1404:C:O2'	1:AA:1520:G:OP2	1.83	0.94
18:B3:445:U:OP1	40:BU:14:LYS:HG3	1.67	0.94
1:AA:754:C:C6	15:AO:127:TYR:CE2	2.55	0.94
1:AA:555:C:OP2	12:AL:38:PHE:CE2	2.20	0.94
6:AE:86:GLN:HA	6:AE:95:THR:HG22	1.47	0.94
1:AA:1319:A:P	17:AS:84:ILE:HB	2.07	0.94
13:AM:92:ILE:HG13	13:AM:123:ARG:HH21	1.27	0.94
1:AA:1224:G:C3'	17:AS:122:THR:OG1	1.97	0.94
42:B0:19:ARG:HD3	42:B0:20:HIS:H	1.30	0.94
18:B3:2061:C:H5'	42:B0:24:ARG:HD2	0.95	0.94
1:AA:1151:A:C5	10:AJ:57:ARG:NH2	2.35	0.94
18:B3:1311:G:O6	23:BD:185:LYS:C	2.05	0.94
18:B3:1164:U:H5	30:BK:49:ALA:C	1.69	0.94
18:B3:693:A:H4'	41:BV:59:TYR:HE1	1.30	0.94
18:B3:1133:A:N1	18:B3:2500:C:O2	1.98	0.94
18:B3:2652:U:O2	22:BC:257:ALA:HB1	0.76	0.94
26:BG:157:ASP:OD2	31:BL:40:ARG:CD	2.14	0.94
18:B3:898:G:P	41:BV:25:ARG:HG3	2.06	0.94
14:AN:37:ILE:H	14:AN:41:CYS:HB2	1.33	0.94
1:AA:99:C:H1'	1:AA:101:A:N6	1.81	0.94
1:AA:1075:C:H5''	3:AB:102:THR:HA	1.49	0.94
18:B3:2552:C:H5''	18:B3:2553:A:C2	1.95	0.94
1:AA:321:A:H5''	1:AA:1437:C:C5'	1.87	0.94
1:AA:43:C:O2'	1:AA:623:C:O2'	1.77	0.94
18:B3:326:G:H1	18:B3:330:C:H5	1.03	0.94
18:B3:282:C:H1'	18:B3:368:C:N4	1.82	0.94
1:AA:1307:U:H5'	13:AM:144:ARG:HG2	1.48	0.94
24:BE:16:PHE:HA	36:BQ:19:PHE:HZ	1.22	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1348:A:O2'	23:BD:39:THR:CA	2.12	0.94
18:B3:1164:U:OP1	30:BK:50:THR:CA	2.16	0.94
18:B3:1855:G:N1	21:BB:150:PRO:HD2	1.82	0.94
25:BF:91:ILE:HG13	25:BF:99:ARG:HG3	1.46	0.94
18:B3:2678:A:HO2'	22:BC:13:LEU:HB2	1.28	0.94
18:B3:2109:U:C6	41:BV:40:HIS:NE2	2.34	0.94
39:BT:109:VAL:CB	39:BT:123:VAL:HG22	1.98	0.94
5:AD:132:ARG:HB3	5:AD:140:ILE:HD11	1.48	0.94
1:AA:554:C:C6	12:AL:45:GLY:HA3	2.02	0.94
18:B3:2565:C:N3	27:BH:171:ASP:CG	2.20	0.94
1:AA:778:G:O4'	11:AK:126:ARG:HD3	1.62	0.94
1:AA:144:G:C2	1:AA:199:G:OP1	2.20	0.94
18:B3:1381:A:C8	43:BW:25:LYS:HD2	2.01	0.94
18:B3:905:C:C5'	41:BV:11:ARG:CD	2.36	0.94
1:AA:111:G:N3	1:AA:389:A:C5'	2.29	0.94
18:B3:1147:C:H2'	18:B3:1148:C:H5''	1.46	0.94
1:AA:1309:G:C4'	13:AM:91:ASP:HB2	1.97	0.94
10:AJ:32:LYS:HE3	10:AJ:32:LYS:HA	1.46	0.94
10:AJ:96:PRO:HA	10:AJ:99:ILE:HD11	1.50	0.94
18:B3:500:G:H2'	33:BN:16:ALA:HB1	1.47	0.94
18:B3:1311:G:N7	23:BD:185:LYS:HB3	1.76	0.94
19:B4:99:U:O2'	25:BF:130:GLU:OE2	1.83	0.94
18:B3:107:U:C2'	44:BX:56:THR:HG22	1.97	0.94
18:B3:1742:A:H5'	18:B3:2723:G:O3'	1.66	0.94
22:BC:71:VAL:H	37:BR:88:ARG:HA	1.30	0.94
18:B3:2737:C:C4	35:BP:61:ARG:NE	2.14	0.94
18:B3:2336:G:O3'	29:BJ:101:PHE:CG	2.21	0.94
35:BP:43:LEU:HG	35:BP:49:ILE:CG1	1.96	0.94
43:BW:58:ILE:HG23	43:BW:59:TRP:CD1	2.03	0.94
1:AA:958:A:C5	17:AS:101:ALA:CB	2.45	0.94
1:AA:958:A:N9	17:AS:101:ALA:HB1	1.82	0.94
1:AA:1220:G:N2	17:AS:102:PHE:HB3	1.81	0.94
19:B4:14:G:C2	24:BE:12:TYR:HA	1.98	0.94
34:BO:62:VAL:HG21	34:BO:87:VAL:HG23	1.48	0.94
18:B3:1875:A:C2'	21:BB:150:PRO:CG	2.41	0.94
19:B4:85:A:C4'	25:BF:228:PHE:CZ	2.50	0.94
19:B4:87:U:H6	25:BF:217:ARG:NH2	1.37	0.94
18:B3:93:C:H5'	44:BX:42:PRO:HB2	1.46	0.94
18:B3:2826:G:H2'	22:BC:123:LYS:HA	1.47	0.94
18:B3:2721:U:H5'	38:BS:19:THR:HG21	1.50	0.94
31:BL:66:ARG:HA	31:BL:126:TYR:CZ	2.03	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:16:PHE:HB3	4:AC:76:PHE:CZ	2.03	0.94
1:AA:400:C:H5''	5:AD:77:ILE:HD12	0.94	0.94
1:AA:619:U:H6	5:AD:142:ASN:HB2	1.23	0.94
5:AD:87:SER:HA	5:AD:93:LEU:HD13	1.49	0.94
1:AA:523:A:C2	12:AL:115:GLY:CA	2.50	0.94
1:AA:59:A:H4'	1:AA:388:G:C1'	1.97	0.94
41:BV:18:LYS:HE3	41:BV:20:ARG:HB2	1.46	0.94
18:B3:2705:U:H4'	27:BH:122:LYS:HZ1	1.22	0.94
1:AA:143:A:OP2	1:AA:201:C:N1	2.00	0.94
43:BW:17:LYS:HD3	43:BW:66:VAL:HG11	1.50	0.94
18:B3:2436:U:O3'	46:BZ:79:ARG:O	1.84	0.94
18:B3:2081:A:C1'	32:BM:69:PRO:CG	2.45	0.94
1:AA:1320:C:C2	17:AS:119:PHE:HD1	1.84	0.94
1:AA:1179:A:OP2	9:AI:116:LEU:CB	2.14	0.94
24:BE:16:PHE:HD1	36:BQ:19:PHE:CE1	1.85	0.94
19:B4:51:A:N6	24:BE:59:ASP:N	2.03	0.94
18:B3:706:G:N2	34:BO:72:LYS:HZ1	1.66	0.94
21:BB:50:ASP:HB2	21:BB:53:ARG:CD	1.98	0.94
25:BF:164:ASP:HB3	25:BF:180:ILE:HG23	1.48	0.94
18:B3:2820:A:H5'	22:BC:90:GLY:CA	1.97	0.94
22:BC:41:ALA:CA	22:BC:182:LEU:HB3	1.98	0.94
22:BC:94:THR:HB	22:BC:95:PRO:HA	1.49	0.94
28:BI:10:ARG:HH11	28:BI:10:ARG:HB3	1.33	0.94
26:BG:135:LEU:HD21	26:BG:165:LEU:HD21	1.47	0.94
18:B3:263:U:C4	26:BG:159:ILE:HG13	2.01	0.94
18:B3:1508:C:H5''	39:BT:78:GLY:H	1.23	0.94
4:AC:11:VAL:HG23	14:AN:33:TYR:O	1.67	0.94
4:AC:39:ARG:HE	10:AJ:110:PRO:HB3	1.30	0.94
2:AT:140:GLU:CB	2:AT:481:MET:N	2.31	0.94
18:B3:1139:U:C5'	27:BH:62:ARG:CG	2.44	0.94
40:BU:14:LYS:HD2	40:BU:17:LYS:CE	1.98	0.94
18:B3:1739:G:H4'	18:B3:2726:U:H3	1.32	0.94
4:AC:31:GLU:HG3	4:AC:57:VAL:HG23	1.47	0.94
20:BA:194:LEU:HD23	20:BA:200:ASN:HD21	1.33	0.94
1:AA:1220:G:N3	17:AS:77:ARG:HB2	1.83	0.94
1:AA:1179:A:P	9:AI:116:LEU:HD23	2.07	0.94
9:AI:6:VAL:CG2	9:AI:21:VAL:HB	1.97	0.94
24:BE:23:ARG:HA	24:BE:23:ARG:CZ	1.97	0.94
36:BQ:74:VAL:H	36:BQ:89:LEU:HB2	1.29	0.94
24:BE:16:PHE:CA	36:BQ:19:PHE:HE2	1.68	0.94
18:B3:500:G:N2	33:BN:96:ASN:HD21	1.52	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:672:G:N9	23:BD:214:ILE:HG22	1.83	0.94
18:B3:721:A:H5''	34:BO:71:LEU:HB3	1.49	0.94
18:B3:2122:C:H4'	31:BL:86:GLN:OE1	1.68	0.94
31:BL:82:LYS:CE	46:BZ:49:PHE:CG	2.11	0.94
18:B3:1183:C:O2'	30:BK:85:LEU:CD1	2.16	0.94
21:BB:62:PHE:HB2	21:BB:66:TYR:HD1	1.32	0.94
1:AA:190(E):U:OP1	16:AQ:130:ILE:CD1	2.10	0.94
18:B3:2809:G:H4'	22:BC:18:ARG:HH21	1.29	0.94
28:BI:50:VAL:HG13	28:BI:166:ILE:HD11	1.49	0.94
37:BR:95:PHE:CE2	38:BS:23:ARG:HG2	2.03	0.94
18:B3:1806:G:C2	18:B3:2884:G:O4'	2.20	0.94
18:B3:924:G:O6	41:BV:41:ARG:CB	2.09	0.94
18:B3:2333:G:N9	29:BJ:114:LYS:CG	2.20	0.94
20:BA:9:VAL:HG21	20:BA:180:VAL:HG13	1.48	0.94
39:BT:75:VAL:HG13	39:BT:81:LEU:CD1	1.97	0.94
1:AA:6:G:C4'	1:AA:298:A:C3'	2.38	0.94
1:AA:400:C:O3'	5:AD:77:ILE:CD1	2.15	0.94
1:AA:551:U:H4'	12:AL:107:PHE:CE2	2.03	0.94
18:B3:1119:G:H5'	32:BM:48:ARG:HE	0.78	0.94
1:AA:777:A:O2'	11:AK:126:ARG:N	1.99	0.94
1:AA:1345:U:C2	7:AG:76:TYR:CD1	2.56	0.94
1:AA:1404:C:H2'	1:AA:1519:A:H4'	0.94	0.94
2:AT:748:ASN:CB	18:B3:2508:C:H1'	1.95	0.94
1:AA:1484:C:P	18:B3:2001:G:C2	2.56	0.94
1:AA:924:C:C1'	1:AA:1398:A:N3	2.30	0.94
18:B3:1267:C:H4'	42:B0:61:LYS:HZ3	1.25	0.94
1:AA:125:U:C5'	1:AA:291:C:H4'	1.96	0.94
4:AC:165:ASP:HB3	4:AC:167:ILE:HG12	1.48	0.94
17:AS:64:LYS:HD2	17:AS:65:LEU:HD12	1.49	0.94
1:AA:1299:A:H4'	13:AM:26:ILE:HG13	1.50	0.94
19:B4:119:C:H1'	24:BE:73:VAL:N	1.80	0.94
18:B3:2424:U:H5''	36:BQ:7:TYR:CD2	2.02	0.94
34:BO:69:ARG:HH12	34:BO:92:ARG:HD3	1.32	0.94
18:B3:1163:G:H5'	30:BK:54:LYS:HB2	1.47	0.94
19:B4:85:A:O4'	25:BF:228:PHE:HZ	1.51	0.94
1:AA:190(D):U:N3	16:AQ:112:PRO:HD2	1.82	0.94
18:B3:1055:G:H4'	28:BI:111:LEU:O	1.67	0.94
18:B3:1055:G:N3	28:BI:108:ALA:CB	2.30	0.94
18:B3:2668:G:C4'	22:BC:128:ALA:HB1	1.98	0.94
18:B3:2768:A:H2'	18:B3:2769:C:O4'	1.66	0.94
22:BC:157:VAL:CG1	22:BC:182:LEU:HD21	1.98	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:69:ARG:CZ	28:BI:70:ILE:HG23	1.98	0.94
18:B3:2334:C:C1'	29:BJ:114:LYS:N	2.31	0.94
18:B3:1673:U:H5''	39:BT:109:VAL:HG22	1.47	0.94
6:AE:220:THR:OG1	8:AH:98:PHE:HD2	1.47	0.94
18:B3:1243:C:OP1	32:BM:42:ILE:HG22	1.66	0.94
32:BM:11:LYS:HD3	32:BM:36:ARG:HH11	1.33	0.94
1:AA:1075:C:H5''	3:AB:102:THR:CA	1.98	0.94
18:B3:2460:A:H5'	46:BZ:61:ALA:HA	1.50	0.94
1:AA:436:C:H5''	1:AA:496:A:OP1	1.68	0.94
18:B3:1235:G:O6	32:BM:69:PRO:CD	2.12	0.94
1:AA:1484:C:OP1	18:B3:2001:G:C2	2.20	0.94
32:BM:19:ALA:HB1	32:BM:83:LEU:HD23	1.50	0.94
1:AA:988:G:H5''	1:AA:1013:G:O3'	1.65	0.94
1:AA:1329:A:O4'	13:AM:98:TYR:HD1	1.48	0.94
18:B3:537:G:C2'	42:B0:41:VAL:CG1	2.45	0.94
18:B3:541:C:OP2	42:B0:16:LYS:C	2.07	0.94
9:AI:34:PRO:HG2	9:AI:37:LEU:HB2	1.48	0.94
18:B3:749:C:O2'	23:BD:113:ASN:CG	2.04	0.94
18:B3:1311:G:O6	23:BD:186:LEU:N	1.99	0.94
18:B3:706:G:H1	34:BO:72:LYS:HZ3	1.03	0.94
18:B3:52:A:C8	18:B3:121:U:O2	2.20	0.94
18:B3:1164:U:H2'	30:BK:51:LYS:HB3	1.45	0.94
18:B3:1861:C:C4'	21:BB:7:GLN:HA	1.98	0.94
18:B3:1286:A:P	25:BF:155:ILE:CG2	2.54	0.94
1:AA:538:G:P	12:AL:142:LYS:CG	2.55	0.94
22:BC:356:LYS:HG3	22:BC:357:TRP:CD1	2.03	0.94
18:B3:2136:G:N1	18:B3:2238:A:N6	2.15	0.94
31:BL:22:GLN:HA	31:BL:25:ARG:HG3	1.49	0.94
3:AB:141:PRO:HG3	8:AH:68:LEU:CD2	1.97	0.94
32:BM:17:ARG:HB2	32:BM:121:GLN:HG2	1.50	0.94
18:B3:1245:C:N4	32:BM:124:ARG:HD2	1.82	0.94
35:BP:44:VAL:HA	35:BP:49:ILE:HB	1.49	0.94
18:B3:2460:A:OP2	46:BZ:66:LYS:NZ	2.00	0.94
1:AA:358:U:O2'	2:AT:391:LYS:N	1.91	0.94
1:AA:1503:A:O2'	1:AA:1507:A:OP1	1.86	0.94
18:B3:2222:C:C5'	20:BA:215:ARG:NH2	2.30	0.94
6:AE:107:ASN:CG	6:AE:143:TRP:N	2.17	0.94
36:BQ:11:THR:HG23	36:BQ:12:ARG:H	1.33	0.94
1:AA:1301:U:OP2	13:AM:40:ARG:HG2	1.67	0.93
1:AA:1220:G:H5'	17:AS:59:LYS:HB2	1.48	0.93
18:B3:620:A:C3'	42:B0:40:SER:CB	2.46	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1249:C:H1'	9:AI:73:HIS:ND1	1.82	0.93
19:B4:8:G:C5	24:BE:21:ARG:HD3	2.03	0.93
19:B4:68:G:H22	24:BE:11:ALA:CB	1.73	0.93
23:BD:177:LEU:HB3	23:BD:205:LEU:HD21	1.48	0.93
21:BB:180:LYS:HE2	21:BB:181:ALA:CB	1.98	0.93
19:B4:85:A:O2'	25:BF:228:PHE:HE1	1.42	0.93
31:BL:154:VAL:CG1	31:BL:158:ARG:HA	1.98	0.93
18:B3:1708:C:H5	35:BP:81:LYS:CG	1.76	0.93
1:AA:6:G:H4'	1:AA:298:A:O3'	0.77	0.93
3:AB:153:GLU:OE1	8:AH:19:THR:C	2.00	0.93
1:AA:1075:C:C5'	3:AB:103:PRO:CD	2.21	0.93
1:AA:1505:G:C5'	1:AA:1506:U:O2	2.02	0.93
1:AA:121:C:C2	1:AA:235:C:N4	2.35	0.93
20:BA:32:VAL:HG13	20:BA:169:VAL:HG23	1.50	0.93
18:B3:1352:A:H4'	23:BD:102:THR:CB	1.97	0.93
18:B3:25:A:N3	18:B3:1320:U:H4'	1.83	0.93
18:B3:35:U:C4'	23:BD:104:THR:OG1	2.16	0.93
18:B3:1350:U:H6	23:BD:43:LYS:HD2	1.16	0.93
18:B3:170:U:C6	46:BZ:49:PHE:CE2	2.55	0.93
18:B3:1183:C:O3'	30:BK:85:LEU:CD1	2.16	0.93
21:BB:56:PRO:CD	47:B9:51:ALA:CB	2.46	0.93
1:AA:131:C:H4'	1:AA:264:U:H4'	0.95	0.93
18:B3:1735:C:H5''	22:BC:244:GLY:HA2	1.50	0.93
37:BR:95:PHE:HB3	38:BS:22:VAL:HG12	0.96	0.93
35:BP:61:ARG:HA	35:BP:61:ARG:CZ	1.98	0.93
18:B3:922:A:P	41:BV:41:ARG:HE	1.81	0.93
18:B3:2336:G:N7	29:BJ:118:SER:CB	2.32	0.93
18:B3:2215:A:H5'	20:BA:107:TYR:CD2	1.94	0.93
10:AJ:72:ASN:OD1	14:AN:25:SER:O	1.87	0.93
1:AA:553:A:H2'	12:AL:45:GLY:N	1.82	0.93
18:B3:2565:C:N4	27:BH:171:ASP:CB	2.31	0.93
32:BM:39:GLU:HA	32:BM:137:LEU:HD23	1.50	0.93
1:AA:1406:U:C2	1:AA:1518:A:O4'	2.21	0.93
32:BM:63:PHE:CD2	32:BM:64:ASN:HB2	2.03	0.93
1:AA:125:U:H4'	1:AA:291:C:H4'	1.45	0.93
1:AA:988:G:C4	1:AA:1015:A:C5	2.55	0.93
1:AA:1298:C:P	13:AM:55:HIS:O	2.27	0.93
1:AA:985:C:C4	17:AS:77:ARG:NH2	2.36	0.93
24:BE:106:ALA:HB1	24:BE:110:LEU:HD22	1.50	0.93
24:BE:16:PHE:CD1	36:BQ:19:PHE:HZ	1.78	0.93
1:AA:318:G:O4'	1:AA:1468:A:H4'	1.67	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:79:VAL:CG2	42:B0:109:LEU:HD22	1.98	0.93
23:BD:245:ARG:HA	23:BD:245:ARG:CZ	1.98	0.93
18:B3:782:G:H5''	21:BB:189:ARG:NH1	1.84	0.93
18:B3:1900:A:H5''	21:BB:238:ALA:HB1	1.51	0.93
25:BF:152:PHE:H	25:BF:162:LEU:HG	1.32	0.93
1:AA:190(C):C:N4	16:AQ:112:PRO:HD3	1.84	0.93
18:B3:2820:A:C5'	22:BC:90:GLY:H	1.81	0.93
1:AA:402:G:C4'	1:AA:620:C:H2'	1.97	0.93
3:AB:140:ILE:C	8:AH:68:LEU:HD11	1.87	0.93
1:AA:553:A:P	12:AL:40:SER:CB	2.56	0.93
27:BH:20:ILE:HG13	27:BH:25:VAL:H	1.33	0.93
18:B3:2460:A:H5''	46:BZ:61:ALA:CA	1.98	0.93
18:B3:99:A:N6	40:BU:24:SER:O	2.01	0.93
2:AT:466:THR:CG2	2:AT:516:PRO:HG3	1.99	0.93
20:BA:53:LEU:HD22	20:BA:189:PHE:CE1	2.02	0.93
36:BQ:75:ILE:HB	36:BQ:89:LEU:HA	1.50	0.93
18:B3:764:C:C1'	23:BD:86:GLN:CG	2.46	0.93
18:B3:1358:A:C2'	23:BD:92:MET:HG2	1.96	0.93
18:B3:764:C:OP1	23:BD:98:MET:CG	2.15	0.93
18:B3:1167:G:O2'	30:BK:110:ILE:O	1.85	0.93
30:BK:113:ALA:HB1	30:BK:128:VAL:HG23	1.48	0.93
1:AA:190(D):U:N3	16:AQ:112:PRO:CD	2.31	0.93
18:B3:2546:U:O2'	22:BC:246:ARG:NH2	2.02	0.93
18:B3:2244:A:H5''	31:BL:27:TRP:HH2	1.15	0.93
18:B3:251:C:O2'	31:BL:139:LYS:HE2	1.68	0.93
18:B3:2214:A:C2	20:BA:105:LYS:NZ	2.34	0.93
1:AA:55:A:H2	2:AT:67:GLY:C	1.66	0.93
18:B3:2222:C:H5''	20:BA:215:ARG:NH2	1.83	0.93
1:AA:1221:G:O2'	17:AS:101:ALA:O	1.85	0.93
18:B3:537:G:O3'	42:B0:21:HIS:CD2	2.21	0.93
1:AA:1177:G:H4'	9:AI:105:LYS:CE	1.98	0.93
18:B3:2413:A:H2	24:BE:145:PHE:CD2	1.87	0.93
19:B4:69:U:H5'	24:BE:13:SER:CB	1.81	0.93
19:B4:69:U:C2'	24:BE:14:SER:OG	2.16	0.93
18:B3:1335:C:H3'	42:B0:98:HIS:HA	1.49	0.93
23:BD:207:VAL:HG12	23:BD:247:VAL:HA	1.46	0.93
18:B3:634:G:O2'	23:BD:91:ASN:ND2	2.02	0.93
18:B3:1167:G:N3	30:BK:110:ILE:HG21	1.83	0.93
22:BC:228:VAL:HG23	22:BC:234:THR:HG21	1.51	0.93
18:B3:2653:A:H5'	22:BC:257:ALA:N	1.83	0.93
26:BG:113:ALA:HB1	26:BG:151:LEU:HD22	1.51	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1809:G:N3	18:B3:2732:U:H5'	1.83	0.93
18:B3:2737:C:C5	35:BP:61:ARG:HE	1.26	0.93
18:B3:2336:G:N7	29:BJ:118:SER:HB2	1.83	0.93
29:BJ:162:PHE:HA	29:BJ:165:LYS:HD3	1.50	0.93
39:BT:87:MET:HA	39:BT:119:LYS:CG	1.98	0.93
2:AT:465:LYS:HZ1	2:AT:511:LEU:CB	1.82	0.93
1:AA:678:U:H2'	11:AK:125:THR:HB	1.47	0.93
1:AA:778:G:O4'	11:AK:126:ARG:CD	2.07	0.93
46:BZ:68:VAL:HG13	46:BZ:69:LEU:H	1.33	0.93
1:AA:121:C:C6	1:AA:235:C:N4	2.29	0.93
32:BM:7:VAL:CB	32:BM:115:LYS:HG2	1.97	0.93
1:AA:134:A:N3	1:AA:325:A:C4'	2.24	0.93
17:AS:80:MET:CE	17:AS:83:MET:HB2	1.99	0.93
9:AI:96:VAL:HG11	9:AI:100:SER:HB2	1.49	0.93
36:BQ:57:TYR:HD2	36:BQ:76:ILE:HG21	1.32	0.93
18:B3:27:U:C4'	18:B3:1319:G:O4'	2.09	0.93
18:B3:2275:G:C5'	31:BL:78:ALA:HA	1.99	0.93
18:B3:1180:C:C2	30:BK:110:ILE:CD1	2.51	0.93
18:B3:1869:A:H2'	21:BB:192:ARG:HH22	1.29	0.93
18:B3:1652:C:H5'	21:BB:174:VAL:HG13	1.51	0.93
18:B3:2442:G:C5'	41:BV:60:PHE:HE2	1.81	0.93
18:B3:2806:C:O3'	22:BC:343:THR:OG1	1.85	0.93
22:BC:52:MET:HB2	22:BC:76:THR:HA	1.48	0.93
37:BR:85:TRP:HB3	37:BR:86:ARG:CD	1.98	0.93
26:BG:162:VAL:HA	26:BG:165:LEU:HD23	1.51	0.93
31:BL:25:ARG:HD2	31:BL:26:VAL:HB	1.50	0.93
18:B3:1809:G:C4'	18:B3:2731:G:C5'	2.46	0.93
29:BJ:53:VAL:CB	29:BJ:56:PHE:HB2	1.97	0.93
12:AL:107:PHE:HB3	12:AL:123:LYS:HD2	1.47	0.93
1:AA:70:G:H21	1:AA:101:A:H61	1.01	0.93
18:B3:1380:U:H3'	43:BW:25:LYS:NZ	1.84	0.93
18:B3:2408:A:O2'	46:BZ:19:HIS:CG	2.22	0.93
1:AA:1117:G:O2'	9:AI:120:SER:CA	2.15	0.93
18:B3:1235:G:C6	32:BM:69:PRO:HD3	1.95	0.93
1:AA:1501:C:OP1	1:AA:1508:G:C1'	1.79	0.93
11:AK:26:PHE:CE1	11:AK:39:ALA:HB1	2.02	0.93
1:AA:1219:U:H2'	17:AS:78:THR:CB	1.98	0.93
1:AA:1299:A:HO2'	13:AM:30:TYR:CB	1.78	0.93
1:AA:1329:A:N6	13:AM:94:ASP:C	2.05	0.93
33:BN:134:ARG:CZ	33:BN:134:ARG:HA	1.98	0.93
24:BE:30:TYR:CE1	24:BE:33:ARG:HD3	2.04	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:26:LYS:H	33:BN:28:THR:HG22	1.34	0.93
18:B3:1099:G:H3'	19:B4:87:U:H3	1.31	0.93
18:B3:2468:A:N1	46:BZ:54:LYS:HB3	1.59	0.93
18:B3:2722:G:H5'	37:BR:94:TYR:CE2	2.03	0.93
18:B3:2736:U:C2'	35:BP:61:ARG:HB2	1.97	0.93
18:B3:2165:G:O2'	20:BA:33:GLU:HG3	1.67	0.93
20:BA:60:ARG:HG3	20:BA:61:PRO:HD3	1.49	0.93
18:B3:1673:U:H5'	39:BT:109:VAL:HG13	1.50	0.93
1:AA:860:A:O2'	8:AH:18:LYS:NZ	2.00	0.93
1:AA:66:G:C6	1:AA:69:G:O6	2.21	0.93
18:B3:2579:G:H5'	18:B3:2680:A:C4'	1.98	0.93
27:BH:116:ASN:CB	27:BH:119:GLY:HA2	1.97	0.93
27:BH:57:VAL:HG11	32:BM:126:LEU:CG	1.99	0.93
18:B3:1381:A:H8	43:BW:25:LYS:CD	1.75	0.93
40:BU:57:LEU:CG	40:BU:105:VAL:HB	1.99	0.93
1:AA:21:G:O3'	1:AA:885:G:OP2	1.85	0.93
1:AA:359:U:H5'	2:AT:391:LYS:HA	0.94	0.93
11:AK:37:THR:CG2	11:AK:73:VAL:HG21	1.98	0.93
9:AI:8:THR:CG2	9:AI:19:ALA:HB3	1.99	0.93
33:BN:115:HIS:CB	33:BN:148:VAL:HG21	1.97	0.93
18:B3:1309:U:H5	23:BD:202:ARG:O	1.41	0.93
18:B3:678:G:C5'	23:BD:256:LYS:HB3	1.97	0.93
18:B3:710:G:C5'	34:BO:44:PHE:HE2	1.81	0.93
18:B3:1206:C:N3	18:B3:1207:A:N3	2.16	0.93
18:B3:1054:G:P	28:BI:110:ARG:HH21	1.91	0.93
18:B3:2093:G:HO2'	22:BC:253:ALA:HB3	1.28	0.93
18:B3:1055:G:C1'	28:BI:111:LEU:CB	2.46	0.93
37:BR:85:TRP:HE3	37:BR:86:ARG:HD2	1.33	0.93
18:B3:2123:A:O5'	31:BL:88:VAL:HG21	1.65	0.93
31:BL:189:THR:HG23	31:BL:194:ASN:HA	1.47	0.93
18:B3:2345:A:O5'	29:BJ:22:VAL:HG11	1.69	0.93
18:B3:2350:G:H22	29:BJ:116:ASP:HB2	1.26	0.93
20:BA:108:ASN:HD21	20:BA:162:VAL:CB	1.81	0.93
20:BA:108:ASN:ND2	20:BA:162:VAL:CB	2.32	0.93
18:B3:2165:G:C1'	20:BA:207:LYS:HE3	1.99	0.93
1:AA:363:A:OP1	12:AL:76:LEU:O	1.87	0.93
2:AT:108:HIS:HA	2:AT:536:LEU:CD2	1.98	0.93
27:BH:26:LYS:HE3	27:BH:26:LYS:H	1.34	0.93
18:B3:100:C:N1	40:BU:24:SER:HB2	1.82	0.93
6:AE:204:ARG:CD	6:AE:207:GLU:HB2	1.98	0.93
18:B3:2663:U:N1	18:B3:2816:A:C6	2.11	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:104:LEU:HD22	34:BO:105:ARG:HE	1.32	0.93
18:B3:1335:C:OP1	42:B0:96:ILE:HG13	1.69	0.93
18:B3:1306:U:H5	23:BD:194:ARG:NH2	1.62	0.93
23:BD:24:VAL:CG2	23:BD:122:ALA:HB1	1.98	0.93
19:B4:86:G:C4	25:BF:220:LYS:CG	2.49	0.93
22:BC:231:ARG:HA	22:BC:269:ARG:HH12	1.30	0.93
22:BC:71:VAL:N	37:BR:88:ARG:HA	1.81	0.93
26:BG:149:LEU:HD21	26:BG:210:LEU:HD11	1.51	0.93
18:B3:919:U:N3	41:BV:41:ARG:HB3	1.84	0.93
1:AA:560:U:O2'	1:AA:563:A:C8	2.19	0.93
1:AA:619:U:O3'	5:AD:129:ILE:CD1	2.17	0.93
12:AL:74:VAL:HG21	12:AL:104:LEU:HD21	1.50	0.93
40:BU:35:LEU:HD21	40:BU:45:ILE:HG22	1.51	0.93
40:BU:31:LEU:HD12	40:BU:74:TYR:CD2	2.04	0.93
18:B3:907:A:H8	18:B3:1328:A:H1'	1.17	0.93
1:AA:499:A:O3'	1:AA:500:G:H5''	1.68	0.93
1:AA:597:G:N2	8:AH:88:TRP:HZ2	1.65	0.93
43:BW:77:LYS:H	43:BW:82:GLU:HG2	1.34	0.93
20:BA:190:PHE:CE2	20:BA:200:ASN:HB2	2.04	0.93
18:B3:1751:G:H2'	18:B3:1752:G:H5''	1.51	0.93
33:BN:137:LYS:H	33:BN:137:LYS:HD2	1.33	0.93
1:AA:1224:G:OP2	13:AM:139:LYS:CE	2.17	0.93
1:AA:1330:U:O2	13:AM:93:THR:HB	1.69	0.93
1:AA:1179:A:P	9:AI:116:LEU:HG	2.09	0.93
19:B4:118:C:C4'	24:BE:68:THR:HG22	1.95	0.93
19:B4:50:G:C6	24:BE:58:LYS:N	2.35	0.93
18:B3:890:C:O2	45:BY:48:TRP:O	1.86	0.93
18:B3:1163:G:H5''	30:BK:54:LYS:HD3	1.48	0.93
18:B3:1652:C:C6	21:BB:174:VAL:CG2	2.52	0.93
18:B3:1939:U:H4'	21:BB:241:ARG:CG	1.99	0.93
22:BC:189:GLU:CB	22:BC:190:LYS:HE2	1.99	0.93
22:BC:310:PHE:CE1	22:BC:363:LYS:HB3	2.03	0.93
37:BR:114:ILE:HD11	37:BR:133:SER:HA	1.48	0.93
18:B3:2264:A:H5''	31:BL:92:LYS:HZ1	1.30	0.93
29:BJ:141:LYS:HA	29:BJ:144:LYS:HE2	1.50	0.93
10:AJ:78:THR:CB	14:AN:39:ARG:NE	2.05	0.93
1:AA:59:A:C5'	1:AA:388:G:C5	2.50	0.93
9:AI:13:LYS:HE3	9:AI:75:SER:HA	1.49	0.93
18:B3:1383:U:C2'	43:BW:29:PRO:HA	1.85	0.93
1:AA:581:G:OP1	15:AO:119:SER:OG	1.86	0.93
13:AM:92:ILE:HG13	13:AM:123:ARG:HH22	1.31	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:37:C:O2'	24:BE:154:THR:C	1.98	0.92
24:BE:42:ALA:HA	24:BE:49:TYR:CE1	2.04	0.92
33:BN:111:LEU:HG	33:BN:150:THR:HB	1.50	0.92
42:B0:105:ARG:HA	42:B0:105:ARG:CZ	1.98	0.92
18:B3:750:A:O4'	23:BD:116:GLU:OE1	1.86	0.92
18:B3:772:G:N3	45:BY:46:TYR:OH	1.92	0.92
18:B3:1163:G:O6	30:BK:51:LYS:HE3	1.69	0.92
18:B3:1163:G:O3'	30:BK:50:THR:O	1.84	0.92
18:B3:2545:U:O2'	22:BC:238:PRO:HG2	1.67	0.92
18:B3:2264:A:H5''	31:BL:92:LYS:HZ2	1.12	0.92
26:BG:132:LYS:HG3	26:BG:141:LEU:HD23	1.50	0.92
18:B3:1706:G:OP1	35:BP:65:HIS:CD2	2.22	0.92
18:B3:1446:U:P	39:BT:70:THR:HB	2.09	0.92
10:AJ:70:THR:O	14:AN:39:ARG:HA	1.27	0.92
6:AE:220:THR:OG1	8:AH:98:PHE:CD2	1.92	0.92
1:AA:363:A:C3'	12:AL:77:ILE:CD1	2.41	0.92
1:AA:920:U:O4'	1:AA:1080:A:C1'	2.09	0.92
1:AA:1086:U:H3	1:AA:1099:G:H22	1.07	0.92
35:BP:51:LYS:HE2	35:BP:52:LYS:CE	1.99	0.92
43:BW:58:ILE:HG13	43:BW:59:TRP:CE2	2.03	0.92
1:AA:293:G:H5'	1:AA:610:G:C2	2.04	0.92
41:BV:131:LYS:HE2	41:BV:131:LYS:HA	1.47	0.92
1:AA:947:G:H3'	13:AM:143:ARG:NE	1.83	0.92
1:AA:124:G:H5'	1:AA:289:G:C2	2.03	0.92
18:B3:145:A:C4'	31:BL:137:GLN:NE2	2.31	0.92
11:AK:15:VAL:HB	11:AK:30:THR:HG22	1.49	0.92
1:AA:664:G:H22	1:AA:741:G:H1	1.15	0.92
2:AT:685:ARG:HE	2:AT:687:ASN:HD21	1.14	0.92
1:AA:1227:A:P	17:AS:125:PRO:HB3	2.08	0.92
1:AA:1223:C:H5'	17:AS:100:LYS:HD2	1.49	0.92
1:AA:985:C:N3	17:AS:77:ARG:NH2	2.16	0.92
18:B3:843:A:H5''	33:BN:130:ARG:HG3	1.50	0.92
18:B3:539:G:C6	42:B0:50:ILE:HD13	2.05	0.92
1:AA:1177:G:H5''	9:AI:105:LYS:HD2	0.95	0.92
19:B4:5:G:H3'	24:BE:27:LYS:NZ	1.84	0.92
34:BO:59:ARG:HD3	34:BO:85:GLY:HA2	1.50	0.92
18:B3:634:G:O3'	23:BD:91:ASN:ND2	2.01	0.92
18:B3:1183:C:O2'	30:BK:85:LEU:CA	2.17	0.92
21:BB:171:GLY:N	47:B9:67:ALA:HB2	1.84	0.92
1:AA:131:C:O4'	1:AA:264:U:H1'	1.37	0.92
1:AA:190(E):U:C4'	16:AQ:109:HIS:CD2	2.26	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2717:C:C2'	18:B3:2718:C:H5''	2.00	0.92
31:BL:25:ARG:HD2	31:BL:26:VAL:CB	1.99	0.92
29:BJ:140:ARG:HA	29:BJ:140:ARG:CZ	1.97	0.92
18:B3:2166:G:O6	20:BA:61:PRO:HG3	1.68	0.92
18:B3:124:C:OP2	39:BT:88:LYS:HA	1.68	0.92
18:B3:1675:C:OP2	39:BT:120:LYS:N	2.01	0.92
1:AA:363:A:O2'	12:AL:49:ALA:HA	1.66	0.92
18:B3:2796:U:O2'	27:BH:127:PRO:HD2	1.69	0.92
27:BH:64:HIS:ND1	32:BM:127:ARG:HB3	1.84	0.92
1:AA:143:A:C8	1:AA:200:G:C2'	2.52	0.92
1:AA:359:U:C5'	2:AT:391:LYS:HA	1.83	0.92
1:AA:293:G:C5'	1:AA:610:G:C4	2.49	0.92
1:AA:1220:G:H21	17:AS:102:PHE:HB3	1.33	0.92
13:AM:117:LYS:HB3	13:AM:128:PHE:HE1	1.33	0.92
1:AA:1329:A:C2	13:AM:94:ASP:O	2.22	0.92
1:AA:335:C:C2'	1:AA:1433:A:C2'	2.46	0.92
18:B3:1181:A:C4	30:BK:107:ASP:N	2.34	0.92
18:B3:67:A:OP1	44:BX:56:THR:HG23	1.69	0.92
18:B3:1056:U:H4'	28:BI:8:CYS:HB3	0.94	0.92
22:BC:40:VAL:HG11	22:BC:43:THR:HA	1.47	0.92
28:BI:152:LEU:HA	28:BI:155:ALA:CB	1.98	0.92
18:B3:1794:G:HO2'	35:BP:96:ARG:HD3	1.25	0.92
4:AC:6:LYS:HA	4:AC:6:LYS:HE3	1.48	0.92
35:BP:31:ILE:CG2	35:BP:49:ILE:HD11	1.99	0.92
1:AA:1344:C:OP1	9:AI:136:ARG:NE	1.98	0.92
18:B3:897:A:P	41:BV:26:LYS:CG	2.57	0.92
18:B3:1882:C:OP1	21:BB:200:GLY:CA	2.18	0.92
4:AC:114:ILE:HG21	4:AC:141:LEU:HG	1.48	0.92
17:AS:64:LYS:CD	17:AS:65:LEU:HD12	1.99	0.92
13:AM:35:ILE:HB	13:AM:38:VAL:CG1	1.99	0.92
18:B3:2363:G:H22	36:BQ:8:ARG:CD	1.83	0.92
19:B4:118:C:H4'	24:BE:68:THR:HG22	1.49	0.92
1:AA:335:C:C2'	1:AA:1434:A:C8	2.48	0.92
18:B3:496:G:N2	18:B3:1427:A:OP2	2.02	0.92
18:B3:1348:A:O2'	23:BD:38:PHE:C	2.06	0.92
18:B3:170:U:H6	46:BZ:49:PHE:HZ	1.15	0.92
18:B3:944:G:O4'	25:BF:100:LYS:HE2	1.70	0.92
25:BF:99:ARG:H	25:BF:102:LEU:HD13	1.34	0.92
22:BC:311:VAL:HG12	22:BC:312:HIS:H	1.30	0.92
22:BC:46:LEU:HD12	22:BC:80:THR:HG21	1.49	0.92
18:B3:2345:A:P	29:BJ:22:VAL:CG1	2.56	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:80:ILE:HG22	39:BT:124:ARG:HA	1.49	0.92
1:AA:402:G:C5'	5:AD:108:ARG:HH22	1.82	0.92
2:AT:140:GLU:N	2:AT:481:MET:CG	2.29	0.92
37:BR:59:MET:HA	37:BR:74:MET:HG3	1.50	0.92
27:BH:54:LYS:HD3	27:BH:72:LYS:CE	1.99	0.92
40:BU:50:ILE:CD1	40:BU:104:LEU:HD11	2.00	0.92
18:B3:2081:A:H1'	32:BM:69:PRO:HG3	1.48	0.92
1:AA:728:A:N6	15:AO:108:LYS:NZ	2.17	0.92
5:AD:113:VAL:CG2	5:AD:125:ALA:HB1	1.99	0.92
9:AI:51:LEU:HD21	9:AI:84:ILE:CG1	1.98	0.92
24:BE:157:ALA:HB3	24:BE:160:PHE:CD2	2.04	0.92
18:B3:53:C:H5'	18:B3:121:U:H3'	0.93	0.92
18:B3:953:G:H3'	36:BQ:13:TYR:CD2	2.05	0.92
18:B3:2652:U:C2'	22:BC:257:ALA:HB2	1.98	0.92
18:B3:2822:C:C5'	22:BC:133:SER:OG	2.18	0.92
22:BC:49:LYS:CE	22:BC:332:LYS:HA	1.98	0.92
18:B3:1003:U:OP1	28:BI:90:ARG:HD3	1.65	0.92
18:B3:2346:C:O2'	29:BJ:66:VAL:O	1.84	0.92
18:B3:1676:G:C4'	39:BT:115:PRO:CD	2.26	0.92
1:AA:68:G:O3'	1:AA:171:A:O4'	1.68	0.92
2:AT:140:GLU:CG	2:AT:481:MET:HA	1.98	0.92
43:BW:77:LYS:CE	43:BW:79:ASN:HB2	1.99	0.92
19:B4:35:C:N4	24:BE:95:TRP:CH2	2.36	0.92
1:AA:335:C:H2'	1:AA:1433:A:C2'	1.99	0.92
18:B3:678:G:C8	23:BD:259:GLN:CD	2.42	0.92
18:B3:1939:U:H4'	21:BB:241:ARG:HG3	1.50	0.92
25:BF:126:LEU:HB3	25:BF:135:TYR:CE1	2.04	0.92
25:BF:95:PRO:HG2	25:BF:98:PRO:HG2	1.51	0.92
1:AA:129(A):G:H2'	16:AQ:125:GLY:O	1.70	0.92
18:B3:2762:C:H1'	37:BR:83:LYS:HD2	1.50	0.92
18:B3:1003:U:P	28:BI:90:ARG:CZ	2.58	0.92
18:B3:2737:C:H5	35:BP:61:ARG:CZ	1.83	0.92
20:BA:205:VAL:CG1	20:BA:213:ALA:HB1	2.00	0.92
18:B3:1674:C:OP1	39:BT:121:ALA:HB2	0.74	0.92
1:AA:363:A:H3'	12:AL:77:ILE:HD11	0.92	0.92
1:AA:554:C:C1'	12:AL:45:GLY:CA	2.34	0.92
2:AT:465:LYS:HZ1	2:AT:511:LEU:CG	1.81	0.92
1:AA:1086:U:O3'	1:AA:1389:C:H4'	1.70	0.92
43:BW:28:ALA:HA	43:BW:59:TRP:CE2	2.05	0.92
1:AA:404:U:C2	5:AD:19:TYR:CE2	2.58	0.92
1:AA:667:G:H1'	15:AO:109:ASP:OD1	1.69	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1127:C:O2'	18:B3:2492:U:C5'	2.17	0.92
1:AA:950:U:OP2	13:AM:140:THR:OG1	1.86	0.92
1:AA:1329:A:C5'	13:AM:98:TYR:CE2	2.52	0.92
19:B4:10:C:H41	36:BQ:26:HIS:HE2	1.02	0.92
19:B4:34:A:H61	24:BE:95:TRP:HE3	1.07	0.92
18:B3:1316:G:OP1	42:B0:102:ALA:CA	2.17	0.92
34:BO:106:PHE:CD2	34:BO:111:ARG:HB3	2.04	0.92
18:B3:796:A:H4'	47:B9:12:LYS:HA	1.50	0.92
22:BC:219:VAL:HG13	22:BC:272:HIS:N	1.84	0.92
18:B3:898:G:P	41:BV:25:ARG:CG	2.58	0.92
5:AD:157:ASP:HB3	5:AD:160:PRO:HG2	1.52	0.92
1:AA:621:A:O3'	5:AD:78:ARG:CD	2.16	0.92
2:AT:463:LEU:CA	2:AT:513:LYS:HZ3	1.69	0.92
1:AA:1348:U:O3'	9:AI:134:ARG:CB	2.16	0.92
27:BH:41:ILE:H	32:BM:125:VAL:CG1	1.77	0.92
1:AA:187:C:OP1	1:AA:258:G:OP1	1.86	0.92
1:AA:1016:A:C1'	1:AA:1216:G:H22	1.82	0.92
9:AI:28:ILE:HG23	9:AI:64:ILE:HG23	1.50	0.92
18:B3:2415:A:N1	24:BE:35:ARG:NE	2.16	0.92
19:B4:119:C:N1	24:BE:71:GLY:CA	2.32	0.92
18:B3:2415:A:C1'	24:BE:39:GLN:OE1	2.07	0.92
18:B3:1309:U:O3'	23:BD:204:PRO:N	1.98	0.92
18:B3:35:U:H5'	23:BD:49:TYR:HA	1.49	0.92
18:B3:2093:G:N2	22:BC:257:ALA:CA	2.09	0.92
18:B3:2712:G:O3'	37:BR:44:SER:N	1.79	0.92
18:B3:2837:U:O2	22:BC:334:ILE:HB	1.68	0.92
18:B3:1812:G:C4'	18:B3:2732:U:O2'	2.18	0.92
18:B3:2346:C:O4'	29:BJ:64:ILE:CG1	2.17	0.92
2:AT:464:LEU:HD22	2:AT:510:ARG:HG2	0.93	0.92
18:B3:2796:U:H5''	27:BH:129:ARG:NH1	1.85	0.92
18:B3:1139:U:H4'	27:BH:62:ARG:CG	1.99	0.92
18:B3:2460:A:H1'	46:BZ:59:LYS:HB3	0.94	0.92
46:BZ:67:VAL:CG1	46:BZ:69:LEU:HD22	2.00	0.92
18:B3:772:G:H21	45:BY:48:TRP:HB3	1.35	0.92
18:B3:2820:A:H5'	22:BC:90:GLY:H	1.34	0.92
18:B3:2847:G:OP1	22:BC:174:LYS:NZ	2.03	0.92
26:BG:150:VAL:HG23	26:BG:176:TYR:HB2	1.51	0.92
31:BL:122:GLN:HG3	31:BL:128:TYR:CD1	2.04	0.92
18:B3:2167:A:H62	20:BA:60:ARG:HH21	1.12	0.92
37:BR:34:LEU:H	37:BR:34:LEU:HD13	1.31	0.92
1:AA:777:A:C5	11:AK:126:ARG:CZ	2.46	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:16:ARG:H	47:B9:16:ARG:HD3	1.34	0.92
18:B3:145:A:C5'	31:BL:137:GLN:NE2	2.32	0.92
24:BE:88:ILE:HG22	24:BE:219:PHE:CZ	2.04	0.92
18:B3:1682:A:H2	18:B3:1696:U:H3	1.05	0.92
5:AD:69:ARG:HD2	5:AD:76:LEU:HD13	1.51	0.92
1:AA:989:C:H5'	1:AA:1013:G:C4	2.05	0.92
13:AM:29:VAL:HG13	13:AM:43:SER:CB	2.00	0.92
31:BL:42:THR:CG2	31:BL:43:ARG:HD3	2.00	0.92
31:BL:70:ARG:HG2	31:BL:71:LYS:H	1.33	0.92
18:B3:2334:C:C1'	29:BJ:112:GLY:C	2.37	0.92
18:B3:2214:A:H2'	20:BA:106:LYS:CB	2.00	0.92
1:AA:65:U:O2'	1:AA:382:A:N6	2.03	0.92
18:B3:1118:A:C6	18:B3:1226:G:H3'	2.03	0.92
18:B3:1225:C:C4'	18:B3:1248:A:C2	2.40	0.92
18:B3:1228:C:O3'	32:BM:47:PHE:CD2	2.23	0.92
18:B3:2460:A:HO2'	46:BZ:60:LYS:HG3	1.17	0.92
18:B3:100:C:C2	40:BU:24:SER:HB2	2.05	0.92
1:AA:1505:G:H5''	1:AA:1506:U:O2	1.19	0.92
1:AA:124:G:H5''	1:AA:290:C:C2	2.05	0.92
4:AC:105:LYS:CE	4:AC:183:ILE:HB	2.00	0.92
1:AA:1221:G:OP1	17:AS:81:ARG:CA	2.18	0.91
1:AA:1298:C:H3'	13:AM:57:ARG:NH2	1.84	0.91
1:AA:1309:G:N9	13:AM:92:ILE:CG1	1.86	0.91
1:AA:989:C:H4'	1:AA:1013:G:H21	1.30	0.91
18:B3:538:C:O2'	42:B0:24:ARG:HB2	1.70	0.91
9:AI:28:ILE:HG12	9:AI:64:ILE:HG22	1.49	0.91
9:AI:6:VAL:HG22	9:AI:21:VAL:HB	1.52	0.91
18:B3:2413:A:C2	24:BE:145:PHE:CD2	2.59	0.91
24:BE:188:GLU:HA	24:BE:198:TYR:CB	2.00	0.91
24:BE:51:LEU:HD13	24:BE:64:ILE:HD13	1.52	0.91
18:B3:2048:C:H5'	33:BN:68:ARG:CD	2.00	0.91
18:B3:1853:C:O4'	21:BB:237:ILE:CD1	2.17	0.91
18:B3:1285:U:H5''	25:BF:155:ILE:CG2	1.99	0.91
18:B3:1160:G:N2	18:B3:1206:C:C5	2.37	0.91
28:BI:152:LEU:H	28:BI:154:ARG:HH21	1.17	0.91
18:B3:2264:A:OP1	31:BL:92:LYS:NZ	2.02	0.91
31:BL:34:VAL:CA	31:BL:64:ARG:HD3	2.00	0.91
18:B3:2734:G:P	35:BP:79:LYS:NZ	2.43	0.91
29:BJ:90:LEU:HD13	29:BJ:163:LYS:HE3	1.50	0.91
18:B3:2166:G:O6	20:BA:61:PRO:CB	2.17	0.91
6:AE:155:THR:HA	8:AH:96:ARG:CB	2.00	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:169:ILE:CG2	6:AE:196:TYR:HB3	1.99	0.91
2:AT:785:ARG:HE	18:B3:2697:A:H62	0.92	0.91
18:B3:1116:U:C2'	18:B3:1226:G:H8	1.79	0.91
1:AA:678:U:H2'	11:AK:125:THR:CG2	1.99	0.91
46:BZ:73:CYS:H	46:BZ:79:ARG:HG3	1.35	0.91
1:AA:1345:U:C4	7:AG:76:TYR:CD1	2.58	0.91
40:BU:33:ALA:CB	40:BU:50:ILE:HD11	2.00	0.91
2:AT:501:LEU:HD13	12:AL:99:ASN:HB2	1.52	0.91
1:AA:292:G:O2'	1:AA:609:A:N7	2.03	0.91
19:B4:69:U:H5'	24:BE:13:SER:HB2	1.52	0.91
24:BE:157:ALA:HB3	24:BE:160:PHE:CE2	2.04	0.91
31:BL:82:LYS:HE2	46:BZ:49:PHE:CD1	2.03	0.91
21:BB:195:TRP:CZ2	21:BB:197:LYS:HD2	2.05	0.91
25:BF:150:ARG:HA	25:BF:150:ARG:CZ	1.98	0.91
18:B3:968:G:H5'	28:BI:35:ASP:OD2	1.69	0.91
18:B3:2653:A:H5'	22:BC:257:ALA:H	1.33	0.91
28:BI:49:CYS:HB2	28:BI:168:SER:CA	1.99	0.91
28:BI:31:ILE:HD13	28:BI:65:LEU:HG	1.52	0.91
18:B3:898:G:OP2	41:BV:25:ARG:CG	2.17	0.91
29:BJ:16:LEU:HD21	29:BJ:78:ILE:HD11	1.52	0.91
18:B3:1674:C:C5'	39:BT:84:GLN:NE2	2.33	0.91
3:AB:47:ILE:CD1	3:AB:161:CYS:HA	1.99	0.91
12:AL:112:LYS:HE2	12:AL:121:ARG:CD	1.98	0.91
1:AA:1086:U:H5''	1:AA:1389:C:H5'	0.95	0.91
41:BV:120:VAL:HG11	41:BV:122:VAL:HG13	1.52	0.91
32:BM:5:VAL:HG13	32:BM:6:VAL:H	1.35	0.91
42:B0:111:ARG:HH21	42:B0:113:LYS:HD3	1.34	0.91
1:AA:1298:C:H5''	13:AM:57:ARG:CZ	1.99	0.91
34:BO:62:VAL:CB	34:BO:87:VAL:HA	2.01	0.91
21:BB:116:GLU:HG2	21:BB:161:ALA:HB1	1.53	0.91
21:BB:57:LEU:CD2	21:BB:76:ILE:HA	2.00	0.91
18:B3:2672:C:O3'	22:BC:31:PHE:HE1	1.51	0.91
18:B3:2717:C:OP1	22:BC:221:LYS:HE2	1.70	0.91
22:BC:49:LYS:CD	22:BC:332:LYS:HA	2.01	0.91
37:BR:80:ARG:N	37:BR:99:ALA:HB3	1.84	0.91
31:BL:169:LYS:HA	31:BL:169:LYS:HE3	1.52	0.91
18:B3:1806:G:H5'	18:B3:2874:G:C2'	2.00	0.91
1:AA:560:U:H1'	1:AA:563:A:C5'	1.93	0.91
3:AB:139:ASN:HA	8:AH:68:LEU:O	1.71	0.91
2:AT:111:PHE:O	2:AT:533:THR:HG21	1.69	0.91
2:AT:536:LEU:HD13	18:B3:2699:A:C5'	1.99	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1385:G:C4'	43:BW:49:ARG:O	2.19	0.91
18:B3:1131:G:N3	18:B3:2522:G:O3'	1.71	0.91
46:BZ:66:LYS:HA	46:BZ:86:ARG:HH11	1.36	0.91
40:BU:30:LEU:HD22	40:BU:78:PHE:CB	2.01	0.91
1:AA:111:G:C1'	1:AA:389:A:H4'	2.00	0.91
18:B3:243:A:OP1	31:BL:2:ALA:CB	2.17	0.91
7:AG:200:ALA:HA	7:AG:210:ILE:HD11	1.51	0.91
13:AM:126:ARG:NH1	17:AS:121:ILE:CG1	2.33	0.91
1:AA:1302:U:C5'	13:AM:54:LEU:HD23	1.99	0.91
17:AS:96:ILE:HG23	17:AS:120:SER:HB2	1.53	0.91
19:B4:48:C:O3'	24:BE:158:ARG:HA	1.48	0.91
24:BE:33:ARG:HA	24:BE:36:LEU:CD2	1.99	0.91
19:B4:119:C:H6	24:BE:71:GLY:HA2	1.31	0.91
36:BQ:73:GLY:CA	36:BQ:89:LEU:HD13	2.01	0.91
18:B3:772:G:N2	45:BY:48:TRP:HB2	1.84	0.91
18:B3:1847:A:HO2'	21:BB:179:LEU:HA	1.34	0.91
25:BF:167:ILE:HG21	25:BF:183:LEU:CD1	2.00	0.91
1:AA:130:A:H8	16:AQ:135:ARG:CA	1.65	0.91
22:BC:259:VAL:HG13	22:BC:261:TRP:CD1	2.04	0.91
18:B3:2820:A:C1'	22:BC:89:VAL:HG12	2.00	0.91
18:B3:2334:C:N3	29:BJ:114:LYS:C	2.23	0.91
18:B3:1672:G:N7	39:BT:108:LYS:NZ	2.16	0.91
18:B3:81:G:O5'	40:BU:74:TYR:N	1.85	0.91
11:AK:75:ILE:HG23	11:AK:109:LEU:HD21	1.49	0.91
22:BC:59:LEU:HD12	22:BC:66:PHE:CB	1.99	0.91
18:B3:1096:U:O2'	25:BF:213:TRP:CZ3	2.22	0.91
1:AA:1308:U:P	13:AM:145:ARG:HD3	2.10	0.91
10:AJ:61:LYS:H	10:AJ:61:LYS:HD3	1.33	0.91
18:B3:2368:A:H2	24:BE:150:LEU:HD23	0.76	0.91
24:BE:65:ILE:HD11	24:BE:75:LEU:HB3	1.53	0.91
34:BO:65:SER:HB3	34:BO:91:ALA:CB	2.00	0.91
21:BB:224:ILE:HD12	21:BB:228:ALA:HB2	1.48	0.91
21:BB:43:ILE:N	21:BB:61:VAL:HG12	1.86	0.91
18:B3:1206:C:O2	18:B3:1207:A:C4	2.24	0.91
18:B3:68:U:O5'	44:BX:55:LEU:HD22	1.68	0.91
26:BG:132:LYS:HD2	26:BG:137:HIS:HB3	1.51	0.91
18:B3:1805:G:H21	18:B3:2875:A:N6	1.57	0.91
18:B3:1806:G:H4'	18:B3:2874:G:H1'	0.92	0.91
18:B3:1814:G:H8	18:B3:2731:G:C2	1.88	0.91
20:BA:51:GLY:O	20:BA:54:LYS:HB3	1.70	0.91
2:AT:108:HIS:HB2	2:AT:536:LEU:CG	2.00	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1225:C:C5'	18:B3:1248:A:C2	2.53	0.91
1:AA:690:G:P	11:AK:23:ASN:OD1	2.28	0.91
1:AA:1016:A:C1'	1:AA:1216:G:N2	2.34	0.91
19:B4:48:C:C3'	24:BE:158:ARG:HG3	1.98	0.91
19:B4:48:C:H2'	24:BE:158:ARG:CG	2.00	0.91
24:BE:115:LEU:CD2	24:BE:171:LEU:HD13	2.01	0.91
24:BE:208:MET:HG2	24:BE:211:LEU:H	1.34	0.91
19:B4:119:C:H1'	24:BE:71:GLY:C	1.91	0.91
24:BE:16:PHE:HD1	36:BQ:19:PHE:CZ	1.82	0.91
1:AA:318:G:N2	1:AA:1433:A:N1	2.19	0.91
18:B3:27:U:C2	18:B3:1318:A:N1	2.38	0.91
18:B3:1309:U:C6	23:BD:204:PRO:CD	2.54	0.91
18:B3:710:G:P	34:BO:43:PRO:HD2	2.09	0.91
21:BB:101:LEU:HD11	21:BB:105:SER:CB	2.01	0.91
25:BF:130:GLU:HB3	25:BF:131:PRO:HD3	1.52	0.91
18:B3:1132:A:H2'	18:B3:2521:A:O4'	1.40	0.91
28:BI:36:LEU:HB3	28:BI:87:LEU:CB	2.00	0.91
18:B3:2135:A:H2	18:B3:2239:C:N3	1.68	0.91
26:BG:112:ALA:HB3	26:BG:115:VAL:CG1	2.00	0.91
18:B3:1705:C:H5'	35:BP:62:THR:CG2	2.00	0.91
18:B3:1806:G:N2	18:B3:2883:A:H3'	1.07	0.91
18:B3:919:U:H2'	41:BV:41:ARG:H	1.35	0.91
18:B3:2345:A:O4'	29:BJ:22:VAL:HB	1.68	0.91
18:B3:1676:G:H5''	39:BT:115:PRO:CB	1.99	0.91
8:AH:37:LEU:CD1	8:AH:60:ILE:HG21	2.01	0.91
1:AA:523:A:H2	12:AL:115:GLY:HA3	1.34	0.91
35:BP:34:ALA:HB1	35:BP:40:ILE:CD1	1.98	0.91
40:BU:23:PRO:HD2	40:BU:26:GLN:HB3	1.50	0.91
1:AA:1502:A:H2	1:AA:1505:G:H1	1.18	0.91
46:BZ:3:VAL:HB	46:BZ:4:PRO:HA	1.53	0.91
1:AA:1300:G:C5'	13:AM:30:TYR:CG	2.53	0.91
1:AA:1309:G:C5	13:AM:92:ILE:CB	2.33	0.91
18:B3:537:G:C3'	42:B0:41:VAL:CG1	2.48	0.91
10:AJ:55:PRO:CA	10:AJ:91:ILE:HG12	2.00	0.91
19:B4:47:A:H5'	24:BE:153:THR:CA	1.98	0.91
18:B3:1067:A:C5'	25:BF:96:PRO:CG	2.49	0.91
18:B3:107:U:O4'	44:BX:60:GLU:HA	1.68	0.91
22:BC:365:GLY:HA3	38:BS:35:LYS:HG2	0.91	0.91
18:B3:2346:C:C5'	29:BJ:47:SER:CA	2.48	0.91
6:AE:157:THR:HA	8:AH:127:PHE:CZ	2.05	0.91
8:AH:27:ARG:HG3	8:AH:28:PRO:HD2	1.49	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1118:A:H4'	18:B3:1228:C:C4	2.06	0.91
18:B3:1243:C:H4'	32:BM:17:ARG:NH1	1.83	0.91
18:B3:2436:U:O2'	46:BZ:80:ALA:HA	1.70	0.91
18:B3:80:A:H4'	40:BU:73:VAL:HG13	1.49	0.91
6:AE:164:VAL:HG11	6:AE:209:THR:HA	1.53	0.91
11:AK:15:VAL:HB	11:AK:30:THR:CG2	2.01	0.91
8:AH:103:LEU:HD22	8:AH:124:ILE:HA	1.50	0.91
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.06	0.91
1:AA:1309:G:C3'	13:AM:123:ARG:NH2	2.27	0.91
13:AM:38:VAL:HG23	13:AM:42:TYR:HB2	1.53	0.91
1:AA:958:A:N3	17:AS:101:ALA:HB1	1.84	0.91
17:AS:55:GLY:HA2	17:AS:83:MET:HG3	1.52	0.91
18:B3:882:A:C5'	45:BY:1:GLY:O	2.18	0.91
33:BN:17:ARG:CZ	33:BN:17:ARG:HA	2.01	0.91
21:BB:179:LEU:HD11	47:B9:22:ARG:NH1	1.84	0.91
21:BB:127:ARG:HD3	21:BB:127:ARG:H	1.36	0.91
21:BB:179:LEU:HD22	47:B9:21:LEU:CG	2.00	0.91
37:BR:95:PHE:CE2	38:BS:23:ARG:CG	2.53	0.91
3:AB:153:GLU:OE1	8:AH:19:THR:O	1.88	0.91
1:AA:69:G:H2'	1:AA:171:A:C6	2.06	0.91
37:BR:31:ALA:HA	37:BR:32:ARG:HD3	1.50	0.91
9:AI:122:ARG:HB3	9:AI:123:PRO:HD2	1.51	0.91
18:B3:2780:C:H5''	27:BH:162:GLN:NE2	1.85	0.91
27:BH:92:TYR:HD1	27:BH:179:ILE:HG21	1.35	0.91
35:BP:48:THR:CG2	35:BP:49:ILE:HG12	1.99	0.91
1:AA:1075:C:H5''	3:AB:103:PRO:N	1.86	0.91
18:B3:1362:U:O4'	23:BD:94:ARG:NH1	2.02	0.91
18:B3:539:G:C6	42:B0:50:ILE:CD1	2.54	0.91
9:AI:42:ILE:CD1	9:AI:45:PHE:HB2	2.01	0.91
24:BE:55:PHE:CE1	24:BE:159:VAL:HG22	2.05	0.91
36:BQ:76:ILE:HG13	36:BQ:78:LYS:HB2	1.53	0.91
33:BN:60:ARG:CD	33:BN:61:ARG:HG3	2.00	0.91
18:B3:763:C:O2	23:BD:86:GLN:HG3	1.71	0.91
18:B3:949:U:H1'	36:BQ:100:LYS:HB3	0.93	0.91
18:B3:2468:A:N7	46:BZ:55:PRO:CG	2.27	0.91
18:B3:1742:A:H8	18:B3:2723:G:H4'	1.36	0.91
18:B3:2531:U:H2'	18:B3:2533:C:C5	2.06	0.91
22:BC:39:PRO:HB2	22:BC:182:LEU:HB2	1.53	0.91
28:BI:38:LYS:HD3	28:BI:40:LYS:HG2	1.52	0.91
18:B3:1801:A:H5'	35:BP:88:LEU:HD11	0.91	0.91
1:AA:1240:U:H4'	7:AG:188:THR:HG22	1.51	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2349:G:O6	29:BJ:117:PRO:HA	1.70	0.91
39:BT:65:PRO:HA	39:BT:83:PHE:CD1	2.06	0.91
5:AD:99:LEU:HD12	5:AD:106:GLU:CB	2.00	0.91
2:AT:749:LYS:HG2	18:B3:2508:C:C6	2.05	0.91
41:BV:126:ALA:N	41:BV:145:GLU:HB2	1.85	0.91
18:B3:45:A:H2	18:B3:115:U:H3	0.94	0.91
13:AM:92:ILE:N	13:AM:109:LEU:HD12	1.69	0.91
19:B4:36:C:H5'	24:BE:182:GLY:N	1.84	0.91
24:BE:22:ARG:HA	24:BE:22:ARG:CZ	2.01	0.91
18:B3:2050:G:HO2'	33:BN:84:ALA:HB3	1.34	0.91
18:B3:1305:C:H2'	23:BD:194:ARG:NH2	1.85	0.91
23:BD:165:VAL:HA	23:BD:168:LEU:CD2	2.00	0.91
18:B3:635:A:H5'	23:BD:91:ASN:HD21	1.13	0.91
47:B9:68:TYR:CD2	47:B9:69:THR:HG23	2.05	0.91
18:B3:1003:U:P	28:BI:90:ARG:CD	2.58	0.91
18:B3:2846:C:O3'	22:BC:174:LYS:NZ	2.02	0.91
28:BI:12:GLN:HG3	28:BI:58:GLU:HG3	1.53	0.91
18:B3:2312:G:P	28:BI:22:TYR:CE1	2.61	0.91
18:B3:1805:G:N2	18:B3:2875:A:N6	1.96	0.91
18:B3:2349:G:H4'	29:BJ:15:LYS:HZ1	1.26	0.91
29:BJ:163:LYS:CE	29:BJ:169:ASP:HA	2.00	0.91
1:AA:401:C:H2'	1:AA:621:A:N3	1.86	0.91
1:AA:66:G:C6	1:AA:69:G:C6	2.58	0.91
1:AA:1348:U:C5'	9:AI:134:ARG:CG	2.45	0.91
18:B3:81:G:O4'	40:BU:73:VAL:CG1	2.16	0.91
1:AA:728:A:C6	15:AO:108:LYS:NZ	2.39	0.91
19:B4:5:G:H22	24:BE:71:GLY:C	1.68	0.90
18:B3:1164:U:C1'	30:BK:51:LYS:HB3	1.99	0.90
18:B3:1853:C:OP1	21:BB:240:ARG:NE	1.84	0.90
21:BB:171:GLY:H	47:B9:67:ALA:HB2	1.32	0.90
21:BB:171:GLY:CA	47:B9:67:ALA:CB	2.49	0.90
1:AA:131:C:C3'	16:AQ:128:ARG:CZ	2.47	0.90
1:AA:130:A:C5'	1:AA:190(E):U:OP1	2.13	0.90
18:B3:90:A:HO2'	44:BX:39:PRO:HG2	1.13	0.90
18:B3:2653:A:H4'	22:BC:256:PRO:CB	2.01	0.90
31:BL:67:ARG:HG2	31:BL:125:THR:CA	2.01	0.90
35:BP:98:LEU:N	35:BP:101:LEU:HD23	1.85	0.90
18:B3:1118:A:O4'	18:B3:1227:C:C4	2.24	0.90
1:AA:777:A:C8	11:AK:126:ARG:NH2	2.37	0.90
40:BU:56:VAL:CG1	40:BU:104:LEU:HB2	2.02	0.90
20:BA:131:ALA:CB	20:BA:133:LYS:HD3	2.00	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:108:ILE:HG23	10:AJ:109:GLU:H	1.35	0.90
17:AS:58:LYS:HE2	17:AS:80:MET:HG3	1.53	0.90
18:B3:1689:A:C2	33:BN:128:THR:OG1	2.24	0.90
19:B4:9:C:OP2	36:BQ:26:HIS:NE2	2.04	0.90
19:B4:36:C:C2'	24:BE:156:GLY:N	2.32	0.90
36:BQ:73:GLY:HA2	36:BQ:89:LEU:HD13	1.52	0.90
36:BQ:75:ILE:HG22	36:BQ:89:LEU:HB3	1.54	0.90
18:B3:2424:U:H5''	36:BQ:7:TYR:HD2	1.32	0.90
18:B3:1311:G:N7	23:BD:185:LYS:CG	2.33	0.90
18:B3:678:G:O3'	23:BD:258:ASP:OD2	1.89	0.90
1:AA:130:A:O5'	16:AQ:127:CYS:HB3	1.48	0.90
18:B3:2848:G:OP2	22:BC:173:LYS:HE2	1.69	0.90
18:B3:2819:C:C3'	22:BC:101:LEU:H	1.66	0.90
22:BC:217:ILE:CD1	22:BC:337:LEU:HB2	2.02	0.90
18:B3:2264:A:C5'	31:BL:92:LYS:NZ	2.35	0.90
18:B3:1794:G:H5''	35:BP:97:ARG:CG	1.99	0.90
18:B3:1806:G:N2	18:B3:2884:G:H8	1.65	0.90
18:B3:2337:G:N7	29:BJ:127:TYR:CE1	2.25	0.90
29:BJ:26:GLY:HA3	29:BJ:31:ARG:H	1.33	0.90
20:BA:55:LEU:HD23	20:BA:167:VAL:CG2	1.91	0.90
1:AA:560:U:C1'	1:AA:563:A:C4'	2.32	0.90
5:AD:99:LEU:HA	5:AD:103:ASP:H	1.33	0.90
8:AH:36:PHE:HE1	8:AH:102:ILE:HG21	1.36	0.90
1:AA:68:G:OP1	1:AA:172:A:C5'	2.15	0.90
1:AA:678:U:H2'	11:AK:125:THR:CB	2.00	0.90
1:AA:1086:U:H4'	1:AA:1389:C:H4'	1.50	0.90
35:BP:3:LEU:CD2	35:BP:32:ALA:HA	2.01	0.90
18:B3:697:G:P	41:BV:130:SER:OG	2.29	0.90
1:AA:1501:C:H5''	1:AA:1508:G:HO2'	1.31	0.90
1:AA:119:A:C5'	1:AA:122:G:N7	2.31	0.90
32:BM:141:SER:HA	32:BM:144:VAL:HG12	1.53	0.90
18:B3:2396:C:O2	41:BV:46:LYS:HD3	1.70	0.90
16:AQ:90:LEU:HB3	16:AQ:99:TYR:CE2	2.07	0.90
1:AA:1286:A:H2'	1:AA:1287:A:H5''	1.52	0.90
1:AA:1332:A:OP2	13:AM:40:ARG:HD2	1.68	0.90
36:BQ:36:VAL:HG22	36:BQ:37:GLY:H	1.37	0.90
34:BO:74:GLU:HB2	34:BO:138:LEU:CD2	2.00	0.90
45:BY:24:ARG:HG3	45:BY:25:SER:H	1.35	0.90
18:B3:1855:G:O6	21:BB:150:PRO:HG2	1.72	0.90
18:B3:693:A:H5'	41:BV:59:TYR:CE1	1.98	0.90
28:BI:88:ARG:HD3	28:BI:89:VAL:H	1.35	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:137:LEU:HD22	35:BP:141:ILE:HD11	1.54	0.90
2:AT:465:LYS:NZ	2:AT:511:LEU:CB	2.33	0.90
18:B3:2711:U:C2'	37:BR:41:GLY:O	2.05	0.90
1:AA:1372:U:H5''	9:AI:74:VAL:HG23	1.52	0.90
1:AA:676:A:N1	11:AK:123:ASP:CA	2.33	0.90
18:B3:903:U:C4	41:BV:15:SER:CB	2.54	0.90
18:B3:149:G:OP1	45:BY:42:LYS:HB3	1.71	0.90
1:AA:1298:C:H42	7:AG:184:ARG:NH1	1.57	0.90
1:AA:1309:G:OP1	13:AM:127:HIS:CE1	2.23	0.90
1:AA:956:U:H1'	17:AS:126:VAL:HG23	1.50	0.90
1:AA:1314:C:H42	17:AS:49:MET:HA	1.08	0.90
18:B3:2661:U:O4	18:B3:2812:A:N6	2.03	0.90
23:BD:5:VAL:HG12	23:BD:19:LEU:HA	1.51	0.90
18:B3:721:A:H5''	34:BO:71:LEU:CB	2.00	0.90
18:B3:815:U:HO3'	18:B3:1598:A:H4'	1.21	0.90
21:BB:177:PRO:HB2	21:BB:179:LEU:HD12	1.53	0.90
21:BB:44:VAL:CG1	21:BB:58:ALA:HB1	2.00	0.90
21:BB:97:VAL:HA	21:BB:165:ILE:HG12	1.50	0.90
18:B3:1085:C:H5''	25:BF:89:LYS:HZ2	1.36	0.90
18:B3:1287:A:C2	25:BF:106:ARG:CZ	2.44	0.90
18:B3:2283:G:N1	28:BI:105:CYS:CA	2.33	0.90
22:BC:84:VAL:HG13	22:BC:164:GLN:HE22	1.37	0.90
18:B3:967:U:C2'	28:BI:34:TYR:CE2	2.53	0.90
18:B3:2713:G:H5''	37:BR:44:SER:O	1.69	0.90
18:B3:1675:C:O5'	39:BT:113:VAL:C	2.10	0.90
10:AJ:70:THR:HG22	14:AN:40:GLN:N	1.45	0.90
1:AA:6:G:H1'	1:AA:298:A:C2'	1.93	0.90
18:B3:1244:U:P	32:BM:14:LEU:HD13	2.11	0.90
1:AA:678:U:C2'	11:AK:125:THR:HB	1.85	0.90
1:AA:1075:C:C5'	3:AB:102:THR:HA	2.01	0.90
18:B3:2552:C:O2'	18:B3:2553:A:H3'	1.70	0.90
1:AA:20:U:O4'	1:AA:573:A:C6	2.24	0.90
18:B3:905:C:OP1	41:BV:11:ARG:HD2	1.72	0.90
45:BY:36:CYS:CA	45:BY:44:ARG:HB2	2.01	0.90
30:BK:94:LYS:HD3	30:BK:138:SER:HA	1.52	0.90
13:AM:15:LEU:HG	13:AM:16:ARG:H	1.34	0.90
19:B4:68:G:O3'	24:BE:13:SER:HB2	1.70	0.90
18:B3:750:A:C1'	23:BD:116:GLU:CG	2.42	0.90
18:B3:1358:A:C3'	23:BD:92:MET:HG2	2.02	0.90
18:B3:1167:G:H2'	30:BK:110:ILE:HG22	1.53	0.90
30:BK:32:ILE:CD1	30:BK:37:LEU:HD23	2.00	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:44:ILE:HA	44:BX:47:VAL:HG12	1.54	0.90
18:B3:2897:C:H5''	22:BC:312:HIS:NE2	1.85	0.90
22:BC:280:LYS:HB2	22:BC:324:LYS:HD2	1.51	0.90
18:B3:2165:G:HO2'	20:BA:33:GLU:HB2	1.14	0.90
18:B3:2215:A:H5'	20:BA:107:TYR:CE1	1.91	0.90
20:BA:36:VAL:HG13	20:BA:204:LEU:HD13	1.52	0.90
20:BA:63:MET:HG3	20:BA:108:ASN:CB	2.02	0.90
20:BA:67:ILE:HG21	20:BA:77:ALA:CB	2.02	0.90
10:AJ:73:GLY:O	14:AN:25:SER:OG	1.88	0.90
14:AN:37:ILE:HG22	14:AN:41:CYS:H	1.36	0.90
10:AJ:69:LYS:CB	14:AN:39:ARG:NE	2.33	0.90
1:AA:860:A:C3'	8:AH:18:LYS:NZ	2.34	0.90
6:AE:155:THR:CA	8:AH:96:ARG:CB	2.49	0.90
27:BH:40:HIS:CE1	27:BH:67:ALA:HB1	2.07	0.90
18:B3:1131:G:C5'	19:B4:91:C:O2	2.18	0.90
18:B3:82:C:P	40:BU:75:ARG:HB2	2.11	0.90
1:AA:1503:A:O2'	1:AA:1507:A:H5''	1.70	0.90
42:B0:32:TRP:CH2	42:B0:34:LYS:HD2	2.07	0.90
9:AI:9:PHE:CZ	9:AI:16:THR:HB	2.07	0.90
19:B4:119:C:O4'	24:BE:71:GLY:CA	2.20	0.90
24:BE:208:MET:CB	24:BE:211:LEU:HD22	2.00	0.90
36:BQ:57:TYR:CD2	36:BQ:76:ILE:HG21	2.05	0.90
18:B3:449:A:H2	18:B3:1348:A:C5	1.89	0.90
18:B3:710:G:H5'	34:BO:44:PHE:HE2	1.30	0.90
23:BD:192:LYS:HE2	23:BD:193:TYR:CD1	2.07	0.90
18:B3:1304:U:H5''	23:BD:193:TYR:CE2	2.07	0.90
18:B3:675:U:O2'	23:BD:235:LEU:CD2	2.20	0.90
18:B3:2275:G:H5'	31:BL:78:ALA:HA	1.53	0.90
21:BB:179:LEU:CG	47:B9:21:LEU:HD12	2.00	0.90
18:B3:1706:G:P	35:BP:65:HIS:CD2	2.64	0.90
18:B3:2214:A:C2'	20:BA:106:LYS:CD	2.33	0.90
20:BA:108:ASN:ND2	20:BA:162:VAL:HG23	1.66	0.90
10:AJ:80:GLU:OE1	14:AN:43:ARG:CD	2.19	0.90
1:AA:59:A:H4'	1:AA:388:G:C8	2.07	0.90
41:BV:71:VAL:CG1	41:BV:110:LYS:HD3	1.99	0.90
41:BV:80:LEU:CG	41:BV:86:ARG:HG3	1.99	0.90
1:AA:1483:A:O3'	18:B3:2001:G:C2	2.25	0.90
1:AA:239:U:O2'	1:AA:288:A:H1'	1.72	0.90
18:B3:375:G:N2	18:B3:411:A:H8	1.37	0.90
18:B3:2222:C:H5'	20:BA:215:ARG:HH22	1.35	0.90
18:B3:1701:A:H4'	18:B3:1702:U:H5''	1.54	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:988:G:C5'	1:AA:1014:A:OP1	2.20	0.90
1:AA:1291:G:C5'	7:AG:111:ARG:NH2	2.33	0.90
9:AI:96:VAL:CG1	9:AI:100:SER:HB2	2.02	0.90
24:BE:51:LEU:CD1	24:BE:64:ILE:HD13	2.01	0.90
36:BQ:71:SER:HA	36:BQ:92:ARG:HE	1.34	0.90
33:BN:58:PRO:HA	33:BN:80:ALA:HB2	1.53	0.90
18:B3:1315:G:H4'	42:B0:103:LYS:HE2	1.51	0.90
23:BD:210:GLU:HG3	23:BD:211:ASP:H	1.36	0.90
18:B3:706:G:N2	34:BO:72:LYS:NZ	2.18	0.90
18:B3:763:C:O2	23:BD:86:GLN:OE1	1.90	0.90
21:BB:180:LYS:HE2	21:BB:181:ALA:HB3	1.54	0.90
26:BG:152:ILE:CG1	26:BG:162:VAL:HG21	2.01	0.90
18:B3:1705:C:C5'	35:BP:62:THR:HB	1.96	0.90
29:BJ:16:LEU:H	29:BJ:70:VAL:HG11	1.35	0.90
1:AA:1059:C:H4'	14:AN:40:GLN:NE2	1.87	0.90
3:AB:121:ILE:HA	3:AB:143:ILE:HG13	1.52	0.90
18:B3:2560:C:C1'	18:B3:2776:A:H2	1.83	0.90
18:B3:1226:G:C5'	18:B3:1244:U:O2	2.18	0.90
32:BM:39:GLU:CA	32:BM:137:LEU:HD23	2.02	0.90
18:B3:1398:G:P	35:BP:23:LEU:HB2	2.10	0.90
1:AA:499:A:O3'	1:AA:500:G:C5'	2.19	0.90
18:B3:730:G:C5'	41:BV:132:LEU:HD13	2.01	0.90
1:AA:1286:A:C2'	1:AA:1287:A:H5''	2.02	0.90
13:AM:16:ARG:HG2	13:AM:22:VAL:HB	1.53	0.90
13:AM:35:ILE:HB	13:AM:38:VAL:HG12	1.52	0.90
18:B3:778:C:C5'	45:BY:9:LYS:NZ	2.34	0.90
9:AI:97:ASP:HB2	9:AI:103:GLU:N	1.85	0.90
18:B3:2363:G:N2	36:BQ:8:ARG:CD	2.34	0.90
33:BN:93:LEU:CD1	33:BN:147:LEU:HD22	2.02	0.90
18:B3:751:U:OP1	23:BD:112:VAL:HA	1.72	0.90
18:B3:1347:U:O2'	23:BD:240:GLY:O	1.89	0.90
1:AA:130:A:O4'	1:AA:190(E):U:C5	2.23	0.90
18:B3:2346:C:C4'	29:BJ:64:ILE:O	2.19	0.90
20:BA:54:LYS:CD	20:BA:156:LYS:HB3	2.02	0.90
1:AA:402:G:C8	1:AA:621:A:C2	2.59	0.90
1:AA:401:C:H5''	5:AD:78:ARG:HG2	1.07	0.90
1:AA:25:C:P	12:AL:39:LYS:HG3	2.11	0.90
1:AA:68:G:O2'	1:AA:170:U:O2	1.90	0.90
2:AT:109:VAL:HG11	2:AT:142:VAL:HG22	1.52	0.90
1:AA:678:U:O2'	11:AK:125:THR:CG2	2.18	0.90
1:AA:779:C:C5'	11:AK:131:ARG:C	2.31	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:102:VAL:CG2	6:AE:189:LEU:HB3	1.99	0.90
1:AA:404:U:O2'	5:AD:23:ARG:N	2.02	0.90
1:AA:239:U:O2'	1:AA:288:A:C4	2.16	0.90
1:AA:124:G:C5'	1:AA:289:G:C2	2.54	0.90
18:B3:1173:A:OP1	30:BK:40:LYS:CE	2.19	0.90
18:B3:475:G:OP1	23:BD:58:GLN:CD	2.10	0.90
2:AT:126:LEU:HD11	2:AT:156:VAL:HG23	1.50	0.90
6:AE:79:VAL:HG21	6:AE:124:ILE:HD11	1.53	0.90
1:AA:1225:A:N7	17:AS:100:LYS:CE	2.35	0.90
1:AA:1014:A:OP2	17:AS:72:LYS:NZ	0.75	0.90
33:BN:134:ARG:HD3	33:BN:135:ILE:H	1.36	0.90
9:AI:45:PHE:CD1	9:AI:77:VAL:HG22	2.06	0.90
1:AA:1148:U:H5'	9:AI:9:PHE:HE1	1.29	0.90
24:BE:42:ALA:CB	24:BE:66:SER:HB3	2.01	0.90
18:B3:448:G:H3'	18:B3:1306:U:H4'	1.54	0.90
23:BD:180:VAL:CG2	23:BD:205:LEU:HD13	2.01	0.90
18:B3:772:G:N3	45:BY:46:TYR:HE2	1.66	0.90
21:BB:97:VAL:HA	21:BB:165:ILE:CB	2.01	0.90
18:B3:92:G:H8	44:BX:41:LEU:CB	1.79	0.90
18:B3:1133:A:OP1	28:BI:162:GLN:OE1	1.89	0.90
18:B3:251:C:H1'	31:BL:139:LYS:CE	1.92	0.90
31:BL:65:VAL:HG23	31:BL:66:ARG:H	1.37	0.90
18:B3:1794:G:H5'	35:BP:97:ARG:HG3	1.53	0.90
18:B3:2890:A:N1	38:BS:50:ALA:O	0.75	0.90
18:B3:2350:G:O6	29:BJ:115:TYR:CD2	2.25	0.90
18:B3:2165:G:O6	20:BA:60:ARG:NH1	2.05	0.90
20:BA:54:LYS:HG3	20:BA:156:LYS:CG	2.01	0.90
1:AA:64:G:O6	1:AA:70:G:N2	2.05	0.90
37:BR:32:ARG:HG2	37:BR:33:ASN:H	1.35	0.90
27:BH:107:ASP:HA	27:BH:112:ILE:CG1	2.02	0.90
27:BH:43:VAL:HG12	32:BM:127:ARG:HD2	1.45	0.90
32:BM:128:LEU:HB3	32:BM:131:GLY:CA	2.01	0.90
1:AA:1070:U:H5'	6:AE:90:ARG:HB3	1.54	0.90
1:AA:924:C:O2'	1:AA:1398:A:C2'	2.20	0.90
18:B3:1096:U:O2'	25:BF:213:TRP:HZ3	1.54	0.90
1:AA:1309:G:H3'	13:AM:123:ARG:HH22	0.82	0.90
18:B3:540:A:H62	42:B0:50:ILE:HD12	1.03	0.90
19:B4:69:U:O2'	24:BE:14:SER:HB2	1.70	0.90
24:BE:207:TYR:CE1	24:BE:208:MET:HB3	2.07	0.90
18:B3:677:C:C3'	23:BD:256:LYS:CG	2.47	0.90
18:B3:944:G:O4'	25:BF:100:LYS:HE3	1.69	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2668:G:C3'	22:BC:128:ALA:HB1	2.02	0.90
22:BC:165:ILE:CG2	22:BC:171:ALA:HB3	2.02	0.90
22:BC:47:GLY:HA3	22:BC:80:THR:HG22	1.52	0.90
37:BR:11:PHE:HB3	37:BR:86:ARG:HE	1.35	0.90
18:B3:2738:G:H4'	35:BP:62:THR:O	1.72	0.90
1:AA:401:C:C5'	5:AD:78:ARG:HG2	1.93	0.90
18:B3:100:C:O2'	40:BU:24:SER:N	2.04	0.90
41:BV:120:VAL:CB	41:BV:122:VAL:HG13	2.02	0.90
18:B3:2663:U:O2	18:B3:2816:A:C5	2.24	0.90
1:AA:994:A:C6	1:AA:1046:A:N3	2.35	0.90
20:BA:94:ASN:HB2	20:BA:123:LEU:CB	2.01	0.90
6:AE:140:ARG:HG2	6:AE:141:GLY:H	1.36	0.90
7:AG:86:CYS:HB2	7:AG:87:PRO:HD3	1.54	0.90
1:AA:989:C:C6	1:AA:1016:A:C5	2.58	0.89
1:AA:1225:A:C1'	17:AS:122:THR:O	2.20	0.89
17:AS:50:THR:HG22	17:AS:51:SER:H	1.35	0.89
18:B3:537:G:H1'	42:B0:21:HIS:CD2	2.05	0.89
1:AA:1177:G:C5'	9:AI:105:LYS:CD	2.39	0.89
18:B3:2295:G:H5"	36:BQ:5:HIS:C	1.90	0.89
36:BQ:40:VAL:CG1	36:BQ:97:LYS:HA	2.01	0.89
18:B3:672:G:P	23:BD:214:ILE:HD12	2.11	0.89
23:BD:191:GLY:HA2	23:BD:194:ARG:CD	2.02	0.89
18:B3:1853:C:H5'	21:BB:238:ALA:O	1.69	0.89
21:BB:177:PRO:CB	47:B9:22:ARG:HD2	2.03	0.89
21:BB:171:GLY:H	47:B9:67:ALA:CA	1.85	0.89
19:B4:85:A:H4'	25:BF:131:PRO:HB3	1.51	0.89
1:AA:254:G:C4'	16:AQ:79:MET:HE1	1.98	0.89
18:B3:92:G:N3	44:BX:42:PRO:HG3	1.85	0.89
18:B3:72:C:C4'	44:BX:49:LYS:NZ	2.34	0.89
18:B3:2757:A:OP1	22:BC:364:PHE:HA	1.70	0.89
22:BC:359:ASP:C	38:BS:14:TYR:HB3	1.93	0.89
18:B3:924:G:N1	41:BV:41:ARG:CB	2.25	0.89
29:BJ:17:VAL:HB	29:BJ:69:THR:HA	1.51	0.89
2:AT:785:ARG:NE	18:B3:2697:A:H62	1.69	0.89
1:AA:778:G:C4'	11:AK:126:ARG:HD2	2.02	0.89
40:BU:33:ALA:HB2	40:BU:104:LEU:HD21	1.51	0.89
18:B3:2403:C:H2'	36:BQ:69:LYS:CD	2.02	0.89
4:AC:100:GLN:HE22	4:AC:135:VAL:HG22	1.34	0.89
32:BM:4:PRO:HA	32:BM:32:ILE:HG12	1.51	0.89
42:B0:19:ARG:HD3	42:B0:20:HIS:N	1.85	0.89
33:BN:38:TRP:HE3	33:BN:42:LYS:HG2	1.37	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1277:C:H5'	34:BO:35:PHE:CE2	2.07	0.89
18:B3:710:G:H5'	34:BO:44:PHE:HD2	1.36	0.89
23:BD:168:LEU:CD1	23:BD:174:HIS:HB2	2.01	0.89
18:B3:1343:C:O2'	23:BD:188:ALA:HB1	1.73	0.89
34:BO:62:VAL:HG13	34:BO:63:SER:H	1.37	0.89
18:B3:820:G:O6	21:BB:181:ALA:HB3	1.72	0.89
37:BR:96:GLU:OE2	38:BS:24:GLY:HA2	1.72	0.89
31:BL:60:ILE:HG22	31:BL:132:ILE:HA	1.54	0.89
18:B3:1714:C:H5'	18:B3:2745:C:O4'	1.73	0.89
18:B3:1814:G:C2'	18:B3:2733:U:C6	2.52	0.89
18:B3:1805:G:H5'	18:B3:2875:A:C4'	1.87	0.89
18:B3:919:U:N3	41:BV:41:ARG:CB	2.35	0.89
18:B3:2347:C:C6	29:BJ:66:VAL:HG11	0.66	0.89
10:AJ:74:GLU:HG3	14:AN:37:ILE:CD1	1.96	0.89
3:AB:169:ILE:HD12	3:AB:173:TRP:HZ3	1.37	0.89
3:AB:22:HIS:HE1	3:AB:171:LEU:HD13	1.36	0.89
1:AA:403:C:HO3'	5:AD:123:HIS:CD2	1.91	0.89
37:BR:60:ALA:N	37:BR:74:MET:HE2	1.88	0.89
18:B3:2579:G:H5'	18:B3:2680:A:C5'	2.01	0.89
1:AA:778:G:C4'	11:AK:126:ARG:CD	2.50	0.89
1:AA:518:C:O2'	12:AL:66:SER:C	2.09	0.89
1:AA:529:G:H1	12:AL:69:ARG:HH21	1.17	0.89
24:BE:54:ARG:HB2	24:BE:61:ILE:CG2	2.01	0.89
1:AA:1329:A:H61	13:AM:95:GLY:N	1.70	0.89
13:AM:131:LEU:CD1	17:AS:121:ILE:HG21	2.00	0.89
17:AS:96:ILE:CG2	17:AS:120:SER:HB2	2.01	0.89
18:B3:777:U:C1'	45:BY:12:ASN:HD21	1.84	0.89
18:B3:844:A:H8	33:BN:130:ARG:HH21	1.10	0.89
18:B3:1018:A:HO2'	36:BQ:60:LYS:HE2	1.12	0.89
18:B3:1310:U:O4	23:BD:181:LEU:HD12	1.71	0.89
47:B9:23:ARG:HD2	47:B9:27:LYS:HE3	1.53	0.89
1:AA:131:C:H5'	16:AQ:128:ARG:NH1	1.84	0.89
18:B3:67:A:O2'	39:BT:60:LYS:HD2	1.73	0.89
22:BC:75:VAL:HG11	22:BC:326:CYS:N	1.87	0.89
18:B3:2519:C:O2'	28:BI:159:PHE:N	2.05	0.89
18:B3:2242:U:O4	18:B3:2257:G:N1	2.04	0.89
18:B3:2244:A:N6	18:B3:2257:G:N3	2.20	0.89
18:B3:1785:G:H4'	18:B3:2733:U:OP1	1.69	0.89
18:B3:1448:A:O3'	39:BT:110:ASN:ND2	2.05	0.89
5:AD:141:VAL:CG1	5:AD:143:ILE:HG22	2.03	0.89
1:AA:46:G:O3'	1:AA:47:C:OP2	1.89	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:101:VAL:HG13	27:BH:113:GLU:CG	2.02	0.89
27:BH:103:ILE:CD1	27:BH:134:ILE:HB	2.00	0.89
18:B3:269:G:H5''	18:B3:274:G:H1'	1.53	0.89
18:B3:1189:A:H1'	18:B3:1209:C:H4'	1.54	0.89
1:AA:988:G:C2'	1:AA:1014:A:H3'	2.01	0.89
7:AG:111:ARG:HH22	9:AI:41:GLU:CG	1.86	0.89
10:AJ:50:LEU:HD13	10:AJ:94:GLU:HB3	1.55	0.89
18:B3:951:A:C5'	36:BQ:43:LYS:CD	2.50	0.89
18:B3:1164:U:O5'	30:BK:47:ALA:O	1.88	0.89
18:B3:1164:U:C2'	30:BK:51:LYS:HB2	2.02	0.89
18:B3:1939:U:O2'	21:BB:242:THR:O	1.89	0.89
1:AA:130:A:OP2	16:AQ:137:ASN:N	2.05	0.89
26:BG:151:LEU:CG	26:BG:185:LEU:HD22	2.02	0.89
20:BA:109:ALA:HA	20:BA:161:LYS:HB3	1.55	0.89
39:BT:104:VAL:HG11	39:BT:125:LEU:HD13	1.55	0.89
1:AA:1419:G:N2	18:B3:1990:C:H5''	1.84	0.89
18:B3:2557:U:C2	18:B3:2800:A:C8	2.60	0.89
18:B3:1225:C:H5''	18:B3:1248:A:C2	2.08	0.89
27:BH:107:ASP:HB3	27:BH:128:VAL:H	1.37	0.89
27:BH:7:GLU:CG	27:BH:56:ALA:HB2	2.02	0.89
18:B3:2552:C:C3'	18:B3:2553:A:N3	2.35	0.89
1:AA:1343:G:C4'	9:AI:138:GLN:N	2.35	0.89
18:B3:1300:G:O6	18:B3:1330:A:C2	2.25	0.89
18:B3:905:C:P	41:BV:11:ARG:HD2	2.13	0.89
1:AA:405:U:O4'	5:AD:23:ARG:N	1.97	0.89
1:AA:124:G:H5'	1:AA:289:G:N2	1.85	0.89
18:B3:199:A:O2'	18:B3:200:U:H5''	1.72	0.89
13:AM:42:TYR:HB3	13:AM:84:TRP:CZ2	2.08	0.89
18:B3:1308:A:C2'	23:BD:204:PRO:HB3	2.02	0.89
18:B3:68:U:N3	44:BX:57:VAL:HG23	1.85	0.89
18:B3:1133:A:C2'	18:B3:2520:G:H1'	1.98	0.89
18:B3:2312:G:O5'	28:BI:22:TYR:HE1	1.53	0.89
29:BJ:75:ALA:HA	29:BJ:78:ILE:CG1	2.02	0.89
18:B3:1507:C:H4'	39:BT:74:LYS:HD2	1.53	0.89
3:AB:138:VAL:HG11	3:AB:140:ILE:HD12	1.53	0.89
3:AB:31:HIS:CD2	8:AH:21:LYS:HE3	2.07	0.89
1:AA:12:U:H5''	1:AA:526:C:H4'	1.49	0.89
18:B3:2796:U:H5''	27:BH:129:ARG:HH12	1.38	0.89
27:BH:41:ILE:O	32:BM:126:LEU:CB	2.19	0.89
27:BH:77:ASN:HD21	27:BH:151:VAL:HB	1.35	0.89
18:B3:1382:G:O2'	43:BW:26:LYS:CG	2.21	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:568:G:OP1	6:AE:202:LYS:CE	2.20	0.89
18:B3:2404:G:H8	36:BQ:69:LYS:HD3	1.07	0.89
1:AA:1301:U:H4'	13:AM:30:TYR:N	1.88	0.89
9:AI:54:VAL:HG12	9:AI:88:LEU:HD21	1.54	0.89
18:B3:2101:A:H3'	23:BD:66:THR:HA	1.51	0.89
23:BD:73:ILE:HG21	23:BD:75:ARG:HB2	1.55	0.89
18:B3:1167:G:OP2	30:BK:48:LYS:HD2	1.72	0.89
22:BC:158:ARG:HD3	22:BC:179:GLU:CG	2.01	0.89
28:BI:154:ARG:HB2	28:BI:154:ARG:NH1	1.88	0.89
31:BL:163:LEU:CD1	31:BL:164:THR:HG22	2.01	0.89
18:B3:1449:G:H5'	39:BT:110:ASN:HD21	1.35	0.89
10:AJ:71:PRO:HD2	14:AN:42:PHE:HB2	1.52	0.89
8:AH:101:VAL:HG12	8:AH:112:HIS:HB3	1.53	0.89
18:B3:1139:U:H1'	27:BH:62:ARG:HH21	1.35	0.89
18:B3:2853:U:OP2	22:BC:170:LEU:HG	1.71	0.89
1:AA:1343:G:C4'	9:AI:138:GLN:CA	2.49	0.89
1:AA:989:C:C5'	1:AA:1013:G:C1'	2.42	0.89
18:B3:841:A:H8	33:BN:131:ALA:HB1	0.74	0.89
18:B3:500:G:N3	33:BN:16:ALA:CB	2.35	0.89
18:B3:1352:A:H4'	23:BD:102:THR:HG21	0.89	0.89
34:BO:60:PRO:HG2	34:BO:86:THR:HG22	1.54	0.89
45:BY:32:THR:HB	45:BY:38:TYR:CD1	2.07	0.89
1:AA:256:U:OP1	16:AQ:81:ARG:CD	2.19	0.89
28:BI:50:VAL:HG22	28:BI:51:HIS:H	1.38	0.89
18:B3:2134:G:H22	18:B3:2241:C:H42	1.17	0.89
20:BA:12:HIS:CE1	20:BA:206:VAL:HG13	2.07	0.89
18:B3:1675:C:C5'	39:BT:113:VAL:HA	1.84	0.89
1:AA:560:U:O2	1:AA:563:A:C4'	2.20	0.89
5:AD:99:LEU:HB3	5:AD:106:GLU:H	1.38	0.89
6:AE:157:THR:CG2	8:AH:127:PHE:CD1	2.50	0.89
1:AA:66:G:C2	1:AA:69:G:N7	2.40	0.89
18:B3:1139:U:C4'	27:BH:62:ARG:HG3	2.03	0.89
1:AA:676:A:H3'	11:AK:121:PRO:HD2	1.55	0.89
43:BW:15:LEU:CA	43:BW:19:LEU:HD12	2.01	0.89
18:B3:81:G:H5'	40:BU:73:VAL:C	1.91	0.89
18:B3:2081:A:C2'	32:BM:69:PRO:CG	2.44	0.89
23:BD:11:THR:CG2	23:BD:13:GLU:HG2	2.03	0.89
1:AA:1016:A:O4'	1:AA:1216:G:N2	2.06	0.89
1:AA:1321:C:H2'	17:AS:81:ARG:HH22	1.38	0.89
18:B3:541:C:H5	42:B0:15:LYS:CG	1.65	0.89
18:B3:1088:A:O2'	18:B3:1089:G:H5''	1.71	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:100:SER:CB	9:AI:116:LEU:HD13	2.02	0.89
1:AA:1124:G:O2'	10:AJ:56:VAL:HG21	1.71	0.89
24:BE:65:ILE:CG2	24:BE:73:VAL:HG23	2.02	0.89
36:BQ:34:TYR:CD1	36:BQ:97:LYS:HD3	2.08	0.89
1:AA:318:G:C4'	1:AA:1468:A:H4'	2.01	0.89
42:B0:76:VAL:HG21	42:B0:94:ALA:HB1	1.54	0.89
18:B3:1304:U:C5'	23:BD:193:TYR:CZ	2.55	0.89
18:B3:1347:U:O2'	23:BD:241:ALA:HB3	1.73	0.89
18:B3:1855:G:C6	21:BB:149:LEU:CB	2.53	0.89
18:B3:1942:A:HO2'	21:BB:222:SER:HB2	1.33	0.89
18:B3:945:U:O2'	25:BF:124:GLU:HB2	1.70	0.89
44:BX:19:SER:N	44:BX:21:LEU:HD22	1.88	0.89
18:B3:2806:C:H4'	22:BC:343:THR:HG21	1.52	0.89
18:B3:1749:U:H4'	22:BC:239:ARG:NH2	1.88	0.89
22:BC:304:ILE:CG1	22:BC:358:ILE:HG12	2.02	0.89
18:B3:2311:A:O2'	28:BI:22:TYR:CE1	2.26	0.89
26:BG:189:VAL:HG13	26:BG:191:GLN:HG2	1.52	0.89
18:B3:2166:G:O6	20:BA:61:PRO:HA	1.70	0.89
1:AA:560:U:O4'	1:AA:563:A:H5'	1.70	0.89
3:AB:123:THR:HG23	3:AB:124:ASP:H	1.38	0.89
5:AD:90:LYS:HB3	6:AE:172:PRO:HB2	1.52	0.89
8:AH:76:PRO:HG3	8:AH:129:TYR:CE2	2.07	0.89
27:BH:17:THR:CB	27:BH:28:VAL:HG21	2.01	0.89
1:AA:677:U:H5'	11:AK:127:LYS:NZ	1.88	0.89
35:BP:43:LEU:HD23	35:BP:44:VAL:N	1.87	0.89
1:AA:668:G:H1'	15:AO:104:ASN:HD22	1.33	0.89
1:AA:989:C:O4'	1:AA:1015:A:C5	2.18	0.89
9:AI:35:ILE:HD11	9:AI:45:PHE:CZ	2.07	0.89
18:B3:2401:A:C1'	36:BQ:7:TYR:OH	2.20	0.89
18:B3:449:A:H5'	18:B3:1306:U:C2	2.08	0.89
34:BO:81:VAL:HG21	34:BO:140:LEU:HD12	1.55	0.89
21:BB:43:ILE:HG13	21:BB:61:VAL:CG1	2.02	0.89
18:B3:1100:G:OP2	19:B4:87:U:O2	1.90	0.89
25:BF:97:LYS:HB3	25:BF:98:PRO:HD3	1.54	0.89
22:BC:162:HIS:HA	22:BC:177:LEU:CB	2.02	0.89
18:B3:2817:G:OP2	22:BC:96:ARG:NH2	2.05	0.89
18:B3:1003:U:O5'	28:BI:90:ARG:CZ	2.21	0.89
18:B3:175:G:H2'	31:BL:194:ASN:CG	1.92	0.89
26:BG:149:LEU:CG	26:BG:210:LEU:HD21	2.02	0.89
18:B3:1705:C:C5'	35:BP:62:THR:HG21	2.03	0.89
35:BP:62:THR:HA	35:BP:65:HIS:CE1	2.08	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2347:C:H6	29:BJ:66:VAL:CB	1.81	0.89
18:B3:2346:C:O2	29:BJ:19:ASN:OD1	1.90	0.89
29:BJ:31:ARG:HB3	29:BJ:34:LYS:CE	2.01	0.89
39:BT:63:GLU:HG3	39:BT:64:GLN:H	1.38	0.89
10:AJ:73:GLY:HA2	14:AN:25:SER:CA	2.02	0.89
10:AJ:78:THR:HG23	14:AN:39:ARG:CG	2.03	0.89
43:BW:59:TRP:HH2	43:BW:66:VAL:HG13	1.35	0.89
18:B3:80:A:H5'	40:BU:74:TYR:CZ	2.08	0.89
18:B3:697:G:C5'	41:BV:130:SER:OG	2.21	0.89
1:AA:1418:A:H2	18:B3:1989:G:N2	1.71	0.89
1:AA:1503:A:C8	1:AA:1531:A:N1	2.41	0.89
1:AA:924:C:H1'	1:AA:1398:A:N3	1.85	0.89
7:AG:161:VAL:CG2	7:AG:165:ARG:HD2	2.03	0.89
4:AC:143:ALA:CB	4:AC:178:GLN:HG2	2.02	0.89
18:B3:2506:A:O2'	18:B3:2507:G:H8	1.56	0.89
1:AA:1221:G:OP2	17:AS:80:MET:C	2.11	0.89
13:AM:88:ARG:NH1	13:AM:115:ARG:CZ	2.20	0.89
18:B3:1018:A:O2'	36:BQ:60:LYS:CB	2.19	0.89
19:B4:49:G:C4	24:BE:94:ASN:HA	2.08	0.89
34:BO:63:SER:H	34:BO:88:THR:HG22	1.35	0.89
34:BO:80:THR:HB	34:BO:101:VAL:CG1	2.00	0.89
18:B3:2526:C:O2	18:B3:2604:A:H4'	1.73	0.89
18:B3:919:U:O2'	41:BV:39:HIS:O	1.88	0.89
10:AJ:78:THR:CG2	14:AN:39:ARG:CB	2.51	0.89
2:AT:463:LEU:HA	2:AT:513:LYS:CE	2.02	0.89
27:BH:8:GLN:HG2	27:BH:72:LYS:HE3	1.55	0.89
32:BM:12:GLY:HA3	32:BM:123:LEU:HD12	1.53	0.89
1:AA:1343:G:OP1	9:AI:139:LYS:HG2	1.73	0.89
1:AA:1484:C:C6	18:B3:2001:G:O2'	2.26	0.89
18:B3:1811:A:N3	18:B3:2752:C:C2	2.41	0.89
18:B3:918:G:C2'	41:BV:44:MET:SD	2.61	0.89
33:BN:127:ARG:HB2	33:BN:138:TYR:HB3	1.53	0.89
24:BE:219:PHE:CE1	24:BE:222:LEU:HB2	2.08	0.89
11:AK:37:THR:HG21	11:AK:73:VAL:HG21	1.52	0.89
1:AA:988:G:C2'	1:AA:1015:A:C8	2.52	0.88
1:AA:990:C:O2'	1:AA:1017:G:OP1	1.91	0.88
1:AA:1309:G:O6	13:AM:95:GLY:N	1.81	0.88
7:AG:110:VAL:CG2	9:AI:43:LEU:HG	2.02	0.88
24:BE:20:PHE:CG	24:BE:24:ARG:HB2	2.08	0.88
24:BE:58:LYS:HA	24:BE:93:THR:HB	1.54	0.88
47:B9:55:THR:CG2	47:B9:61:LYS:HG2	2.02	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:3:VAL:HG13	21:BB:7:GLN:CG	2.02	0.88
25:BF:206:LEU:HD11	25:BF:242:MET:CA	2.03	0.88
18:B3:93:C:H5'	44:BX:42:PRO:O	1.72	0.88
28:BI:135:ILE:HG22	28:BI:136:PHE:CD2	2.08	0.88
26:BG:113:ALA:HB2	26:BG:119:LYS:CB	2.03	0.88
26:BG:135:LEU:HG	26:BG:161:LEU:HB3	1.55	0.88
18:B3:1809:G:H4'	18:B3:2731:G:C5'	2.01	0.88
18:B3:2351:C:C2	29:BJ:115:TYR:HA	2.08	0.88
20:BA:55:LEU:HD21	20:BA:167:VAL:CG2	2.01	0.88
18:B3:1993:C:O4'	37:BR:72:LYS:HG2	1.72	0.88
1:AA:1086:U:C3'	1:AA:1389:C:H4'	2.02	0.88
35:BP:40:ILE:HA	35:BP:43:LEU:HD21	1.55	0.88
18:B3:2552:C:H1'	18:B3:2553:A:O2'	1.73	0.88
1:AA:1497:G:N3	1:AA:1518:A:C5	2.24	0.88
40:BU:81:GLN:HG2	40:BU:82:VAL:H	1.38	0.88
1:AA:1483:A:O3'	18:B3:2001:G:N2	2.05	0.88
15:AO:77:ASN:CB	15:AO:85:GLU:HG3	2.03	0.88
1:AA:1317:C:C5	17:AS:56:PHE:CZ	2.55	0.88
1:AA:1329:A:N1	13:AM:94:ASP:CA	2.22	0.88
18:B3:537:G:C3'	42:B0:21:HIS:NE2	2.37	0.88
18:B3:621:C:H3'	42:B0:36:LYS:CD	2.03	0.88
18:B3:2368:A:C2	24:BE:150:LEU:CD2	2.30	0.88
18:B3:2413:A:O2'	24:BE:174:PRO:HB3	1.73	0.88
30:BK:85:LEU:HD11	30:BK:102:GLY:HA3	1.54	0.88
47:B9:29:GLU:HB3	47:B9:31:GLN:N	1.88	0.88
47:B9:56:CYS:HB3	47:B9:61:LYS:HD2	1.54	0.88
18:B3:1206:C:C3'	18:B3:1207:A:H8	1.84	0.88
18:B3:2668:G:C4'	22:BC:128:ALA:CB	2.50	0.88
18:B3:2840:A:OP1	22:BC:225:PHE:N	2.06	0.88
18:B3:2847:G:OP1	22:BC:174:LYS:N	2.05	0.88
18:B3:2737:C:C6	35:BP:60:SER:CB	2.56	0.88
18:B3:2337:G:OP1	29:BJ:103:PHE:CB	2.19	0.88
18:B3:1674:C:OP2	39:BT:111:THR:HA	0.72	0.88
5:AD:86:LEU:HG	5:AD:97:LEU:CA	2.02	0.88
1:AA:1372:U:C5'	9:AI:74:VAL:CG2	2.13	0.88
1:AA:309:G:N2	1:AA:607:A:H61	1.72	0.88
1:AA:829:G:O2'	3:AB:126:ARG:NH2	2.05	0.88
13:AM:81:ILE:HG13	13:AM:82:PRO:HD2	1.53	0.88
18:B3:2152:C:H4'	18:B3:2153:G:OP1	1.73	0.88
38:BS:44:LYS:HE3	38:BS:44:LYS:HA	1.55	0.88
13:AM:18:LEU:HD11	13:AM:74:GLN:HA	1.54	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:129:TRP:CE3	17:AS:121:ILE:HG12	2.07	0.88
19:B4:68:G:H21	24:BE:11:ALA:HB1	1.06	0.88
19:B4:48:C:H2'	24:BE:158:ARG:HG3	1.55	0.88
19:B4:11:A:N6	24:BE:16:PHE:N	1.88	0.88
33:BN:111:LEU:HB3	33:BN:150:THR:HG22	1.51	0.88
18:B3:29:C:C4'	18:B3:1342:C:OP1	2.22	0.88
23:BD:187:ARG:HB3	23:BD:197:ARG:CG	2.04	0.88
34:BO:93:ILE:HD12	34:BO:117:ALA:HB3	1.54	0.88
18:B3:2671:U:O2'	22:BC:158:ARG:HD3	1.72	0.88
18:B3:1798:C:P	35:BP:70:ARG:O	2.31	0.88
18:B3:2734:G:H5''	35:BP:79:LYS:HD3	1.53	0.88
18:B3:924:G:C5	41:BV:41:ARG:HG3	2.07	0.88
29:BJ:95:PHE:HB3	29:BJ:101:PHE:CB	2.02	0.88
29:BJ:141:LYS:HD3	29:BJ:144:LYS:HE2	1.53	0.88
1:AA:70:G:H22	1:AA:101:A:H61	1.18	0.88
1:AA:144:G:C6	1:AA:199:G:H5'	2.08	0.88
43:BW:61:ARG:HD3	43:BW:65:GLY:HA3	1.54	0.88
1:AA:1344:C:H5'	9:AI:136:ARG:N	1.88	0.88
7:AG:85:GLN:HG3	7:AG:93:THR:HB	1.54	0.88
1:AA:978:A:O2'	17:AS:81:ARG:HG2	1.72	0.88
18:B3:540:A:C5'	42:B0:17:PHE:HA	2.04	0.88
18:B3:620:A:O3'	42:B0:40:SER:HB3	1.73	0.88
7:AG:110:VAL:HG23	9:AI:43:LEU:HG	1.53	0.88
1:AA:1177:G:H4'	9:AI:105:LYS:HD3	1.31	0.88
18:B3:28:G:H1'	18:B3:1317:A:N1	1.89	0.88
23:BD:7:VAL:CG1	23:BD:16:ALA:HB3	2.02	0.88
18:B3:671:A:H5'	23:BD:212:ASN:HA	1.54	0.88
18:B3:1180:C:O2	30:BK:110:ILE:CD1	2.22	0.88
21:BB:79:GLU:HG3	21:BB:80:GLY:H	1.35	0.88
22:BC:239:ARG:HA	22:BC:242:HIS:CB	2.02	0.88
22:BC:44:SER:HB2	22:BC:180:ILE:HG21	1.55	0.88
22:BC:48:TYR:HA	22:BC:78:VAL:HG13	1.54	0.88
18:B3:156:C:H4'	31:BL:163:LEU:O	1.74	0.88
20:BA:63:MET:CG	20:BA:108:ASN:HB3	2.03	0.88
8:AH:36:PHE:CE1	8:AH:102:ILE:HG21	2.09	0.88
1:AA:25:C:OP2	12:AL:39:LYS:CE	2.21	0.88
2:AT:141:THR:O	2:AT:483:PHE:CE2	2.26	0.88
35:BP:31:ILE:CG2	35:BP:43:LEU:HD12	2.03	0.88
40:BU:82:VAL:HB	40:BU:85:VAL:HB	1.56	0.88
18:B3:906:C:C2	18:B3:1328:A:C4	2.58	0.88
18:B3:2663:U:C2	18:B3:2816:A:C5	2.61	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1882:C:P	21:BB:199:ARG:O	2.31	0.88
18:B3:844:A:O4'	33:BN:133:GLY:HA3	1.73	0.88
19:B4:119:C:O4'	24:BE:71:GLY:HA3	1.73	0.88
18:B3:27:U:C5	18:B3:1319:G:O2'	2.02	0.88
23:BD:151:VAL:HG12	23:BD:152:SER:H	1.36	0.88
18:B3:1181:A:C4'	30:BK:109:ILE:HG13	2.00	0.88
47:B9:22:ARG:NH2	47:B9:25:VAL:HB	1.88	0.88
21:BB:106:VAL:HG22	21:BB:107:PRO:HD2	1.54	0.88
18:B3:953:G:OP2	36:BQ:13:TYR:HB2	0.70	0.88
18:B3:487:G:C3'	40:BU:90:VAL:CG1	2.12	0.88
18:B3:1742:A:H5'	18:B3:2723:G:C3'	2.02	0.88
18:B3:2821:C:H5'	22:BC:103:THR:C	1.94	0.88
28:BI:105:CYS:H	28:BI:112:GLN:H	1.20	0.88
37:BR:91:VAL:CG2	38:BS:17:ARG:HA	2.02	0.88
26:BG:115:VAL:HG22	26:BG:116:ALA:H	1.39	0.88
26:BG:141:LEU:HD13	26:BG:147:ALA:HB3	1.52	0.88
26:BG:147:ALA:HA	26:BG:201:GLU:HA	1.56	0.88
29:BJ:91:ARG:HE	29:BJ:169:ASP:HB2	1.36	0.88
20:BA:55:LEU:HD12	20:BA:157:PHE:HA	0.89	0.88
20:BA:51:GLY:H	20:BA:54:LYS:CA	1.85	0.88
1:AA:560:U:C2	1:AA:563:A:H4'	2.08	0.88
3:AB:75:ILE:HG23	3:AB:122:VAL:HG23	1.54	0.88
18:B3:1120:U:C4	18:B3:1226:G:OP1	2.27	0.88
18:B3:1139:U:C4'	27:BH:62:ARG:NE	2.36	0.88
18:B3:1381:A:N7	43:BW:25:LYS:HA	1.89	0.88
18:B3:906:C:C2	18:B3:1328:A:C5	2.55	0.88
41:BV:106:ALA:HA	41:BV:108:TYR:CD1	2.09	0.88
2:AT:738:GLN:HA	18:B3:1199:A:H61	1.29	0.88
18:B3:145:A:C2'	31:BL:111:ASN:OD1	2.21	0.88
18:B3:882:A:C5'	45:BY:1:GLY:C	2.42	0.88
18:B3:26:U:O2'	18:B3:1320:U:C6	2.26	0.88
18:B3:751:U:H5'	23:BD:36:THR:HG21	1.53	0.88
18:B3:1309:U:O3'	23:BD:203:GLY:C	2.11	0.88
34:BO:62:VAL:HG21	34:BO:87:VAL:CB	2.04	0.88
21:BB:110:THR:HG23	21:BB:112:VAL:HG23	1.56	0.88
16:AQ:111:SER:HB2	16:AQ:112:PRO:HD3	1.53	0.88
18:B3:488:U:OP1	40:BU:90:VAL:HG22	1.72	0.88
28:BI:156:ARG:HD2	28:BI:163:GLN:N	1.89	0.88
18:B3:262:A:C6	26:BG:191:GLN:NE2	2.41	0.88
18:B3:920:C:OP1	41:BV:38:HIS:ND1	2.07	0.88
18:B3:2345:A:N3	29:BJ:23:GLY:O	2.06	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1508:C:H4'	39:BT:77:ASP:HB2	1.53	0.88
18:B3:2460:A:O4'	46:BZ:59:LYS:HB3	1.72	0.88
1:AA:499:A:HO2'	1:AA:500:G:H5'	1.35	0.88
18:B3:1153:C:OP2	18:B3:1155:G:N7	2.06	0.88
23:BD:10:LEU:HD11	23:BD:155:LEU:HB2	1.55	0.88
1:AA:1301:U:C4'	13:AM:30:TYR:N	2.37	0.88
19:B4:49:G:P	24:BE:158:ARG:CG	2.60	0.88
1:AA:319:G:N9	1:AA:1434:A:C2	2.40	0.88
18:B3:678:G:C8	23:BD:259:GLN:HG3	2.08	0.88
21:BB:177:PRO:HB3	47:B9:22:ARG:NE	1.86	0.88
18:B3:1652:C:O2'	21:BB:187:LYS:HG3	1.73	0.88
18:B3:1285:U:H4'	25:BF:155:ILE:HD11	1.56	0.88
25:BF:105:LEU:HB2	25:BF:107:LEU:HD11	1.55	0.88
18:B3:1206:C:N3	18:B3:1207:A:C2	2.30	0.88
35:BP:105:LEU:CD2	35:BP:137:LEU:HD11	2.04	0.88
18:B3:2350:G:H22	29:BJ:116:ASP:CB	1.76	0.88
20:BA:157:PHE:CE2	20:BA:165:LEU:HD22	2.08	0.88
18:B3:1671:U:C5	39:BT:108:LYS:NZ	2.41	0.88
27:BH:34:LEU:HD12	27:BH:150:SER:HB3	1.55	0.88
18:B3:1139:U:H4'	27:BH:62:ARG:HE	1.37	0.88
1:AA:1405:G:C5	1:AA:1519:A:O4'	2.25	0.88
1:AA:1496:C:O2	1:AA:1518:A:N9	2.06	0.88
1:AA:105:G:O2'	1:AA:379:C:O3'	1.90	0.88
29:BJ:51:TYR:O	29:BJ:58:ILE:HA	1.73	0.88
1:AA:1224:G:C2	13:AM:137:HIS:CD2	2.44	0.88
1:AA:1301:U:C5'	13:AM:29:VAL:C	2.39	0.88
18:B3:540:A:O5'	42:B0:15:LYS:CE	2.12	0.88
1:AA:1118:C:H5''	9:AI:118:ALA:CB	2.04	0.88
18:B3:951:A:C5'	36:BQ:43:LYS:HD3	2.03	0.88
19:B4:50:G:OP2	24:BE:94:ASN:O	1.72	0.88
18:B3:2048:C:C5'	33:BN:68:ARG:CD	2.48	0.88
31:BL:82:LYS:HE3	46:BZ:49:PHE:CD1	1.77	0.88
21:BB:116:GLU:HG2	21:BB:162:ARG:HE	1.36	0.88
21:BB:82:HIS:HD2	47:B9:62:THR:C	1.77	0.88
25:BF:152:PHE:CB	25:BF:200:PHE:HB2	2.02	0.88
1:AA:190(D):U:O4	16:AQ:112:PRO:CG	2.21	0.88
18:B3:2820:A:C4'	22:BC:90:GLY:H	1.87	0.88
22:BC:282:TYR:CD2	22:BC:324:LYS:HB3	2.09	0.88
28:BI:103:LEU:HB2	28:BI:118:ALA:CB	2.02	0.88
28:BI:38:LYS:CG	28:BI:40:LYS:HE3	2.03	0.88
26:BG:132:LYS:CG	26:BG:141:LEU:HD23	2.04	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:921:G:H5'	41:BV:42:ILE:H	1.11	0.88
10:AJ:71:PRO:HA	14:AN:30:VAL:H	1.37	0.88
3:AB:139:ASN:CA	8:AH:69:ASN:O	2.21	0.88
5:AD:86:LEU:HB3	5:AD:96:VAL:HG13	1.55	0.88
1:AA:35:G:H5'	12:AL:128:SER:HB2	1.55	0.88
1:AA:553:A:C4	12:AL:46:SER:CA	2.46	0.88
18:B3:1117:A:OP2	18:B3:1225:C:N3	1.77	0.88
18:B3:1227:C:C4'	32:BM:132:ARG:CZ	2.51	0.88
27:BH:63:LYS:CE	32:BM:129:LYS:HD2	2.04	0.88
18:B3:906:C:N3	18:B3:1328:A:C4	2.42	0.88
3:AB:37:PHE:HB3	3:AB:46:VAL:HG13	1.56	0.88
18:B3:2370:A:H61	36:BQ:49:GLN:HE22	0.90	0.88
42:B0:64:LYS:HE3	42:B0:65:PHE:CE1	2.08	0.88
18:B3:541:C:C3'	42:B0:15:LYS:HB2	2.04	0.88
19:B4:13:A:O2'	24:BE:20:PHE:HZ	1.44	0.88
19:B4:5:G:C3'	24:BE:27:LYS:HZ1	1.85	0.88
19:B4:6:C:O2	24:BE:72:ASP:OD2	1.91	0.88
18:B3:1019:C:H4'	36:BQ:61:THR:CG2	2.03	0.88
33:BN:47:LEU:HD12	33:BN:87:VAL:HG13	1.54	0.88
18:B3:35:U:H5'	23:BD:49:TYR:CA	2.04	0.88
18:B3:518:G:C5'	18:B3:1338:U:H1'	2.04	0.88
23:BD:181:LEU:HD12	23:BD:202:ARG:HA	1.55	0.88
21:BB:177:PRO:CG	47:B9:25:VAL:CG2	2.51	0.88
19:B4:85:A:O3'	25:BF:218:LYS:HD2	1.74	0.88
1:AA:132:C:O2'	1:AA:262:A:H2'	1.74	0.88
16:AQ:124:VAL:CG2	16:AQ:136:PHE:HB3	2.02	0.88
18:B3:106:A:H5''	44:BX:60:GLU:OE2	1.72	0.88
22:BC:219:VAL:HG13	22:BC:272:HIS:H	1.36	0.88
18:B3:2264:A:C5'	31:BL:92:LYS:HZ2	1.86	0.88
26:BG:162:VAL:HA	26:BG:165:LEU:CD2	2.04	0.88
39:BT:85:VAL:HG22	39:BT:86:SER:H	1.37	0.88
18:B3:2558:G:C1'	18:B3:2799:A:O2'	2.22	0.88
18:B3:2381:C:C2'	46:BZ:10:TYR:CD1	2.47	0.88
18:B3:903:U:O4	41:BV:15:SER:HB2	1.69	0.88
1:AA:111:G:C2	1:AA:389:A:H5'	2.09	0.88
18:B3:875:A:N9	21:BB:203:MET:HE1	1.89	0.88
18:B3:1467:C:OP1	31:BL:33:ASN:CG	2.12	0.88
18:B3:1189:A:O2'	18:B3:1209:C:H5'	1.74	0.88
13:AM:23:ASP:CB	13:AM:31:ALA:HB1	2.04	0.88
18:B3:841:A:H62	33:BN:132:HIS:C	1.60	0.88
24:BE:183:TRP:CB	24:BE:187:THR:HA	2.03	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:659:A:OP1	34:BO:107:THR:HG22	1.74	0.88
23:BD:33:ILE:CG2	23:BD:120:ALA:HB2	2.02	0.88
18:B3:1311:G:N7	23:BD:185:LYS:HG3	1.87	0.88
18:B3:1343:C:C2'	23:BD:188:ALA:CB	2.51	0.88
23:BD:196:ARG:HG3	23:BD:198:TRP:CD2	2.08	0.88
18:B3:671:A:C5'	23:BD:212:ASN:HA	2.04	0.88
23:BD:215:VAL:HG13	23:BD:218:LEU:HB2	1.55	0.88
47:B9:32:GLN:HG2	47:B9:68:TYR:HB2	1.53	0.88
18:B3:782:G:C4'	21:BB:189:ARG:NH1	2.35	0.88
18:B3:2283:G:C6	28:BI:105:CYS:HB3	2.09	0.88
22:BC:365:GLY:C	38:BS:33:ASN:HB3	1.94	0.88
31:BL:66:ARG:HB3	31:BL:67:ARG:NH2	1.89	0.88
18:B3:919:U:C2	41:BV:41:ARG:CB	2.56	0.88
20:BA:154:THR:OG1	20:BA:160:LYS:N	2.07	0.88
10:AJ:73:GLY:HA2	14:AN:25:SER:HB3	1.53	0.88
6:AE:219:ASN:OD1	8:AH:128:VAL:O	1.58	0.88
1:AA:1087:G:OP1	1:AA:1389:C:C1'	2.21	0.88
18:B3:2382:A:N9	46:BZ:10:TYR:CE2	2.42	0.88
18:B3:100:C:H1'	40:BU:24:SER:CA	2.04	0.88
18:B3:881:C:O2	45:BY:7:PHE:CZ	2.26	0.88
18:B3:698:A:H5"	41:BV:114:LYS:CB	2.04	0.88
16:AQ:93:ILE:CD1	16:AQ:96:TYR:HB2	2.01	0.88
1:AA:989:C:C6	1:AA:1016:A:C6	2.61	0.87
42:B0:19:ARG:HA	42:B0:19:ARG:HH11	1.39	0.87
18:B3:449:A:O5'	18:B3:1349:G:N2	2.06	0.87
18:B3:1308:A:HO2'	23:BD:204:PRO:HB3	1.08	0.87
21:BB:149:LEU:HD12	21:BB:153:ALA:HB3	1.55	0.87
21:BB:97:VAL:CG2	21:BB:165:ILE:HG21	2.03	0.87
18:B3:1741:U:O3'	18:B3:2723:G:O3'	1.92	0.87
22:BC:85:VAL:HB	22:BC:159:VAL:CG2	2.03	0.87
22:BC:70:GLU:OE2	37:BR:11:PHE:HE1	1.52	0.87
28:BI:53:VAL:CG2	28:BI:164:LYS:HB3	2.04	0.87
18:B3:2762:C:C2	37:BR:83:LYS:HE3	2.07	0.87
29:BJ:75:ALA:CB	29:BJ:78:ILE:HD11	2.04	0.87
18:B3:2214:A:C2'	20:BA:106:LYS:HB3	2.03	0.87
39:BT:64:GLN:HB2	39:BT:65:PRO:HD2	1.53	0.87
4:AC:10:LEU:HD23	4:AC:11:VAL:H	1.39	0.87
2:AT:140:GLU:HB2	2:AT:481:MET:HG2	1.54	0.87
18:B3:2578:G:C8	18:B3:2801:A:H4'	2.08	0.87
18:B3:2780:C:O2'	27:BH:159:ALA:CB	2.21	0.87
27:BH:9:GLN:HA	27:BH:54:LYS:CB	2.04	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2459:G:OP1	46:BZ:86:ARG:HD2	1.71	0.87
40:BU:73:VAL:HG12	40:BU:74:TYR:H	1.35	0.87
1:AA:57:G:H1'	1:AA:368:U:O2	1.72	0.87
1:AA:988:G:H2'	1:AA:1015:A:C5	2.07	0.87
13:AM:88:ARG:CZ	13:AM:115:ARG:NH1	2.38	0.87
19:B4:68:G:O3'	24:BE:13:SER:CB	2.21	0.87
33:BN:104:LYS:HB3	33:BN:106:LEU:HD11	1.53	0.87
33:BN:13:SER:HB2	33:BN:149:VAL:HG11	1.55	0.87
18:B3:1370:G:N7	33:BN:27:ASN:OD1	2.07	0.87
18:B3:471:G:H5''	45:BY:15:HIS:NE2	1.89	0.87
18:B3:1164:U:OP1	30:BK:50:THR:CB	2.22	0.87
18:B3:107:U:C5	44:BX:60:GLU:O	2.28	0.87
18:B3:2652:U:O2'	22:BC:257:ALA:CB	2.21	0.87
22:BC:92:VAL:CG2	22:BC:154:ALA:HA	1.99	0.87
18:B3:401:C:O4'	31:BL:94:GLN:HA	1.72	0.87
39:BT:124:ARG:HB3	39:BT:124:ARG:CZ	2.03	0.87
1:AA:826:C:H5'	8:AH:27:ARG:NH1	1.89	0.87
27:BH:48:VAL:CA	27:BH:53:ILE:HG22	2.04	0.87
1:AA:679:C:O4'	11:AK:125:THR:HG21	1.75	0.87
18:B3:1397:C:O3'	35:BP:23:LEU:HB3	1.73	0.87
43:BW:53:GLU:HG3	43:BW:54:LEU:H	1.37	0.87
1:AA:1496:C:C5	1:AA:1517:G:N2	2.19	0.87
1:AA:1497:G:H8	1:AA:1517:G:O6	1.56	0.87
40:BU:30:LEU:HD13	40:BU:78:PHE:CE1	2.08	0.87
1:AA:1343:G:H5'	9:AI:138:GLN:C	1.93	0.87
1:AA:989:C:H1'	1:AA:1015:A:H2'	1.57	0.87
1:AA:318:G:N2	1:AA:1433:A:C6	2.42	0.87
23:BD:130:VAL:HG13	23:BD:134:VAL:HG23	1.56	0.87
18:B3:675:U:H2'	23:BD:233:ASN:ND2	1.89	0.87
30:BK:37:LEU:CD2	30:BK:42:VAL:HG21	2.00	0.87
18:B3:1652:C:C6	21:BB:173:ARG:NH1	2.41	0.87
18:B3:782:G:H4'	21:BB:189:ARG:HH12	1.38	0.87
18:B3:1853:C:H5''	21:BB:238:ALA:O	1.73	0.87
18:B3:67:A:N3	39:BT:60:LYS:CE	2.36	0.87
18:B3:1806:G:C3'	18:B3:2884:G:H21	1.84	0.87
1:AA:400:C:O2	1:AA:622:A:H2'	1.73	0.87
1:AA:12:U:C5'	1:AA:526:C:O4'	2.20	0.87
2:AT:144:ARG:CD	2:AT:482:LYS:HA	2.05	0.87
43:BW:15:LEU:HA	43:BW:19:LEU:CD1	2.01	0.87
1:AA:518:C:O2	12:AL:65:ASN:HA	1.74	0.87
20:BA:169:VAL:CG2	20:BA:179:LEU:HD21	2.04	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:959:A:C8	17:AS:100:LYS:HB3	2.08	0.87
10:AJ:52:LYS:HE2	10:AJ:93:LEU:HD13	1.55	0.87
18:B3:1010:C:O3'	24:BE:15:ARG:NE	2.07	0.87
33:BN:59:PHE:CD2	33:BN:80:ALA:HA	2.09	0.87
18:B3:1308:A:N6	23:BD:201:ARG:CZ	2.38	0.87
18:B3:1310:U:O4	23:BD:201:ARG:CB	2.22	0.87
18:B3:449:A:H2'	18:B3:1350:U:O2	1.74	0.87
23:BD:30:ARG:CB	23:BD:33:ILE:HD13	2.05	0.87
18:B3:635:A:H5'	23:BD:91:ASN:OD1	1.42	0.87
18:B3:1168:C:O5'	30:BK:114:ARG:NH1	1.97	0.87
47:B9:48:ARG:CA	47:B9:54:TRP:HB3	1.99	0.87
18:B3:1875:A:H5''	21:BB:127:ARG:HH22	0.98	0.87
44:BX:18:ALA:HA	44:BX:21:LEU:HD13	1.54	0.87
22:BC:145:ARG:NH1	22:BC:145:ARG:HA	1.90	0.87
37:BR:15:LEU:HG	37:BR:51:ALA:HB1	1.54	0.87
22:BC:357:TRP:CA	38:BS:15:PRO:HB3	2.05	0.87
26:BG:105:LYS:HB2	26:BG:108:LEU:CD2	2.05	0.87
18:B3:2890:A:H8	18:B3:2890:A:H5''	1.37	0.87
18:B3:921:G:N3	41:BV:40:HIS:CB	2.38	0.87
18:B3:2214:A:C2'	20:BA:106:LYS:CG	2.50	0.87
2:AT:463:LEU:C	2:AT:513:LYS:HZ2	1.77	0.87
18:B3:2796:U:H5'	27:BH:156:GLN:HE21	1.38	0.87
18:B3:2704:C:C2	27:BH:121:LYS:HB2	2.10	0.87
18:B3:2381:C:H2'	46:BZ:10:TYR:CD2	2.10	0.87
41:BV:135:GLU:HB3	41:BV:136:LYS:HZ3	1.39	0.87
1:AA:1483:A:O3'	18:B3:2001:G:N3	2.07	0.87
1:AA:924:C:H1'	1:AA:1398:A:C4	2.07	0.87
18:B3:2676:C:H5'	32:BM:73:ARG:NH2	1.89	0.87
18:B3:219:G:OP1	46:BZ:41:ARG:NH2	2.07	0.87
1:AA:1221:G:O2'	17:AS:96:ILE:O	1.70	0.87
1:AA:1320:C:H42	17:AS:116:LEU:HB2	1.04	0.87
18:B3:2061:C:H5'	42:B0:24:ARG:CG	2.04	0.87
33:BN:35:ILE:HB	33:BN:43:ALA:HB2	1.55	0.87
18:B3:671:A:H5''	23:BD:212:ASN:O	1.74	0.87
18:B3:449:A:H2'	23:BD:46:ARG:CZ	2.04	0.87
25:BF:177:ILE:CD1	25:BF:178:LEU:HD12	2.03	0.87
18:B3:2468:A:C5	46:BZ:55:PRO:CD	2.58	0.87
18:B3:487:G:C2'	40:BU:90:VAL:HG11	2.03	0.87
18:B3:68:U:O4'	44:BX:55:LEU:HB2	1.68	0.87
18:B3:2093:G:O2'	22:BC:253:ALA:HB1	1.06	0.87
18:B3:2830:U:C1'	22:BC:126:LYS:NZ	2.37	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:185:GLY:H	22:BC:190:LYS:HE3	1.38	0.87
18:B3:2614:C:H4'	22:BC:241:THR:N	1.88	0.87
31:BL:97:LEU:H	31:BL:97:LEU:HD22	1.40	0.87
7:AG:186:ILE:HG23	7:AG:188:THR:H	1.37	0.87
18:B3:2336:G:N2	29:BJ:127:TYR:CD1	2.43	0.87
20:BA:56:PRO:N	20:BA:155:ILE:HG22	1.51	0.87
5:AD:102:GLU:CA	5:AD:190:GLU:HB2	2.04	0.87
1:AA:553:A:C2'	12:AL:45:GLY:HA2	1.91	0.87
35:BP:21:VAL:HG23	35:BP:22:TRP:CH2	2.10	0.87
43:BW:31:ALA:HB1	43:BW:58:ILE:HD11	1.56	0.87
43:BW:61:ARG:CZ	43:BW:61:ARG:HB3	2.05	0.87
18:B3:2457:U:O3'	46:BZ:83:THR:CA	2.22	0.87
1:AA:547:A:O5'	5:AD:19:TYR:O	1.83	0.87
18:B3:700:A:OP2	41:BV:115:GLY:CA	2.22	0.87
2:AT:757:GLU:HB2	18:B3:1171:A:H1'	1.54	0.87
2:AT:29:ASP:CG	18:B3:2693:U:P	2.53	0.87
9:AI:17:ALA:CB	9:AI:80:ILE:HD13	2.04	0.87
19:B4:68:G:C2	24:BE:11:ALA:HB3	2.10	0.87
18:B3:2388:C:OP1	36:BQ:88:ARG:HB3	1.73	0.87
1:AA:335:C:C1'	1:AA:1434:A:H8	1.65	0.87
33:BN:43:ALA:HA	33:BN:46:TYR:CB	2.03	0.87
18:B3:1939:U:C4'	21:BB:241:ARG:HG3	2.04	0.87
1:AA:131:C:C5'	16:AQ:128:ARG:NH1	2.20	0.87
22:BC:92:VAL:HG22	22:BC:154:ALA:CA	2.00	0.87
28:BI:26:VAL:CG1	28:BI:125:LEU:HD11	2.04	0.87
18:B3:1800:G:P	35:BP:69:LYS:NZ	2.47	0.87
18:B3:1816:C:C6	18:B3:2746:A:C2	2.62	0.87
29:BJ:20:ILE:HG21	29:BJ:65:ALA:CB	2.05	0.87
18:B3:2347:C:H1'	29:BJ:67:HIS:C	1.93	0.87
20:BA:12:HIS:CD2	20:BA:206:VAL:HG22	2.09	0.87
14:AN:29:LEU:CD1	14:AN:38:CYS:HA	2.04	0.87
5:AD:85:VAL:CG1	5:AD:86:LEU:HD22	2.05	0.87
18:B3:2596:A:HO2'	37:BR:74:MET:CE	1.86	0.87
18:B3:2579:G:O3'	18:B3:2680:A:N7	2.06	0.87
27:BH:68:LEU:HB3	32:BM:127:ARG:CZ	2.05	0.87
43:BW:28:ALA:HB3	43:BW:29:PRO:HD3	1.55	0.87
1:AA:1375:A:N1	7:AG:76:TYR:CE1	2.42	0.87
18:B3:697:G:H2'	41:BV:112:LEU:CD1	2.05	0.87
1:AA:125:U:OP1	1:AA:310:G:N2	2.08	0.87
1:AA:1016:A:H1'	1:AA:1216:G:H22	1.39	0.87
1:AA:1296:C:H4'	13:AM:52:VAL:O	1.73	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1322:C:OP2	13:AM:138:THR:CG2	2.21	0.87
18:B3:2413:A:C2'	24:BE:174:PRO:CB	2.51	0.87
18:B3:2087:C:H4'	33:BN:78:THR:HB	1.57	0.87
18:B3:493:U:H5'	33:BN:99:ALA:HB1	1.54	0.87
18:B3:170:U:OP1	31:BL:82:LYS:HA	1.75	0.87
18:B3:1167:G:H4'	30:BK:111:GLU:HA	1.56	0.87
1:AA:131:C:C6	16:AQ:128:ARG:NE	2.42	0.87
18:B3:1735:C:H5''	22:BC:244:GLY:CA	2.03	0.87
18:B3:2837:U:C2	22:BC:334:ILE:CA	2.41	0.87
18:B3:2806:C:C5'	22:BC:343:THR:OG1	2.23	0.87
31:BL:32:LYS:HA	31:BL:32:LYS:HE2	1.57	0.87
31:BL:32:LYS:HG2	31:BL:36:HIS:CE1	2.08	0.87
18:B3:1676:G:C4'	39:BT:115:PRO:CG	2.51	0.87
3:AB:32:GLN:HE22	3:AB:152:SER:HB3	1.38	0.87
5:AD:162:SER:HB2	5:AD:163:PRO:HD3	1.57	0.87
8:AH:36:PHE:CD1	8:AH:102:ILE:HD13	2.10	0.87
18:B3:905:C:H5''	41:BV:11:ARG:HD2	1.54	0.87
1:AA:405:U:OP2	5:AD:37:LYS:HG3	1.75	0.87
1:AA:948:C:C3'	13:AM:141:THR:HG23	1.92	0.87
1:AA:1503:A:H5'	1:AA:1530:G:C2	2.01	0.87
1:AA:1341:U:O2'	9:AI:140:SER:CA	2.22	0.87
2:AT:744:TYR:CE2	18:B3:1171:A:C2	2.62	0.87
3:AB:58:LEU:HD12	3:AB:61:ARG:HH12	1.40	0.87
18:B3:1690:C:C6	33:BN:129:TYR:HD1	1.88	0.87
1:AA:1256:A:N6	1:AA:1278:U:H1'	1.89	0.87
1:AA:1123:A:O2'	10:AJ:56:VAL:HA	1.73	0.87
19:B4:5:G:N2	24:BE:71:GLY:C	2.20	0.87
18:B3:1316:G:OP2	42:B0:102:ALA:CB	2.23	0.87
18:B3:672:G:C5'	23:BD:214:ILE:HG21	2.01	0.87
18:B3:745:G:C8	34:BO:90:ASP:OD2	2.27	0.87
1:AA:190(D):U:O2'	16:AQ:109:HIS:CB	2.22	0.87
44:BX:48:ARG:CZ	44:BX:49:LYS:HB3	2.05	0.87
18:B3:2848:G:P	22:BC:173:LYS:CD	2.62	0.87
28:BI:35:ASP:HA	28:BI:88:ARG:HH22	1.40	0.87
18:B3:2136:G:N1	18:B3:2238:A:C6	2.43	0.87
26:BG:112:ALA:H	26:BG:117:GLU:HB2	1.40	0.87
18:B3:1708:C:H6	35:BP:81:LYS:CG	1.81	0.87
18:B3:2165:G:C2'	20:BA:207:LYS:CE	2.52	0.87
39:BT:98:VAL:HG11	39:BT:106:VAL:HG11	1.55	0.87
3:AB:66:ILE:HG23	3:AB:70:GLU:CB	2.04	0.87
5:AD:95:TYR:CB	5:AD:193:GLU:HB3	2.03	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:G:O4'	1:AA:173:U:O2	1.92	0.87
2:AT:140:GLU:CA	2:AT:481:MET:N	2.37	0.87
1:AA:777:A:O2'	11:AK:126:ARG:CA	2.21	0.87
40:BU:101:PRO:HA	40:BU:104:LEU:HD22	1.55	0.87
41:BV:95:LYS:CG	41:BV:122:VAL:HG12	2.05	0.87
9:AI:58:LYS:CD	9:AI:88:LEU:HD13	2.05	0.87
33:BN:13:SER:HB2	33:BN:149:VAL:CB	2.05	0.87
18:B3:1181:A:N3	30:BK:105:GLN:CA	2.28	0.87
18:B3:693:A:C4'	41:BV:59:TYR:HE1	1.83	0.87
1:AA:129(A):G:HO2'	16:AQ:137:ASN:N	1.73	0.87
18:B3:2826:G:O2'	22:BC:123:LYS:C	2.10	0.87
22:BC:281:ILE:HD11	22:BC:321:ILE:HG21	1.55	0.87
18:B3:2283:G:N7	28:BI:106:ALA:HB2	1.90	0.87
29:BJ:70:VAL:HG12	29:BJ:75:ALA:HB2	1.57	0.87
27:BH:43:VAL:HG12	32:BM:126:LEU:C	1.96	0.87
18:B3:1396:C:H1'	35:BP:2:ASN:CB	2.05	0.87
18:B3:81:G:O2'	40:BU:75:ARG:HG2	1.70	0.87
40:BU:82:VAL:HG12	40:BU:83:ASP:H	1.38	0.87
1:AA:1505:G:N3	1:AA:1506:U:H3'	1.90	0.87
29:BJ:133:PRO:HD2	29:BJ:135:ALA:HB3	1.55	0.87
18:B3:1074:G:H4'	42:B0:45:ARG:HH11	1.38	0.86
23:BD:186:LEU:HA	23:BD:199:THR:HA	1.56	0.86
34:BO:40:THR:CG2	34:BO:133:LYS:HB2	2.04	0.86
18:B3:2101:A:C3'	23:BD:66:THR:OG1	2.15	0.86
21:BB:171:GLY:H	47:B9:67:ALA:N	1.73	0.86
18:B3:948:G:O2'	36:BQ:100:LYS:CE	2.19	0.86
25:BF:164:ASP:HB3	25:BF:180:ILE:CG2	2.04	0.86
19:B4:86:G:OP1	25:BF:218:LYS:NZ	2.07	0.86
1:AA:130:A:C8	16:AQ:135:ARG:CB	2.57	0.86
18:B3:72:C:H5''	44:BX:49:LYS:HE2	1.11	0.86
18:B3:2846:C:H5''	22:BC:174:LYS:CE	2.05	0.86
22:BC:213:MET:HB2	22:BC:341:LEU:CD1	2.02	0.86
18:B3:433:C:C5'	31:BL:149:TRP:CE3	2.58	0.86
26:BG:149:LEU:HD21	26:BG:210:LEU:CD1	2.05	0.86
26:BG:159:ILE:HG22	26:BG:161:LEU:H	1.40	0.86
18:B3:1592:G:O2'	35:BP:120:HIS:CE1	2.28	0.86
18:B3:2736:U:H5	35:BP:61:ARG:HH11	1.19	0.86
18:B3:1708:C:H6	35:BP:81:LYS:HG2	1.04	0.86
18:B3:1794:G:O2'	35:BP:96:ARG:CG	2.21	0.86
29:BJ:59:ARG:CD	29:BJ:62:GLU:HA	2.04	0.86
39:BT:106:VAL:HB	39:BT:123:VAL:CG1	2.04	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1672:G:C5'	39:BT:91:LYS:HG2	2.04	0.86
10:AJ:73:GLY:CA	14:AN:25:SER:CB	2.49	0.86
1:AA:860:A:C3'	8:AH:18:LYS:HZ1	1.87	0.86
1:AA:826:C:C5'	8:AH:27:ARG:HH12	1.88	0.86
27:BH:67:ALA:CB	32:BM:127:ARG:HA	2.05	0.86
18:B3:2552:C:O3'	18:B3:2553:A:C5'	2.15	0.86
1:AA:1344:C:H5'	9:AI:136:ARG:H	1.39	0.86
2:AT:738:GLN:HA	18:B3:1199:A:C6	2.09	0.86
1:AA:529:G:N1	12:AL:69:ARG:NH2	2.22	0.86
11:AK:42:THR:HG22	11:AK:52:ASP:HB2	1.55	0.86
1:AA:1286:A:C3'	1:AA:1287:A:H5''	2.03	0.86
18:B3:288:A:H61	18:B3:364:C:H42	1.19	0.86
39:BT:96:LYS:HA	39:BT:96:LYS:HE3	1.55	0.86
1:AA:1309:G:H8	13:AM:92:ILE:CD1	1.89	0.86
1:AA:988:G:H4'	1:AA:1013:G:C3'	1.98	0.86
13:AM:100:THR:HG23	13:AM:105:VAL:CG2	2.05	0.86
7:AG:111:ARG:HH22	9:AI:41:GLU:CB	1.88	0.86
24:BE:95:TRP:HB3	24:BE:99:TYR:HE2	1.39	0.86
18:B3:1428:C:H5''	33:BN:124:GLN:NE2	1.89	0.86
18:B3:672:G:C1'	23:BD:214:ILE:CG2	2.44	0.86
23:BD:214:ILE:HD13	23:BD:214:ILE:H	1.38	0.86
18:B3:111:C:H4'	18:B3:119:A:C6	2.09	0.86
47:B9:45:THR:HB	47:B9:57:SER:HB3	1.57	0.86
47:B9:52:GLY:HA2	47:B9:54:TRP:CZ3	2.11	0.86
47:B9:55:THR:CG2	47:B9:63:VAL:HG23	2.05	0.86
18:B3:1206:C:C5	18:B3:1207:A:N7	2.37	0.86
22:BC:261:TRP:CB	22:BC:263:VAL:HG22	2.04	0.86
22:BC:360:THR:N	38:BS:14:TYR:CG	2.43	0.86
31:BL:25:ARG:CD	31:BL:26:VAL:H	1.88	0.86
18:B3:1566:C:OP1	35:BP:59:LYS:HG2	1.74	0.86
18:B3:2737:C:N4	35:BP:61:ARG:NE	2.23	0.86
29:BJ:95:PHE:HA	29:BJ:101:PHE:CD2	2.09	0.86
3:AB:81:GLY:HA2	3:AB:169:ILE:CD1	2.04	0.86
5:AD:99:LEU:HB2	5:AD:103:ASP:O	1.75	0.86
1:AA:64:G:N3	1:AA:97:G:C6	2.37	0.86
2:AT:536:LEU:HD13	18:B3:2698:G:HO2'	1.38	0.86
32:BM:58:ARG:HD2	32:BM:60:ALA:CB	2.04	0.86
35:BP:51:LYS:HA	35:BP:51:LYS:HE3	1.57	0.86
18:B3:2436:U:H5''	46:BZ:70:ARG:NH1	1.89	0.86
1:AA:292:G:O2'	1:AA:608:A:C5	2.28	0.86
6:AE:113:GLY:HA3	6:AE:130:ILE:HG23	1.55	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:79:ALA:HB3	4:AC:80:PRO:HD3	1.57	0.86
1:AA:1305:G:N2	13:AM:40:ARG:NH1	2.22	0.86
1:AA:1316:G:N2	17:AS:49:MET:CE	2.38	0.86
9:AI:100:SER:HA	9:AI:116:LEU:CD2	2.04	0.86
18:B3:1316:G:H5''	42:B0:101:SER:HB3	0.91	0.86
34:BO:81:VAL:CG2	34:BO:140:LEU:HD12	2.03	0.86
18:B3:2669:U:H4'	22:BC:130:THR:HA	1.57	0.86
18:B3:1809:G:C4'	18:B3:2731:G:H5'	2.05	0.86
18:B3:1714:C:H5'	18:B3:2745:C:C1'	2.05	0.86
41:BV:39:HIS:HB3	41:BV:42:ILE:HD12	1.55	0.86
5:AD:99:LEU:HD23	5:AD:104:PHE:N	1.90	0.86
18:B3:1396:C:C1'	35:BP:2:ASN:HB2	2.05	0.86
43:BW:7:VAL:H	43:BW:74:ILE:HG22	1.39	0.86
21:BB:201:VAL:HG11	21:BB:216:GLN:HA	1.57	0.86
1:AA:643:C:O2'	8:AH:123:LYS:NZ	2.07	0.86
18:B3:620:A:OP1	42:B0:41:VAL:CG1	2.21	0.86
1:AA:1162:C:C2	9:AI:108:PHE:CE2	2.63	0.86
19:B4:30:C:C2	24:BE:57:ASN:OD1	2.24	0.86
18:B3:1370:G:C4'	33:BN:62:PHE:CE1	2.49	0.86
18:B3:1335:C:OP1	42:B0:100:ILE:HG21	1.75	0.86
42:B0:87:MET:CB	42:B0:117:ILE:HA	2.05	0.86
18:B3:771:G:OP1	31:BL:76:LYS:CD	2.24	0.86
18:B3:772:G:N3	45:BY:46:TYR:CZ	2.43	0.86
18:B3:1874:U:P	21:BB:127:ARG:HG2	2.11	0.86
19:B4:99:U:C5'	25:BF:222:PHE:HE1	1.85	0.86
18:B3:92:G:H5''	44:BX:43:LYS:CE	2.02	0.86
28:BI:48:LEU:HD23	28:BI:49:CYS:N	1.90	0.86
18:B3:1806:G:N2	18:B3:2883:A:C3'	1.81	0.86
18:B3:2737:C:C5	35:BP:61:ARG:CZ	2.57	0.86
35:BP:94:TRP:NE1	35:BP:98:LEU:HD13	1.90	0.86
18:B3:2214:A:O2'	20:BA:106:LYS:HB3	1.74	0.86
10:AJ:70:THR:HG1	14:AN:36:ASN:HB3	1.09	0.86
1:AA:523:A:C2	12:AL:116:ASP:N	2.37	0.86
18:B3:99:A:C6	40:BU:24:SER:O	2.29	0.86
1:AA:14:U:H5'	1:AA:915:A:OP2	1.75	0.86
1:AA:1220:G:H3'	17:AS:78:THR:O	1.75	0.86
1:AA:1297:C:H6	13:AM:53:ASP:OD2	1.53	0.86
1:AA:1320:C:H1'	17:AS:119:PHE:CD1	2.10	0.86
17:AS:56:PHE:HB2	17:AS:80:MET:HG3	1.57	0.86
18:B3:843:A:H5''	33:BN:130:ARG:CG	2.06	0.86
18:B3:1074:G:C5'	42:B0:45:ARG:HD2	2.06	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:111:LEU:HB3	33:BN:150:THR:CG2	2.06	0.86
18:B3:678:G:H5'	23:BD:256:LYS:CB	2.00	0.86
34:BO:64:VAL:HG22	34:BO:89:ASP:HA	1.56	0.86
18:B3:1861:C:O3'	21:BB:7:GLN:HB2	1.76	0.86
25:BF:85:VAL:CG2	25:BF:133:VAL:HG21	2.06	0.86
1:AA:130:A:N7	16:AQ:135:ARG:CA	2.37	0.86
18:B3:2822:C:H4'	22:BC:132:TYR:O	1.75	0.86
22:BC:56:VAL:HG22	37:BR:89:ASP:C	1.96	0.86
28:BI:140:THR:HG22	28:BI:141:LYS:H	1.38	0.86
26:BG:157:ASP:HB2	26:BG:159:ILE:CG1	2.05	0.86
5:AD:157:ASP:HB3	5:AD:160:PRO:CG	2.06	0.86
3:AB:141:PRO:CD	8:AH:68:LEU:CD2	2.43	0.86
18:B3:2557:U:O2	18:B3:2800:A:C8	2.28	0.86
27:BH:7:GLU:CB	27:BH:56:ALA:HB2	2.04	0.86
1:AA:144:G:O6	1:AA:199:G:H5'	1.75	0.86
1:AA:1343:G:C5'	9:AI:137:PHE:C	2.43	0.86
1:AA:865:A:OP1	1:AA:1078:U:H1'	0.94	0.86
1:AA:436:C:O2	1:AA:496:A:C2'	2.18	0.86
18:B3:1137:G:C4	18:B3:2785:C:C5	2.46	0.86
18:B3:390:G:OP1	46:BZ:47:SER:HB3	1.75	0.86
18:B3:499:G:H4'	33:BN:19:SER:CB	2.06	0.86
10:AJ:49:ASN:ND2	10:AJ:93:LEU:HD11	1.89	0.86
42:B0:100:ILE:H	42:B0:100:ILE:HD13	1.40	0.86
34:BO:87:VAL:HG13	34:BO:106:PHE:HB3	1.57	0.86
18:B3:111:C:C3'	18:B3:119:A:N6	2.37	0.86
45:BY:17:LEU:HA	45:BY:24:ARG:CA	2.06	0.86
21:BB:177:PRO:HG3	47:B9:25:VAL:CG2	2.05	0.86
19:B4:86:G:C5	25:BF:220:LYS:HG3	2.11	0.86
18:B3:2719:A:H8	38:BS:17:ARG:NH2	1.70	0.86
22:BC:260:MET:HE2	32:BM:66:THR:CG2	2.05	0.86
18:B3:2817:G:O5'	22:BC:96:ARG:CZ	2.08	0.86
28:BI:140:THR:HG22	28:BI:141:LYS:HD2	1.58	0.86
28:BI:31:ILE:CD1	28:BI:65:LEU:HG	2.05	0.86
28:BI:72:ALA:HA	28:BI:154:ARG:CZ	2.06	0.86
26:BG:107:ARG:HG3	26:BG:108:LEU:HD22	1.55	0.86
31:BL:168:LYS:CE	31:BL:169:LYS:HG2	2.06	0.86
18:B3:919:U:O3'	41:BV:38:HIS:HB2	1.76	0.86
18:B3:921:G:C5'	41:BV:42:ILE:H	1.82	0.86
18:B3:2348:C:H5'	29:BJ:68:VAL:O	1.76	0.86
29:BJ:71:ARG:NH1	29:BJ:75:ALA:HB3	1.91	0.86
29:BJ:83:LEU:HD12	29:BJ:166:TYR:HE1	1.41	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:20:CYS:CB	14:AN:29:LEU:HG	2.06	0.86
5:AD:179:ARG:HD2	5:AD:182:GLU:CG	2.05	0.86
32:BM:133:LYS:H	32:BM:133:LYS:HD3	1.40	0.86
18:B3:1381:A:C2	43:BW:25:LYS:O	2.28	0.86
46:BZ:73:CYS:N	46:BZ:79:ARG:HG3	1.91	0.86
18:B3:81:G:H5'	40:BU:74:TYR:CA	2.05	0.86
5:AD:42:ILE:HG22	5:AD:48:GLN:HB2	1.57	0.86
1:AA:924:C:N1	1:AA:1398:A:C2	2.43	0.86
17:AS:109:PRO:HA	17:AS:112:LEU:CD1	2.06	0.86
9:AI:47:VAL:HG13	9:AI:81:ARG:N	1.90	0.86
33:BN:111:LEU:HD23	33:BN:150:THR:HG21	1.58	0.86
45:BY:27:HIS:HB2	45:BY:30:LYS:CG	2.05	0.86
18:B3:1874:U:C5'	21:BB:127:ARG:CG	2.54	0.86
18:B3:2547:C:H6	22:BC:235:LYS:HE3	1.38	0.86
18:B3:2652:U:O2'	22:BC:257:ALA:HB2	1.74	0.86
18:B3:2819:C:H2'	22:BC:101:LEU:H	1.39	0.86
18:B3:2668:G:H4'	22:BC:128:ALA:HB2	1.57	0.86
18:B3:1736:A:OP1	22:BC:243:ARG:HB2	1.76	0.86
22:BC:358:ILE:C	38:BS:15:PRO:HB2	1.90	0.86
37:BR:40:LYS:CG	37:BR:57:MET:HB3	2.06	0.86
31:BL:67:ARG:HB2	31:BL:67:ARG:HH11	1.39	0.86
18:B3:1597:A:O2'	35:BP:94:TRP:CH2	2.29	0.86
18:B3:2164:G:OP1	20:BA:162:VAL:HG11	1.74	0.86
1:AA:449:C:O4'	5:AD:131:GLN:C	2.12	0.86
18:B3:1225:C:H5''	18:B3:1248:A:H2	1.40	0.86
18:B3:1381:A:N6	43:BW:24:PHE:O	2.08	0.86
18:B3:903:U:N3	41:BV:15:SER:CA	2.30	0.86
1:AA:405:U:H3	5:AD:26:ALA:C	1.78	0.86
32:BM:26:LEU:CG	32:BM:101:LEU:HD12	2.04	0.86
22:BC:295:THR:HG22	22:BC:296:SER:H	1.39	0.86
28:BI:32:ARG:HG2	28:BI:33:ILE:CD1	2.04	0.86
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.56	0.86
1:AA:950:U:C5	13:AM:140:THR:HB	2.11	0.86
17:AS:124:THR:HG22	17:AS:126:VAL:H	1.41	0.86
18:B3:638:C:H5''	42:B0:27:ARG:CB	2.06	0.86
9:AI:46:LYS:HB3	9:AI:49:GLU:HG2	1.58	0.86
10:AJ:38:SER:HB2	10:AJ:91:ILE:CD1	2.06	0.86
18:B3:2388:C:O5'	36:BQ:88:ARG:CZ	2.00	0.86
33:BN:88:LYS:HE3	33:BN:89:PHE:HD2	1.41	0.86
18:B3:449:A:H61	18:B3:1349:G:H3'	1.40	0.86
18:B3:2099:G:H3'	23:BD:68:ARG:CZ	2.04	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1167:G:H1'	30:BK:111:GLU:N	1.91	0.86
18:B3:1899:C:C1'	21:BB:223:THR:OG1	2.24	0.86
21:BB:195:TRP:CD2	21:BB:196:PRO:HA	2.11	0.86
21:BB:82:HIS:CD2	47:B9:62:THR:C	2.49	0.86
25:BF:167:ILE:CB	25:BF:179:SER:HB3	2.03	0.86
19:B4:87:U:C1'	25:BF:217:ARG:NH2	2.37	0.86
18:B3:1206:C:H2'	18:B3:1207:A:N9	1.89	0.86
26:BG:141:LEU:HD13	26:BG:147:ALA:CB	2.06	0.86
18:B3:1706:G:OP1	35:BP:65:HIS:ND1	2.09	0.86
18:B3:2165:G:O3'	20:BA:33:GLU:HB3	1.75	0.86
8:AH:101:VAL:CG1	8:AH:112:HIS:HB3	2.05	0.86
1:AA:554:C:N1	12:AL:45:GLY:CA	2.34	0.86
1:AA:551:U:H4'	12:AL:107:PHE:CD2	2.11	0.86
1:AA:1101:A:H61	3:AB:102:THR:CG2	1.87	0.86
18:B3:2382:A:N9	46:BZ:10:TYR:HE2	1.73	0.86
18:B3:2435:U:H4'	46:BZ:27:TYR:HE2	1.40	0.86
40:BU:57:LEU:HD11	40:BU:105:VAL:CG2	2.06	0.86
22:BC:166:ARG:HD2	22:BC:167:LYS:H	1.41	0.86
1:AA:1301:U:O2'	13:AM:29:VAL:CG2	2.21	0.86
18:B3:537:G:O4'	42:B0:21:HIS:NE2	2.09	0.86
18:B3:540:A:H5''	42:B0:18:LYS:N	1.91	0.86
1:AA:1179:A:P	9:AI:116:LEU:CD2	2.64	0.86
1:AA:318:G:C1'	1:AA:1468:A:O4'	2.21	0.86
33:BN:17:ARG:CD	33:BN:93:LEU:HB2	2.06	0.86
18:B3:671:A:H5''	23:BD:212:ASN:C	1.96	0.86
30:BK:80:LEU:HB3	30:BK:112:ILE:HD12	1.54	0.86
21:BB:116:GLU:OE1	21:BB:162:ARG:HG3	1.76	0.86
21:BB:97:VAL:HA	21:BB:165:ILE:CG1	2.06	0.86
25:BF:177:ILE:HG23	25:BF:182:ASP:HB3	1.58	0.86
19:B4:98:C:C2'	25:BF:222:PHE:CE1	2.51	0.86
1:AA:190(E):U:N3	16:AQ:131:SER:N	2.21	0.86
18:B3:2668:G:O3'	22:BC:128:ALA:HB3	1.74	0.86
28:BI:65:LEU:HD11	28:BI:69:ARG:HB3	1.57	0.86
32:BM:42:ILE:HD11	32:BM:136:THR:HG21	1.57	0.86
43:BW:27:ARG:HB3	43:BW:66:VAL:CG2	2.06	0.86
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.74	0.86
18:B3:2663:U:C1'	18:B3:2816:A:N7	2.26	0.86
24:BE:199:ILE:HG22	24:BE:223:PHE:HD2	1.39	0.86
1:AA:1298:C:C3'	13:AM:57:ARG:HH22	1.89	0.86
1:AA:1179:A:OP1	9:AI:116:LEU:CG	2.24	0.86
7:AG:111:ARG:HH22	9:AI:41:GLU:HB2	1.39	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1315:G:N2	42:B0:107:VAL:HB	1.91	0.86
18:B3:1344:G:N3	23:BD:187:ARG:CZ	2.04	0.86
47:B9:56:CYS:SG	47:B9:60:LYS:HA	2.16	0.86
18:B3:1875:A:H5'	21:BB:127:ARG:NH2	1.87	0.86
19:B4:85:A:H2'	25:BF:219:PHE:O	1.76	0.86
19:B4:86:G:N3	25:BF:220:LYS:HG3	1.64	0.86
18:B3:2709:G:C8	37:BR:7:GLN:HG3	2.11	0.86
18:B3:2165:G:H1'	20:BA:207:LYS:CE	2.05	0.86
10:AJ:70:THR:CB	14:AN:41:CYS:N	2.39	0.86
1:AA:99:C:C1'	1:AA:101:A:N6	2.38	0.86
2:AT:108:HIS:CA	2:AT:536:LEU:HD21	2.05	0.86
18:B3:2853:U:C5'	22:BC:170:LEU:HG	2.06	0.86
31:BL:177:HIS:HD2	31:BL:178:LYS:HG2	1.41	0.86
31:BL:175:LYS:HE3	31:BL:176:GLY:H	1.40	0.86
1:AA:989:C:H1'	1:AA:1015:A:C2'	2.05	0.85
1:AA:1309:G:C8	13:AM:92:ILE:HG13	2.10	0.85
19:B4:36:C:C6	24:BE:181:PRO:HA	1.97	0.85
24:BE:211:LEU:HD23	24:BE:212:ALA:N	1.91	0.85
18:B3:1335:C:H5'	42:B0:96:ILE:O	1.76	0.85
23:BD:54:LYS:HG3	23:BD:57:HIS:HB2	1.57	0.85
18:B3:1099:G:OP1	25:BF:217:ARG:NH2	2.09	0.85
18:B3:944:G:H5''	25:BF:97:LYS:HG2	1.58	0.85
1:AA:190(D):U:O2	16:AQ:111:SER:N	2.09	0.85
18:B3:2310:G:O2'	28:BI:119:TRP:NE1	2.07	0.85
18:B3:2819:C:H5'	22:BC:99:ARG:NH2	1.91	0.85
18:B3:2820:A:P	22:BC:102:THR:N	2.41	0.85
22:BC:165:ILE:CG2	22:BC:168:THR:HG22	2.05	0.85
18:B3:2670:G:N2	22:BC:91:TYR:OH	2.08	0.85
18:B3:2520:G:P	28:BI:160:PRO:HG3	2.15	0.85
18:B3:2136:G:C2	18:B3:2238:A:N6	2.43	0.85
26:BG:163:VAL:CG1	31:BL:5:TYR:HE2	1.87	0.85
29:BJ:70:VAL:HB	29:BJ:71:ARG:NH1	1.91	0.85
39:BT:66:ILE:N	39:BT:83:PHE:HB3	1.90	0.85
1:AA:33:A:C2	12:AL:47:SER:OG	2.28	0.85
1:AA:69:G:O2'	1:AA:171:A:C6	2.28	0.85
41:BV:20:ARG:HB3	41:BV:23:LYS:CB	2.06	0.85
2:AT:140:GLU:CB	2:AT:481:MET:CA	2.54	0.85
2:AT:112:SER:HB2	2:AT:537:HIS:CG	2.09	0.85
18:B3:2561:C:C5'	18:B3:2777:G:O3'	2.24	0.85
27:BH:63:LYS:HE2	32:BM:129:LYS:CD	2.06	0.85
1:AA:755:G:P	15:AO:123:ARG:CD	2.60	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:56:PRO:HD3	11:AK:88:THR:HG21	1.58	0.85
18:B3:1090:A:H5'	42:B0:55:ILE:CD1	2.05	0.85
42:B0:66:LEU:CD2	42:B0:70:GLY:HA2	2.06	0.85
40:BU:115:ARG:HD2	40:BU:118:LEU:HA	1.58	0.85
18:B3:540:A:OP1	42:B0:18:LYS:HB2	1.75	0.85
9:AI:47:VAL:HG23	9:AI:77:VAL:HG13	1.58	0.85
21:BB:155:LYS:HA	21:BB:155:LYS:HE2	1.58	0.85
18:B3:1098:A:P	25:BF:216:PRO:CB	2.61	0.85
25:BF:167:ILE:HD13	25:BF:183:LEU:CD1	2.06	0.85
18:B3:1132:A:H2'	18:B3:2521:A:C4'	1.34	0.85
22:BC:125:LYS:HD2	22:BC:126:LYS:N	1.91	0.85
18:B3:2547:C:C6	22:BC:235:LYS:HE3	2.11	0.85
28:BI:134:ILE:HD13	28:BI:134:ILE:H	1.40	0.85
26:BG:210:LEU:HD13	26:BG:211:ALA:N	1.90	0.85
18:B3:402:U:C1'	31:BL:92:LYS:HG3	2.06	0.85
18:B3:401:C:H5'	31:BL:94:GLN:O	1.73	0.85
3:AB:75:ILE:CG2	3:AB:122:VAL:HG23	2.06	0.85
32:BM:13:HIS:CD2	32:BM:18:LEU:HB2	2.12	0.85
18:B3:905:C:H5'	41:BV:11:ARG:HE	1.06	0.85
20:BA:68:PHE:CE2	20:BA:116:LEU:HD13	2.10	0.85
8:AH:80:VAL:HG11	8:AH:124:ILE:CD1	2.06	0.85
32:BM:33:VAL:HG12	32:BM:102:LYS:HB2	1.58	0.85
18:B3:638:C:C5'	42:B0:27:ARG:HB3	2.06	0.85
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.39	0.85
9:AI:28:ILE:HD13	9:AI:48:TYR:CE2	2.10	0.85
18:B3:27:U:O2	18:B3:1319:G:C4	2.28	0.85
18:B3:449:A:H2	18:B3:1348:A:C6	1.89	0.85
18:B3:1349:G:OP1	23:BD:36:THR:C	2.14	0.85
18:B3:1163:G:C2	30:BK:52:GLU:OE1	2.29	0.85
18:B3:2065:C:C5	22:BC:255:HIS:CE1	2.64	0.85
18:B3:2712:G:O3'	37:BR:44:SER:CA	2.25	0.85
39:BT:106:VAL:HB	39:BT:123:VAL:HG11	1.58	0.85
1:AA:620:C:H5'	5:AD:129:ILE:CG1	2.05	0.85
2:AT:113:SER:OG	2:AT:515:ASP:OD1	1.95	0.85
32:BM:95:LYS:HA	32:BM:98:LEU:HD23	1.58	0.85
20:BA:29:LEU:HD22	20:BA:172:VAL:CG1	2.06	0.85
13:AM:129:TRP:CZ3	17:AS:121:ILE:HG12	2.11	0.85
18:B3:882:A:H4'	45:BY:2:LYS:CA	2.05	0.85
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.42	0.85
9:AI:47:VAL:HG11	9:AI:80:ILE:CG2	2.06	0.85
18:B3:1019:C:C4'	36:BQ:61:THR:CG2	2.54	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:49:TYR:CE2	24:BE:144:VAL:HG13	2.11	0.85
24:BE:35:ARG:HA	24:BE:35:ARG:NH1	1.91	0.85
23:BD:215:VAL:CG1	23:BD:218:LEU:HB2	2.07	0.85
21:BB:103:LEU:HD11	21:BB:135:ILE:CD1	2.06	0.85
21:BB:161:ALA:HB3	21:BB:162:ARG:HH21	1.40	0.85
18:B3:1067:A:H4'	25:BF:94:ILE:HG22	1.58	0.85
22:BC:238:PRO:HB2	22:BC:240:LYS:CE	2.06	0.85
18:B3:2837:U:H6	22:BC:333:ARG:CD	1.85	0.85
28:BI:52:LEU:CD2	28:BI:134:ILE:HB	2.05	0.85
31:BL:13:LYS:HE3	31:BL:18:LEU:HG	1.58	0.85
18:B3:1714:C:H1'	18:B3:2744:G:H21	1.40	0.85
35:BP:100:VAL:CG2	35:BP:101:LEU:HD22	2.06	0.85
18:B3:1673:U:O3'	39:BT:94:ILE:CD1	2.25	0.85
10:AJ:69:LYS:HB2	14:AN:39:ARG:NE	1.84	0.85
10:AJ:71:PRO:CD	14:AN:42:PHE:CB	2.48	0.85
10:AJ:78:THR:HG21	14:AN:39:ARG:NE	1.89	0.85
12:AL:107:PHE:O	12:AL:111:GLY:HA2	1.76	0.85
1:AA:32:A:N1	12:AL:47:SER:HB2	1.90	0.85
1:AA:364:A:P	12:AL:50:LYS:HE2	2.16	0.85
2:AT:140:GLU:CB	2:AT:481:MET:CB	2.49	0.85
2:AT:533:THR:H	2:AT:537:HIS:HD2	1.22	0.85
32:BM:128:LEU:HB3	32:BM:131:GLY:HA3	1.57	0.85
35:BP:40:ILE:HA	35:BP:43:LEU:CD2	2.06	0.85
43:BW:59:TRP:CE3	43:BW:59:TRP:HA	2.08	0.85
43:BW:9:ARG:NH2	43:BW:74:ILE:HB	1.92	0.85
18:B3:78:G:HO2'	40:BU:27:ARG:NH2	1.74	0.85
10:AJ:62:VAL:HG22	10:AJ:85:ARG:HB3	1.57	0.85
22:BC:211:ASN:HB2	22:BC:349:ALA:CB	2.03	0.85
1:AA:838:G:H2'	1:AA:839:U:H5''	1.57	0.85
3:AB:55:LYS:HE3	3:AB:55:LYS:HA	1.55	0.85
18:B3:539:G:N3	42:B0:50:ILE:HD13	1.90	0.85
24:BE:100:ALA:O	24:BE:104:LEU:HG	1.77	0.85
24:BE:78:ALA:HB2	24:BE:105:ILE:HB	1.57	0.85
18:B3:1352:A:O4'	23:BD:102:THR:HG21	1.75	0.85
18:B3:1310:U:C5	23:BD:202:ARG:C	2.50	0.85
23:BD:149:LEU:HD23	23:BD:248:ILE:HB	1.55	0.85
23:BD:256:LYS:CG	23:BD:259:GLN:HB3	2.06	0.85
18:B3:121:U:N3	45:BY:20:ARG:NH1	2.22	0.85
30:BK:113:ALA:HB1	30:BK:128:VAL:CG2	2.06	0.85
19:B4:85:A:C1'	25:BF:228:PHE:CE2	2.51	0.85
18:B3:1085:C:H5''	25:BF:89:LYS:NZ	1.90	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:93:C:C5'	44:BX:42:PRO:O	2.24	0.85
26:BG:141:LEU:HD12	26:BG:142:ILE:N	1.91	0.85
31:BL:62:ARG:HH21	31:BL:128:TYR:HB3	1.41	0.85
18:B3:1806:G:N3	18:B3:2884:G:N9	2.22	0.85
38:BS:47:ARG:HB2	38:BS:54:LEU:CD2	2.06	0.85
18:B3:2333:G:C2'	29:BJ:114:LYS:HG2	2.06	0.85
20:BA:57:ASN:H	20:BA:155:ILE:HG23	1.42	0.85
1:AA:560:U:O4'	1:AA:563:A:O5'	1.95	0.85
1:AA:6:G:C1'	1:AA:298:A:C2'	2.51	0.85
5:AD:99:LEU:HD12	5:AD:106:GLU:CA	2.06	0.85
27:BH:20:ILE:HG23	27:BH:47:LYS:CE	2.05	0.85
27:BH:62:ARG:O	32:BM:129:LYS:C	2.13	0.85
18:B3:1398:G:O4'	35:BP:25:PRO:HG3	1.75	0.85
46:BZ:75:LYS:H	46:BZ:77:LYS:HD2	1.42	0.85
18:B3:20:G:O2'	33:BN:5:ALA:C	2.14	0.85
18:B3:2320:U:O4	46:BZ:4:PRO:HB3	1.75	0.85
1:AA:250:A:H4'	1:AA:251:G:O5'	1.74	0.85
1:AA:979:C:O2'	17:AS:58:LYS:CE	2.24	0.85
1:AA:1291:G:H5''	7:AG:111:ARG:CZ	2.05	0.85
19:B4:7:G:N7	24:BE:22:ARG:HD3	1.91	0.85
19:B4:50:G:N1	24:BE:57:ASN:OD1	2.07	0.85
18:B3:517:U:C2'	18:B3:1319:G:N2	2.39	0.85
18:B3:1343:C:P	23:BD:192:LYS:HB2	2.17	0.85
18:B3:677:C:C1'	23:BD:230:ALA:HA	2.02	0.85
18:B3:120:A:C8	45:BY:26:PHE:CE1	2.64	0.85
47:B9:28:LEU:HD13	47:B9:29:GLU:H	1.41	0.85
47:B9:35:ARG:HD3	47:B9:44:LYS:CG	2.06	0.85
1:AA:129:U:C4'	16:AQ:127:CYS:O	2.23	0.85
18:B3:2717:C:H2'	18:B3:2718:C:H5''	1.57	0.85
22:BC:87:GLY:HA2	22:BC:104:VAL:CG2	2.07	0.85
18:B3:263:U:O2	31:BL:40:ARG:HD2	1.76	0.85
18:B3:1805:G:N2	18:B3:2875:A:H61	1.42	0.85
29:BJ:20:ILE:HG13	29:BJ:21:SER:H	1.42	0.85
18:B3:124:C:H5	39:BT:88:LYS:CG	1.88	0.85
3:AB:141:PRO:CG	8:AH:68:LEU:CD2	2.54	0.85
27:BH:117:PHE:CD2	27:BH:120:ASP:HB2	2.11	0.85
27:BH:27:VAL:HG12	27:BH:28:VAL:H	1.39	0.85
27:BH:40:HIS:CE1	32:BM:127:ARG:HH11	1.93	0.85
35:BP:22:TRP:NE1	35:BP:49:ILE:HA	1.90	0.85
1:AA:1375:A:C6	7:AG:76:TYR:CZ	2.64	0.85
2:AT:749:LYS:HE2	18:B3:2508:C:C5	1.98	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:137:VAL:HG22	4:AC:183:ILE:CD1	2.06	0.85
1:AA:1309:G:H4'	13:AM:112:ASP:HB3	1.58	0.85
18:B3:541:C:C6	42:B0:15:LYS:HB2	2.12	0.85
18:B3:2388:C:OP1	36:BQ:88:ARG:NE	2.05	0.85
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.11	0.85
18:B3:745:G:N2	41:BV:76:LYS:NZ	2.24	0.85
18:B3:1309:U:OP1	23:BD:223:GLY:O	1.94	0.85
18:B3:677:C:O2	23:BD:230:ALA:HB1	1.77	0.85
18:B3:1348:A:H5''	23:BD:241:ALA:HB2	1.51	0.85
23:BD:245:ARG:HD3	23:BD:246:PHE:N	1.91	0.85
34:BO:62:VAL:HG21	34:BO:87:VAL:CG2	2.05	0.85
21:BB:112:VAL:HG13	21:BB:164:VAL:O	1.77	0.85
22:BC:84:VAL:HG12	22:BC:201:THR:CG2	2.07	0.85
31:BL:173:ILE:HD13	31:BL:188:LYS:CD	2.06	0.85
29:BJ:136:ARG:NH1	29:BJ:137:VAL:HG22	1.91	0.85
1:AA:66:G:C4'	1:AA:173:U:C1'	2.44	0.85
18:B3:1117:A:N3	18:B3:1226:G:O3'	1.99	0.85
27:BH:151:VAL:HA	27:BH:154:VAL:HG22	1.58	0.85
27:BH:10:ILE:HD12	27:BH:52:LEU:CD2	2.07	0.85
18:B3:77:G:N2	40:BU:25:SER:HB2	1.91	0.85
41:BV:97:THR:HG21	41:BV:124:VAL:CG2	2.07	0.85
1:AA:1418:A:C2	18:B3:1989:G:N2	2.44	0.85
18:B3:195:C:H5'	31:BL:178:LYS:HB3	0.87	0.85
4:AC:171:THR:HG22	4:AC:184:LYS:CD	2.07	0.85
20:BA:53:LEU:CD1	20:BA:186:SER:HA	2.07	0.85
37:BR:109:MET:SD	37:BR:129:VAL:HA	2.16	0.85
1:AA:1226:C:N1	17:AS:124:THR:O	2.10	0.85
9:AI:33:SER:CB	9:AI:37:LEU:HD23	2.07	0.85
1:AA:1151:A:C6	10:AJ:57:ARG:NH2	2.44	0.85
18:B3:2087:C:H4'	33:BN:78:THR:HG21	1.08	0.85
18:B3:671:A:H5''	23:BD:212:ASN:CA	2.04	0.85
18:B3:1350:U:C4	23:BD:46:ARG:NH2	2.32	0.85
18:B3:1360:C:OP2	23:BD:90:GLY:C	2.11	0.85
18:B3:1653:A:C8	21:BB:186:HIS:CD2	2.64	0.85
21:BB:116:GLU:HA	21:BB:123:GLY:HA2	1.58	0.85
1:AA:129(A):G:C2'	16:AQ:125:GLY:O	2.24	0.85
1:AA:254:G:H4'	16:AQ:79:MET:HE2	1.50	0.85
18:B3:2072:G:N2	18:B3:2531:U:O2	2.09	0.85
22:BC:101:LEU:HD13	22:BC:145:ARG:NH1	1.91	0.85
18:B3:206:G:H5'	31:BL:186:ARG:HE	1.42	0.85
26:BG:203:ARG:HD3	26:BG:210:LEU:CD1	2.04	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:114:VAL:HG23	31:BL:132:ILE:O	1.75	0.85
18:B3:1705:C:C5'	35:BP:62:THR:CG2	2.55	0.85
18:B3:2347:C:C2	29:BJ:19:ASN:CB	2.56	0.85
18:B3:2165:G:C1'	20:BA:207:LYS:CE	2.54	0.85
20:BA:16:LEU:CD1	20:BA:207:LYS:HA	2.06	0.85
10:AJ:69:LYS:HB3	14:AN:39:ARG:CZ	2.01	0.85
1:AA:59:A:C4'	1:AA:388:G:C8	2.59	0.85
2:AT:137:VAL:C	2:AT:481:MET:SD	2.55	0.85
18:B3:2565:C:N4	27:BH:171:ASP:HB2	1.91	0.85
27:BH:170:LYS:HE2	27:BH:175:PHE:CD1	2.12	0.85
27:BH:76:ASP:H	27:BH:78:MET:HE3	1.41	0.85
18:B3:1382:G:O2'	43:BW:26:LYS:HD2	1.77	0.85
43:BW:13:ILE:HD11	43:BW:68:TYR:HA	1.55	0.85
1:AA:21:G:C1'	1:AA:885:G:C5'	2.53	0.85
41:BV:120:VAL:CG1	41:BV:122:VAL:HG13	2.07	0.85
6:AE:140:ARG:O	6:AE:148:GLY:HA3	1.77	0.85
1:AA:1224:G:C4'	13:AM:139:LYS:HB2	2.07	0.85
1:AA:1303:C:N4	13:AM:40:ARG:HE	1.73	0.85
24:BE:55:PHE:CE2	24:BE:158:ARG:HB2	2.11	0.85
24:BE:65:ILE:HG13	24:BE:75:LEU:CD2	2.05	0.85
24:BE:83:LEU:HG	24:BE:104:LEU:CD1	2.07	0.85
21:BB:61:VAL:HB	21:BB:71:ARG:HH22	1.42	0.85
21:BB:83:THR:OG1	47:B9:62:THR:HG23	1.75	0.85
19:B4:97:U:C2	25:BF:220:LYS:HD2	1.95	0.85
18:B3:2489:G:C3'	18:B3:2490:A:N7	2.39	0.85
22:BC:173:LYS:HE3	22:BC:173:LYS:N	1.92	0.85
18:B3:2671:U:P	22:BC:178:ALA:HB2	2.17	0.85
22:BC:49:LYS:HE3	22:BC:332:LYS:HA	1.58	0.85
28:BI:49:CYS:HA	28:BI:139:ARG:HG3	1.59	0.85
22:BC:71:VAL:HG13	37:BR:87:ARG:NH1	1.84	0.85
18:B3:401:C:C4'	31:BL:94:GLN:HA	2.07	0.85
18:B3:2349:G:C4'	29:BJ:15:LYS:HZ3	1.89	0.85
18:B3:1673:U:C5'	39:BT:109:VAL:HG13	2.07	0.85
18:B3:1244:U:OP1	32:BM:14:LEU:HD13	1.72	0.85
35:BP:10:ALA:HA	35:BP:41:ARG:NH2	1.92	0.85
1:AA:293:G:O2'	1:AA:609:A:H2	1.59	0.85
5:AD:42:ILE:CG2	5:AD:48:GLN:HB2	2.06	0.85
18:B3:269:G:H5''	18:B3:274:G:C1'	2.06	0.85
1:AA:1305:G:HO2'	1:AA:1306:A:H8	0.86	0.85
1:AA:987:G:N3	1:AA:1014:A:H1'	1.90	0.85
42:B0:22:SER:HA	42:B0:28:VAL:HG21	1.59	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:118:C:C2'	24:BE:71:GLY:HA3	2.04	0.85
18:B3:2053:G:C5'	33:BN:140:SER:CA	2.54	0.85
21:BB:176:LYS:HB2	47:B9:24:GLN:O	1.76	0.85
1:AA:190(E):U:P	16:AQ:109:HIS:HB3	2.17	0.85
18:B3:2310:G:C2'	28:BI:119:TRP:HZ2	1.89	0.85
28:BI:101:LYS:HD2	28:BI:103:LEU:CD2	2.07	0.85
37:BR:54:LEU:HD21	37:BR:81:GLN:CB	2.06	0.85
18:B3:2345:A:H5'	29:BJ:48:LYS:CD	2.05	0.85
18:B3:2347:C:H5'	29:BJ:66:VAL:O	1.76	0.85
10:AJ:71:PRO:N	14:AN:38:CYS:O	1.88	0.85
18:B3:2580:G:H5''	18:B3:2680:A:N6	1.92	0.85
32:BM:72:PHE:HB2	32:BM:78:ILE:HD12	1.58	0.85
40:BU:111:LEU:HB3	40:BU:116:LYS:HG3	1.57	0.85
1:AA:1343:G:H5'	9:AI:138:GLN:HA	1.10	0.85
1:AA:580:U:H4'	15:AO:115:ILE:HG21	0.87	0.85
23:BD:9:SER:H	23:BD:15:THR:HG21	1.40	0.85
18:B3:1127:C:HO2'	18:B3:2492:U:H5'	1.38	0.85
13:AM:42:TYR:HB3	13:AM:84:TRP:CH2	2.12	0.84
42:B0:19:ARG:HB2	42:B0:32:TRP:HA	1.59	0.84
9:AI:51:LEU:HD22	9:AI:58:LYS:HD3	1.57	0.84
24:BE:62:CYS:SG	24:BE:105:ILE:HG21	2.17	0.84
24:BE:65:ILE:CG1	24:BE:75:LEU:HD22	2.07	0.84
18:B3:449:A:C4'	23:BD:194:ARG:HH21	1.90	0.84
18:B3:52:A:C5'	45:BY:20:ARG:NH1	2.07	0.84
18:B3:1875:A:C2'	21:BB:150:PRO:HG2	2.02	0.84
22:BC:92:VAL:HG23	22:BC:101:LEU:CD1	2.08	0.84
22:BC:236:LYS:HE2	22:BC:237:LEU:CD2	2.06	0.84
22:BC:260:MET:CE	32:BM:66:THR:CG2	2.54	0.84
22:BC:359:ASP:HB2	38:BS:16:GLY:CA	2.06	0.84
26:BG:110:LYS:O	26:BG:117:GLU:HB3	1.77	0.84
26:BG:157:ASP:HB3	26:BG:158:PRO:HD2	1.58	0.84
18:B3:1789:G:H5''	18:B3:2880:A:N7	1.91	0.84
18:B3:2214:A:N3	20:BA:106:LYS:CB	2.37	0.84
18:B3:1676:G:C4'	39:BT:115:PRO:HG3	2.07	0.84
3:AB:145:LEU:HD22	3:AB:172:ILE:HD13	1.59	0.84
1:AA:18:C:O2	1:AA:572:A:H2	1.20	0.84
1:AA:764:C:H4'	15:AO:108:LYS:HG3	1.59	0.84
1:AA:111:G:C2'	1:AA:389:A:O2'	2.25	0.84
18:B3:2396:C:O2'	41:BV:46:LYS:CE	2.23	0.84
45:BY:44:ARG:HB3	45:BY:44:ARG:CZ	2.07	0.84
47:B9:36:TYR:H	47:B9:46:VAL:HG12	1.40	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:81:LYS:CD	8:AH:123:LYS:HD2	2.06	0.84
1:AA:1299:A:H4'	13:AM:26:ILE:HG12	1.60	0.84
1:AA:1320:C:H1'	17:AS:119:PHE:CE1	2.12	0.84
18:B3:541:C:C5	42:B0:15:LYS:HG2	2.11	0.84
10:AJ:49:ASN:OD1	10:AJ:93:LEU:HD21	1.77	0.84
23:BD:256:LYS:H	23:BD:256:LYS:HD2	1.41	0.84
18:B3:1359:U:O4	23:BD:70:VAL:CG2	2.21	0.84
18:B3:1163:G:C8	30:BK:51:LYS:HD2	2.12	0.84
18:B3:69:A:C5'	44:BX:52:ALA:CB	2.55	0.84
44:BX:41:LEU:HD11	44:BX:43:LYS:HE3	1.57	0.84
28:BI:34:TYR:HB2	28:BI:89:VAL:HG22	1.58	0.84
37:BR:92:PHE:CE1	38:BS:20:LEU:CD1	2.60	0.84
18:B3:156:C:C4'	31:BL:163:LEU:O	2.23	0.84
18:B3:1814:G:H2'	18:B3:2733:U:C4	2.11	0.84
18:B3:2737:C:N1	35:BP:60:SER:CB	2.40	0.84
18:B3:1676:G:O3'	39:BT:115:PRO:HD2	1.68	0.84
10:AJ:73:GLY:HA2	14:AN:25:SER:CB	2.06	0.84
10:AJ:74:GLU:O	14:AN:38:CYS:HB2	1.76	0.84
1:AA:615:C:P	5:AD:107:ARG:NH1	2.50	0.84
1:AA:712:A:N1	11:AK:124:SER:HA	1.93	0.84
18:B3:2459:G:P	46:BZ:86:ARG:NE	2.50	0.84
18:B3:2634:G:C6	21:BB:214:ASN:ND2	2.41	0.84
1:AA:1239:A:N7	13:AM:55:HIS:HE1	1.75	0.84
42:B0:32:TRP:HH2	42:B0:34:LYS:HD2	1.41	0.84
9:AI:100:SER:CA	9:AI:105:LYS:HA	2.08	0.84
9:AI:45:PHE:HD1	9:AI:77:VAL:HG22	1.40	0.84
19:B4:51:A:N9	24:BE:58:LYS:HB2	1.30	0.84
24:BE:16:PHE:C	36:BQ:19:PHE:HE2	1.81	0.84
24:BE:75:LEU:HD21	24:BE:109:THR:CG2	2.06	0.84
36:BQ:67:VAL:HG23	36:BQ:71:SER:O	1.76	0.84
18:B3:1351:G:H8	23:BD:108:TRP:CZ3	1.94	0.84
18:B3:721:A:H5''	34:BO:71:LEU:H	1.41	0.84
18:B3:749:C:O2'	23:BD:113:ASN:OD1	1.95	0.84
34:BO:87:VAL:HG13	34:BO:106:PHE:CB	2.06	0.84
34:BO:74:GLU:OE1	34:BO:138:LEU:HD23	1.78	0.84
18:B3:52:A:H5'	45:BY:20:ARG:HH11	1.39	0.84
18:B3:1184:A:H5'	30:BK:85:LEU:O	1.78	0.84
18:B3:1869:A:H2'	21:BB:192:ARG:NH1	1.93	0.84
18:B3:1855:G:C5	21:BB:149:LEU:HB3	2.13	0.84
18:B3:1900:A:C5'	21:BB:238:ALA:HB1	2.06	0.84
25:BF:131:PRO:HA	25:BF:228:PHE:CE2	2.12	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:232:G:N2	1:AA:264:U:O2	2.09	0.84
18:B3:107:U:H1'	44:BX:56:THR:HB	0.86	0.84
18:B3:1133:A:C6	18:B3:2500:C:O2	2.31	0.84
18:B3:2806:C:C3'	22:BC:343:THR:OG1	2.23	0.84
18:B3:402:U:OP1	31:BL:97:LEU:CD2	2.25	0.84
18:B3:401:C:H4'	31:BL:94:GLN:CA	2.07	0.84
18:B3:1566:C:O3'	35:BP:56:VAL:HG13	1.76	0.84
18:B3:2338:G:C5'	29:BJ:125:ASP:HA	1.91	0.84
3:AB:173:TRP:O	3:AB:176:LEU:HG	1.77	0.84
37:BR:32:ARG:HB2	37:BR:64:LYS:CB	2.01	0.84
37:BR:32:ARG:NH2	37:BR:34:LEU:HD12	1.92	0.84
1:AA:1075:C:H5'	3:AB:102:THR:CB	2.07	0.84
40:BU:30:LEU:HD13	40:BU:78:PHE:CD1	2.12	0.84
1:AA:404:U:C6	5:AD:19:TYR:CE2	2.65	0.84
41:BV:95:LYS:HA	41:BV:95:LYS:HE2	1.58	0.84
1:AA:518:C:C2	12:AL:65:ASN:HA	2.11	0.84
7:AG:138:ASN:ND2	7:AG:202:LYS:HB2	1.92	0.84
24:BE:120:LYS:HD2	24:BE:121:GLY:N	1.91	0.84
1:AA:1305:G:C2	13:AM:40:ARG:NH1	2.45	0.84
1:AA:1225:A:H2	17:AS:126:VAL:O	1.60	0.84
18:B3:618:G:C6	42:B0:48:GLY:HA3	2.12	0.84
24:BE:111:GLN:H	24:BE:115:LEU:HB2	1.43	0.84
19:B4:69:U:C1'	24:BE:14:SER:CB	2.54	0.84
19:B4:35:C:O2'	24:BE:183:TRP:O	1.93	0.84
24:BE:17:GLN:OE1	36:BQ:19:PHE:CD2	2.31	0.84
36:BQ:57:TYR:CE2	36:BQ:76:ILE:HD13	2.12	0.84
18:B3:671:A:C5'	23:BD:212:ASN:CA	2.55	0.84
25:BF:102:LEU:CA	25:BF:105:LEU:HD23	2.08	0.84
19:B4:85:A:H4'	25:BF:228:PHE:HZ	1.42	0.84
25:BF:209:PRO:HG2	25:BF:242:MET:HG3	1.58	0.84
18:B3:93:C:C5'	44:BX:42:PRO:CB	2.53	0.84
18:B3:2312:G:H5'	28:BI:22:TYR:HD1	1.41	0.84
22:BC:105:TRP:CE3	22:BC:138:GLN:HA	2.12	0.84
18:B3:2283:G:C6	28:BI:105:CYS:C	2.51	0.84
31:BL:107:ARG:CZ	31:BL:107:ARG:HA	2.07	0.84
31:BL:34:VAL:HA	31:BL:64:ARG:CD	2.06	0.84
18:B3:2737:C:C5	35:BP:61:ARG:HA	2.12	0.84
18:B3:1794:G:C3'	35:BP:96:ARG:CG	2.50	0.84
29:BJ:18:LEU:CG	29:BJ:68:VAL:HG21	2.06	0.84
4:AC:11:VAL:CG2	14:AN:33:TYR:O	2.25	0.84
10:AJ:80:GLU:OE1	14:AN:43:ARG:HD3	1.78	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:62:U:O2'	1:AA:385:C:C2	2.29	0.84
18:B3:1225:C:O3'	18:B3:1246:A:N6	2.09	0.84
27:BH:9:GLN:HA	27:BH:54:LYS:HB3	1.57	0.84
18:B3:1228:C:H5''	32:BM:47:PHE:CD1	2.13	0.84
1:AA:1086:U:C5'	1:AA:1389:C:H4'	2.07	0.84
3:AB:24:GLY:HA3	3:AB:46:VAL:HA	1.59	0.84
21:BB:142:GLU:HG3	21:BB:144:LYS:HE3	1.58	0.84
17:AS:85:ILE:HG21	17:AS:116:LEU:HD21	1.58	0.84
18:B3:1688:G:N1	33:BN:129:TYR:OH	2.10	0.84
18:B3:2363:G:H22	36:BQ:8:ARG:HD3	1.35	0.84
42:B0:96:ILE:HG13	42:B0:100:ILE:HG21	1.60	0.84
18:B3:449:A:OP1	23:BD:45:LYS:O	1.94	0.84
21:BB:177:PRO:HB2	47:B9:20:SER:O	1.76	0.84
21:BB:177:PRO:HG3	47:B9:25:VAL:HG23	1.57	0.84
25:BF:181:ASP:HA	25:BF:184:ILE:CD1	2.07	0.84
25:BF:180:ILE:HD13	25:BF:181:ASP:OD1	1.78	0.84
18:B3:2718:C:OP2	22:BC:331:ARG:CZ	2.26	0.84
22:BC:92:VAL:CB	22:BC:101:LEU:HD21	2.08	0.84
28:BI:59:GLN:HG2	28:BI:126:ALA:HB3	1.59	0.84
31:BL:186:ARG:HH11	31:BL:191:LYS:HG2	1.42	0.84
29:BJ:83:LEU:HD13	29:BJ:84:LYS:N	1.92	0.84
2:AT:141:THR:CG2	2:AT:483:PHE:CB	2.48	0.84
18:B3:1139:U:H4'	27:BH:62:ARG:CB	2.07	0.84
1:AA:675:A:N6	11:AK:122:SER:O	2.10	0.84
35:BP:8:ARG:CZ	35:BP:8:ARG:HA	2.07	0.84
1:AA:877:C:C2	8:AH:3:SER:OG	2.31	0.84
40:BU:31:LEU:HD11	40:BU:79:ALA:N	1.93	0.84
2:AT:501:LEU:HD11	12:AL:99:ASN:ND2	1.77	0.84
18:B3:1267:C:H4'	42:B0:61:LYS:HZ2	1.42	0.84
18:B3:1811:A:C2	18:B3:2752:C:C2	2.65	0.84
20:BA:32:VAL:HG11	20:BA:179:LEU:CD2	2.08	0.84
34:BO:104:LEU:HD23	34:BO:105:ARG:H	1.42	0.84
1:AA:1299:A:N6	13:AM:55:HIS:HE1	1.37	0.84
1:AA:1315:U:O4	17:AS:49:MET:CB	2.25	0.84
18:B3:539:G:C5	42:B0:50:ILE:HD11	2.13	0.84
9:AI:100:SER:N	9:AI:116:LEU:HB2	1.92	0.84
9:AI:100:SER:C	9:AI:105:LYS:HA	1.98	0.84
1:AA:1178:G:C6	9:AI:111:TYR:CE1	2.66	0.84
24:BE:106:ALA:CA	24:BE:110:LEU:HD13	2.07	0.84
18:B3:1315:G:O3'	42:B0:104:ASN:O	1.96	0.84
23:BD:103:LYS:HE2	23:BD:106:ARG:CB	2.06	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:27:ALA:HB3	23:BD:126:ALA:HB1	1.57	0.84
18:B3:677:C:O5'	23:BD:232:LEU:O	1.95	0.84
18:B3:1168:C:C6	30:BK:114:ARG:NH1	2.04	0.84
47:B9:54:TRP:NE1	47:B9:70:VAL:HG23	1.93	0.84
21:BB:195:TRP:CH2	21:BB:197:LYS:HD2	2.12	0.84
25:BF:180:ILE:N	25:BF:183:LEU:HG	1.91	0.84
22:BC:241:THR:HG21	22:BC:247:LYS:HD2	1.60	0.84
37:BR:18:PRO:HB3	37:BR:49:LEU:HD11	1.57	0.84
26:BG:105:LYS:HG3	26:BG:107:ARG:NH2	1.92	0.84
26:BG:151:LEU:HD21	26:BG:185:LEU:CG	2.06	0.84
18:B3:1806:G:C4'	18:B3:2874:G:C1'	2.37	0.84
41:BV:27:HIS:HB3	41:BV:28:PRO:HA	1.59	0.84
29:BJ:162:PHE:HD1	29:BJ:166:TYR:HE2	1.21	0.84
18:B3:124:C:C6	39:BT:88:LYS:CD	2.51	0.84
18:B3:1671:U:C4'	39:BT:92:TYR:HE1	1.86	0.84
3:AB:146:THR:CG2	3:AB:150:SER:HB2	2.08	0.84
18:B3:1118:A:C5'	18:B3:1227:C:C5	2.53	0.84
1:AA:1404:C:O2'	1:AA:1520:G:P	2.34	0.84
2:AT:501:LEU:CD1	12:AL:99:ASN:CB	2.26	0.84
1:AA:356:A:OP1	1:AA:366:C:C4	2.30	0.84
18:B3:697:G:C2'	41:BV:112:LEU:HD11	2.07	0.84
1:AA:755:G:OP2	15:AO:123:ARG:CD	2.22	0.84
1:AA:1064:G:H4'	1:AA:1065:U:H5'	1.58	0.84
18:B3:506:G:H22	18:B3:509:A:H5'	1.43	0.84
1:AA:1220:G:H3'	17:AS:78:THR:C	1.92	0.84
1:AA:990:C:H5	1:AA:1016:A:C2	1.95	0.84
9:AI:114:THR:HG22	9:AI:117:ILE:HG22	1.57	0.84
23:BD:19:LEU:HB2	23:BD:20:PRO:HA	1.57	0.84
18:B3:672:G:OP1	23:BD:214:ILE:CD1	2.25	0.84
45:BY:17:LEU:CA	45:BY:24:ARG:HA	2.08	0.84
18:B3:1183:C:O3'	30:BK:85:LEU:HD11	1.78	0.84
30:BK:91:ASP:CG	30:BK:101:SER:HB2	1.98	0.84
18:B3:1652:C:H6	21:BB:173:ARG:HH11	1.20	0.84
21:BB:53:ARG:HD2	21:BB:55:ALA:N	1.92	0.84
44:BX:8:GLU:O	44:BX:11:THR:HG22	1.77	0.84
18:B3:2709:G:OP1	37:BR:10:LYS:CA	2.24	0.84
22:BC:228:VAL:CG2	22:BC:234:THR:HG21	2.06	0.84
22:BC:334:ILE:HG12	22:BC:335:VAL:H	1.42	0.84
22:BC:365:GLY:CA	38:BS:35:LYS:CG	2.40	0.84
37:BR:54:LEU:HA	37:BR:78:VAL:HG13	1.57	0.84
18:B3:1815:A:N3	18:B3:2746:A:C5	2.17	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:109:ARG:HB2	35:BP:114:ILE:CG2	2.08	0.84
29:BJ:87:GLU:HG3	29:BJ:122:PHE:CZ	2.12	0.84
18:B3:2168:G:C6	18:B3:2169:C:N4	2.45	0.84
18:B3:1672:G:H5''	39:BT:91:LYS:CG	2.07	0.84
27:BH:17:THR:HG22	27:BH:18:VAL:H	1.43	0.84
27:BH:43:VAL:HG13	32:BM:126:LEU:C	1.90	0.84
1:AA:778:G:C4	11:AK:132:ARG:CG	2.46	0.84
18:B3:698:A:H5'	41:BV:113:GLY:O	1.78	0.84
32:BM:7:VAL:HG13	32:BM:33:VAL:HG23	1.60	0.84
18:B3:289:G:N2	18:B3:363:A:H2	1.74	0.84
2:AT:186:ASN:HB3	2:AT:201:GLN:HE21	1.41	0.84
18:B3:777:U:H1'	45:BY:12:ASN:ND2	1.93	0.84
18:B3:538:C:H2'	42:B0:21:HIS:HA	1.60	0.84
18:B3:629:A:H5'	42:B0:39:ASP:C	1.97	0.84
18:B3:1260:G:O6	42:B0:45:ARG:NH1	2.10	0.84
9:AI:47:VAL:HG22	9:AI:77:VAL:O	1.78	0.84
18:B3:1019:C:H5''	36:BQ:78:LYS:HE2	1.60	0.84
18:B3:1348:A:H2'	23:BD:39:THR:HA	0.84	0.84
18:B3:745:G:N2	41:BV:76:LYS:HZ1	1.75	0.84
31:BL:82:LYS:NZ	46:BZ:49:PHE:CA	2.41	0.84
18:B3:1875:A:N3	21:BB:151:SER:HB2	1.92	0.84
21:BB:81:VAL:HG22	47:B9:64:ALA:HB2	1.59	0.84
18:B3:1285:U:O3'	25:BF:155:ILE:CB	2.25	0.84
1:AA:132:C:N1	1:AA:263:A:N3	2.13	0.84
28:BI:89:VAL:HA	28:BI:136:PHE:CB	2.08	0.84
31:BL:141:ILE:HA	31:BL:147:TYR:CE2	2.13	0.84
18:B3:1761:U:O2'	35:BP:80:ARG:NH2	2.11	0.84
18:B3:1788:U:O2'	18:B3:2881:C:N3	2.09	0.84
18:B3:1805:G:N1	18:B3:2883:A:C4	2.45	0.84
18:B3:1671:U:H4'	39:BT:92:TYR:HE1	1.41	0.84
5:AD:91:LYS:O	6:AE:174:GLY:HA3	1.76	0.84
1:AA:12:U:O4'	1:AA:525:C:O2'	1.95	0.84
18:B3:164:G:O3'	41:BV:31:ARG:HB2	1.78	0.84
32:BM:123:LEU:HD13	32:BM:123:LEU:H	1.42	0.84
1:AA:1081:G:OP1	6:AE:88:GLN:CD	2.16	0.84
18:B3:2404:G:H8	36:BQ:69:LYS:CD	1.85	0.84
11:AK:116:ASP:OD1	11:AK:118:THR:HG23	1.78	0.84
24:BE:220:SER:HA	24:BE:223:PHE:CE2	2.13	0.84
1:AA:1302:U:C4'	13:AM:54:LEU:CD2	2.39	0.84
13:AM:86:LEU:HD23	13:AM:98:TYR:HB2	1.57	0.84
18:B3:2060:A:O3'	42:B0:24:ARG:NE	1.87	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1291:G:OP1	7:AG:111:ARG:NH1	2.11	0.84
18:B3:1010:C:C4'	24:BE:15:ARG:CG	2.49	0.84
33:BN:37:GLY:H	33:BN:113:VAL:HG13	1.42	0.84
18:B3:1310:U:C4	23:BD:181:LEU:HD12	2.13	0.84
18:B3:448:G:N2	23:BD:47:GLN:CB	2.40	0.84
23:BD:160:LYS:CD	23:BD:163:GLU:HG2	2.08	0.84
18:B3:449:A:C4'	23:BD:194:ARG:NH2	2.39	0.84
34:BO:68:ALA:HB2	34:BO:92:ARG:CZ	2.06	0.84
18:B3:120:A:HI1'	45:BY:17:LEU:O	1.78	0.84
25:BF:221:HIS:HA	25:BF:228:PHE:CB	2.08	0.84
18:B3:2678:A:N3	22:BC:14:GLY:HA2	1.93	0.84
28:BI:35:ASP:HA	28:BI:88:ARG:NH2	1.93	0.84
26:BG:129:TYR:H	26:BG:204:ALA:HB3	1.41	0.84
31:BL:109:ALA:HB3	31:BL:112:LEU:HD21	1.59	0.84
29:BJ:53:VAL:HG23	29:BJ:57:GLY:O	1.78	0.84
5:AD:156:ILE:HD13	5:AD:157:ASP:N	1.93	0.84
8:AH:26:ILE:HB	8:AH:62:VAL:CG2	2.08	0.84
2:AT:145:GLN:H	2:AT:483:PHE:HE2	1.25	0.84
18:B3:2565:C:C4	27:BH:171:ASP:OD2	2.31	0.84
32:BM:72:PHE:HB3	32:BM:77:ARG:HB2	1.60	0.84
40:BU:22:ALA:HB1	40:BU:23:PRO:HD3	1.60	0.84
5:AD:26:ALA:HB1	5:AD:70:LEU:HD21	1.60	0.84
18:B3:697:G:P	41:BV:130:SER:HG	2.00	0.84
41:BV:74:LEU:HD21	41:BV:117:ILE:HG21	1.60	0.84
18:B3:2663:U:C2	18:B3:2816:A:C4	2.66	0.84
1:AA:125:U:C4'	1:AA:291:C:H4'	2.07	0.84
16:AQ:90:LEU:HD13	16:AQ:101:LYS:HB3	1.60	0.84
7:AG:173:LEU:HD12	7:AG:174:LEU:HD22	1.58	0.84
5:AD:74:ASN:HD21	5:AD:79:ARG:HB2	1.41	0.84
16:AQ:74:VAL:HG21	16:AQ:116:VAL:HG21	1.58	0.84
2:AT:132:ILE:HD12	2:AT:162:ARG:HD3	1.57	0.84
1:AA:1239:A:C5	13:AM:55:HIS:CE1	2.51	0.84
1:AA:1318:A:N9	17:AS:54:ALA:HB1	1.93	0.84
18:B3:618:G:C8	42:B0:46:PHE:O	2.31	0.84
10:AJ:93:LEU:CD2	10:AJ:99:ILE:HD13	2.07	0.84
19:B4:11:A:C5	24:BE:14:SER:C	2.47	0.84
33:BN:101:ALA:HB1	33:BN:106:LEU:HD21	1.60	0.84
18:B3:656:G:H4'	23:BD:30:ARG:HD2	1.60	0.84
22:BC:112:GLU:HA	22:BC:114:LYS:HZ2	1.41	0.84
22:BC:121:TRP:CE2	22:BC:123:LYS:HG2	2.12	0.84
26:BG:107:ARG:CG	26:BG:108:LEU:HD22	2.08	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:119:TRP:HB2	31:BL:120:VAL:O	1.78	0.84
20:BA:155:ILE:HG21	20:BA:167:VAL:HG13	1.59	0.84
1:AA:618:C:OP2	5:AD:141:VAL:CG2	2.26	0.84
3:AB:171:LEU:HA	3:AB:174:TYR:CE2	2.12	0.84
1:AA:621:A:P	5:AD:143:ILE:HG12	2.18	0.84
1:AA:64:G:H1'	1:AA:97:G:O6	1.78	0.84
18:B3:1103:C:O2'	32:BM:86:MET:HB3	1.77	0.84
1:AA:1101:A:N6	3:AB:102:THR:HG22	1.93	0.84
18:B3:2403:C:O2'	36:BQ:69:LYS:HB2	1.76	0.84
11:AK:26:PHE:CZ	11:AK:28:HIS:HB3	2.13	0.84
32:BM:84:ARG:NE	32:BM:98:LEU:HD13	1.93	0.84
13:AM:122:HIS:O	13:AM:125:ILE:HG22	1.78	0.83
18:B3:1690:C:C6	33:BN:129:TYR:CD1	2.63	0.83
33:BN:90:VAL:CA	33:BN:93:LEU:HD23	2.07	0.83
34:BO:115:VAL:O	34:BO:116:LYS:HD3	1.78	0.83
18:B3:1167:G:C4'	30:BK:111:GLU:HA	2.08	0.83
18:B3:1869:A:C2'	21:BB:192:ARG:CZ	2.49	0.83
44:BX:25:LYS:O	44:BX:28:LEU:HB3	1.78	0.83
18:B3:2546:U:H2'	22:BC:235:LYS:HE3	1.60	0.83
22:BC:280:LYS:HB2	22:BC:324:LYS:CD	2.08	0.83
22:BC:48:TYR:HA	22:BC:78:VAL:CG1	2.08	0.83
18:B3:2819:C:H5'	22:BC:99:ARG:CZ	2.05	0.83
28:BI:55:ASN:HD21	28:BI:164:LYS:HB2	1.42	0.83
37:BR:78:VAL:HG23	37:BR:99:ALA:O	1.78	0.83
26:BG:206:ASP:OD2	26:BG:209:ALA:HB3	1.78	0.83
18:B3:1812:G:O4'	18:B3:2732:U:O2'	1.95	0.83
18:B3:2335:C:H6	29:BJ:116:ASP:OD2	1.56	0.83
8:AH:27:ARG:HE	8:AH:27:ARG:HA	1.40	0.83
1:AA:65:U:O2'	1:AA:383:A:N1	2.10	0.83
2:AT:141:THR:HA	2:AT:481:MET:O	1.78	0.83
18:B3:2558:G:N2	18:B3:2799:A:C2	2.45	0.83
27:BH:90:MET:HB2	27:BH:181:VAL:HA	1.58	0.83
18:B3:1383:U:O2'	43:BW:32:VAL:HG11	1.78	0.83
46:BZ:21:GLN:HG2	46:BZ:74:VAL:CG1	2.08	0.83
18:B3:2853:U:H5''	22:BC:170:LEU:HD23	1.60	0.83
18:B3:81:G:C2'	40:BU:75:ARG:HG3	2.08	0.83
1:AA:1343:G:H5'	9:AI:137:PHE:O	1.78	0.83
41:BV:80:LEU:HD23	41:BV:86:ARG:HD2	1.58	0.83
4:AC:105:LYS:CD	4:AC:174:VAL:HG23	2.08	0.83
7:AG:139:THR:HB	7:AG:173:LEU:HD11	1.59	0.83
30:BK:56:ILE:HD13	30:BK:57:LYS:N	1.93	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1299:A:C4'	13:AM:57:ARG:NH1	2.27	0.83
13:AM:18:LEU:HD13	13:AM:74:GLN:OE1	1.78	0.83
1:AA:1309:G:N1	13:AM:95:GLY:HA3	1.93	0.83
42:B0:19:ARG:CG	42:B0:33:ARG:HG2	2.08	0.83
18:B3:629:A:H5''	42:B0:38:ILE:HG23	1.60	0.83
18:B3:617:C:O2'	42:B0:45:ARG:O	1.95	0.83
9:AI:97:ASP:N	9:AI:104:LEU:HB2	1.91	0.83
42:B0:87:MET:HG3	42:B0:118:LYS:H	1.41	0.83
18:B3:678:G:C8	23:BD:259:GLN:CG	2.60	0.83
34:BO:112:ALA:HA	34:BO:115:VAL:HG21	1.60	0.83
22:BC:357:TRP:C	38:BS:15:PRO:HB2	1.98	0.83
29:BJ:31:ARG:HB3	29:BJ:34:LYS:HE2	1.59	0.83
18:B3:2779:G:H1'	27:BH:163:GLN:CB	2.09	0.83
32:BM:53:TYR:N	32:BM:58:ARG:HG3	1.93	0.83
43:BW:8:THR:HG22	43:BW:73:ARG:HH12	1.43	0.83
2:AT:737:GLU:O	18:B3:1199:A:N1	2.12	0.83
1:AA:994:A:N7	1:AA:1046:A:N3	2.25	0.83
6:AE:100:VAL:CG1	6:AE:112:LEU:HD21	2.09	0.83
1:AA:1329:A:H5''	13:AM:98:TYR:CG	2.05	0.83
18:B3:1694:G:N1	45:BY:5:PRO:HG2	1.93	0.83
1:AA:1249:C:C1'	9:AI:73:HIS:CE1	2.62	0.83
24:BE:106:ALA:CB	24:BE:110:LEU:HD22	2.08	0.83
24:BE:187:THR:O	24:BE:198:TYR:HB2	1.76	0.83
19:B4:5:G:O2'	24:BE:50:ARG:NH2	2.11	0.83
1:AA:335:C:N3	1:AA:1434:A:N3	2.03	0.83
33:BN:35:ILE:H	33:BN:35:ILE:HD13	1.43	0.83
18:B3:672:G:C5'	23:BD:214:ILE:HG13	2.03	0.83
23:BD:187:ARG:CB	23:BD:197:ARG:HG3	2.06	0.83
18:B3:721:A:OP1	34:BO:71:LEU:HG	1.77	0.83
34:BO:81:VAL:CG2	34:BO:101:VAL:HG21	2.07	0.83
30:BK:103:ASN:HD22	30:BK:142:ARG:HB3	1.42	0.83
25:BF:174:LYS:HG2	25:BF:200:PHE:HE1	1.43	0.83
18:B3:2845:G:C5'	22:BC:24:ILE:CG2	2.53	0.83
18:B3:967:U:O4'	28:BI:34:TYR:HE2	1.53	0.83
18:B3:2719:A:C2	37:BR:91:VAL:HG13	2.13	0.83
31:BL:161:ARG:HG2	31:BL:166:THR:CG2	2.08	0.83
18:B3:2737:C:H41	35:BP:61:ARG:CZ	1.90	0.83
29:BJ:53:VAL:CG2	29:BJ:56:PHE:HB2	2.08	0.83
29:BJ:16:LEU:HD21	29:BJ:75:ALA:HB1	1.59	0.83
1:AA:402:G:N9	1:AA:621:A:N3	2.26	0.83
1:AA:67:C:N4	1:AA:70:G:O6	2.11	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:44:THR:HG21	27:BH:55:VAL:HG12	1.60	0.83
32:BM:12:GLY:CA	32:BM:123:LEU:HD12	2.08	0.83
1:AA:1075:C:OP1	3:AB:103:PRO:O	1.96	0.83
1:AA:633:G:HO2'	16:AQ:94:PRO:HB3	1.01	0.83
1:AA:1405:G:C8	1:AA:1519:A:H4'	2.12	0.83
32:BM:84:ARG:O	32:BM:87:VAL:HG22	1.78	0.83
7:AG:173:LEU:CD1	7:AG:174:LEU:HD22	2.07	0.83
18:B3:1097:A:OP1	25:BF:213:TRP:CE3	2.31	0.83
1:AA:134:A:N3	1:AA:325:A:H4'	1.93	0.83
30:BK:93:LYS:HD2	30:BK:96:LYS:HB2	1.58	0.83
1:AA:956:U:O2'	17:AS:126:VAL:HG11	1.76	0.83
1:AA:1328:C:C2'	13:AM:96:LYS:HB3	2.07	0.83
33:BN:104:LYS:HD3	33:BN:105:GLY:N	1.93	0.83
42:B0:71:HIS:O	42:B0:73:THR:HG23	1.78	0.83
34:BO:128:ALA:C	34:BO:130:ARG:HD3	1.98	0.83
34:BO:77:ALA:HB3	34:BO:79:LYS:CD	2.08	0.83
18:B3:53:C:H1'	18:B3:122:C:OP2	1.77	0.83
18:B3:764:C:O4'	23:BD:86:GLN:HB2	1.71	0.83
21:BB:49:HIS:HA	21:BB:56:PRO:HG3	1.60	0.83
21:BB:50:ASP:HB2	21:BB:53:ARG:HD3	1.57	0.83
16:AQ:87:ARG:HD2	16:AQ:104:LYS:HG2	1.60	0.83
22:BC:70:GLU:HB2	37:BR:88:ARG:CG	2.07	0.83
26:BG:161:LEU:HD22	31:BL:3:TYR:CE1	2.10	0.83
18:B3:1815:A:H8	18:B3:2733:U:N3	1.69	0.83
7:AG:112:ILE:O	7:AG:116:THR:HG23	1.77	0.83
18:B3:2337:G:P	29:BJ:103:PHE:HB2	2.18	0.83
18:B3:2167:A:H4'	18:B3:2168:G:O5'	1.77	0.83
39:BT:62:ILE:HD12	39:BT:63:GLU:N	1.93	0.83
10:AJ:69:LYS:HB2	14:AN:39:ARG:NH2	1.91	0.83
10:AJ:74:GLU:OE2	14:AN:44:GLU:OE2	1.95	0.83
6:AE:157:THR:CB	8:AH:127:PHE:CE1	2.62	0.83
1:AA:364:A:C8	12:AL:78:LYS:HD3	2.13	0.83
41:BV:20:ARG:CB	41:BV:23:LYS:HB3	2.06	0.83
27:BH:10:ILE:HG23	27:BH:52:LEU:HD23	1.59	0.83
32:BM:11:LYS:HB2	32:BM:36:ARG:HD2	1.60	0.83
18:B3:906:C:C2	18:B3:1329:A:C5	2.67	0.83
1:AA:1303:C:N4	13:AM:40:ARG:NE	2.27	0.83
1:AA:1220:G:H1'	17:AS:77:ARG:HA	1.60	0.83
9:AI:46:LYS:HB3	9:AI:49:GLU:CG	2.08	0.83
9:AI:28:ILE:HG12	9:AI:64:ILE:CG2	2.08	0.83
9:AI:73:HIS:O	9:AI:77:VAL:HG23	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1429:U:OP2	33:BN:124:GLN:CG	2.24	0.83
18:B3:1846:U:O2'	21:BB:181:ALA:N	1.99	0.83
18:B3:948:G:N2	36:BQ:100:LYS:CD	2.41	0.83
25:BF:83:VAL:HG23	25:BF:136:GLY:H	1.42	0.83
1:AA:132:C:O2	1:AA:263:A:N3	2.11	0.83
1:AA:265:G:C5'	16:AQ:130:ILE:O	2.25	0.83
44:BX:48:ARG:NH2	44:BX:49:LYS:HB3	1.91	0.83
18:B3:72:C:H4'	44:BX:49:LYS:NZ	1.93	0.83
22:BC:98:LEU:HA	22:BC:99:ARG:NH1	1.93	0.83
26:BG:150:VAL:HB	26:BG:198:ALA:CB	2.07	0.83
31:BL:53:LYS:HD3	31:BL:55:LYS:CG	2.08	0.83
39:BT:92:TYR:O	39:BT:95:LYS:HB3	1.77	0.83
10:AJ:73:GLY:CA	14:AN:25:SER:O	2.26	0.83
10:AJ:75:GLY:HA3	14:AN:40:GLN:HG2	0.84	0.83
3:AB:141:PRO:HA	8:AH:68:LEU:HD13	1.57	0.83
3:AB:32:GLN:NE2	3:AB:152:SER:HB3	1.94	0.83
1:AA:402:G:O3'	5:AD:144:PRO:HB2	1.78	0.83
5:AD:86:LEU:HD21	5:AD:104:PHE:CD2	2.13	0.83
18:B3:1120:U:C2	18:B3:1226:G:OP2	2.32	0.83
27:BH:132:VAL:HG11	27:BH:157:ASN:ND2	1.93	0.83
35:BP:21:VAL:HG23	35:BP:22:TRP:CZ2	2.13	0.83
1:AA:404:U:C1'	5:AD:19:TYR:CE2	2.59	0.83
18:B3:698:A:OP1	41:BV:132:LEU:CB	2.26	0.83
41:BV:125:LYS:HA	41:BV:145:GLU:CB	2.08	0.83
20:BA:32:VAL:CG1	20:BA:169:VAL:HG23	2.08	0.83
45:BY:2:LYS:HD3	45:BY:3:GLY:N	1.93	0.83
1:AA:1179:A:P	9:AI:116:LEU:CG	2.65	0.83
33:BN:56:ALA:CB	33:BN:73:LYS:HB2	2.08	0.83
18:B3:1305:C:H2'	23:BD:194:ARG:HH21	1.41	0.83
18:B3:448:G:N3	23:BD:47:GLN:CB	2.40	0.83
45:BY:27:HIS:N	45:BY:30:LYS:HD3	1.93	0.83
18:B3:1862:C:H5'	21:BB:7:GLN:O	1.77	0.83
18:B3:1095:U:HO2'	25:BF:209:PRO:HB3	1.40	0.83
18:B3:1206:C:O2'	18:B3:1207:A:H5'	1.77	0.83
22:BC:25:ARG:CD	22:BC:176:HIS:HB2	1.99	0.83
31:BL:98:ARG:HA	31:BL:129:PHE:CE2	2.13	0.83
18:B3:1807:U:O5'	18:B3:2885:A:O4'	1.96	0.83
18:B3:793:A:P	35:BP:83:THR:HG21	2.17	0.83
18:B3:2350:G:OP1	29:BJ:139:ARG:HD2	1.74	0.83
1:AA:12:U:H4'	1:AA:526:C:H5''	1.55	0.83
1:AA:553:A:P	12:AL:40:SER:HB3	2.16	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:109:VAL:HG22	2:AT:138:GLN:HG3	1.59	0.83
1:AA:712:A:C6	11:AK:124:SER:HA	2.13	0.83
43:BW:59:TRP:CH2	43:BW:66:VAL:HG22	2.13	0.83
6:AE:102:VAL:HG21	6:AE:189:LEU:CG	2.07	0.83
1:AA:359:U:C6	2:AT:391:LYS:HG3	2.12	0.83
41:BV:127:ARG:HG2	41:BV:128:PHE:H	1.42	0.83
18:B3:2040:C:H5'	18:B3:2759:C:HO2'	1.03	0.83
1:AA:1329:A:H2	13:AM:92:ILE:C	1.81	0.83
1:AA:1319:A:C5'	17:AS:115:TYR:CE2	1.95	0.83
1:AA:1291:G:C5'	7:AG:111:ARG:HH22	1.88	0.83
18:B3:772:G:N2	45:BY:48:TRP:CB	2.41	0.83
18:B3:1872:C:C2	21:BB:22:ARG:CG	2.62	0.83
25:BF:85:VAL:HG23	25:BF:133:VAL:HG21	1.61	0.83
22:BC:48:TYR:HB3	22:BC:334:ILE:O	1.77	0.83
28:BI:36:LEU:CB	28:BI:87:LEU:HB3	2.03	0.83
28:BI:88:ARG:HA	28:BI:88:ARG:NH1	1.93	0.83
37:BR:95:PHE:HB2	38:BS:21:PHE:CG	2.12	0.83
18:B3:433:C:H5'	31:BL:149:TRP:HZ3	1.11	0.83
18:B3:2580:G:C5'	18:B3:2680:A:N6	2.42	0.83
32:BM:138:GLY:O	32:BM:142:THR:HG23	1.79	0.83
46:BZ:9:THR:HB	46:BZ:19:HIS:HB2	1.60	0.83
40:BU:31:LEU:HD22	40:BU:101:PRO:CD	2.08	0.83
1:AA:1418:A:H2	18:B3:1989:G:C2	1.97	0.83
18:B3:814:G:C5'	35:BP:129:ASN:OD1	2.19	0.83
45:BY:4:THR:H	45:BY:5:PRO:HA	1.43	0.83
9:AI:58:LYS:HA	9:AI:61:ASN:ND2	1.92	0.83
24:BE:135:VAL:HG21	24:BE:142:PHE:CE1	2.14	0.83
24:BE:20:PHE:HA	24:BE:23:ARG:HB2	1.61	0.83
18:B3:2812:A:H2	18:B3:2814:A:H62	1.25	0.83
45:BY:33:CYS:HA	45:BY:38:TYR:CE1	2.13	0.83
18:B3:1860:U:O2'	21:BB:9:LYS:NZ	2.09	0.83
47:B9:55:THR:HG22	47:B9:61:LYS:HG2	1.61	0.83
21:BB:171:GLY:N	47:B9:67:ALA:CB	2.38	0.83
1:AA:129:U:H4'	16:AQ:127:CYS:O	1.77	0.83
18:B3:2820:A:OP1	22:BC:145:ARG:NE	2.12	0.83
18:B3:2657:G:P	22:BC:19:LYS:HA	2.19	0.83
22:BC:25:ARG:HD3	22:BC:176:HIS:CB	2.00	0.83
22:BC:49:LYS:HG3	22:BC:333:ARG:H	1.42	0.83
28:BI:86:HIS:HE1	28:BI:138:VAL:HG11	1.43	0.83
26:BG:166:PRO:HA	26:BG:169:CYS:SG	2.19	0.83
31:BL:50:LEU:HD21	31:BL:118:TYR:CE2	2.13	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BS:47:ARG:HB3	38:BS:47:ARG:NH1	1.93	0.83
18:B3:2346:C:C5'	29:BJ:47:SER:O	2.26	0.83
5:AD:175:ARG:HG2	5:AD:191:ALA:CB	2.09	0.83
6:AE:153:LEU:HD11	8:AH:98:PHE:HB3	0.84	0.83
1:AA:66:G:N3	1:AA:69:G:N7	2.26	0.83
40:BU:58:VAL:HG21	40:BU:63:LYS:CG	2.05	0.83
18:B3:112:G:H4'	18:B3:113:A:OP2	1.78	0.83
18:B3:2397:G:C5	41:BV:46:LYS:NZ	2.43	0.83
6:AE:98:LYS:CE	6:AE:114:ILE:HB	2.04	0.83
32:BM:84:ARG:HA	32:BM:84:ARG:NE	1.94	0.83
23:BD:250:THR:HG22	23:BD:253:ALA:HB3	1.61	0.83
1:AA:1319:A:H5'	17:AS:115:TYR:CE2	2.12	0.83
18:B3:621:C:C3'	42:B0:36:LYS:HB2	1.97	0.83
18:B3:621:C:H3'	42:B0:36:LYS:CB	2.08	0.83
9:AI:33:SER:HB2	9:AI:38:VAL:HG23	1.59	0.83
9:AI:51:LEU:HD22	9:AI:58:LYS:HZ2	1.44	0.83
18:B3:951:A:H5'	36:BQ:43:LYS:HD3	1.59	0.83
1:AA:318:G:H1'	1:AA:1468:A:C1'	2.08	0.83
33:BN:20:TYR:HB2	33:BN:142:PRO:CB	2.09	0.83
42:B0:96:ILE:CG1	42:B0:100:ILE:HG21	2.09	0.83
23:BD:159:GLN:O	23:BD:217:ALA:HB2	1.79	0.83
45:BY:46:TYR:CD2	45:BY:48:TRP:HB3	2.13	0.83
21:BB:47:ILE:CD1	47:B9:53:ILE:HD11	2.08	0.83
1:AA:131:C:H6	16:AQ:128:ARG:HG3	0.81	0.83
18:B3:91:G:H2'	44:BX:41:LEU:CB	2.03	0.83
18:B3:2820:A:H1'	22:BC:89:VAL:CB	2.07	0.83
22:BC:81:PRO:HD3	22:BC:204:VAL:HG13	1.60	0.83
18:B3:2845:G:C4'	22:BC:24:ILE:HG22	1.97	0.83
28:BI:52:LEU:HD21	28:BI:137:SER:HB3	1.60	0.83
18:B3:1055:G:OP1	28:BI:98:ARG:HG3	1.76	0.83
18:B3:2244:A:H4'	31:BL:27:TRP:HZ3	1.17	0.83
18:B3:1805:G:H5'	18:B3:2875:A:C3'	1.87	0.83
18:B3:1816:C:OP1	18:B3:2750:G:O3'	1.86	0.83
18:B3:2336:G:N2	29:BJ:127:TYR:CE2	2.34	0.83
29:BJ:71:ARG:HD2	29:BJ:74:LYS:HB3	1.60	0.83
39:BT:65:PRO:C	39:BT:83:PHE:HB3	1.99	0.83
1:AA:69:G:O4'	1:AA:174:C:C6	2.32	0.83
37:BR:32:ARG:HD2	37:BR:62:VAL:HB	1.61	0.83
1:AA:1419:G:H21	18:B3:1990:C:H5'	0.67	0.83
27:BH:40:HIS:CE1	32:BM:127:ARG:NH1	2.47	0.83
35:BP:22:TRP:CZ2	35:BP:49:ILE:HG23	2.14	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:9:LEU:HD12	35:BP:37:ARG:HE	1.43	0.83
46:BZ:67:VAL:HG23	46:BZ:85:LYS:O	1.78	0.83
1:AA:792:A:C6	1:AA:1498:U:OP2	2.18	0.83
18:B3:81:G:C5'	40:BU:74:TYR:O	2.27	0.83
1:AA:919:A:C5'	1:AA:1079:G:H22	1.92	0.83
1:AA:559:A:C8	12:AL:36:THR:HG23	2.10	0.83
41:BV:143:VAL:HG22	41:BV:144:VAL:H	1.43	0.83
41:BV:90:LEU:HD13	41:BV:96:GLU:CG	2.08	0.83
1:AA:121:C:N1	1:AA:235:C:C4	2.35	0.83
18:B3:1811:A:C4	18:B3:2752:C:O2	2.31	0.83
15:AO:70:ILE:O	15:AO:73:ILE:HG22	1.78	0.83
18:B3:538:C:N3	42:B0:21:HIS:ND1	2.25	0.83
9:AI:35:ILE:HD11	9:AI:45:PHE:CE2	2.14	0.83
24:BE:110:LEU:HA	24:BE:115:LEU:CG	2.08	0.83
1:AA:320:C:H1'	1:AA:1435:G:C1'	2.08	0.83
18:B3:553:G:C4'	42:B0:69:SER:OG	2.27	0.83
18:B3:1311:G:N7	23:BD:185:LYS:HB2	1.92	0.83
18:B3:449:A:N6	18:B3:1349:G:C2'	2.32	0.83
23:BD:103:LYS:CE	23:BD:106:ARG:HB3	2.09	0.83
18:B3:1304:U:C5'	23:BD:193:TYR:CE2	2.62	0.83
18:B3:671:A:C5'	23:BD:212:ASN:O	2.27	0.83
30:BK:53:PHE:CE1	30:BK:86:LYS:CE	2.62	0.83
1:AA:131:C:C4'	1:AA:264:U:C1'	2.48	0.83
1:AA:538:G:H5'	12:AL:141:GLU:CB	2.09	0.83
44:BX:51:ILE:O	44:BX:54:VAL:HG12	1.77	0.83
18:B3:2712:G:O2'	37:BR:43:GLY:CA	2.17	0.83
18:B3:2848:G:P	22:BC:173:LYS:CE	2.67	0.83
18:B3:2671:U:P	22:BC:178:ALA:CB	2.66	0.83
28:BI:88:ARG:HD3	28:BI:89:VAL:N	1.94	0.83
18:B3:2133:U:C5'	18:B3:2134:G:H5'	2.08	0.83
18:B3:1565:C:O3'	35:BP:59:LYS:CG	2.27	0.83
18:B3:1787:C:C2	18:B3:2883:A:C8	2.66	0.83
18:B3:921:G:H5''	41:BV:42:ILE:N	1.92	0.83
29:BJ:59:ARG:HB3	29:BJ:59:ARG:NH1	1.94	0.83
20:BA:108:ASN:CB	20:BA:162:VAL:HG23	2.08	0.83
1:AA:58:C:O2'	1:AA:388:G:N1	2.11	0.83
1:AA:64:G:N9	1:AA:97:G:C6	2.38	0.83
37:BR:61:THR:CG2	37:BR:72:LYS:HB3	2.09	0.83
18:B3:1228:C:HO3'	32:BM:47:PHE:HD2	1.23	0.83
27:BH:12:VAL:HG22	27:BH:13:PRO:HB3	1.61	0.83
27:BH:24:ILE:HD13	27:BH:25:VAL:H	1.41	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1399:A:O2'	43:BW:56:GLN:HG3	1.77	0.83
18:B3:82:C:P	40:BU:75:ARG:CG	2.65	0.83
40:BU:46:LYS:HD2	40:BU:47:ALA:N	1.94	0.83
1:AA:404:U:H1'	5:AD:19:TYR:HE2	1.42	0.83
1:AA:928:G:C5'	1:AA:1533:C:C5	2.59	0.83
4:AC:108:LEU:HD21	4:AC:181:LEU:HD22	1.60	0.83
20:BA:117:ILE:HD12	20:BA:118:LYS:N	1.93	0.83
31:BL:6:LEU:CD1	31:BL:44:PRO:HD2	2.09	0.83
1:AA:1220:G:H21	17:AS:102:PHE:CB	1.90	0.82
18:B3:629:A:C5'	42:B0:39:ASP:N	2.42	0.82
24:BE:46:THR:HG21	24:BE:49:TYR:HB2	1.61	0.82
33:BN:81:ARG:H	33:BN:81:ARG:HH11	1.27	0.82
18:B3:1349:G:P	23:BD:35:HIS:O	2.36	0.82
18:B3:449:A:C2	18:B3:1348:A:C5	2.67	0.82
18:B3:677:C:H4'	23:BD:256:LYS:HE3	1.54	0.82
18:B3:1350:U:C5	23:BD:43:LYS:CD	2.61	0.82
18:B3:1167:G:C1'	30:BK:107:ASP:O	2.26	0.82
21:BB:27:LYS:CD	21:BB:122:ARG:HB2	2.07	0.82
21:BB:61:VAL:HG22	21:BB:62:PHE:CD1	2.14	0.82
1:AA:231:G:C2	1:AA:263:A:C2	2.47	0.82
18:B3:1160:G:N2	18:B3:1206:C:C6	2.46	0.82
18:B3:1206:C:C2	18:B3:1207:A:N7	2.46	0.82
18:B3:1206:C:O2	18:B3:1207:A:C1'	2.26	0.82
22:BC:116:ARG:NH1	22:BC:176:HIS:HB3	1.94	0.82
22:BC:89:VAL:O	22:BC:157:VAL:HG23	1.79	0.82
22:BC:28:VAL:HG11	22:BC:339:LYS:CD	2.09	0.82
22:BC:357:TRP:HB3	38:BS:15:PRO:CA	2.09	0.82
18:B3:155:C:P	31:BL:190:TRP:CE3	2.71	0.82
1:AA:615:C:OP1	5:AD:107:ARG:NH1	2.12	0.82
1:AA:62:U:O2'	1:AA:385:C:C2'	2.27	0.82
18:B3:1227:C:C1'	32:BM:132:ARG:NH2	2.27	0.82
18:B3:2565:C:C4	27:BH:171:ASP:CB	2.61	0.82
35:BP:3:LEU:CD1	35:BP:31:ILE:HD12	2.08	0.82
3:AB:107:THR:HB	3:AB:134:GLU:OE1	1.79	0.82
1:AA:1239:A:N3	7:AG:184:ARG:CZ	2.37	0.82
18:B3:882:A:H4'	45:BY:2:LYS:N	1.95	0.82
33:BN:25:PHE:CD1	33:BN:28:THR:HG21	2.14	0.82
42:B0:85:LEU:HB2	42:B0:92:TYR:CB	2.05	0.82
18:B3:750:A:H1'	23:BD:116:GLU:HG2	0.85	0.82
18:B3:646:G:C4'	23:BD:106:ARG:NH2	2.42	0.82
21:BB:241:ARG:HB3	21:BB:241:ARG:NH1	1.93	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:27:LYS:HD2	21:BB:122:ARG:CB	2.08	0.82
18:B3:1286:A:OP1	25:BF:155:ILE:HA	1.79	0.82
25:BF:172:LEU:HD13	25:BF:173:GLY:N	1.94	0.82
1:AA:190(E):U:H5''	16:AQ:130:ILE:CD1	2.07	0.82
22:BC:251:ILE:CG2	22:BC:259:VAL:HG11	2.09	0.82
22:BC:269:ARG:CZ	22:BC:269:ARG:HB3	2.09	0.82
18:B3:262:A:C5	26:BG:191:GLN:NE2	2.46	0.82
18:B3:1788:U:O2'	18:B3:2881:C:C2	2.32	0.82
18:B3:2337:G:C2'	29:BJ:127:TYR:HA	1.98	0.82
1:AA:860:A:C5'	3:AB:133:LYS:NZ	2.42	0.82
27:BH:107:ASP:O	27:BH:126:VAL:HG12	1.79	0.82
27:BH:107:ASP:HB2	27:BH:127:PRO:CA	2.09	0.82
35:BP:3:LEU:HD21	35:BP:32:ALA:HA	1.58	0.82
35:BP:41:ARG:NH1	35:BP:49:ILE:HG21	1.93	0.82
43:BW:59:TRP:CH2	43:BW:66:VAL:HG13	2.13	0.82
18:B3:2382:A:O4'	46:BZ:10:TYR:HD2	1.60	0.82
18:B3:196:G:OP2	31:BL:179:PHE:CE1	2.32	0.82
18:B3:2397:G:C8	41:BV:46:LYS:CE	2.62	0.82
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.14	0.82
1:AA:337:C:O4'	1:AA:1468:A:H2	1.57	0.82
33:BN:111:LEU:CG	33:BN:150:THR:HB	2.08	0.82
18:B3:553:G:H4'	42:B0:69:SER:OG	1.77	0.82
23:BD:120:ALA:O	23:BD:234:LEU:HD22	1.78	0.82
23:BD:75:ARG:HD3	23:BD:80:GLY:HA2	1.60	0.82
18:B3:1167:G:O2'	30:BK:110:ILE:HG22	1.77	0.82
18:B3:1163:G:C5	30:BK:51:LYS:HD2	1.98	0.82
18:B3:795:G:H2'	18:B3:817:G:N2	1.94	0.82
19:B4:98:C:O2'	25:BF:222:PHE:HE1	1.62	0.82
18:B3:2823:G:OP2	22:BC:135:LYS:HG2	1.78	0.82
22:BC:115:ARG:NH1	22:BC:115:ARG:HA	1.93	0.82
18:B3:2846:C:O3'	22:BC:172:GLN:OE1	1.97	0.82
18:B3:2334:C:O4'	29:BJ:113:ILE:N	2.11	0.82
4:AC:39:ARG:HB3	4:AC:46:GLU:HG3	1.60	0.82
5:AD:175:ARG:HG2	5:AD:191:ALA:HB2	1.60	0.82
8:AH:36:PHE:O	8:AH:39:VAL:HG12	1.79	0.82
1:AA:523:A:H2	12:AL:115:GLY:N	1.70	0.82
18:B3:1227:C:O4'	32:BM:132:ARG:NH1	2.12	0.82
35:BP:14:VAL:HG21	35:BP:22:TRP:HH2	1.43	0.82
18:B3:1231:A:N7	18:B3:2523:U:O2	2.11	0.82
18:B3:2459:G:OP1	46:BZ:86:ARG:HD3	1.78	0.82
18:B3:80:A:C5'	40:BU:74:TYR:CZ	2.62	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:60:ARG:CB	40:BU:103:LYS:HB2	2.10	0.82
6:AE:102:VAL:HG23	6:AE:189:LEU:HD23	0.84	0.82
15:AO:82:GLU:HG2	15:AO:85:GLU:CG	2.09	0.82
34:BO:95:GLU:HG3	34:BO:97:PRO:CD	2.08	0.82
18:B3:45:A:H2	18:B3:115:U:N3	1.77	0.82
13:AM:88:ARG:HH22	13:AM:115:ARG:HH11	1.24	0.82
18:B3:778:C:H5'	45:BY:9:LYS:HZ3	1.39	0.82
9:AI:100:SER:N	9:AI:105:LYS:HA	1.95	0.82
19:B4:49:G:C2	24:BE:93:THR:O	2.32	0.82
42:B0:96:ILE:CD1	42:B0:100:ILE:HG21	2.09	0.82
42:B0:72:LYS:N	42:B0:90:LYS:HD2	1.95	0.82
18:B3:671:A:H4'	23:BD:212:ASN:O	1.78	0.82
34:BO:33:TYR:CB	34:BO:36:LEU:HD12	2.08	0.82
45:BY:30:LYS:HE3	45:BY:30:LYS:C	1.98	0.82
18:B3:1167:G:H4'	30:BK:111:GLU:CA	1.98	0.82
25:BF:168:ILE:HA	25:BF:175:TYR:HA	1.62	0.82
22:BC:39:PRO:CB	22:BC:182:LEU:HB2	2.08	0.82
18:B3:2806:C:H5'	22:BC:343:THR:HG23	1.58	0.82
22:BC:52:MET:HE2	22:BC:53:THR:N	1.93	0.82
37:BR:117:PRO:HA	37:BR:135:VAL:HG13	1.60	0.82
18:B3:1704:G:N2	18:B3:2736:U:H4'	1.95	0.82
35:BP:94:TRP:HA	35:BP:97:ARG:HH22	1.45	0.82
7:AG:185:ASN:HB2	7:AG:191:GLU:CB	2.09	0.82
18:B3:2346:C:C1'	29:BJ:66:VAL:N	1.95	0.82
5:AD:87:SER:CA	5:AD:93:LEU:HD13	2.09	0.82
1:AA:33:A:N1	12:AL:47:SER:CB	2.41	0.82
1:AA:69:G:C2'	1:AA:171:A:C6	2.62	0.82
18:B3:762:C:N4	41:BV:23:LYS:CE	2.41	0.82
37:BR:74:MET:HB2	37:BR:75:PRO:HA	1.61	0.82
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.09	0.82
1:AA:923:A:O2'	1:AA:1398:A:N7	2.07	0.82
18:B3:2434:A:P	46:BZ:35:PHE:CG	2.72	0.82
1:AA:1309:G:H1	13:AM:96:LYS:N	1.77	0.82
17:AS:56:PHE:HB2	17:AS:80:MET:CE	2.10	0.82
18:B3:1694:G:N2	45:BY:5:PRO:CG	0.67	0.82
18:B3:618:G:O4'	42:B0:46:PHE:C	2.18	0.82
1:AA:1118:C:C5'	9:AI:118:ALA:CB	2.57	0.82
19:B4:7:G:OP2	24:BE:28:THR:CB	2.27	0.82
18:B3:2387:U:O3'	36:BQ:88:ARG:HB2	1.79	0.82
18:B3:676:C:O3'	23:BD:233:ASN:N	2.12	0.82
23:BD:168:LEU:HD12	23:BD:169:LYS:N	1.94	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2099:G:C3'	23:BD:68:ARG:CZ	2.54	0.82
21:BB:44:VAL:HG13	21:BB:58:ALA:HB1	1.61	0.82
18:B3:2806:C:C5'	22:BC:343:THR:HG23	2.08	0.82
37:BR:120:LYS:HG3	37:BR:121:GLU:OE2	1.78	0.82
18:B3:1809:G:C2	18:B3:2732:U:C5'	2.59	0.82
18:B3:2737:C:H3'	35:BP:60:SER:CA	1.70	0.82
18:B3:1816:C:O4'	18:B3:2746:A:N3	2.13	0.82
18:B3:2738:G:H8	35:BP:59:LYS:HZ1	0.84	0.82
29:BJ:155:LYS:O	29:BJ:158:THR:HG22	1.78	0.82
20:BA:55:LEU:HG	20:BA:167:VAL:CG2	2.06	0.82
27:BH:10:ILE:HD13	27:BH:11:GLU:N	1.94	0.82
32:BM:137:LEU:HD13	32:BM:139:LYS:N	1.94	0.82
35:BP:22:TRP:HB3	35:BP:50:VAL:O	1.78	0.82
4:AC:54:THR:CG2	4:AC:89:ARG:HG2	2.09	0.82
6:AE:177:ILE:HD11	6:AE:187:LEU:HB2	1.60	0.82
34:BO:38:ARG:NE	34:BO:38:ARG:HA	1.94	0.82
1:AA:989:C:C2	1:AA:1016:A:C4	2.66	0.82
1:AA:1220:G:OP2	17:AS:80:MET:HB2	1.78	0.82
1:AA:1225:A:C2	17:AS:126:VAL:HG23	2.14	0.82
45:BY:9:LYS:HE2	45:BY:10:ARG:CA	2.10	0.82
18:B3:540:A:C5'	42:B0:18:LYS:H	1.92	0.82
18:B3:621:C:C3'	42:B0:36:LYS:HD2	2.09	0.82
18:B3:629:A:O5'	42:B0:39:ASP:N	2.07	0.82
7:AG:111:ARG:NH2	9:AI:41:GLU:CG	2.43	0.82
33:BN:69:THR:CG2	33:BN:74:GLU:HB2	2.10	0.82
42:B0:97:ALA:O	42:B0:100:ILE:HD12	1.80	0.82
18:B3:27:U:C3'	18:B3:1319:G:C4'	2.42	0.82
18:B3:721:A:C2	34:BO:141:ARG:HG3	2.15	0.82
23:BD:228:ASN:O	23:BD:232:LEU:HD22	1.80	0.82
18:B3:1164:U:OP1	30:BK:50:THR:C	2.18	0.82
18:B3:1875:A:C5'	21:BB:127:ARG:HH22	1.67	0.82
21:BB:112:VAL:O	21:BB:133:VAL:HG12	1.79	0.82
21:BB:177:PRO:CB	47:B9:22:ARG:CD	2.57	0.82
18:B3:2820:A:OP1	22:BC:145:ARG:CZ	2.26	0.82
28:BI:151:GLY:HA2	28:BI:154:ARG:HE	1.43	0.82
28:BI:50:VAL:HG13	28:BI:166:ILE:CD1	2.10	0.82
18:B3:2518:C:OP1	28:BI:4:ARG:NH1	2.12	0.82
26:BG:138:VAL:CG2	26:BG:198:ALA:HB3	2.05	0.82
31:BL:150:ILE:H	31:BL:150:ILE:HD13	1.44	0.82
18:B3:1761:U:C2'	35:BP:80:ARG:NH2	2.43	0.82
1:AA:35:G:C4'	12:AL:128:SER:HB2	2.10	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:129:ARG:CB	27:BH:153:ASP:HB2	2.10	0.82
1:AA:1071:C:OP1	6:AE:90:ARG:CB	2.24	0.82
35:BP:31:ILE:HG22	35:BP:43:LEU:CD1	2.06	0.82
18:B3:2853:U:OP1	22:BC:170:LEU:HA	1.79	0.82
1:AA:913:A:P	12:AL:62:LYS:NZ	2.53	0.82
1:AA:545:C:C4'	5:AD:66:ASP:CG	2.32	0.82
1:AA:1504:G:OP2	1:AA:1508:G:OP2	1.58	0.82
18:B3:145:A:H4'	31:BL:137:GLN:NE2	1.92	0.82
4:AC:31:GLU:HG3	4:AC:57:VAL:CG2	2.10	0.82
1:AA:1220:G:H1'	17:AS:77:ARG:CA	1.86	0.82
13:AM:134:ARG:HB2	13:AM:136:GLN:CD	1.98	0.82
13:AM:15:LEU:CD2	13:AM:66:LEU:HD11	2.10	0.82
13:AM:29:VAL:HG21	13:AM:54:LEU:HD23	1.59	0.82
18:B3:778:C:O2'	45:BY:1:GLY:N	2.13	0.82
18:B3:843:A:OP2	33:BN:131:ALA:HB2	0.73	0.82
33:BN:12:LYS:HG3	33:BN:151:GLU:O	1.79	0.82
18:B3:894:A:H2	23:BD:98:MET:HB2	1.40	0.82
21:BB:101:LEU:HD22	21:BB:102:PRO:N	1.95	0.82
21:BB:106:VAL:CG2	21:BB:110:THR:HG21	2.08	0.82
16:AQ:109:HIS:HB2	16:AQ:130:ILE:HD13	1.60	0.82
18:B3:68:U:C3'	44:BX:55:LEU:HB3	2.09	0.82
18:B3:1733:A:O4'	22:BC:225:PHE:O	1.96	0.82
18:B3:2283:G:C6	28:BI:105:CYS:CB	2.63	0.82
22:BC:42:LEU:HA	22:BC:180:ILE:CD1	2.09	0.82
22:BC:75:VAL:HG22	22:BC:76:THR:H	1.44	0.82
31:BL:46:LYS:O	31:BL:49:ARG:HB3	1.79	0.82
18:B3:2737:C:C5	35:BP:61:ARG:CA	2.63	0.82
10:AJ:70:THR:C	14:AN:38:CYS:C	2.22	0.82
2:AT:110:ASP:OD2	18:B3:2697:A:H2	1.40	0.82
18:B3:1226:G:H5'	18:B3:1246:A:N6	1.94	0.82
32:BM:123:LEU:HD23	32:BM:125:VAL:H	1.45	0.82
18:B3:1382:G:HO2'	43:BW:26:LYS:HG3	1.41	0.82
46:BZ:65:LYS:HE3	46:BZ:65:LYS:H	1.44	0.82
1:AA:1496:C:O2	1:AA:1517:G:C4	1.89	0.82
41:BV:123:ILE:HD13	41:BV:123:ILE:H	1.44	0.82
1:AA:1505:G:O5'	1:AA:1506:U:C6	2.12	0.82
18:B3:897:A:OP1	41:BV:26:LYS:HB3	1.78	0.82
40:BU:14:LYS:HA	40:BU:17:LYS:HG2	1.61	0.82
18:B3:1470:A:H1'	31:BL:95:ARG:NH2	1.69	0.82
6:AE:183:VAL:HG12	6:AE:187:LEU:HD13	1.59	0.82
8:AH:48:GLU:HG2	8:AH:49:PHE:H	1.44	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:199:ASN:HB3	7:AG:207:SER:HB2	1.62	0.82
1:AA:987:G:C6	17:AS:77:ARG:NH1	2.47	0.82
9:AI:50:PRO:HG2	9:AI:84:ILE:CG2	2.09	0.82
19:B4:119:C:O2	24:BE:71:GLY:O	1.96	0.82
18:B3:1304:U:H3'	23:BD:194:ARG:HD2	1.59	0.82
19:B4:86:G:P	25:BF:218:LYS:NZ	2.52	0.82
18:B3:107:U:C6	44:BX:60:GLU:CA	2.58	0.82
18:B3:2829:G:P	22:BC:130:THR:HG23	2.20	0.82
18:B3:155:C:P	31:BL:190:TRP:CD2	2.72	0.82
26:BG:115:VAL:HG13	26:BG:117:GLU:N	1.95	0.82
26:BG:136:ASN:O	26:BG:139:VAL:HG12	1.78	0.82
18:B3:1714:C:C1'	18:B3:2744:G:H21	1.91	0.82
18:B3:2336:G:O6	29:BJ:118:SER:N	2.12	0.82
1:AA:5:U:O4	6:AE:172:PRO:CB	2.15	0.82
5:AD:102:GLU:HA	5:AD:190:GLU:CB	2.07	0.82
18:B3:2596:A:O2'	37:BR:74:MET:HE1	1.77	0.82
1:AA:1370:G:OP2	9:AI:123:PRO:HG2	1.79	0.82
18:B3:1227:C:H4'	32:BM:132:ARG:NH2	1.94	0.82
1:AA:676:A:H3'	11:AK:121:PRO:CD	2.09	0.82
1:AA:924:C:C1'	1:AA:1398:A:H2'	2.09	0.82
18:B3:243:A:N1	18:B3:377:C:O2	1.80	0.82
20:BA:90:LEU:HG	20:BA:124:LEU:HD11	1.61	0.82
8:AH:81:LYS:HG3	8:AH:86:GLU:HA	1.61	0.82
18:B3:1165:U:C2	30:BK:44:GLU:OE1	2.23	0.82
4:AC:28:LEU:HD12	4:AC:57:VAL:HG22	1.61	0.82
1:AA:839:U:H5'	1:AA:840:C:H5	1.42	0.82
23:BD:250:THR:HG23	23:BD:253:ALA:H	1.43	0.82
4:AC:94:GLY:HA3	4:AC:124:TYR:HE2	1.44	0.82
9:AI:100:SER:CA	9:AI:116:LEU:HB2	2.10	0.82
10:AJ:28:SER:HB3	10:AJ:34:LEU:HD21	1.61	0.82
24:BE:164:LYS:O	24:BE:167:SER:HB2	1.78	0.82
18:B3:2368:A:N7	24:BE:30:TYR:O	2.13	0.82
24:BE:64:ILE:HG23	24:BE:75:LEU:CD2	2.10	0.82
33:BN:41:THR:CB	33:BN:109:THR:HG23	2.10	0.82
33:BN:56:ALA:HB3	33:BN:73:LYS:O	1.80	0.82
18:B3:721:A:C2	34:BO:139:ILE:HG21	2.15	0.82
18:B3:1348:A:O2'	23:BD:39:THR:HA	1.76	0.82
47:B9:54:TRP:CZ2	47:B9:65:GLY:HA3	2.15	0.82
18:B3:1653:A:C6	21:BB:183:ARG:NH2	2.48	0.82
21:BB:195:TRP:CG	21:BB:196:PRO:HA	2.14	0.82
18:B3:1872:C:C5	21:BB:22:ARG:HG3	2.14	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:948:G:H21	36:BQ:100:LYS:HD3	1.45	0.82
19:B4:97:U:H3	25:BF:220:LYS:HD3	1.02	0.82
18:B3:1732:A:N1	18:B3:2840:A:C4	2.36	0.82
18:B3:2913:A:H2	22:BC:124:SER:OG	1.56	0.82
18:B3:2847:G:P	22:BC:174:LYS:NZ	2.53	0.82
18:B3:2654:C:O2'	22:BC:259:VAL:HG13	1.78	0.82
22:BC:88:VAL:N	22:BC:104:VAL:HG21	1.95	0.82
28:BI:90:ARG:HA	28:BI:90:ARG:CZ	2.10	0.82
22:BC:260:MET:HB2	32:BM:66:THR:HG21	1.56	0.82
31:BL:169:LYS:HA	31:BL:169:LYS:CE	2.10	0.82
18:B3:2737:C:H5	35:BP:61:ARG:NE	1.35	0.82
18:B3:1800:G:P	35:BP:69:LYS:HZ1	2.02	0.82
7:AG:112:ILE:CD1	7:AG:189:ILE:HB	2.10	0.82
29:BJ:71:ARG:HD2	29:BJ:74:LYS:CB	2.08	0.82
10:AJ:79:TRP:O	14:AN:39:ARG:NH1	2.12	0.82
1:AA:362:G:H4'	12:AL:77:ILE:O	1.77	0.82
1:AA:67:C:C2	1:AA:70:G:N7	2.47	0.82
18:B3:762:C:H41	41:BV:23:LYS:CE	1.92	0.82
2:AT:465:LYS:HZ1	2:AT:511:LEU:HG	1.36	0.82
37:BR:59:MET:CA	37:BR:74:MET:HG3	2.10	0.82
18:B3:2596:A:C5'	37:BR:73:VAL:HG12	2.10	0.82
43:BW:16:HIS:HB2	43:BW:30:ARG:CG	2.10	0.82
46:BZ:66:LYS:HA	46:BZ:86:ARG:HD3	1.60	0.82
1:AA:546:G:C4'	1:AA:548:G:O2'	2.27	0.82
41:BV:111:ILE:CD1	41:BV:129:VAL:HB	2.10	0.82
1:AA:111:G:N2	1:AA:389:A:H5'	1.95	0.82
8:AH:103:LEU:HD22	8:AH:124:ILE:HG22	1.61	0.82
1:AA:562:C:O2	12:AL:32:ARG:CD	2.26	0.82
30:BK:93:LYS:CD	30:BK:96:LYS:HB2	2.09	0.82
18:B3:1835:U:H5	18:B3:1840:A:N7	1.77	0.82
20:BA:198:TRP:O	20:BA:201:VAL:HG22	1.78	0.82
1:AA:1175:G:C5	9:AI:108:PHE:HB3	2.15	0.82
19:B4:47:A:OP2	24:BE:151:GLN:CG	2.26	0.82
18:B3:1370:G:C8	33:BN:27:ASN:OD1	2.32	0.82
33:BN:35:ILE:HA	33:BN:38:TRP:CD1	2.15	0.82
18:B3:34:C:O2'	23:BD:49:TYR:HA	1.80	0.82
34:BO:81:VAL:CG1	34:BO:138:LEU:HB2	2.09	0.82
34:BO:81:VAL:HG12	34:BO:138:LEU:CB	2.09	0.82
21:BB:103:LEU:HD12	21:BB:138:HIS:NE2	1.95	0.82
21:BB:224:ILE:CD1	21:BB:228:ALA:HB2	2.08	0.82
1:AA:190(E):U:H5''	16:AQ:130:ILE:CG1	2.09	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:68:U:C4'	44:BX:51:ILE:CD1	2.53	0.82
22:BC:49:LYS:HD2	22:BC:50:ALA:O	1.79	0.82
18:B3:1002:G:C2'	28:BI:90:ARG:HH22	1.65	0.82
26:BG:127:LYS:HB2	26:BG:128:PRO:HD3	1.60	0.82
18:B3:2336:G:P	29:BJ:103:PHE:HE2	2.03	0.82
18:B3:2337:G:P	29:BJ:101:PHE:HB3	2.19	0.82
10:AJ:70:THR:HG1	14:AN:36:ASN:CB	1.75	0.82
3:AB:70:GLU:CG	3:AB:118:ARG:HG3	2.10	0.82
8:AH:25:LEU:HD22	8:AH:52:ILE:HD11	1.62	0.82
1:AA:363:A:H61	12:AL:44:GLY:HA3	1.44	0.82
1:AA:552:U:P	12:AL:108:GLY:O	2.38	0.82
1:AA:67:C:H2'	1:AA:171:A:C2	2.15	0.82
37:BR:28:ASN:HB3	37:BR:31:ALA:HB2	1.61	0.82
18:B3:2795:C:O2'	27:BH:156:GLN:CG	2.24	0.82
1:AA:712:A:N6	11:AK:124:SER:HA	1.95	0.82
40:BU:35:LEU:HD23	40:BU:39:LEU:O	1.80	0.82
18:B3:907:A:H8	18:B3:1328:A:C1'	1.70	0.82
18:B3:697:G:H3'	41:BV:112:LEU:CD1	2.10	0.82
18:B3:730:G:H5''	41:BV:132:LEU:CD1	2.08	0.82
1:AA:1418:A:H2	18:B3:1989:G:H21	1.21	0.82
11:AK:42:THR:CG2	11:AK:58:ALA:HB1	2.09	0.82
18:B3:1147:C:C2'	18:B3:1148:C:H5''	2.10	0.82
1:AA:1316:G:N2	17:AS:49:MET:SD	2.53	0.81
19:B4:35:C:C2	24:BE:203:HIS:CE1	2.68	0.81
36:BQ:83:ARG:HG2	36:BQ:84:TYR:H	1.42	0.81
1:AA:318:G:C2	1:AA:1434:A:N1	2.42	0.81
23:BD:177:LEU:HA	23:BD:205:LEU:HD11	1.62	0.81
21:BB:20:ARG:HG3	21:BB:21:LEU:CD2	2.08	0.81
18:B3:1900:A:P	21:BB:225:SER:HA	2.19	0.81
18:B3:69:A:H5''	44:BX:52:ALA:CB	2.10	0.81
22:BC:221:LYS:HG2	22:BC:331:ARG:HD3	1.62	0.81
28:BI:101:LYS:HD2	28:BI:103:LEU:HD23	1.61	0.81
28:BI:50:VAL:HG23	28:BI:137:SER:HB2	1.61	0.81
31:BL:168:LYS:HE2	31:BL:169:LYS:CG	2.10	0.81
31:BL:26:VAL:HG11	31:BL:122:GLN:OE1	1.80	0.81
35:BP:91:GLN:HA	35:BP:94:TRP:CE3	2.16	0.81
3:AB:122:VAL:HG11	3:AB:132:ILE:HD11	1.60	0.81
1:AA:551:U:O3'	12:AL:107:PHE:HA	1.80	0.81
1:AA:364:A:OP2	12:AL:50:LYS:HE2	1.80	0.81
18:B3:1139:U:O4'	27:BH:62:ARG:NE	2.13	0.81
32:BM:39:GLU:N	32:BM:137:LEU:HD23	1.94	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1497:G:H2'	1:AA:1519:A:N6	1.95	0.81
7:AG:110:VAL:HG21	9:AI:43:LEU:HB2	1.62	0.81
9:AI:39:GLU:O	9:AI:42:ILE:HG12	1.79	0.81
10:AJ:44:ASN:HB3	10:AJ:102:ARG:HG3	1.60	0.81
19:B4:35:C:O2	24:BE:185:PHE:HB3	1.04	0.81
33:BN:94:LEU:HD13	33:BN:95:GLN:N	1.94	0.81
18:B3:1310:U:OP2	23:BD:180:VAL:HA	1.81	0.81
18:B3:35:U:H5''	23:BD:104:THR:CG2	2.09	0.81
23:BD:256:LYS:HG2	23:BD:259:GLN:HB3	1.62	0.81
18:B3:1358:A:H3'	23:BD:92:MET:HG2	1.59	0.81
18:B3:1651:C:C5	47:B9:50:ALA:HB2	2.15	0.81
21:BB:82:HIS:CG	47:B9:62:THR:O	2.32	0.81
21:BB:104:GLY:HA2	21:BB:138:HIS:HE1	1.44	0.81
18:B3:1899:C:O4'	21:BB:223:THR:HG23	1.80	0.81
18:B3:107:U:H5''	44:BX:58:ILE:C	2.01	0.81
28:BI:52:LEU:HG	28:BI:136:PHE:C	2.00	0.81
26:BG:142:ILE:HD12	26:BG:143:GLU:N	1.95	0.81
26:BG:203:ARG:HD2	26:BG:210:LEU:HB3	1.61	0.81
18:B3:921:G:O3'	41:BV:41:ARG:HG3	1.80	0.81
1:AA:11:G:O2'	1:AA:525:C:O2	1.98	0.81
1:AA:67:C:N3	1:AA:70:G:C5	2.48	0.81
18:B3:1118:A:C2	18:B3:1226:G:OP2	2.29	0.81
18:B3:1227:C:H4'	32:BM:133:LYS:HE3	1.61	0.81
18:B3:1227:C:H1'	32:BM:132:ARG:HH22	1.45	0.81
1:AA:1405:G:N9	1:AA:1519:A:O4'	2.13	0.81
18:B3:80:A:C4'	40:BU:73:VAL:CG1	2.52	0.81
1:AA:293:G:H5'	1:AA:610:G:C5	2.15	0.81
1:AA:436:C:H2'	1:AA:496:A:C2'	2.10	0.81
41:BV:72:LEU:CD2	41:BV:77:LEU:HD11	2.09	0.81
2:AT:466:THR:HG21	2:AT:516:PRO:CG	2.08	0.81
18:B3:499:G:C4'	33:BN:19:SER:OG	2.28	0.81
32:BM:26:LEU:CD2	32:BM:101:LEU:HD12	2.10	0.81
6:AE:105:ASP:HB3	6:AE:142:TYR:CE1	2.15	0.81
1:AA:1318:A:HO2'	17:AS:84:ILE:H	1.28	0.81
13:AM:100:THR:C	13:AM:105:VAL:HG21	2.01	0.81
18:B3:843:A:C5'	33:BN:130:ARG:HG3	2.10	0.81
18:B3:2060:A:C4'	42:B0:25:TYR:CD1	2.63	0.81
9:AI:58:LYS:HD2	9:AI:88:LEU:CD1	2.11	0.81
24:BE:107:ARG:H	24:BE:110:LEU:HB2	1.45	0.81
24:BE:64:ILE:CD1	24:BE:144:VAL:HG11	2.11	0.81
19:B4:119:C:H5'	24:BE:68:THR:OG1	1.79	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:319:G:H1'	1:AA:1434:A:C6	2.16	0.81
33:BN:14:ALA:O	33:BN:149:VAL:HG12	1.80	0.81
34:BO:42:ALA:HB3	34:BO:134:GLY:H	1.45	0.81
23:BD:181:LEU:HD21	23:BD:185:LYS:CG	2.10	0.81
34:BO:25:TYR:O	34:BO:29:LEU:HG	1.80	0.81
18:B3:763:C:H1'	23:BD:86:GLN:OE1	1.79	0.81
45:BY:27:HIS:HB2	45:BY:30:LYS:HG3	1.62	0.81
18:B3:472:A:C3'	45:BY:48:TRP:HH2	1.89	0.81
18:B3:1163:G:N2	30:BK:52:GLU:OE1	2.13	0.81
21:BB:182:GLY:HA2	21:BB:185:PHE:HD1	1.43	0.81
1:AA:190(D):U:C2	16:AQ:111:SER:N	2.46	0.81
18:B3:2038:A:OP1	37:BR:47:ASN:HB2	1.78	0.81
22:BC:176:HIS:O	22:BC:177:LEU:HD22	1.78	0.81
22:BC:184:GLY:HA3	22:BC:190:LYS:CD	2.09	0.81
22:BC:247:LYS:HE2	22:BC:247:LYS:H	1.44	0.81
28:BI:60:LEU:HD13	28:BI:159:PHE:HE1	1.45	0.81
31:BL:161:ARG:HG3	31:BL:168:LYS:HZ1	1.45	0.81
31:BL:22:GLN:HE21	31:BL:25:ARG:HG2	1.44	0.81
31:BL:22:GLN:CA	31:BL:25:ARG:HG3	2.10	0.81
31:BL:69:ASN:ND2	31:BL:92:LYS:HB3	1.95	0.81
18:B3:1805:G:O2'	18:B3:2875:A:C8	2.32	0.81
18:B3:1809:G:N2	18:B3:2732:U:O4'	2.13	0.81
18:B3:1812:G:O4'	18:B3:2732:U:H4'	1.80	0.81
18:B3:921:G:N3	41:BV:40:HIS:HB2	1.96	0.81
3:AB:33:GLU:HB3	3:AB:34:PRO:HD3	1.62	0.81
3:AB:75:ILE:CD1	3:AB:97:ILE:HB	2.10	0.81
8:AH:89:THR:O	8:AH:121:SER:HB3	1.79	0.81
6:AE:219:ASN:H	8:AH:129:TYR:HD2	0.85	0.81
18:B3:2558:G:N3	18:B3:2799:A:O2'	2.12	0.81
32:BM:118:VAL:HG13	32:BM:119:VAL:O	1.80	0.81
32:BM:118:VAL:HG22	32:BM:119:VAL:H	1.44	0.81
18:B3:2565:C:C4	27:BH:171:ASP:HB3	2.14	0.81
18:B3:2779:G:HO2'	27:BH:163:GLN:HB3	1.44	0.81
35:BP:41:ARG:NH1	35:BP:44:VAL:HB	1.95	0.81
43:BW:8:THR:HG22	43:BW:73:ARG:NH1	1.96	0.81
1:AA:1377:A:C5	7:AG:76:TYR:CD2	2.68	0.81
41:BV:81:ILE:CG1	41:BV:86:ARG:HD2	2.10	0.81
41:BV:75:ASP:HA	41:BV:78:TRP:CD1	2.15	0.81
1:AA:1505:G:C8	1:AA:1506:U:H2'	2.14	0.81
1:AA:924:C:C6	1:AA:1398:A:C2	2.68	0.81
18:B3:1772:C:C5'	47:B9:15:VAL:CG1	2.57	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:9:ARG:CZ	29:BJ:9:ARG:HA	2.10	0.81
18:B3:2581:U:O4'	18:B3:2600:A:H2	1.60	0.81
20:BA:196:LYS:HG3	20:BA:199:GLN:HB2	1.62	0.81
13:AM:75:ASN:O	13:AM:83:ALA:HB1	1.79	0.81
36:BQ:39:ILE:HD13	36:BQ:39:ILE:H	1.45	0.81
3:AB:116:GLU:OE2	6:AE:133:LEU:HG	1.80	0.81
13:AM:100:THR:HG23	13:AM:105:VAL:HG22	1.62	0.81
1:AA:1298:C:OP1	13:AM:57:ARG:N	2.13	0.81
1:AA:1330:U:O2'	13:AM:93:THR:CG2	2.28	0.81
18:B3:541:C:H6	42:B0:15:LYS:CG	1.67	0.81
24:BE:106:ALA:HA	24:BE:110:LEU:CD1	2.09	0.81
33:BN:91:GLN:CA	33:BN:94:LEU:HD12	2.09	0.81
18:B3:449:A:N6	18:B3:1349:G:C4'	2.43	0.81
18:B3:1352:A:P	23:BD:108:TRP:HE1	2.04	0.81
23:BD:168:LEU:O	23:BD:171:VAL:HG22	1.79	0.81
34:BO:113:LYS:HA	34:BO:113:LYS:NZ	1.93	0.81
18:B3:710:G:OP1	34:BO:43:PRO:CD	2.27	0.81
18:B3:710:G:C5'	34:BO:44:PHE:CD2	2.57	0.81
47:B9:56:CYS:CB	47:B9:60:LYS:HA	2.10	0.81
1:AA:190(D):U:O4	16:AQ:112:PRO:HG2	1.79	0.81
18:B3:2310:G:C2'	28:BI:119:TRP:CZ2	2.64	0.81
18:B3:2819:C:C3'	22:BC:100:SER:C	2.32	0.81
18:B3:2671:U:O4'	22:BC:179:GLU:HB3	1.79	0.81
22:BC:26:ALA:HA	22:BC:27:ARG:NH2	1.94	0.81
28:BI:51:HIS:O	28:BI:52:LEU:HD22	1.80	0.81
18:B3:2134:G:N2	18:B3:2241:C:H42	1.78	0.81
26:BG:110:LYS:H	26:BG:118:GLY:H	1.28	0.81
18:B3:2734:G:P	35:BP:79:LYS:HZ2	2.01	0.81
7:AG:116:THR:HG22	7:AG:190:ALA:O	1.79	0.81
20:BA:55:LEU:CD1	20:BA:158:GLN:N	2.39	0.81
18:B3:110:C:O3'	18:B3:123:U:O4	1.99	0.81
39:BT:125:LEU:HD13	39:BT:129:TYR:HB3	1.60	0.81
3:AB:145:LEU:HD12	3:AB:159:ILE:O	1.80	0.81
6:AE:138:ILE:CB	6:AE:217:ILE:HD11	2.09	0.81
1:AA:59:A:H4'	1:AA:388:G:C2'	2.10	0.81
27:BH:170:LYS:HG2	27:BH:171:ASP:H	1.46	0.81
32:BM:44:GLY:H	32:BM:134:TYR:HD1	1.25	0.81
35:BP:8:ARG:NH1	35:BP:18:LYS:HD3	1.96	0.81
43:BW:73:ARG:CZ	43:BW:73:ARG:HA	2.09	0.81
40:BU:86:THR:CG2	40:BU:97:ILE:HG12	2.10	0.81
1:AA:436:C:C5'	1:AA:496:A:OP1	2.27	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:730:G:C5'	41:BV:132:LEU:CD1	2.57	0.81
18:B3:1153:C:C4	18:B3:1155:G:N3	2.47	0.81
1:AA:754:C:C1'	15:AO:127:TYR:CD2	2.63	0.81
21:BB:88:TYR:HE2	21:BB:94:SER:H	1.27	0.81
1:AA:1300:G:H5'	13:AM:30:TYR:CG	2.14	0.81
19:B4:7:G:N7	24:BE:22:ARG:CD	2.43	0.81
1:AA:319:G:C4	1:AA:1434:A:H2	1.46	0.81
33:BN:117:GLN:HB3	33:BN:146:GLU:H	1.43	0.81
18:B3:1163:G:O3'	30:BK:50:THR:C	2.08	0.81
30:BK:20:GLY:HA3	30:BK:54:LYS:HE2	1.63	0.81
30:BK:76:SER:O	30:BK:80:LEU:HG	1.79	0.81
18:B3:2837:U:N3	22:BC:334:ILE:HA	1.95	0.81
22:BC:158:ARG:HA	22:BC:182:LEU:HD13	1.62	0.81
22:BC:39:PRO:CG	22:BC:182:LEU:HB2	2.11	0.81
22:BC:302:LYS:HE3	22:BC:305:THR:N	1.95	0.81
18:B3:2862:G:O5'	22:BC:364:PHE:CZ	2.33	0.81
37:BR:18:PRO:HB3	37:BR:49:LEU:CD1	2.10	0.81
26:BG:161:LEU:CD2	31:BL:3:TYR:CE2	2.63	0.81
18:B3:251:C:C1'	31:BL:139:LYS:NZ	2.40	0.81
31:BL:17:VAL:HA	31:BL:20:PHE:CD2	2.15	0.81
18:B3:1788:U:H3'	18:B3:2881:C:C2'	1.83	0.81
35:BP:104:LEU:O	35:BP:105:LEU:HD22	1.81	0.81
29:BJ:74:LYS:O	29:BJ:74:LYS:HD3	1.80	0.81
29:BJ:83:LEU:HD12	29:BJ:166:TYR:CE1	2.15	0.81
1:AA:1068:G:H5'	1:AA:1388:C:OP1	1.79	0.81
1:AA:1406:U:C1'	1:AA:1518:A:C4'	2.55	0.81
40:BU:14:LYS:HE3	40:BU:18:ALA:HB3	1.62	0.81
1:AA:690:G:OP1	11:AK:23:ASN:OD1	1.98	0.81
18:B3:918:G:H2'	41:BV:44:MET:SD	2.21	0.81
29:BJ:9:ARG:HA	29:BJ:9:ARG:NH1	1.96	0.81
30:BK:116:MET:SD	30:BK:119:LYS:HE2	2.20	0.81
1:AA:1016:A:H1'	1:AA:1216:G:N2	1.94	0.81
17:AS:124:THR:CG2	17:AS:126:VAL:HG22	2.11	0.81
18:B3:1304:U:H2'	23:BD:194:ARG:CB	2.09	0.81
23:BD:50:ALA:HB2	23:BD:104:THR:N	1.96	0.81
47:B9:53:ILE:HD13	47:B9:54:TRP:N	1.95	0.81
18:B3:1830:C:N4	21:BB:180:LYS:HD2	1.94	0.81
21:BB:185:PHE:O	21:BB:188:TYR:HB3	1.81	0.81
18:B3:693:A:H4'	41:BV:59:TYR:OH	1.79	0.81
18:B3:1285:U:O3'	25:BF:155:ILE:HG12	1.81	0.81
18:B3:2819:C:H5'	22:BC:99:ARG:HH21	1.44	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:967:U:H1'	28:BI:34:TYR:CE2	2.03	0.81
22:BC:31:PHE:HB3	22:BC:32:PRO:HD2	1.60	0.81
22:BC:89:VAL:HG23	22:BC:91:TYR:HE2	1.46	0.81
28:BI:38:LYS:CE	28:BI:41:ALA:HB3	2.10	0.81
37:BR:15:LEU:HD13	37:BR:53:SER:HB2	1.62	0.81
18:B3:433:C:H5'	31:BL:149:TRP:CE3	2.14	0.81
31:BL:187:ARG:HB3	31:BL:187:ARG:CZ	2.10	0.81
38:BS:52:THR:HB	38:BS:55:PHE:CB	2.10	0.81
5:AD:83:VAL:HG22	5:AD:97:LEU:HD11	1.60	0.81
5:AD:92:LYS:CA	6:AE:174:GLY:CA	2.56	0.81
2:AT:145:GLN:N	2:AT:483:PHE:HE2	1.78	0.81
27:BH:90:MET:SD	27:BH:182:SER:HB2	2.20	0.81
27:BH:43:VAL:HG12	32:BM:127:ARG:HD3	1.63	0.81
1:AA:777:A:O2'	11:AK:126:ARG:HA	1.66	0.81
35:BP:7:LYS:NZ	35:BP:8:ARG:HD2	1.95	0.81
45:BY:44:ARG:HB3	45:BY:44:ARG:NH1	1.96	0.81
15:AO:77:ASN:HB3	15:AO:85:GLU:HG3	1.62	0.81
18:B3:283:U:H3'	18:B3:284:C:C6	2.14	0.81
11:AK:10:SER:HA	11:AK:73:VAL:O	1.79	0.81
1:AA:1318:A:C1'	17:AS:54:ALA:CB	2.56	0.81
1:AA:1319:A:OP1	17:AS:84:ILE:HB	1.81	0.81
1:AA:1250:A:C5'	9:AI:71:GLY:N	2.43	0.81
19:B4:47:A:OP1	24:BE:151:GLN:HG2	1.79	0.81
24:BE:16:PHE:CA	36:BQ:19:PHE:HZ	1.69	0.81
1:AA:318:G:O2'	1:AA:1468:A:C5'	2.27	0.81
33:BN:67:GLY:HA2	33:BN:79:LYS:CB	2.09	0.81
33:BN:67:GLY:CA	33:BN:79:LYS:HB3	2.09	0.81
18:B3:664:U:C4'	23:BD:114:HIS:HB2	2.09	0.81
18:B3:658:C:H5'	23:BD:119:TYR:HH	1.44	0.81
47:B9:20:SER:C	47:B9:22:ARG:HD3	2.01	0.81
21:BB:179:LEU:HD11	47:B9:22:ARG:HH11	1.42	0.81
21:BB:195:TRP:CH2	21:BB:197:LYS:HB3	2.16	0.81
21:BB:47:ILE:H	21:BB:47:ILE:HD13	1.46	0.81
19:B4:87:U:N1	25:BF:217:ARG:NH2	2.29	0.81
18:B3:67:A:N9	39:BT:60:LYS:NZ	2.25	0.81
18:B3:2837:U:C6	22:BC:333:ARG:HD3	2.10	0.81
22:BC:331:ARG:C	22:BC:332:LYS:HE2	2.01	0.81
37:BR:95:PHE:CG	38:BS:21:PHE:HD1	1.95	0.81
26:BG:217:ILE:HD13	26:BG:218:ASP:N	1.96	0.81
31:BL:50:LEU:CD2	31:BL:117:SER:HA	2.10	0.81
18:B3:1788:U:O2'	18:B3:2882:G:C5	2.33	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2334:C:O2	29:BJ:114:LYS:O	1.97	0.81
20:BA:63:MET:CE	20:BA:159:LEU:O	2.29	0.81
18:B3:1675:C:H5'	39:BT:113:VAL:O	1.81	0.81
1:AA:860:A:O2'	8:AH:18:LYS:HD2	1.80	0.81
5:AD:100:LYS:HB3	5:AD:191:ALA:CB	2.10	0.81
27:BH:162:GLN:CD	27:BH:181:VAL:HG12	2.01	0.81
27:BH:27:VAL:HG11	27:BH:82:VAL:HB	1.63	0.81
18:B3:2552:C:C1'	18:B3:2553:A:H2'	2.06	0.81
18:B3:2081:A:O3'	32:BM:69:PRO:HB3	1.80	0.81
20:BA:179:LEU:HA	20:BA:182:GLN:NE2	1.94	0.81
28:BI:24:ARG:HG2	28:BI:25:ALA:H	1.45	0.81
2:AT:103:ILE:HD12	2:AT:122:THR:HG22	1.61	0.81
1:AA:988:G:C6	1:AA:1015:A:C4	2.68	0.81
1:AA:1220:G:OP1	17:AS:80:MET:HE2	1.78	0.81
1:AA:1300:G:C4'	13:AM:30:TYR:CE1	2.45	0.81
1:AA:1302:U:C5'	13:AM:54:LEU:HD21	2.09	0.81
9:AI:100:SER:HA	9:AI:116:LEU:HB2	1.63	0.81
24:BE:148:ILE:CG2	24:BE:159:VAL:HG11	2.10	0.81
19:B4:47:A:C3'	24:BE:160:PHE:HE2	1.94	0.81
24:BE:43:LYS:O	24:BE:117:GLU:HA	1.80	0.81
36:BQ:72:VAL:HG13	36:BQ:74:VAL:HG23	1.62	0.81
1:AA:318:G:C1'	1:AA:1468:A:C4'	2.58	0.81
23:BD:181:LEU:HB2	23:BD:202:ARG:HA	1.63	0.81
23:BD:196:ARG:HG3	23:BD:198:TRP:CE2	2.16	0.81
18:B3:1180:C:O2	30:BK:106:LEU:O	1.98	0.81
30:BK:19:GLY:HA2	30:BK:50:THR:HG21	1.62	0.81
18:B3:795:G:N2	18:B3:817:G:H2'	1.94	0.81
21:BB:171:GLY:HA3	47:B9:67:ALA:CB	2.11	0.81
21:BB:173:ARG:CZ	21:BB:174:VAL:HG13	2.11	0.81
18:B3:1731:C:OP1	18:B3:2839:C:O2	1.99	0.81
37:BR:78:VAL:HG21	37:BR:81:GLN:HE22	1.45	0.81
18:B3:2135:A:H2	18:B3:2239:C:C4	1.94	0.81
18:B3:1812:G:H4'	18:B3:2732:U:O2'	1.81	0.81
18:B3:1705:C:C5'	35:BP:62:THR:OG1	2.29	0.81
18:B3:1787:C:P	35:BP:73:ARG:NH2	2.54	0.81
18:B3:920:C:O5'	41:BV:39:HIS:C	2.07	0.81
29:BJ:74:LYS:HA	29:BJ:77:GLU:OE2	1.79	0.81
4:AC:11:VAL:HB	14:AN:32:LYS:O	1.80	0.81
14:AN:20:CYS:HB2	14:AN:29:LEU:CG	2.10	0.81
10:AJ:70:THR:CA	14:AN:42:PHE:H	1.92	0.81
3:AB:88:PHE:HE1	3:AB:174:TYR:HB3	1.46	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:92:THR:HG22	3:AB:181:LEU:CD2	2.11	0.81
5:AD:86:LEU:CD1	5:AD:96:VAL:HG22	2.10	0.81
18:B3:2578:G:C2	18:B3:2800:A:C2'	2.63	0.81
27:BH:34:LEU:HD21	27:BH:149:ASN:CB	2.08	0.81
32:BM:123:LEU:HD22	32:BM:124:ARG:N	1.95	0.81
35:BP:22:TRP:HE3	35:BP:51:LYS:HB2	1.44	0.81
40:BU:35:LEU:HD21	40:BU:45:ILE:CG2	2.11	0.81
5:AD:55:ALA:CB	5:AD:59:LEU:HD23	2.11	0.81
41:BV:74:LEU:HG	41:BV:117:ILE:CG1	2.11	0.81
1:AA:121:C:C5	1:AA:235:C:C5	2.68	0.81
18:B3:112:G:O2'	18:B3:114:A:H8	1.44	0.81
18:B3:1529:G:C4'	21:BB:69:ARG:NH1	2.43	0.81
4:AC:159:SER:HA	4:AC:165:ASP:OD1	1.81	0.81
7:AG:83:LYS:HD3	7:AG:83:LYS:H	1.44	0.81
18:B3:1106:A:H8	18:B3:1106:A:H5'	1.46	0.81
1:AA:988:G:C1'	1:AA:1014:A:C4'	2.55	0.81
1:AA:989:C:C6	1:AA:1016:A:C4	2.69	0.81
1:AA:1303:C:N4	13:AM:40:ARG:CZ	2.44	0.81
18:B3:882:A:H5'	45:BY:2:LYS:HA	1.62	0.81
9:AI:18:VAL:HG22	9:AI:67:ARG:HB3	1.62	0.81
24:BE:50:ARG:O	24:BE:64:ILE:HD12	1.81	0.81
33:BN:69:THR:HG21	33:BN:74:GLU:HB2	1.61	0.81
18:B3:2050:G:H4'	33:BN:84:ALA:HB2	0.83	0.81
33:BN:17:ARG:CZ	33:BN:93:LEU:HA	2.11	0.81
23:BD:144:ILE:CG2	23:BD:145:PRO:HD3	2.11	0.81
18:B3:721:A:P	34:BO:71:LEU:HB3	2.20	0.81
18:B3:1181:A:H2	30:BK:105:GLN:HB3	1.00	0.81
21:BB:134:ILE:CD1	21:BB:136:ILE:HG12	2.11	0.81
18:B3:782:G:C3'	21:BB:189:ARG:NH1	2.43	0.81
19:B4:97:U:O2'	25:BF:223:ILE:O	1.99	0.81
18:B3:2489:G:H2'	18:B3:2490:A:C5	2.15	0.81
22:BC:112:GLU:HG2	22:BC:173:LYS:O	1.80	0.81
22:BC:42:LEU:CD2	22:BC:202:VAL:HG21	2.10	0.81
31:BL:21:LEU:HD12	31:BL:22:GLN:N	1.96	0.81
31:BL:69:ASN:OD1	31:BL:92:LYS:HD2	1.81	0.81
18:B3:2737:C:C5	35:BP:61:ARG:CD	2.63	0.81
18:B3:898:G:H5''	41:BV:25:ARG:CD	2.11	0.81
18:B3:2337:G:N7	29:BJ:127:TYR:HE1	1.62	0.81
20:BA:16:LEU:HD13	20:BA:207:LYS:HA	1.63	0.81
18:B3:1676:G:C8	39:BT:113:VAL:HG22	2.16	0.81
10:AJ:73:GLY:N	14:AN:38:CYS:SG	2.42	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:67:PRO:CG	37:BR:69:LEU:HD23	2.11	0.81
18:B3:1115:U:H4'	18:B3:1223:G:N2	1.96	0.81
27:BH:23:ARG:NH1	27:BH:39:LYS:HG2	1.96	0.81
35:BP:8:ARG:NH1	35:BP:8:ARG:HA	1.96	0.81
18:B3:2408:A:O3'	46:BZ:18:LYS:HD2	1.79	0.81
18:B3:2081:A:H1'	32:BM:69:PRO:CG	2.08	0.81
11:AK:41:VAL:HG23	11:AK:44:GLY:H	1.46	0.81
3:AB:48:ASN:ND2	3:AB:51:LYS:HD2	1.95	0.81
15:AO:82:GLU:CB	15:AO:85:GLU:HB2	2.10	0.81
18:B3:2370:A:N1	36:BQ:49:GLN:NE2	2.29	0.81
15:AO:65:ILE:CG2	15:AO:69:LYS:HB3	2.11	0.81
1:AA:1131:G:H1	1:AA:1143:G:H21	1.27	0.81
9:AI:98:GLU:HB3	9:AI:103:GLU:HA	1.63	0.81
18:B3:2369:A:OP1	24:BE:31:TYR:CE2	2.30	0.81
24:BE:75:LEU:CD1	24:BE:113:LEU:HD21	2.10	0.81
18:B3:2050:G:O5'	33:BN:82:TRP:CE3	2.25	0.81
33:BN:101:ALA:HB1	33:BN:106:LEU:CD2	2.12	0.81
34:BO:62:VAL:HG21	34:BO:87:VAL:HA	1.63	0.81
18:B3:1359:U:H4'	23:BD:91:ASN:CG	1.99	0.81
21:BB:116:GLU:HB2	21:BB:121:ASP:OD1	1.81	0.81
18:B3:1874:U:N3	21:BB:124:ALA:HB1	1.96	0.81
22:BC:332:LYS:HE3	22:BC:333:ARG:NH2	1.96	0.81
22:BC:46:LEU:HD23	22:BC:336:THR:C	2.02	0.81
28:BI:146:ASP:HB2	28:BI:149:VAL:HG23	1.62	0.81
18:B3:2135:A:N3	18:B3:2240:U:O4	2.14	0.81
26:BG:115:VAL:HG11	26:BG:213:LEU:CD1	2.09	0.81
26:BG:130:ALA:HB1	26:BG:201:GLU:HG2	1.61	0.81
31:BL:13:LYS:HA	31:BL:18:LEU:CD2	2.07	0.81
18:B3:1795:G:O6	35:BP:96:ARG:NH1	2.13	0.81
18:B3:1816:C:N4	18:B3:2733:U:O2	2.13	0.81
4:AC:12:ALA:O	4:AC:15:VAL:HG12	1.81	0.81
1:AA:560:U:C2	1:AA:563:A:C4'	2.64	0.81
3:AB:154:PHE:CZ	8:AH:19:THR:O	2.34	0.81
3:AB:56:LEU:HD21	3:AB:159:ILE:HG23	1.63	0.81
1:AA:33:A:N3	12:AL:47:SER:HB3	1.94	0.81
2:AT:110:ASP:OD2	18:B3:2697:A:C2	2.26	0.81
2:AT:111:PHE:CE2	2:AT:483:PHE:CE2	2.69	0.81
18:B3:1228:C:H5"	32:BM:47:PHE:CE1	2.16	0.81
27:BH:18:VAL:HG11	27:BH:48:VAL:HG22	1.63	0.81
27:BH:59:ASN:ND2	27:BH:64:HIS:HB3	1.95	0.81
1:AA:938:A:H2	7:AG:76:TYR:HD1	1.24	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:208:TYR:CE2	7:AG:212:LYS:HE3	2.15	0.81
30:BK:94:LYS:CD	30:BK:138:SER:HA	2.11	0.81
9:AI:52:LEU:HG	9:AI:57:ASP:OD2	1.81	0.81
13:AM:122:HIS:CG	17:AS:118:GLU:HB3	2.15	0.80
13:AM:85:PHE:HA	13:AM:100:THR:CB	2.11	0.80
9:AI:99:GLN:CD	9:AI:113:ARG:HB2	2.01	0.80
19:B4:47:A:H5'	24:BE:154:THR:N	1.96	0.80
24:BE:41:LYS:HG3	24:BE:145:PHE:CD1	2.16	0.80
36:BQ:87:LYS:O	36:BQ:87:LYS:HD2	1.80	0.80
18:B3:1306:U:H5	23:BD:194:ARG:HH22	1.18	0.80
34:BO:93:ILE:HD13	34:BO:116:LYS:HZ3	1.45	0.80
23:BD:75:ARG:HG2	23:BD:81:THR:H	1.46	0.80
18:B3:1180:C:O2	30:BK:110:ILE:HG13	1.81	0.80
21:BB:17:SER:CB	21:BB:192:ARG:HG3	2.05	0.80
18:B3:72:C:H5''	44:BX:49:LYS:HZ1	1.44	0.80
28:BI:38:LYS:HE2	28:BI:41:ALA:CB	2.11	0.80
22:BC:358:ILE:HG22	38:BS:15:PRO:HG2	1.61	0.80
31:BL:66:ARG:O	31:BL:126:TYR:HA	1.79	0.80
31:BL:187:ARG:HH11	31:BL:188:LYS:H	1.28	0.80
31:BL:40:ARG:CZ	31:BL:40:ARG:HB2	2.09	0.80
35:BP:87:ARG:CZ	35:BP:87:ARG:HB2	2.08	0.80
1:AA:1240:U:C4'	7:AG:188:THR:HG22	2.11	0.80
18:B3:1446:U:OP1	39:BT:70:THR:HA	1.81	0.80
12:AL:127:VAL:HG11	12:AL:145:SER:O	1.81	0.80
27:BH:125:ASN:HD21	27:BH:164:ILE:HG12	1.44	0.80
27:BH:40:HIS:HE1	32:BM:127:ARG:HH11	1.26	0.80
18:B3:2552:C:O2'	18:B3:2553:A:C3'	2.29	0.80
2:AT:749:LYS:HG3	18:B3:2508:C:C6	2.15	0.80
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.11	0.80
40:BU:17:LYS:HG3	40:BU:18:ALA:H	1.45	0.80
28:BI:32:ARG:HG2	28:BI:33:ILE:HD13	1.63	0.80
20:BA:4:ILE:HG23	20:BA:5:THR:H	1.43	0.80
17:AS:80:MET:SD	17:AS:83:MET:HB2	2.20	0.80
9:AI:51:LEU:HD11	9:AI:84:ILE:CD1	2.10	0.80
9:AI:8:THR:HB	9:AI:87:GLY:N	1.97	0.80
18:B3:2368:A:H3'	24:BE:31:TYR:CD2	2.16	0.80
19:B4:30:C:O2	24:BE:57:ASN:ND2	2.13	0.80
33:BN:13:SER:HB2	33:BN:149:VAL:CG1	2.10	0.80
18:B3:676:C:H2'	23:BD:231:SER:C	1.99	0.80
18:B3:111:C:Cl'	18:B3:119:A:H61	1.92	0.80
30:BK:103:ASN:ND2	30:BK:142:ARG:HB3	1.97	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:186:HIS:NE2	21:BB:187:LYS:HG2	1.95	0.80
19:B4:99:U:C5'	25:BF:222:PHE:CE1	2.63	0.80
18:B3:944:G:C1'	25:BF:100:LYS:NZ	2.43	0.80
18:B3:67:A:H5''	44:BX:55:LEU:HD23	1.63	0.80
28:BI:124:GLY:C	28:BI:125:LEU:HD12	2.01	0.80
31:BL:5:TYR:CB	31:BL:8:GLU:HG2	2.11	0.80
18:B3:2346:C:O2'	29:BJ:66:VAL:N	1.92	0.80
2:AT:140:GLU:HB3	2:AT:481:MET:CE	1.95	0.80
2:AT:536:LEU:HB2	18:B3:2698:G:HO2'	1.45	0.80
18:B3:1744:G:HO2'	37:BR:21:ALA:HA	1.46	0.80
27:BH:10:ILE:HD12	27:BH:52:LEU:HD23	1.60	0.80
27:BH:12:VAL:CG1	27:BH:79:ILE:HD13	2.11	0.80
27:BH:41:ILE:C	32:BM:126:LEU:HB3	2.01	0.80
35:BP:41:ARG:HD3	35:BP:44:VAL:CG1	2.10	0.80
46:BZ:8:LYS:HG2	46:BZ:9:THR:H	1.46	0.80
40:BU:27:ARG:NH2	40:BU:28:ARG:HB3	1.95	0.80
40:BU:30:LEU:O	40:BU:31:LEU:HD23	1.81	0.80
41:BV:80:LEU:CD2	41:BV:81:ILE:HG12	2.11	0.80
41:BV:90:LEU:CD1	41:BV:96:GLU:HG3	2.12	0.80
4:AC:140:LYS:H	4:AC:146:ALA:HA	1.45	0.80
2:AT:91:GLN:NE2	2:AT:344:SER:H	1.78	0.80
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.46	0.80
1:AA:1224:G:O2'	17:AS:123:TYR:CE1	2.00	0.80
1:AA:1226:C:O2	17:AS:126:VAL:O	1.98	0.80
17:AS:90:ILE:HD11	17:AS:112:LEU:HD21	1.64	0.80
9:AI:51:LEU:HD22	9:AI:58:LYS:CD	2.12	0.80
10:AJ:49:ASN:HB3	10:AJ:99:ILE:HG12	1.62	0.80
19:B4:6:C:OP2	24:BE:27:LYS:HB3	1.82	0.80
42:B0:105:ARG:HA	42:B0:105:ARG:NE	1.95	0.80
18:B3:1343:C:O2	23:BD:188:ALA:CB	2.28	0.80
18:B3:27:U:H3'	18:B3:1319:G:C4'	1.98	0.80
34:BO:70:ALA:HB3	34:BO:74:GLU:O	1.81	0.80
34:BO:77:ALA:N	34:BO:79:LYS:HE3	1.97	0.80
34:BO:81:VAL:C	34:BO:101:VAL:HG11	2.02	0.80
23:BD:68:ARG:NH1	23:BD:68:ARG:HA	1.96	0.80
21:BB:27:LYS:HA	21:BB:122:ARG:CD	2.10	0.80
18:B3:1285:U:H5'	25:BF:155:ILE:HD13	1.59	0.80
18:B3:1067:A:C5'	25:BF:96:PRO:HG3	2.08	0.80
18:B3:948:G:N2	36:BQ:100:LYS:HD3	1.97	0.80
18:B3:2830:U:C4	22:BC:125:LYS:NZ	2.50	0.80
22:BC:20:ARG:HD3	22:BC:268:GLN:HG3	1.63	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:69:ARG:HD3	37:BR:89:ASP:HB2	0.82	0.80
26:BG:152:ILE:HB	26:BG:176:TYR:HE2	1.47	0.80
18:B3:2738:G:OP1	35:BP:60:SER:OG	2.00	0.80
18:B3:1676:G:H4'	39:BT:115:PRO:HG3	1.62	0.80
8:AH:35:LYS:HG3	8:AH:109:ILE:CG1	2.11	0.80
32:BM:13:HIS:HE1	32:BM:118:VAL:HG12	1.46	0.80
35:BP:2:ASN:OD1	35:BP:3:LEU:HG	1.82	0.80
35:BP:41:ARG:HA	35:BP:44:VAL:CG1	2.10	0.80
43:BW:53:GLU:H	43:BW:55:ASN:HD22	1.26	0.80
43:BW:28:ALA:HB1	43:BW:59:TRP:CD1	2.16	0.80
1:AA:1075:C:C5'	3:AB:102:THR:CA	2.59	0.80
18:B3:2853:U:O3'	22:BC:170:LEU:HD11	1.80	0.80
40:BU:70:ILE:CD1	40:BU:80:VAL:HG21	2.11	0.80
18:B3:80:A:H5'	40:BU:74:TYR:OH	1.80	0.80
47:B9:36:TYR:CB	47:B9:46:VAL:HG11	2.10	0.80
33:BN:49:GLN:NE2	33:BN:54:GLN:HG2	1.94	0.80
7:AG:84:ALA:HB3	7:AG:89:ILE:CD1	2.11	0.80
1:AA:1350:A:N3	7:AG:103:ASN:HA	1.96	0.80
12:AL:100:ASP:HB3	12:AL:132:LEU:CB	2.11	0.80
13:AM:28:ILE:HG13	13:AM:32:LEU:CD1	2.11	0.80
13:AM:126:ARG:HH12	17:AS:121:ILE:CG1	1.92	0.80
24:BE:63:GLN:HG2	24:BE:64:ILE:H	1.45	0.80
36:BQ:40:VAL:HG13	36:BQ:97:LYS:CA	2.04	0.80
33:BN:44:GLN:HA	33:BN:47:LEU:HD23	1.60	0.80
42:B0:73:THR:HG22	42:B0:93:ALA:HB3	1.62	0.80
18:B3:449:A:H5''	18:B3:1306:U:O4'	1.79	0.80
18:B3:1347:U:O2'	23:BD:240:GLY:C	2.19	0.80
23:BD:133:LEU:HD12	23:BD:137:ARG:HH21	1.46	0.80
18:B3:53:C:C5'	18:B3:121:U:C3'	2.48	0.80
18:B3:817:G:H4'	18:B3:818:A:OP1	1.80	0.80
25:BF:209:PRO:CG	25:BF:242:MET:HG3	2.11	0.80
18:B3:1133:A:O4'	18:B3:2521:A:H5'	1.80	0.80
18:B3:2678:A:O2'	22:BC:13:LEU:CB	2.25	0.80
18:B3:2806:C:H5''	22:BC:343:THR:OG1	1.82	0.80
22:BC:236:LYS:HA	22:BC:246:ARG:CG	2.10	0.80
28:BI:167:LEU:HD13	28:BI:168:SER:N	1.97	0.80
18:B3:2136:G:C2	18:B3:2238:A:C2	2.63	0.80
31:BL:42:THR:HG23	31:BL:43:ARG:CD	2.08	0.80
18:B3:123:U:OP1	39:BT:87:MET:CB	2.15	0.80
18:B3:1674:C:O5'	39:BT:111:THR:CG2	2.24	0.80
10:AJ:73:GLY:N	14:AN:38:CYS:HA	1.96	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:175:ARG:HG2	5:AD:191:ALA:CA	2.11	0.80
12:AL:96:VAL:HG22	12:AL:133:LEU:CD2	2.11	0.80
27:BH:25:VAL:HG12	27:BH:36:LYS:H	1.45	0.80
35:BP:30:GLU:O	35:BP:31:ILE:HG13	1.81	0.80
18:B3:819:A:H4'	47:B9:13:TYR:OH	1.81	0.80
1:AA:1309:G:P	13:AM:127:HIS:CE1	2.74	0.80
13:AM:84:TRP:O	13:AM:100:THR:HA	1.80	0.80
1:AA:1298:C:H5'	13:AM:55:HIS:O	1.81	0.80
18:B3:843:A:C4'	33:BN:130:ARG:HG3	2.12	0.80
45:BY:9:LYS:HE2	45:BY:10:ARG:HB3	1.63	0.80
42:B0:36:LYS:HE2	42:B0:36:LYS:HA	1.62	0.80
9:AI:98:GLU:H	9:AI:103:GLU:CA	1.94	0.80
19:B4:50:G:H3'	24:BE:92:LEU:C	1.79	0.80
24:BE:75:LEU:CD1	24:BE:113:LEU:HD11	2.10	0.80
24:BE:110:LEU:CA	24:BE:115:LEU:HG	2.11	0.80
23:BD:7:VAL:HG23	23:BD:151:VAL:O	1.82	0.80
18:B3:1310:U:OP2	23:BD:180:VAL:CA	2.30	0.80
18:B3:797:A:H2'	18:B3:798:G:H1'	1.64	0.80
21:BB:171:GLY:CA	47:B9:67:ALA:HB3	2.11	0.80
21:BB:179:LEU:CD2	47:B9:20:SER:CB	2.27	0.80
18:B3:72:C:H4'	44:BX:49:LYS:HZ3	1.47	0.80
22:BC:217:ILE:HG22	22:BC:275:THR:CB	2.12	0.80
37:BR:80:ARG:HA	37:BR:80:ARG:CZ	2.12	0.80
37:BR:80:ARG:HH22	37:BR:85:TRP:HE1	1.29	0.80
35:BP:102:ARG:NH1	35:BP:102:ARG:HB3	1.96	0.80
18:B3:2737:C:H6	35:BP:61:ARG:H	1.28	0.80
18:B3:1794:G:P	35:BP:97:ARG:HD3	2.22	0.80
18:B3:924:G:O6	41:BV:41:ARG:HD2	1.81	0.80
29:BJ:79:LEU:HD23	29:BJ:126:PHE:CZ	2.15	0.80
29:BJ:165:LYS:HD2	29:BJ:165:LYS:H	1.46	0.80
39:BT:111:THR:HG22	39:BT:112:LEU:H	1.45	0.80
2:AT:138:GLN:HB2	18:B3:2698:G:H5'	1.63	0.80
37:BR:37:ILE:HG22	37:BR:59:MET:O	1.81	0.80
27:BH:62:ARG:CB	32:BM:129:LYS:CE	2.24	0.80
46:BZ:22:HIS:CG	46:BZ:73:CYS:HA	2.16	0.80
1:AA:1377:A:C6	7:AG:76:TYR:CD2	2.69	0.80
40:BU:48:LEU:CD1	40:BU:109:LEU:HD12	2.10	0.80
40:BU:86:THR:HG21	40:BU:97:ILE:CG2	2.12	0.80
1:AA:924:C:O2'	1:AA:1399:C:OP2	1.99	0.80
1:AA:124:G:H5'	1:AA:289:G:N3	1.96	0.80
11:AK:29:VAL:HG23	11:AK:66:VAL:CG1	2.10	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:83:ILE:HB	15:AO:84:PRO:HD3	1.63	0.80
18:B3:882:A:C5'	45:BY:2:LYS:CA	2.56	0.80
9:AI:33:SER:HB3	9:AI:37:LEU:HD23	1.63	0.80
24:BE:163:LEU:HD11	24:BE:175:HIS:HB3	1.64	0.80
24:BE:75:LEU:HD12	24:BE:113:LEU:CD2	2.12	0.80
33:BN:147:LEU:HG	33:BN:148:VAL:H	1.43	0.80
18:B3:552:A:C5'	42:B0:118:LYS:HE3	2.12	0.80
42:B0:95:GLU:HG3	42:B0:120:THR:CG2	2.10	0.80
18:B3:449:A:H61	18:B3:1349:G:C3'	1.92	0.80
23:BD:177:LEU:HA	23:BD:205:LEU:CD1	2.12	0.80
23:BD:215:VAL:HG21	23:BD:218:LEU:HD23	1.62	0.80
23:BD:35:HIS:HA	23:BD:38:PHE:HE1	1.46	0.80
34:BO:123:THR:HG23	34:BO:126:GLN:H	1.46	0.80
18:B3:111:C:H5'	18:B3:122:C:H42	1.46	0.80
21:BB:177:PRO:HB2	47:B9:22:ARG:HH11	1.44	0.80
19:B4:86:G:O3'	25:BF:219:PHE:CZ	2.30	0.80
18:B3:92:G:H8	44:BX:41:LEU:HB3	1.44	0.80
18:B3:2718:C:OP2	22:BC:331:ARG:NH2	2.13	0.80
28:BI:60:LEU:HD13	28:BI:159:PHE:CE1	2.17	0.80
18:B3:2709:G:C4'	37:BR:9:THR:N	1.78	0.80
18:B3:921:G:C5'	41:BV:42:ILE:HG13	2.11	0.80
5:AD:86:LEU:HD12	5:AD:96:VAL:CG2	2.12	0.80
6:AE:214:PHE:O	6:AE:217:ILE:HG22	1.81	0.80
8:AH:26:ILE:HG22	8:AH:60:ILE:O	1.81	0.80
1:AA:633:G:C3'	16:AQ:94:PRO:HA	2.10	0.80
18:B3:343:C:C5'	40:BU:34:PRO:HG3	2.05	0.80
1:AA:359:U:H5''	2:AT:391:LYS:C	2.01	0.80
1:AA:924:C:HO2'	1:AA:1399:C:P	2.03	0.80
1:AA:518:C:O2'	12:AL:66:SER:HB3	1.82	0.80
13:AM:91:ASP:CA	13:AM:109:LEU:C	2.41	0.80
17:AS:55:GLY:CA	17:AS:83:MET:HG3	2.11	0.80
18:B3:539:G:N1	42:B0:50:ILE:HD13	1.95	0.80
9:AI:88:LEU:HD23	9:AI:104:LEU:HD22	1.62	0.80
9:AI:47:VAL:CG2	9:AI:77:VAL:HG13	2.12	0.80
10:AJ:49:ASN:HB3	10:AJ:99:ILE:CG1	2.12	0.80
18:B3:2328:U:H5''	24:BE:153:THR:HG1	1.46	0.80
18:B3:2050:G:H8	33:BN:82:TRP:HE3	0.82	0.80
18:B3:2659:U:O3'	33:BN:71:GLN:NE2	2.15	0.80
18:B3:2050:G:C8	33:BN:82:TRP:HE3	1.62	0.80
18:B3:1343:C:OP1	23:BD:192:LYS:CG	2.30	0.80
18:B3:1872:C:C2	21:BB:22:ARG:HG3	2.16	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(E):U:H5''	16:AQ:130:ILE:HG12	1.61	0.80
18:B3:1002:G:O2'	28:BI:90:ARG:NH2	0.65	0.80
22:BC:331:ARG:HB2	22:BC:332:LYS:NZ	1.95	0.80
22:BC:358:ILE:H	38:BS:15:PRO:CG	1.95	0.80
18:B3:2283:G:C6	28:BI:105:CYS:HA	2.11	0.80
28:BI:89:VAL:HA	28:BI:136:PHE:HB3	1.64	0.80
28:BI:98:ARG:H	28:BI:98:ARG:HH11	1.27	0.80
18:B3:265:U:H5''	31:BL:54:ALA:O	1.81	0.80
18:B3:1787:C:O2	18:B3:2883:A:H8	1.58	0.80
20:BA:54:LYS:CG	20:BA:156:LYS:HD2	2.10	0.80
18:B3:1677:U:P	39:BT:115:PRO:CD	2.65	0.80
10:AJ:78:THR:HG23	14:AN:39:ARG:HD3	1.61	0.80
3:AB:146:THR:HG21	3:AB:150:SER:HB2	1.61	0.80
5:AD:101:VAL:HB	5:AD:191:ALA:H	1.46	0.80
5:AD:91:LYS:HA	6:AE:173:ARG:C	2.02	0.80
1:AA:35:G:H4'	12:AL:128:SER:HB2	1.64	0.80
37:BR:28:ASN:ND2	37:BR:102:ILE:HG21	1.97	0.80
18:B3:2565:C:N4	27:BH:171:ASP:OD2	2.14	0.80
27:BH:75:VAL:HB	27:BH:78:MET:CE	2.12	0.80
27:BH:75:VAL:HA	27:BH:78:MET:CG	2.11	0.80
41:BV:98:ALA:HA	41:BV:125:LYS:HE2	1.64	0.80
7:AG:139:THR:HG21	7:AG:174:LEU:CD2	2.12	0.80
10:AJ:84:MET:HA	10:AJ:84:MET:CE	2.12	0.80
46:BZ:34:LEU:HG	46:BZ:39:LYS:HB3	1.63	0.80
1:AA:1321:C:H5'	17:AS:118:GLU:CA	2.11	0.80
1:AA:1302:U:C1'	13:AM:54:LEU:HD21	2.12	0.80
1:AA:1222:G:N3	17:AS:99:GLY:O	2.14	0.80
19:B4:48:C:H3'	24:BE:158:ARG:HG3	1.55	0.80
19:B4:119:C:C1'	24:BE:73:VAL:N	2.43	0.80
33:BN:117:GLN:HB3	33:BN:146:GLU:O	1.82	0.80
18:B3:1310:U:OP2	23:BD:203:GLY:HA3	1.82	0.80
18:B3:745:G:C6	34:BO:90:ASP:O	2.34	0.80
18:B3:771:G:OP1	31:BL:76:LYS:HD2	1.81	0.80
21:BB:191:LYS:HG3	21:BB:193:ASN:ND2	1.96	0.80
21:BB:87:ILE:HG13	21:BB:98:GLY:O	1.82	0.80
25:BF:169:GLU:HG2	25:BF:175:TYR:HB3	1.64	0.80
25:BF:209:PRO:HD2	25:BF:242:MET:HG3	1.64	0.80
18:B3:1206:C:O2'	18:B3:1207:A:O4'	1.99	0.80
18:B3:93:C:H5'	44:BX:42:PRO:CA	2.11	0.80
44:BX:21:LEU:HD23	44:BX:22:VAL:N	1.97	0.80
18:B3:2668:G:O2'	22:BC:129:PHE:O	2.00	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:145:ARG:HH12	22:BC:148:ALA:HB3	1.47	0.80
22:BC:214:ILE:HG22	22:BC:215:ASP:O	1.81	0.80
22:BC:287:GLY:HA3	22:BC:317:LYS:O	1.81	0.80
18:B3:968:G:HO2'	28:BI:39:LYS:HG3	0.95	0.80
26:BG:151:LEU:HG	26:BG:185:LEU:HD22	1.62	0.80
26:BG:161:LEU:HD21	31:BL:3:TYR:CE2	2.17	0.80
18:B3:1597:A:H4'	35:BP:95:ILE:HG21	1.63	0.80
10:AJ:71:PRO:HG2	14:AN:36:ASN:HB2	1.50	0.80
1:AA:403:C:O2'	5:AD:127:VAL:HG12	1.82	0.80
8:AH:25:LEU:HD22	8:AH:52:ILE:CD1	2.12	0.80
8:AH:24:VAL:HG23	8:AH:64:LEU:CD1	2.11	0.80
1:AA:67:C:C2	1:AA:70:G:C8	2.68	0.80
35:BP:28:THR:O	35:BP:32:ALA:HB2	1.82	0.80
18:B3:2382:A:C4	46:BZ:10:TYR:HE2	1.98	0.80
46:BZ:9:THR:C	46:BZ:19:HIS:HB3	2.02	0.80
1:AA:1493:A:H2'	1:AA:1494:G:C5'	2.10	0.80
40:BU:100:HIS:NE2	40:BU:104:LEU:HD13	1.97	0.80
2:AT:749:LYS:HG2	18:B3:2508:C:H6	1.47	0.80
18:B3:2081:A:C3'	32:BM:69:PRO:HB3	2.12	0.80
1:AA:1418:A:H2	18:B3:1989:G:N3	1.79	0.80
1:AA:728:A:N6	15:AO:108:LYS:HZ3	1.78	0.80
40:BU:14:LYS:HA	40:BU:17:LYS:CG	2.12	0.80
2:AT:757:GLU:HB3	18:B3:1171:A:C2'	2.11	0.80
18:B3:1882:C:OP2	21:BB:199:ARG:O	2.00	0.80
18:B3:1361:C:C5	23:BD:89:PHE:HA	2.16	0.80
1:AA:1219:U:C4'	17:AS:59:LYS:N	2.28	0.80
18:B3:882:A:H5'	45:BY:2:LYS:CA	2.12	0.80
1:AA:1118:C:C4'	9:AI:118:ALA:HB3	2.11	0.80
33:BN:16:ALA:HB3	33:BN:96:ASN:OD1	1.82	0.80
42:B0:107:VAL:HG23	42:B0:108:ILE:H	1.46	0.80
18:B3:764:C:O4'	23:BD:86:GLN:CG	2.30	0.80
18:B3:1164:U:P	30:BK:51:LYS:N	2.54	0.80
44:BX:17:LEU:HG	44:BX:58:ILE:HG23	1.64	0.80
18:B3:1229:C:H4'	18:B3:2500:C:O3'	1.82	0.80
18:B3:1732:A:N1	18:B3:2840:A:C5	2.49	0.80
18:B3:2283:G:C4'	28:BI:114:GLY:HA2	2.08	0.80
28:BI:128:ARG:HB2	28:BI:128:ARG:NH1	1.96	0.80
28:BI:88:ARG:O	28:BI:136:PHE:HB2	1.81	0.80
28:BI:153:ARG:NH1	28:BI:153:ARG:HB3	1.97	0.80
18:B3:2737:C:C5	35:BP:61:ARG:HG2	2.16	0.80
18:B3:2737:C:C6	35:BP:61:ARG:CG	2.64	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1785:G:H1	18:B3:2884:G:C5'	1.94	0.80
18:B3:2165:G:HO2'	20:BA:33:GLU:CB	1.71	0.80
20:BA:50:SER:HB3	20:BA:150:ASP:OD1	1.82	0.80
39:BT:124:ARG:HB3	39:BT:124:ARG:NH1	1.96	0.80
3:AB:22:HIS:CE1	3:AB:171:LEU:HD13	2.16	0.80
5:AD:126:ARG:O	5:AD:129:ILE:HG22	1.82	0.80
6:AE:156:LYS:HG3	6:AE:168:LEU:O	1.81	0.80
1:AA:860:A:O2'	8:AH:18:LYS:CD	2.29	0.80
1:AA:362:G:O2'	12:AL:78:LYS:HD2	1.81	0.80
1:AA:25:C:C3'	12:AL:109:ARG:HD2	2.12	0.80
27:BH:54:LYS:HD3	27:BH:72:LYS:CD	2.10	0.80
18:B3:343:C:C5'	40:BU:34:PRO:CG	2.59	0.80
18:B3:697:G:C3'	41:BV:112:LEU:CD1	2.59	0.80
18:B3:2319:C:OP2	46:BZ:1:VAL:HG23	1.81	0.80
20:BA:124:LEU:HB3	20:BA:128:LEU:HD13	1.64	0.80
5:AD:76:LEU:O	5:AD:80:LEU:HG	1.82	0.80
18:B3:2316:G:OP1	18:B3:2316:G:H4'	1.81	0.80
9:AI:97:ASP:C	9:AI:102:ASN:H	1.84	0.80
9:AI:99:GLN:HB3	9:AI:115:LEU:H	1.47	0.80
10:AJ:52:LYS:CG	10:AJ:91:ILE:HG22	2.12	0.80
1:AA:336:C:P	1:AA:1434:A:H5'	1.98	0.80
18:B3:1427:A:O2'	33:BN:20:TYR:OH	2.00	0.80
18:B3:751:U:OP1	23:BD:111:LYS:C	2.19	0.80
18:B3:672:G:H1	23:BD:232:LEU:HD11	1.47	0.80
23:BD:208:TYR:CD1	23:BD:248:ILE:HG21	2.17	0.80
34:BO:33:TYR:HB3	34:BO:36:LEU:CD1	2.12	0.80
18:B3:1830:C:H42	21:BB:180:LYS:HE3	0.64	0.80
21:BB:82:HIS:HA	47:B9:62:THR:O	1.82	0.80
21:BB:103:LEU:O	21:BB:106:VAL:HG12	1.82	0.80
21:BB:127:ARG:HH21	21:BB:128:ALA:HB3	1.45	0.80
21:BB:149:LEU:HB3	21:BB:150:PRO:HD2	1.64	0.80
25:BF:87:ARG:CA	25:BF:133:VAL:HG12	2.07	0.80
44:BX:41:LEU:CD1	44:BX:43:LYS:HE3	2.11	0.80
18:B3:2531:U:O3'	18:B3:2532:A:H4'	1.82	0.80
18:B3:2719:A:H2	37:BR:91:VAL:CG1	1.95	0.80
22:BC:359:ASP:HA	38:BS:16:GLY:H	1.46	0.80
29:BJ:33:SER:HA	29:BJ:36:LEU:CD2	2.11	0.80
2:AT:111:PHE:HB2	2:AT:484:SER:N	1.95	0.80
18:B3:1380:U:C3'	43:BW:25:LYS:HZ2	1.92	0.80
35:BP:11:ALA:HB3	35:BP:18:LYS:NZ	1.96	0.80
2:AT:18:ASN:HD21	2:AT:94:ASP:H	1.27	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:987:G:N2	1:AA:1014:A:O2'	2.14	0.79
1:AA:1319:A:OP2	17:AS:49:MET:SD	2.40	0.79
17:AS:56:PHE:HB2	17:AS:80:MET:HE2	1.63	0.79
9:AI:51:LEU:HB3	9:AI:58:LYS:HG3	1.61	0.79
24:BE:116:ASP:HB2	24:BE:143:LYS:H	1.47	0.79
18:B3:13:G:OP1	33:BN:60:ARG:HD3	1.82	0.79
33:BN:85:LYS:HA	33:BN:88:LYS:NZ	1.97	0.79
23:BD:229:VAL:HA	23:BD:232:LEU:HD23	1.64	0.79
1:AA:254:G:O4'	16:AQ:79:MET:HE2	1.74	0.79
22:BC:214:ILE:HD12	22:BC:339:LYS:O	1.80	0.79
26:BG:144:ASN:O	26:BG:146:LYS:HG2	1.81	0.79
26:BG:159:ILE:HD13	31:BL:40:ARG:HH11	1.45	0.79
35:BP:109:ARG:HB2	35:BP:114:ILE:HG22	1.64	0.79
35:BP:116:LYS:HA	35:BP:119:TYR:CD1	2.17	0.79
18:B3:2348:C:O4'	29:BJ:17:VAL:HG21	1.81	0.79
29:BJ:59:ARG:CZ	29:BJ:62:GLU:HG2	2.11	0.79
8:AH:23:GLN:HG3	8:AH:61:VAL:CG1	2.12	0.79
2:AT:109:VAL:HG21	2:AT:142:VAL:HG23	1.64	0.79
27:BH:20:ILE:O	27:BH:47:LYS:HE2	1.81	0.79
32:BM:8:ILE:HD12	32:BM:18:LEU:CD1	2.10	0.79
32:BM:15:VAL:HG22	32:BM:42:ILE:CG2	2.13	0.79
1:AA:1375:A:N6	7:AG:76:TYR:CZ	2.50	0.79
1:AA:20:U:H4'	1:AA:573:A:C2	2.14	0.79
41:BV:5:THR:CG2	41:BV:7:THR:HG22	2.12	0.79
18:B3:2081:A:C2'	32:BM:69:PRO:HB3	2.11	0.79
2:AT:744:TYR:CZ	18:B3:1171:A:C2	2.70	0.79
11:AK:27:VAL:HG13	11:AK:66:VAL:CG2	2.12	0.79
18:B3:521:A:H5''	42:B0:26:HIS:NE2	1.96	0.79
1:AA:751:U:O2'	15:AO:83:ILE:CD1	2.29	0.79
6:AE:100:VAL:HG22	6:AE:114:ILE:HG22	1.64	0.79
34:BO:54:LEU:HD23	34:BO:58:ASN:ND2	1.98	0.79
1:AA:1221:G:OP1	17:AS:96:ILE:CD1	2.30	0.79
1:AA:950:U:P	13:AM:140:THR:OG1	2.40	0.79
1:AA:1176:A:O4'	9:AI:108:PHE:HD1	1.61	0.79
10:AJ:34:LEU:HA	10:AJ:37:VAL:CG2	2.12	0.79
19:B4:69:U:H4'	24:BE:14:SER:CA	2.09	0.79
23:BD:181:LEU:CD1	23:BD:202:ARG:HA	2.13	0.79
18:B3:672:G:O5'	23:BD:214:ILE:HD12	1.81	0.79
23:BD:217:ALA:O	23:BD:218:LEU:HD22	1.80	0.79
23:BD:215:VAL:HG21	23:BD:218:LEU:CD2	2.11	0.79
34:BO:102:ALA:HB2	34:BO:122:ILE:CD1	2.10	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:59:ARG:HG2	34:BO:60:PRO:CA	2.12	0.79
18:B3:2101:A:H8	23:BD:71:ALA:HA	1.03	0.79
21:BB:147:VAL:CG2	21:BB:155:LYS:HB2	2.12	0.79
18:B3:1285:U:C5'	25:BF:155:ILE:CG2	2.55	0.79
25:BF:101:VAL:O	25:BF:102:LEU:HD12	1.81	0.79
18:B3:1067:A:H4'	25:BF:93:LYS:O	1.82	0.79
44:BX:44:ILE:HD12	44:BX:47:VAL:CG1	2.11	0.79
18:B3:1741:U:H5'	18:B3:2724:U:OP1	1.82	0.79
18:B3:2090:G:H2'	18:B3:2091:G:C8	2.17	0.79
18:B3:2828:G:H5'	22:BC:130:THR:O	1.82	0.79
18:B3:2819:C:C2'	22:BC:101:LEU:N	2.37	0.79
26:BG:130:ALA:HB1	26:BG:201:GLU:CG	2.12	0.79
31:BL:173:ILE:CD1	31:BL:188:LYS:HD3	2.10	0.79
31:BL:50:LEU:HD23	31:BL:116:ASN:O	1.81	0.79
18:B3:1592:G:O2'	35:BP:120:HIS:HE1	1.63	0.79
18:B3:1566:C:C3'	35:BP:56:VAL:CG1	2.60	0.79
1:AA:33:A:H2	12:AL:47:SER:CB	1.90	0.79
18:B3:2705:U:H5''	27:BH:122:LYS:CE	1.96	0.79
1:AA:143:A:H8	1:AA:200:G:H1'	0.63	0.79
35:BP:22:TRP:H	35:BP:51:LYS:HB2	1.47	0.79
43:BW:16:HIS:CE1	43:BW:31:ALA:HA	2.18	0.79
43:BW:9:ARG:CZ	43:BW:72:LEU:HD21	2.11	0.79
1:AA:866:C:C5'	1:AA:1079:G:N1	2.38	0.79
1:AA:924:C:O2'	1:AA:1398:A:C3'	2.30	0.79
1:AA:1341:U:HO2'	9:AI:140:SER:HA	1.45	0.79
31:BL:175:LYS:NZ	31:BL:175:LYS:HA	1.97	0.79
31:BL:6:LEU:HD13	31:BL:44:PRO:HD2	1.63	0.79
35:BP:125:GLU:O	35:BP:130:ALA:HB3	1.82	0.79
1:AA:1309:G:C2'	13:AM:92:ILE:CG1	2.24	0.79
18:B3:638:C:H5''	42:B0:27:ARG:HB2	1.64	0.79
9:AI:51:LEU:HD21	9:AI:84:ILE:CD1	2.12	0.79
24:BE:100:ALA:O	24:BE:103:LEU:HB3	1.82	0.79
33:BN:14:ALA:C	33:BN:149:VAL:HG12	2.03	0.79
23:BD:140:ARG:HH21	23:BD:178:LEU:HB3	1.46	0.79
23:BD:38:PHE:HZ	23:BD:241:ALA:CA	1.94	0.79
21:BB:179:LEU:CD2	47:B9:20:SER:HB2	1.88	0.79
47:B9:32:GLN:HG2	47:B9:68:TYR:CB	2.12	0.79
21:BB:103:LEU:HD22	21:BB:106:VAL:HG11	1.63	0.79
21:BB:187:LYS:HA	21:BB:187:LYS:HZ3	1.47	0.79
21:BB:195:TRP:CE2	21:BB:196:PRO:HA	2.16	0.79
18:B3:1899:C:O4'	21:BB:223:THR:CG2	2.30	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1095:U:O2'	25:BF:209:PRO:CB	2.17	0.79
18:B3:67:A:C1'	39:BT:60:LYS:NZ	2.45	0.79
18:B3:72:C:OP1	44:BX:49:LYS:CE	2.30	0.79
22:BC:222:GLY:HA3	22:BC:270:GLY:CA	2.11	0.79
28:BI:66:GLU:HA	28:BI:69:ARG:NE	1.96	0.79
28:BI:65:LEU:CD1	28:BI:69:ARG:HB3	2.12	0.79
18:B3:265:U:C5'	31:BL:54:ALA:O	2.29	0.79
26:BG:119:LYS:HB2	26:BG:188:LEU:CD1	2.11	0.79
35:BP:97:ARG:HB2	35:BP:97:ARG:NH1	1.98	0.79
29:BJ:83:LEU:HD13	29:BJ:84:LYS:H	1.47	0.79
39:BT:104:VAL:CG1	39:BT:125:LEU:HD22	2.11	0.79
39:BT:81:LEU:HB2	39:BT:122:TYR:CB	2.11	0.79
18:B3:1943:C:C4'	21:BB:218:ILE:CD1	2.24	0.79
27:BH:114:VAL:O	27:BH:123:ILE:HG23	1.81	0.79
27:BH:29:GLY:HA2	27:BH:31:ARG:O	1.82	0.79
32:BM:123:LEU:CD2	32:BM:125:VAL:H	1.95	0.79
32:BM:13:HIS:NE2	32:BM:18:LEU:HB2	1.96	0.79
35:BP:7:LYS:O	35:BP:7:LYS:HD2	1.82	0.79
18:B3:1131:G:H5''	19:B4:91:C:C2	2.16	0.79
1:AA:580:U:H5'	15:AO:112:PHE:CZ	2.18	0.79
1:AA:125:U:H5''	1:AA:291:C:C4'	2.10	0.79
4:AC:105:LYS:HA	4:AC:105:LYS:CE	2.11	0.79
22:BC:211:ASN:OD1	22:BC:348:LYS:HB2	1.82	0.79
8:AH:80:VAL:HG11	8:AH:124:ILE:HD11	1.64	0.79
18:B3:1369:A:H4'	33:BN:64:SER:H	1.45	0.79
1:AA:1329:A:N6	13:AM:94:ASP:CA	2.41	0.79
19:B4:7:G:P	24:BE:30:TYR:CE1	2.75	0.79
36:BQ:45:ASN:O	36:BQ:48:ILE:HD12	1.82	0.79
33:BN:38:TRP:CE3	33:BN:42:LYS:HG2	2.18	0.79
18:B3:672:G:N1	23:BD:232:LEU:HD13	1.98	0.79
18:B3:678:G:H8	23:BD:259:GLN:CD	1.84	0.79
23:BD:191:GLY:O	23:BD:196:ARG:HA	1.82	0.79
23:BD:255:THR:HG22	23:BD:256:LYS:H	1.48	0.79
21:BB:106:VAL:CG2	21:BB:107:PRO:HD2	2.12	0.79
21:BB:138:HIS:HB2	21:BB:141:ASP:HA	1.63	0.79
18:B3:1285:U:H4'	25:BF:155:ILE:HG12	1.65	0.79
25:BF:168:ILE:HD13	25:BF:179:SER:CA	2.12	0.79
44:BX:53:CYS:O	44:BX:57:VAL:HG23	1.82	0.79
22:BC:47:GLY:CA	22:BC:80:THR:HG22	2.11	0.79
28:BI:12:GLN:HG3	28:BI:58:GLU:CG	2.12	0.79
26:BG:157:ASP:CB	26:BG:159:ILE:HG12	2.13	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:42:THR:HG21	31:BL:120:VAL:CG1	2.12	0.79
18:B3:1708:C:H5'	35:BP:87:ARG:HD3	1.65	0.79
18:B3:2165:G:O2'	20:BA:33:GLU:HB3	1.81	0.79
20:BA:43:PRO:HD2	20:BA:132:GLY:HA2	1.62	0.79
20:BA:64:SER:HB3	20:BA:107:TYR:CD2	2.17	0.79
14:AN:21:ARG:HB3	14:AN:35:LEU:CD2	2.13	0.79
3:AB:123:THR:HB	3:AB:173:TRP:CZ2	2.13	0.79
1:AA:641:U:O4'	8:AH:106:SER:OG	2.00	0.79
8:AH:99:GLY:HA3	8:AH:129:TYR:CB	2.13	0.79
1:AA:523:A:OP2	12:AL:123:LYS:NZ	2.15	0.79
2:AT:145:GLN:N	2:AT:483:PHE:CE2	2.50	0.79
37:BR:31:ALA:CA	37:BR:32:ARG:HD3	2.13	0.79
27:BH:41:ILE:C	32:BM:126:LEU:CB	2.51	0.79
18:B3:1398:G:H4'	35:BP:25:PRO:HD3	1.62	0.79
1:AA:1075:C:C5'	3:AB:102:THR:HB	2.12	0.79
1:AA:546:G:C3'	1:AA:548:G:O2'	2.30	0.79
1:AA:597:G:N2	8:AH:88:TRP:CZ2	2.50	0.79
42:B0:66:LEU:HD11	42:B0:70:GLY:O	1.82	0.79
24:BE:199:ILE:HG22	24:BE:223:PHE:CD2	2.17	0.79
1:AA:1319:A:H8	17:AS:49:MET:HE3	0.97	0.79
18:B3:616:U:H2'	42:B0:47:ARG:CD	2.10	0.79
1:AA:1179:A:OP2	9:AI:116:LEU:HD23	1.82	0.79
9:AI:8:THR:OG1	9:AI:86:LYS:HB3	1.82	0.79
10:AJ:60:THR:HG23	10:AJ:86:ILE:O	1.83	0.79
18:B3:2295:G:O5'	36:BQ:5:HIS:N	2.14	0.79
19:B4:50:G:C2	24:BE:57:ASN:OD1	2.36	0.79
24:BE:143:LYS:HA	24:BE:172:TYR:O	1.82	0.79
19:B4:119:C:CI'	24:BE:71:GLY:CA	2.61	0.79
42:B0:76:VAL:HG13	42:B0:81:ASP:CG	2.02	0.79
34:BO:124:LEU:HD12	34:BO:127:LEU:CB	2.13	0.79
18:B3:797:A:H3'	18:B3:798:G:C8	2.17	0.79
25:BF:161:PRO:C	25:BF:162:LEU:HD13	2.03	0.79
1:AA:190(E):U:OP2	16:AQ:137:ASN:HA	1.83	0.79
18:B3:2848:G:P	22:BC:173:LYS:HD3	2.22	0.79
22:BC:121:TRP:CD2	22:BC:123:LYS:HG2	2.17	0.79
18:B3:2654:C:H4'	22:BC:259:VAL:HG22	1.65	0.79
18:B3:2713:G:H5''	37:BR:45:ARG:HB2	1.63	0.79
26:BG:115:VAL:HG11	26:BG:213:LEU:CB	2.13	0.79
7:AG:186:ILE:HG23	7:AG:188:THR:N	1.98	0.79
18:B3:2337:G:P	29:BJ:103:PHE:CB	2.71	0.79
18:B3:2338:G:OP2	29:BJ:122:PHE:CA	2.04	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:41:ASN:HD21	32:BM:134:TYR:HB3	1.48	0.79
35:BP:43:LEU:HD23	35:BP:44:VAL:H	1.46	0.79
40:BU:109:LEU:HD23	40:BU:110:HIS:N	1.98	0.79
24:BE:197:SER:OG	24:BE:223:PHE:HB2	1.82	0.79
12:AL:101:GLU:H	12:AL:132:LEU:HD23	1.47	0.79
2:AT:829:LYS:HE3	2:AT:830:GLU:H	1.48	0.79
1:AA:1225:A:O4'	17:AS:122:THR:O	1.94	0.79
1:AA:1299:A:O2'	13:AM:30:TYR:HB3	1.82	0.79
1:AA:1300:G:C4'	13:AM:30:TYR:HD1	1.59	0.79
18:B3:1694:G:H21	45:BY:5:PRO:CA	1.95	0.79
19:B4:47:A:C4'	24:BE:154:THR:N	2.46	0.79
18:B3:1167:G:H1'	30:BK:110:ILE:HB	1.64	0.79
18:B3:1861:C:H4'	21:BB:7:GLN:CA	2.11	0.79
21:BB:116:GLU:CG	21:BB:161:ALA:HB1	2.12	0.79
18:B3:946:C:H5'	25:BF:124:GLU:HB2	1.63	0.79
18:B3:2654:C:H4'	22:BC:261:TRP:N	1.78	0.79
22:BC:57:ARG:HH11	22:BC:72:VAL:HG21	1.46	0.79
18:B3:1055:G:H21	28:BI:108:ALA:CB	1.94	0.79
18:B3:2312:G:H5''	28:BI:22:TYR:CE1	2.12	0.79
28:BI:31:ILE:HD13	28:BI:65:LEU:O	1.83	0.79
26:BG:105:LYS:HA	26:BG:105:LYS:NZ	1.96	0.79
26:BG:109:THR:HA	26:BG:118:GLY:N	1.96	0.79
18:B3:1812:G:N3	18:B3:2732:U:C4'	2.45	0.79
1:AA:66:G:C4'	1:AA:173:U:N1	2.21	0.79
1:AA:66:G:C5'	1:AA:173:U:O2	2.02	0.79
2:AT:536:LEU:CB	18:B3:2698:G:O2'	2.30	0.79
35:BP:24:ASP:CB	35:BP:27:GLU:HB2	2.11	0.79
40:BU:58:VAL:HG23	40:BU:103:LYS:NZ	1.98	0.79
40:BU:52:ARG:HA	40:BU:70:ILE:HG21	1.64	0.79
6:AE:204:ARG:HG2	6:AE:207:GLU:H	1.47	0.79
1:AA:928:G:C5'	1:AA:1533:C:C4	2.63	0.79
34:BO:54:LEU:HG	34:BO:55:SER:H	1.45	0.79
18:B3:371:U:H2'	18:B3:372:A:C8	2.17	0.79
18:B3:1369:A:OP2	33:BN:64:SER:HB3	1.81	0.79
29:BJ:28:ARG:C	29:BJ:29:LEU:HD22	2.03	0.79
4:AC:48:ILE:HD11	4:AC:88:GLU:HG3	1.65	0.79
9:AI:101:LYS:C	9:AI:105:LYS:HB2	2.03	0.79
42:B0:106:VAL:HA	42:B0:109:LEU:HB2	1.64	0.79
45:BY:16:THR:HG22	45:BY:17:LEU:H	1.46	0.79
18:B3:1163:G:C8	30:BK:51:LYS:CD	2.65	0.79
21:BB:67:LYS:HG3	21:BB:72:GLU:C	2.03	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:255:G:C5'	16:AQ:81:ARG:HB3	2.10	0.79
22:BC:283:ARG:HG3	22:BC:322:MET:HE3	1.62	0.79
22:BC:54:THR:HG21	37:BR:91:VAL:CG2	2.13	0.79
22:BC:359:ASP:CG	38:BS:14:TYR:HB2	2.01	0.79
18:B3:2719:A:O5'	38:BS:17:ARG:NH2	2.09	0.79
18:B3:402:U:H5'	31:BL:69:ASN:HD22	1.46	0.79
31:BL:5:TYR:HA	31:BL:8:GLU:CB	2.05	0.79
18:B3:1708:C:C5	35:BP:81:LYS:HG3	2.16	0.79
18:B3:1788:U:O2'	18:B3:2882:G:C8	2.17	0.79
18:B3:2737:C:C5	35:BP:61:ARG:CG	2.66	0.79
18:B3:1794:G:P	35:BP:97:ARG:HG2	2.22	0.79
29:BJ:71:ARG:NE	29:BJ:75:ALA:H	1.81	0.79
18:B3:1673:U:H3'	39:BT:111:THR:OG1	1.83	0.79
10:AJ:69:LYS:HE3	14:AN:39:ARG:CZ	2.12	0.79
18:B3:1745:G:P	37:BR:22:ILE:HD13	2.23	0.79
18:B3:2560:C:C4'	27:BH:168:ARG:HD2	2.11	0.79
1:AA:778:G:O4'	11:AK:126:ARG:HD2	1.75	0.79
18:B3:1396:C:C1'	35:BP:2:ASN:CB	2.61	0.79
18:B3:1401:G:H5"	43:BW:61:ARG:O	1.82	0.79
41:BV:120:VAL:HG21	41:BV:122:VAL:HG13	1.65	0.79
41:BV:135:GLU:C	41:BV:136:LYS:HD2	2.02	0.79
41:BV:82:PRO:HD3	41:BV:120:VAL:CG1	2.11	0.79
18:B3:1268:C:C5'	42:B0:61:LYS:HB3	2.12	0.79
4:AC:107:LYS:CB	4:AC:112:LEU:HD12	2.11	0.79
24:BE:219:PHE:CD1	24:BE:222:LEU:HB2	2.17	0.79
6:AE:133:LEU:HD13	6:AE:134:SER:N	1.98	0.79
2:AT:91:GLN:HE22	2:AT:344:SER:H	1.27	0.79
23:BD:219:ARG:CZ	23:BD:220:ASN:HA	2.13	0.79
1:AA:673:G:H2'	1:AA:674:G:C8	2.17	0.79
1:AA:1302:U:C2'	13:AM:54:LEU:CD2	2.60	0.79
1:AA:1309:G:C1'	13:AM:92:ILE:CG1	1.94	0.79
1:AA:1318:A:H8	17:AS:54:ALA:HB1	0.97	0.79
18:B3:541:C:H3'	42:B0:15:LYS:CB	2.11	0.79
1:AA:1178:G:OP1	9:AI:105:LYS:CG	2.23	0.79
9:AI:19:ALA:HB2	9:AI:83:ALA:HB1	1.64	0.79
18:B3:677:C:H4'	23:BD:256:LYS:CG	2.12	0.79
23:BD:171:VAL:HG23	23:BD:173:ALA:N	1.97	0.79
18:B3:1343:C:C6	23:BD:186:LEU:HD12	2.00	0.79
18:B3:1308:A:N6	23:BD:201:ARG:NH1	2.30	0.79
23:BD:256:LYS:HB3	23:BD:259:GLN:HB3	1.64	0.79
34:BO:81:VAL:H	34:BO:101:VAL:CG2	1.96	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:78:VAL:O	47:B9:79:ARG:HD2	1.83	0.79
22:BC:120:ASN:HB3	22:BC:129:PHE:CD1	2.16	0.79
18:B3:433:C:H4'	31:BL:149:TRP:HE3	1.42	0.79
7:AG:122:VAL:CG2	7:AG:123:LEU:HD12	2.09	0.79
18:B3:919:U:H3	41:BV:41:ARG:CB	1.95	0.79
18:B3:2346:C:HO2'	18:B3:2347:C:H5'	1.45	0.79
29:BJ:18:LEU:H	29:BJ:68:VAL:HB	1.46	0.79
8:AH:35:LYS:CG	8:AH:109:ILE:HG12	2.12	0.79
8:AH:96:ARG:HG2	8:AH:116:ARG:NH2	1.98	0.79
18:B3:2560:C:O4'	18:B3:2776:A:H2	1.62	0.79
27:BH:57:VAL:HB	32:BM:126:LEU:HD12	1.65	0.79
40:BU:113:LYS:N	40:BU:113:LYS:HE3	1.97	0.79
40:BU:23:PRO:HD2	40:BU:26:GLN:CB	2.12	0.79
6:AE:206:LEU:H	6:AE:206:LEU:HD22	1.48	0.79
5:AD:23:ARG:HB3	5:AD:36:LEU:HD13	1.64	0.79
18:B3:698:A:C5'	41:BV:113:GLY:O	2.31	0.79
41:BV:78:TRP:HB3	41:BV:117:ILE:CD1	2.12	0.79
18:B3:148:A:H5''	45:BY:41:ALA:O	1.82	0.79
11:AK:47:VAL:HB	11:AK:52:ASP:HB2	1.65	0.79
18:B3:1811:A:C5	18:B3:2730:G:N2	2.51	0.79
30:BK:94:LYS:HD2	30:BK:137:GLN:O	1.82	0.79
8:AH:82:ILE:HD11	8:AH:85:ILE:CG2	2.13	0.79
13:AM:122:HIS:CD2	17:AS:118:GLU:HB3	2.17	0.79
1:AA:1224:G:OP2	13:AM:139:LYS:CD	2.31	0.79
1:AA:1309:G:C4'	13:AM:91:ASP:CB	2.60	0.79
17:AS:83:MET:HG2	17:AS:84:ILE:O	1.83	0.79
10:AJ:56:VAL:CG1	10:AJ:90:TYR:HB2	2.13	0.79
36:BQ:76:ILE:CG1	36:BQ:78:LYS:HB2	2.13	0.79
18:B3:1315:G:N2	42:B0:107:VAL:CB	2.45	0.79
30:BK:117:ARG:HD2	30:BK:118:ASP:N	1.98	0.79
21:BB:61:VAL:HG22	21:BB:62:PHE:HD1	1.48	0.79
18:B3:693:A:H5''	41:BV:59:TYR:CG	2.18	0.79
18:B3:487:G:C5'	40:BU:90:VAL:HB	2.13	0.79
18:B3:2823:G:OP2	22:BC:135:LYS:CG	2.31	0.79
22:BC:18:ARG:HD3	22:BC:271:TYR:OH	1.83	0.79
18:B3:2545:U:C2'	22:BC:238:PRO:CG	2.61	0.79
26:BG:212:LYS:HE2	26:BG:213:LEU:CD2	2.12	0.79
35:BP:93:VAL:HG12	35:BP:97:ARG:HH21	1.48	0.79
18:B3:2345:A:H4'	29:BJ:48:LYS:HE3	1.63	0.79
18:B3:2336:G:O3'	29:BJ:101:PHE:CD2	2.36	0.79
5:AD:101:VAL:N	5:AD:191:ALA:HB3	1.98	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:713:G:N2	11:AK:124:SER:O	2.11	0.79
1:AA:518:C:C1'	12:AL:66:SER:O	2.29	0.79
18:B3:1470:A:H4'	31:BL:95:ARG:HD2	1.65	0.79
18:B3:2251:G:H2'	18:B3:2252:A:C8	2.18	0.79
4:AC:105:LYS:CD	4:AC:183:ILE:HB	2.13	0.79
8:AH:103:LEU:CD2	8:AH:124:ILE:HG22	2.13	0.79
32:BM:25:GLN:HA	32:BM:28:ASN:ND2	1.96	0.79
40:BU:117:ALA:C	40:BU:118:LEU:HD23	2.03	0.79
1:AA:987:G:N2	1:AA:1014:A:H1'	1.98	0.79
1:AA:1225:A:H1'	17:AS:122:THR:O	1.82	0.79
19:B4:7:G:C8	24:BE:22:ARG:HG2	2.18	0.79
33:BN:66:ILE:C	33:BN:79:LYS:HD2	2.04	0.79
18:B3:27:U:O4'	18:B3:1319:G:C3'	2.30	0.79
18:B3:1277:C:C5'	34:BO:34:THR:HG21	2.13	0.79
18:B3:1163:G:H21	30:BK:52:GLU:CD	1.87	0.79
22:BC:103:THR:O	22:BC:141:ALA:HB1	1.83	0.79
22:BC:205:ASP:HA	22:BC:208:PHE:CE1	2.18	0.79
22:BC:40:VAL:HG11	22:BC:43:THR:CA	2.13	0.79
28:BI:86:HIS:CE1	28:BI:138:VAL:HG11	2.17	0.79
18:B3:2737:C:C5	35:BP:61:ARG:N	2.50	0.79
18:B3:1788:U:OP2	35:BP:73:ARG:NH1	2.16	0.79
18:B3:921:G:H5''	41:BV:42:ILE:HG13	1.63	0.79
4:AC:40:VAL:CG2	4:AC:45:THR:HG22	2.13	0.79
10:AJ:72:ASN:ND2	14:AN:28:GLY:CA	2.46	0.79
1:AA:68:G:H3'	1:AA:73:C:OP2	1.82	0.79
1:AA:99:C:C4'	1:AA:101:A:N7	2.44	0.79
32:BM:8:ILE:CD1	32:BM:18:LEU:HD11	2.13	0.79
35:BP:10:ALA:HB1	35:BP:22:TRP:CZ2	2.18	0.79
35:BP:39:ALA:O	35:BP:43:LEU:HD22	1.83	0.79
46:BZ:17:ARG:HG2	46:BZ:18:LYS:H	1.48	0.79
18:B3:99:A:C6	40:BU:24:SER:HB3	2.17	0.79
5:AD:24:LEU:O	5:AD:28:LEU:HD22	1.82	0.79
41:BV:134:GLU:CB	41:BV:138:ARG:HD3	2.13	0.79
18:B3:2320:U:H2'	46:BZ:3:VAL:HG11	1.62	0.79
18:B3:926:A:C1'	41:BV:45:ASP:OD2	2.30	0.79
20:BA:179:LEU:HA	20:BA:182:GLN:HE21	1.46	0.79
1:AA:1067:A:C5'	1:AA:1387:G:H4'	2.13	0.79
2:AT:694:HIS:O	2:AT:700:ARG:HD3	1.83	0.79
1:AA:1314:C:C4	17:AS:49:MET:O	2.35	0.78
13:AM:126:ARG:HH12	17:AS:121:ILE:HG13	1.47	0.78
19:B4:48:C:C2'	24:BE:158:ARG:HG2	2.10	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:50:G:O6	24:BE:56:THR:O	2.01	0.78
19:B4:9:C:OP2	36:BQ:26:HIS:CD2	2.35	0.78
18:B3:1353:C:OP2	23:BD:102:THR:OG1	2.01	0.78
18:B3:25:A:N3	18:B3:1320:U:C4'	2.37	0.78
18:B3:111:C:H5''	18:B3:118:G:O6	1.79	0.78
47:B9:21:LEU:HA	47:B9:22:ARG:NH1	1.97	0.78
25:BF:115:PHE:HB3	25:BF:194:PHE:CE2	2.18	0.78
18:B3:68:U:C4	44:BX:54:VAL:O	2.34	0.78
18:B3:68:U:H5'	44:BX:51:ILE:HD11	1.65	0.78
18:B3:2821:C:H5'	22:BC:103:THR:CA	1.53	0.78
22:BC:112:GLU:CB	22:BC:173:LYS:HB2	2.13	0.78
18:B3:2848:G:OP1	22:BC:173:LYS:HD3	1.83	0.78
22:BC:283:ARG:HD2	22:BC:355:LEU:HG	1.65	0.78
18:B3:1056:U:H3'	28:BI:109:ASP:CG	1.85	0.78
31:BL:154:VAL:HG13	31:BL:158:ARG:HA	1.64	0.78
31:BL:99:ALA:HA	31:BL:168:LYS:CE	2.12	0.78
18:B3:1713:G:O2'	18:B3:2745:C:O2	2.01	0.78
18:B3:1806:G:N3	18:B3:2884:G:C1'	2.45	0.78
18:B3:2334:C:C2	29:BJ:116:ASP:CA	2.47	0.78
18:B3:2215:A:C5'	20:BA:107:TYR:CG	2.60	0.78
39:BT:114:ARG:HG3	39:BT:116:ASN:HB3	1.64	0.78
1:AA:620:C:C5'	5:AD:129:ILE:HD11	1.96	0.78
1:AA:616:G:H3'	5:AD:146:PHE:HZ	1.47	0.78
12:AL:59:ILE:HD11	12:AL:117:ILE:CD1	2.13	0.78
12:AL:117:ILE:HG13	12:AL:120:VAL:CG2	2.12	0.78
1:AA:676:A:C8	11:AK:121:PRO:CD	2.66	0.78
18:B3:1401:G:H5''	43:BW:62:GLY:C	2.04	0.78
40:BU:113:LYS:HD2	40:BU:116:LYS:NZ	1.97	0.78
18:B3:905:C:C2'	18:B3:1329:A:C4'	2.51	0.78
1:AA:357:G:OP1	1:AA:366:C:C5'	2.31	0.78
1:AA:118:U:C1'	1:AA:122:G:H1'	2.13	0.78
1:AA:124:G:P	1:AA:312:C:H1'	2.22	0.78
18:B3:390:G:P	46:BZ:47:SER:HB3	2.23	0.78
45:BY:36:CYS:HA	45:BY:44:ARG:CB	2.09	0.78
11:AK:84:ALA:N	11:AK:118:THR:HG22	1.97	0.78
6:AE:118:LYS:HD3	6:AE:118:LYS:O	1.82	0.78
1:AA:1309:G:C4	13:AM:92:ILE:O	2.36	0.78
13:AM:84:TRP:HB3	13:AM:99:HIS:O	1.82	0.78
17:AS:109:PRO:HA	17:AS:112:LEU:HD13	1.65	0.78
42:B0:22:SER:HA	42:B0:28:VAL:CG2	2.13	0.78
10:AJ:50:LEU:CD1	10:AJ:94:GLU:HB3	2.14	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:35:C:O2	24:BE:185:PHE:HB2	1.79	0.78
19:B4:47:A:H4'	24:BE:154:THR:H	1.48	0.78
24:BE:148:ILE:HG22	24:BE:159:VAL:CG1	2.11	0.78
24:BE:115:LEU:HD21	24:BE:171:LEU:HD13	1.64	0.78
42:B0:72:LYS:H	42:B0:90:LYS:CD	1.95	0.78
34:BO:37:ALA:HB2	34:BO:46:LYS:HB2	1.65	0.78
23:BD:92:MET:HA	23:BD:92:MET:HE3	1.65	0.78
45:BY:17:LEU:HD12	45:BY:17:LEU:O	1.84	0.78
18:B3:1654:U:OP2	21:BB:49:HIS:HE1	1.65	0.78
47:B9:22:ARG:HE	47:B9:24:GLN:H	1.28	0.78
21:BB:111:ILE:HG23	21:BB:132:TYR:HB2	1.62	0.78
44:BX:44:ILE:HA	44:BX:47:VAL:CG1	2.12	0.78
18:B3:2826:G:C2	22:BC:124:SER:HB3	2.18	0.78
37:BR:11:PHE:HB3	37:BR:86:ARG:NE	1.96	0.78
37:BR:16:GLY:C	37:BR:17:LEU:HD22	2.04	0.78
31:BL:161:ARG:HD3	31:BL:169:LYS:HG3	1.65	0.78
18:B3:1566:C:O5'	35:BP:57:HIS:CE1	2.35	0.78
38:BS:46:PRO:HA	38:BS:49:ILE:CD1	2.12	0.78
20:BA:54:LYS:N	20:BA:157:PHE:HB3	1.99	0.78
20:BA:67:ILE:HD11	20:BA:73:ASP:OD1	1.83	0.78
5:AD:101:VAL:O	5:AD:190:GLU:HA	1.83	0.78
6:AE:157:THR:OG1	8:AH:127:PHE:CZ	2.36	0.78
18:B3:902:G:H8	41:BV:21:ILE:HD11	1.40	0.78
27:BH:43:VAL:CG1	32:BM:127:ARG:N	2.46	0.78
27:BH:63:LYS:HZ3	32:BM:130:PRO:HB3	1.48	0.78
1:AA:678:U:C5'	11:AK:127:LYS:CA	2.33	0.78
2:AT:748:ASN:HB2	18:B3:2508:C:O2	1.83	0.78
18:B3:918:G:N2	41:BV:45:ASP:OD2	2.16	0.78
20:BA:175:GLU:O	20:BA:178:VAL:HG22	1.82	0.78
1:AA:1285:A:H4'	1:AA:1286:A:O5'	1.80	0.78
1:AA:989:C:C2	1:AA:1016:A:N9	2.51	0.78
13:AM:86:LEU:HD13	13:AM:87:ASN:N	1.98	0.78
33:BN:135:ILE:O	33:BN:135:ILE:HD12	1.83	0.78
36:BQ:42:ILE:CD1	36:BQ:91:LEU:HD22	2.13	0.78
18:B3:670:G:H22	23:BD:231:SER:HA	1.47	0.78
47:B9:59:CYS:HB3	47:B9:61:LYS:HZ1	1.48	0.78
21:BB:16:THR:O	21:BB:192:ARG:HA	1.82	0.78
18:B3:948:G:O2'	36:BQ:100:LYS:HE3	1.52	0.78
18:B3:2468:A:C5	46:BZ:55:PRO:HD3	2.19	0.78
1:AA:254:G:H4'	16:AQ:79:MET:HE1	1.61	0.78
26:BG:113:ALA:HB2	26:BG:119:LYS:CA	2.12	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2244:A:C3'	31:BL:27:TRP:HZ3	1.96	0.78
18:B3:1565:C:H5'	18:B3:2738:G:N7	1.99	0.78
18:B3:1785:G:O4'	18:B3:2733:U:OP1	2.00	0.78
20:BA:153:SER:O	20:BA:158:GLN:N	2.15	0.78
1:AA:860:A:H5''	3:AB:133:LYS:HZ2	1.45	0.78
41:BV:18:LYS:HE3	41:BV:20:ARG:CB	2.12	0.78
1:AA:143:A:OP1	1:AA:201:C:H5	1.58	0.78
40:BU:36:SER:OG	40:BU:38:GLU:HG3	1.83	0.78
40:BU:86:THR:HG21	40:BU:97:ILE:HG23	1.63	0.78
41:BV:97:THR:CG2	41:BV:124:VAL:HG22	2.12	0.78
4:AC:118:ALA:HB3	4:AC:149:MET:HE1	1.65	0.78
24:BE:88:ILE:HG22	24:BE:219:PHE:CE2	2.17	0.78
6:AE:192:VAL:HG11	6:AE:195:VAL:CG1	2.13	0.78
1:AA:956:U:C2'	17:AS:126:VAL:HG21	2.12	0.78
17:AS:83:MET:HE3	17:AS:85:ILE:HG22	1.66	0.78
24:BE:62:CYS:SG	24:BE:105:ILE:HD13	2.23	0.78
19:B4:117:G:N3	24:BE:70:THR:HG22	1.95	0.78
36:BQ:42:ILE:HD13	36:BQ:91:LEU:CD2	2.13	0.78
18:B3:750:A:H4'	23:BD:116:GLU:HB2	1.65	0.78
23:BD:124:ALA:HB2	23:BD:234:LEU:HD13	1.65	0.78
18:B3:1306:U:C5'	23:BD:195:ASN:CG	2.48	0.78
18:B3:763:C:H2'	23:BD:86:GLN:HG2	1.63	0.78
18:B3:894:A:C2	23:BD:98:MET:CE	2.67	0.78
18:B3:796:A:H4'	47:B9:12:LYS:CB	2.04	0.78
21:BB:50:ASP:OD2	21:BB:57:LEU:HG	1.83	0.78
25:BF:152:PHE:HB2	25:BF:200:PHE:CD2	2.19	0.78
26:BG:116:ALA:CA	26:BG:177:ALA:HB2	2.14	0.78
31:BL:112:LEU:HD23	31:BL:133:LEU:HD13	1.64	0.78
31:BL:119:TRP:HB3	31:BL:128:TYR:O	1.82	0.78
29:BJ:136:ARG:CZ	29:BJ:137:VAL:HG22	2.14	0.78
5:AD:156:ILE:HD11	5:AD:160:PRO:HB2	1.65	0.78
2:AT:536:LEU:HB2	18:B3:2698:G:O2'	1.83	0.78
27:BH:88:TYR:HB3	27:BH:181:VAL:HG21	1.65	0.78
32:BM:8:ILE:CD1	32:BM:18:LEU:HD21	2.13	0.78
18:B3:905:C:H2'	18:B3:1329:A:C4'	1.88	0.78
18:B3:1300:G:C6	18:B3:1330:A:N1	2.51	0.78
1:AA:292:G:O2'	1:AA:609:A:C5	2.34	0.78
5:AD:28:LEU:HB3	5:AD:43:TYR:CA	2.13	0.78
41:BV:97:THR:CG2	41:BV:124:VAL:HA	2.13	0.78
11:AK:18:ILE:HD13	11:AK:27:VAL:CG2	2.14	0.78
19:B4:56:A:C2'	19:B4:57:A:H5''	2.13	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:144:VAL:CB	24:BE:171:LEU:HD21	2.13	0.78
18:B3:1348:A:N1	23:BD:42:ASN:ND2	2.31	0.78
23:BD:5:VAL:HG21	23:BD:150:VAL:CG1	2.14	0.78
18:B3:890:C:H2'	45:BY:48:TRP:O	1.82	0.78
1:AA:131:C:H1'	1:AA:264:U:N1	1.67	0.78
18:B3:485:A:N3	18:B3:487:G:H5''	1.98	0.78
18:B3:68:U:C5'	44:BX:51:ILE:CD1	2.61	0.78
18:B3:1133:A:C2	18:B3:2501:G:C5	2.72	0.78
18:B3:2818:A:H2'	22:BC:99:ARG:O	1.84	0.78
22:BC:281:ILE:HD11	22:BC:321:ILE:CG2	2.14	0.78
26:BG:117:GLU:HG2	26:BG:213:LEU:HB3	1.66	0.78
26:BG:117:GLU:HG3	26:BG:213:LEU:HD22	1.63	0.78
18:B3:1705:C:C4'	35:BP:62:THR:CB	2.08	0.78
18:B3:2333:G:C1'	29:BJ:114:LYS:HG2	2.13	0.78
20:BA:67:ILE:HD13	20:BA:77:ALA:HB2	1.63	0.78
39:BT:107:LEU:HB2	39:BT:126:THR:HG22	1.65	0.78
5:AD:124:HIS:O	5:AD:127:VAL:HG22	1.83	0.78
18:B3:164:G:O2'	41:BV:31:ARG:HB2	1.83	0.78
27:BH:41:ILE:CG2	32:BM:126:LEU:HD23	2.03	0.78
27:BH:62:ARG:O	32:BM:129:LYS:O	2.00	0.78
32:BM:137:LEU:CD1	32:BM:139:LYS:H	1.93	0.78
46:BZ:62:LYS:HD3	46:BZ:64:THR:H	1.48	0.78
1:AA:634:C:H3'	16:AQ:92:TYR:CE1	2.05	0.78
40:BU:35:LEU:HG	40:BU:39:LEU:HD23	1.66	0.78
1:AA:1503:A:C8	1:AA:1531:A:C2	2.72	0.78
18:B3:157:G:HO2'	31:BL:95:ARG:NH2	1.77	0.78
7:AG:133:VAL:O	7:AG:136:ILE:HG22	1.83	0.78
11:AK:111:ILE:HD12	11:AK:114:ILE:HD11	1.63	0.78
1:AA:989:C:C4'	1:AA:1013:G:H21	1.95	0.78
17:AS:90:ILE:HG12	17:AS:112:LEU:HD11	1.63	0.78
42:B0:15:LYS:HD2	42:B0:16:LYS:N	1.99	0.78
42:B0:42:VAL:HA	42:B0:49:ASN:HD22	1.47	0.78
9:AI:99:GLN:H	9:AI:105:LYS:C	1.87	0.78
19:B4:29:C:H2'	19:B4:30:C:H5'	1.65	0.78
1:AA:318:G:H1'	1:AA:1468:A:C4'	2.13	0.78
18:B3:664:U:C4'	23:BD:114:HIS:CB	2.61	0.78
23:BD:133:LEU:HD11	23:BD:137:ARG:HE	1.49	0.78
18:B3:2274:A:C2'	31:BL:80:TYR:N	2.46	0.78
21:BB:27:LYS:CA	21:BB:122:ARG:HD2	2.14	0.78
18:B3:1830:C:C4	21:BB:180:LYS:HE3	2.18	0.78
18:B3:2830:U:C1'	22:BC:126:LYS:HZ1	1.95	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:145:ARG:HA	22:BC:145:ARG:CZ	2.12	0.78
22:BC:15:PHE:O	22:BC:16:LEU:HD12	1.83	0.78
22:BC:331:ARG:O	22:BC:334:ILE:HG22	1.83	0.78
18:B3:2037:C:H3'	37:BR:47:ASN:HD21	0.77	0.78
35:BP:137:LEU:O	35:BP:141:ILE:HG13	1.82	0.78
18:B3:2346:C:H4'	29:BJ:46:GLN:C	2.04	0.78
39:BT:112:LEU:HB3	39:BT:120:LYS:HB3	1.64	0.78
39:BT:95:LYS:HD2	39:BT:106:VAL:CG2	2.14	0.78
8:AH:35:LYS:O	8:AH:109:ILE:HD11	1.83	0.78
1:AA:920:U:C5'	1:AA:1080:A:C5	2.60	0.78
1:AA:1404:C:O2'	1:AA:1519:A:H5''	1.83	0.78
40:BU:112:ASP:HB3	40:BU:113:LYS:NZ	1.99	0.78
1:AA:1344:C:OP1	9:AI:136:ARG:CG	2.31	0.78
1:AA:239:U:C6	1:AA:240:C:C4	2.72	0.78
1:AA:1309:G:C8	13:AM:92:ILE:CD1	2.64	0.78
1:AA:1151:A:N7	10:AJ:57:ARG:NH2	2.32	0.78
9:AI:98:GLU:HA	9:AI:105:LYS:CB	2.12	0.78
24:BE:43:LYS:HD3	24:BE:44:TYR:CD1	2.18	0.78
24:BE:95:TRP:HB3	24:BE:99:TYR:CE2	2.19	0.78
33:BN:63:ASN:OD1	33:BN:79:LYS:HG2	1.83	0.78
30:BK:37:LEU:HB2	30:BK:64:ILE:CD1	2.13	0.78
25:BF:106:ARG:C	25:BF:107:LEU:HD13	2.03	0.78
25:BF:147:VAL:O	25:BF:162:LEU:HD21	1.84	0.78
25:BF:180:ILE:CD1	25:BF:182:ASP:H	1.97	0.78
44:BX:43:LYS:O	44:BX:46:THR:HB	1.84	0.78
18:B3:2520:G:H5'	28:BI:160:PRO:CA	2.01	0.78
18:B3:2840:A:P	22:BC:224:GLY:CA	2.66	0.78
22:BC:39:PRO:HD3	22:BC:190:LYS:HB3	1.66	0.78
22:BC:221:LYS:HE3	22:BC:221:LYS:N	1.99	0.78
18:B3:1815:A:C8	18:B3:2733:U:C4	2.70	0.78
7:AG:185:ASN:HB2	7:AG:191:GLU:HB3	1.65	0.78
1:AA:560:U:H5'	1:AA:563:A:OP1	1.82	0.78
6:AE:153:LEU:HD23	8:AH:97:GLN:HA	1.66	0.78
37:BR:39:VAL:CG1	37:BR:58:VAL:HG12	2.14	0.78
1:AA:1419:G:C2	18:B3:1990:C:C5'	2.67	0.78
1:AA:678:U:H5'	11:AK:127:LYS:CB	2.14	0.78
1:AA:1084:G:O6	6:AE:90:ARG:NH1	2.16	0.78
35:BP:3:LEU:HD12	35:BP:31:ILE:HD12	1.64	0.78
35:BP:7:LYS:HB3	35:BP:7:LYS:HZ2	1.48	0.78
46:BZ:72:GLU:HA	46:BZ:79:ARG:HB2	1.65	0.78
5:AD:30:LEU:HD12	5:AD:67:PRO:HG3	1.64	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:120:VAL:HB	41:BV:122:VAL:N	1.99	0.78
18:B3:2404:G:C8	36:BQ:69:LYS:CE	2.66	0.78
22:BC:296:SER:CB	22:BC:300:THR:HG21	2.14	0.78
1:AA:707:C:H5''	11:AK:19:TYR:CD1	2.18	0.78
1:AA:839:U:H5'	1:AA:840:C:C5	2.19	0.78
16:AQ:75:VAL:HG23	16:AQ:84:VAL:HG13	1.66	0.78
30:BK:73:VAL:HG11	30:BK:75:PRO:HD3	1.65	0.78
17:AS:85:ILE:HD13	17:AS:114:HIS:O	1.82	0.78
10:AJ:44:ASN:OD1	10:AJ:106:ILE:HG12	1.84	0.78
18:B3:2413:A:C1'	24:BE:174:PRO:CB	2.62	0.78
19:B4:5:G:C2	24:BE:72:ASP:OD2	2.22	0.78
18:B3:1433:G:OP2	33:BN:22:ARG:CZ	2.31	0.78
18:B3:26:U:O2	18:B3:1320:U:C1'	2.31	0.78
18:B3:721:A:H5''	34:BO:71:LEU:N	1.98	0.78
23:BD:33:ILE:HG22	23:BD:120:ALA:CB	2.12	0.78
23:BD:229:VAL:HA	23:BD:232:LEU:CD2	2.14	0.78
18:B3:448:G:C2	23:BD:47:GLN:CB	2.67	0.78
47:B9:48:ARG:H	47:B9:48:ARG:HD2	1.49	0.78
21:BB:116:GLU:OE2	21:BB:119:PRO:HA	1.84	0.78
21:BB:177:PRO:HD3	47:B9:25:VAL:HG22	1.60	0.78
25:BF:107:LEU:HD12	25:BF:114:THR:HG21	1.65	0.78
25:BF:146:LEU:HD22	25:BF:239:VAL:HG22	1.66	0.78
16:AQ:108:VAL:HG11	16:AQ:138:VAL:HG13	1.66	0.78
18:B3:2546:U:O4'	22:BC:238:PRO:HD3	1.84	0.78
22:BC:163:THR:H	22:BC:177:LEU:CD2	1.96	0.78
18:B3:1733:A:O3'	22:BC:227:GLY:N	2.16	0.78
18:B3:402:U:H1'	31:BL:92:LYS:CG	2.10	0.78
31:BL:22:GLN:HA	31:BL:25:ARG:CG	2.14	0.78
18:B3:2737:C:H41	35:BP:61:ARG:HH21	1.31	0.78
35:BP:137:LEU:CD2	35:BP:141:ILE:HD11	2.13	0.78
29:BJ:121:ILE:HA	29:BJ:125:ASP:HB3	1.66	0.78
18:B3:2169:C:H2'	20:BA:26:ARG:NH1	1.98	0.78
4:AC:40:VAL:HG23	4:AC:45:THR:HG22	1.64	0.78
5:AD:92:LYS:HA	6:AE:174:GLY:CA	2.12	0.78
8:AH:21:LYS:O	8:AH:64:LEU:HD22	1.84	0.78
1:AA:552:U:H1'	12:AL:48:HIS:HA	1.63	0.78
1:AA:25:C:C4'	12:AL:109:ARG:NE	2.39	0.78
18:B3:1226:G:P	18:B3:1246:A:N6	2.53	0.78
27:BH:114:VAL:HG22	27:BH:125:ASN:HB2	1.66	0.78
27:BH:71:VAL:HG21	32:BM:127:ARG:NH1	1.98	0.78
32:BM:53:TYR:HB3	32:BM:140:LEU:HD21	1.65	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:404:U:C4	5:AD:70:LEU:HD11	2.19	0.78
1:AA:1286:A:H3'	1:AA:1287:A:H5''	1.64	0.78
18:B3:1590:A:N6	18:B3:1605:G:H1'	1.99	0.78
30:BK:22:VAL:HG13	30:BK:23:GLY:H	1.47	0.78
1:AA:1225:A:H2	17:AS:126:VAL:C	1.87	0.78
1:AA:1320:C:O4'	17:AS:114:HIS:HB3	1.84	0.78
24:BE:75:LEU:CD2	24:BE:109:THR:HG23	2.13	0.78
47:B9:22:ARG:NE	47:B9:24:GLN:HG2	1.97	0.78
47:B9:30:ILE:O	47:B9:33:HIS:HB2	1.83	0.78
21:BB:113:SER:O	21:BB:164:VAL:HG22	1.84	0.78
21:BB:179:LEU:HA	47:B9:20:SER:HA	1.66	0.78
19:B4:86:G:P	25:BF:218:LYS:CG	2.66	0.78
25:BF:144:ARG:O	25:BF:147:VAL:HG22	1.82	0.78
1:AA:190(E):U:C4	16:AQ:131:SER:N	2.51	0.78
18:B3:107:U:O2'	44:BX:56:THR:HA	1.82	0.78
22:BC:213:MET:HE1	22:BC:346:SER:O	1.83	0.78
35:BP:138:VAL:HA	35:BP:141:ILE:CD1	2.13	0.78
38:BS:49:ILE:HD13	38:BS:49:ILE:H	1.48	0.78
29:BJ:71:ARG:HD3	29:BJ:71:ARG:N	1.98	0.78
4:AC:39:ARG:HH21	10:AJ:110:PRO:HA	1.48	0.78
8:AH:24:VAL:CG2	8:AH:64:LEU:HD11	2.13	0.78
27:BH:16:VAL:HG12	27:BH:29:GLY:O	1.84	0.78
1:AA:675:A:C8	11:AK:120:VAL:HG13	2.19	0.78
1:AA:677:U:C4	11:AK:123:ASP:HA	2.17	0.78
35:BP:22:TRP:CE3	35:BP:51:LYS:HB2	2.19	0.78
1:AA:1117:G:C2'	9:AI:120:SER:CB	2.36	0.78
1:AA:546:G:H5'	1:AA:549:C:H5''	1.65	0.78
41:BV:95:LYS:HG2	41:BV:122:VAL:CG1	2.14	0.78
41:BV:118:PRO:CG	41:BV:140:ALA:HB3	2.13	0.78
15:AO:90:LEU:HD23	15:AO:121:ILE:HG13	1.65	0.78
15:AO:82:GLU:HB3	15:AO:85:GLU:HB2	1.65	0.78
4:AC:104:MET:SD	4:AC:118:ALA:HA	2.23	0.78
24:BE:220:SER:HA	24:BE:223:PHE:CD2	2.18	0.78
18:B3:2505:G:OP1	28:BI:75:TYR:CZ	2.16	0.78
6:AE:192:VAL:HG11	6:AE:195:VAL:HG13	1.66	0.78
13:AM:91:ASP:CB	13:AM:113:LEU:HD12	2.13	0.78
18:B3:2415:A:H2	24:BE:35:ARG:CZ	1.92	0.78
33:BN:104:LYS:HB3	33:BN:106:LEU:CD1	2.14	0.78
33:BN:107:ASP:HB3	33:BN:110:LYS:HD3	1.67	0.78
18:B3:672:G:H1	23:BD:232:LEU:HD13	1.48	0.78
25:BF:181:ASP:HA	25:BF:184:ILE:HD11	1.64	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:109:HIS:HB2	16:AQ:130:ILE:CD1	2.14	0.78
18:B3:2655:U:C6	22:BC:261:TRP:NE1	2.51	0.78
22:BC:354:SER:O	22:BC:355:LEU:HD13	1.83	0.78
28:BI:51:HIS:CB	28:BI:52:LEU:HD13	2.13	0.78
28:BI:87:LEU:HD13	28:BI:88:ARG:N	1.99	0.78
18:B3:2709:G:C8	37:BR:7:GLN:NE2	2.52	0.78
31:BL:114:VAL:HB	31:BL:133:LEU:CD2	2.14	0.78
18:B3:1805:G:N2	18:B3:2883:A:N7	2.32	0.78
18:B3:2347:C:O2'	29:BJ:68:VAL:N	2.18	0.78
10:AJ:80:GLU:OE1	14:AN:43:ARG:HD2	1.81	0.78
2:AT:141:THR:OG1	2:AT:481:MET:HB3	1.82	0.78
27:BH:34:LEU:CD2	27:BH:149:ASN:HB3	2.11	0.78
27:BH:161:LEU:HA	27:BH:164:ILE:HG13	1.64	0.78
18:B3:1398:G:H5'	35:BP:23:LEU:HB3	1.65	0.78
46:BZ:68:VAL:O	46:BZ:69:LEU:HD23	1.83	0.78
41:BV:74:LEU:CG	41:BV:117:ILE:HG13	2.14	0.78
1:AA:1349:A:C5'	9:AI:135:SER:HB3	2.13	0.78
18:B3:1717:A:H5''	35:BP:54:VAL:CG2	2.14	0.78
30:BK:25:SER:O	30:BK:30:PRO:HD2	1.84	0.78
5:AD:58:ASP:O	5:AD:61:THR:HG22	1.84	0.78
9:AI:58:LYS:CE	9:AI:62:ILE:HG13	2.13	0.77
1:AA:320:C:H5'	1:AA:1435:G:N2	1.97	0.77
18:B3:677:C:C1'	23:BD:231:SER:N	2.46	0.77
18:B3:894:A:O5'	23:BD:57:HIS:CD2	2.37	0.77
30:BK:112:ILE:CG2	30:BK:132:ILE:HD13	2.14	0.77
21:BB:45:LYS:HB3	21:BB:71:ARG:CD	2.14	0.77
1:AA:130:A:H5''	1:AA:190(E):U:P	2.19	0.77
1:AA:190(E):U:H4'	16:AQ:109:HIS:NE2	1.34	0.77
1:AA:266:G:O3'	16:AQ:132:LYS:CB	2.31	0.77
18:B3:2526:C:O4'	18:B3:2605:G:C5'	2.13	0.77
22:BC:302:LYS:HB2	22:BC:320:PHE:CZ	2.19	0.77
22:BC:313:TYR:CZ	22:BC:333:ARG:HG2	2.18	0.77
37:BR:54:LEU:CD1	37:BR:78:VAL:HG22	2.13	0.77
37:BR:96:GLU:HG3	37:BR:97:ASP:H	1.48	0.77
31:BL:102:GLU:HG2	31:BL:168:LYS:NZ	1.98	0.77
31:BL:112:LEU:CD2	31:BL:133:LEU:HD13	2.13	0.77
35:BP:104:LEU:C	35:BP:105:LEU:HD22	2.05	0.77
1:AA:401:C:C2	1:AA:622:A:C4	2.72	0.77
27:BH:18:VAL:HA	27:BH:26:LYS:HZ2	1.48	0.77
27:BH:43:VAL:CG1	32:BM:127:ARG:CD	2.54	0.77
27:BH:43:VAL:HG12	32:BM:126:LEU:HB2	1.56	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:778:G:H3'	11:AK:126:ARG:HD2	1.65	0.77
46:BZ:62:LYS:HB2	46:BZ:62:LYS:HZ3	1.48	0.77
40:BU:52:ARG:O	40:BU:70:ILE:HG22	1.84	0.77
1:AA:239:U:H3'	1:AA:240:C:N3	1.98	0.77
20:BA:120:VAL:HG22	20:BA:121:PRO:HD3	1.66	0.77
32:BM:7:VAL:HB	32:BM:115:LYS:CG	2.04	0.77
7:AG:161:VAL:HG22	7:AG:165:ARG:HD2	1.64	0.77
17:AS:64:LYS:HD3	17:AS:65:LEU:N	1.98	0.77
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.84	0.77
1:AA:1329:A:C4	13:AM:97:ASP:OD1	2.38	0.77
1:AA:988:G:H1'	1:AA:1014:A:H3'	0.78	0.77
1:AA:1298:C:H42	7:AG:184:ARG:HH11	0.79	0.77
13:AM:37:GLY:HA3	13:AM:101:LEU:HD22	1.66	0.77
9:AI:49:GLU:O	9:AI:53:LEU:HD23	1.83	0.77
10:AJ:49:ASN:OD1	10:AJ:99:ILE:HG12	1.83	0.77
18:B3:1351:G:C8	23:BD:108:TRP:CZ3	2.71	0.77
18:B3:672:G:N9	23:BD:214:ILE:CG2	2.43	0.77
18:B3:677:C:H5'	23:BD:232:LEU:HB2	1.66	0.77
18:B3:1350:U:H6	23:BD:43:LYS:CD	1.81	0.77
34:BO:66:ARG:HB3	34:BO:66:ARG:CZ	2.13	0.77
18:B3:953:G:C5'	36:BQ:13:TYR:HD2	1.83	0.77
18:B3:2668:G:C3'	22:BC:128:ALA:CB	2.62	0.77
18:B3:2846:C:O2'	22:BC:172:GLN:CD	2.22	0.77
22:BC:41:ALA:HB3	22:BC:42:LEU:HD12	1.65	0.77
22:BC:74:ALA:HB1	22:BC:322:MET:SD	2.24	0.77
28:BI:10:ARG:HB3	28:BI:59:GLN:O	1.84	0.77
31:BL:189:THR:CG2	31:BL:194:ASN:HA	2.15	0.77
31:BL:13:LYS:CA	31:BL:18:LEU:HD23	2.11	0.77
38:BS:51:TRP:HA	38:BS:51:TRP:CE3	2.18	0.77
18:B3:2214:A:C2'	20:BA:106:LYS:CB	2.60	0.77
5:AD:99:LEU:HD13	5:AD:101:VAL:CA	2.13	0.77
1:AA:552:U:H1'	12:AL:48:HIS:CA	2.12	0.77
1:AA:1370:G:P	9:AI:123:PRO:HG2	2.25	0.77
18:B3:1117:A:P	18:B3:1138:G:O6	2.40	0.77
27:BH:63:LYS:HB2	32:BM:131:GLY:N	1.98	0.77
32:BM:74:ALA:O	32:BM:78:ILE:HD13	1.85	0.77
1:AA:677:U:H5'	11:AK:127:LYS:HZ1	1.48	0.77
35:BP:21:VAL:HG23	35:BP:22:TRP:CZ3	2.19	0.77
46:BZ:82:LEU:H	46:BZ:82:LEU:HD23	1.49	0.77
40:BU:54:ASP:OD1	40:BU:109:LEU:HA	1.84	0.77
40:BU:14:LYS:HE2	40:BU:15:ALA:H	1.48	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1529:G:C5'	21:BB:69:ARG:HH11	1.96	0.77
6:AE:75:LEU:CD2	6:AE:132:LYS:HE2	2.14	0.77
31:BL:30:ARG:CZ	31:BL:31:GLN:H	1.97	0.77
17:AS:56:PHE:HB2	17:AS:80:MET:SD	2.25	0.77
1:AA:1221:G:OP1	17:AS:96:ILE:HD12	1.84	0.77
1:AA:1118:C:H4'	9:AI:118:ALA:HB3	1.63	0.77
24:BE:49:TYR:HE1	24:BE:65:ILE:HA	1.49	0.77
18:B3:35:U:O2'	23:BD:48:ALA:N	2.17	0.77
18:B3:664:U:H4'	23:BD:114:HIS:CB	2.13	0.77
23:BD:180:VAL:HG11	23:BD:222:PRO:C	2.04	0.77
45:BY:15:HIS:CE1	45:BY:25:SER:HA	2.19	0.77
18:B3:1182:U:H5''	30:BK:104:ILE:H	1.48	0.77
21:BB:68:TYR:O	21:BB:71:ARG:HG2	1.84	0.77
18:B3:1098:A:P	25:BF:216:PRO:CA	2.71	0.77
18:B3:1286:A:OP1	25:BF:156:ASN:N	2.16	0.77
18:B3:1067:A:H4'	25:BF:94:ILE:CG2	2.14	0.77
18:B3:1191:G:O6	18:B3:1207:A:N1	2.05	0.77
18:B3:72:C:H5'	44:BX:49:LYS:O	1.82	0.77
18:B3:2826:G:N9	22:BC:124:SER:N	2.32	0.77
22:BC:185:GLY:H	22:BC:190:LYS:CE	1.97	0.77
22:BC:217:ILE:HD11	22:BC:337:LEU:CB	2.08	0.77
37:BR:93:LEU:HB2	38:BS:21:PHE:CG	2.19	0.77
10:AJ:73:GLY:HA2	14:AN:25:SER:C	2.03	0.77
46:BZ:66:LYS:HE2	46:BZ:66:LYS:N	1.99	0.77
46:BZ:9:THR:HB	46:BZ:19:HIS:CB	2.13	0.77
18:B3:905:C:C2'	18:B3:1329:A:H4'	2.13	0.77
1:AA:545:C:O5'	5:AD:30:LEU:HD11	1.85	0.77
1:AA:581:G:OP1	15:AO:119:SER:HB3	1.84	0.77
4:AC:137:VAL:HA	4:AC:183:ILE:HD12	1.67	0.77
16:AQ:75:VAL:CG2	16:AQ:84:VAL:HG13	2.15	0.77
20:BA:24:LYS:HD2	20:BA:25:LYS:N	1.97	0.77
1:AA:1320:C:O2'	13:AM:122:HIS:CE1	2.24	0.77
1:AA:1177:G:C3'	9:AI:105:LYS:CD	2.40	0.77
10:AJ:42:VAL:O	10:AJ:46:GLU:HG2	1.84	0.77
19:B4:68:G:C2	24:BE:11:ALA:CB	2.66	0.77
18:B3:2415:A:C2	24:BE:35:ARG:NH2	2.52	0.77
18:B3:1019:C:H5''	36:BQ:78:LYS:CE	2.15	0.77
1:AA:333:G:N2	1:AA:1435:G:O3'	2.17	0.77
33:BN:117:GLN:CB	33:BN:146:GLU:H	1.96	0.77
18:B3:749:C:O2'	23:BD:116:GLU:OE1	2.01	0.77
34:BO:137:THR:C	34:BO:138:LEU:HD12	2.04	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:53:PHE:HE1	30:BK:86:LYS:HD3	1.49	0.77
18:B3:1855:G:N1	21:BB:150:PRO:CD	2.43	0.77
21:BB:56:PRO:HG2	47:B9:51:ALA:HB3	1.65	0.77
21:BB:138:HIS:HD2	21:BB:145:THR:HA	1.49	0.77
18:B3:2124:G:H1'	21:BB:229:VAL:HG11	1.64	0.77
18:B3:1025:C:C4'	25:BF:104:LEU:HD12	2.14	0.77
18:B3:1287:A:H2	25:BF:106:ARG:HH11	0.79	0.77
1:AA:190(E):U:C5	16:AQ:134:VAL:HG22	2.17	0.77
22:BC:162:HIS:HA	22:BC:177:LEU:CG	2.14	0.77
22:BC:39:PRO:HB3	22:BC:183:ASN:C	2.05	0.77
18:B3:2737:C:C6	35:BP:60:SER:C	2.58	0.77
20:BA:43:PRO:CD	20:BA:132:GLY:HA2	2.14	0.77
18:B3:123:U:C3'	39:BT:87:MET:HG2	2.14	0.77
18:B3:762:C:H41	41:BV:23:LYS:NZ	1.80	0.77
18:B3:165:A:H5''	41:BV:31:ARG:H	1.48	0.77
18:B3:2580:G:H5'	18:B3:2680:A:C6	2.18	0.77
18:B3:1116:U:HO2'	18:B3:1118:A:H2	1.31	0.77
32:BM:8:ILE:HD12	32:BM:18:LEU:HD21	1.66	0.77
6:AE:204:ARG:O	6:AE:209:THR:HG23	1.84	0.77
41:BV:5:THR:HG22	41:BV:7:THR:HG22	1.67	0.77
2:AT:748:ASN:HB2	18:B3:2508:C:C2	2.19	0.77
5:AD:26:ALA:CB	5:AD:70:LEU:HD21	2.15	0.77
4:AC:102:GLU:HG2	4:AC:172:ARG:HD2	1.64	0.77
22:BC:211:ASN:HB3	22:BC:350:LEU:O	1.84	0.77
32:BM:91:THR:HG23	32:BM:95:LYS:HZ2	1.49	0.77
23:BD:38:PHE:HZ	23:BD:241:ALA:HA	1.48	0.77
34:BO:127:LEU:HD13	34:BO:127:LEU:O	1.85	0.77
18:B3:1359:U:H4'	23:BD:91:ASN:ND2	1.98	0.77
45:BY:15:HIS:NE2	45:BY:25:SER:HA	1.99	0.77
30:BK:85:LEU:CD1	30:BK:102:GLY:HA3	2.15	0.77
18:B3:782:G:C5'	21:BB:189:ARG:NH1	2.44	0.77
18:B3:1285:U:C4'	25:BF:155:ILE:HG21	2.15	0.77
1:AA:129(A):G:H2'	16:AQ:125:GLY:C	2.04	0.77
22:BC:165:ILE:HG12	22:BC:171:ALA:CB	2.15	0.77
22:BC:223:HIS:CD2	22:BC:269:ARG:HD2	2.19	0.77
22:BC:307:MET:O	22:BC:362:SER:HA	1.83	0.77
31:BL:188:LYS:HG3	31:BL:189:THR:H	1.47	0.77
18:B3:2336:G:H4'	29:BJ:101:PHE:CD1	2.19	0.77
18:B3:2348:C:O4'	29:BJ:17:VAL:CG2	2.24	0.77
18:B3:2345:A:O3'	29:BJ:48:LYS:HD3	1.83	0.77
1:AA:35:G:C4'	12:AL:128:SER:CB	2.63	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:87:VAL:HG12	12:AL:124:VAL:HG21	1.66	0.77
1:AA:64:G:N2	1:AA:73:C:N4	2.33	0.77
2:AT:138:GLN:NE2	18:B3:2698:G:H5'	1.99	0.77
2:AT:141:THR:O	2:AT:483:PHE:HD2	1.64	0.77
18:B3:2575:C:O2'	18:B3:2775:A:H1'	1.85	0.77
27:BH:57:VAL:CG2	32:BM:126:LEU:CD1	2.42	0.77
43:BW:13:ILE:CD1	43:BW:17:LYS:HE2	2.14	0.77
18:B3:905:C:H5''	41:BV:11:ARG:NE	1.68	0.77
18:B3:1267:C:O2'	42:B0:61:LYS:HG3	1.82	0.77
43:BW:77:LYS:HD3	43:BW:79:ASN:HD22	1.49	0.77
1:AA:243:A:C4'	1:AA:244:U:H5'	2.12	0.77
18:B3:1739:G:C4'	18:B3:2726:U:H3	1.96	0.77
18:B3:1739:G:C4'	18:B3:2726:U:N3	2.46	0.77
1:AA:839:U:O2	1:AA:839:U:H2'	1.84	0.77
13:AM:17:LEU:HG	13:AM:70:VAL:HG22	1.66	0.77
13:AM:86:LEU:HD12	13:AM:88:ARG:O	1.85	0.77
9:AI:19:ALA:CB	9:AI:83:ALA:HB1	2.14	0.77
10:AJ:44:ASN:HB3	10:AJ:102:ARG:CG	2.15	0.77
24:BE:113:LEU:HD22	24:BE:114:GLY:N	2.00	0.77
18:B3:659:A:P	34:BO:107:THR:HB	2.25	0.77
18:B3:2101:A:H3'	23:BD:66:THR:CA	1.93	0.77
45:BY:30:LYS:C	45:BY:31:LYS:HD3	2.05	0.77
18:B3:1167:G:C1'	30:BK:111:GLU:N	2.47	0.77
47:B9:24:GLN:HG3	47:B9:25:VAL:HG23	1.65	0.77
47:B9:55:THR:OG1	47:B9:62:THR:HA	1.83	0.77
47:B9:32:GLN:HG3	47:B9:69:THR:H	1.50	0.77
21:BB:118:LYS:HB2	21:BB:121:ASP:OD2	1.85	0.77
18:B3:107:U:C6	44:BX:60:GLU:C	2.57	0.77
18:B3:2845:G:H4'	22:BC:24:ILE:HG21	0.78	0.77
18:B3:2652:U:H1'	22:BC:257:ALA:HB2	1.67	0.77
28:BI:135:ILE:HG22	28:BI:136:PHE:HD2	1.45	0.77
28:BI:18:PRO:HD3	28:BI:95:HIS:CA	2.10	0.77
31:BL:91:LEU:O	31:BL:91:LEU:HD12	1.84	0.77
18:B3:1565:C:O3'	35:BP:59:LYS:CD	2.28	0.77
19:B4:39:U:H1'	19:B4:44:A:H61	1.50	0.77
37:BR:62:VAL:HG21	37:BR:69:LEU:O	1.84	0.77
27:BH:10:ILE:HG23	27:BH:52:LEU:CD2	2.15	0.77
27:BH:68:LEU:HB3	32:BM:127:ARG:NE	1.99	0.77
1:AA:1086:U:C5'	1:AA:1389:C:C4'	2.53	0.77
1:AA:405:U:O5'	5:AD:37:LYS:CE	2.24	0.77
1:AA:947:G:H5''	13:AM:143:ARG:HH21	1.47	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2676:C:P	32:BM:73:ARG:HD2	2.24	0.77
18:B3:1154:A:O3'	18:B3:1156:C:O3'	1.98	0.77
1:AA:351:G:H4'	1:AA:352:C:OP1	1.83	0.77
18:B3:281:U:H2'	18:B3:282:C:O4'	1.84	0.77
8:AH:82:ILE:HD11	8:AH:85:ILE:HG22	1.67	0.77
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.20	0.77
36:BQ:31:LEU:HD13	36:BQ:31:LEU:O	1.84	0.77
1:AA:1318:A:O2'	17:AS:83:MET:HA	1.83	0.77
10:AJ:50:LEU:HD22	10:AJ:94:GLU:O	1.85	0.77
24:BE:15:ARG:NE	24:BE:15:ARG:HA	2.00	0.77
34:BO:102:ALA:HB1	34:BO:124:LEU:CA	2.14	0.77
18:B3:1847:A:H4'	21:BB:179:LEU:O	1.64	0.77
25:BF:167:ILE:HD12	25:BF:179:SER:O	1.84	0.77
18:B3:1134:G:OP2	18:B3:1229:C:C4	2.30	0.77
18:B3:2093:G:N2	22:BC:257:ALA:O	2.17	0.77
18:B3:2820:A:C1'	22:BC:89:VAL:HB	2.15	0.77
26:BG:151:LEU:HD21	26:BG:185:LEU:CB	2.15	0.77
18:B3:1787:C:C4	18:B3:2883:A:C4'	2.59	0.77
18:B3:1805:G:C2	18:B3:2883:A:C4	2.73	0.77
18:B3:2347:C:H6	29:BJ:66:VAL:CG1	0.70	0.77
29:BJ:161:TRP:O	29:BJ:164:GLN:HG2	1.83	0.77
5:AD:100:LYS:HD2	5:AD:191:ALA:CB	2.15	0.77
18:B3:762:C:H41	41:BV:23:LYS:HE3	1.46	0.77
18:B3:2558:G:H2'	18:B3:2799:A:O2'	1.84	0.77
18:B3:2796:U:O2'	27:BH:127:PRO:CD	2.33	0.77
27:BH:75:VAL:HB	27:BH:78:MET:HE2	1.67	0.77
43:BW:61:ARG:NH1	43:BW:61:ARG:HB3	1.99	0.77
1:AA:293:G:C2'	1:AA:609:A:C2	2.65	0.77
41:BV:132:LEU:H	41:BV:132:LEU:HD23	1.49	0.77
1:AA:518:C:O2	12:AL:65:ASN:CA	2.33	0.77
1:AA:562:C:O2	12:AL:32:ARG:CG	2.32	0.77
1:AA:1286:A:H2'	1:AA:1287:A:C5'	2.14	0.77
1:AA:1234:C:H5'	1:AA:1365:G:OP1	1.85	0.77
1:AA:1298:C:C4'	13:AM:57:ARG:HH22	1.97	0.77
9:AI:99:GLN:HB2	9:AI:104:LEU:O	1.85	0.77
9:AI:21:VAL:HG13	9:AI:62:ILE:CG2	2.14	0.77
18:B3:2388:C:O2'	36:BQ:54:HIS:HD2	1.66	0.77
19:B4:49:G:C4	24:BE:93:THR:O	2.37	0.77
33:BN:123:LYS:HA	33:BN:142:PRO:CD	2.15	0.77
33:BN:75:PHE:O	33:BN:77:VAL:HG22	1.85	0.77
23:BD:160:LYS:CE	23:BD:162:LYS:HB3	2.15	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:221:VAL:HG11	23:BD:224:VAL:CB	2.15	0.77
34:BO:74:GLU:HB2	34:BO:138:LEU:HD23	1.63	0.77
23:BD:73:ILE:HB	23:BD:75:ARG:N	2.00	0.77
18:B3:72:C:C4'	44:BX:49:LYS:HZ1	1.95	0.77
22:BC:118:TYR:HA	22:BC:132:TYR:HB2	1.66	0.77
26:BG:209:ALA:O	26:BG:213:LEU:HG	1.83	0.77
31:BL:173:ILE:HD12	31:BL:174:ASN:OD1	1.85	0.77
31:BL:5:TYR:CA	31:BL:8:GLU:HB3	2.06	0.77
29:BJ:31:ARG:HE	29:BJ:34:LYS:HE2	1.48	0.77
18:B3:2345:A:C5'	29:BJ:48:LYS:CE	2.62	0.77
20:BA:54:LYS:HD3	20:BA:150:ASP:OD1	1.83	0.77
20:BA:151:VAL:CA	20:BA:158:GLN:NE2	2.42	0.77
1:AA:70:G:H22	1:AA:101:A:N6	1.76	0.77
27:BH:64:HIS:CB	32:BM:127:ARG:CB	2.50	0.77
1:AA:1375:A:N6	7:AG:76:TYR:CE2	2.53	0.77
40:BU:34:PRO:O	40:BU:106:ILE:HG12	1.84	0.77
40:BU:58:VAL:CG2	40:BU:63:LYS:HG2	2.07	0.77
1:AA:17:U:C4	1:AA:916:G:C6	2.69	0.77
18:B3:905:C:C5'	41:BV:11:ARG:HE	1.67	0.77
41:BV:97:THR:HG21	41:BV:124:VAL:HA	1.65	0.77
41:BV:98:ALA:HB1	41:BV:99:PRO:HD2	1.67	0.77
20:BA:114:GLU:HG2	20:BA:137:PRO:CB	2.12	0.77
18:B3:1148:C:H5'	18:B3:1148:C:H6	1.49	0.77
10:AJ:55:PRO:HA	10:AJ:91:ILE:CG1	2.10	0.77
18:B3:26:U:O2	18:B3:1319:G:N3	2.18	0.77
18:B3:520:A:H5'	18:B3:1322:G:P	2.24	0.77
18:B3:672:G:OP1	23:BD:214:ILE:HD12	1.85	0.77
18:B3:659:A:OP1	34:BO:107:THR:CG2	2.33	0.77
34:BO:83:VAL:HG12	34:BO:140:LEU:O	1.84	0.77
18:B3:1183:C:H1'	30:BK:104:ILE:HD12	1.65	0.77
18:B3:2820:A:C5'	22:BC:102:THR:N	2.46	0.77
22:BC:14:GLY:H	22:BC:16:LEU:CD1	1.97	0.77
22:BC:48:TYR:HB2	22:BC:335:VAL:HA	1.66	0.77
22:BC:88:VAL:HG22	22:BC:157:VAL:CG2	2.15	0.77
26:BG:104:LYS:HD2	26:BG:109:THR:OG1	1.85	0.77
31:BL:65:VAL:HB	31:BL:66:ARG:NH1	1.96	0.77
31:BL:69:ASN:HD21	31:BL:92:LYS:HB3	1.49	0.77
18:B3:2336:G:C4'	29:BJ:101:PHE:CD1	2.67	0.77
18:B3:2334:C:H1'	29:BJ:114:LYS:N	1.99	0.77
18:B3:2349:G:H5''	29:BJ:15:LYS:HD2	1.66	0.77
20:BA:73:ASP:OD1	20:BA:144:LEU:HD21	1.85	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:G:H5'	1:AA:173:U:H3	1.49	0.77
37:BR:67:PRO:HB2	37:BR:69:LEU:HD23	1.66	0.77
18:B3:2796:U:O3'	27:BH:127:PRO:CG	2.26	0.77
27:BH:43:VAL:CG1	32:BM:126:LEU:HA	1.86	0.77
27:BH:43:VAL:HG11	32:BM:127:ARG:HD2	1.67	0.77
46:BZ:72:GLU:HA	46:BZ:79:ARG:HG3	1.67	0.77
1:AA:20:U:H5'	1:AA:573:A:N6	1.96	0.77
1:AA:436:C:C4'	1:AA:496:A:OP1	2.23	0.77
11:AK:47:VAL:C	11:AK:52:ASP:HB3	2.05	0.77
16:AQ:90:LEU:CD1	16:AQ:101:LYS:HB3	2.14	0.77
6:AE:107:ASN:CB	6:AE:143:TRP:H	1.98	0.77
1:AA:1224:G:H4'	13:AM:139:LYS:CB	2.15	0.77
1:AA:950:U:P	13:AM:140:THR:HG1	2.08	0.77
1:AA:1299:A:O3'	13:AM:26:ILE:CD1	2.33	0.77
18:B3:542:A:OP2	42:B0:15:LYS:N	2.17	0.77
36:BQ:64:VAL:HG23	36:BQ:73:GLY:O	1.84	0.77
33:BN:59:PHE:CD2	33:BN:81:ARG:HD3	2.20	0.77
18:B3:1309:U:H6	23:BD:204:PRO:CD	1.93	0.77
18:B3:517:U:OP1	18:B3:1339:G:OP1	2.02	0.77
18:B3:35:U:H5''	23:BD:104:THR:HG21	1.64	0.77
23:BD:135:LEU:HB3	23:BD:139:HIS:CE1	2.20	0.77
34:BO:122:ILE:HD13	34:BO:126:GLN:CB	2.03	0.77
18:B3:890:C:O2'	45:BY:48:TRP:O	1.98	0.77
18:B3:2668:G:O3'	22:BC:128:ALA:HB1	1.85	0.77
18:B3:2672:C:H5'	22:BC:31:PHE:CZ	2.20	0.77
18:B3:2036:C:H5''	37:BR:48:ARG:NH2	2.00	0.77
26:BG:115:VAL:HG23	26:BG:214:VAL:HG12	1.65	0.77
31:BL:26:VAL:HA	31:BL:29:TYR:HB2	1.66	0.77
31:BL:63:VAL:HG12	31:BL:64:ARG:O	1.85	0.77
29:BJ:33:SER:HA	29:BJ:36:LEU:HD23	1.64	0.77
29:BJ:70:VAL:HG12	29:BJ:75:ALA:CB	2.15	0.77
2:AT:111:PHE:HE2	2:AT:483:PHE:CD2	1.98	0.77
37:BR:28:ASN:HB2	37:BR:102:ILE:HD12	1.66	0.77
27:BH:12:VAL:HG13	27:BH:13:PRO:CD	2.13	0.77
27:BH:21:LYS:H	27:BH:24:ILE:CD1	1.96	0.77
1:AA:1503:A:OP1	1:AA:1531:A:C5	2.38	0.77
40:BU:14:LYS:HD2	40:BU:17:LYS:CD	2.14	0.77
18:B3:2319:C:P	46:BZ:1:VAL:HG21	2.24	0.77
11:AK:11:GLN:O	11:AK:12:VAL:HG12	1.86	0.77
33:BN:126:ARG:CB	33:BN:137:LYS:HB2	2.15	0.77
24:BE:54:ARG:HB2	24:BE:61:ILE:HG22	1.66	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1149:U:H5''	18:B3:1151:G:O4'	1.84	0.77
1:AA:990:C:HO2'	1:AA:1017:G:P	2.05	0.76
17:AS:89:MET:HB2	17:AS:107:ILE:HD11	1.66	0.76
1:AA:1220:G:P	17:AS:80:MET:HB3	2.24	0.76
18:B3:843:A:N1	33:BN:132:HIS:ND1	2.33	0.76
7:AG:110:VAL:HG21	9:AI:43:LEU:CB	2.15	0.76
36:BQ:40:VAL:HG12	36:BQ:41:ASP:O	1.85	0.76
33:BN:39:GLU:HG3	33:BN:41:THR:H	1.50	0.76
33:BN:59:PHE:CE1	33:BN:79:LYS:HG3	2.20	0.76
18:B3:1342:C:N4	23:BD:186:LEU:HB3	1.99	0.76
23:BD:31:PRO:HA	23:BD:34:VAL:CG2	2.16	0.76
34:BO:102:ALA:HB1	34:BO:124:LEU:HA	1.67	0.76
34:BO:37:ALA:CB	34:BO:46:LYS:HB2	2.15	0.76
18:B3:1869:A:O2'	21:BB:192:ARG:NH2	2.18	0.76
25:BF:99:ARG:N	25:BF:102:LEU:HD13	1.99	0.76
1:AA:190(D):U:H3	16:AQ:112:PRO:HD3	1.51	0.76
18:B3:2809:G:C4'	22:BC:16:LEU:O	2.33	0.76
28:BI:72:ALA:O	28:BI:76:MET:HG2	1.85	0.76
37:BR:93:LEU:CB	38:BS:21:PHE:HA	1.97	0.76
26:BG:153:ALA:HB3	26:BG:196:VAL:HG12	1.66	0.76
38:BS:46:PRO:HA	38:BS:49:ILE:HD11	1.66	0.76
1:AA:1240:U:H5''	7:AG:188:THR:HA	1.63	0.76
18:B3:2346:C:C1'	29:BJ:64:ILE:HG13	2.14	0.76
29:BJ:77:GLU:O	29:BJ:78:ILE:HG23	1.84	0.76
18:B3:124:C:O5'	39:BT:88:LYS:NZ	2.18	0.76
6:AE:215:VAL:HG23	8:AH:129:TYR:OH	1.83	0.76
1:AA:25:C:P	12:AL:39:LYS:HE3	2.25	0.76
1:AA:67:C:C4	1:AA:70:G:O6	2.37	0.76
18:B3:2853:U:C5'	22:BC:170:LEU:HD23	2.10	0.76
40:BU:99:LEU:HD13	40:BU:100:HIS:CE1	2.20	0.76
18:B3:2434:A:OP2	46:BZ:35:PHE:CD1	2.38	0.76
4:AC:100:GLN:HG3	4:AC:125:VAL:HG21	1.66	0.76
4:AC:116:ARG:HA	4:AC:119:TYR:HD2	1.48	0.76
4:AC:104:MET:SD	4:AC:135:VAL:HG11	2.26	0.76
18:B3:506:G:H22	18:B3:509:A:C5'	1.97	0.76
18:B3:178:U:O3'	45:BY:47:ASN:HB2	1.85	0.76
1:AA:1321:C:H1'	17:AS:120:SER:N	2.00	0.76
1:AA:1329:A:C2'	13:AM:90:ASN:ND2	2.48	0.76
18:B3:1018:A:H1'	36:BQ:60:LYS:HA	1.67	0.76
19:B4:47:A:C4'	24:BE:160:PHE:CE2	2.60	0.76
18:B3:2047:C:O3'	33:BN:68:ARG:NH2	2.06	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:88:LYS:HE3	33:BN:89:PHE:CD2	2.21	0.76
18:B3:646:G:H5''	23:BD:106:ARG:HH22	1.49	0.76
23:BD:27:ALA:HB3	23:BD:126:ALA:CB	2.15	0.76
18:B3:1870:C:O3'	21:BB:192:ARG:CB	2.18	0.76
21:BB:237:ILE:HG22	21:BB:238:ALA:H	1.49	0.76
25:BF:184:ILE:H	25:BF:184:ILE:HD13	1.50	0.76
19:B4:86:G:P	25:BF:218:LYS:HZ2	2.07	0.76
1:AA:129:U:O3'	16:AQ:127:CYS:O	2.01	0.76
1:AA:190(D):U:N3	16:AQ:112:PRO:HD3	2.00	0.76
18:B3:1742:A:C8	18:B3:2723:G:C4'	2.65	0.76
18:B3:2898:G:OP1	22:BC:312:HIS:O	2.04	0.76
37:BR:11:PHE:CE2	37:BR:121:GLU:HG3	2.20	0.76
37:BR:96:GLU:HG3	37:BR:97:ASP:OD1	1.85	0.76
18:B3:183:A:O4'	31:BL:158:ARG:NH1	2.18	0.76
20:BA:50:SER:HB3	20:BA:150:ASP:CG	2.05	0.76
39:BT:104:VAL:HG11	39:BT:125:LEU:HD22	1.66	0.76
10:AJ:68:ARG:HB3	14:AN:39:ARG:HB2	0.79	0.76
6:AE:169:ILE:HD13	6:AE:170:PRO:N	2.00	0.76
8:AH:102:ILE:HD11	8:AH:109:ILE:HD12	1.66	0.76
1:AA:25:C:C4'	12:AL:109:ARG:HD2	2.16	0.76
37:BR:61:THR:HG23	37:BR:72:LYS:CB	2.12	0.76
18:B3:1118:A:O4'	18:B3:1227:C:N4	2.18	0.76
27:BH:57:VAL:CB	32:BM:126:LEU:HD12	2.14	0.76
18:B3:1119:G:C5'	32:BM:48:ARG:NE	2.31	0.76
1:AA:1496:C:C5'	18:B3:1962:G:P	2.64	0.76
1:AA:1343:G:O4'	9:AI:138:GLN:N	2.18	0.76
1:AA:924:C:O2'	1:AA:1399:C:P	2.42	0.76
18:B3:2396:C:C2'	41:BV:46:LYS:HE2	2.15	0.76
20:BA:8:GLN:HB3	20:BA:216:LEU:HD11	1.67	0.76
1:AA:956:U:O4'	17:AS:126:VAL:CB	2.21	0.76
1:AA:989:C:O2	1:AA:1016:A:C1'	2.32	0.76
13:AM:88:ARG:NH1	13:AM:115:ARG:HH12	1.81	0.76
1:AA:1319:A:N7	17:AS:49:MET:HE3	2.00	0.76
24:BE:146:LEU:CD1	24:BE:163:LEU:HB2	2.15	0.76
34:BO:81:VAL:HG22	34:BO:101:VAL:HG21	1.65	0.76
34:BO:79:LYS:HB2	34:BO:136:ASN:O	1.85	0.76
47:B9:47:LYS:HZ2	47:B9:48:ARG:HH11	1.33	0.76
21:BB:82:HIS:CB	47:B9:62:THR:O	2.34	0.76
21:BB:57:LEU:HD22	21:BB:76:ILE:CA	2.11	0.76
22:BC:18:ARG:HA	22:BC:18:ARG:CZ	2.15	0.76
22:BC:18:ARG:NH1	22:BC:18:ARG:HA	2.01	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:274:ARG:HD3	22:BC:274:ARG:O	1.86	0.76
18:B3:2820:A:C1'	22:BC:89:VAL:CG1	2.56	0.76
26:BG:105:LYS:HB2	26:BG:108:LEU:HD23	1.67	0.76
31:BL:158:ARG:NH1	31:BL:158:ARG:HB3	2.00	0.76
18:B3:391:U:O3'	31:BL:195:THR:O	2.03	0.76
18:B3:2347:C:C6	29:BJ:66:VAL:HG13	1.14	0.76
18:B3:2334:C:H1'	29:BJ:112:GLY:O	1.85	0.76
18:B3:2334:C:O4'	29:BJ:113:ILE:C	2.22	0.76
18:B3:2335:C:N3	29:BJ:116:ASP:HB3	1.56	0.76
29:BJ:13:ILE:HD12	29:BJ:13:ILE:O	1.85	0.76
39:BT:69:GLU:HA	39:BT:72:MET:SD	2.25	0.76
10:AJ:72:ASN:OD1	14:AN:26:HIS:C	2.23	0.76
10:AJ:78:THR:HG23	14:AN:39:ARG:CB	2.15	0.76
10:AJ:69:LYS:C	14:AN:42:PHE:HB3	1.88	0.76
5:AD:100:LYS:HB3	5:AD:191:ALA:HB3	1.68	0.76
1:AA:11:G:H21	1:AA:525:C:H4'	1.51	0.76
1:AA:24:U:C3'	12:AL:39:LYS:HE3	2.13	0.76
37:BR:30:GLY:HA3	37:BR:67:PRO:CG	2.15	0.76
18:B3:1227:C:OP1	32:BM:48:ARG:NH2	2.18	0.76
18:B3:1243:C:OP1	32:BM:42:ILE:CG2	2.32	0.76
1:AA:678:U:C1'	11:AK:125:THR:HG22	2.15	0.76
18:B3:1385:G:H4'	43:BW:49:ARG:C	2.05	0.76
1:AA:1375:A:N6	7:AG:76:TYR:OH	2.17	0.76
18:B3:1300:G:C6	18:B3:1330:A:C2	2.74	0.76
4:AC:121:VAL:HG23	4:AC:135:VAL:HG21	1.66	0.76
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.19	0.76
1:AA:1222:G:P	17:AS:81:ARG:NH1	2.58	0.76
18:B3:663:C:C3'	23:BD:115:ASN:CG	2.32	0.76
23:BD:30:ARG:CZ	23:BD:31:PRO:HD2	2.15	0.76
18:B3:2274:A:H2'	31:BL:80:TYR:HB3	1.66	0.76
18:B3:1164:U:P	30:BK:50:THR:C	2.63	0.76
21:BB:224:ILE:HD13	21:BB:225:SER:H	1.50	0.76
25:BF:117:LYS:O	25:BF:122:THR:HG21	1.86	0.76
25:BF:164:ASP:HA	25:BF:179:SER:O	1.86	0.76
18:B3:1191:G:N2	18:B3:1207:A:H1'	1.99	0.76
18:B3:107:U:C5'	44:BX:57:VAL:O	2.31	0.76
18:B3:2669:U:C4'	22:BC:130:THR:HA	2.14	0.76
18:B3:2819:C:O2'	22:BC:91:TYR:CD2	2.38	0.76
22:BC:87:GLY:HA2	22:BC:104:VAL:HG21	1.68	0.76
18:B3:2134:G:H22	18:B3:2241:C:N4	1.82	0.76
18:B3:1815:A:N7	18:B3:2733:U:O2	2.17	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:109:ARG:HH11	35:BP:109:ARG:HG2	1.49	0.76
35:BP:117:HIS:HB2	35:BP:118:LEU:HD12	1.67	0.76
18:B3:2350:G:C6	29:BJ:115:TYR:CD2	2.74	0.76
29:BJ:14:GLU:OE2	29:BJ:129:VAL:HG13	1.86	0.76
20:BA:108:ASN:OD1	20:BA:162:VAL:CG2	2.18	0.76
14:AN:37:ILE:HG22	14:AN:41:CYS:N	2.01	0.76
1:AA:861:G:H5'	8:AH:18:LYS:CE	2.16	0.76
27:BH:71:VAL:CG2	32:BM:127:ARG:HH12	1.98	0.76
40:BU:57:LEU:O	40:BU:57:LEU:HD12	1.85	0.76
1:AA:119:A:C2	1:AA:238:G:C2'	2.55	0.76
1:AA:239:U:C5	1:AA:240:C:C5	2.74	0.76
42:B0:60:ASN:OD1	42:B0:63:THR:HB	1.84	0.76
40:BU:13:ARG:HA	40:BU:16:ARG:NH2	2.00	0.76
1:AA:1443:G:C5'	1:AA:1446:A:H5'	2.13	0.76
1:AA:1302:U:OP1	13:AM:54:LEU:HB3	1.86	0.76
13:AM:91:ASP:CA	13:AM:109:LEU:CA	2.53	0.76
33:BN:134:ARG:NH1	33:BN:134:ARG:HA	2.00	0.76
18:B3:618:G:N9	42:B0:46:PHE:O	2.18	0.76
18:B3:449:A:H5'	18:B3:1306:U:O4'	1.81	0.76
18:B3:750:A:C4'	23:BD:116:GLU:HB2	2.15	0.76
23:BD:37:VAL:O	23:BD:234:LEU:HD23	1.86	0.76
23:BD:149:LEU:HD22	23:BD:246:PHE:CE2	2.20	0.76
23:BD:208:TYR:HD1	23:BD:248:ILE:HG21	1.48	0.76
23:BD:30:ARG:HA	23:BD:30:ARG:CZ	2.14	0.76
23:BD:30:ARG:NH2	23:BD:31:PRO:HD2	2.01	0.76
34:BO:64:VAL:O	34:BO:91:ALA:HB3	1.84	0.76
45:BY:19:ASN:O	45:BY:20:ARG:HD2	1.85	0.76
45:BY:31:LYS:HB2	45:BY:31:LYS:HZ3	1.51	0.76
21:BB:113:SER:HB3	21:BB:168:ILE:HD11	1.66	0.76
21:BB:149:LEU:HD12	21:BB:153:ALA:CB	2.16	0.76
21:BB:173:ARG:NH2	21:BB:174:VAL:HG13	2.00	0.76
18:B3:949:U:H4'	36:BQ:100:LYS:HA	1.68	0.76
18:B3:2721:U:O2	37:BR:83:LYS:NZ	2.18	0.76
22:BC:255:HIS:HB3	22:BC:256:PRO:HD3	1.68	0.76
18:B3:2806:C:O2'	22:BC:277:ILE:HD13	1.85	0.76
31:BL:168:LYS:HD2	31:BL:169:LYS:HZ2	1.50	0.76
10:AJ:71:PRO:HD3	14:AN:36:ASN:OD1	1.83	0.76
1:AA:11:G:H1'	1:AA:525:C:H1'	1.67	0.76
27:BH:102:ASN:H	27:BH:113:GLU:CB	1.99	0.76
18:B3:2382:A:H4'	46:BZ:12:LYS:HB3	1.67	0.76
18:B3:2457:U:H1'	46:BZ:81:GLN:HG3	1.65	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:219:PHE:H	24:BE:221:GLU:HG3	1.50	0.76
17:AS:67:ALA:HB3	17:AS:68:PRO:HD3	1.68	0.76
1:AA:988:G:H3'	1:AA:1014:A:N7	1.98	0.76
1:AA:1219:U:C3'	17:AS:59:LYS:N	2.48	0.76
42:B0:41:VAL:HG13	42:B0:42:VAL:H	1.48	0.76
18:B3:1088:A:H4'	18:B3:1089:G:OP1	1.85	0.76
19:B4:37:C:O2	24:BE:154:THR:HG21	1.82	0.76
24:BE:65:ILE:CD1	24:BE:75:LEU:HB3	2.16	0.76
18:B3:1370:G:C5	33:BN:24:SER:HB3	2.20	0.76
34:BO:62:VAL:HG21	34:BO:87:VAL:CA	2.16	0.76
18:B3:1847:A:C8	21:BB:180:LYS:CB	2.66	0.76
25:BF:105:LEU:CB	25:BF:107:LEU:HD11	2.16	0.76
18:B3:948:G:C2	36:BQ:100:LYS:HD3	2.15	0.76
1:AA:190(F):G:C6	1:AA:266:G:OP2	2.38	0.76
1:AA:538:G:O2'	12:AL:140:LYS:NZ	2.18	0.76
18:B3:72:C:O2'	44:BX:53:CYS:HB2	1.59	0.76
18:B3:2545:U:C2'	22:BC:238:PRO:HG2	2.16	0.76
18:B3:2718:C:P	22:BC:331:ARG:NH2	2.59	0.76
18:B3:2820:A:OP2	22:BC:101:LEU:CA	0.63	0.76
18:B3:2846:C:HO2'	22:BC:172:GLN:CD	1.88	0.76
18:B3:2846:C:C5'	22:BC:174:LYS:HE3	2.16	0.76
22:BC:220:THR:H	22:BC:272:HIS:CB	1.97	0.76
37:BR:83:LYS:O	37:BR:94:TYR:HB3	1.85	0.76
31:BL:132:ILE:HG22	31:BL:133:LEU:O	1.85	0.76
31:BL:72:ARG:HD3	31:BL:91:LEU:CD1	2.14	0.76
18:B3:2166:G:C5	20:BA:61:PRO:HD3	2.21	0.76
1:AA:642:A:C8	8:AH:106:SER:HA	2.21	0.76
3:AB:122:VAL:HG12	3:AB:144:ALA:HB2	1.68	0.76
18:B3:2579:G:H5'	18:B3:2680:A:H5'	1.66	0.76
35:BP:19:ARG:HD2	35:BP:20:LYS:N	2.01	0.76
40:BU:100:HIS:CD2	40:BU:104:LEU:HD22	2.21	0.76
40:BU:27:ARG:HA	40:BU:78:PHE:HE2	1.49	0.76
18:B3:2676:C:C5'	32:BM:73:ARG:CZ	2.62	0.76
1:AA:754:C:H1'	15:AO:127:TYR:CG	2.19	0.76
21:BB:203:MET:HB3	21:BB:207:ASP:OD2	1.85	0.76
16:AQ:90:LEU:HB3	16:AQ:99:TYR:CZ	2.21	0.76
20:BA:90:LEU:HD21	20:BA:123:LEU:HB2	1.68	0.76
18:B3:1173:A:P	30:BK:40:LYS:NZ	2.59	0.76
1:AA:1309:G:C6	13:AM:95:GLY:CA	2.44	0.76
18:B3:777:U:HO2'	45:BY:10:ARG:HG2	1.47	0.76
9:AI:33:SER:HB2	9:AI:38:VAL:CG2	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:75:LEU:HD12	24:BE:113:LEU:CD1	2.15	0.76
33:BN:104:LYS:O	33:BN:106:LEU:HD13	1.85	0.76
18:B3:26:U:H2'	18:B3:1319:G:H2'	0.77	0.76
18:B3:672:G:N3	23:BD:226:THR:O	2.17	0.76
23:BD:37:VAL:HG23	23:BD:234:LEU:HD23	1.67	0.76
18:B3:1353:C:P	23:BD:49:TYR:OH	2.42	0.76
19:B4:96:C:N3	25:BF:220:LYS:HE2	2.01	0.76
25:BF:151:GLY:HA3	25:BF:162:LEU:HD21	1.66	0.76
28:BI:31:ILE:HD12	28:BI:69:ARG:HE	1.49	0.76
18:B3:1713:G:O2'	18:B3:2745:C:C2'	2.33	0.76
29:BJ:31:ARG:HB3	29:BJ:34:LYS:HE3	1.68	0.76
29:BJ:68:VAL:HG12	29:BJ:69:THR:H	1.49	0.76
3:AB:141:PRO:HD3	8:AH:68:LEU:HD21	0.81	0.76
3:AB:23:LEU:C	3:AB:47:ILE:HG12	2.06	0.76
1:AA:402:G:H4'	5:AD:144:PRO:HB2	1.67	0.76
2:AT:108:HIS:CA	2:AT:536:LEU:CD2	2.64	0.76
32:BM:38:GLU:OE2	32:BM:39:GLU:HG3	1.85	0.76
32:BM:79:PHE:CZ	32:BM:103:VAL:HB	2.20	0.76
1:AA:777:A:H4'	11:AK:125:THR:HA	1.68	0.76
1:AA:1499:A:O5'	1:AA:1520:G:O2'	2.03	0.76
40:BU:52:ARG:HA	40:BU:70:ILE:CG2	2.15	0.76
5:AD:26:ALA:O	5:AD:30:LEU:HD23	1.86	0.76
1:AA:1483:A:H2'	18:B3:2001:G:H1'	1.68	0.76
18:B3:2663:U:C2	18:B3:2816:A:C6	2.73	0.76
1:AA:119:A:N1	1:AA:238:G:H2'	1.99	0.76
1:AA:519:C:P	12:AL:67:ALA:HA	2.24	0.76
1:AA:667:G:C1'	15:AO:109:ASP:OD1	2.33	0.76
18:B3:1811:A:C6	18:B3:2730:G:C2	2.72	0.76
32:BM:26:LEU:HD22	32:BM:97:ALA:HB1	1.66	0.76
21:BB:31:LEU:HD22	21:BB:36:ARG:CG	2.15	0.76
7:AG:85:GLN:HG3	7:AG:93:THR:CB	2.15	0.76
1:AA:1299:A:HO2'	13:AM:30:TYR:HB2	1.38	0.76
18:B3:621:C:OP2	42:B0:38:ILE:HG22	1.86	0.76
18:B3:620:A:C3'	42:B0:40:SER:HB3	2.13	0.76
1:AA:1130:A:H4'	9:AI:65:ARG:HH22	1.49	0.76
10:AJ:37:VAL:HG11	10:AJ:112:VAL:HG21	1.68	0.76
24:BE:116:ASP:O	24:BE:118:THR:HG23	1.85	0.76
24:BE:64:ILE:HD11	24:BE:144:VAL:HG21	1.68	0.76
24:BE:23:ARG:HH22	24:BE:26:GLY:HA2	1.50	0.76
24:BE:43:LYS:HG2	24:BE:44:TYR:HD1	1.51	0.76
36:BQ:30:TYR:HA	36:BQ:93:VAL:CG2	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1370:G:N1	33:BN:25:PHE:O	2.19	0.76
30:BK:125:LEU:HD13	30:BK:125:LEU:O	1.85	0.76
21:BB:103:LEU:CD1	21:BB:135:ILE:HD12	2.15	0.76
21:BB:115:VAL:CG2	21:BB:125:LEU:HB2	2.16	0.76
18:B3:1652:C:C5	21:BB:174:VAL:HG22	2.21	0.76
21:BB:226:ARG:NH1	21:BB:227:GLY:HA3	2.01	0.76
18:B3:1654:U:OP2	21:BB:49:HIS:CE1	2.39	0.76
21:BB:53:ARG:HD2	21:BB:55:ALA:H	1.49	0.76
25:BF:160:VAL:HB	25:BF:161:PRO:HD3	1.65	0.76
18:B3:1206:C:HO2'	18:B3:1207:A:C4'	1.97	0.76
18:B3:107:U:C2'	44:BX:56:THR:HA	2.15	0.76
37:BR:92:PHE:HE1	38:BS:20:LEU:HD21	1.45	0.76
18:B3:1788:U:H3'	18:B3:2882:G:C5'	2.14	0.76
18:B3:1815:A:C8	18:B3:2733:U:C2	2.69	0.76
18:B3:1806:G:C2	18:B3:2884:G:C8	2.73	0.76
18:B3:2734:G:C5'	35:BP:79:LYS:HD3	2.16	0.76
29:BJ:32:ALA:H	29:BJ:34:LYS:CE	1.99	0.76
1:AA:5:U:O2	5:AD:88:GLU:O	2.03	0.76
1:AA:61:G:O2'	1:AA:387:U:C5'	2.29	0.76
37:BR:33:ASN:OD1	37:BR:64:LYS:HB2	1.86	0.76
18:B3:1380:U:H3'	43:BW:25:LYS:HZ1	1.48	0.76
18:B3:78:G:C1'	40:BU:25:SER:OG	2.33	0.76
1:AA:1503:A:C5'	1:AA:1530:G:N3	2.45	0.76
1:AA:121:C:OP1	1:AA:235:C:OP2	2.03	0.76
22:BC:348:LYS:H	22:BC:348:LYS:HD3	1.50	0.76
1:AA:1320:C:H42	17:AS:116:LEU:CB	1.79	0.76
1:AA:979:C:C2	17:AS:56:PHE:CE2	2.73	0.76
1:AA:978:A:O2'	17:AS:81:ARG:CG	2.34	0.76
19:B4:6:C:H1'	24:BE:72:ASP:CG	2.06	0.76
24:BE:107:ARG:HG3	24:BE:226:TYR:CE1	2.20	0.76
24:BE:110:LEU:HD23	24:BE:171:LEU:N	1.99	0.76
1:AA:319:G:C2	1:AA:1434:A:N3	2.54	0.76
33:BN:63:ASN:CB	33:BN:66:ILE:HG12	2.14	0.76
18:B3:26:U:C1'	18:B3:1319:G:H2'	2.15	0.76
18:B3:677:C:H4'	23:BD:256:LYS:HE2	0.79	0.76
34:BO:122:ILE:CD1	34:BO:124:LEU:H	1.99	0.76
34:BO:88:THR:C	34:BO:110:ALA:HB2	2.06	0.76
45:BY:15:HIS:CD2	45:BY:24:ARG:HG3	2.21	0.76
18:B3:472:A:C3'	45:BY:48:TRP:CH2	2.54	0.76
18:B3:815:U:O3'	18:B3:1598:A:C4'	2.28	0.76
18:B3:1024:G:O2'	25:BF:104:LEU:HG	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2468:A:C4	46:BZ:55:PRO:CG	2.60	0.76
18:B3:2520:G:H5''	28:BI:160:PRO:CB	2.15	0.76
18:B3:2838:A:OP1	22:BC:221:LYS:HA	1.86	0.76
22:BC:354:SER:C	22:BC:355:LEU:HD13	2.07	0.76
22:BC:83:VAL:HG13	22:BC:162:HIS:O	1.86	0.76
28:BI:50:VAL:CG2	28:BI:137:SER:HB2	2.16	0.76
37:BR:83:LYS:HE2	37:BR:83:LYS:HA	1.68	0.76
18:B3:2242:U:O4	18:B3:2257:G:C6	2.39	0.76
26:BG:113:ALA:HB1	26:BG:151:LEU:CD2	2.16	0.76
31:BL:60:ILE:HD13	31:BL:60:ILE:H	1.50	0.76
18:B3:1793:C:O3'	35:BP:97:ARG:CD	2.26	0.76
35:BP:95:ILE:HD13	35:BP:95:ILE:H	1.50	0.76
29:BJ:91:ARG:NE	29:BJ:159:VAL:HG21	2.01	0.76
29:BJ:84:LYS:HB2	29:BJ:167:ASP:OD2	1.86	0.76
20:BA:109:ALA:HA	20:BA:161:LYS:CB	2.07	0.76
20:BA:77:ALA:HB1	20:BA:82:VAL:CG2	2.16	0.76
5:AD:90:LYS:CB	6:AE:172:PRO:HB2	2.16	0.76
18:B3:2578:G:C1'	18:B3:2801:A:H5''	2.16	0.76
18:B3:2575:C:H4'	18:B3:2775:A:O2'	1.86	0.76
27:BH:61:GLY:O	27:BH:65:VAL:HG23	1.86	0.76
32:BM:119:VAL:HG22	32:BM:120:PRO:HD2	1.68	0.76
27:BH:63:LYS:CD	32:BM:129:LYS:CB	1.87	0.76
18:B3:1382:G:O2'	43:BW:26:LYS:CD	2.32	0.76
40:BU:100:HIS:CD2	40:BU:104:LEU:HD13	2.20	0.76
32:BM:141:SER:HA	32:BM:144:VAL:CG1	2.15	0.76
2:AT:29:ASP:CB	18:B3:2693:U:OP1	2.34	0.76
4:AC:98:VAL:HA	4:AC:170:ALA:HB1	1.68	0.76
18:B3:326:G:N1	18:B3:330:C:H5	1.83	0.76
2:AT:149:GLU:O	2:AT:352:ARG:NH1	2.18	0.76
1:AA:1306:A:O2'	13:AM:144:ARG:CG	2.34	0.76
17:AS:58:LYS:HD3	17:AS:80:MET:HE2	1.68	0.76
18:B3:638:C:H5'	42:B0:27:ARG:HB3	1.66	0.76
18:B3:2413:A:C2	24:BE:145:PHE:HD2	2.04	0.76
19:B4:50:G:C5'	24:BE:94:ASN:CB	2.38	0.76
18:B3:1371:U:C5'	33:BN:66:ILE:HD13	2.13	0.76
18:B3:677:C:C5'	23:BD:232:LEU:O	2.33	0.76
23:BD:134:VAL:HG21	23:BD:147:ILE:HG12	1.68	0.76
23:BD:64:TRP:HZ3	23:BD:67:GLY:HA3	1.50	0.76
18:B3:1360:C:H2'	23:BD:93:CYS:O	1.85	0.76
18:B3:1653:A:C8	21:BB:186:HIS:HD2	2.04	0.76
21:BB:147:VAL:HG22	21:BB:155:LYS:O	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:16:THR:C	21:BB:192:ARG:HG2	2.06	0.76
18:B3:1067:A:H5'	25:BF:96:PRO:CG	2.16	0.76
25:BF:163:SER:O	25:BF:167:ILE:HG13	1.86	0.76
25:BF:167:ILE:CG2	25:BF:168:ILE:HD12	2.10	0.76
44:BX:31:LEU:HD13	44:BX:44:ILE:HB	1.68	0.76
18:B3:72:C:C5'	44:BX:49:LYS:HZ3	1.96	0.76
18:B3:2652:U:H2'	22:BC:257:ALA:HB3	0.77	0.76
28:BI:103:LEU:HB2	28:BI:118:ALA:H	1.49	0.76
18:B3:1006:A:H5'	28:BI:16:PRO:CB	2.15	0.76
37:BR:40:LYS:HD3	37:BR:57:MET:HB3	1.65	0.76
29:BJ:20:ILE:CG2	29:BJ:65:ALA:HB3	2.14	0.76
18:B3:2345:A:O5'	29:BJ:22:VAL:CG1	2.32	0.76
3:AB:169:ILE:HB	3:AB:173:TRP:CZ3	2.20	0.76
1:AA:449:C:C4'	5:AD:131:GLN:O	2.34	0.76
1:AA:599:C:H4'	8:AH:121:SER:HB2	0.86	0.76
3:AB:141:PRO:CG	8:AH:68:LEU:HD22	2.11	0.76
27:BH:92:TYR:HA	27:BH:179:ILE:HG22	1.67	0.76
32:BM:14:LEU:HB3	32:BM:17:ARG:HE	1.49	0.76
32:BM:85:GLY:O	32:BM:86:MET:HE2	1.86	0.76
35:BP:17:GLY:H	35:BP:20:LYS:CE	1.99	0.76
46:BZ:64:THR:OG1	46:BZ:86:ARG:HB3	1.85	0.76
1:AA:119:A:H5''	1:AA:122:G:N7	2.00	0.76
1:AA:994:A:N7	1:AA:1046:A:C2	2.54	0.76
6:AE:115:LYS:HD2	6:AE:126:ALA:O	1.85	0.76
4:AC:98:VAL:HA	4:AC:170:ALA:CB	2.16	0.76
18:B3:1529:G:H5''	21:BB:69:ARG:HH11	1.50	0.76
32:BM:93:ARG:NH2	32:BM:94:GLY:HA2	2.01	0.76
32:BM:4:PRO:HB3	32:BM:7:VAL:CG2	2.16	0.76
24:BE:22:ARG:HA	24:BE:22:ARG:NH1	2.01	0.75
19:B4:49:G:N9	24:BE:94:ASN:HA	1.54	0.75
36:BQ:75:ILE:CG2	36:BQ:89:LEU:HB3	2.15	0.75
18:B3:448:G:N3	23:BD:47:GLN:HG3	2.01	0.75
18:B3:449:A:O4'	18:B3:1306:U:C4	2.40	0.75
18:B3:449:A:O4'	18:B3:1306:U:N3	2.19	0.75
18:B3:1344:G:C4	23:BD:187:ARG:CZ	2.62	0.75
47:B9:41:CYS:O	47:B9:43:LYS:HD2	1.86	0.75
47:B9:54:TRP:HZ2	47:B9:65:GLY:HA3	1.50	0.75
19:B4:87:U:P	25:BF:219:PHE:CE1	2.59	0.75
18:B3:2862:G:O5'	22:BC:364:PHE:HZ	1.69	0.75
22:BC:33:LYS:HD3	22:BC:34:ASP:N	2.01	0.75
22:BC:45:PHE:HE1	22:BC:81:PRO:HB3	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:52:LEU:HD11	28:BI:137:SER:HA	1.67	0.75
18:B3:2123:A:C5'	31:BL:88:VAL:HG21	2.15	0.75
26:BG:116:ALA:HB2	26:BG:217:ILE:HB	1.68	0.75
18:B3:1761:U:C1'	35:BP:80:ARG:CZ	2.63	0.75
7:AG:189:ILE:HG22	7:AG:193:LEU:CD1	2.16	0.75
18:B3:2350:G:C6	29:BJ:115:TYR:CG	2.74	0.75
29:BJ:36:LEU:HD22	29:BJ:67:HIS:CD2	2.21	0.75
18:B3:1671:U:H4'	39:BT:92:TYR:CE1	2.20	0.75
4:AC:17:TYR:CE1	4:AC:38:VAL:HB	2.21	0.75
8:AH:52:ILE:HG21	8:AH:61:VAL:CG2	2.16	0.75
1:AA:45:U:OP1	1:AA:308:C:H5'	1.86	0.75
12:AL:139:LYS:O	12:AL:144:ARG:HD2	1.86	0.75
37:BR:26:ALA:HB1	37:BR:115:THR:O	1.85	0.75
9:AI:124:GLU:OE2	9:AI:134:ARG:HD3	1.86	0.75
27:BH:90:MET:O	27:BH:144:ILE:HG22	1.85	0.75
27:BH:41:ILE:HG23	32:BM:128:LEU:HD11	1.66	0.75
43:BW:68:TYR:CE2	43:BW:69:ARG:HB2	2.20	0.75
18:B3:2459:G:OP1	46:BZ:86:ARG:CZ	2.33	0.75
1:AA:1406:U:N1	1:AA:1518:A:C5'	2.46	0.75
1:AA:20:U:C5'	1:AA:573:A:N6	2.45	0.75
15:AO:91:ILE:O	15:AO:95:VAL:HG23	1.86	0.75
32:BM:92:ALA:H	32:BM:95:LYS:HZ3	1.34	0.75
18:B3:1059:G:N7	18:B3:2491:G:H1'	2.01	0.75
13:AM:15:LEU:HD23	13:AM:66:LEU:HD11	1.67	0.75
1:AA:1328:C:H2'	13:AM:96:LYS:HB3	1.68	0.75
18:B3:539:G:OP1	42:B0:23:ASP:CB	2.30	0.75
19:B4:47:A:O3'	24:BE:160:PHE:CD2	2.37	0.75
33:BN:85:LYS:HA	33:BN:85:LYS:HE3	1.66	0.75
42:B0:87:MET:HB2	42:B0:117:ILE:CA	2.09	0.75
18:B3:656:G:O2'	23:BD:33:ILE:HD11	1.86	0.75
18:B3:751:U:C5'	23:BD:36:THR:CG2	2.62	0.75
23:BD:137:ARG:HG2	23:BD:245:ARG:NH2	2.01	0.75
23:BD:180:VAL:HG12	23:BD:181:LEU:H	1.51	0.75
18:B3:656:G:OP2	34:BO:56:LYS:NZ	2.19	0.75
18:B3:1164:U:OP1	30:BK:51:LYS:N	2.19	0.75
18:B3:1939:U:C5'	21:BB:241:ARG:HG3	2.16	0.75
18:B3:2300:A:O2'	36:BQ:10:ARG:NH2	2.18	0.75
18:B3:1054:G:C5	28:BI:111:LEU:HD11	2.22	0.75
18:B3:2819:C:C3'	22:BC:100:SER:CA	2.64	0.75
22:BC:115:ARG:HG3	22:BC:173:LYS:HZ3	1.51	0.75
22:BC:229:THR:CA	22:BC:234:THR:HG22	2.14	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:259:VAL:HG22	22:BC:261:TRP:CA	2.16	0.75
28:BI:146:ASP:HB2	28:BI:149:VAL:CG2	2.16	0.75
18:B3:1743:G:O2'	37:BR:17:LEU:HD11	1.85	0.75
26:BG:108:LEU:H	26:BG:108:LEU:HD22	1.49	0.75
26:BG:212:LYS:HE2	26:BG:213:LEU:HD23	1.69	0.75
18:B3:1808:C:O2	18:B3:2732:U:OP1	2.03	0.75
18:B3:2335:C:C5'	29:BJ:111:LEU:HB3	1.96	0.75
39:BT:132:LEU:O	39:BT:134:ILE:HG22	1.85	0.75
1:AA:403:C:H5'	1:AA:620:C:C2	2.21	0.75
27:BH:47:LYS:H	27:BH:55:VAL:HG21	1.51	0.75
46:BZ:78:THR:O	46:BZ:79:ARG:HG2	1.85	0.75
40:BU:113:LYS:H	40:BU:116:LYS:HE2	1.50	0.75
18:B3:80:A:C5'	40:BU:74:TYR:OH	2.34	0.75
1:AA:120:A:C2	1:AA:122:G:N1	2.53	0.75
1:AA:579:G:H5'	1:AA:728:A:H1'	1.68	0.75
46:BZ:2:ASN:HB3	46:BZ:91:GLU:CG	2.15	0.75
15:AO:86:ASP:HA	15:AO:89:TYR:CD2	2.20	0.75
15:AO:91:ILE:HD11	15:AO:92:LYS:NZ	2.01	0.75
7:AG:85:GLN:HB2	7:AG:88:ILE:O	1.86	0.75
18:B3:495:A:O5'	18:B3:1390:A:N3	2.10	0.75
6:AE:145:THR:HG22	6:AE:146:ASN:H	1.50	0.75
20:BA:100:ILE:HD13	20:BA:100:ILE:O	1.86	0.75
1:AA:1297:C:H6	13:AM:53:ASP:CB	2.00	0.75
1:AA:979:C:H4'	17:AS:80:MET:HA	1.68	0.75
17:AS:56:PHE:HB2	17:AS:80:MET:CG	2.16	0.75
9:AI:98:GLU:HB2	9:AI:102:ASN:O	1.86	0.75
10:AJ:52:LYS:CE	10:AJ:93:LEU:HD13	2.16	0.75
24:BE:96:ALA:HB2	24:BE:200:PHE:O	1.85	0.75
24:BE:64:ILE:HG23	24:BE:75:LEU:HD23	1.68	0.75
42:B0:105:ARG:O	42:B0:109:LEU:HD23	1.86	0.75
18:B3:1311:G:O6	23:BD:185:LYS:HB3	1.84	0.75
18:B3:745:G:O6	34:BO:65:SER:CB	2.32	0.75
23:BD:133:LEU:HD12	23:BD:136:ALA:CB	2.16	0.75
25:BF:102:LEU:C	25:BF:105:LEU:HD23	2.06	0.75
25:BF:107:LEU:HD12	25:BF:114:THR:CG2	2.16	0.75
25:BF:95:PRO:HG2	25:BF:98:PRO:CG	2.15	0.75
18:B3:2123:A:H4'	31:BL:88:VAL:HG21	1.68	0.75
18:B3:1806:G:N3	18:B3:2884:G:C8	2.55	0.75
20:BA:41:TYR:OH	20:BA:163:LEU:HA	1.86	0.75
20:BA:51:GLY:C	20:BA:54:LYS:HB3	2.06	0.75
20:BA:63:MET:HE1	20:BA:159:LEU:O	1.87	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:60:ALA:HA	3:AB:63:ILE:HD12	1.66	0.75
3:AB:63:ILE:O	3:AB:67:PRO:HD2	1.87	0.75
5:AD:116:LEU:HB2	5:AD:118:LEU:HD23	1.68	0.75
5:AD:175:ARG:HG2	5:AD:191:ALA:HA	1.66	0.75
2:AT:463:LEU:N	2:AT:513:LYS:NZ	2.34	0.75
2:AT:464:LEU:CD2	2:AT:510:ARG:CG	2.44	0.75
18:B3:2560:C:O3'	18:B3:2777:G:O2'	2.05	0.75
32:BM:53:TYR:H	32:BM:58:ARG:CG	1.98	0.75
1:AA:921:U:OP1	1:AA:1081:G:O3'	2.04	0.75
1:AA:779:C:H4'	11:AK:132:ARG:C	2.05	0.75
35:BP:51:LYS:HA	35:BP:51:LYS:CE	2.15	0.75
18:B3:2437:A:H4'	46:BZ:14:LYS:HB2	1.68	0.75
41:BV:71:VAL:HA	41:BV:110:LYS:HD2	1.68	0.75
41:BV:81:ILE:HG21	41:BV:95:LYS:CD	2.17	0.75
1:AA:125:U:OP1	1:AA:291:C:H1'	1.85	0.75
18:B3:2434:A:OP1	46:BZ:35:PHE:CZ	2.37	0.75
4:AC:137:VAL:HG22	4:AC:183:ILE:HD11	1.69	0.75
18:B3:270:U:OP1	18:B3:273:G:C1'	2.33	0.75
1:AA:187:C:OP1	1:AA:258:G:OP2	2.03	0.75
1:AA:1319:A:O4'	17:AS:49:MET:SD	2.44	0.75
13:AM:94:ASP:OD2	13:AM:134:ARG:NH2	2.19	0.75
1:AA:1223:C:H5''	17:AS:100:LYS:CE	2.17	0.75
18:B3:1415:G:H5'	45:BY:13:LYS:NZ	2.02	0.75
42:B0:25:TYR:O	42:B0:28:VAL:HG22	1.86	0.75
18:B3:540:A:H62	42:B0:50:ILE:CD1	1.90	0.75
1:AA:1176:A:C1'	9:AI:108:PHE:CD1	2.69	0.75
19:B4:51:A:N9	24:BE:58:LYS:HB3	1.70	0.75
18:B3:500:G:C2	33:BN:96:ASN:ND2	2.54	0.75
23:BD:186:LEU:CA	23:BD:199:THR:HA	2.16	0.75
21:BB:97:VAL:HG23	21:BB:165:ILE:CG2	2.17	0.75
21:BB:62:PHE:HB2	21:BB:64:ASP:O	1.86	0.75
22:BC:118:TYR:CD2	22:BC:132:TYR:HA	2.22	0.75
22:BC:220:THR:HG22	22:BC:271:TYR:C	2.06	0.75
18:B3:2123:A:O5'	31:BL:88:VAL:HG23	1.85	0.75
26:BG:117:GLU:CG	26:BG:213:LEU:HD13	2.16	0.75
18:B3:1815:A:O2'	18:B3:2746:A:N9	2.17	0.75
35:BP:63:ARG:HD3	35:BP:63:ARG:N	1.99	0.75
18:B3:920:C:C5'	41:BV:39:HIS:O	2.22	0.75
20:BA:16:LEU:HD11	20:BA:208:SER:H	1.50	0.75
18:B3:1676:G:H5''	39:BT:115:PRO:CA	1.97	0.75
21:BB:218:ILE:O	21:BB:218:ILE:HD12	1.85	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:145:LEU:CD2	3:AB:172:ILE:HD13	2.17	0.75
12:AL:124:VAL:HB	12:AL:133:LEU:HD11	1.69	0.75
18:B3:2560:C:C5'	27:BH:168:ARG:CD	2.28	0.75
18:B3:1227:C:OP1	18:B3:1244:U:O4	2.05	0.75
27:BH:34:LEU:CD1	27:BH:150:SER:HB3	2.16	0.75
18:B3:1103:C:O2	32:BM:86:MET:HG2	1.84	0.75
1:AA:675:A:C8	11:AK:120:VAL:CG1	2.62	0.75
41:BV:81:ILE:HG13	41:BV:95:LYS:CD	2.17	0.75
32:BM:26:LEU:HD11	32:BM:97:ALA:O	1.87	0.75
7:AG:138:ASN:HD21	7:AG:202:LYS:HB2	1.52	0.75
7:AG:164:LEU:O	7:AG:167:VAL:HG22	1.87	0.75
42:B0:16:LYS:H	42:B0:16:LYS:HD2	1.52	0.75
9:AI:30:VAL:HG23	9:AI:66:VAL:CG1	2.16	0.75
24:BE:135:VAL:HG12	24:BE:136:GLU:O	1.87	0.75
42:B0:87:MET:HG3	42:B0:118:LYS:N	2.02	0.75
18:B3:1312:G:N1	23:BD:186:LEU:CD1	2.03	0.75
18:B3:664:U:C5'	23:BD:114:HIS:HB2	2.14	0.75
18:B3:1310:U:OP2	23:BD:180:VAL:C	2.25	0.75
21:BB:177:PRO:HB2	21:BB:179:LEU:CD1	2.16	0.75
25:BF:143:ILE:O	25:BF:147:VAL:HG13	1.86	0.75
25:BF:168:ILE:HG12	25:BF:177:ILE:N	2.02	0.75
1:AA:132:C:P	1:AA:264:U:H5'	2.25	0.75
18:B3:953:G:H2'	36:BQ:13:TYR:CD1	2.20	0.75
18:B3:967:U:O4'	28:BI:34:TYR:CE2	2.14	0.75
18:B3:1055:G:N2	28:BI:108:ALA:HB2	2.02	0.75
37:BR:54:LEU:HB2	37:BR:85:TRP:CH2	2.21	0.75
18:B3:2215:A:C5'	20:BA:107:TYR:CE1	2.64	0.75
18:B3:2216:A:OP2	20:BA:64:SER:OG	2.01	0.75
1:AA:615:C:H6	5:AD:149:ARG:HD3	1.52	0.75
3:AB:119:LEU:CD1	3:AB:141:PRO:HB2	2.17	0.75
1:AA:619:U:O3'	5:AD:129:ILE:HD13	1.82	0.75
1:AA:25:C:O3'	12:AL:109:ARG:CD	2.31	0.75
27:BH:101:VAL:HA	27:BH:113:GLU:HB2	1.66	0.75
32:BM:11:LYS:CB	32:BM:36:ARG:HD2	2.16	0.75
1:AA:1502:A:H2	1:AA:1505:G:N1	1.84	0.75
18:B3:242:A:O3'	31:BL:2:ALA:HB2	1.86	0.75
1:AA:754:C:H4'	15:AO:127:TYR:CD1	2.21	0.75
7:AG:206:THR:O	7:AG:210:ILE:HD13	1.86	0.75
12:AL:100:ASP:HB3	12:AL:132:LEU:HB2	1.66	0.75
2:AT:693:LEU:HB3	2:AT:700:ARG:HD2	1.68	0.75
2:AT:378:LEU:H	2:AT:471:THR:HG22	1.49	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:187:LYS:HD2	7:AG:187:LYS:O	1.85	0.75
1:AA:1222:G:O2'	17:AS:100:LYS:HD2	1.86	0.75
18:B3:618:G:H1'	42:B0:49:ASN:CB	2.15	0.75
1:AA:1141:C:H2'	1:AA:1142:G:H8	1.51	0.75
9:AI:21:VAL:CG1	9:AI:62:ILE:HG23	2.17	0.75
10:AJ:58:LEU:HG	10:AJ:90:TYR:CD2	2.21	0.75
42:B0:73:THR:HG22	42:B0:93:ALA:CB	2.17	0.75
18:B3:1334:C:H3'	42:B0:98:HIS:O	1.86	0.75
18:B3:1163:G:C8	30:BK:51:LYS:HG3	2.09	0.75
21:BB:222:SER:O	21:BB:236:LEU:HD13	1.86	0.75
18:B3:1861:C:C3'	21:BB:7:GLN:HA	2.16	0.75
18:B3:2827:A:OP2	22:BC:122:TYR:C	2.25	0.75
18:B3:2093:G:OP1	22:BC:250:CYS:CA	2.32	0.75
22:BC:310:PHE:CZ	22:BC:363:LYS:HB3	2.20	0.75
22:BC:52:MET:HA	22:BC:52:MET:CE	2.17	0.75
28:BI:140:THR:CG2	28:BI:141:LYS:HD2	2.17	0.75
26:BG:117:GLU:CG	26:BG:213:LEU:HD22	2.17	0.75
26:BG:198:ALA:O	26:BG:199:LEU:HD13	1.87	0.75
31:BL:187:ARG:HB3	31:BL:187:ARG:NH1	2.00	0.75
18:B3:2878:U:H2'	18:B3:2879:A:O4'	1.86	0.75
18:B3:2345:A:H4'	29:BJ:48:LYS:NZ	2.01	0.75
14:AN:37:ILE:CG2	14:AN:40:GLN:HB2	2.17	0.75
5:AD:174:ARG:HB3	5:AD:175:ARG:NH1	2.02	0.75
2:AT:137:VAL:C	2:AT:481:MET:HG3	2.06	0.75
37:BR:64:LYS:HD3	37:BR:65:GLY:H	1.51	0.75
1:AA:1071:C:OP1	6:AE:90:ARG:O	2.03	0.75
1:AA:1086:U:H4'	1:AA:1389:C:C4'	2.17	0.75
35:BP:21:VAL:HA	35:BP:51:LYS:HB2	1.69	0.75
43:BW:17:LYS:HB2	43:BW:27:ARG:HD2	1.69	0.75
43:BW:35:ILE:HD12	43:BW:36:LYS:N	2.01	0.75
18:B3:2552:C:C3'	18:B3:2553:A:H5'	2.16	0.75
18:B3:82:C:C2'	40:BU:75:ARG:NH1	2.49	0.75
1:AA:119:A:H2	1:AA:238:G:H2'	0.98	0.75
1:AA:666:G:H21	15:AO:109:ASP:CG	1.88	0.75
1:AA:754:C:C1'	15:AO:127:TYR:CG	2.69	0.75
11:AK:56:PRO:HD3	11:AK:88:THR:CB	2.16	0.75
20:BA:32:VAL:HG11	20:BA:179:LEU:HD21	1.67	0.75
7:AG:202:LYS:HA	7:AG:205:SER:CB	2.16	0.75
7:AG:85:GLN:CG	7:AG:93:THR:HB	2.16	0.75
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.52	0.75
1:AA:1309:G:N7	13:AM:92:ILE:CG2	0.84	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.22	0.75
9:AI:98:GLU:HA	9:AI:106:LYS:H	1.51	0.75
24:BE:115:LEU:HD22	24:BE:171:LEU:HD13	1.67	0.75
18:B3:1428:C:H5''	33:BN:124:GLN:CD	2.06	0.75
33:BN:41:THR:HA	33:BN:44:GLN:HG2	1.68	0.75
18:B3:2050:G:N7	33:BN:82:TRP:CZ3	2.53	0.75
33:BN:82:TRP:HB2	33:BN:83:PRO:HA	1.67	0.75
33:BN:85:LYS:HA	33:BN:88:LYS:HZ1	1.50	0.75
18:B3:35:U:C5'	23:BD:104:THR:CB	2.65	0.75
18:B3:35:U:H5''	23:BD:104:THR:HB	1.69	0.75
23:BD:256:LYS:CB	23:BD:259:GLN:HB3	2.16	0.75
23:BD:30:ARG:CG	23:BD:33:ILE:HD13	2.16	0.75
34:BO:62:VAL:CG2	34:BO:87:VAL:HA	2.15	0.75
23:BD:75:ARG:CD	23:BD:80:GLY:HA2	2.16	0.75
18:B3:1181:A:C4'	30:BK:109:ILE:CG1	2.62	0.75
18:B3:1181:A:C5'	30:BK:143:VAL:HG21	1.67	0.75
47:B9:68:TYR:HD2	47:B9:69:THR:HG23	1.51	0.75
21:BB:187:LYS:NZ	21:BB:190:LEU:HD13	2.02	0.75
18:B3:1285:U:C4'	25:BF:155:ILE:CG1	2.50	0.75
25:BF:168:ILE:HG23	25:BF:175:TYR:HB2	1.67	0.75
1:AA:255:G:C4'	16:AQ:80:HIS:O	2.34	0.75
22:BC:92:VAL:HB	22:BC:101:LEU:HD21	1.68	0.75
18:B3:2840:A:OP1	22:BC:224:GLY:CA	2.34	0.75
28:BI:76:MET:O	28:BI:79:VAL:HG12	1.87	0.75
26:BG:116:ALA:HA	26:BG:177:ALA:CB	2.17	0.75
18:B3:391:U:O2'	31:BL:195:THR:HG22	1.85	0.75
29:BJ:16:LEU:CD1	29:BJ:70:VAL:HG11	2.14	0.75
20:BA:43:PRO:HD2	20:BA:132:GLY:CA	2.13	0.75
8:AH:33:ILE:O	8:AH:33:ILE:HD13	1.87	0.75
8:AH:54:ASP:HB2	8:AH:59:LYS:HD2	1.68	0.75
1:AA:362:G:O2'	12:AL:78:LYS:CA	2.34	0.75
1:AA:66:G:C5	1:AA:69:G:O6	2.39	0.75
18:B3:2560:C:H3'	27:BH:168:ARG:HG3	1.68	0.75
18:B3:2566:A:H5'	27:BH:174:LYS:HZ1	1.52	0.75
43:BW:11:TYR:CE1	43:BW:72:LEU:HD13	2.22	0.75
1:AA:404:U:C2	5:AD:19:TYR:HE2	2.01	0.75
18:B3:2404:G:C8	36:BQ:69:LYS:NZ	2.54	0.75
15:AO:90:LEU:HB3	15:AO:121:ILE:HD11	1.69	0.75
16:AQ:74:VAL:HG21	16:AQ:116:VAL:CG2	2.15	0.75
18:B3:877:G:H5'	18:B3:878:G:OP1	1.86	0.75
1:AA:1225:A:C2	17:AS:126:VAL:O	2.39	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1695:G:H1'	45:BY:5:PRO:HB2	1.68	0.75
9:AI:96:VAL:HG13	9:AI:104:LEU:HB3	1.69	0.75
19:B4:68:G:H1'	24:BE:12:TYR:C	2.04	0.75
24:BE:24:ARG:HG2	24:BE:25:GLU:H	1.52	0.75
19:B4:117:G:N3	24:BE:69:ILE:O	2.19	0.75
18:B3:2052:U:OP2	33:BN:23:VAL:CG2	2.35	0.75
42:B0:72:LYS:HD3	42:B0:90:LYS:HE2	1.69	0.75
23:BD:144:ILE:HD13	23:BD:144:ILE:O	1.87	0.75
34:BO:102:ALA:HB2	34:BO:122:ILE:HD11	1.67	0.75
18:B3:1167:G:C4'	30:BK:111:GLU:CA	2.56	0.75
18:B3:1163:G:H5'	30:BK:54:LYS:CB	2.17	0.75
21:BB:179:LEU:CD1	47:B9:22:ARG:HH11	1.99	0.75
47:B9:59:CYS:HB3	47:B9:61:LYS:NZ	2.01	0.75
47:B9:75:ALA:O	47:B9:79:ARG:HD3	1.87	0.75
18:B3:1652:C:C5	21:BB:174:VAL:CG2	2.69	0.75
18:B3:944:G:H1'	25:BF:100:LYS:NZ	2.01	0.75
25:BF:102:LEU:CD1	25:BF:129:ILE:HG21	2.17	0.75
1:AA:131:C:O3'	1:AA:264:U:C4'	2.35	0.75
1:AA:537:G:H5''	12:AL:143:PRO:HG3	0.75	0.75
44:BX:25:LYS:NZ	44:BX:25:LYS:HA	2.02	0.75
18:B3:2912:C:N4	22:BC:125:LYS:HA	1.99	0.75
22:BC:52:MET:HG2	22:BC:75:VAL:O	1.86	0.75
28:BI:151:GLY:HA2	28:BI:154:ARG:NE	2.01	0.75
18:B3:2709:G:O3'	37:BR:9:THR:HB	1.85	0.75
18:B3:2337:G:N3	29:BJ:127:TYR:CB	2.29	0.75
14:AN:25:SER:O	14:AN:29:LEU:HD11	1.87	0.75
12:AL:128:SER:HB2	12:AL:130:VAL:HG23	1.68	0.75
2:AT:464:LEU:HB2	2:AT:513:LYS:CG	2.16	0.75
37:BR:60:ALA:O	37:BR:74:MET:HB3	1.87	0.75
27:BH:78:MET:CE	27:BH:79:ILE:HG13	2.16	0.75
1:AA:779:C:P	11:AK:132:ARG:HB3	2.25	0.75
18:B3:2408:A:N9	46:BZ:19:HIS:NE2	2.34	0.75
1:AA:19:C:H1'	1:AA:572:A:C5	2.22	0.75
1:AA:913:A:P	12:AL:62:LYS:HZ2	2.08	0.75
1:AA:949:A:H3'	13:AM:141:THR:HG1	1.49	0.75
1:AA:947:G:H5''	13:AM:143:ARG:HH22	0.93	0.75
1:AA:239:U:H1'	1:AA:288:A:N3	2.00	0.75
30:BK:29:ALA:HB3	30:BK:30:PRO:HD3	1.69	0.75
9:AI:58:LYS:HZ1	9:AI:62:ILE:HG21	1.52	0.75
18:B3:553:G:H4'	42:B0:69:SER:HB3	1.69	0.75
18:B3:1305:C:OP2	23:BD:191:GLY:N	2.20	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:103:LYS:O	23:BD:103:LYS:HD2	1.87	0.75
18:B3:1358:A:C2	23:BD:86:GLN:HB3	2.22	0.75
47:B9:47:LYS:NZ	47:B9:48:ARG:HD2	2.02	0.75
18:B3:2093:G:N2	22:BC:257:ALA:C	2.40	0.75
22:BC:81:PRO:HG3	22:BC:204:VAL:N	2.02	0.75
28:BI:102:MET:C	28:BI:103:LEU:HD22	2.06	0.75
28:BI:88:ARG:HA	28:BI:88:ARG:CZ	2.16	0.75
31:BL:60:ILE:CG2	31:BL:132:ILE:HG12	2.15	0.75
10:AJ:78:THR:HG23	14:AN:39:ARG:HB3	1.62	0.75
3:AB:52:THR:O	3:AB:56:LEU:HD23	1.87	0.75
8:AH:100:TYR:HB2	8:AH:111:ASP:OD1	1.86	0.75
1:AA:70:G:H21	1:AA:101:A:N6	1.66	0.75
1:AA:678:U:H5'	11:AK:127:LYS:HA	0.75	0.75
18:B3:2459:G:OP1	46:BZ:66:LYS:NZ	2.03	0.75
18:B3:2430:A:H61	46:BZ:59:LYS:HE2	1.50	0.75
18:B3:2457:U:O2'	46:BZ:82:LEU:O	2.04	0.75
1:AA:1406:U:C6	1:AA:1518:A:C4'	2.53	0.75
1:AA:567:G:OP1	6:AE:201:GLY:HA2	1.87	0.75
41:BV:75:ASP:OD1	41:BV:115:GLY:HA3	1.86	0.75
1:AA:111:G:H21	1:AA:389:A:H5'	1.48	0.75
46:BZ:44:ARG:HB3	46:BZ:44:ARG:CZ	2.14	0.75
17:AS:54:ALA:O	17:AS:84:ILE:HG22	1.87	0.74
36:BQ:75:ILE:H	36:BQ:91:LEU:CD2	2.01	0.74
18:B3:2053:G:H5'	33:BN:140:SER:CA	2.15	0.74
18:B3:2048:C:H5''	33:BN:68:ARG:CD	2.12	0.74
23:BD:160:LYS:HD2	23:BD:163:GLU:HG2	1.68	0.74
34:BO:60:PRO:HB3	34:BO:85:GLY:HA3	1.68	0.74
18:B3:2531:U:O3'	18:B3:2532:A:C4'	2.35	0.74
18:B3:2806:C:C4'	22:BC:343:THR:HG23	2.16	0.74
28:BI:106:ALA:HA	28:BI:112:GLN:O	1.85	0.74
37:BR:46:LEU:HD22	37:BR:46:LEU:O	1.87	0.74
26:BG:138:VAL:O	26:BG:141:LEU:HG	1.87	0.74
26:BG:151:LEU:O	26:BG:198:ALA:HB2	1.86	0.74
18:B3:1706:G:C8	18:B3:2736:U:OP1	2.40	0.74
18:B3:1565:C:C5'	18:B3:2738:G:C8	2.71	0.74
35:BP:94:TRP:HE1	35:BP:98:LEU:HD13	1.49	0.74
20:BA:48:ARG:HD2	20:BA:160:LYS:O	1.87	0.74
10:AJ:72:ASN:HD22	14:AN:28:GLY:CA	2.00	0.74
10:AJ:72:ASN:HD22	14:AN:28:GLY:HA2	1.52	0.74
5:AD:99:LEU:HG	5:AD:107:ARG:H	1.51	0.74
27:BH:57:VAL:CB	32:BM:126:LEU:CD1	2.65	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:42:ILE:CD1	32:BM:136:THR:HG21	2.17	0.74
1:AA:1075:C:C3'	3:AB:103:PRO:HD2	2.17	0.74
40:BU:60:ARG:NH1	40:BU:60:ARG:HA	2.01	0.74
41:BV:120:VAL:CG2	41:BV:122:VAL:HG13	2.17	0.74
18:B3:49:A:H2	18:B3:113:A:O4'	1.66	0.74
18:B3:1886:A:H5'	47:B9:19:SER:CB	2.16	0.74
18:B3:1771:U:O2'	47:B9:15:VAL:HB	1.87	0.74
4:AC:34:SER:HA	4:AC:98:VAL:HG21	1.67	0.74
33:BN:127:ARG:CB	33:BN:138:TYR:HB3	2.16	0.74
20:BA:194:LEU:HD23	20:BA:200:ASN:ND2	2.02	0.74
1:AA:1065:U:O4	1:AA:1189:C:C4	2.40	0.74
1:AA:1221:G:OP2	17:AS:79:HIS:C	2.26	0.74
1:AA:1329:A:C2'	13:AM:90:ASN:HD21	2.00	0.74
13:AM:91:ASP:HA	13:AM:109:LEU:CA	2.16	0.74
1:AA:1152:A:O3'	10:AJ:31:VAL:CG2	2.31	0.74
18:B3:2424:U:H4'	36:BQ:7:TYR:N	2.00	0.74
19:B4:32:G:N2	24:BE:95:TRP:HH2	1.82	0.74
24:BE:64:ILE:HG21	24:BE:109:THR:HG21	1.68	0.74
24:BE:143:LYS:C	24:BE:171:LEU:HD11	2.07	0.74
24:BE:187:THR:H	24:BE:200:PHE:CB	1.98	0.74
24:BE:187:THR:N	24:BE:200:PHE:HB2	1.99	0.74
33:BN:25:PHE:CE1	33:BN:28:THR:HG21	2.22	0.74
42:B0:79:VAL:HG22	42:B0:109:LEU:HA	1.69	0.74
18:B3:449:A:P	18:B3:1306:U:H1'	2.27	0.74
23:BD:207:VAL:CG1	23:BD:247:VAL:HG12	2.15	0.74
23:BD:151:VAL:O	23:BD:251:GLU:HG2	1.86	0.74
23:BD:30:ARG:NH2	34:BO:23:ASN:HB3	2.02	0.74
18:B3:1360:C:O2'	23:BD:93:CYS:O	2.05	0.74
30:BK:84:ALA:HB1	30:BK:104:ILE:CD1	2.18	0.74
18:B3:1869:A:C2'	21:BB:192:ARG:HH22	1.88	0.74
18:B3:1870:C:O5'	21:BB:192:ARG:NH1	2.09	0.74
18:B3:944:G:O2'	25:BF:125:LEU:HD22	1.88	0.74
1:AA:132:C:C2	1:AA:262:A:H2	2.03	0.74
1:AA:190(E):U:C2	16:AQ:131:SER:N	2.54	0.74
22:BC:280:LYS:N	22:BC:324:LYS:HE2	2.02	0.74
26:BG:151:LEU:CD2	26:BG:185:LEU:HD22	2.17	0.74
31:BL:17:VAL:HA	31:BL:20:PHE:CE2	2.21	0.74
18:B3:1593:C:OP2	35:BP:116:LYS:O	2.05	0.74
18:B3:2347:C:C2	29:BJ:19:ASN:HB2	2.20	0.74
1:AA:64:G:H21	1:AA:73:C:N4	1.84	0.74
18:B3:2705:U:C4'	27:BH:122:LYS:HZ1	1.79	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:37:ARG:NH2	35:BP:40:ILE:HD13	2.02	0.74
43:BW:17:LYS:HD3	43:BW:66:VAL:CG1	2.17	0.74
1:AA:1503:A:O2'	1:AA:1507:A:C5'	2.35	0.74
1:AA:1503:A:C5'	1:AA:1530:G:C2	2.68	0.74
8:AH:81:LYS:CE	8:AH:86:GLU:HG3	2.16	0.74
2:AT:126:LEU:HD11	2:AT:156:VAL:CG2	2.16	0.74
18:B3:2506:A:HO2'	18:B3:2507:G:H8	0.79	0.74
21:BB:220:LYS:O	21:BB:220:LYS:HD3	1.86	0.74
1:AA:1306:A:O2'	13:AM:144:ARG:HG2	1.87	0.74
1:AA:1330:U:OP2	13:AM:97:ASP:CB	2.35	0.74
1:AA:987:G:C4	17:AS:77:ARG:CD	2.69	0.74
1:AA:1318:A:C2	17:AS:82:ASN:CG	2.61	0.74
1:AA:1179:A:C5'	9:AI:116:LEU:O	2.11	0.74
19:B4:29:C:N4	24:BE:57:ASN:CB	2.40	0.74
24:BE:208:MET:HG3	24:BE:211:LEU:HD22	1.68	0.74
18:B3:517:U:H2'	18:B3:1319:G:N2	2.01	0.74
23:BD:162:LYS:O	23:BD:165:VAL:HB	1.87	0.74
21:BB:173:ARG:HD3	21:BB:174:VAL:HG22	1.67	0.74
18:B3:1067:A:H5'	25:BF:96:PRO:CD	2.17	0.74
18:B3:952:G:C5'	36:BQ:14:MET:HG2	2.18	0.74
18:B3:1206:C:C3'	18:B3:1207:A:C8	2.65	0.74
18:B3:2526:C:C5'	18:B3:2605:G:C5'	2.64	0.74
18:B3:2526:C:H5''	18:B3:2605:G:H4'	1.68	0.74
18:B3:2094:G:H5'	22:BC:253:ALA:HB1	1.70	0.74
18:B3:2826:G:C1'	22:BC:124:SER:N	2.49	0.74
37:BR:85:TRP:CE3	37:BR:86:ARG:HD2	2.19	0.74
31:BL:66:ARG:HA	31:BL:126:TYR:CE1	2.22	0.74
18:B3:1809:G:N2	18:B3:2732:U:H5'	2.03	0.74
18:B3:2737:C:C3'	35:BP:60:SER:N	2.46	0.74
29:BJ:155:LYS:O	29:BJ:159:VAL:HG12	1.87	0.74
29:BJ:18:LEU:N	29:BJ:68:VAL:HB	2.02	0.74
18:B3:1383:U:C2'	43:BW:29:PRO:CA	2.60	0.74
1:AA:1406:U:O2	1:AA:1517:G:C2'	2.35	0.74
18:B3:903:U:C2	41:BV:15:SER:HA	2.22	0.74
41:BV:117:ILE:CG2	41:BV:118:PRO:HA	2.16	0.74
40:BU:17:LYS:HG3	40:BU:18:ALA:N	2.01	0.74
7:AG:85:GLN:HG3	7:AG:93:THR:CG2	2.16	0.74
18:B3:539:G:N2	42:B0:49:ASN:OD1	1.97	0.74
18:B3:538:C:N3	42:B0:21:HIS:CE1	2.55	0.74
18:B3:2413:A:H1'	24:BE:174:PRO:CB	2.16	0.74
24:BE:22:ARG:HH21	24:BE:27:LYS:CG	2.00	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:34:LYS:O	24:BE:37:VAL:HG12	1.86	0.74
36:BQ:71:SER:HA	36:BQ:92:ARG:NE	2.01	0.74
36:BQ:84:TYR:HB3	36:BQ:86:GLU:HG3	1.69	0.74
18:B3:1310:U:H5	23:BD:202:ARG:CA	2.00	0.74
31:BL:82:LYS:HB3	31:BL:83:PRO:C	2.08	0.74
25:BF:177:ILE:CG2	25:BF:183:LEU:HD23	2.16	0.74
18:B3:2526:C:H4'	18:B3:2605:G:C4'	2.15	0.74
22:BC:48:TYR:CZ	22:BC:49:LYS:HB3	2.22	0.74
18:B3:792:G:H5''	35:BP:86:ALA:HB2	1.69	0.74
18:B3:921:G:H4'	41:BV:41:ARG:HG3	1.62	0.74
18:B3:2347:C:O4'	29:BJ:66:VAL:CG1	2.15	0.74
18:B3:2345:A:C4'	29:BJ:48:LYS:CE	2.50	0.74
5:AD:102:GLU:HB2	5:AD:191:ALA:O	1.86	0.74
18:B3:2566:A:C5'	27:BH:174:LYS:NZ	2.49	0.74
27:BH:54:LYS:CE	27:BH:54:LYS:HA	2.16	0.74
1:AA:920:U:C3'	1:AA:1080:A:H2'	2.10	0.74
18:B3:1383:U:O2'	43:BW:29:PRO:CA	2.29	0.74
35:BP:41:ARG:HD3	35:BP:44:VAL:HB	1.68	0.74
40:BU:56:VAL:HG11	40:BU:104:LEU:HB2	1.68	0.74
1:AA:519:C:OP2	12:AL:67:ALA:CB	2.35	0.74
4:AC:104:MET:CG	4:AC:121:VAL:HG11	2.16	0.74
4:AC:54:THR:HG21	4:AC:89:ARG:HG2	1.68	0.74
1:AA:888:G:H4'	1:AA:1489:G:H5'	1.68	0.74
1:AA:1298:C:H42	7:AG:184:ARG:HD3	1.50	0.74
18:B3:2060:A:O3'	42:B0:24:ARG:CD	2.35	0.74
18:B3:2415:A:O4'	24:BE:39:GLN:CG	2.18	0.74
24:BE:105:ILE:O	24:BE:108:ARG:HB2	1.88	0.74
24:BE:209:GLU:HG3	24:BE:210:GLU:CD	2.07	0.74
19:B4:59:C:OP1	24:BE:25:GLU:CG	2.35	0.74
24:BE:42:ALA:HB1	24:BE:66:SER:HB3	1.69	0.74
33:BN:86:SER:O	33:BN:90:VAL:HG23	1.87	0.74
42:B0:112:ALA:CB	42:B0:117:ILE:HD11	2.18	0.74
18:B3:1311:G:C8	23:BD:185:LYS:HG3	2.22	0.74
23:BD:181:LEU:CD2	23:BD:185:LYS:HG2	2.15	0.74
34:BO:31:LYS:O	34:BO:34:THR:HG22	1.85	0.74
18:B3:170:U:O4'	46:BZ:49:PHE:CE2	2.41	0.74
18:B3:948:G:H21	36:BQ:100:LYS:CD	1.97	0.74
16:AQ:131:SER:HB3	16:AQ:134:VAL:CG1	2.16	0.74
1:AA:190(E):U:OP2	16:AQ:137:ASN:CA	2.35	0.74
44:BX:51:ILE:O	44:BX:51:ILE:HD13	1.85	0.74
18:B3:2093:G:HO2'	22:BC:253:ALA:CB	0.85	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2722:G:C5'	37:BR:94:TYR:CE2	2.70	0.74
18:B3:2808:U:H5''	22:BC:274:ARG:CB	2.14	0.74
18:B3:2821:C:C5'	22:BC:103:THR:CA	2.34	0.74
18:B3:2653:A:C4'	22:BC:256:PRO:C	2.55	0.74
22:BC:71:VAL:H	37:BR:88:ARG:N	1.85	0.74
18:B3:1789:G:HO2'	18:B3:2877:G:C1'	1.87	0.74
29:BJ:163:LYS:CD	29:BJ:169:ASP:HA	2.17	0.74
10:AJ:71:PRO:HD3	14:AN:42:PHE:CB	2.11	0.74
1:AA:779:C:O4'	11:AK:132:ARG:HG3	1.86	0.74
35:BP:21:VAL:HG23	35:BP:22:TRP:CE2	2.22	0.74
41:BV:69:LYS:O	41:BV:108:TYR:HB3	1.88	0.74
11:AK:38:ILE:HD13	11:AK:69:LYS:CB	2.17	0.74
32:BM:32:ILE:CG1	32:BM:33:VAL:H	1.99	0.74
42:B0:64:LYS:HD3	42:B0:64:LYS:H	1.52	0.74
2:AT:433:ARG:HB3	2:AT:457:VAL:CG1	2.17	0.74
17:AS:71:GLU:HG3	17:AS:72:LYS:H	1.51	0.74
18:B3:844:A:N7	33:BN:130:ARG:NH2	2.35	0.74
45:BY:13:LYS:N	45:BY:13:LYS:HE3	2.02	0.74
42:B0:27:ARG:NH2	42:B0:28:VAL:HA	2.03	0.74
1:AA:1151:A:N6	10:AJ:57:ARG:NH2	2.36	0.74
10:AJ:56:VAL:HG13	10:AJ:58:LEU:CD2	2.18	0.74
19:B4:36:C:H4'	24:BE:182:GLY:H	1.53	0.74
24:BE:211:LEU:HD23	24:BE:212:ALA:H	1.49	0.74
24:BE:35:ARG:CZ	24:BE:35:ARG:HA	2.16	0.74
24:BE:83:LEU:HG	24:BE:104:LEU:HD12	1.67	0.74
18:B3:2424:U:H5'	36:BQ:7:TYR:CD2	2.19	0.74
42:B0:105:ARG:NH2	42:B0:108:ILE:HG23	2.01	0.74
18:B3:1304:U:H2'	23:BD:194:ARG:HB2	1.70	0.74
23:BD:180:VAL:CG2	23:BD:222:PRO:HB2	2.18	0.74
18:B3:677:C:C2'	23:BD:256:LYS:CG	2.60	0.74
34:BO:113:LYS:HA	34:BO:113:LYS:HZ2	1.50	0.74
18:B3:1358:A:C2'	23:BD:92:MET:HG3	2.10	0.74
18:B3:1168:C:O4'	30:BK:110:ILE:HG21	1.88	0.74
47:B9:23:ARG:CB	47:B9:27:LYS:HG3	2.17	0.74
18:B3:2468:A:C8	46:BZ:55:PRO:CG	2.69	0.74
18:B3:2653:A:H4'	22:BC:256:PRO:C	2.07	0.74
22:BC:276:SER:HB2	22:BC:279:HIS:NE2	2.03	0.74
22:BC:332:LYS:C	22:BC:333:ARG:HG3	2.06	0.74
37:BR:48:ARG:HE	37:BR:49:LEU:H	1.36	0.74
31:BL:41:PRO:HD2	31:BL:48:ARG:HH22	1.53	0.74
39:BT:107:LEU:CD2	39:BT:108:LYS:HG2	2.15	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:65:PRO:HA	39:BT:83:PHE:CG	2.21	0.74
39:BT:80:ILE:HG12	39:BT:81:LEU:H	1.52	0.74
2:AT:536:LEU:HD22	18:B3:2698:G:C3'	2.18	0.74
27:BH:79:ILE:O	27:BH:82:VAL:HG12	1.87	0.74
1:AA:920:U:O5'	1:AA:1080:A:N3	2.10	0.74
5:AD:55:ALA:HB1	5:AD:59:LEU:HD23	1.68	0.74
41:BV:70:PRO:HG2	41:BV:103:THR:O	1.86	0.74
41:BV:78:TRP:CD1	41:BV:117:ILE:HD11	2.22	0.74
1:AA:518:C:O2	12:AL:65:ASN:C	2.25	0.74
11:AK:56:PRO:HD3	11:AK:88:THR:CG2	2.18	0.74
32:BM:113:LYS:HB3	32:BM:115:LYS:HE3	1.69	0.74
21:BB:31:LEU:H	21:BB:31:LEU:HD12	1.52	0.74
29:BJ:98:THR:O	29:BJ:153:THR:HB	1.87	0.74
17:AS:109:PRO:O	17:AS:112:LEU:HD13	1.87	0.74
1:AA:1179:A:OP2	9:AI:116:LEU:CG	2.36	0.74
18:B3:525:G:OP1	33:BN:33:GLN:HG3	1.88	0.74
18:B3:672:G:O4'	23:BD:214:ILE:CB	2.36	0.74
23:BD:186:LEU:HA	23:BD:198:TRP:C	2.07	0.74
34:BO:113:LYS:HA	34:BO:113:LYS:CE	2.17	0.74
34:BO:72:LYS:HB2	34:BO:74:GLU:HG3	1.68	0.74
18:B3:765:G:C5'	23:BD:84:SER:HB3	2.15	0.74
18:B3:170:U:O4'	46:BZ:49:PHE:CZ	2.31	0.74
1:AA:255:G:O4'	16:AQ:80:HIS:HB2	1.87	0.74
18:B3:2526:C:O5'	18:B3:2605:G:H4'	1.88	0.74
18:B3:93:C:O4'	44:BX:42:PRO:HB3	1.85	0.74
28:BI:31:ILE:HD12	28:BI:69:ARG:NE	2.02	0.74
26:BG:198:ALA:HA	26:BG:199:LEU:HD22	1.70	0.74
26:BG:129:TYR:H	26:BG:204:ALA:CB	2.00	0.74
18:B3:1471:A:H5''	31:BL:104:ARG:HH11	1.52	0.74
18:B3:1788:U:C2'	18:B3:2881:C:C2	2.70	0.74
7:AG:112:ILE:HD12	7:AG:189:ILE:HB	1.70	0.74
29:BJ:67:HIS:HD2	29:BJ:68:VAL:HG23	1.53	0.74
18:B3:1673:U:P	39:BT:110:ASN:HA	2.28	0.74
14:AN:37:ILE:N	14:AN:41:CYS:HB2	2.02	0.74
1:AA:560:U:O4	1:AA:565:U:N3	1.95	0.74
5:AD:143:ILE:CG2	5:AD:146:PHE:HB2	2.16	0.74
5:AD:86:LEU:CG	5:AD:97:LEU:HA	2.11	0.74
8:AH:52:ILE:HD13	8:AH:61:VAL:CG2	2.17	0.74
12:AL:76:LEU:HD21	12:AL:83:VAL:CG2	2.18	0.74
41:BV:18:LYS:HD2	41:BV:19:GLY:N	2.03	0.74
37:BR:62:VAL:CG2	37:BR:70:ARG:HA	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:41:ARG:HA	35:BP:44:VAL:HG12	1.68	0.74
43:BW:35:ILE:CD1	43:BW:50:LEU:HD22	2.18	0.74
40:BU:35:LEU:HD13	40:BU:46:LYS:O	1.87	0.74
1:AA:1343:G:P	9:AI:139:LYS:HG2	2.27	0.74
18:B3:74:A:OP1	44:BX:7:TYR:HB2	1.87	0.74
2:AT:734:GLN:HE21	2:AT:767:THR:HG22	1.52	0.74
1:AA:1298:C:C6	13:AM:55:HIS:ND1	2.55	0.74
13:AM:88:ARG:NH2	13:AM:115:ARG:HH11	1.86	0.74
18:B3:844:A:O5'	33:BN:133:GLY:HA2	1.86	0.74
1:AA:1118:C:H5'	9:AI:118:ALA:HB3	1.68	0.74
18:B3:2424:U:H5'	36:BQ:7:TYR:HD2	1.52	0.74
18:B3:2387:U:C2'	36:BQ:88:ARG:HB2	2.18	0.74
33:BN:106:LEU:O	33:BN:106:LEU:HD22	1.88	0.74
33:BN:91:GLN:HA	33:BN:94:LEU:CD1	2.10	0.74
42:B0:112:ALA:C	42:B0:117:ILE:HD11	2.08	0.74
18:B3:516:A:H1'	18:B3:1340:G:H5'	1.61	0.74
18:B3:672:G:N1	23:BD:232:LEU:CD1	2.51	0.74
23:BD:34:VAL:HA	23:BD:234:LEU:HD21	1.68	0.74
30:BK:82:ILE:HG23	30:BK:87:GLU:O	1.87	0.74
18:B3:1874:U:O4	21:BB:124:ALA:HB1	1.88	0.74
25:BF:221:HIS:CA	25:BF:228:PHE:HB2	2.16	0.74
18:B3:2526:C:C5'	18:B3:2605:G:C4'	2.65	0.74
18:B3:2653:A:C5'	22:BC:257:ALA:N	2.51	0.74
18:B3:2838:A:OP1	22:BC:221:LYS:CA	2.35	0.74
18:B3:2830:U:H1'	22:BC:126:LYS:NZ	2.00	0.74
22:BC:184:GLY:HA3	22:BC:190:LYS:CG	2.17	0.74
18:B3:2652:U:C1'	22:BC:257:ALA:HB2	2.12	0.74
22:BC:302:LYS:CE	22:BC:305:THR:HB	2.16	0.74
28:BI:38:LYS:CD	28:BI:40:LYS:HE3	2.17	0.74
37:BR:114:ILE:CD1	37:BR:133:SER:HA	2.18	0.74
31:BL:18:LEU:O	31:BL:21:LEU:HG	1.87	0.74
18:B3:1794:G:C2'	35:BP:96:ARG:CG	2.65	0.74
29:BJ:165:LYS:HG2	29:BJ:166:TYR:CE2	2.23	0.74
29:BJ:17:VAL:HG23	29:BJ:68:VAL:C	2.08	0.74
20:BA:157:PHE:CZ	20:BA:165:LEU:HD22	2.22	0.74
39:BT:74:LYS:HB3	39:BT:81:LEU:HD12	1.69	0.74
1:AA:560:U:N1	1:AA:563:A:C5'	2.47	0.74
1:AA:68:G:C3'	1:AA:73:C:OP2	2.36	0.74
1:AA:713:G:N3	11:AK:124:SER:O	2.20	0.74
18:B3:1402:G:P	43:BW:62:GLY:HA2	2.28	0.74
18:B3:897:A:OP1	41:BV:26:LYS:CB	2.35	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:95:LYS:HB2	32:BM:98:LEU:HD23	1.70	0.74
1:AA:992:U:H4'	1:AA:993:G:O5'	1.87	0.74
35:BP:124:LYS:HZ2	35:BP:127:LYS:HD2	1.52	0.74
1:AA:1309:G:C8	13:AM:92:ILE:CG2	0.91	0.74
1:AA:1330:U:H1'	13:AM:93:THR:CB	2.17	0.74
1:AA:1298:C:C3'	13:AM:57:ARG:NH2	2.48	0.74
18:B3:882:A:C4'	45:BY:2:LYS:N	2.50	0.74
24:BE:135:VAL:HG21	24:BE:142:PHE:CZ	2.23	0.74
19:B4:32:G:N2	24:BE:95:TRP:CZ3	2.55	0.74
18:B3:450:C:C3'	18:B3:1304:U:O2'	2.32	0.74
23:BD:7:VAL:HA	23:BD:150:VAL:CG2	2.18	0.74
18:B3:1899:C:H4'	21:BB:224:ILE:C	2.07	0.74
18:B3:796:A:N6	18:B3:817:G:H1'	2.01	0.74
1:AA:190(E):U:P	16:AQ:109:HIS:CB	2.76	0.74
18:B3:91:G:H4'	44:BX:39:PRO:C	2.08	0.74
18:B3:1132:A:O2'	18:B3:2521:A:C3'	2.00	0.74
18:B3:2283:G:C8	28:BI:106:ALA:HB2	2.22	0.74
28:BI:59:GLN:CB	28:BI:128:ARG:HG3	2.18	0.74
28:BI:154:ARG:CZ	28:BI:154:ARG:HB2	2.18	0.74
18:B3:2333:G:H2'	29:BJ:114:LYS:CB	2.17	0.74
18:B3:2345:A:H5'	29:BJ:48:LYS:HD2	1.64	0.74
20:BA:57:ASN:N	20:BA:155:ILE:HG23	2.02	0.74
1:AA:860:A:H5''	3:AB:133:LYS:NZ	2.03	0.74
3:AB:132:ILE:HD12	3:AB:142:VAL:HG11	1.69	0.74
27:BH:170:LYS:HE2	27:BH:175:PHE:CE1	2.23	0.74
40:BU:64:LYS:HD2	40:BU:65:GLY:N	2.02	0.74
41:BV:98:ALA:CA	41:BV:125:LYS:HE2	2.17	0.74
18:B3:697:G:H5''	41:BV:132:LEU:HD22	1.69	0.74
1:AA:1418:A:C2	18:B3:1989:G:N3	2.56	0.74
7:AG:208:TYR:HD2	7:AG:212:LYS:HE3	1.48	0.74
1:AA:840:C:H5''	1:AA:841:U:OP1	1.88	0.74
1:AA:1223:C:P	17:AS:122:THR:OG1	2.46	0.74
1:AA:1330:U:O2	13:AM:93:THR:CB	2.36	0.74
18:B3:1694:G:N2	45:BY:5:PRO:HB2	1.99	0.74
18:B3:537:G:C2'	42:B0:41:VAL:HG12	2.18	0.74
18:B3:537:G:O2'	42:B0:41:VAL:HG12	1.87	0.74
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.51	0.74
9:AI:100:SER:CA	9:AI:116:LEU:HD22	2.17	0.74
9:AI:29:LYS:HD3	9:AI:32:GLY:N	2.03	0.74
24:BE:208:MET:CG	24:BE:211:LEU:H	2.01	0.74
33:BN:26:LYS:N	33:BN:28:THR:HG22	2.02	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:56:ALA:N	33:BN:73:LYS:HB2	2.03	0.74
18:B3:1183:C:C2'	30:BK:85:LEU:HD12	2.17	0.74
21:BB:101:LEU:O	21:BB:101:LEU:HD13	1.88	0.74
25:BF:146:LEU:CD2	25:BF:239:VAL:HG22	2.18	0.74
25:BF:209:PRO:CD	25:BF:242:MET:HG3	2.18	0.74
16:AQ:131:SER:HB3	16:AQ:134:VAL:HG11	1.60	0.74
18:B3:67:A:C1'	39:BT:60:LYS:HZ1	1.99	0.74
22:BC:251:ILE:HG23	22:BC:263:VAL:CG2	2.17	0.74
26:BG:112:ALA:HB2	26:BG:121:LYS:CG	2.18	0.74
35:BP:105:LEU:HD21	35:BP:137:LEU:CD1	2.14	0.74
20:BA:48:ARG:HD2	20:BA:160:LYS:C	2.08	0.74
14:AN:37:ILE:H	14:AN:41:CYS:CB	2.00	0.74
6:AE:157:THR:HG21	8:AH:129:TYR:CE1	2.23	0.74
6:AE:157:THR:HA	8:AH:127:PHE:CE2	2.22	0.74
2:AT:533:THR:H	2:AT:537:HIS:CD2	2.05	0.74
18:B3:2705:U:C5'	27:BH:122:LYS:HZ1	1.94	0.74
27:BH:63:LYS:HE3	32:BM:129:LYS:HB3	1.70	0.74
32:BM:8:ILE:HG13	32:BM:34:VAL:HG23	1.68	0.74
1:AA:712:A:N1	11:AK:124:SER:CA	2.50	0.74
1:AA:938:A:C2	7:AG:76:TYR:HD1	2.06	0.74
1:AA:545:C:OP2	5:AD:30:LEU:HD13	1.86	0.74
5:AD:26:ALA:HB1	5:AD:70:LEU:CD2	2.18	0.74
41:BV:96:GLU:HA	41:BV:123:ILE:HD11	1.69	0.74
20:BA:94:ASN:CB	20:BA:123:LEU:HD12	2.18	0.74
1:AA:56:U:HO2'	2:AT:67:GLY:N	1.84	0.74
18:B3:2370:A:C6	36:BQ:49:GLN:NE2	2.56	0.74
8:AH:81:LYS:HA	8:AH:87:LYS:HG2	1.70	0.74
34:BO:97:PRO:O	34:BO:118:GLY:HA2	1.87	0.74
23:BD:250:THR:CG2	23:BD:253:ALA:H	2.01	0.74
1:AA:739:C:O2'	15:AO:100:HIS:ND1	2.18	0.74
1:AA:328:C:O2	1:AA:328:C:H2'	1.86	0.74
44:BX:36:LEU:HD12	44:BX:36:LEU:H	1.52	0.74
42:B0:34:LYS:HA	42:B0:34:LYS:NZ	2.02	0.73
1:AA:1250:A:C4'	9:AI:71:GLY:CA	2.46	0.73
24:BE:76:ALA:HB3	24:BE:109:THR:OG1	1.88	0.73
36:BQ:84:TYR:CB	36:BQ:86:GLU:HG3	2.17	0.73
33:BN:39:GLU:HG2	33:BN:42:LYS:CB	2.12	0.73
18:B3:516:A:C2	18:B3:1339:G:O2'	2.41	0.73
18:B3:452:G:C8	23:BD:193:TYR:CD2	2.76	0.73
18:B3:745:G:H21	41:BV:76:LYS:CE	2.01	0.73
18:B3:53:C:O4'	18:B3:121:U:C2'	2.36	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:62:LEU:CD2	30:BK:72:SER:HB3	2.17	0.73
47:B9:63:VAL:HG12	47:B9:64:ALA:O	1.87	0.73
25:BF:89:LYS:CE	25:BF:89:LYS:HA	2.18	0.73
1:AA:537:G:C5'	12:AL:143:PRO:HG2	2.02	0.73
18:B3:1229:C:H4'	18:B3:2500:C:C3'	2.17	0.73
22:BC:236:LYS:CE	22:BC:237:LEU:HD23	2.17	0.73
22:BC:246:ARG:CZ	22:BC:248:VAL:HA	2.17	0.73
22:BC:259:VAL:HG22	22:BC:261:TRP:N	2.03	0.73
22:BC:359:ASP:N	38:BS:16:GLY:N	2.35	0.73
22:BC:75:VAL:CG1	22:BC:326:CYS:HB3	2.18	0.73
28:BI:166:ILE:HD12	28:BI:166:ILE:O	1.87	0.73
18:B3:155:C:OP1	31:BL:190:TRP:CZ3	2.41	0.73
31:BL:102:GLU:O	31:BL:105:VAL:HB	1.88	0.73
31:BL:188:LYS:HE3	31:BL:188:LYS:CA	2.15	0.73
35:BP:83:THR:HG23	35:BP:85:GLU:N	2.03	0.73
29:BJ:36:LEU:O	29:BJ:36:LEU:HD12	1.88	0.73
29:BJ:79:LEU:O	29:BJ:79:LEU:HD13	1.88	0.73
20:BA:51:GLY:H	20:BA:54:LYS:CB	2.01	0.73
5:AD:156:ILE:HB	5:AD:164:PHE:HZ	1.53	0.73
6:AE:153:LEU:HD11	8:AH:98:PHE:CA	2.18	0.73
6:AE:153:LEU:HD21	8:AH:97:GLN:C	2.07	0.73
2:AT:464:LEU:HB2	2:AT:513:LYS:HG3	1.69	0.73
37:BR:28:ASN:CB	37:BR:102:ILE:HD12	2.18	0.73
32:BM:133:LYS:HD3	32:BM:133:LYS:N	2.02	0.73
18:B3:1400:C:O3'	43:BW:59:TRP:C	2.13	0.73
1:AA:1075:C:C5'	3:AB:102:THR:CB	2.64	0.73
1:AA:792:A:H4'	1:AA:793:U:H5"	1.69	0.73
40:BU:112:ASP:HB3	40:BU:113:LYS:HZ2	1.53	0.73
40:BU:57:LEU:HA	40:BU:67:GLU:HB2	1.70	0.73
40:BU:60:ARG:HG2	40:BU:103:LYS:HB3	1.69	0.73
1:AA:1342:C:O2	9:AI:138:GLN:CG	2.22	0.73
1:AA:292:G:H21	1:AA:608:A:H2	1.33	0.73
1:AA:438:G:H4'	1:AA:439:A:OP1	1.88	0.73
2:AT:737:GLU:HG2	18:B3:1199:A:N1	2.03	0.73
18:B3:1882:C:OP2	21:BB:199:ARG:CG	2.34	0.73
32:BM:2:VAL:O	32:BM:4:PRO:HD3	1.87	0.73
13:AM:111:ASP:O	13:AM:115:ARG:HG3	1.88	0.73
9:AI:42:ILE:HD11	9:AI:45:PHE:HB2	1.67	0.73
24:BE:200:PHE:HD1	24:BE:202:GLY:H	1.33	0.73
36:BQ:74:VAL:HB	36:BQ:91:LEU:HD21	1.70	0.73
42:B0:96:ILE:HD11	42:B0:100:ILE:HG21	1.68	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:517:U:O2'	18:B3:1339:G:C1'	2.25	0.73
18:B3:29:C:C3'	18:B3:1342:C:H5'	1.98	0.73
18:B3:721:A:OP1	34:BO:71:LEU:CG	2.35	0.73
18:B3:1360:C:C2'	23:BD:93:CYS:O	2.36	0.73
18:B3:170:U:H5''	31:BL:82:LYS:HD2	0.75	0.73
21:BB:110:THR:HG22	21:BB:135:ILE:CG2	2.18	0.73
21:BB:52:GLY:H	21:BB:53:ARG:HH21	1.34	0.73
21:BB:61:VAL:HB	21:BB:71:ARG:NH2	2.03	0.73
25:BF:223:ILE:O	25:BF:224:GLN:HG2	1.89	0.73
1:AA:231:G:N3	1:AA:263:A:H2	1.86	0.73
22:BC:274:ARG:HH22	22:BC:327:ILE:HG21	1.50	0.73
22:BC:274:ARG:NH2	22:BC:327:ILE:HG21	2.04	0.73
18:B3:1054:G:C4	28:BI:111:LEU:HD11	2.23	0.73
28:BI:31:ILE:HD12	28:BI:66:GLU:HA	1.69	0.73
37:BR:11:PHE:HB3	37:BR:86:ARG:CG	2.18	0.73
37:BR:95:PHE:CE2	38:BS:23:ARG:CA	2.55	0.73
18:B3:2737:C:P	35:BP:62:THR:CG2	2.67	0.73
29:BJ:18:LEU:HG	29:BJ:68:VAL:CG2	2.16	0.73
20:BA:161:LYS:H	20:BA:161:LYS:HD3	1.53	0.73
1:AA:45:U:OP1	1:AA:308:C:C5'	2.36	0.73
2:AT:463:LEU:C	2:AT:513:LYS:NZ	2.39	0.73
18:B3:164:G:H4'	41:BV:31:ARG:HG3	0.73	0.73
18:B3:2557:U:N3	18:B3:2800:A:N7	2.36	0.73
18:B3:2576:A:H2	18:B3:2800:A:H61	1.33	0.73
43:BW:29:PRO:O	43:BW:32:VAL:HG12	1.88	0.73
46:BZ:79:ARG:NH2	46:BZ:80:ALA:HB3	2.03	0.73
40:BU:116:LYS:O	40:BU:119:ILE:HG23	1.88	0.73
40:BU:85:VAL:CG1	40:BU:96:PRO:HB3	2.18	0.73
1:AA:21:G:H1'	1:AA:885:G:C4'	2.18	0.73
1:AA:309:G:H21	1:AA:607:A:H61	1.35	0.73
1:AA:125:U:H5''	1:AA:291:C:O4'	1.87	0.73
1:AA:987:G:C5	1:AA:1014:A:C2	2.76	0.73
9:AI:28:ILE:HG23	9:AI:64:ILE:CG2	2.19	0.73
9:AI:98:GLU:H	9:AI:103:GLU:N	1.86	0.73
10:AJ:28:SER:OG	10:AJ:34:LEU:HG	1.87	0.73
24:BE:33:ARG:HA	24:BE:36:LEU:HG	1.71	0.73
24:BE:65:ILE:HD12	24:BE:75:LEU:N	2.04	0.73
30:BK:112:ILE:HG22	30:BK:132:ILE:HD13	1.69	0.73
21:BB:6:ASN:O	21:BB:9:LYS:HG2	1.89	0.73
25:BF:100:LYS:HD2	25:BF:100:LYS:O	1.88	0.73
25:BF:174:LYS:O	25:BF:174:LYS:HD2	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(D):U:H3'	16:AQ:137:ASN:CA	1.72	0.73
1:AA:190(E):U:H5'	16:AQ:109:HIS:CD2	2.24	0.73
16:AQ:124:VAL:HG21	16:AQ:136:PHE:HB3	1.69	0.73
44:BX:17:LEU:HG	44:BX:58:ILE:CG2	2.18	0.73
18:B3:2819:C:C3'	22:BC:100:SER:HA	2.18	0.73
22:BC:173:LYS:HE3	22:BC:174:LYS:H	1.51	0.73
18:B3:2613:G:N2	22:BC:238:PRO:HD2	2.03	0.73
18:B3:2065:C:C6	22:BC:255:HIS:CE1	2.75	0.73
22:BC:34:ASP:OD1	22:BC:183:ASN:HB3	1.87	0.73
22:BC:76:THR:HG23	22:BC:326:CYS:SG	2.28	0.73
22:BC:45:PHE:CE2	22:BC:83:VAL:HB	2.23	0.73
18:B3:2518:C:O2	28:BI:158:LYS:HB2	1.88	0.73
37:BR:92:PHE:CD1	38:BS:20:LEU:CG	2.71	0.73
26:BG:159:ILE:HD11	31:BL:40:ARG:CD	2.16	0.73
18:B3:2336:G:N7	29:BJ:118:SER:HB3	2.02	0.73
20:BA:151:VAL:O	20:BA:160:LYS:HG3	1.87	0.73
1:AA:6:G:C5'	1:AA:298:A:O3'	2.36	0.73
1:AA:400:C:O2	1:AA:622:A:C2'	2.36	0.73
3:AB:169:ILE:HD12	3:AB:173:TRP:CZ3	2.23	0.73
3:AB:88:PHE:CE1	3:AB:174:TYR:HB3	2.23	0.73
2:AT:536:LEU:HD11	18:B3:2699:A:H5'	1.68	0.73
18:B3:2779:G:O2'	27:BH:163:GLN:CB	2.30	0.73
27:BH:161:LEU:CA	27:BH:164:ILE:HG13	2.18	0.73
40:BU:31:LEU:HD21	40:BU:78:PHE:O	1.87	0.73
1:AA:21:G:C4'	1:AA:885:G:P	2.72	0.73
2:AT:748:ASN:CB	18:B3:2508:C:O2	2.37	0.73
18:B3:1153:C:P	18:B3:1155:G:OP2	2.46	0.73
29:BJ:133:PRO:HG2	29:BJ:135:ALA:N	2.01	0.73
40:BU:117:ALA:O	40:BU:118:LEU:HD23	1.88	0.73
18:B3:2586:U:H3	18:B3:2592:G:H22	1.37	0.73
33:BN:48:GLU:OE2	33:BN:48:GLU:HA	1.88	0.73
1:AA:1310:G:OP1	13:AM:116:LEU:HD21	1.89	0.73
18:B3:618:G:H8	42:B0:46:PHE:CD1	2.02	0.73
1:AA:1278:U:H5''	1:AA:1279:A:C5'	2.19	0.73
9:AI:102:ASN:N	9:AI:105:LYS:HB2	2.03	0.73
9:AI:18:VAL:CG2	9:AI:67:ARG:HB3	2.17	0.73
24:BE:64:ILE:O	24:BE:74:VAL:HG23	1.89	0.73
23:BD:215:VAL:HG11	23:BD:218:LEU:HD23	1.69	0.73
18:B3:678:G:O4'	23:BD:259:GLN:OE1	2.06	0.73
34:BO:116:LYS:HG2	34:BO:117:ALA:H	1.53	0.73
47:B9:45:THR:HG21	47:B9:58:CYS:SG	2.28	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:134:ILE:CG1	21:BB:148:ARG:HG3	2.18	0.73
18:B3:782:G:O3'	21:BB:189:ARG:CZ	2.35	0.73
21:BB:56:PRO:CG	47:B9:51:ALA:HB3	2.17	0.73
18:B3:1206:C:C2'	18:B3:1207:A:O4'	2.36	0.73
18:B3:91:G:H4'	44:BX:39:PRO:O	1.87	0.73
18:B3:2037:C:H5''	37:BR:47:ASN:O	1.88	0.73
18:B3:2310:G:C3'	28:BI:119:TRP:CZ2	2.67	0.73
22:BC:44:SER:OG	22:BC:339:LYS:HD2	1.87	0.73
22:BC:341:LEU:HD23	22:BC:341:LEU:H	1.53	0.73
22:BC:41:ALA:N	22:BC:182:LEU:HB3	2.01	0.73
28:BI:59:GLN:HG2	28:BI:126:ALA:CB	2.18	0.73
18:B3:2244:A:O3'	31:BL:27:TRP:HZ3	1.71	0.73
18:B3:1785:G:N1	18:B3:2884:G:H5'	2.01	0.73
18:B3:898:G:P	41:BV:25:ARG:HG2	2.27	0.73
29:BJ:163:LYS:HD2	29:BJ:169:ASP:HA	1.69	0.73
20:BA:102:LYS:HG3	20:BA:105:LYS:HE3	1.70	0.73
18:B3:2220:C:O2'	20:BA:211:GLY:O	2.01	0.73
14:AN:29:LEU:HD13	14:AN:38:CYS:HA	1.70	0.73
37:BR:62:VAL:HG23	37:BR:70:ARG:HA	1.70	0.73
9:AI:13:LYS:HZ1	9:AI:74:VAL:HG12	1.53	0.73
27:BH:18:VAL:HG13	27:BH:26:LYS:HZ3	1.52	0.73
1:AA:920:U:H4'	1:AA:1080:A:C1'	2.12	0.73
35:BP:20:LYS:C	35:BP:51:LYS:HG2	2.08	0.73
18:B3:100:C:O2	40:BU:24:SER:HB2	1.88	0.73
2:AT:738:GLN:CA	18:B3:1199:A:H61	1.85	0.73
11:AK:29:VAL:HB	11:AK:70:CYS:SG	2.27	0.73
18:B3:875:A:H1'	21:BB:203:MET:SD	2.29	0.73
6:AE:97:PHE:O	6:AE:116:THR:HG23	1.89	0.73
1:AA:280:C:C2	16:AQ:102:ARG:HG2	2.23	0.73
32:BM:84:ARG:CZ	32:BM:87:VAL:HG21	2.17	0.73
7:AG:173:LEU:HD12	7:AG:174:LEU:N	2.03	0.73
18:B3:1096:U:O3'	25:BF:213:TRP:HZ3	1.62	0.73
38:BS:39:LEU:HD23	38:BS:44:LYS:HB3	1.68	0.73
12:AL:52:ILE:O	12:AL:52:ILE:HD12	1.89	0.73
1:AA:988:G:O4'	1:AA:1014:A:O4'	1.98	0.73
18:B3:540:A:P	42:B0:18:LYS:HB2	2.29	0.73
1:AA:1118:C:H5''	9:AI:118:ALA:HB3	1.59	0.73
19:B4:47:A:C5'	24:BE:154:THR:N	2.51	0.73
18:B3:553:G:OP1	42:B0:69:SER:OG	2.05	0.73
23:BD:160:LYS:HE2	23:BD:163:GLU:HG2	1.70	0.73
18:B3:2101:A:H8	23:BD:71:ALA:CA	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:82:LYS:HE2	31:BL:82:LYS:HA	1.69	0.73
21:BB:48:VAL:CG2	21:BB:59:LYS:HE2	2.18	0.73
18:B3:2526:C:O4'	18:B3:2604:A:O2'	2.06	0.73
18:B3:2763:G:C2'	37:BR:14:SER:OG	2.36	0.73
22:BC:269:ARG:NH1	22:BC:269:ARG:HB3	2.03	0.73
37:BR:13:ILE:HD12	37:BR:14:SER:O	1.87	0.73
20:BA:205:VAL:HG13	20:BA:214:PHE:O	1.88	0.73
18:B3:1449:G:C5'	39:BT:110:ASN:HD21	1.92	0.73
10:AJ:70:THR:CG2	14:AN:40:GLN:H	1.86	0.73
1:AA:6:G:H2'	6:AE:196:TYR:HE2	1.53	0.73
3:AB:181:LEU:HB3	3:AB:186:ALA:HB3	1.70	0.73
8:AH:30:SER:O	8:AH:33:ILE:HG22	1.89	0.73
1:AA:1370:G:OP2	9:AI:123:PRO:CG	2.35	0.73
18:B3:2560:C:C3'	27:BH:168:ARG:HG3	2.18	0.73
27:BH:64:HIS:ND1	27:BH:68:LEU:HD21	2.02	0.73
1:AA:1071:C:OP2	6:AE:90:ARG:NE	2.20	0.73
1:AA:1075:C:C4'	3:AB:103:PRO:CD	2.59	0.73
46:BZ:25:THR:CG2	46:BZ:70:ARG:HG2	2.19	0.73
41:BV:111:ILE:H	41:BV:111:ILE:HD13	1.53	0.73
18:B3:697:G:H2'	41:BV:112:LEU:HD11	1.70	0.73
1:AA:1064:G:H4'	1:AA:1065:U:C5'	2.19	0.73
18:B3:1438:G:N2	18:B3:1685:A:H8	1.86	0.73
17:AS:90:ILE:CG1	17:AS:112:LEU:HD11	2.18	0.73
42:B0:35:GLN:CD	42:B0:43:ARG:HB2	2.09	0.73
18:B3:2363:G:H21	36:BQ:8:ARG:HD3	1.48	0.73
33:BN:73:LYS:N	33:BN:73:LYS:HD2	2.03	0.73
18:B3:2051:G:P	33:BN:86:SER:H	2.12	0.73
18:B3:1306:U:OP1	23:BD:196:ARG:NE	2.19	0.73
23:BD:186:LEU:HA	23:BD:199:THR:CA	2.17	0.73
34:BO:30:VAL:HB	34:BO:49:LEU:HD12	1.71	0.73
18:B3:1847:A:O2'	21:BB:179:LEU:CA	2.31	0.73
18:B3:1861:C:O3'	21:BB:7:GLN:CB	2.37	0.73
21:BB:195:TRP:CD1	21:BB:196:PRO:HA	2.22	0.73
21:BB:60:VAL:HG12	21:BB:61:VAL:H	1.53	0.73
21:BB:61:VAL:O	21:BB:66:TYR:HB2	1.89	0.73
25:BF:87:ARG:HD3	25:BF:102:LEU:HD23	1.70	0.73
18:B3:1287:A:H2	25:BF:106:ARG:CD	1.91	0.73
18:B3:69:A:H5'	44:BX:52:ALA:HB1	1.65	0.73
18:B3:2655:U:O2'	22:BC:265:ARG:CB	2.30	0.73
18:B3:2819:C:H2'	22:BC:100:SER:HA	1.69	0.73
18:B3:2520:G:H5''	28:BI:160:PRO:HA	0.73	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2762:C:C1'	37:BR:83:LYS:HD2	2.19	0.73
26:BG:151:LEU:HD21	26:BG:185:LEU:HB2	1.69	0.73
18:B3:1795:G:OP1	35:BP:100:VAL:HG11	1.88	0.73
41:BV:25:ARG:HG2	41:BV:27:HIS:CD2	2.24	0.73
39:BT:65:PRO:CA	39:BT:83:PHE:HB3	2.19	0.73
5:AD:99:LEU:HB2	5:AD:103:ASP:C	2.09	0.73
1:AA:402:G:O3'	5:AD:144:PRO:CB	2.37	0.73
18:B3:1120:U:N3	18:B3:1226:G:P	2.61	0.73
1:AA:678:U:C1'	11:AK:125:THR:CG2	2.60	0.73
46:BZ:74:VAL:HG23	46:BZ:77:LYS:NZ	2.04	0.73
18:B3:2853:U:P	22:BC:170:LEU:HG	2.28	0.73
32:BM:63:PHE:HD2	32:BM:64:ASN:HB2	1.53	0.73
24:BE:190:ILE:CG1	24:BE:192:PRO:HD2	2.13	0.73
1:AA:280:C:O2	16:AQ:102:ARG:CG	2.33	0.73
4:AC:167:ILE:HD13	4:AC:188:MET:HA	1.70	0.73
1:AA:838:G:C2'	1:AA:839:U:H5''	2.16	0.73
30:BK:136:ALA:O	30:BK:139:VAL:HG12	1.89	0.73
18:B3:1414:A:O2'	45:BY:13:LYS:NZ	2.20	0.73
42:B0:33:ARG:HG3	42:B0:34:LYS:O	1.88	0.73
33:BN:124:GLN:HB2	33:BN:139:GLU:CG	2.18	0.73
42:B0:95:GLU:HG3	42:B0:120:THR:HG21	1.71	0.73
18:B3:449:A:N3	18:B3:1348:A:C6	2.56	0.73
23:BD:191:GLY:HA2	23:BD:194:ARG:HH11	1.53	0.73
23:BD:205:LEU:HG	23:BD:206:VAL:H	1.53	0.73
23:BD:133:LEU:HD21	23:BD:243:LEU:CG	2.18	0.73
18:B3:894:A:C2	23:BD:98:MET:HE3	2.23	0.73
47:B9:35:ARG:HB2	47:B9:44:LYS:CD	2.18	0.73
21:BB:134:ILE:HG13	21:BB:148:ARG:HG3	1.69	0.73
18:B3:2441:U:HO2'	41:BV:60:PHE:HZ	0.75	0.73
18:B3:2064:U:H3'	22:BC:255:HIS:CE1	2.24	0.73
18:B3:2717:C:O2'	18:B3:2718:C:H5''	1.89	0.73
18:B3:2808:U:C2'	22:BC:15:PHE:HA	2.17	0.73
18:B3:1733:A:C4'	22:BC:225:PHE:O	2.37	0.73
18:B3:2547:C:H5'	22:BC:246:ARG:NH1	2.04	0.73
18:B3:2837:U:C4	22:BC:333:ARG:HD2	2.20	0.73
28:BI:59:GLN:CA	28:BI:128:ARG:HG3	2.17	0.73
37:BR:117:PRO:HA	37:BR:135:VAL:CG1	2.18	0.73
26:BG:130:ALA:CB	26:BG:202:VAL:H	2.00	0.73
26:BG:150:VAL:HB	26:BG:198:ALA:HB1	1.70	0.73
18:B3:434:U:H5''	31:BL:156:LYS:NZ	2.03	0.73
18:B3:1809:G:N2	18:B3:2732:U:H4'	2.04	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:70:THR:O	14:AN:39:ARG:N	2.21	0.73
5:AD:82:ARG:O	5:AD:85:VAL:HG12	1.87	0.73
8:AH:76:PRO:HG3	8:AH:129:TYR:CZ	2.24	0.73
6:AE:153:LEU:CD2	8:AH:97:GLN:HA	2.18	0.73
12:AL:112:LYS:CE	12:AL:121:ARG:HD3	2.08	0.73
18:B3:2560:C:H5'	27:BH:168:ARG:HD2	0.74	0.73
18:B3:1119:G:N2	18:B3:1246:A:C2	2.57	0.73
18:B3:1117:A:O4'	18:B3:1226:G:C8	2.24	0.73
18:B3:1228:C:O3'	32:BM:47:PHE:CE1	2.35	0.73
1:AA:779:C:H5'	11:AK:131:ARG:C	1.99	0.73
18:B3:1381:A:N1	43:BW:25:LYS:O	2.22	0.73
18:B3:2407:G:C2	46:BZ:10:TYR:OH	2.41	0.73
1:AA:938:A:H2	7:AG:76:TYR:CD1	2.05	0.73
40:BU:85:VAL:HG12	40:BU:96:PRO:HB3	1.70	0.73
18:B3:903:U:OP2	41:BV:14:VAL:HG23	1.88	0.73
3:AB:110:ILE:HD13	3:AB:110:ILE:O	1.87	0.73
4:AC:100:GLN:HG3	4:AC:125:VAL:CG2	2.18	0.73
18:B3:499:G:O2'	33:BN:19:SER:N	2.21	0.73
23:BD:11:THR:HG23	23:BD:13:GLU:N	1.97	0.73
33:BN:127:ARG:HB2	33:BN:138:TYR:CB	2.18	0.73
6:AE:187:LEU:HD22	6:AE:195:VAL:HG21	1.70	0.73
36:BQ:39:ILE:HG12	36:BQ:99:SER:HB3	1.70	0.73
20:BA:8:GLN:HE21	20:BA:216:LEU:HD11	1.54	0.73
22:BC:7:ALA:HB3	22:BC:8:PRO:C	2.09	0.73
1:AA:1302:U:C2'	13:AM:54:LEU:HD22	2.18	0.73
1:AA:1318:A:H3'	17:AS:54:ALA:CB	1.98	0.73
17:AS:87:PRO:HG3	17:AS:112:LEU:HD23	1.71	0.73
1:AA:1220:G:O2'	17:AS:96:ILE:HA	1.88	0.73
45:BY:4:THR:HB	45:BY:5:PRO:C	2.09	0.73
19:B4:34:A:H3'	24:BE:185:PHE:HE1	1.51	0.73
34:BO:62:VAL:HG11	34:BO:87:VAL:CA	2.19	0.73
18:B3:1181:A:H2	30:BK:105:GLN:CB	1.80	0.73
19:B4:86:G:N3	25:BF:220:LYS:CG	2.42	0.73
18:B3:1024:G:H2'	25:BF:104:LEU:HD11	1.69	0.73
25:BF:86:VAL:HG12	25:BF:134:ALA:HB3	1.70	0.73
18:B3:1133:A:H1'	18:B3:2520:G:N3	2.03	0.73
18:B3:2819:C:C4	22:BC:100:SER:HB3	2.21	0.73
22:BC:52:MET:HA	22:BC:52:MET:HE3	1.70	0.73
28:BI:65:LEU:HD12	28:BI:68:ALA:O	1.89	0.73
18:B3:1708:C:OP1	35:BP:80:ARG:HG2	1.88	0.73
3:AB:171:LEU:HA	3:AB:174:TYR:CD2	2.23	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:66:ILE:HG22	3:AB:67:PRO:HD3	1.71	0.73
1:AA:523:A:H62	12:AL:113:ALA:HB1	1.48	0.73
27:BH:31:ARG:HB3	27:BH:149:ASN:OD1	1.87	0.73
27:BH:7:GLU:HB3	27:BH:56:ALA:HB2	1.69	0.73
35:BP:11:ALA:HB2	35:BP:16:VAL:HG23	1.69	0.73
43:BW:16:HIS:HB2	43:BW:30:ARG:HG3	1.68	0.73
43:BW:28:ALA:HA	43:BW:59:TRP:CZ2	2.22	0.73
18:B3:2081:A:H4'	32:BM:69:PRO:CB	2.18	0.73
4:AC:102:GLU:HA	4:AC:172:ARG:CG	2.18	0.73
20:BA:179:LEU:HD13	20:BA:179:LEU:O	1.89	0.73
1:AA:1302:U:O5'	13:AM:54:LEU:CG	2.36	0.73
1:AA:1316:G:N1	17:AS:49:MET:CE	2.45	0.73
42:B0:43:ARG:HA	42:B0:43:ARG:NE	2.04	0.73
1:AA:1148:U:H2'	1:AA:1149:C:O4'	1.89	0.73
24:BE:80:SER:N	24:BE:101:THR:HG21	2.03	0.73
19:B4:50:G:O4'	24:BE:94:ASN:N	2.08	0.73
18:B3:1428:C:H4'	33:BN:124:GLN:HE22	1.53	0.73
18:B3:1308:A:H8	23:BD:202:ARG:NH2	1.87	0.73
18:B3:1163:G:C5'	30:BK:54:LYS:CB	2.62	0.73
28:BI:152:LEU:H	28:BI:154:ARG:NH2	1.86	0.73
18:B3:1806:G:C3'	18:B3:2884:G:N2	2.38	0.73
18:B3:2337:G:P	29:BJ:103:PHE:CD2	2.82	0.73
29:BJ:157:ASP:O	29:BJ:160:SER:HB3	1.87	0.73
29:BJ:162:PHE:HB3	29:BJ:166:TYR:OH	1.89	0.73
18:B3:2165:G:H1'	20:BA:207:LYS:HE3	1.69	0.73
1:AA:875:C:O2'	8:AH:11:ASN:ND2	2.19	0.73
3:AB:119:LEU:HD13	3:AB:141:PRO:HB2	1.69	0.73
5:AD:99:LEU:HA	5:AD:103:ASP:N	2.04	0.73
37:BR:32:ARG:HG3	37:BR:64:LYS:C	2.08	0.73
18:B3:2561:C:C5'	18:B3:2777:G:O2'	2.36	0.73
18:B3:1118:A:C4'	18:B3:1228:C:H41	1.96	0.73
18:B3:2779:G:H1'	27:BH:163:GLN:HB3	1.70	0.73
43:BW:13:ILE:O	43:BW:17:LYS:HG2	1.88	0.73
41:BV:120:VAL:HG11	41:BV:122:VAL:CG1	2.19	0.73
18:B3:1886:A:H5'	47:B9:19:SER:HB2	1.70	0.73
18:B3:1470:A:C1'	31:BL:95:ARG:NH2	2.40	0.73
11:AK:55:SER:HA	11:AK:88:THR:OG1	1.89	0.73
21:BB:201:VAL:HG12	21:BB:216:GLN:OE1	1.89	0.73
42:B0:66:LEU:HD11	42:B0:70:GLY:C	2.09	0.73
1:AA:430:A:O2'	5:AD:40:LYS:NZ	2.14	0.73
8:AH:110:MET:HB3	8:AH:114:GLU:HB2	1.70	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:53:ARG:HG2	5:AD:54:ARG:H	1.53	0.73
1:AA:1296:C:C5'	13:AM:52:VAL:O	2.37	0.73
13:AM:16:ARG:HA	13:AM:21:ASN:O	1.89	0.73
19:B4:30:C:H42	24:BE:57:ASN:HA	1.54	0.73
24:BE:111:GLN:H	24:BE:115:LEU:CB	2.01	0.73
18:B3:516:A:C1'	18:B3:1340:G:H5'	2.17	0.73
18:B3:35:U:C5'	23:BD:49:TYR:HA	2.19	0.73
18:B3:449:A:H62	18:B3:1349:G:H3'	0.71	0.73
18:B3:111:C:H5'	18:B3:118:G:O6	1.89	0.73
18:B3:1359:U:O4	23:BD:71:ALA:C	2.18	0.73
23:BD:56:GLY:O	23:BD:83:ARG:HB2	1.89	0.73
21:BB:127:ARG:NE	21:BB:128:ALA:H	1.87	0.73
21:BB:138:HIS:HB2	21:BB:141:ASP:CA	2.18	0.73
21:BB:43:ILE:HG13	21:BB:61:VAL:HG11	1.70	0.73
18:B3:945:U:O4'	25:BF:125:LEU:CD2	2.37	0.73
25:BF:202:TRP:HB3	25:BF:203:PRO:HA	1.71	0.73
1:AA:129(A):G:O2'	16:AQ:125:GLY:O	2.06	0.73
1:AA:131:C:C6	16:AQ:128:ARG:CD	2.70	0.73
1:AA:132:C:OP2	16:AQ:128:ARG:CZ	2.37	0.73
18:B3:2819:C:H3'	22:BC:100:SER:CA	2.19	0.73
22:BC:210:GLN:HB2	22:BC:351:GLU:O	1.89	0.73
18:B3:1733:A:C4	22:BC:225:PHE:HE1	2.06	0.73
28:BI:80:SER:HB3	28:BI:83:ASP:OD1	1.88	0.73
28:BI:98:ARG:HB2	28:BI:120:GLY:C	2.10	0.73
37:BR:81:GLN:HA	37:BR:81:GLN:HE21	1.52	0.73
26:BG:141:LEU:HD11	26:BG:150:VAL:HG11	1.71	0.73
26:BG:123:ASP:N	26:BG:188:LEU:HD13	2.04	0.73
31:BL:52:TYR:HE2	31:BL:60:ILE:HG23	1.54	0.73
18:B3:2737:C:N4	35:BP:61:ARG:HH21	1.85	0.73
29:BJ:163:LYS:HE2	29:BJ:169:ASP:HA	1.69	0.73
20:BA:108:ASN:ND2	20:BA:162:VAL:HB	1.93	0.73
2:AT:464:LEU:HD21	2:AT:510:ARG:HG2	1.69	0.73
18:B3:1993:C:O5'	37:BR:71:LYS:HA	1.88	0.73
27:BH:64:HIS:CG	32:BM:127:ARG:HB3	2.24	0.73
18:B3:215:A:C4'	41:BV:58:ARG:CD	2.55	0.73
1:AA:1075:C:OP1	3:AB:102:THR:HB	1.88	0.73
1:AA:545:C:H5''	5:AD:66:ASP:HB2	1.70	0.73
18:B3:2434:A:OP1	46:BZ:35:PHE:HB2	1.87	0.73
1:AA:1340:A:O3'	9:AI:141:TYR:CE2	2.30	0.73
18:B3:2319:C:OP2	46:BZ:1:VAL:HG21	1.89	0.73
10:AJ:62:VAL:CG1	10:AJ:83:GLU:HG2	2.18	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:104:GLY:CA	3:AB:107:THR:HG22	2.09	0.73
3:AB:86:LEU:HD12	3:AB:87:LYS:N	2.04	0.73
18:B3:1972:U:H2'	18:B3:1973:A:H5'	1.71	0.73
18:B3:1810:C:C2	18:B3:2753:G:N9	2.47	0.73
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.70	0.72
9:AI:47:VAL:HG11	9:AI:80:ILE:HG22	1.68	0.72
9:AI:47:VAL:HG13	9:AI:81:ARG:CA	2.19	0.72
18:B3:2296:C:H5''	36:BQ:8:ARG:O	1.88	0.72
24:BE:55:PHE:HE1	24:BE:159:VAL:HG22	1.48	0.72
36:BQ:75:ILE:HG13	36:BQ:76:ILE:H	1.53	0.72
1:AA:317:G:N2	1:AA:1468:A:H1'	2.04	0.72
1:AA:336:C:P	1:AA:1433:A:O3'	2.47	0.72
33:BN:59:PHE:CE1	33:BN:80:ALA:HA	2.24	0.72
18:B3:1312:G:C2	23:BD:186:LEU:HD11	2.21	0.72
18:B3:1652:C:C5'	21:BB:174:VAL:CG1	2.65	0.72
18:B3:1652:C:C5'	21:BB:174:VAL:HG11	2.19	0.72
18:B3:1872:C:C2	21:BB:22:ARG:HG2	2.24	0.72
18:B3:693:A:O3'	41:BV:59:TYR:CZ	2.42	0.72
18:B3:1285:U:H5''	25:BF:155:ILE:HD13	1.66	0.72
1:AA:190(D):U:N3	16:AQ:111:SER:N	2.38	0.72
16:AQ:70:LEU:HB2	16:AQ:124:VAL:HG12	1.71	0.72
18:B3:107:U:H5	44:BX:60:GLU:O	1.72	0.72
18:B3:2072:G:H4'	18:B3:2490:A:O2'	1.89	0.72
22:BC:52:MET:CB	22:BC:76:THR:HA	2.18	0.72
22:BC:45:PHE:CZ	22:BC:83:VAL:HB	2.23	0.72
31:BL:136:PRO:HA	31:BL:151:CYS:SG	2.29	0.72
18:B3:188:C:O2'	31:BL:187:ARG:CG	2.36	0.72
31:BL:41:PRO:HG2	31:BL:48:ARG:HH12	1.54	0.72
18:B3:2336:G:N2	29:BJ:127:TYR:CD2	2.54	0.72
29:BJ:33:SER:O	29:BJ:37:GLU:HG3	1.89	0.72
20:BA:55:LEU:HD13	20:BA:158:GLN:H	1.52	0.72
18:B3:1508:C:H5'	39:BT:77:ASP:C	2.09	0.72
37:BR:74:MET:CB	37:BR:75:PRO:HA	2.19	0.72
32:BM:13:HIS:CE1	32:BM:121:GLN:HB3	2.23	0.72
32:BM:14:LEU:HA	32:BM:41:ASN:O	1.88	0.72
1:AA:634:C:H2'	16:AQ:92:TYR:OH	1.88	0.72
18:B3:371:U:H2'	18:B3:372:A:H8	1.54	0.72
16:AQ:74:VAL:HG13	16:AQ:83:ILE:CG1	2.19	0.72
18:B3:1589:G:N2	18:B3:1605:G:H2'	2.05	0.72
1:AA:1168:A:H2'	1:AA:1169:A:C8	2.24	0.72
1:AA:501:C:H2'	1:AA:502:G:H8	1.52	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:177:GLY:O	7:AG:180:GLU:HB3	1.89	0.72
1:AA:1241:G:OP2	7:AG:187:LYS:HE3	1.90	0.72
13:AM:85:PHE:HA	13:AM:100:THR:CA	2.18	0.72
9:AI:100:SER:HB3	9:AI:116:LEU:HD13	1.71	0.72
9:AI:37:LEU:O	9:AI:40:PRO:HD3	1.89	0.72
19:B4:28:U:H2'	19:B4:29:C:C6	2.24	0.72
24:BE:23:ARG:HH22	24:BE:26:GLY:CA	2.02	0.72
42:B0:85:LEU:HD21	42:B0:117:ILE:HG21	1.70	0.72
18:B3:1306:U:OP2	23:BD:196:ARG:C	2.28	0.72
34:BO:30:VAL:HB	34:BO:49:LEU:CD1	2.19	0.72
34:BO:62:VAL:HG13	34:BO:88:THR:HG22	1.69	0.72
18:B3:471:G:C5'	45:BY:15:HIS:CE1	2.71	0.72
18:B3:1846:U:OP2	21:BB:197:LYS:CE	2.36	0.72
18:B3:1855:G:H1	21:BB:150:PRO:CG	2.02	0.72
21:BB:5:ARG:HD3	21:BB:5:ARG:O	1.89	0.72
21:BB:72:GLU:C	21:BB:74:ILE:HD12	2.10	0.72
21:BB:98:GLY:H	21:BB:165:ILE:CG2	2.01	0.72
41:BV:62:LYS:HA	41:BV:66:HIS:CG	2.25	0.72
25:BF:179:SER:CA	25:BF:183:LEU:HD21	2.18	0.72
18:B3:2300:A:C2	36:BQ:10:ARG:NH1	2.56	0.72
18:B3:1132:A:HO2'	18:B3:2521:A:C4'	1.01	0.72
22:BC:246:ARG:NH1	22:BC:248:VAL:HG22	2.04	0.72
18:B3:2763:G:O5'	37:BR:14:SER:HB2	1.80	0.72
37:BR:95:PHE:CG	38:BS:21:PHE:CD1	2.75	0.72
31:BL:161:ARG:HG2	31:BL:166:THR:HG21	1.72	0.72
7:AG:112:ILE:CG2	7:AG:113:ILE:HD12	2.14	0.72
41:BV:40:HIS:NE2	41:BV:42:ILE:HD11	2.03	0.72
19:B4:39:U:H1'	19:B4:44:A:N6	2.04	0.72
29:BJ:33:SER:O	29:BJ:36:LEU:HG	1.89	0.72
10:AJ:71:PRO:N	14:AN:36:ASN:HB2	2.03	0.72
8:AH:101:VAL:H	8:AH:112:HIS:HD2	1.37	0.72
8:AH:76:PRO:HG3	8:AH:129:TYR:CD2	2.24	0.72
8:AH:10:LEU:HD12	8:AH:79:ASN:ND2	2.05	0.72
40:BU:35:LEU:HA	40:BU:106:ILE:CG1	2.19	0.72
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.24	0.72
1:AA:499:A:N6	5:AD:19:TYR:O	2.22	0.72
18:B3:20:G:HO2'	33:BN:5:ALA:HA	0.86	0.72
32:BM:33:VAL:HG11	32:BM:104:PHE:CE1	2.19	0.72
24:BE:61:ILE:HG13	24:BE:79:TYR:HD2	1.54	0.72
2:AT:630:ALA:O	2:AT:633:ILE:HG23	1.89	0.72
1:AA:353:A:H5'	1:AA:353:A:H8	1.52	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:17:LEU:HD22	3:AB:17:LEU:H	1.53	0.72
17:AS:58:LYS:HD2	17:AS:58:LYS:H	1.53	0.72
9:AI:100:SER:HA	9:AI:116:LEU:CB	2.20	0.72
24:BE:103:LEU:HD13	24:BE:104:LEU:HD23	1.72	0.72
24:BE:47:PRO:HB2	24:BE:67:SER:HB3	1.71	0.72
19:B4:51:A:C4	24:BE:58:LYS:HB3	0.43	0.72
24:BE:43:LYS:CE	24:BE:65:ILE:HD13	2.20	0.72
36:BQ:74:VAL:N	36:BQ:89:LEU:HD22	2.04	0.72
36:BQ:43:LYS:HE3	36:BQ:95:HIS:NE2	2.04	0.72
23:BD:31:PRO:CA	23:BD:34:VAL:HG22	2.20	0.72
21:BB:103:LEU:CD2	21:BB:106:VAL:HG11	2.18	0.72
21:BB:161:ALA:CB	21:BB:162:ARG:HH21	2.02	0.72
21:BB:116:GLU:HG2	21:BB:162:ARG:NE	2.04	0.72
21:BB:182:GLY:CA	21:BB:185:PHE:HD1	2.02	0.72
21:BB:97:VAL:HA	21:BB:165:ILE:HG21	1.70	0.72
25:BF:236:ASN:O	25:BF:239:VAL:HG12	1.89	0.72
18:B3:1086:A:P	25:BF:89:LYS:HE2	2.29	0.72
18:B3:1056:U:O2	18:B3:2494:G:H1'	1.89	0.72
18:B3:2819:C:H5''	22:BC:101:LEU:HD21	1.70	0.72
18:B3:2826:G:C4	22:BC:124:SER:HB2	2.12	0.72
22:BC:69:ARG:CD	37:BR:89:ASP:CA	2.64	0.72
37:BR:83:LYS:CE	37:BR:83:LYS:HA	2.19	0.72
18:B3:2765:C:OP1	37:BR:87:ARG:NH2	2.23	0.72
26:BG:149:LEU:HD21	26:BG:210:LEU:CG	2.19	0.72
31:BL:26:VAL:HG11	31:BL:122:GLN:CD	2.09	0.72
26:BG:159:ILE:HD13	31:BL:40:ARG:HD2	1.71	0.72
18:B3:1808:C:C5	18:B3:2884:G:H5''	2.25	0.72
18:B3:1708:C:H5'	35:BP:87:ARG:CG	2.19	0.72
29:BJ:16:LEU:HD22	29:BJ:70:VAL:CG1	2.19	0.72
4:AC:64:ARG:HE	4:AC:68:LEU:HD21	1.52	0.72
1:AA:401:C:OP1	5:AD:77:ILE:C	2.21	0.72
5:AD:98:ALA:O	5:AD:105:LEU:HB2	1.89	0.72
6:AE:157:THR:OG1	8:AH:127:PHE:CE1	2.42	0.72
18:B3:1120:U:C4	18:B3:1226:G:P	2.81	0.72
18:B3:2796:U:C5'	27:BH:129:ARG:NH1	2.52	0.72
27:BH:43:VAL:CB	32:BM:126:LEU:CB	2.25	0.72
1:AA:143:A:OP1	1:AA:201:C:C6	2.39	0.72
1:AA:1343:G:O4'	9:AI:138:GLN:CB	2.37	0.72
1:AA:499:A:O2'	1:AA:500:G:C5'	2.31	0.72
4:AC:105:LYS:HG2	4:AC:183:ILE:HG21	1.71	0.72
20:BA:120:VAL:HA	20:BA:124:LEU:HD13	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:33:MET:HE2	41:BV:33:MET:HA	1.70	0.72
18:B3:1441:G:O2'	18:B3:1442:A:H5'	1.89	0.72
1:AA:988:G:O4'	1:AA:1014:A:O5'	2.06	0.72
1:AA:1221:G:H8	17:AS:78:THR:O	1.71	0.72
1:AA:1239:A:N3	7:AG:184:ARG:NH2	2.35	0.72
9:AI:81:ARG:HD2	9:AI:115:LEU:HD21	1.70	0.72
18:B3:2329:C:O2'	18:B3:2330:U:C5	2.41	0.72
19:B4:118:C:C4'	24:BE:68:THR:CG2	2.65	0.72
19:B4:49:G:OP2	24:BE:158:ARG:CG	2.36	0.72
24:BE:103:LEU:HD22	24:BE:103:LEU:O	1.90	0.72
18:B3:1010:C:O4'	24:BE:15:ARG:HD3	1.45	0.72
18:B3:34:C:O2'	23:BD:49:TYR:CA	2.21	0.72
18:B3:449:A:O4'	18:B3:1306:U:C2	2.43	0.72
18:B3:671:A:C3'	23:BD:212:ASN:O	2.37	0.72
34:BO:42:ALA:HB3	34:BO:134:GLY:N	2.02	0.72
47:B9:35:ARG:HD3	47:B9:44:LYS:HG3	1.71	0.72
21:BB:47:ILE:HA	21:BB:58:ALA:HA	1.70	0.72
18:B3:2442:G:P	41:BV:61:HIS:CE1	2.81	0.72
22:BC:104:VAL:HG21	22:BC:198:PHE:CE1	2.24	0.72
18:B3:1056:U:OP1	28:BI:100:ASN:N	2.21	0.72
37:BR:91:VAL:CG2	38:BS:16:GLY:O	2.36	0.72
18:B3:263:U:C4	26:BG:159:ILE:CG1	2.68	0.72
18:B3:1597:A:HO2'	35:BP:94:TRP:HH2	1.32	0.72
18:B3:2738:G:OP2	35:BP:58:SER:O	2.08	0.72
35:BP:94:TRP:CD1	35:BP:98:LEU:HD13	2.24	0.72
18:B3:921:G:C2	41:BV:40:HIS:HB3	2.24	0.72
18:B3:2336:G:O4'	29:BJ:101:PHE:CE1	2.42	0.72
18:B3:2333:G:H2'	29:BJ:114:LYS:HB2	1.69	0.72
18:B3:2220:C:O3'	20:BA:212:PRO:CD	2.37	0.72
5:AD:72:GLU:OE1	5:AD:105:LEU:HD22	1.89	0.72
1:AA:362:G:C4'	12:AL:77:ILE:O	2.36	0.72
12:AL:117:ILE:HG13	12:AL:120:VAL:HG22	1.70	0.72
18:B3:2596:A:C5'	37:BR:73:VAL:CG1	2.63	0.72
18:B3:2579:G:C4'	18:B3:2680:A:O4'	2.36	0.72
27:BH:57:VAL:HG21	32:BM:126:LEU:HD11	0.81	0.72
18:B3:2382:A:C8	46:BZ:10:TYR:CD2	2.78	0.72
1:AA:1343:G:C2'	9:AI:136:ARG:O	2.37	0.72
41:BV:109:GLY:O	41:BV:126:ALA:HB1	1.88	0.72
1:AA:519:C:OP2	12:AL:66:SER:O	2.07	0.72
18:B3:1882:C:P	21:BB:199:ARG:C	2.67	0.72
18:B3:1529:G:H4'	21:BB:69:ARG:HH12	1.51	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:75:LYS:HD2	15:AO:76:SER:N	2.04	0.72
18:B3:2903:C:H5'	18:B3:2903:C:H6	1.55	0.72
1:AA:1299:A:H5'	13:AM:57:ARG:NH2	2.03	0.72
1:AA:1329:A:O5'	13:AM:98:TYR:CE1	2.36	0.72
17:AS:89:MET:CB	17:AS:107:ILE:HD11	2.20	0.72
24:BE:33:ARG:HG3	24:BE:33:ARG:HH11	1.52	0.72
24:BE:34:LYS:HD3	24:BE:34:LYS:O	1.88	0.72
33:BN:13:SER:HB2	33:BN:149:VAL:HG21	1.69	0.72
18:B3:452:G:C8	23:BD:193:TYR:HD2	2.07	0.72
23:BD:221:VAL:HG13	23:BD:222:PRO:N	2.04	0.72
18:B3:1180:C:O2	30:BK:110:ILE:CG1	2.37	0.72
18:B3:1167:G:HO2'	30:BK:111:GLU:HA	1.51	0.72
21:BB:195:TRP:HA	21:BB:195:TRP:CE3	2.23	0.72
25:BF:168:ILE:CD1	25:BF:183:LEU:HD21	2.19	0.72
18:B3:1132:A:C2'	18:B3:2521:A:C4'	0.89	0.72
22:BC:247:LYS:CE	22:BC:247:LYS:H	2.01	0.72
22:BC:316:ILE:HG21	22:BC:320:PHE:CE1	2.24	0.72
22:BC:39:PRO:HD2	22:BC:193:TRP:HB2	1.71	0.72
22:BC:42:LEU:CA	22:BC:180:ILE:HD13	2.15	0.72
26:BG:159:ILE:HG22	26:BG:161:LEU:N	2.04	0.72
26:BG:203:ARG:NE	26:BG:207:GLU:HA	2.04	0.72
26:BG:117:GLU:HG3	26:BG:213:LEU:HD13	1.71	0.72
35:BP:87:ARG:C	35:BP:88:LEU:HD23	2.10	0.72
20:BA:159:LEU:HD12	20:BA:164:CYS:O	1.88	0.72
3:AB:121:ILE:HB	3:AB:143:ILE:HD11	1.71	0.72
1:AA:614:A:OP2	5:AD:104:PHE:CZ	2.43	0.72
27:BH:104:VAL:HG13	27:BH:111:PHE:HD1	1.54	0.72
1:AA:920:U:C4'	1:AA:1080:A:N9	2.51	0.72
18:B3:100:C:H1'	40:BU:24:SER:HB2	0.73	0.72
18:B3:99:A:C5	40:BU:24:SER:HB3	2.24	0.72
40:BU:26:GLN:O	40:BU:29:VAL:HG22	1.88	0.72
1:AA:1344:C:OP1	9:AI:136:ARG:HB2	1.90	0.72
1:AA:123:C:O2'	1:AA:289:G:H1'	1.90	0.72
18:B3:1268:C:P	42:B0:61:LYS:HG2	2.28	0.72
6:AE:126:ALA:O	6:AE:129:ILE:HG22	1.88	0.72
4:AC:114:ILE:CG2	4:AC:141:LEU:HG	2.19	0.72
2:AT:718:LEU:HB3	2:AT:835:TRP:HB3	1.71	0.72
18:B3:1415:G:C8	45:BY:11:HIS:NE2	2.57	0.72
18:B3:2659:U:O2'	33:BN:76:GLY:HA2	1.90	0.72
34:BO:81:VAL:CB	34:BO:140:LEU:HD12	2.19	0.72
18:B3:51:G:C4'	45:BY:20:ARG:CB	2.65	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1168:C:H6	30:BK:114:ARG:HH12	0.79	0.72
18:B3:1875:A:P	21:BB:150:PRO:HG3	2.28	0.72
18:B3:2820:A:C1'	22:BC:89:VAL:CB	2.67	0.72
18:B3:2828:G:O3'	22:BC:130:THR:HG23	1.89	0.72
22:BC:158:ARG:HB3	22:BC:158:ARG:CZ	2.20	0.72
18:B3:2066:C:OP2	22:BC:255:HIS:HB3	1.89	0.72
37:BR:54:LEU:CD2	37:BR:81:GLN:HB2	2.19	0.72
18:B3:921:G:H3'	41:BV:40:HIS:HB2	1.70	0.72
18:B3:1673:U:C1'	39:BT:90:ASN:C	2.35	0.72
18:B3:1673:U:C2'	39:BT:91:LYS:N	2.52	0.72
10:AJ:69:LYS:CB	14:AN:39:ARG:NH2	2.49	0.72
10:AJ:76:SER:OG	14:AN:27:THR:HG21	1.83	0.72
10:AJ:69:LYS:CE	14:AN:39:ARG:NH2	2.33	0.72
1:AA:599:C:O3'	8:AH:121:SER:OG	2.04	0.72
1:AA:402:G:N9	1:AA:621:A:C2	2.58	0.72
1:AA:364:A:OP1	12:AL:50:LYS:CE	2.36	0.72
1:AA:32:A:H2	12:AL:47:SER:H	1.36	0.72
18:B3:2559:C:C4'	18:B3:2799:A:H4'	2.19	0.72
18:B3:1116:U:O2'	18:B3:1118:A:H2	1.70	0.72
27:BH:129:ARG:HG3	27:BH:153:ASP:O	1.89	0.72
27:BH:64:HIS:ND1	32:BM:127:ARG:CB	2.53	0.72
32:BM:34:VAL:HG11	32:BM:79:PHE:CE2	2.25	0.72
35:BP:13:VAL:CG2	35:BP:41:ARG:HG3	2.19	0.72
43:BW:10:GLU:HG2	43:BW:69:ARG:HG3	1.70	0.72
46:BZ:59:LYS:N	46:BZ:59:LYS:HE3	2.04	0.72
18:B3:82:C:P	40:BU:75:ARG:CB	2.77	0.72
1:AA:13:U:O3'	1:AA:914:A:H3'	1.89	0.72
1:AA:1504:G:H8	1:AA:1508:G:H5'	1.53	0.72
1:AA:121:C:O2	1:AA:126:G:O6	2.07	0.72
15:AO:91:ILE:HG13	15:AO:92:LYS:HD2	1.71	0.72
6:AE:127:GLY:O	6:AE:130:ILE:HG22	1.90	0.72
32:BM:25:GLN:CG	32:BM:30:GLN:HB2	2.18	0.72
12:AL:101:GLU:HB2	12:AL:132:LEU:HD23	1.71	0.72
18:B3:1669:A:H2'	18:B3:1670:G:C8	2.25	0.72
13:AM:117:LYS:HD3	13:AM:128:PHE:CE1	2.25	0.72
17:AS:56:PHE:O	17:AS:60:LEU:HD13	1.89	0.72
45:BY:9:LYS:HE2	45:BY:10:ARG:CB	2.19	0.72
1:AA:1147:C:HO2'	9:AI:9:PHE:HE1	1.36	0.72
10:AJ:25:THR:HG22	10:AJ:115:GLU:O	1.89	0.72
24:BE:16:PHE:CB	36:BQ:19:PHE:CZ	2.60	0.72
24:BE:208:MET:CG	24:BE:211:LEU:HD22	2.20	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:181:LEU:CB	23:BD:202:ARG:HA	2.20	0.72
18:B3:1181:A:C4	30:BK:106:LEU:CD1	2.68	0.72
47:B9:28:LEU:HD22	47:B9:29:GLU:N	2.05	0.72
18:B3:2818:A:C4'	22:BC:99:ARG:NH1	2.53	0.72
22:BC:217:ILE:HG22	22:BC:275:THR:HA	1.70	0.72
28:BI:59:GLN:CG	28:BI:126:ALA:HB3	2.19	0.72
28:BI:53:VAL:HG21	28:BI:164:LYS:HB3	1.70	0.72
26:BG:121:LYS:HE2	26:BG:210:LEU:HB2	1.72	0.72
26:BG:203:ARG:CD	26:BG:207:GLU:HA	2.19	0.72
31:BL:186:ARG:NH1	31:BL:191:LYS:HG2	2.04	0.72
18:B3:1814:G:C3'	18:B3:2733:U:C6	2.73	0.72
18:B3:1816:C:H5''	18:B3:2747:C:P	2.27	0.72
38:BS:47:ARG:HB3	38:BS:47:ARG:CZ	2.19	0.72
18:B3:2346:C:O2'	29:BJ:66:VAL:C	2.07	0.72
29:BJ:25:SER:OG	29:BJ:32:ALA:HB3	1.90	0.72
20:BA:153:SER:N	20:BA:158:GLN:CD	2.41	0.72
39:BT:65:PRO:HA	39:BT:83:PHE:HB3	1.71	0.72
18:B3:1943:C:H5''	21:BB:218:ILE:HG13	1.71	0.72
1:AA:401:C:H2'	1:AA:621:A:C4	2.11	0.72
1:AA:25:C:C2'	12:AL:109:ARG:NH1	2.53	0.72
2:AT:141:THR:HG21	2:AT:483:PHE:HB3	1.66	0.72
27:BH:63:LYS:NZ	32:BM:130:PRO:CB	2.31	0.72
32:BM:15:VAL:CG1	32:BM:40:LEU:HG	2.18	0.72
1:AA:677:U:C4	11:AK:123:ASP:CA	2.72	0.72
35:BP:18:LYS:HA	35:BP:18:LYS:NZ	2.05	0.72
35:BP:5:THR:O	35:BP:8:ARG:HB2	1.90	0.72
40:BU:40:ARG:NH2	40:BU:41:ALA:HB3	2.03	0.72
40:BU:53:ASP:HB3	40:BU:110:HIS:HB2	1.72	0.72
1:AA:404:U:O4	5:AD:70:LEU:CD1	2.37	0.72
18:B3:1687:C:H1'	45:BY:8:GLY:O	1.90	0.72
1:AA:118:U:C1'	1:AA:122:G:C1'	2.65	0.72
18:B3:1137:G:C4	18:B3:2785:C:H5	2.08	0.72
32:BM:7:VAL:O	32:BM:115:LYS:HB3	1.89	0.72
36:BQ:39:ILE:CG1	36:BQ:99:SER:HB3	2.19	0.72
12:AL:101:GLU:N	12:AL:132:LEU:HD23	2.04	0.72
40:BU:89:LYS:HD3	40:BU:93:ALA:N	2.05	0.72
18:B3:1352:A:O4'	23:BD:102:THR:CG2	2.32	0.72
23:BD:235:LEU:HD12	23:BD:236:GLN:N	2.04	0.72
18:B3:763:C:C2'	23:BD:86:GLN:HG2	2.19	0.72
18:B3:52:A:C5'	45:BY:20:ARG:HD2	2.20	0.72
47:B9:29:GLU:HB2	47:B9:32:GLN:NE2	2.05	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:35:ARG:HB2	47:B9:44:LYS:HD3	1.72	0.72
21:BB:190:LEU:HD23	21:BB:190:LEU:H	1.53	0.72
19:B4:97:U:N3	25:BF:220:LYS:CE	2.52	0.72
18:B3:1285:U:O3'	25:BF:155:ILE:CG1	2.37	0.72
25:BF:115:PHE:HB3	25:BF:194:PHE:HE2	1.51	0.72
1:AA:190(C):C:N4	16:AQ:111:SER:HB2	2.05	0.72
22:BC:160:LEU:O	22:BC:161:VAL:HG22	1.90	0.72
22:BC:169:PRO:HB2	22:BC:313:TYR:HB3	1.70	0.72
22:BC:112:GLU:HB2	22:BC:173:LYS:HB2	1.69	0.72
22:BC:92:VAL:HG13	22:BC:153:TYR:HB2	1.72	0.72
22:BC:359:ASP:CB	38:BS:16:GLY:C	2.35	0.72
26:BG:203:ARG:CD	26:BG:210:LEU:HB3	2.18	0.72
31:BL:107:ARG:HA	31:BL:107:ARG:NH1	2.03	0.72
31:BL:141:ILE:HG12	31:BL:147:TYR:CZ	2.24	0.72
18:B3:2337:G:O2'	29:BJ:127:TYR:CA	2.38	0.72
10:AJ:73:GLY:N	14:AN:38:CYS:CA	2.52	0.72
10:AJ:72:ASN:OD1	14:AN:26:HIS:CA	2.37	0.72
1:AA:554:C:H5'	12:AL:45:GLY:H	1.55	0.72
1:AA:1348:U:H5''	9:AI:134:ARG:HG2	1.70	0.72
27:BH:117:PHE:HE2	27:BH:120:ASP:HB2	1.53	0.72
32:BM:10:GLY:O	32:BM:36:ARG:HB3	1.89	0.72
32:BM:60:ALA:HB1	32:BM:71:HIS:CD2	2.24	0.72
43:BW:59:TRP:HH2	43:BW:66:VAL:CG1	2.03	0.72
40:BU:48:LEU:HD12	40:BU:106:ILE:CD1	2.19	0.72
40:BU:45:ILE:HD12	40:BU:47:ALA:N	2.04	0.72
1:AA:13:U:O3'	1:AA:914:A:C3'	2.36	0.72
1:AA:546:G:C4'	1:AA:549:C:H5'	2.19	0.72
1:AA:124:G:OP1	1:AA:311:C:O2	2.07	0.72
18:B3:1153:C:H3'	18:B3:1155:G:C8	2.24	0.72
42:B0:66:LEU:HD21	42:B0:70:GLY:CA	2.19	0.72
18:B3:1739:G:H4'	18:B3:2726:U:N3	1.94	0.72
20:BA:53:LEU:HD13	20:BA:186:SER:HA	1.70	0.72
4:AC:167:ILE:HD11	4:AC:188:MET:HG2	1.71	0.72
23:BD:155:LEU:O	23:BD:155:LEU:HD13	1.89	0.72
4:AC:74:LYS:O	4:AC:77:LYS:HD3	1.90	0.72
1:AA:1314:C:N4	17:AS:49:MET:N	2.36	0.72
1:AA:978:A:HO2'	17:AS:81:ARG:CG	2.02	0.72
1:AA:1180:A:P	9:AI:114:THR:HG21	2.28	0.72
18:B3:1018:A:O2'	36:BQ:60:LYS:CG	2.38	0.72
19:B4:34:A:N3	24:BE:185:PHE:HD1	1.87	0.72
33:BN:122:PRO:O	33:BN:142:PRO:HG2	1.90	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:96:ILE:HD13	42:B0:109:LEU:CD1	2.18	0.72
18:B3:1168:C:O4'	30:BK:110:ILE:CG2	2.38	0.72
18:B3:107:U:O2	44:BX:56:THR:HG21	1.90	0.72
18:B3:2763:G:P	37:BR:14:SER:HB3	2.29	0.72
22:BC:331:ARG:HB2	22:BC:332:LYS:HZ3	1.54	0.72
22:BC:91:TYR:HB3	22:BC:99:ARG:HH21	1.55	0.72
28:BI:102:MET:HB3	28:BI:113:GLN:HG3	1.71	0.72
37:BR:77:ILE:O	37:BR:77:ILE:HD12	1.89	0.72
26:BG:112:ALA:O	26:BG:115:VAL:HG12	1.89	0.72
31:BL:16:ASP:O	31:BL:19:ARG:HG2	1.90	0.72
18:B3:1708:C:OP1	35:BP:81:LYS:N	2.22	0.72
18:B3:1805:G:C5	18:B3:2883:A:C2	2.77	0.72
18:B3:2338:G:O5'	29:BJ:126:PHE:CB	2.37	0.72
20:BA:50:SER:OG	20:BA:154:THR:CG2	2.34	0.72
39:BT:109:VAL:CG2	39:BT:123:VAL:HG22	2.20	0.72
10:AJ:73:GLY:N	14:AN:25:SER:O	2.23	0.72
6:AE:138:ILE:HD12	6:AE:217:ILE:CD1	2.20	0.72
6:AE:155:THR:HB	8:AH:96:ARG:HA	1.71	0.72
1:AA:25:C:C4'	12:AL:109:ARG:CD	2.66	0.72
1:AA:99:C:C1'	1:AA:101:A:C6	2.73	0.72
18:B3:1993:C:H1'	37:BR:72:LYS:CD	2.19	0.72
37:BR:67:PRO:CB	37:BR:69:LEU:HD23	2.19	0.72
18:B3:1993:C:H1'	37:BR:72:LYS:HG2	0.73	0.72
27:BH:43:VAL:HG12	32:BM:126:LEU:CB	2.11	0.72
18:B3:1687:C:C1'	45:BY:8:GLY:O	2.38	0.72
41:BV:98:ALA:HA	41:BV:125:LYS:CE	2.18	0.72
41:BV:91:LYS:HD2	41:BV:92:SER:N	2.05	0.72
1:AA:579:G:O3'	15:AO:112:PHE:HZ	1.73	0.72
1:AA:111:G:H1'	1:AA:389:A:H4'	1.70	0.72
11:AK:40:ARG:HB3	11:AK:66:VAL:HG23	1.72	0.72
16:AQ:93:ILE:HD11	16:AQ:96:TYR:CB	2.10	0.72
18:B3:375:G:H22	18:B3:411:A:H8	0.74	0.72
24:BE:87:GLY:CA	24:BE:222:LEU:HD23	2.20	0.72
30:BK:22:VAL:HG23	30:BK:43:GLY:CA	2.19	0.72
40:BU:11:ASP:O	40:BU:12:ARG:HG3	1.89	0.72
18:B3:2851:G:O2'	18:B3:2852:A:H5'	1.90	0.72
1:AA:1320:C:O2'	13:AM:122:HIS:CD2	2.43	0.72
1:AA:977:A:H2'	1:AA:978:A:H5''	1.72	0.72
1:AA:1309:G:O2'	13:AM:112:ASP:CG	2.28	0.72
1:AA:1321:C:O4'	17:AS:118:GLU:C	2.28	0.72
24:BE:107:ARG:HB2	24:BE:226:TYR:HE1	1.55	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:318:G:H21	1:AA:1433:A:N6	1.87	0.72
18:B3:1352:A:O4'	23:BD:50:ALA:HA	1.90	0.72
18:B3:1306:U:H6	23:BD:194:ARG:HH22	1.34	0.72
23:BD:206:VAL:O	23:BD:207:VAL:HG12	1.90	0.72
18:B3:672:G:OP1	23:BD:214:ILE:HD13	1.90	0.72
23:BD:208:TYR:CZ	23:BD:218:LEU:HD12	2.24	0.72
18:B3:1348:A:H4'	23:BD:241:ALA:HB2	1.72	0.72
34:BO:122:ILE:HD12	34:BO:124:LEU:N	2.03	0.72
18:B3:1182:U:C5'	30:BK:104:ILE:H	2.01	0.72
47:B9:29:GLU:HB3	47:B9:31:GLN:CA	2.20	0.72
18:B3:1872:C:C2	21:BB:23:GLN:O	2.43	0.72
18:B3:693:A:O3'	41:BV:59:TYR:CE2	2.43	0.72
18:B3:1099:G:H3'	19:B4:87:U:N3	1.98	0.72
18:B3:1098:A:H5''	25:BF:217:ARG:HB2	1.72	0.72
1:AA:190(E):U:O3'	16:AQ:109:HIS:HE1	1.69	0.72
18:B3:2653:A:C4'	22:BC:257:ALA:N	2.52	0.72
18:B3:2716:G:O2'	22:BC:327:ILE:O	2.08	0.72
28:BI:49:CYS:CA	28:BI:139:ARG:HG3	2.20	0.72
37:BR:54:LEU:HD11	37:BR:80:ARG:C	2.10	0.72
18:B3:401:C:C4'	31:BL:94:GLN:CA	2.66	0.72
26:BG:139:VAL:O	26:BG:142:ILE:HG13	1.89	0.72
26:BG:115:VAL:HG23	26:BG:214:VAL:CG1	2.19	0.72
18:B3:1761:U:O2'	35:BP:80:ARG:CZ	2.38	0.72
20:BA:51:GLY:N	20:BA:54:LYS:CB	2.52	0.72
18:B3:1943:C:H4'	21:BB:218:ILE:HD12	1.67	0.72
1:AA:6:G:H4'	1:AA:298:A:C4'	2.14	0.72
3:AB:52:THR:HG21	3:AB:161:CYS:SG	2.30	0.72
37:BR:76:ALA:HB2	37:BR:102:ILE:HA	1.72	0.72
37:BR:22:ILE:HG21	37:BR:33:ASN:HD22	1.54	0.72
18:B3:2557:U:H2'	18:B3:2800:A:C8	2.25	0.72
27:BH:12:VAL:N	27:BH:52:LEU:HD22	2.04	0.72
18:B3:2781:U:C1'	27:BH:155:SER:HB2	2.19	0.72
32:BM:34:VAL:HG11	32:BM:79:PHE:HE2	1.54	0.72
43:BW:9:ARG:NH2	43:BW:72:LEU:HD11	2.02	0.72
1:AA:1074:G:H4'	3:AB:112:ARG:HH21	1.53	0.72
1:AA:21:G:H4'	1:AA:885:G:C5'	2.13	0.72
1:AA:568:G:OP1	6:AE:163:SER:OG	2.05	0.72
18:B3:2434:A:P	46:BZ:35:PHE:HB3	2.29	0.72
11:AK:41:VAL:CG2	11:AK:44:GLY:H	2.02	0.72
1:AA:1065:U:H4'	1:AA:1066:C:O5'	1.89	0.72
18:B3:1810:C:N1	18:B3:2753:G:H1'	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:154:LYS:H	21:BB:154:LYS:HE3	1.54	0.72
1:AA:1224:G:OP2	13:AM:139:LYS:HD3	1.89	0.71
18:B3:1694:G:H21	45:BY:5:PRO:CG	0.70	0.71
9:AI:66:VAL:HG21	9:AI:80:ILE:CD1	2.17	0.71
9:AI:81:ARG:HG2	9:AI:115:LEU:HD22	1.71	0.71
19:B4:49:G:P	24:BE:158:ARG:HA	2.29	0.71
19:B4:5:G:C2	24:BE:71:GLY:O	2.43	0.71
33:BN:106:LEU:HD23	33:BN:111:LEU:CD2	2.20	0.71
18:B3:677:C:C4'	23:BD:256:LYS:CG	2.68	0.71
23:BD:150:VAL:HB	23:BD:251:GLU:CG	2.19	0.71
18:B3:1305:C:C2	23:BD:194:ARG:NH2	2.51	0.71
23:BD:221:VAL:HG22	23:BD:222:PRO:CD	2.20	0.71
18:B3:1350:U:C5	23:BD:46:ARG:NH2	2.55	0.71
23:BD:61:ALA:HA	23:BD:76:VAL:O	1.90	0.71
21:BB:97:VAL:HA	21:BB:165:ILE:CG2	2.20	0.71
18:B3:1067:A:H5''	25:BF:96:PRO:CG	2.17	0.71
18:B3:1286:A:OP2	25:BF:155:ILE:HG23	1.89	0.71
25:BF:111:ASN:O	25:BF:206:LEU:HB3	1.90	0.71
22:BC:13:LEU:HD11	22:BC:262:SER:OG	1.88	0.71
37:BR:40:LYS:CD	37:BR:57:MET:HB3	2.19	0.71
22:BC:70:GLU:N	37:BR:88:ARG:HG2	1.76	0.71
18:B3:1807:U:H5'	18:B3:2884:G:C4	2.24	0.71
18:B3:1809:G:N2	18:B3:2732:U:C5'	2.53	0.71
18:B3:2866:U:H1'	18:B3:2891:A:C4	2.25	0.71
18:B3:1708:C:OP1	35:BP:87:ARG:HD3	1.89	0.71
29:BJ:13:ILE:HG23	29:BJ:162:PHE:HE2	1.55	0.71
18:B3:2165:G:C2'	20:BA:33:GLU:HG3	2.20	0.71
3:AB:145:LEU:HD11	3:AB:161:CYS:HB2	1.73	0.71
41:BV:20:ARG:HH11	41:BV:20:ARG:HA	1.54	0.71
18:B3:1993:C:H5''	37:BR:70:ARG:HH22	1.54	0.71
9:AI:13:LYS:CE	9:AI:75:SER:HA	2.18	0.71
32:BM:52:LYS:HA	32:BM:58:ARG:HE	1.54	0.71
35:BP:23:LEU:HD23	35:BP:24:ASP:H	1.55	0.71
1:AA:1314:C:C4	17:AS:49:MET:CA	2.57	0.71
1:AA:1279:A:H5''	1:AA:1280:A:OP1	1.88	0.71
18:B3:2369:A:P	24:BE:31:TYR:CZ	2.70	0.71
36:BQ:34:TYR:CE2	36:BQ:93:VAL:HG12	2.24	0.71
33:BN:107:ASP:CB	33:BN:110:LYS:HD3	2.20	0.71
18:B3:553:G:OP2	42:B0:71:HIS:HD2	1.67	0.71
23:BD:194:ARG:NH2	23:BD:195:ASN:HB2	2.03	0.71
23:BD:207:VAL:CG2	23:BD:236:GLN:HG2	2.19	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:130:ARG:HG2	34:BO:131:ALA:O	1.90	0.71
18:B3:765:G:C5'	23:BD:84:SER:CB	2.68	0.71
18:B3:120:A:O2'	45:BY:17:LEU:HD11	1.90	0.71
18:B3:1652:C:H5'	21:BB:174:VAL:HG11	1.71	0.71
21:BB:139:ASN:HB2	21:BB:140:PRO:HD3	1.71	0.71
21:BB:138:HIS:HB2	21:BB:141:ASP:CB	2.19	0.71
21:BB:226:ARG:HH11	21:BB:227:GLY:HA3	1.55	0.71
25:BF:146:LEU:HD22	25:BF:239:VAL:CG2	2.20	0.71
25:BF:167:ILE:HB	25:BF:179:SER:CB	2.06	0.71
1:AA:190(D):U:N3	16:AQ:111:SER:HB2	2.04	0.71
1:AA:190(E):U:N3	16:AQ:131:SER:CA	2.53	0.71
18:B3:107:U:H5'	44:BX:57:VAL:C	2.10	0.71
44:BX:10:ARG:HB3	44:BX:10:ARG:NH1	2.05	0.71
18:B3:57:C:C1'	44:BX:35:LYS:HE3	2.16	0.71
18:B3:1134:G:O4'	18:B3:1229:C:P	2.48	0.71
18:B3:2819:C:H2'	22:BC:100:SER:CA	2.20	0.71
18:B3:2672:C:C5'	22:BC:31:PHE:HZ	2.03	0.71
28:BI:69:ARG:HH11	28:BI:69:ARG:HG3	1.52	0.71
26:BG:113:ALA:H	26:BG:119:LYS:HA	1.53	0.71
31:BL:168:LYS:HD2	31:BL:169:LYS:N	2.05	0.71
35:BP:80:ARG:HG2	35:BP:87:ARG:CD	2.20	0.71
7:AG:185:ASN:O	7:AG:186:ILE:HG22	1.90	0.71
18:B3:1507:C:H4'	39:BT:74:LYS:CD	2.05	0.71
10:AJ:72:ASN:ND2	14:AN:27:THR:C	2.42	0.71
1:AA:363:A:O2'	12:AL:49:ALA:CA	2.37	0.71
37:BR:22:ILE:CG2	37:BR:33:ASN:HD22	2.03	0.71
18:B3:1993:C:N1	37:BR:72:LYS:HG2	1.92	0.71
27:BH:173:ARG:HB2	27:BH:173:ARG:NH1	2.05	0.71
32:BM:42:ILE:HD13	32:BM:136:THR:OG1	1.90	0.71
1:AA:777:A:O2'	11:AK:125:THR:O	2.08	0.71
35:BP:24:ASP:HB3	35:BP:25:PRO:C	2.10	0.71
18:B3:81:G:O3'	40:BU:75:ARG:CB	2.37	0.71
40:BU:48:LEU:HD13	40:BU:109:LEU:HD12	1.73	0.71
6:AE:204:ARG:HB3	6:AE:207:GLU:HB3	1.71	0.71
6:AE:205:THR:OG1	6:AE:206:LEU:HD22	1.91	0.71
41:BV:78:TRP:HD1	41:BV:117:ILE:HD11	1.54	0.71
1:AA:668:G:O2'	15:AO:104:ASN:CG	2.28	0.71
1:AA:754:C:O4'	15:AO:127:TYR:CZ	2.43	0.71
1:AA:688:G:H5'	11:AK:49:ALA:HB3	1.72	0.71
1:AA:706:A:H5'	11:AK:23:ASN:ND2	2.02	0.71
32:BM:84:ARG:NE	32:BM:87:VAL:HG21	2.05	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:93:ARG:CZ	32:BM:94:GLY:HA2	2.20	0.71
32:BM:4:PRO:HB3	32:BM:7:VAL:HG23	1.71	0.71
7:AG:163:PRO:O	7:AG:166:ARG:HG3	1.90	0.71
18:B3:1127:C:H1'	18:B3:2491:G:O2'	1.88	0.71
41:BV:33:MET:HA	41:BV:33:MET:CE	2.19	0.71
1:AA:748:C:H1'	1:AA:749:C:H5	1.53	0.71
2:AT:799:ASP:OD1	2:AT:800:HIS:HD2	1.72	0.71
2:AT:763:THR:N	2:AT:764:PRO:HD3	2.05	0.71
13:AM:62:THR:HG22	13:AM:64:GLU:H	1.55	0.71
17:AS:85:ILE:HG23	17:AS:116:LEU:HG	1.71	0.71
9:AI:54:VAL:HG12	9:AI:88:LEU:CD2	2.20	0.71
19:B4:51:A:C4	24:BE:58:LYS:CB	0.76	0.71
1:AA:318:G:C1'	1:AA:1468:A:H4'	2.20	0.71
18:B3:721:A:C2	34:BO:141:ARG:CG	2.73	0.71
18:B3:1360:C:H1'	23:BD:88:ALA:HB3	1.72	0.71
18:B3:2275:G:H5''	31:BL:78:ALA:HA	1.71	0.71
18:B3:1192:A:N6	30:BK:108:GLU:OE2	2.06	0.71
21:BB:115:VAL:HG23	21:BB:125:LEU:CD1	2.13	0.71
18:B3:107:U:H6	44:BX:60:GLU:C	1.91	0.71
22:BC:92:VAL:N	22:BC:101:LEU:HD21	2.04	0.71
22:BC:109:LEU:HD13	22:BC:110:SER:O	1.90	0.71
22:BC:121:TRP:CH2	22:BC:123:LYS:HD3	2.25	0.71
18:B3:2847:G:O3'	22:BC:173:LYS:HE2	1.90	0.71
22:BC:280:LYS:O	22:BC:324:LYS:HE2	1.89	0.71
18:B3:2717:C:C5'	22:BC:327:ILE:O	2.33	0.71
22:BC:89:VAL:HG23	22:BC:91:TYR:CE2	2.25	0.71
28:BI:104:SER:N	28:BI:112:GLN:HB2	2.05	0.71
28:BI:52:LEU:CD1	28:BI:137:SER:HA	2.20	0.71
18:B3:2263:G:H5''	31:BL:70:ARG:NE	2.02	0.71
26:BG:115:VAL:HB	26:BG:210:LEU:CD2	2.19	0.71
31:BL:163:LEU:HD12	31:BL:165:ALA:H	1.55	0.71
18:B3:898:G:H5''	41:BV:25:ARG:NE	2.05	0.71
29:BJ:67:HIS:CD2	29:BJ:68:VAL:HG23	2.24	0.71
14:AN:21:ARG:CB	14:AN:35:LEU:HD23	2.20	0.71
14:AN:22:VAL:HG13	14:AN:23:CYS:H	1.54	0.71
1:AA:65:U:H2'	1:AA:383:A:C2	2.26	0.71
1:AA:65:U:C1'	1:AA:96:G:OP2	2.27	0.71
1:AA:1348:U:C3'	9:AI:134:ARG:HB2	2.21	0.71
18:B3:2579:G:P	18:B3:2680:A:H5'	2.31	0.71
27:BH:162:GLN:OE1	27:BH:181:VAL:HG12	1.89	0.71
32:BM:13:HIS:CE1	32:BM:118:VAL:HG12	2.25	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1231:A:H2'	18:B3:2553:A:C6	2.23	0.71
40:BU:35:LEU:CB	40:BU:39:LEU:HD23	2.20	0.71
40:BU:72:SER:HB3	40:BU:80:VAL:HG22	1.73	0.71
1:AA:293:G:C3'	1:AA:610:G:H1'	2.19	0.71
15:AO:120:ARG:HB2	15:AO:120:ARG:NH1	2.05	0.71
23:BD:9:SER:CB	23:BD:15:THR:HG21	2.20	0.71
21:BB:31:LEU:HD23	21:BB:36:ARG:HB3	1.72	0.71
23:BD:155:LEU:CD2	23:BD:158:ILE:HD12	2.19	0.71
1:AA:1220:G:OP2	17:AS:80:MET:CB	2.38	0.71
1:AA:990:C:C6	1:AA:1016:A:C4	2.78	0.71
17:AS:56:PHE:HB3	17:AS:58:LYS:HE2	1.71	0.71
1:AA:1148:U:C5'	9:AI:9:PHE:HZ	1.98	0.71
24:BE:64:ILE:HG21	24:BE:109:THR:CG2	2.20	0.71
19:B4:47:A:H4'	24:BE:154:THR:N	2.03	0.71
24:BE:33:ARG:HA	24:BE:36:LEU:CG	2.18	0.71
24:BE:16:PHE:CD1	36:BQ:19:PHE:HE1	2.05	0.71
33:BN:111:LEU:HD11	33:BN:151:GLU:OE2	1.90	0.71
18:B3:1343:C:H2'	23:BD:188:ALA:HA	0.72	0.71
18:B3:1167:G:C4	30:BK:110:ILE:HB	2.25	0.71
18:B3:820:G:O6	21:BB:181:ALA:CB	2.38	0.71
21:BB:67:LYS:HG3	21:BB:73:GLU:N	2.05	0.71
18:B3:2526:C:H4'	18:B3:2605:G:H5''	0.72	0.71
18:B3:1056:U:C2	18:B3:2494:G:H1'	2.25	0.71
22:BC:225:PHE:HA	22:BC:267:GLY:O	1.90	0.71
22:BC:46:LEU:HD13	22:BC:338:ARG:HG3	1.71	0.71
28:BI:47:PRO:HG2	28:BI:141:LYS:CA	2.17	0.71
28:BI:55:ASN:ND2	28:BI:164:LYS:HB2	2.05	0.71
18:B3:1812:G:C1'	18:B3:2732:U:O3'	2.34	0.71
29:BJ:91:ARG:CD	29:BJ:159:VAL:HG21	2.21	0.71
8:AH:39:VAL:CG1	8:AH:102:ILE:HD12	2.14	0.71
1:AA:69:G:C2'	1:AA:171:A:C5	2.72	0.71
2:AT:138:GLN:HE21	18:B3:2698:G:H5''	1.11	0.71
37:BR:25:CYS:HB2	37:BR:32:ARG:NH2	2.06	0.71
27:BH:63:LYS:HD2	32:BM:129:LYS:HB3	0.75	0.71
1:AA:678:U:C6	11:AK:125:THR:O	2.38	0.71
35:BP:48:THR:HG23	35:BP:49:ILE:CG1	2.10	0.71
18:B3:1381:A:H8	43:BW:25:LYS:HZ3	1.36	0.71
18:B3:2438:G:O4'	46:BZ:14:LYS:NZ	2.23	0.71
40:BU:31:LEU:HA	40:BU:101:PRO:HG2	1.72	0.71
1:AA:1343:G:O4'	9:AI:138:GLN:HA	1.76	0.71
41:BV:120:VAL:HB	41:BV:121:PRO:C	2.10	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:924:C:O4'	1:AA:1398:A:C6	2.44	0.71
32:BM:4:PRO:HA	32:BM:32:ILE:CG1	2.21	0.71
16:AQ:76:SER:HB3	16:AQ:84:VAL:CG1	2.20	0.71
3:AB:83:ARG:O	3:AB:86:LEU:HG	1.89	0.71
18:B3:2103:A:H62	18:B3:2538:A:H2	1.37	0.71
1:AA:1302:U:C5	13:AM:47:CYS:HB3	2.25	0.71
13:AM:101:LEU:N	13:AM:105:VAL:HG21	2.03	0.71
42:B0:27:ARG:HH12	42:B0:28:VAL:HG12	1.55	0.71
18:B3:2061:C:C4'	42:B0:24:ARG:HD2	2.21	0.71
19:B4:47:A:C3'	24:BE:160:PHE:CE2	2.71	0.71
18:B3:500:G:H21	33:BN:96:ASN:HD21	0.71	0.71
33:BN:23:VAL:HG22	33:BN:24:SER:H	1.56	0.71
33:BN:88:LYS:HD2	33:BN:89:PHE:N	2.05	0.71
18:B3:1335:C:C5'	42:B0:96:ILE:O	2.39	0.71
23:BD:191:GLY:CA	23:BD:194:ARG:HH11	2.04	0.71
23:BD:64:TRP:CZ3	23:BD:67:GLY:HA3	2.25	0.71
47:B9:38:CYS:HB3	47:B9:41:CYS:SG	2.30	0.71
1:AA:132:C:O2	1:AA:263:A:C2	2.43	0.71
18:B3:107:U:Cl'	44:BX:56:THR:CG2	2.62	0.71
44:BX:40:SER:OG	44:BX:43:LYS:HD2	1.91	0.71
18:B3:2283:G:C5'	28:BI:114:GLY:CA	1.94	0.71
18:B3:1784:U:C2	35:BP:77:TYR:CE2	2.77	0.71
18:B3:2346:C:H4'	29:BJ:46:GLN:O	1.91	0.71
29:BJ:32:ALA:H	29:BJ:34:LYS:HD2	1.55	0.71
20:BA:54:LYS:CG	20:BA:156:LYS:CG	2.65	0.71
20:BA:55:LEU:HD23	20:BA:167:VAL:HG22	1.53	0.71
18:B3:1446:U:OP1	39:BT:70:THR:N	2.22	0.71
5:AD:101:VAL:HB	5:AD:191:ALA:N	2.05	0.71
18:B3:1744:G:O2'	37:BR:21:ALA:CA	2.33	0.71
27:BH:12:VAL:HG11	27:BH:79:ILE:HD13	1.72	0.71
27:BH:46:THR:HA	27:BH:55:VAL:CG2	2.20	0.71
18:B3:1384:C:O2'	43:BW:50:LEU:CD1	2.38	0.71
1:AA:546:G:H4'	1:AA:549:C:H5'	1.71	0.71
41:BV:74:LEU:HD21	41:BV:137:ILE:HD11	1.72	0.71
1:AA:1504:G:H4'	1:AA:1506:U:C2'	2.21	0.71
1:AA:238:G:H8	1:AA:240:C:OP2	1.73	0.71
18:B3:390:G:P	46:BZ:47:SER:CB	2.78	0.71
18:B3:1154:A:C8	18:B3:1155:G:O2'	2.43	0.71
4:AC:143:ALA:HB1	4:AC:178:GLN:HG2	1.71	0.71
26:BG:145:LYS:HD2	26:BG:145:LYS:O	1.90	0.71
2:AT:284:LEU:HD13	2:AT:324:MET:HE3	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:113:ARG:HD2	11:AK:115:GLU:OE2	1.91	0.71
1:AA:1222:G:OP1	17:AS:120:SER:OG	2.06	0.71
18:B3:618:G:C8	42:B0:46:PHE:C	2.64	0.71
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.24	0.71
1:AA:1177:G:H4'	9:AI:105:LYS:HE3	1.72	0.71
1:AA:1162:C:C2	9:AI:108:PHE:HE2	2.09	0.71
36:BQ:36:VAL:O	36:BQ:64:VAL:HG13	1.90	0.71
18:B3:1308:A:H62	23:BD:201:ARG:CZ	2.03	0.71
18:B3:664:U:P	23:BD:115:ASN:CA	2.63	0.71
23:BD:149:LEU:HB3	23:BD:247:VAL:O	1.91	0.71
23:BD:191:GLY:HA2	23:BD:194:ARG:CG	2.20	0.71
30:BK:53:PHE:CZ	30:BK:86:LYS:HD2	2.25	0.71
47:B9:20:SER:O	47:B9:22:ARG:HD3	1.90	0.71
21:BB:124:ALA:C	21:BB:125:LEU:HD12	2.10	0.71
18:B3:68:U:O5'	44:BX:55:LEU:CD2	2.06	0.71
22:BC:162:HIS:HA	22:BC:177:LEU:HG	1.72	0.71
22:BC:214:ILE:CG2	22:BC:339:LYS:H	2.04	0.71
28:BI:51:HIS:HE1	28:BI:149:VAL:HG22	1.54	0.71
18:B3:2866:U:H4'	18:B3:2867:G:H5'	1.71	0.71
7:AG:116:THR:HG21	7:AG:193:LEU:HB2	1.70	0.71
18:B3:919:U:H3	41:BV:41:ARG:HB2	1.55	0.71
10:AJ:75:GLY:O	10:AJ:78:THR:HG22	1.90	0.71
5:AD:129:ILE:CG2	5:AD:144:PRO:HG3	2.21	0.71
27:BH:161:LEU:HA	27:BH:164:ILE:CG1	2.19	0.71
18:B3:2779:G:C2'	27:BH:163:GLN:HB3	2.20	0.71
32:BM:12:GLY:C	32:BM:123:LEU:HD12	2.10	0.71
1:AA:143:A:OP1	1:AA:201:C:C4	2.40	0.71
46:BZ:62:LYS:HD3	46:BZ:64:THR:N	2.06	0.71
18:B3:79:G:C5'	40:BU:28:ARG:CB	2.49	0.71
18:B3:81:G:C2'	40:BU:75:ARG:CG	2.66	0.71
1:AA:666:G:C2	15:AO:109:ASP:OD2	2.41	0.71
15:AO:82:GLU:CA	15:AO:85:GLU:HB2	2.21	0.71
18:B3:1467:C:P	31:BL:33:ASN:OD1	2.48	0.71
6:AE:210:LEU:HD12	6:AE:211:LYS:N	2.05	0.71
34:BO:100:THR:HB	34:BO:119:GLY:CA	2.21	0.71
1:AA:1221:G:O2'	17:AS:102:PHE:HA	1.90	0.71
1:AA:1302:U:C2'	13:AM:54:LEU:HD21	2.19	0.71
1:AA:1130:A:H4'	9:AI:65:ARG:NH2	2.06	0.71
19:B4:37:C:C6	24:BE:156:GLY:N	2.58	0.71
24:BE:184:ASP:HA	24:BE:187:THR:CG2	2.18	0.71
33:BN:14:ALA:HB1	33:BN:100:ASN:HD21	1.54	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:69:THR:HG23	33:BN:73:LYS:HG2	1.73	0.71
18:B3:2087:C:O2'	33:BN:78:THR:HB	1.91	0.71
33:BN:84:ALA:HB1	33:BN:85:LYS:NZ	2.05	0.71
18:B3:448:G:H3'	18:B3:1306:U:O4'	1.90	0.71
18:B3:745:G:O6	34:BO:91:ALA:HB1	1.84	0.71
23:BD:134:VAL:HG12	23:BD:139:HIS:CE1	2.25	0.71
18:B3:1309:U:C6	23:BD:203:GLY:HA2	2.25	0.71
18:B3:1347:U:O2'	23:BD:241:ALA:CB	2.38	0.71
23:BD:30:ARG:HG3	23:BD:33:ILE:HD13	1.70	0.71
34:BO:30:VAL:O	34:BO:49:LEU:HD13	1.90	0.71
18:B3:471:G:C5'	45:BY:15:HIS:NE2	2.53	0.71
45:BY:30:LYS:HD2	45:BY:31:LYS:C	2.11	0.71
47:B9:47:LYS:HA	47:B9:47:LYS:NZ	2.05	0.71
21:BB:112:VAL:HG22	21:BB:165:ILE:O	1.91	0.71
21:BB:233:LYS:HD2	21:BB:234:ALA:N	2.06	0.71
16:AQ:87:ARG:O	16:AQ:87:ARG:HD3	1.91	0.71
18:B3:67:A:OP2	18:B3:108:U:H5'	1.91	0.71
44:BX:27:GLU:OE2	44:BX:31:LEU:HB2	1.91	0.71
18:B3:71:G:H22	44:BX:56:THR:HG21	1.54	0.71
18:B3:2310:G:H2'	28:BI:119:TRP:HZ2	1.54	0.71
18:B3:2830:U:O4'	22:BC:126:LYS:NZ	2.24	0.71
22:BC:165:ILE:HG23	22:BC:168:THR:CG2	2.20	0.71
18:B3:2819:C:O5'	22:BC:99:ARG:C	2.29	0.71
28:BI:98:ARG:HB2	28:BI:120:GLY:O	1.90	0.71
26:BG:211:ALA:O	26:BG:214:VAL:HG22	1.90	0.71
27:BH:20:ILE:HG13	27:BH:24:ILE:HD13	1.71	0.71
1:AA:1086:U:C4'	1:AA:1389:C:C4'	2.62	0.71
18:B3:1501:A:C5'	35:BP:37:ARG:CD	2.64	0.71
18:B3:2435:U:H4'	46:BZ:27:TYR:CE2	2.24	0.71
1:AA:358:U:H5'	2:AT:390:ASP:OD1	1.89	0.71
18:B3:1235:G:C8	32:BM:63:PHE:HE2	2.05	0.71
18:B3:2397:G:C8	41:BV:46:LYS:NZ	2.48	0.71
6:AE:98:LYS:NZ	6:AE:114:ILE:HD12	2.06	0.71
29:BJ:8:MET:HG3	29:BJ:9:ARG:N	2.06	0.71
1:AA:106:C:O2'	1:AA:379:C:P	2.44	0.71
1:AA:197:A:H4'	1:AA:198:G:O5'	1.91	0.71
41:BV:34:ALA:HB3	41:BV:43:ASN:CB	2.21	0.71
2:AT:836:GLN:NE2	2:AT:836:GLN:H	1.88	0.71
1:AA:1225:A:C8	17:AS:100:LYS:HE2	2.26	0.71
18:B3:843:A:O3'	33:BN:130:ARG:HG3	1.90	0.71
9:AI:51:LEU:HB3	9:AI:58:LYS:O	1.91	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:36:C:H2'	24:BE:156:GLY:H	1.53	0.71
19:B4:7:G:OP1	24:BE:30:TYR:CE1	2.44	0.71
18:B3:2089:A:C5'	33:BN:68:ARG:HH21	2.04	0.71
23:BD:135:LEU:H	23:BD:135:LEU:HD23	1.56	0.71
23:BD:19:LEU:CB	23:BD:20:PRO:HA	2.20	0.71
23:BD:83:ARG:O	23:BD:97:ARG:HD2	1.89	0.71
18:B3:2275:G:H5'	31:BL:78:ALA:CA	2.19	0.71
18:B3:772:G:C2	45:BY:46:TYR:HE2	2.08	0.71
47:B9:25:VAL:HG12	47:B9:26:LYS:HD2	1.71	0.71
47:B9:30:ILE:O	47:B9:30:ILE:HD13	1.90	0.71
21:BB:116:GLU:CA	21:BB:123:GLY:HA2	2.21	0.71
21:BB:45:LYS:HB3	21:BB:71:ARG:NE	2.05	0.71
18:B3:1262:C:H5'	25:BF:110:ILE:CG2	2.18	0.71
18:B3:107:U:C6	44:BX:60:GLU:O	2.43	0.71
18:B3:1007:A:H62	28:BI:19:LYS:HD2	1.54	0.71
22:BC:114:LYS:HB3	22:BC:115:ARG:HH21	1.55	0.71
22:BC:156:VAL:CG2	22:BC:158:ARG:HH22	2.04	0.71
22:BC:83:VAL:HG21	22:BC:163:THR:HG22	1.72	0.71
18:B3:1734:C:H5''	22:BC:245:LEU:HB3	1.73	0.71
22:BC:75:VAL:HG11	22:BC:326:CYS:CA	2.19	0.71
28:BI:17:TYR:HA	28:BI:18:PRO:O	1.89	0.71
18:B3:182:G:O2'	31:BL:158:ARG:NE	2.23	0.71
26:BG:129:TYR:HE1	26:BG:202:VAL:HG11	1.55	0.71
26:BG:130:ALA:O	26:BG:131:VAL:HG13	1.91	0.71
31:BL:183:LYS:HG3	31:BL:195:THR:OG1	1.90	0.71
18:B3:1794:G:P	35:BP:97:ARG:CG	2.78	0.71
10:AJ:70:THR:HA	14:AN:42:PHE:N	2.05	0.71
1:AA:618:C:P	5:AD:140:ILE:O	2.49	0.71
5:AD:101:VAL:CB	5:AD:191:ALA:H	2.04	0.71
1:AA:642:A:C5	8:AH:106:SER:HA	2.25	0.71
1:AA:67:C:H2'	1:AA:171:A:N3	2.06	0.71
18:B3:1745:G:O5'	37:BR:22:ILE:HD13	1.90	0.71
1:AA:1370:G:C5'	9:AI:123:PRO:HG3	2.20	0.71
27:BH:127:PRO:HD2	27:BH:160:ASP:OD2	1.89	0.71
27:BH:12:VAL:HG22	27:BH:13:PRO:CB	2.20	0.71
27:BH:94:TYR:CG	27:BH:177:ASP:HA	2.26	0.71
43:BW:10:GLU:CG	43:BW:69:ARG:HG3	2.21	0.71
40:BU:40:ARG:NE	40:BU:41:ALA:H	1.89	0.71
6:AE:202:LYS:HD2	6:AE:207:GLU:OE1	1.91	0.71
1:AA:434:U:H2'	1:AA:435:C:C6	2.25	0.71
1:AA:120:A:N3	1:AA:122:G:C6	2.59	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:124:G:O5'	1:AA:289:G:N2	2.21	0.71
47:B9:16:ARG:N	47:B9:16:ARG:HD3	2.05	0.71
18:B3:337:A:H2	18:B3:1314:U:HO2'	1.39	0.71
1:AA:988:G:O2'	1:AA:1014:A:H3'	1.91	0.71
13:AM:101:LEU:O	13:AM:105:VAL:HG23	1.90	0.71
9:AI:51:LEU:HD22	9:AI:58:LYS:NZ	2.06	0.71
9:AI:98:GLU:O	9:AI:99:GLN:HG3	1.90	0.71
10:AJ:34:LEU:CA	10:AJ:37:VAL:HG22	2.18	0.71
10:AJ:96:PRO:HA	10:AJ:99:ILE:CD1	2.21	0.71
36:BQ:34:TYR:CE1	36:BQ:97:LYS:HB3	2.26	0.71
36:BQ:34:TYR:HD1	36:BQ:97:LYS:HD3	1.52	0.71
33:BN:9:ASN:HB3	33:BN:10:PRO:C	2.11	0.71
18:B3:1305:C:C2'	23:BD:194:ARG:NH2	2.53	0.71
18:B3:721:A:OP2	34:BO:72:LYS:HE2	1.90	0.71
18:B3:1164:U:H5'	30:BK:47:ALA:HB1	1.71	0.71
18:B3:1167:G:H2'	30:BK:110:ILE:CG2	2.21	0.71
21:BB:118:LYS:CE	21:BB:118:LYS:HA	2.17	0.71
21:BB:47:ILE:HG22	21:BB:58:ALA:CB	2.21	0.71
21:BB:44:VAL:HG11	21:BB:58:ALA:HB1	1.70	0.71
1:AA:231:G:N3	1:AA:263:A:C2	2.57	0.71
18:B3:92:G:C2	44:BX:42:PRO:HG2	2.25	0.71
44:BX:28:LEU:HD13	44:BX:47:VAL:HG22	1.73	0.71
18:B3:1055:G:C8	28:BI:110:ARG:C	2.62	0.71
28:BI:165:ILE:O	28:BI:166:ILE:HG13	1.91	0.71
18:B3:2312:G:P	28:BI:22:TYR:HE1	2.06	0.71
18:B3:2763:G:C4'	37:BR:84:SER:H	1.98	0.71
26:BG:151:LEU:HD21	26:BG:185:LEU:HD22	1.73	0.71
18:B3:1787:C:C2'	18:B3:2882:G:H3'	1.88	0.71
18:B3:1787:C:N3	18:B3:2883:A:C1'	2.52	0.71
18:B3:1761:U:H1'	35:BP:80:ARG:HH22	0.54	0.71
18:B3:2337:G:OP1	29:BJ:103:PHE:N	2.23	0.71
29:BJ:15:LYS:O	29:BJ:129:VAL:HG12	1.90	0.71
18:B3:2214:A:C4	20:BA:106:LYS:HE3	2.25	0.71
18:B3:1447:U:N1	39:BT:70:THR:OG1	2.24	0.71
1:AA:11:G:O2'	1:AA:525:C:H1'	1.90	0.71
1:AA:59:A:C4'	1:AA:388:G:N9	2.45	0.71
2:AT:464:LEU:HD13	2:AT:510:ARG:HG3	1.73	0.71
27:BH:151:VAL:HA	27:BH:154:VAL:CG2	2.21	0.71
27:BH:172:ILE:HD12	27:BH:175:PHE:O	1.90	0.71
1:AA:1068:G:P	1:AA:1388:C:H5'	2.31	0.71
35:BP:22:TRP:N	35:BP:51:LYS:HD2	2.06	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:518:C:C2'	12:AL:66:SER:O	2.39	0.71
1:AA:731:G:OP1	1:AA:766:A:H1'	1.91	0.71
1:AA:1475:G:H2'	1:AA:1476:G:H8	1.55	0.71
1:AA:392:G:H2'	1:AA:393:A:H8	1.56	0.71
7:AG:175:THR:O	7:AG:179:ARG:HG3	1.90	0.71
13:AM:21:ASN:ND2	13:AM:35:ILE:HG12	2.06	0.71
17:AS:56:PHE:CB	17:AS:58:LYS:HE2	2.20	0.71
18:B3:1074:G:H4'	42:B0:45:ARG:NH1	2.05	0.71
1:AA:1178:G:C6	9:AI:111:TYR:HE1	2.09	0.71
9:AI:88:LEU:HD23	9:AI:96:VAL:HG22	1.73	0.71
18:B3:2089:A:H5'	33:BN:68:ARG:HH21	1.55	0.71
33:BN:17:ARG:HD3	33:BN:145:ILE:CD1	2.21	0.71
42:B0:103:LYS:H	42:B0:103:LYS:HD3	1.56	0.71
23:BD:7:VAL:HG12	23:BD:18:ALA:H	1.54	0.71
23:BD:197:ARG:HG2	23:BD:198:TRP:N	2.06	0.71
18:B3:676:C:H2'	23:BD:231:SER:O	1.85	0.71
41:BV:59:TYR:HB3	41:BV:62:LYS:HB2	1.71	0.71
16:AQ:108:VAL:CG1	16:AQ:138:VAL:HG13	2.21	0.71
18:B3:93:C:C4'	44:BX:42:PRO:CB	2.63	0.71
22:BC:10:HIS:HB3	22:BC:232:TRP:HD1	1.54	0.71
22:BC:184:GLY:CA	22:BC:190:LYS:HD2	2.21	0.71
22:BC:11:GLY:HA3	22:BC:232:TRP:HB2	1.73	0.71
22:BC:90:GLY:CA	22:BC:101:LEU:HD12	2.17	0.71
37:BR:40:LYS:HG2	37:BR:57:MET:HB3	1.71	0.71
18:B3:2133:U:H4'	18:B3:2134:G:H5'	0.71	0.71
18:B3:2350:G:C2	29:BJ:116:ASP:CB	2.59	0.71
3:AB:138:VAL:HG13	3:AB:140:ILE:HG13	1.73	0.71
2:AT:140:GLU:N	2:AT:481:MET:HG3	2.06	0.71
18:B3:1993:C:C5'	37:BR:70:ARG:NH2	2.53	0.71
27:BH:25:VAL:CG1	27:BH:36:LYS:H	2.03	0.71
18:B3:1381:A:C5	43:BW:25:LYS:CA	2.69	0.71
43:BW:51:ALA:HB1	43:BW:52:PRO:HA	1.73	0.71
18:B3:2382:A:O4'	46:BZ:10:TYR:CD2	2.44	0.71
1:AA:1406:U:C1'	1:AA:1518:A:H4'	2.19	0.71
18:B3:903:U:C4	41:BV:15:SER:HB2	2.22	0.71
5:AD:31:ALA:HB1	5:AD:43:TYR:HE1	1.54	0.71
41:BV:126:ALA:CA	41:BV:146:LEU:HG	2.21	0.71
1:AA:1349:A:OP1	9:AI:135:SER:CB	2.39	0.71
22:BC:306:PRO:HB3	22:BC:361:ALA:O	1.91	0.71
18:B3:1250:C:OP1	19:B4:90:G:OP2	2.09	0.71
18:B3:544:G:H2'	18:B3:545:G:H5''	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1300:G:H5'	13:AM:30:TYR:CE2	2.23	0.70
13:AM:38:VAL:HB	13:AM:84:TRP:CZ3	2.26	0.70
13:AM:91:ASP:CA	13:AM:109:LEU:CG	2.63	0.70
19:B4:47:A:C5'	24:BE:153:THR:CA	2.68	0.70
19:B4:5:G:C3'	24:BE:27:LYS:NZ	2.50	0.70
18:B3:449:A:N7	18:B3:1350:U:O4'	2.21	0.70
18:B3:35:U:C5'	23:BD:104:THR:OG1	2.38	0.70
18:B3:516:A:N3	18:B3:1339:G:O2'	2.23	0.70
18:B3:721:A:H2	34:BO:141:ARG:HG3	1.54	0.70
18:B3:677:C:C1'	23:BD:231:SER:H	2.04	0.70
47:B9:44:LYS:O	47:B9:44:LYS:HD2	1.90	0.70
21:BB:56:PRO:HD3	47:B9:51:ALA:CB	2.21	0.70
25:BF:168:ILE:HG13	25:BF:176:GLY:N	2.06	0.70
1:AA:129:U:O3'	16:AQ:127:CYS:N	2.24	0.70
22:BC:17:PRO:HG2	22:BC:19:LYS:HG2	1.72	0.70
22:BC:251:ILE:HG22	22:BC:259:VAL:HG21	1.71	0.70
26:BG:203:ARG:HD2	26:BG:207:GLU:HA	1.72	0.70
31:BL:161:ARG:HD2	31:BL:164:THR:HA	1.71	0.70
18:B3:265:U:H5''	31:BL:55:LYS:HZ2	0.68	0.70
18:B3:1805:G:H5''	18:B3:2875:A:C4'	1.88	0.70
18:B3:2334:C:C1'	29:BJ:113:ILE:N	2.54	0.70
18:B3:2336:G:C3'	29:BJ:101:PHE:CG	2.72	0.70
1:AA:617:G:C6	5:AD:143:ILE:HD13	2.26	0.70
37:BR:37:ILE:HD13	37:BR:38:ALA:N	2.05	0.70
40:BU:35:LEU:HG	40:BU:39:LEU:CD2	2.21	0.70
41:BV:82:PRO:CD	41:BV:120:VAL:HA	2.20	0.70
41:BV:135:GLU:HB3	41:BV:136:LYS:NZ	2.04	0.70
1:AA:111:G:H1'	1:AA:389:A:C4'	2.20	0.70
21:BB:2:ARG:NH2	21:BB:207:ASP:HA	2.05	0.70
24:BE:219:PHE:N	24:BE:221:GLU:HG3	2.06	0.70
24:BE:87:GLY:HA3	24:BE:222:LEU:HD23	1.72	0.70
20:BA:53:LEU:HD22	20:BA:189:PHE:CE2	2.26	0.70
20:BA:190:PHE:CZ	20:BA:200:ASN:HB2	2.26	0.70
7:AG:84:ALA:CB	7:AG:89:ILE:HG13	2.21	0.70
18:B3:603:A:H4'	18:B3:604:G:O5'	1.91	0.70
18:B3:139:C:H4'	18:B3:140:G:H5'	1.71	0.70
13:AM:86:LEU:HD13	13:AM:87:ASN:H	1.51	0.70
1:AA:1322:C:OP2	17:AS:122:THR:HG22	1.89	0.70
1:AA:1220:G:C2	17:AS:77:ARG:HB2	2.26	0.70
1:AA:1219:U:C2'	17:AS:78:THR:HB	2.10	0.70
42:B0:19:ARG:HA	42:B0:19:ARG:NH1	2.05	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:42:VAL:HG22	10:AJ:91:ILE:HG21	1.72	0.70
18:B3:2295:G:C3'	36:BQ:5:HIS:O	2.39	0.70
18:B3:2088:C:O3'	33:BN:67:GLY:N	2.24	0.70
33:BN:69:THR:CG2	33:BN:73:LYS:HG2	2.21	0.70
23:BD:5:VAL:HG21	23:BD:150:VAL:HG13	1.72	0.70
34:BO:89:ASP:OD2	34:BO:109:GLY:HA3	1.90	0.70
18:B3:1358:A:OP2	23:BD:90:GLY:HA3	1.91	0.70
47:B9:28:LEU:CD2	47:B9:32:GLN:HB2	2.21	0.70
21:BB:149:LEU:CD1	21:BB:153:ALA:HB3	2.20	0.70
18:B3:1851:G:H4'	21:BB:243:GLY:O	1.90	0.70
1:AA:190(E):U:OP2	16:AQ:136:PHE:O	2.09	0.70
1:AA:161:A:H2'	1:AA:162:A:C8	2.26	0.70
22:BC:102:THR:HG22	22:BC:145:ARG:HE	1.54	0.70
22:BC:236:LYS:O	22:BC:236:LYS:HD3	1.91	0.70
18:B3:2653:A:H4'	22:BC:256:PRO:HB2	1.72	0.70
18:B3:1054:G:OP2	28:BI:110:ARG:NH2	2.21	0.70
37:BR:12:ARG:N	37:BR:86:ARG:HG3	2.05	0.70
18:B3:2244:A:N6	18:B3:2257:G:C2	2.59	0.70
26:BG:159:ILE:CG2	26:BG:161:LEU:HG	2.21	0.70
18:B3:1785:G:O2'	18:B3:2733:U:P	2.50	0.70
18:B3:1508:C:C5'	39:BT:77:ASP:HB2	2.19	0.70
10:AJ:70:THR:HB	14:AN:42:PHE:H	1.49	0.70
1:AA:615:C:OP2	5:AD:107:ARG:NH1	2.24	0.70
27:BH:12:VAL:HG22	27:BH:13:PRO:CA	2.21	0.70
27:BH:7:GLU:HG2	27:BH:56:ALA:HB2	1.71	0.70
27:BH:59:ASN:ND2	27:BH:60:GLY:H	1.90	0.70
1:AA:1071:C:OP2	6:AE:90:ARG:CD	2.39	0.70
18:B3:1398:G:O4'	35:BP:25:PRO:HG2	1.91	0.70
1:AA:1342:C:O2	9:AI:138:GLN:CB	2.39	0.70
18:B3:907:A:C4'	18:B3:1328:A:H4'	2.05	0.70
16:AQ:90:LEU:HD13	16:AQ:101:LYS:CB	2.21	0.70
20:BA:190:PHE:HE2	20:BA:200:ASN:HB2	1.54	0.70
1:AA:105:G:N2	1:AA:379:C:H1'	2.05	0.70
30:BK:73:VAL:HG11	30:BK:75:PRO:CD	2.21	0.70
23:BD:52:SER:HB2	23:BD:55:ALA:HB2	1.72	0.70
1:AA:107:G:C2'	1:AA:108:G:H5'	2.20	0.70
1:AA:1303:C:H41	13:AM:40:ARG:NE	1.89	0.70
1:AA:1318:A:N3	17:AS:56:PHE:CE1	2.55	0.70
1:AA:979:C:O4'	17:AS:80:MET:HG2	1.92	0.70
18:B3:638:C:C5'	42:B0:27:ARG:CB	2.66	0.70
7:AG:107:LEU:HG	7:AG:108:LYS:HD2	1.72	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:208:MET:HG3	24:BE:211:LEU:CD2	2.22	0.70
33:BN:17:ARG:HB2	33:BN:146:GLU:HA	1.73	0.70
23:BD:40:SER:OG	23:BD:110:VAL:HB	1.91	0.70
18:B3:672:G:H5''	23:BD:214:ILE:HD12	1.67	0.70
34:BO:126:GLN:OE1	34:BO:129:VAL:HG13	1.90	0.70
18:B3:1651:C:C6	47:B9:50:ALA:HB2	2.26	0.70
18:B3:2124:G:O2'	21:BB:229:VAL:HG12	1.91	0.70
21:BB:82:HIS:CA	47:B9:62:THR:O	2.39	0.70
25:BF:177:ILE:CG2	25:BF:182:ASP:HB3	2.20	0.70
18:B3:2818:A:H2'	22:BC:99:ARG:C	1.84	0.70
22:BC:231:ARG:HD3	22:BC:232:TRP:H	1.56	0.70
22:BC:286:LYS:HD3	22:BC:286:LYS:N	2.06	0.70
22:BC:71:VAL:HG13	37:BR:87:ARG:HH11	1.54	0.70
37:BR:94:TYR:HD1	38:BS:21:PHE:CG	1.98	0.70
31:BL:171:ARG:HB2	31:BL:171:ARG:CZ	2.21	0.70
18:B3:921:G:O3'	41:BV:41:ARG:NE	2.24	0.70
18:B3:2336:G:N2	29:BJ:127:TYR:CG	2.59	0.70
18:B3:2337:G:O2'	29:BJ:127:TYR:N	2.10	0.70
20:BA:54:LYS:HG3	20:BA:156:LYS:CA	2.20	0.70
3:AB:75:ILE:HD13	3:AB:97:ILE:HB	1.71	0.70
1:AA:45:U:H5''	1:AA:307:C:O2'	1.91	0.70
18:B3:2596:A:C4'	37:BR:73:VAL:HG12	2.21	0.70
27:BH:39:LYS:HD3	27:BH:39:LYS:O	1.91	0.70
35:BP:41:ARG:HD3	35:BP:44:VAL:HG11	1.71	0.70
35:BP:4:ARG:HD3	35:BP:5:THR:N	2.06	0.70
1:AA:1075:C:C3'	3:AB:103:PRO:CD	2.63	0.70
18:B3:2460:A:C2'	46:BZ:60:LYS:HG3	2.20	0.70
40:BU:37:LYS:HA	40:BU:40:ARG:HD3	1.70	0.70
18:B3:905:C:H6	41:BV:11:ARG:NH1	1.88	0.70
41:BV:120:VAL:HG21	41:BV:122:VAL:CG1	2.21	0.70
21:BB:204:ASN:HA	21:BB:207:ASP:OD1	1.91	0.70
18:B3:918:G:C2	41:BV:45:ASP:OD1	2.44	0.70
15:AO:77:ASN:HB2	15:AO:85:GLU:HG3	1.72	0.70
36:BQ:39:ILE:CD1	36:BQ:99:SER:HB3	2.21	0.70
2:AT:194:ASP:HB2	2:AT:197:LEU:HD13	1.73	0.70
1:AA:542:G:H4'	5:AD:47:PHE:HE2	1.55	0.70
13:AM:27:LYS:HE3	13:AM:57:ARG:HH22	1.56	0.70
42:B0:18:LYS:HD2	42:B0:30:GLU:HB2	1.71	0.70
18:B3:618:G:N3	42:B0:41:VAL:CG2	2.54	0.70
19:B4:51:A:H62	24:BE:59:ASP:H	1.32	0.70
19:B4:14:G:H1'	24:BE:12:TYR:HB2	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:42:ALA:HA	24:BE:49:TYR:CE2	2.26	0.70
18:B3:745:G:H21	41:BV:76:LYS:NZ	1.88	0.70
34:BO:123:THR:CG2	34:BO:126:GLN:H	2.04	0.70
18:B3:1898:G:N3	21:BB:223:THR:HG21	2.06	0.70
25:BF:152:PHE:HB2	25:BF:200:PHE:HD2	1.56	0.70
28:BI:103:LEU:HB2	28:BI:118:ALA:HB2	1.73	0.70
22:BC:71:VAL:C	37:BR:87:ARG:NH1	2.32	0.70
18:B3:1788:U:H2'	18:B3:2881:C:O2	1.91	0.70
18:B3:2335:C:N3	29:BJ:116:ASP:CB	2.15	0.70
18:B3:2337:G:C1'	29:BJ:127:TYR:CA	2.34	0.70
18:B3:1673:U:H5''	39:BT:109:VAL:CG2	2.21	0.70
8:AH:27:ARG:NE	8:AH:27:ARG:HA	2.06	0.70
37:BR:65:GLY:O	37:BR:66:LYS:HG2	1.91	0.70
1:AA:1348:U:H5''	9:AI:134:ARG:CG	2.19	0.70
27:BH:57:VAL:HG11	32:BM:126:LEU:CD1	2.21	0.70
35:BP:4:ARG:O	35:BP:7:LYS:HB3	1.91	0.70
35:BP:9:LEU:CD1	35:BP:37:ARG:HE	2.04	0.70
1:AA:1075:C:H5'	3:AB:102:THR:HB	1.70	0.70
18:B3:78:G:O2'	40:BU:25:SER:CA	2.38	0.70
41:BV:125:LYS:HA	41:BV:145:GLU:HB2	1.72	0.70
18:B3:2081:A:C1'	32:BM:69:PRO:HG2	2.19	0.70
18:B3:48:A:C8	18:B3:49:A:O5'	2.44	0.70
23:BD:9:SER:N	23:BD:15:THR:HG21	2.06	0.70
29:BJ:132:ARG:NH1	29:BJ:132:ARG:H	1.90	0.70
4:AC:165:ASP:CB	4:AC:167:ILE:HG12	2.21	0.70
6:AE:79:VAL:HG21	6:AE:124:ILE:CD1	2.21	0.70
22:BC:8:PRO:HB3	22:BC:9:ARG:NH1	2.07	0.70
3:AB:193:PRO:HB3	3:AB:196:ILE:HD12	1.74	0.70
18:B3:2909:G:O2'	18:B3:2910:A:H5'	1.91	0.70
1:AA:1302:U:H3'	13:AM:54:LEU:HD23	1.49	0.70
1:AA:1318:A:O2'	17:AS:83:MET:CA	2.39	0.70
13:AM:92:ILE:CA	13:AM:109:LEU:HD11	2.20	0.70
19:B4:7:G:H8	24:BE:22:ARG:HG2	1.54	0.70
24:BE:41:LYS:HG3	24:BE:145:PHE:HD1	1.56	0.70
18:B3:2413:A:O4'	24:BE:175:HIS:C	2.29	0.70
33:BN:13:SER:HB2	33:BN:149:VAL:CG2	2.21	0.70
33:BN:66:ILE:HB	33:BN:79:LYS:NZ	2.05	0.70
18:B3:25:A:N3	18:B3:1320:U:O3'	2.23	0.70
18:B3:449:A:C2'	23:BD:46:ARG:NE	2.52	0.70
23:BD:124:ALA:HB2	23:BD:234:LEU:CD1	2.21	0.70
23:BD:160:LYS:HE2	23:BD:162:LYS:HB3	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:106:PHE:HD2	34:BO:111:ARG:HB3	1.50	0.70
18:B3:111:C:C4'	18:B3:119:A:H61	1.96	0.70
18:B3:1167:G:C2'	30:BK:111:GLU:HA	2.21	0.70
30:BK:46:ILE:HG13	30:BK:47:ALA:N	2.07	0.70
18:B3:1163:G:N7	30:BK:51:LYS:CG	2.48	0.70
47:B9:41:CYS:CB	47:B9:43:LYS:HD3	2.18	0.70
21:BB:148:ARG:O	21:BB:149:LEU:HD23	1.91	0.70
25:BF:168:ILE:HD12	25:BF:168:ILE:H	1.56	0.70
18:B3:2545:U:C2'	22:BC:238:PRO:HG3	2.20	0.70
37:BR:114:ILE:HG12	37:BR:132:ASN:O	1.90	0.70
26:BG:116:ALA:CB	26:BG:217:ILE:HB	2.21	0.70
18:B3:175:G:H1	31:BL:85:ASN:HD21	1.38	0.70
18:B3:1785:G:C3'	18:B3:2733:U:OP1	2.38	0.70
18:B3:2334:C:C2	29:BJ:116:ASP:HA	2.26	0.70
18:B3:2345:A:N3	29:BJ:23:GLY:C	2.45	0.70
29:BJ:141:LYS:HD3	29:BJ:144:LYS:CE	2.22	0.70
20:BA:58:CYS:HA	20:BA:153:SER:HB3	1.72	0.70
20:BA:59:PRO:O	20:BA:60:ARG:HG3	1.91	0.70
6:AE:219:ASN:HB2	8:AH:76:PRO:HG3	1.72	0.70
27:BH:17:THR:H	27:BH:28:VAL:HB	1.55	0.70
27:BH:64:HIS:O	27:BH:67:ALA:HB3	1.91	0.70
1:AA:779:C:H5''	11:AK:131:ARG:C	2.04	0.70
18:B3:78:G:C4'	40:BU:25:SER:HG	1.82	0.70
40:BU:45:ILE:CD1	40:BU:47:ALA:H	2.03	0.70
1:AA:120:A:H1'	1:AA:123:C:C5	2.26	0.70
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.06	0.70
21:BB:142:GLU:HG3	21:BB:144:LYS:CE	2.20	0.70
9:AI:52:LEU:O	9:AI:52:LEU:HD23	1.92	0.70
13:AM:129:TRP:HZ3	17:AS:121:ILE:HB	1.55	0.70
1:AA:1298:C:C4'	13:AM:57:ARG:NH2	2.53	0.70
13:AM:131:LEU:HD11	17:AS:121:ILE:HG21	1.73	0.70
42:B0:35:GLN:HG2	42:B0:43:ARG:HB2	1.72	0.70
1:AA:1290:G:C5'	7:AG:108:LYS:CE	2.68	0.70
10:AJ:58:LEU:HG	10:AJ:90:TYR:CE2	2.26	0.70
18:B3:2328:U:OP1	24:BE:153:THR:HB	1.87	0.70
24:BE:150:LEU:HD13	24:BE:151:GLN:N	2.07	0.70
33:BN:116:ILE:HD13	33:BN:116:ILE:H	1.57	0.70
18:B3:1164:U:C5	30:BK:49:ALA:CA	2.74	0.70
18:B3:1181:A:N3	30:BK:107:ASP:N	2.35	0.70
18:B3:1086:A:H61	25:BF:92:ASN:HD21	1.32	0.70
25:BF:97:LYS:O	25:BF:97:LYS:HD3	1.90	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:952:G:H4'	18:B3:953:G:OP1	1.91	0.70
18:B3:2823:G:P	22:BC:135:LYS:HB2	2.31	0.70
22:BC:217:ILE:HG22	22:BC:275:THR:CA	2.22	0.70
28:BI:154:ARG:NH2	28:BI:155:ALA:HB2	2.07	0.70
18:B3:968:G:H1'	28:BI:39:LYS:HE2	1.74	0.70
31:BL:141:ILE:HD11	31:BL:151:CYS:SG	2.32	0.70
31:BL:164:THR:OG1	31:BL:169:LYS:HB3	1.91	0.70
18:B3:1705:C:C4'	35:BP:62:THR:CG2	2.70	0.70
18:B3:1806:G:C4'	18:B3:2874:G:O2'	2.38	0.70
7:AG:117:LEU:HG	7:AG:128:PRO:HB2	1.71	0.70
29:BJ:16:LEU:HD21	29:BJ:78:ILE:CD1	2.21	0.70
18:B3:2345:A:O2'	29:BJ:62:GLU:OE2	2.09	0.70
1:AA:619:U:O2'	5:AD:129:ILE:CB	2.22	0.70
1:AA:33:A:H4'	1:AA:364:A:O2'	1.92	0.70
1:AA:553:A:P	12:AL:40:SER:HB2	2.31	0.70
27:BH:42:ASP:O	27:BH:57:VAL:HG11	1.82	0.70
40:BU:30:LEU:O	40:BU:30:LEU:HD23	1.91	0.70
11:AK:26:PHE:HB2	11:AK:41:VAL:HG12	1.74	0.70
4:AC:100:GLN:HE22	4:AC:135:VAL:CG2	2.04	0.70
4:AC:171:THR:CG2	4:AC:184:LYS:HD3	2.16	0.70
11:AK:87:GLY:CA	11:AK:96:GLY:HA3	2.13	0.70
18:B3:270:U:OP1	18:B3:273:G:O2'	2.10	0.70
28:BI:32:ARG:HG2	28:BI:33:ILE:HD12	1.74	0.70
40:BU:89:LYS:HD2	40:BU:92:GLY:H	1.57	0.70
18:B3:2205:G:C6	18:B3:2206:C:C4	2.79	0.70
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.92	0.70
1:AA:1221:G:P	17:AS:81:ARG:HA	2.31	0.70
42:B0:35:GLN:CG	42:B0:43:ARG:HB2	2.21	0.70
9:AI:86:LYS:O	9:AI:89:VAL:HG12	1.91	0.70
18:B3:2329:C:H2'	18:B3:2330:U:O4	1.91	0.70
19:B4:119:C:C1'	24:BE:71:GLY:O	2.32	0.70
23:BD:177:LEU:CA	23:BD:205:LEU:HD11	2.22	0.70
18:B3:890:C:C2	45:BY:48:TRP:O	2.44	0.70
18:B3:1164:U:OP1	30:BK:50:THR:N	2.24	0.70
21:BB:29:ARG:HB3	21:BB:29:ARG:HH11	1.57	0.70
21:BB:45:LYS:HB3	21:BB:71:ARG:HD3	1.74	0.70
19:B4:86:G:OP1	25:BF:218:LYS:CD	2.39	0.70
25:BF:177:ILE:HD12	25:BF:178:LEU:CD1	2.15	0.70
25:BF:99:ARG:H	25:BF:102:LEU:CD1	2.04	0.70
18:B3:1056:U:O2	18:B3:2494:G:C1'	2.40	0.70
18:B3:2826:G:H1'	22:BC:124:SER:HB2	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:118:TYR:HA	22:BC:132:TYR:CD1	2.27	0.70
22:BC:357:TRP:C	38:BS:15:PRO:CB	2.57	0.70
28:BI:43:VAL:HG11	28:BI:86:HIS:CE1	2.27	0.70
18:B3:1056:U:C4'	28:BI:8:CYS:HB2	2.04	0.70
26:BG:198:ALA:C	26:BG:199:LEU:HD22	2.12	0.70
18:B3:1565:C:H5''	18:B3:2738:G:C8	2.27	0.70
18:B3:2737:C:OP2	35:BP:62:THR:HG22	1.91	0.70
1:AA:1240:U:C5'	7:AG:188:THR:CA	2.19	0.70
18:B3:2336:G:H4'	29:BJ:101:PHE:CD2	2.26	0.70
1:AA:401:C:O2'	1:AA:622:A:C8	2.44	0.70
3:AB:139:ASN:ND2	8:AH:68:LEU:CG	2.42	0.70
1:AA:69:G:O2'	1:AA:171:A:N6	2.24	0.70
18:B3:1993:C:H1'	37:BR:72:LYS:HG3	1.66	0.70
18:B3:164:G:C5'	41:BV:31:ARG:HG3	2.17	0.70
18:B3:1139:U:H4'	27:BH:62:ARG:NE	2.03	0.70
18:B3:2780:C:O2'	27:BH:159:ALA:HB3	1.91	0.70
18:B3:2565:C:O2	27:BH:170:LYS:O	2.10	0.70
40:BU:23:PRO:HD2	40:BU:26:GLN:HE21	1.56	0.70
41:BV:143:VAL:HG22	41:BV:144:VAL:HG23	1.74	0.70
18:B3:269:G:C5'	18:B3:274:G:H1'	2.20	0.70
19:B4:76:G:C3'	19:B4:77:A:H5''	2.16	0.70
8:AH:81:LYS:HE3	8:AH:123:LYS:HD2	1.73	0.70
18:B3:1369:A:OP2	33:BN:64:SER:CB	2.40	0.70
28:BI:82:ARG:HB2	28:BI:82:ARG:NH1	2.06	0.70
2:AT:202:VAL:HG12	2:AT:209:VAL:CG2	2.22	0.70
13:AM:50:ALA:HA	13:AM:68:ARG:CD	2.22	0.70
18:B3:618:G:O4'	42:B0:46:PHE:CA	2.37	0.70
10:AJ:45:ALA:HB1	10:AJ:49:ASN:OD1	1.92	0.70
18:B3:2413:A:H1'	24:BE:175:HIS:H	1.09	0.70
18:B3:2328:U:P	24:BE:153:THR:OG1	2.48	0.70
24:BE:41:LYS:HE2	24:BE:41:LYS:HA	1.73	0.70
33:BN:59:PHE:HE1	33:BN:79:LYS:CE	2.04	0.70
18:B3:2087:C:C1'	33:BN:78:THR:HG22	2.19	0.70
33:BN:94:LEU:HD13	33:BN:95:GLN:H	1.54	0.70
23:BD:30:ARG:HB3	23:BD:33:ILE:HD13	1.73	0.70
30:BK:84:ALA:HB1	30:BK:104:ILE:HD11	1.74	0.70
18:B3:2615:U:H5'	22:BC:240:LYS:HG3	1.73	0.70
22:BC:261:TRP:HB2	22:BC:263:VAL:CG2	2.19	0.70
28:BI:102:MET:HB3	28:BI:113:GLN:CG	2.21	0.70
28:BI:105:CYS:N	28:BI:112:GLN:H	1.90	0.70
31:BL:188:LYS:HA	31:BL:188:LYS:CE	2.20	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:13:LYS:CE	31:BL:18:LEU:HG	2.22	0.70
18:B3:919:U:O2	41:BV:41:ARG:C	2.29	0.70
18:B3:2350:G:O6	29:BJ:115:TYR:CG	2.45	0.70
29:BJ:59:ARG:NE	29:BJ:62:GLU:HG2	2.06	0.70
18:B3:2214:A:C1'	20:BA:106:LYS:HD2	2.21	0.70
39:BT:107:LEU:HB3	39:BT:124:ARG:HH21	1.57	0.70
10:AJ:82:TYR:OH	14:AN:43:ARG:CZ	2.40	0.70
18:B3:2558:G:O2'	18:B3:2799:A:C3'	2.40	0.70
27:BH:13:PRO:HD2	27:BH:16:VAL:CG2	2.22	0.70
27:BH:42:ASP:H	32:BM:125:VAL:N	1.89	0.70
1:AA:14:U:OP2	1:AA:914:A:P	2.50	0.70
11:AK:12:VAL:HA	11:AK:75:ILE:HA	1.72	0.70
24:BE:191:ASP:CG	24:BE:192:PRO:HD3	2.12	0.70
32:BM:3:GLU:O	32:BM:32:ILE:HD13	1.92	0.70
4:AC:24:PHE:HA	4:AC:28:LEU:HD23	1.73	0.70
4:AC:31:GLU:HG2	4:AC:51:ALA:HB1	1.74	0.70
2:AT:202:VAL:HG12	2:AT:209:VAL:HG23	1.72	0.70
1:AA:1329:A:C2	13:AM:93:THR:CA	2.70	0.70
1:AA:1309:G:C4	13:AM:92:ILE:CB	1.98	0.70
1:AA:1321:C:C2	17:AS:81:ARG:HB2	2.22	0.70
1:AA:1281:U:H4'	1:AA:1282:C:OP2	1.91	0.70
9:AI:29:LYS:HD3	9:AI:32:GLY:CA	2.22	0.70
24:BE:64:ILE:CG1	24:BE:109:THR:HG21	2.19	0.70
33:BN:98:ALA:HA	33:BN:108:ALA:HB1	1.73	0.70
33:BN:26:LYS:H	33:BN:28:THR:CG2	2.04	0.70
18:B3:663:C:H3'	23:BD:115:ASN:CG	2.11	0.70
23:BD:256:LYS:N	23:BD:256:LYS:HD2	2.06	0.70
44:BX:48:ARG:O	44:BX:49:LYS:HG3	1.92	0.70
18:B3:1132:A:C2'	18:B3:2521:A:H4'	0.45	0.70
22:BC:14:GLY:H	22:BC:16:LEU:HD11	1.57	0.70
22:BC:231:ARG:HA	22:BC:269:ARG:NH1	2.05	0.70
18:B3:2520:G:H5'	28:BI:159:PHE:O	1.92	0.70
31:BL:40:ARG:NH1	31:BL:40:ARG:HB2	2.05	0.70
18:B3:1806:G:C4	18:B3:2884:G:H1'	2.26	0.70
29:BJ:32:ALA:H	29:BJ:34:LYS:CD	2.05	0.70
18:B3:2347:C:H1'	29:BJ:67:HIS:O	1.91	0.70
20:BA:55:LEU:HD21	20:BA:167:VAL:HG23	1.72	0.70
39:BT:113:VAL:HG23	39:BT:114:ARG:H	1.55	0.70
4:AC:41:THR:HG23	4:AC:42:PRO:N	2.06	0.70
1:AA:298:A:H1'	6:AE:196:TYR:CZ	2.26	0.70
1:AA:31:G:OP2	1:AA:306:G:N2	2.24	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:37:ILE:HG22	37:BR:59:MET:C	2.12	0.70
27:BH:63:LYS:CD	32:BM:129:LYS:N	2.27	0.70
18:B3:1401:G:C5'	43:BW:61:ARG:O	2.38	0.70
35:BP:11:ALA:HA	35:BP:14:VAL:HB	1.74	0.70
40:BU:70:ILE:HG12	40:BU:80:VAL:CG2	2.22	0.70
40:BU:80:VAL:HG22	40:BU:81:GLN:H	1.56	0.70
18:B3:697:G:C2'	41:BV:112:LEU:CD1	2.67	0.70
32:BM:26:LEU:HG	32:BM:101:LEU:CD1	2.17	0.70
6:AE:151:HIS:CB	6:AE:193:GLU:HB2	2.17	0.70
16:AQ:76:SER:HB3	16:AQ:84:VAL:HG12	1.74	0.70
35:BP:125:GLU:HG3	35:BP:130:ALA:HB3	1.73	0.70
18:B3:1250:C:H5''	19:B4:89:C:O3'	1.92	0.70
1:AA:988:G:N1	1:AA:1015:A:N3	2.40	0.70
18:B3:541:C:OP1	42:B0:14:THR:HG23	1.91	0.70
42:B0:42:VAL:HG23	42:B0:49:ASN:HD22	1.56	0.70
1:AA:320:C:H4'	1:AA:1436:U:N3	2.07	0.70
33:BN:59:PHE:CE1	33:BN:79:LYS:HE2	2.23	0.70
23:BD:63:SER:CB	23:BD:74:PRO:HA	2.21	0.70
18:B3:1874:U:O5'	21:BB:127:ARG:CD	2.37	0.70
18:B3:855:U:H4'	18:B3:856:G:O5'	1.91	0.70
21:BB:165:ILE:HG23	21:BB:166:GLY:H	1.56	0.70
21:BB:165:ILE:HG23	21:BB:166:GLY:N	2.06	0.70
25:BF:87:ARG:HA	25:BF:133:VAL:CG1	2.10	0.70
18:B3:2468:A:C6	46:BZ:54:LYS:HB2	2.25	0.70
1:AA:344:A:H4'	1:AA:345:C:OP2	1.92	0.70
18:B3:2826:G:HO2'	22:BC:123:LYS:C	1.94	0.70
22:BC:228:VAL:HA	22:BC:232:TRP:CH2	2.26	0.70
28:BI:49:CYS:HB2	28:BI:168:SER:CB	2.21	0.70
18:B3:2135:A:N1	18:B3:2240:U:O4	2.24	0.70
18:B3:2244:A:O3'	31:BL:27:TRP:CZ3	2.45	0.70
31:BL:102:GLU:OE1	31:BL:161:ARG:HB3	1.92	0.70
18:B3:2736:U:H3'	35:BP:61:ARG:HB3	1.68	0.70
18:B3:1815:A:H5''	18:B3:2751:C:C6	2.27	0.70
18:B3:1808:C:OP1	18:B3:2885:A:H3'	1.91	0.70
18:B3:2333:G:C1'	29:BJ:113:ILE:O	2.39	0.70
18:B3:2214:A:H1'	20:BA:103:LEU:HA	1.74	0.70
39:BT:120:LYS:HE3	39:BT:120:LYS:CA	2.17	0.70
39:BT:61:VAL:HG11	39:BT:97:ALA:HB3	1.72	0.70
1:AA:67:C:O2	1:AA:171:A:N1	2.25	0.70
1:AA:64:G:C2	1:AA:73:C:N3	2.60	0.70
1:AA:1348:U:C4'	9:AI:134:ARG:CG	2.17	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1139:U:H4'	27:BH:62:ARG:HB3	1.74	0.70
18:B3:2779:G:H1'	27:BH:163:GLN:HB2	1.74	0.70
27:BH:47:LYS:HA	27:BH:47:LYS:CE	2.22	0.70
27:BH:8:GLN:HG2	27:BH:72:LYS:CE	2.21	0.70
27:BH:29:GLY:O	27:BH:82:VAL:HG22	1.91	0.70
32:BM:13:HIS:CD2	32:BM:121:GLN:HG3	2.26	0.70
43:BW:27:ARG:HH11	43:BW:66:VAL:CG2	2.05	0.70
18:B3:2552:C:H1'	18:B3:2553:A:C2'	2.21	0.70
46:BZ:25:THR:HG21	46:BZ:70:ARG:CG	2.19	0.70
46:BZ:21:GLN:O	46:BZ:74:VAL:HG12	1.92	0.70
6:AE:188:GLN:HG3	6:AE:189:LEU:HD12	1.71	0.70
1:AA:1343:G:O4'	9:AI:138:GLN:HB2	1.92	0.70
5:AD:21:SER:O	5:AD:23:ARG:HD3	1.91	0.70
41:BV:97:THR:HG21	41:BV:124:VAL:CB	2.21	0.70
32:BM:26:LEU:HD13	32:BM:97:ALA:HB1	1.74	0.70
1:AA:1221:G:C8	17:AS:78:THR:O	2.44	0.69
1:AA:1318:A:H2	17:AS:82:ASN:HB3	0.94	0.69
1:AA:1329:A:H61	13:AM:94:ASP:C	1.84	0.69
13:AM:37:GLY:HA3	13:AM:101:LEU:CD2	2.22	0.69
1:AA:1309:G:C5	13:AM:92:ILE:HG21	2.04	0.69
1:AA:1329:A:O2'	13:AM:98:TYR:O	2.10	0.69
18:B3:882:A:C4'	45:BY:2:LYS:CB	2.65	0.69
18:B3:541:C:H5	42:B0:15:LYS:HG3	1.12	0.69
42:B0:35:GLN:OE1	42:B0:43:ARG:HB2	1.93	0.69
18:B3:620:A:O2'	42:B0:20:HIS:CE1	2.45	0.69
9:AI:19:ALA:HB2	9:AI:83:ALA:CB	2.21	0.69
24:BE:21:ARG:NH1	24:BE:21:ARG:HA	2.07	0.69
24:BE:29:ASP:O	24:BE:33:ARG:HG2	1.92	0.69
24:BE:33:ARG:HA	24:BE:36:LEU:HD21	1.73	0.69
36:BQ:74:VAL:H	36:BQ:89:LEU:CB	2.03	0.69
18:B3:2052:U:P	33:BN:23:VAL:HG22	2.27	0.69
33:BN:65:SER:C	33:BN:66:ILE:HD13	2.12	0.69
18:B3:721:A:C5'	34:BO:72:LYS:H	2.00	0.69
30:BK:80:LEU:O	30:BK:83:THR:HG22	1.92	0.69
21:BB:177:PRO:HB3	47:B9:22:ARG:CZ	2.22	0.69
18:B3:783:C:O2'	21:BB:20:ARG:NH1	2.25	0.69
44:BX:58:ILE:HG13	44:BX:59:ASN:N	2.06	0.69
22:BC:10:HIS:HB3	22:BC:233:GLY:O	1.92	0.69
22:BC:55:ILE:O	22:BC:71:VAL:HG23	1.90	0.69
28:BI:61:SER:HA	28:BI:126:ALA:CB	2.22	0.69
28:BI:72:ALA:HA	28:BI:154:ARG:NH2	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:161:ARG:HH11	31:BL:164:THR:CA	2.02	0.69
31:BL:22:GLN:HA	31:BL:22:GLN:HE21	1.56	0.69
18:B3:1597:A:H4'	35:BP:94:TRP:CZ2	2.26	0.69
18:B3:1708:C:H5'	35:BP:87:ARG:CD	2.22	0.69
29:BJ:44:PRO:HG2	29:BJ:68:VAL:H	1.55	0.69
29:BJ:18:LEU:H	29:BJ:68:VAL:CG1	2.05	0.69
18:B3:2213:G:O2'	20:BA:106:LYS:NZ	2.24	0.69
20:BA:102:LYS:HA	20:BA:105:LYS:HE3	1.72	0.69
20:BA:34:LEU:HD22	20:BA:205:VAL:O	1.91	0.69
4:AC:6:LYS:HE2	4:AC:7:LYS:H	1.57	0.69
5:AD:132:ARG:O	5:AD:140:ILE:HD11	1.91	0.69
1:AA:616:G:OP2	5:AD:149:ARG:HG3	1.92	0.69
5:AD:164:PHE:O	5:AD:167:ALA:HB3	1.92	0.69
8:AH:13:ILE:HG22	8:AH:77:ARG:HH22	1.57	0.69
1:AA:24:U:OP1	12:AL:39:LYS:HD3	1.92	0.69
1:AA:1369:C:OP2	9:AI:125:PRO:HA	1.92	0.69
27:BH:102:ASN:O	27:BH:113:GLU:HB3	1.91	0.69
32:BM:12:GLY:HA3	32:BM:123:LEU:CD1	2.22	0.69
43:BW:56:GLN:O	43:BW:60:LYS:HB2	1.91	0.69
40:BU:100:HIS:CD2	40:BU:101:PRO:HA	2.26	0.69
40:BU:100:HIS:HE2	40:BU:104:LEU:HD13	1.57	0.69
18:B3:906:C:C2	18:B3:1329:A:N7	2.60	0.69
1:AA:309:G:N2	1:AA:607:A:N6	2.39	0.69
18:B3:2663:U:O2'	18:B3:2816:A:N7	2.24	0.69
18:B3:1523:G:H2'	18:B3:1524:U:C6	2.26	0.69
24:BE:84:PRO:HG3	24:BE:88:ILE:C	2.12	0.69
4:AC:167:ILE:CD1	4:AC:188:MET:HG2	2.22	0.69
42:B0:113:LYS:O	42:B0:113:LYS:HD3	1.92	0.69
18:B3:1810:C:N3	18:B3:2753:G:C4	2.59	0.69
7:AG:213:LYS:HE2	7:AG:217:GLU:OE2	1.91	0.69
1:AA:650:G:O2'	1:AA:651:C:H5'	1.92	0.69
1:AA:989:C:O2	1:AA:1016:A:O4'	2.09	0.69
9:AI:100:SER:HA	9:AI:116:LEU:CG	2.22	0.69
18:B3:27:U:H2'	18:B3:1318:A:N3	1.88	0.69
18:B3:516:A:N3	18:B3:1340:G:H5'	2.06	0.69
23:BD:207:VAL:CG1	23:BD:247:VAL:HA	2.21	0.69
45:BY:32:THR:OG1	45:BY:38:TYR:HB2	1.90	0.69
18:B3:1167:G:OP1	30:BK:45:ASP:O	2.09	0.69
30:BK:91:ASP:OD2	30:BK:101:SER:HB2	1.92	0.69
18:B3:1880:C:O2'	21:BB:234:ALA:HA	1.92	0.69
18:B3:815:U:HO3'	18:B3:816:G:H5'	1.56	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1855:G:C6	21:BB:150:PRO:CG	2.71	0.69
21:BB:188:TYR:CE1	21:BB:195:TRP:HB2	2.27	0.69
25:BF:178:LEU:HB2	25:BF:180:ILE:HD11	1.73	0.69
22:BC:16:LEU:HB3	22:BC:17:PRO:HA	1.74	0.69
22:BC:88:VAL:HG12	22:BC:104:VAL:CG1	2.20	0.69
28:BI:70:ILE:HD12	28:BI:74:LYS:HG2	1.74	0.69
18:B3:2245:C:O2	18:B3:2256:G:C2	2.45	0.69
26:BG:109:THR:O	26:BG:110:LYS:HG3	1.92	0.69
26:BG:129:TYR:N	26:BG:204:ALA:HB3	2.07	0.69
18:B3:1597:A:H4'	35:BP:94:TRP:CH2	2.27	0.69
20:BA:77:ALA:O	20:BA:82:VAL:HG22	1.91	0.69
18:B3:1676:G:H3'	39:BT:115:PRO:CD	2.01	0.69
18:B3:1447:U:O4	39:BT:73:LYS:HB3	1.92	0.69
10:AJ:75:GLY:C	14:AN:40:GLN:HG2	2.11	0.69
3:AB:119:LEU:HD12	3:AB:141:PRO:C	2.13	0.69
3:AB:119:LEU:HD12	3:AB:141:PRO:O	1.92	0.69
5:AD:72:GLU:CD	5:AD:105:LEU:HD22	2.12	0.69
8:AH:31:LYS:O	8:AH:34:ILE:HG22	1.92	0.69
1:AA:363:A:H1'	12:AL:48:HIS:O	1.92	0.69
27:BH:103:ILE:HG21	27:BH:134:ILE:CG2	2.21	0.69
27:BH:63:LYS:HG2	32:BM:128:LEU:C	1.98	0.69
1:AA:920:U:H5'	1:AA:1080:A:C8	2.25	0.69
35:BP:29:SER:O	35:BP:32:ALA:HB3	1.91	0.69
1:AA:633:G:O3'	16:AQ:94:PRO:CA	2.23	0.69
1:AA:404:U:O2'	5:AD:21:SER:O	2.10	0.69
1:AA:120:A:H1'	1:AA:123:C:H5	1.57	0.69
1:AA:239:U:C6	1:AA:240:C:C5	2.80	0.69
18:B3:1829:A:C2	47:B9:17:TYR:CD1	2.60	0.69
15:AO:86:ASP:O	15:AO:90:LEU:HD13	1.92	0.69
20:BA:215:ARG:H	20:BA:215:ARG:HD2	1.55	0.69
33:BN:127:ARG:CG	33:BN:138:TYR:HB3	2.22	0.69
4:AC:143:ALA:HB2	4:AC:178:GLN:HG2	1.72	0.69
21:BB:154:LYS:H	21:BB:154:LYS:CE	2.05	0.69
6:AE:119:GLU:HG3	6:AE:122:GLY:H	1.58	0.69
1:AA:818:G:C3'	1:AA:819:A:H5''	2.22	0.69
1:AA:1329:A:N6	13:AM:94:ASP:HA	2.04	0.69
1:AA:1221:G:OP2	17:AS:80:MET:N	2.25	0.69
1:AA:1176:A:H3'	9:AI:107:ALA:HB1	1.73	0.69
9:AI:96:VAL:HG11	9:AI:100:SER:CB	2.21	0.69
18:B3:1011:C:P	24:BE:15:ARG:CZ	2.80	0.69
42:B0:85:LEU:CB	42:B0:92:TYR:HB2	2.09	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1315:G:C4'	42:B0:103:LYS:HE2	2.21	0.69
18:B3:35:U:C3'	23:BD:48:ALA:HB3	2.23	0.69
18:B3:518:G:C5'	18:B3:1338:U:C1'	2.69	0.69
18:B3:677:C:H5'	23:BD:232:LEU:O	1.92	0.69
34:BO:123:THR:HG23	34:BO:125:ASP:H	1.56	0.69
18:B3:797:A:H2'	18:B3:798:G:C1'	2.22	0.69
47:B9:56:CYS:H	47:B9:61:LYS:HD3	1.57	0.69
21:BB:96:ASN:H	21:BB:99:ASN:HD22	1.38	0.69
1:AA:538:G:C5'	12:AL:142:LYS:N	2.55	0.69
18:B3:107:U:O2'	44:BX:56:THR:CG2	2.38	0.69
18:B3:2654:C:C1'	22:BC:259:VAL:HG12	1.86	0.69
22:BC:236:LYS:C	22:BC:236:LYS:HD3	2.11	0.69
28:BI:135:ILE:HG21	28:BI:159:PHE:CZ	2.28	0.69
37:BR:121:GLU:OE1	37:BR:124:ASP:HB2	1.92	0.69
18:B3:2136:G:N3	18:B3:2238:A:C2	2.59	0.69
35:BP:94:TRP:HA	35:BP:97:ARG:NH2	2.08	0.69
7:AG:112:ILE:HG13	7:AG:190:ALA:HA	1.75	0.69
18:B3:2333:G:H2'	29:BJ:113:ILE:O	1.91	0.69
29:BJ:44:PRO:HB2	29:BJ:67:HIS:CB	2.23	0.69
1:AA:619:U:H6	5:AD:142:ASN:CB	2.02	0.69
8:AH:26:ILE:HB	8:AH:62:VAL:HG23	1.73	0.69
1:AA:12:U:H5''	1:AA:526:C:C4'	2.13	0.69
1:AA:62:U:H4'	1:AA:386:C:H6	1.53	0.69
2:AT:141:THR:HA	2:AT:481:MET:C	2.12	0.69
18:B3:1993:C:O3'	37:BR:71:LYS:HD2	1.93	0.69
37:BR:60:ALA:H	37:BR:74:MET:CB	2.06	0.69
1:AA:1371:G:OP1	9:AI:13:LYS:HB3	1.92	0.69
27:BH:41:ILE:HG23	32:BM:128:LEU:CD1	2.18	0.69
27:BH:67:ALA:O	27:BH:68:LEU:HD22	1.91	0.69
1:AA:1071:C:OP1	6:AE:90:ARG:HB2	1.85	0.69
18:B3:1380:U:O2	18:B3:1380:U:H2'	1.92	0.69
18:B3:1501:A:H5'	35:BP:37:ARG:HD3	1.72	0.69
18:B3:2436:U:O2'	46:BZ:80:ALA:CA	2.41	0.69
1:AA:1343:G:O5'	9:AI:138:GLN:HA	1.92	0.69
1:AA:404:U:H1'	5:AD:19:TYR:CE2	2.23	0.69
1:AA:924:C:C2'	1:AA:1398:A:H2'	2.21	0.69
1:AA:118:U:H1'	1:AA:122:G:C1'	2.21	0.69
32:BM:101:LEU:HD22	32:BM:101:LEU:O	1.92	0.69
20:BA:53:LEU:HD22	20:BA:189:PHE:CD1	2.26	0.69
18:B3:1751:G:C2'	18:B3:1752:G:H5''	2.22	0.69
20:BA:97:LYS:O	20:BA:100:ILE:HG22	1.92	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:989:C:C5'	1:AA:1013:G:C4	2.69	0.69
17:AS:111:MET:HG3	17:AS:119:PHE:CZ	2.27	0.69
18:B3:841:A:N6	33:BN:132:HIS:C	2.25	0.69
18:B3:539:G:O3'	42:B0:18:LYS:HB2	1.93	0.69
7:AG:107:LEU:H	7:AG:107:LEU:HD23	1.56	0.69
9:AI:51:LEU:CD2	9:AI:58:LYS:HD3	2.21	0.69
10:AJ:103:ILE:O	10:AJ:106:ILE:HG22	1.92	0.69
24:BE:188:GLU:HA	24:BE:198:TYR:HB3	1.74	0.69
33:BN:25:PHE:CG	33:BN:120:GLN:HG2	2.27	0.69
18:B3:677:C:O2	23:BD:259:GLN:OE1	2.03	0.69
18:B3:1347:U:O2'	23:BD:241:ALA:CA	2.41	0.69
47:B9:72:THR:O	47:B9:75:ALA:HB3	1.93	0.69
21:BB:97:VAL:CA	21:BB:165:ILE:HG12	2.22	0.69
21:BB:48:VAL:C	21:BB:56:PRO:HB3	2.13	0.69
18:B3:68:U:OP1	39:BT:59:TYR:CZ	2.45	0.69
1:AA:160:A:O4'	1:AA:344:A:N6	2.24	0.69
22:BC:239:ARG:C	22:BC:240:LYS:HD2	2.13	0.69
18:B3:156:C:H4'	31:BL:164:THR:HB	1.75	0.69
31:BL:102:GLU:CG	31:BL:168:LYS:HE3	2.22	0.69
18:B3:1812:G:H4'	18:B3:2732:U:HO2'	1.56	0.69
35:BP:101:LEU:O	35:BP:105:LEU:HD23	1.91	0.69
35:BP:94:TRP:CE3	35:BP:95:ILE:HD12	2.27	0.69
39:BT:104:VAL:HG11	39:BT:125:LEU:CD1	2.21	0.69
3:AB:166:LYS:HA	3:AB:169:ILE:HG12	1.74	0.69
37:BR:29:SER:O	37:BR:69:LEU:HG	1.92	0.69
9:AI:13:LYS:HE3	9:AI:75:SER:CA	2.23	0.69
27:BH:44:THR:HG21	27:BH:55:VAL:CG1	2.22	0.69
27:BH:7:GLU:CD	27:BH:8:GLN:H	1.95	0.69
1:AA:499:A:O3'	1:AA:500:G:H5'	1.91	0.69
18:B3:2320:U:C2'	46:BZ:3:VAL:HG12	2.13	0.69
15:AO:73:ILE:HD11	15:AO:88:TYR:HB3	1.73	0.69
17:AS:61:ARG:O	17:AS:65:LEU:HD13	1.91	0.69
36:BQ:12:ARG:N	36:BQ:12:ARG:HD2	2.07	0.69
21:BB:142:GLU:HG3	21:BB:144:LYS:CD	2.22	0.69
22:BC:9:ARG:HD2	22:BC:9:ARG:O	1.93	0.69
2:AT:424:ASP:O	2:AT:425:ASP:HB2	1.91	0.69
13:AM:91:ASP:O	13:AM:109:LEU:HD11	1.91	0.69
1:AA:1223:C:H5''	17:AS:100:LYS:HE2	1.73	0.69
18:B3:537:G:O4'	42:B0:21:HIS:CE1	2.45	0.69
19:B4:49:G:P	24:BE:98:ALA:HB3	2.32	0.69
19:B4:120:A:H5'	24:BE:73:VAL:HB	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:104:LYS:HD2	33:BN:106:LEU:CD1	2.16	0.69
18:B3:1304:U:H3'	23:BD:194:ARG:CD	2.15	0.69
18:B3:1334:C:C2'	42:B0:98:HIS:N	2.31	0.69
18:B3:677:C:C4'	23:BD:256:LYS:HG2	2.21	0.69
18:B3:751:U:H4'	23:BD:36:THR:HG23	1.71	0.69
34:BO:108:ALA:O	34:BO:111:ARG:HG3	1.91	0.69
18:B3:1358:A:N9	23:BD:92:MET:HG3	2.07	0.69
18:B3:1855:G:H1	21:BB:150:PRO:CD	2.05	0.69
21:BB:187:LYS:HZ3	21:BB:190:LEU:HD13	1.57	0.69
21:BB:44:VAL:HG13	21:BB:59:LYS:O	1.92	0.69
25:BF:168:ILE:HD13	25:BF:179:SER:HA	1.73	0.69
18:B3:1133:A:C6	18:B3:2501:G:H1'	2.27	0.69
18:B3:2819:C:O3'	22:BC:90:GLY:C	2.26	0.69
22:BC:113:VAL:HG13	22:BC:117:PHE:CD2	2.28	0.69
18:B3:2656:G:O3'	22:BC:19:LYS:HA	1.92	0.69
28:BI:61:SER:HA	28:BI:126:ALA:HB2	1.74	0.69
18:B3:2762:C:O3'	37:BR:16:GLY:HA2	1.93	0.69
22:BC:358:ILE:CG2	38:BS:15:PRO:HG2	2.22	0.69
37:BR:92:PHE:HE1	38:BS:20:LEU:CD2	1.96	0.69
18:B3:183:A:O4'	31:BL:158:ARG:CZ	2.36	0.69
18:B3:2243:C:O2	31:BL:23:ARG:NH2	2.26	0.69
35:BP:137:LEU:HA	35:BP:140:HIS:CE1	2.27	0.69
18:B3:2737:C:N4	35:BP:61:ARG:NH2	2.38	0.69
7:AG:122:VAL:HG23	7:AG:123:LEU:CD1	2.13	0.69
29:BJ:17:VAL:HG22	29:BJ:18:LEU:O	1.93	0.69
20:BA:98:LYS:HE2	20:BA:102:LYS:HZ1	1.57	0.69
18:B3:2557:U:H2'	18:B3:2800:A:H8	1.56	0.69
35:BP:16:VAL:HB	35:BP:20:LYS:CE	2.23	0.69
40:BU:101:PRO:HB3	40:BU:104:LEU:HD21	1.75	0.69
40:BU:67:GLU:OE1	40:BU:82:VAL:HG13	1.91	0.69
18:B3:905:C:H6	41:BV:11:ARG:CZ	2.05	0.69
1:AA:754:C:O5'	15:AO:127:TYR:CE1	2.46	0.69
18:B3:1882:C:OP2	21:BB:199:ARG:CA	2.40	0.69
18:B3:1944:G:OP1	21:BB:217:HIS:HB2	1.91	0.69
32:BM:26:LEU:HD11	32:BM:97:ALA:C	2.12	0.69
30:BK:94:LYS:HG3	30:BK:95:ASP:N	2.07	0.69
1:AA:1488:G:H2'	1:AA:1489:G:C8	2.27	0.69
1:AA:1296:C:H5''	13:AM:52:VAL:O	1.91	0.69
1:AA:1226:C:OP2	13:AM:131:LEU:HD21	1.91	0.69
1:AA:1299:A:H5'	13:AM:57:ARG:HH12	0.82	0.69
42:B0:44:ARG:HB2	42:B0:44:ARG:CZ	2.23	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1249:C:O4'	9:AI:73:HIS:CE1	2.46	0.69
18:B3:2368:A:O5'	24:BE:31:TYR:CD2	2.46	0.69
33:BN:28:THR:HA	33:BN:31:THR:HG22	1.75	0.69
23:BD:160:LYS:CE	23:BD:163:GLU:HG2	2.22	0.69
18:B3:771:G:N2	45:BY:48:TRP:HA	2.07	0.69
18:B3:894:A:H2	23:BD:98:MET:CE	2.03	0.69
18:B3:1285:U:C4'	25:BF:155:ILE:CG2	2.70	0.69
18:B3:2065:C:H5	22:BC:255:HIS:CE1	2.08	0.69
18:B3:2519:C:H1'	28:BI:158:LYS:CA	2.04	0.69
18:B3:2913:A:N3	22:BC:125:LYS:O	2.25	0.69
22:BC:241:THR:CG2	22:BC:247:LYS:HD2	2.23	0.69
26:BG:112:ALA:HB2	26:BG:121:LYS:HG3	1.73	0.69
18:B3:2334:C:C4	29:BJ:114:LYS:HD2	2.26	0.69
39:BT:75:VAL:CG1	39:BT:80:ILE:HG13	2.22	0.69
8:AH:35:LYS:HG3	8:AH:109:ILE:CD1	2.23	0.69
1:AA:860:A:C2'	8:AH:18:LYS:HZ2	2.05	0.69
1:AA:25:C:C1'	12:AL:109:ARG:NH1	2.55	0.69
18:B3:1041:U:H5''	41:BV:18:LYS:CG	2.12	0.69
18:B3:1247:A:N6	32:BM:17:ARG:HH12	1.90	0.69
27:BH:63:LYS:HZ3	32:BM:130:PRO:CB	2.01	0.69
32:BM:15:VAL:HG12	32:BM:40:LEU:HG	1.73	0.69
32:BM:55:ASP:H	32:BM:58:ARG:HB2	1.58	0.69
35:BP:3:LEU:HB3	35:BP:6:GLN:HG2	1.74	0.69
18:B3:2381:C:H1'	46:BZ:10:TYR:HD1	0.90	0.69
40:BU:57:LEU:CD1	40:BU:59:VAL:HG12	2.23	0.69
18:B3:907:A:H4'	18:B3:1328:A:C4'	2.22	0.69
4:AC:105:LYS:HG2	4:AC:183:ILE:CG2	2.21	0.69
22:BC:211:ASN:CB	22:BC:349:ALA:HB3	2.08	0.69
24:BE:199:ILE:HG21	24:BE:219:PHE:O	1.92	0.69
1:AA:1066:C:O2'	1:AA:1067:A:P	2.51	0.69
16:AQ:74:VAL:CG1	16:AQ:83:ILE:HD11	2.22	0.69
1:AA:979:C:H4'	17:AS:80:MET:CA	2.23	0.69
18:B3:540:A:H5''	42:B0:17:PHE:C	2.12	0.69
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.27	0.69
9:AI:30:VAL:HG13	9:AI:38:VAL:CG2	2.19	0.69
19:B4:49:G:O5'	24:BE:158:ARG:CG	2.38	0.69
24:BE:163:LEU:HD23	24:BE:163:LEU:O	1.92	0.69
24:BE:183:TRP:HB3	24:BE:187:THR:HA	1.72	0.69
1:AA:317:G:H21	1:AA:1468:A:H1'	1.58	0.69
18:B3:1370:G:H5'	33:BN:63:ASN:H	1.48	0.69
18:B3:1335:C:OP1	42:B0:100:ILE:HD12	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1349:G:OP1	23:BD:36:THR:CA	2.40	0.69
23:BD:245:ARG:HA	23:BD:245:ARG:NE	2.06	0.69
18:B3:1348:A:C4'	23:BD:38:PHE:CZ	2.71	0.69
45:BY:46:TYR:HD2	45:BY:48:TRP:CE3	2.10	0.69
18:B3:1164:U:P	30:BK:50:THR:HB	2.32	0.69
47:B9:55:THR:HG21	47:B9:62:THR:CA	2.21	0.69
18:B3:107:U:OP2	44:BX:60:GLU:C	2.28	0.69
18:B3:2283:G:H5''	28:BI:114:GLY:C	2.07	0.69
22:BC:310:PHE:H	22:BC:314:GLY:HA2	1.57	0.69
28:BI:104:SER:OG	28:BI:112:GLN:HG2	1.91	0.69
22:BC:70:GLU:HB2	37:BR:88:ARG:HG2	1.64	0.69
26:BG:149:LEU:HD22	26:BG:149:LEU:N	2.08	0.69
31:BL:185:GLY:HA2	31:BL:188:LYS:HA	1.75	0.69
29:BJ:103:PHE:N	29:BJ:122:PHE:HB2	2.08	0.69
29:BJ:32:ALA:H	29:BJ:34:LYS:HE3	1.58	0.69
29:BJ:59:ARG:HD2	29:BJ:62:GLU:CA	2.13	0.69
29:BJ:83:LEU:HD21	29:BJ:90:LEU:CG	2.22	0.69
20:BA:54:LYS:CG	20:BA:156:LYS:CB	2.18	0.69
20:BA:54:LYS:HG2	20:BA:156:LYS:CD	2.21	0.69
1:AA:400:C:O3'	5:AD:77:ILE:CG1	2.39	0.69
6:AE:219:ASN:OD1	8:AH:99:GLY:HA3	1.92	0.69
1:AA:364:A:P	12:AL:50:LYS:CD	2.78	0.69
1:AA:58:C:O2'	1:AA:388:G:C5	2.44	0.69
1:AA:59:A:H4'	1:AA:388:G:C4	2.27	0.69
2:AT:111:PHE:N	2:AT:483:PHE:HB2	1.80	0.69
27:BH:21:LYS:O	27:BH:24:ILE:HD12	1.93	0.69
32:BM:24:LYS:O	32:BM:27:LEU:HB3	1.92	0.69
1:AA:144:G:N1	1:AA:199:G:OP1	2.25	0.69
35:BP:9:LEU:HD22	35:BP:12:SER:CB	2.22	0.69
35:BP:43:LEU:CG	35:BP:49:ILE:HG13	2.02	0.69
43:BW:14:ASN:O	43:BW:19:LEU:HG	1.93	0.69
18:B3:2552:C:O3'	18:B3:2553:A:N3	2.25	0.69
40:BU:39:LEU:CD1	40:BU:43:TYR:HE1	2.05	0.69
41:BV:75:ASP:HA	41:BV:78:TRP:HD1	1.56	0.69
42:B0:61:LYS:O	42:B0:62:LYS:HG3	1.93	0.69
8:AH:81:LYS:CE	8:AH:123:LYS:HD2	2.23	0.69
7:AG:200:ALA:CA	7:AG:210:ILE:HD11	2.22	0.69
25:BF:231:ARG:HB3	25:BF:234:PHE:CD1	2.27	0.69
1:AA:1302:U:O5'	13:AM:54:LEU:HD21	1.80	0.69
18:B3:540:A:C5'	42:B0:18:LYS:N	2.55	0.69
18:B3:539:G:C4	42:B0:50:ILE:HD11	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1249:C:C1'	9:AI:73:HIS:ND1	2.55	0.69
9:AI:97:ASP:CG	9:AI:103:GLU:HB2	2.12	0.69
9:AI:98:GLU:CA	9:AI:105:LYS:HB3	2.20	0.69
24:BE:75:LEU:HB2	24:BE:113:LEU:HG	1.75	0.69
24:BE:22:ARG:HH21	24:BE:27:LYS:HG3	1.57	0.69
36:BQ:43:LYS:HA	36:BQ:58:GLN:CD	2.12	0.69
36:BQ:45:ASN:ND2	36:BQ:48:ILE:HG21	2.08	0.69
33:BN:106:LEU:HB2	33:BN:111:LEU:HD21	1.75	0.69
33:BN:71:GLN:HA	33:BN:74:GLU:O	1.93	0.69
18:B3:672:G:H5'	23:BD:214:ILE:CB	2.20	0.69
23:BD:137:ARG:CD	23:BD:242:HIS:HB3	2.21	0.69
23:BD:192:LYS:HD2	23:BD:193:TYR:N	2.07	0.69
34:BO:115:VAL:HG12	34:BO:116:LYS:H	1.57	0.69
34:BO:81:VAL:HB	34:BO:140:LEU:HD12	1.73	0.69
34:BO:66:ARG:HH12	34:BO:67:ILE:HG12	1.58	0.69
34:BO:62:VAL:HG11	34:BO:87:VAL:HA	1.73	0.69
18:B3:677:C:C5'	23:BD:256:LYS:CE	2.54	0.69
23:BD:115:ASN:O	23:BD:119:TYR:HB2	1.92	0.69
18:B3:1304:U:O2'	23:BD:194:ARG:HB3	1.93	0.69
23:BD:137:ARG:HD2	23:BD:243:LEU:H	1.58	0.69
34:BO:63:SER:HA	34:BO:88:THR:CG2	2.23	0.69
18:B3:120:A:N3	45:BY:16:THR:CG2	2.51	0.69
18:B3:2274:A:O2'	31:BL:79:THR:C	2.31	0.69
18:B3:1939:U:H4'	21:BB:241:ARG:HG2	1.75	0.69
21:BB:189:ARG:HA	21:BB:189:ARG:HE	1.58	0.69
25:BF:158:GLN:O	25:BF:159:ARG:HG3	1.93	0.69
46:BZ:54:LYS:HB2	46:BZ:55:PRO:HD3	1.73	0.69
16:AQ:133:THR:H	16:AQ:135:ARG:HH21	1.40	0.69
1:AA:190(D):U:H3	16:AQ:111:SER:N	1.91	0.69
44:BX:31:LEU:HD21	44:BX:40:SER:CB	2.15	0.69
18:B3:1133:A:N1	18:B3:2501:G:N9	2.41	0.69
18:B3:2847:G:P	22:BC:174:LYS:HZ1	2.14	0.69
22:BC:282:TYR:HD2	22:BC:324:LYS:HB3	1.56	0.69
18:B3:2708:G:OP1	22:BC:64:SER:OG	2.10	0.69
28:BI:89:VAL:HA	28:BI:136:PHE:HB2	1.74	0.69
22:BC:92:VAL:CG2	22:BC:101:LEU:HD21	2.23	0.69
22:BC:218:ALA:HB3	22:BC:329:GLY:O	1.93	0.69
18:B3:2820:A:O4'	22:BC:89:VAL:HB	1.93	0.69
28:BI:103:LEU:CB	28:BI:118:ALA:H	2.05	0.69
18:B3:2734:G:OP1	35:BP:79:LYS:HB2	1.91	0.69
29:BJ:16:LEU:N	29:BJ:70:VAL:HG11	2.08	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:75:ALA:HB1	29:BJ:78:ILE:HD11	1.75	0.69
1:AA:1202:G:H1	10:AJ:74:GLU:CG	2.05	0.69
39:BT:109:VAL:HA	39:BT:123:VAL:HA	1.74	0.69
10:AJ:69:LYS:CA	14:AN:39:ARG:NH1	2.56	0.69
14:AN:37:ILE:HG21	14:AN:40:GLN:HB2	1.73	0.69
1:AA:617:G:O6	5:AD:143:ILE:HD13	1.92	0.69
1:AA:860:A:C3'	8:AH:18:LYS:HZ2	2.06	0.69
1:AA:619:U:H1'	5:AD:132:ARG:H	1.57	0.69
5:AD:96:VAL:O	5:AD:103:ASP:HB3	1.93	0.69
8:AH:52:ILE:HG21	8:AH:61:VAL:HG23	1.75	0.69
1:AA:45:U:C5'	1:AA:307:C:O2'	2.41	0.69
12:AL:87:VAL:HA	12:AL:124:VAL:HG22	1.75	0.69
1:AA:70:G:O2'	1:AA:152:A:N3	2.25	0.69
41:BV:31:ARG:CZ	41:BV:31:ARG:HA	2.23	0.69
18:B3:2579:G:H4'	18:B3:2680:A:C1'	2.22	0.69
18:B3:1118:A:H5'	18:B3:1228:C:C6	2.25	0.69
1:AA:712:A:H61	11:AK:124:SER:HA	1.55	0.69
46:BZ:20:THR:HG22	46:BZ:21:GLN:H	1.56	0.69
40:BU:27:ARG:CA	40:BU:78:PHE:HE2	2.04	0.69
40:BU:31:LEU:HD12	40:BU:74:TYR:CG	2.28	0.69
40:BU:86:THR:HG21	40:BU:97:ILE:HG12	1.75	0.69
1:AA:1342:C:O3'	9:AI:139:LYS:HG2	1.93	0.69
1:AA:293:G:C5'	1:AA:610:G:N3	2.49	0.69
18:B3:730:G:H4'	41:BV:132:LEU:HD11	1.74	0.69
41:BV:135:GLU:HB3	41:BV:136:LYS:CE	2.22	0.69
1:AA:924:C:C6	1:AA:1398:A:N1	2.61	0.69
18:B3:220:C:N3	41:BV:54:LYS:NZ	2.40	0.69
3:AB:36:VAL:CG2	3:AB:148:LEU:HD13	2.23	0.69
15:AO:74:LEU:HA	15:AO:89:TYR:HE1	1.57	0.69
1:AA:281:G:O2'	1:AA:282:A:OP2	2.11	0.69
32:BM:84:ARG:HD2	32:BM:84:ARG:N	2.06	0.69
32:BM:84:ARG:NH2	32:BM:87:VAL:HG11	2.07	0.69
32:BM:26:LEU:CD2	32:BM:97:ALA:HB1	2.23	0.69
23:BD:9:SER:H	23:BD:15:THR:CG2	2.06	0.69
7:AG:199:ASN:CB	7:AG:207:SER:HB2	2.22	0.69
23:BD:219:ARG:NH2	23:BD:220:ASN:HA	2.07	0.69
1:AA:701:C:H5'	1:AA:703:G:O4'	1.92	0.69
1:AA:1301:U:C4'	13:AM:29:VAL:C	2.59	0.69
13:AM:26:ILE:C	13:AM:57:ARG:HD3	2.13	0.69
17:AS:107:ILE:HA	17:AS:111:MET:SD	2.33	0.69
1:AA:979:C:O2	17:AS:56:PHE:CD2	2.46	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:51:LEU:HD11	9:AI:84:ILE:HD11	1.74	0.69
24:BE:15:ARG:HA	24:BE:15:ARG:HE	1.57	0.69
19:B4:26:C:OP1	24:BE:81:HIS:ND1	2.26	0.69
36:BQ:74:VAL:O	36:BQ:75:ILE:HG22	1.92	0.69
18:B3:676:C:O2	23:BD:231:SER:HA	1.92	0.69
34:BO:62:VAL:CG1	34:BO:87:VAL:HA	2.22	0.69
30:BK:125:LEU:O	30:BK:128:VAL:HG22	1.93	0.69
18:B3:944:G:C1'	25:BF:100:LYS:HZ3	2.03	0.69
25:BF:183:LEU:O	25:BF:187:ILE:HG12	1.92	0.69
18:B3:2300:A:N3	36:BQ:10:ARG:NH1	2.40	0.69
18:B3:2526:C:C4'	18:B3:2605:G:C4'	2.69	0.69
39:BT:59:TYR:OH	44:BX:55:LEU:CD1	2.33	0.69
22:BC:185:GLY:H	22:BC:190:LYS:CD	2.05	0.69
22:BC:246:ARG:NH1	22:BC:248:VAL:HA	2.07	0.69
22:BC:302:LYS:HB2	22:BC:320:PHE:CE2	2.28	0.69
18:B3:2818:A:O5'	22:BC:99:ARG:HB3	1.93	0.69
28:BI:36:LEU:HG	28:BI:37:GLY:N	2.08	0.69
37:BR:80:ARG:HB2	37:BR:99:ALA:HB2	1.75	0.69
26:BG:198:ALA:CA	26:BG:199:LEU:HD22	2.23	0.69
31:BL:187:ARG:HH11	31:BL:188:LYS:N	1.91	0.69
18:B3:392:U:O4'	31:BL:195:THR:HG23	1.93	0.69
18:B3:1805:G:C6	18:B3:2883:A:N3	2.60	0.69
18:B3:1676:G:H8	39:BT:113:VAL:HG22	1.58	0.69
1:AA:523:A:C2	12:AL:115:GLY:HA3	2.24	0.69
2:AT:27:HIS:HD2	18:B3:2698:G:OP1	1.76	0.69
27:BH:160:ASP:HA	27:BH:163:GLN:CG	2.23	0.69
1:AA:1086:U:O3'	1:AA:1389:C:C4'	2.41	0.69
43:BW:32:VAL:O	43:BW:35:ILE:HG13	1.91	0.69
43:BW:11:TYR:HE1	43:BW:72:LEU:HB3	1.56	0.69
1:AA:1075:C:H5"	3:AB:103:PRO:HD2	0.80	0.69
18:B3:2437:A:H5"	46:BZ:78:THR:OG1	1.93	0.69
46:BZ:76:CYS:SG	46:BZ:78:THR:HG22	2.33	0.69
41:BV:116:ARG:HD3	41:BV:116:ARG:O	1.93	0.69
41:BV:74:LEU:CD2	41:BV:117:ILE:HG21	2.22	0.69
1:AA:352:C:H4'	1:AA:354:G:OP1	1.93	0.69
11:AK:38:ILE:HD13	11:AK:69:LYS:HB3	1.74	0.69
21:BB:2:ARG:HG3	21:BB:206:VAL:CG2	2.20	0.69
18:B3:138:U:H6	18:B3:140:G:H1	1.39	0.69
30:BK:14:TYR:O	30:BK:15:LEU:HD23	1.93	0.69
3:AB:109:TYR:CE1	3:AB:114:PHE:HB3	2.27	0.69
1:AA:958:A:H2	17:AS:102:PHE:HD1	1.39	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:29:LYS:HD3	9:AI:32:GLY:HA2	1.74	0.69
24:BE:200:PHE:HD1	24:BE:202:GLY:N	1.91	0.69
42:B0:101:SER:HB2	42:B0:105:ARG:HG2	1.75	0.69
34:BO:87:VAL:CG1	34:BO:106:PHE:HB3	2.23	0.69
23:BD:75:ARG:HD3	23:BD:80:GLY:CA	2.23	0.69
18:B3:473:A:C5'	45:BY:48:TRP:CE2	2.68	0.69
21:BB:89:ALA:HA	21:BB:100:VAL:CG2	2.23	0.69
18:B3:1098:A:OP2	25:BF:216:PRO:CA	2.41	0.69
25:BF:83:VAL:CG2	25:BF:136:GLY:H	2.03	0.69
18:B3:2655:U:H6	22:BC:261:TRP:NE1	1.90	0.69
18:B3:2656:G:H5'	22:BC:19:LYS:NZ	2.08	0.69
28:BI:52:LEU:HD23	28:BI:134:ILE:CB	2.20	0.69
37:BR:95:PHE:CD1	38:BS:21:PHE:CB	2.73	0.69
18:B3:2135:A:C2	18:B3:2239:C:N3	2.54	0.69
26:BG:214:VAL:O	26:BG:217:ILE:HG22	1.92	0.69
18:B3:922:A:P	41:BV:41:ARG:NE	2.63	0.69
18:B3:2349:G:C5'	29:BJ:15:LYS:HZ3	2.05	0.69
1:AA:860:A:C5'	3:AB:133:LYS:HZ2	2.04	0.69
27:BH:20:ILE:HG13	27:BH:25:VAL:N	2.05	0.69
27:BH:24:ILE:O	27:BH:25:VAL:HG12	1.92	0.69
27:BH:63:LYS:CE	32:BM:129:LYS:CB	2.53	0.69
32:BM:72:PHE:HB3	32:BM:77:ARG:CB	2.22	0.69
1:AA:1404:C:H2'	1:AA:1519:A:C5'	2.22	0.69
40:BU:57:LEU:CA	40:BU:67:GLU:HG3	2.23	0.69
40:BU:66:GLN:O	40:BU:67:GLU:HG2	1.92	0.69
41:BV:77:LEU:H	41:BV:77:LEU:HD12	1.57	0.69
41:BV:81:ILE:HG23	41:BV:82:PRO:HA	1.74	0.69
7:AG:200:ALA:HA	7:AG:210:ILE:CD1	2.22	0.69
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.58	0.69
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.27	0.69
18:B3:95:A:H5''	18:B3:96:A:H3'	1.74	0.69
18:B3:1688:G:H1'	45:BY:5:PRO:HG3	1.74	0.68
1:AA:1176:A:C2'	9:AI:107:ALA:CA	2.62	0.68
9:AI:48:TYR:HD1	9:AI:84:ILE:HD13	1.57	0.68
18:B3:12:U:H2'	18:B3:13:G:H5'	1.75	0.68
33:BN:66:ILE:HB	33:BN:79:LYS:HD2	1.74	0.68
33:BN:73:LYS:H	33:BN:73:LYS:HD2	1.57	0.68
18:B3:1315:G:N2	42:B0:107:VAL:HG11	2.04	0.68
18:B3:449:A:H5''	18:B3:1306:U:C6	2.26	0.68
23:BD:118:ARG:HA	23:BD:121:THR:OG1	1.93	0.68
18:B3:1305:C:OP2	23:BD:191:GLY:CA	2.41	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1350:U:H4'	23:BD:46:ARG:H	1.57	0.68
21:BB:180:LYS:HE2	21:BB:181:ALA:HB2	1.74	0.68
21:BB:50:ASP:HB2	21:BB:53:ARG:CG	2.23	0.68
21:BB:97:VAL:CA	21:BB:165:ILE:HG21	2.23	0.68
1:AA:190(D):U:H3'	16:AQ:137:ASN:HA	1.68	0.68
1:AA:131:C:P	16:AQ:128:ARG:HB3	2.33	0.68
22:BC:88:VAL:CG1	22:BC:104:VAL:HG11	2.19	0.68
37:BR:92:PHE:HE1	38:BS:20:LEU:CD1	2.03	0.68
18:B3:263:U:O4'	26:BG:161:LEU:HD12	1.93	0.68
31:BL:98:ARG:HA	31:BL:129:PHE:HE2	1.57	0.68
18:B3:1705:C:H4'	35:BP:62:THR:CG2	2.21	0.68
20:BA:96:ASN:OD1	20:BA:99:LEU:HB2	1.93	0.68
39:BT:114:ARG:HB3	39:BT:116:ASN:N	2.03	0.68
1:AA:621:A:N7	5:AD:143:ILE:HG13	2.08	0.68
2:AT:108:HIS:ND1	2:AT:540:ILE:CB	2.56	0.68
37:BR:21:ALA:HB3	37:BR:36:ILE:HD12	1.73	0.68
27:BH:10:ILE:H	27:BH:54:LYS:HB2	1.59	0.68
27:BH:42:ASP:N	32:BM:125:VAL:N	2.40	0.68
1:AA:678:U:H1'	11:AK:125:THR:HG22	1.72	0.68
40:BU:100:HIS:CB	40:BU:103:LYS:HG3	2.22	0.68
1:AA:496:A:H4'	1:AA:497:A:OP1	1.92	0.68
41:BV:111:ILE:O	41:BV:129:VAL:HG23	1.93	0.68
41:BV:129:VAL:HG22	41:BV:133:ALA:HB3	1.75	0.68
18:B3:219:G:H3'	18:B3:220:C:H5''	1.75	0.68
6:AE:96:ARG:HE	6:AE:116:THR:CG2	2.06	0.68
4:AC:105:LYS:HG3	4:AC:172:ARG:CB	2.23	0.68
4:AC:159:SER:HB2	4:AC:167:ILE:CG1	2.23	0.68
36:BQ:39:ILE:HD11	36:BQ:99:SER:HB3	1.75	0.68
1:AA:328:C:H4'	1:AA:329:A:O5'	1.93	0.68
13:AM:88:ARG:NH2	13:AM:115:ARG:NH1	2.41	0.68
13:AM:117:LYS:HE2	13:AM:127:HIS:HB3	1.74	0.68
19:B4:34:A:C2	24:BE:185:PHE:HA	2.29	0.68
18:B3:26:U:C2'	18:B3:1319:G:O2'	2.40	0.68
18:B3:664:U:P	23:BD:115:ASN:HA	2.32	0.68
18:B3:1343:C:C2'	23:BD:188:ALA:HB1	2.21	0.68
18:B3:672:G:P	23:BD:214:ILE:HG23	2.33	0.68
47:B9:54:TRP:O	47:B9:55:THR:HG23	1.92	0.68
21:BB:195:TRP:CZ3	21:BB:197:LYS:HB3	2.27	0.68
18:B3:487:G:C3'	40:BU:90:VAL:CB	2.56	0.68
18:B3:1206:C:O2'	18:B3:1207:A:C4'	2.41	0.68
44:BX:16:GLN:O	44:BX:19:SER:HB3	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2673:U:C1'	22:BC:98:LEU:HD23	2.23	0.68
28:BI:6:ALA:HB1	28:BI:10:ARG:HE	1.58	0.68
22:BC:359:ASP:HA	38:BS:14:TYR:CB	2.23	0.68
38:BS:23:ARG:HG3	38:BS:28:ILE:CG1	2.22	0.68
31:BL:102:GLU:HG2	31:BL:168:LYS:CE	2.23	0.68
31:BL:22:GLN:NE2	31:BL:25:ARG:HG2	2.08	0.68
31:BL:64:ARG:HD2	31:BL:64:ARG:H	1.57	0.68
18:B3:402:U:H5''	31:BL:97:LEU:HD21	1.75	0.68
18:B3:2165:G:C5	20:BA:60:ARG:HD2	2.27	0.68
4:AC:45:THR:O	4:AC:83:ILE:HG23	1.94	0.68
5:AD:131:GLN:HG2	5:AD:133:HIS:NE2	2.07	0.68
18:B3:1383:U:C2'	43:BW:32:VAL:HG11	2.23	0.68
18:B3:1396:C:O2'	35:BP:2:ASN:HB3	1.92	0.68
41:BV:110:LYS:H	41:BV:110:LYS:CE	2.03	0.68
41:BV:113:GLY:HA3	41:BV:133:ALA:HA	1.75	0.68
1:AA:580:U:H5'	15:AO:112:PHE:CE1	2.29	0.68
31:BL:177:HIS:O	31:BL:181:ASN:HB2	1.91	0.68
18:B3:2433:A:H5''	46:BZ:36:ALA:N	2.08	0.68
23:BD:13:GLU:O	23:BD:15:THR:HG23	1.93	0.68
38:BS:31:PHE:CE1	38:BS:37:ALA:HA	2.28	0.68
29:BJ:148:GLY:HA3	29:BJ:151:HIS:CE1	2.27	0.68
18:B3:1837:G:O6	45:BY:2:LYS:HB3	1.89	0.68
42:B0:42:VAL:HA	42:B0:49:ASN:ND2	2.07	0.68
18:B3:538:C:H2'	42:B0:21:HIS:CG	2.29	0.68
19:B4:14:G:H8	19:B4:14:G:H5'	1.58	0.68
18:B3:29:C:O3'	18:B3:1342:C:OP1	2.12	0.68
18:B3:676:C:C6	23:BD:233:ASN:OD1	2.46	0.68
18:B3:1167:G:OP1	30:BK:45:ASP:C	2.32	0.68
1:AA:190(D):U:O2	16:AQ:111:SER:CB	2.41	0.68
18:B3:71:G:O2'	44:BX:48:ARG:NH1	2.26	0.68
18:B3:1736:A:OP1	22:BC:243:ARG:CB	2.41	0.68
22:BC:116:ARG:HH11	22:BC:176:HIS:HB3	1.56	0.68
18:B3:1006:A:C5'	28:BI:16:PRO:HB3	2.17	0.68
28:BI:59:GLN:HA	28:BI:128:ARG:HA	1.74	0.68
28:BI:69:ARG:NH1	28:BI:70:ILE:HG23	2.07	0.68
31:BL:138:HIS:HB3	31:BL:141:ILE:CG2	2.23	0.68
31:BL:42:THR:HG22	31:BL:43:ARG:HH11	1.57	0.68
18:B3:1804:A:O3'	18:B3:2875:A:O2'	2.10	0.68
18:B3:2334:C:H5	29:BJ:114:LYS:HZ3	1.41	0.68
29:BJ:15:LYS:HA	29:BJ:70:VAL:CG2	2.16	0.68
29:BJ:162:PHE:HD1	29:BJ:166:TYR:CE2	2.09	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:16:LEU:H	29:BJ:16:LEU:HD13	1.56	0.68
18:B3:1507:C:OP1	39:BT:122:TYR:OH	2.10	0.68
3:AB:168:SER:O	3:AB:172:ILE:HD12	1.94	0.68
2:AT:465:LYS:HG2	2:AT:514:SER:OG	1.91	0.68
2:AT:536:LEU:CB	18:B3:2698:G:HO2'	2.03	0.68
27:BH:103:ILE:CG2	27:BH:134:ILE:HG21	2.23	0.68
46:BZ:11:CYS:SG	46:BZ:73:CYS:HB3	2.33	0.68
40:BU:112:ASP:HB3	40:BU:113:LYS:CE	2.23	0.68
1:AA:1343:G:H5'	9:AI:138:GLN:N	2.08	0.68
1:AA:13:U:O5'	1:AA:914:A:OP2	2.11	0.68
18:B3:698:A:OP1	41:BV:113:GLY:O	2.11	0.68
41:BV:95:LYS:HZ3	41:BV:96:GLU:H	1.41	0.68
18:B3:1268:C:H5'	42:B0:61:LYS:CB	2.22	0.68
1:AA:754:C:O4'	15:AO:127:TYR:CG	2.46	0.68
1:AA:1115:C:H4'	10:AJ:64:LYS:HZ1	1.59	0.68
4:AC:105:LYS:HD2	4:AC:183:ILE:HB	1.75	0.68
18:B3:1681:G:H4'	18:B3:1682:A:C8	2.27	0.68
18:B3:1209:C:H2'	18:B3:1210:G:H8	1.57	0.68
18:B3:2505:G:O2'	18:B3:2506:A:H5'	1.91	0.68
40:BU:89:LYS:HE2	40:BU:93:ALA:C	2.13	0.68
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.29	0.68
24:BE:140:ARG:HB2	24:BE:141:PRO:HD3	1.73	0.68
24:BE:49:TYR:CE2	24:BE:144:VAL:HG22	2.28	0.68
36:BQ:75:ILE:HB	36:BQ:89:LEU:CA	2.24	0.68
33:BN:115:HIS:H	33:BN:148:VAL:HB	1.59	0.68
18:B3:1313:A:OP1	42:B0:105:ARG:NE	2.27	0.68
18:B3:1343:C:C2	23:BD:188:ALA:N	2.61	0.68
18:B3:1349:G:N3	23:BD:42:ASN:OD1	2.16	0.68
18:B3:517:U:O2'	18:B3:1339:G:H1'	1.92	0.68
23:BD:133:LEU:HD21	23:BD:243:LEU:HG	1.75	0.68
23:BD:191:GLY:HA3	23:BD:197:ARG:HD2	1.75	0.68
18:B3:471:G:HO2'	45:BY:34:SER:HG	1.01	0.68
25:BF:152:PHE:N	25:BF:162:LEU:HG	2.08	0.68
1:AA:190(F):G:N3	1:AA:265:G:OP2	2.26	0.68
1:AA:190(D):U:O2'	16:AQ:109:HIS:O	2.11	0.68
18:B3:2826:G:C1'	22:BC:124:SER:H	2.06	0.68
22:BC:316:ILE:CD1	22:BC:320:PHE:HE1	2.07	0.68
22:BC:38:LYS:HB2	22:BC:39:PRO:C	2.14	0.68
28:BI:18:PRO:HG3	28:BI:94:PHE:HD2	1.59	0.68
37:BR:114:ILE:HD11	37:BR:133:SER:CA	2.22	0.68
22:BC:359:ASP:CA	38:BS:14:TYR:HB3	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:49:PHE:HD2	20:BA:193:LEU:CD2	2.05	0.68
3:AB:119:LEU:HG	3:AB:120:VAL:N	2.08	0.68
5:AD:164:PHE:CZ	5:AD:183:ALA:HB1	2.28	0.68
1:AA:59:A:H5'	1:AA:388:G:N7	1.90	0.68
27:BH:97:PHE:CE2	27:BH:119:GLY:HA3	2.27	0.68
32:BM:17:ARG:CB	32:BM:121:GLN:HG2	2.21	0.68
35:BP:43:LEU:O	35:BP:48:THR:HG22	1.92	0.68
43:BW:9:ARG:HH21	43:BW:74:ILE:HB	1.58	0.68
18:B3:905:C:C2	18:B3:1330:A:C4	2.74	0.68
41:BV:81:ILE:CG2	41:BV:95:LYS:HD2	2.21	0.68
41:BV:97:THR:HG21	41:BV:124:VAL:CA	2.23	0.68
1:AA:1503:A:C2'	1:AA:1507:A:C5'	2.69	0.68
7:AG:84:ALA:HB3	7:AG:89:ILE:HG13	1.75	0.68
38:BS:5:ILE:H	38:BS:5:ILE:HD13	1.57	0.68
5:AD:60:LEU:CD2	5:AD:64:GLU:HG3	2.24	0.68
1:AA:1219:U:C4'	17:AS:58:LYS:O	2.19	0.68
9:AI:97:ASP:CB	9:AI:103:GLU:H	1.97	0.68
10:AJ:61:LYS:HE2	10:AJ:86:ILE:HB	1.75	0.68
24:BE:64:ILE:HG21	24:BE:109:THR:OG1	1.92	0.68
33:BN:66:ILE:HB	33:BN:79:LYS:HZ2	1.57	0.68
18:B3:28:G:OP1	18:B3:1318:A:H4'	1.93	0.68
18:B3:2274:A:C2'	31:BL:80:TYR:HD2	2.06	0.68
30:BK:125:LEU:HD13	30:BK:129:THR:HG23	1.76	0.68
21:BB:182:GLY:HA2	21:BB:185:PHE:CD1	2.28	0.68
21:BB:47:ILE:CD1	47:B9:53:ILE:CG1	2.71	0.68
22:BC:231:ARG:HB3	22:BC:232:TRP:CE3	2.28	0.68
18:B3:2308:U:HO2'	28:BI:115:MET:HB3	1.56	0.68
31:BL:163:LEU:CD1	31:BL:165:ALA:H	2.05	0.68
18:B3:2123:A:C4'	31:BL:88:VAL:HG21	2.23	0.68
18:B3:1814:G:P	18:B3:2733:U:C2	2.82	0.68
7:AG:112:ILE:CG1	7:AG:190:ALA:HA	2.23	0.68
3:AB:22:HIS:CD2	3:AB:172:ILE:HD11	2.29	0.68
37:BR:32:ARG:HG2	37:BR:33:ASN:N	2.07	0.68
27:BH:20:ILE:HG23	27:BH:47:LYS:HE3	1.76	0.68
1:AA:676:A:C3'	11:AK:121:PRO:HD2	2.23	0.68
43:BW:61:ARG:CD	43:BW:65:GLY:HA3	2.23	0.68
43:BW:9:ARG:NH2	43:BW:72:LEU:HD21	2.08	0.68
46:BZ:8:LYS:O	46:BZ:21:GLN:HA	1.94	0.68
1:AA:915:A:H2'	1:AA:916:G:H5'	1.76	0.68
18:B3:906:C:C5	18:B3:1329:A:C4	2.74	0.68
18:B3:2434:A:P	46:BZ:35:PHE:CB	2.81	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:90:THR:HG22	11:AK:92:THR:H	1.57	0.68
4:AC:137:VAL:CB	4:AC:149:MET:HG2	2.20	0.68
20:BA:215:ARG:N	20:BA:215:ARG:HH11	1.90	0.68
1:AA:686:U:HO2'	1:AA:687:A:H8	1.41	0.68
1:AA:939:G:H2'	1:AA:940:C:C6	2.27	0.68
18:B3:1819:G:H2'	18:B3:1820:G:H4'	1.74	0.68
1:AA:959:A:H2'	17:AS:100:LYS:HA	1.75	0.68
1:AA:987:G:C6	17:AS:77:ARG:HD3	2.28	0.68
1:AA:1249:C:O2'	9:AI:72:GLY:C	2.32	0.68
19:B4:49:G:O3'	24:BE:95:TRP:C	2.30	0.68
18:B3:524:A:C5'	33:BN:29:ARG:HH21	2.06	0.68
33:BN:84:ALA:HB1	33:BN:85:LYS:HZ2	1.59	0.68
23:BD:128:THR:CG2	23:BD:247:VAL:HG21	2.24	0.68
34:BO:42:ALA:HB3	34:BO:134:GLY:HA3	1.75	0.68
34:BO:63:SER:N	34:BO:88:THR:HG22	2.07	0.68
34:BO:65:SER:HB3	34:BO:91:ALA:HB2	1.76	0.68
23:BD:75:ARG:CG	23:BD:80:GLY:HA2	2.23	0.68
45:BY:15:HIS:H	45:BY:27:HIS:HA	1.59	0.68
18:B3:1166:G:O5'	30:BK:48:LYS:CE	2.42	0.68
18:B3:1166:G:O5'	30:BK:48:LYS:HE2	1.93	0.68
18:B3:1875:A:O5'	21:BB:150:PRO:CG	2.42	0.68
21:BB:19:THR:O	21:BB:22:ARG:HD2	1.94	0.68
25:BF:123:LEU:O	25:BF:123:LEU:HD13	1.93	0.68
25:BF:177:ILE:HG23	25:BF:178:LEU:N	2.09	0.68
22:BC:317:LYS:O	22:BC:317:LYS:HD3	1.92	0.68
28:BI:31:ILE:HA	28:BI:66:GLU:HB2	1.75	0.68
26:BG:159:ILE:HD13	31:BL:40:ARG:NH1	2.07	0.68
31:BL:45:ASP:O	31:BL:49:ARG:HB2	1.93	0.68
31:BL:64:ARG:N	31:BL:64:ARG:HD2	2.07	0.68
38:BS:52:THR:HG22	38:BS:54:LEU:H	1.59	0.68
20:BA:65:ILE:HD11	20:BA:151:VAL:HG23	1.75	0.68
20:BA:51:GLY:O	20:BA:54:LYS:CB	2.40	0.68
1:AA:618:C:C2'	5:AD:142:ASN:OD1	2.40	0.68
1:AA:68:G:C8	1:AA:70:G:H3'	2.29	0.68
27:BH:107:ASP:CA	27:BH:112:ILE:HG12	2.23	0.68
18:B3:2407:G:H21	46:BZ:19:HIS:CE1	2.11	0.68
18:B3:2457:U:C3'	46:BZ:83:THR:HA	2.23	0.68
2:AT:737:GLU:O	18:B3:1199:A:C6	2.47	0.68
40:BU:14:LYS:CE	40:BU:15:ALA:H	2.06	0.68
18:B3:2251:G:H2'	18:B3:2252:A:H8	1.58	0.68
21:BB:208:HIS:HB2	21:BB:209:PRO:O	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1529:G:C4'	21:BB:69:ARG:HH11	2.03	0.68
32:BM:95:LYS:CB	32:BM:98:LEU:HD23	2.23	0.68
18:B3:2581:U:C4'	18:B3:2600:A:N1	2.57	0.68
20:BA:195:LYS:O	20:BA:195:LYS:HD2	1.93	0.68
1:AA:1064:G:C4'	1:AA:1065:U:H5'	2.24	0.68
1:AA:1224:G:C2	13:AM:137:HIS:NE2	2.48	0.68
1:AA:1225:A:C8	17:AS:100:LYS:CE	2.77	0.68
18:B3:844:A:OP2	33:BN:131:ALA:N	2.21	0.68
18:B3:538:C:H2'	42:B0:21:HIS:ND1	2.09	0.68
18:B3:617:C:N3	42:B0:49:ASN:N	2.32	0.68
1:AA:1128:C:H2'	1:AA:1129:C:H5''	1.74	0.68
1:AA:1148:U:H5''	9:AI:9:PHE:CE2	2.27	0.68
19:B4:6:C:H1'	24:BE:72:ASP:OD1	1.94	0.68
24:BE:110:LEU:HG	24:BE:171:LEU:CB	2.19	0.68
24:BE:111:GLN:H	24:BE:115:LEU:CG	2.06	0.68
24:BE:55:PHE:CD2	24:BE:60:ILE:HD12	2.29	0.68
18:B3:1370:G:N9	33:BN:62:PHE:CE1	1.91	0.68
33:BN:20:TYR:CB	33:BN:142:PRO:HB2	2.18	0.68
18:B3:2050:G:O4'	33:BN:82:TRP:CE3	2.46	0.68
18:B3:553:G:O2'	18:B3:554:G:H5'	1.94	0.68
18:B3:672:G:C4'	23:BD:214:ILE:HG13	2.24	0.68
34:BO:79:LYS:N	34:BO:79:LYS:HD3	2.09	0.68
31:BL:86:GLN:CD	31:BL:87:GLY:H	1.97	0.68
45:BY:28:VAL:C	45:BY:30:LYS:HE2	2.13	0.68
21:BB:172:GLY:N	47:B9:67:ALA:CB	2.57	0.68
21:BB:47:ILE:HG22	21:BB:58:ALA:HB2	1.75	0.68
25:BF:106:ARG:HG3	25:BF:202:TRP:HB2	1.75	0.68
16:AQ:70:LEU:HD13	16:AQ:87:ARG:NH1	2.08	0.68
1:AA:255:G:H4'	16:AQ:80:HIS:C	2.14	0.68
18:B3:68:U:H5'	44:BX:51:ILE:CD1	2.24	0.68
22:BC:15:PHE:C	22:BC:16:LEU:HD12	2.14	0.68
31:BL:25:ARG:HD2	31:BL:26:VAL:CG2	2.23	0.68
18:B3:1714:C:H5'	18:B3:2745:C:H1'	1.74	0.68
18:B3:1706:G:P	35:BP:65:HIS:HD2	2.09	0.68
38:BS:47:ARG:CB	38:BS:54:LEU:HD22	2.20	0.68
29:BJ:162:PHE:CD1	29:BJ:166:TYR:HE2	2.09	0.68
20:BA:60:ARG:HD3	20:BA:61:PRO:HD3	1.76	0.68
18:B3:1448:A:OP2	39:BT:112:LEU:HD13	1.92	0.68
5:AD:132:ARG:HB3	5:AD:140:ILE:CD1	2.23	0.68
8:AH:75:SER:HB3	8:AH:76:PRO:HD3	1.75	0.68
1:AA:69:G:OP2	1:AA:172:A:H2'	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:114:GLU:CG	2:AT:537:HIS:HE1	2.05	0.68
1:AA:1368:G:O2'	1:AA:1369:C:H5'	1.93	0.68
18:B3:2780:C:O2'	27:BH:159:ALA:HB2	1.82	0.68
35:BP:51:LYS:HG3	35:BP:52:LYS:N	2.09	0.68
43:BW:55:ASN:HA	43:BW:58:ILE:HG22	1.75	0.68
40:BU:70:ILE:HD11	40:BU:80:VAL:CG1	2.20	0.68
41:BV:69:LYS:HG2	41:BV:70:PRO:HA	1.75	0.68
40:BU:14:LYS:HE2	40:BU:14:LYS:HA	1.76	0.68
46:BZ:37:GLN:CG	46:BZ:40:ARG:HE	2.05	0.68
4:AC:101:ALA:N	4:AC:185:VAL:HG21	2.09	0.68
32:BM:88:SER:O	32:BM:94:GLY:HA3	1.94	0.68
3:AB:58:LEU:HD12	3:AB:61:ARG:NH1	2.07	0.68
21:BB:220:LYS:HB2	21:BB:220:LYS:HZ3	1.59	0.68
26:BG:183:ALA:HA	26:BG:194:SER:CB	2.24	0.68
13:AM:26:ILE:HG12	13:AM:27:LYS:H	1.59	0.68
1:AA:1302:U:P	13:AM:54:LEU:HD23	2.32	0.68
1:AA:1318:A:C1'	17:AS:54:ALA:HB1	2.14	0.68
17:AS:85:ILE:HG12	17:AS:112:LEU:O	1.94	0.68
24:BE:55:PHE:HE2	24:BE:158:ARG:HB2	1.57	0.68
1:AA:320:C:C1'	1:AA:1435:G:H2'	2.10	0.68
33:BN:17:ARG:HD2	33:BN:93:LEU:HD13	1.75	0.68
18:B3:710:G:OP1	34:BO:42:ALA:CA	2.41	0.68
23:BD:163:GLU:HA	23:BD:163:GLU:OE1	1.92	0.68
23:BD:181:LEU:HB2	23:BD:202:ARG:CA	2.24	0.68
34:BO:130:ARG:HG2	34:BO:131:ALA:C	2.14	0.68
34:BO:41:ASP:HB2	34:BO:133:LYS:CG	2.12	0.68
34:BO:89:ASP:HB3	34:BO:110:ALA:N	2.09	0.68
18:B3:51:G:C4'	45:BY:20:ARG:HB3	2.23	0.68
21:BB:111:ILE:HG23	21:BB:132:TYR:CB	2.24	0.68
21:BB:115:VAL:HA	21:BB:162:ARG:NH1	2.08	0.68
18:B3:945:U:H5'	25:BF:128:LEU:HD12	1.74	0.68
25:BF:157:LYS:O	25:BF:160:VAL:HG22	1.93	0.68
22:BC:221:LYS:HG2	22:BC:331:ARG:CD	2.24	0.68
37:BR:95:PHE:CG	38:BS:21:PHE:HB3	2.28	0.68
18:B3:2709:G:C3'	37:BR:9:THR:H	2.07	0.68
18:B3:2238:A:O2'	18:B3:2239:C:H5'	1.93	0.68
18:B3:1469:C:H3'	31:BL:71:LYS:NZ	2.09	0.68
18:B3:2334:C:H1'	29:BJ:114:LYS:H	1.58	0.68
29:BJ:13:ILE:CG2	29:BJ:162:PHE:HE2	2.06	0.68
18:B3:2347:C:C2	29:BJ:66:VAL:HG13	2.24	0.68
29:BJ:77:GLU:H	29:BJ:80:GLU:HG3	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2214:A:N9	20:BA:106:LYS:HD2	2.08	0.68
20:BA:26:ARG:CG	20:BA:210:MET:HG3	2.22	0.68
18:B3:1226:G:OP1	18:B3:1246:A:N6	2.26	0.68
18:B3:1227:C:O4'	32:BM:132:ARG:HH22	1.09	0.68
32:BM:45:GLU:HG2	32:BM:133:LYS:O	1.94	0.68
32:BM:45:GLU:CG	32:BM:133:LYS:HG2	2.24	0.68
35:BP:24:ASP:HB3	35:BP:27:GLU:H	1.59	0.68
18:B3:2457:U:H5''	46:BZ:83:THR:HG22	1.75	0.68
1:AA:1499:A:P	1:AA:1521:G:OP1	2.51	0.68
40:BU:30:LEU:HD22	40:BU:78:PHE:CG	2.29	0.68
6:AE:185:LYS:O	6:AE:189:LEU:HD13	1.93	0.68
18:B3:644:G:C6	41:BV:16:ALA:HB3	2.29	0.68
1:AA:239:U:C5	1:AA:240:C:C4	2.82	0.68
1:AA:111:G:C1'	1:AA:389:A:O2'	2.42	0.68
1:AA:1340:A:C3'	9:AI:141:TYR:CZ	2.76	0.68
11:AK:18:ILE:HD13	11:AK:27:VAL:HG23	1.76	0.68
11:AK:17:ARG:HD2	11:AK:28:HIS:NE2	2.09	0.68
20:BA:121:PRO:HD3	20:BA:134:PHE:HE1	1.57	0.68
18:B3:2581:U:C4'	18:B3:2600:A:C2	2.76	0.68
17:AS:64:LYS:HD3	17:AS:65:LEU:HD12	1.76	0.68
5:AD:69:ARG:CD	5:AD:76:LEU:HD13	2.22	0.68
2:AT:132:ILE:HD12	2:AT:162:ARG:CD	2.23	0.68
31:BL:4:LYS:O	31:BL:7:GLU:HB3	1.94	0.68
2:AT:374:PRO:O	2:AT:404:THR:HG23	1.94	0.68
24:BE:116:ASP:CB	24:BE:143:LYS:H	2.05	0.68
24:BE:209:GLU:HG3	24:BE:210:GLU:OE2	1.93	0.68
24:BE:23:ARG:HA	24:BE:23:ARG:NH1	2.08	0.68
24:BE:49:TYR:HE2	24:BE:144:VAL:HG22	1.59	0.68
1:AA:335:C:O2'	1:AA:1434:A:H8	1.77	0.68
18:B3:2662:G:N3	18:B3:2814:A:C6	2.62	0.68
33:BN:92:GLY:H	33:BN:94:LEU:CD1	2.07	0.68
18:B3:449:A:OP2	23:BD:45:LYS:CG	2.42	0.68
34:BO:59:ARG:CD	34:BO:85:GLY:HA2	2.24	0.68
34:BO:93:ILE:HD13	34:BO:116:LYS:NZ	2.08	0.68
21:BB:48:VAL:HG22	21:BB:59:LYS:HE2	1.74	0.68
1:AA:232:G:H22	16:AQ:129:PRO:CG	2.05	0.68
18:B3:2283:G:H5''	28:BI:114:GLY:HA3	1.57	0.68
22:BC:10:HIS:CB	22:BC:232:TRP:HD1	2.06	0.68
22:BC:254:TRP:HZ3	22:BC:256:PRO:HB2	1.59	0.68
22:BC:48:TYR:HB3	22:BC:335:VAL:HA	1.73	0.68
28:BI:47:PRO:CG	28:BI:141:LYS:HA	2.24	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:38:LYS:HD3	28:BI:40:LYS:CG	2.20	0.68
28:BI:48:LEU:HD22	28:BI:139:ARG:CB	2.21	0.68
31:BL:171:ARG:HA	31:BL:174:ASN:O	1.94	0.68
18:B3:1812:G:N3	18:B3:2732:U:H4'	2.08	0.68
35:BP:134:LYS:O	35:BP:137:LEU:HB3	1.93	0.68
29:BJ:71:ARG:CD	29:BJ:75:ALA:H	2.07	0.68
4:AC:76:PHE:CG	4:AC:83:ILE:HD11	2.28	0.68
10:AJ:69:LYS:CD	14:AN:39:ARG:NH2	2.57	0.68
6:AE:219:ASN:N	8:AH:129:TYR:CD2	2.28	0.68
37:BR:67:PRO:HG2	37:BR:69:LEU:HD23	1.74	0.68
27:BH:41:ILE:CG2	32:BM:128:LEU:HD11	1.97	0.68
27:BH:48:VAL:HG22	27:BH:53:ILE:CG2	2.24	0.68
1:AA:1081:G:P	6:AE:88:GLN:CD	2.72	0.68
1:AA:676:A:N7	11:AK:120:VAL:C	2.33	0.68
46:BZ:74:VAL:HG23	46:BZ:77:LYS:HZ3	1.59	0.68
1:AA:1495:U:O3'	18:B3:1962:G:P	2.52	0.68
41:BV:80:LEU:HD21	41:BV:86:ARG:HH11	1.59	0.68
15:AO:86:ASP:HA	15:AO:89:TYR:HD2	1.58	0.68
20:BA:90:LEU:CD2	20:BA:123:LEU:HB2	2.24	0.68
1:AA:562:C:C2	12:AL:31:LYS:O	2.23	0.68
1:AA:978:A:H2'	17:AS:82:ASN:HB2	1.74	0.68
42:B0:19:ARG:HG3	42:B0:33:ARG:HH11	1.57	0.68
18:B3:629:A:H5'	42:B0:39:ASP:N	2.09	0.68
18:B3:1074:G:OP1	42:B0:45:ARG:CG	2.39	0.68
9:AI:51:LEU:HD11	9:AI:84:ILE:HD13	1.75	0.68
24:BE:103:LEU:HD21	24:BE:226:TYR:CE2	2.29	0.68
19:B4:35:C:OP2	24:BE:185:PHE:HZ	1.76	0.68
19:B4:119:C:C5	24:BE:71:GLY:HA2	2.13	0.68
33:BN:93:LEU:HD11	33:BN:147:LEU:HD22	1.74	0.68
34:BO:42:ALA:HB3	34:BO:134:GLY:CA	2.23	0.68
18:B3:52:A:C1'	18:B3:121:U:O2	2.24	0.68
18:B3:53:C:H5'	18:B3:121:U:C2'	2.24	0.68
23:BD:63:SER:CB	23:BD:73:ILE:H	2.06	0.68
31:BL:82:LYS:O	46:BZ:48:GLY:O	2.11	0.68
18:B3:1855:G:C6	21:BB:150:PRO:HG2	2.28	0.68
25:BF:88:ILE:HG13	25:BF:89:LYS:N	2.08	0.68
18:B3:949:U:C4'	36:BQ:100:LYS:HA	2.24	0.68
18:B3:107:U:O4'	44:BX:56:THR:CA	2.41	0.68
22:BC:229:THR:CG2	22:BC:246:ARG:HG3	2.23	0.68
22:BC:359:ASP:OD1	38:BS:14:TYR:CD1	2.46	0.68
18:B3:921:G:O3'	41:BV:41:ARG:CD	2.41	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:26:GLY:CA	29:BJ:31:ARG:H	2.05	0.68
29:BJ:71:ARG:HD2	29:BJ:74:LYS:CA	2.24	0.68
20:BA:16:LEU:HD21	20:BA:207:LYS:C	2.15	0.68
18:B3:2165:G:N3	20:BA:207:LYS:NZ	2.41	0.68
18:B3:1446:U:P	39:BT:69:GLU:OE1	2.52	0.68
18:B3:1675:C:C5'	39:BT:118:THR:O	2.32	0.68
10:AJ:74:GLU:O	14:AN:40:GLN:HB2	1.93	0.68
18:B3:2558:G:H1'	18:B3:2799:A:O2'	1.93	0.68
18:B3:1115:U:O2	18:B3:1225:C:C5'	2.41	0.68
18:B3:2779:G:C1'	27:BH:163:GLN:HB3	2.23	0.68
27:BH:18:VAL:HA	27:BH:26:LYS:NZ	2.08	0.68
32:BM:107:ILE:HG13	32:BM:108:PRO:N	2.07	0.68
18:B3:2460:A:O4'	46:BZ:59:LYS:CB	2.40	0.68
40:BU:50:ILE:CD1	40:BU:101:PRO:HB3	2.24	0.68
40:BU:59:VAL:HG13	40:BU:103:LYS:O	1.94	0.68
40:BU:72:SER:HB2	40:BU:81:GLN:CB	2.25	0.68
18:B3:74:A:H2'	18:B3:75:U:C6	2.28	0.68
1:AA:988:G:C4	1:AA:1015:A:N9	2.31	0.67
1:AA:1300:G:O5'	13:AM:30:TYR:CG	2.46	0.67
18:B3:2368:A:H3'	24:BE:31:TYR:HE2	1.50	0.67
36:BQ:45:ASN:H	36:BQ:45:ASN:HD22	1.41	0.67
36:BQ:30:TYR:CA	36:BQ:93:VAL:HG23	2.19	0.67
18:B3:524:A:H5'	33:BN:29:ARG:HH21	1.58	0.67
33:BN:88:LYS:CE	33:BN:89:PHE:HD2	2.06	0.67
18:B3:27:U:O2	18:B3:1318:A:C2	2.43	0.67
18:B3:1310:U:OP2	23:BD:181:LEU:N	2.27	0.67
34:BO:65:SER:HB3	34:BO:91:ALA:HB3	1.74	0.67
18:B3:2274:A:O2'	31:BL:79:THR:CA	2.41	0.67
22:BC:19:LYS:CE	22:BC:19:LYS:HA	2.22	0.67
18:B3:2806:C:O2'	22:BC:277:ILE:CD1	2.41	0.67
22:BC:302:LYS:CG	22:BC:320:PHE:HZ	2.07	0.67
18:B3:2768:A:H8	22:BC:345:THR:HG23	1.58	0.67
18:B3:251:C:O2'	31:BL:139:LYS:CE	2.41	0.67
18:B3:264:G:N1	26:BG:137:HIS:HD2	1.92	0.67
31:BL:103:GLU:HG2	31:BL:104:ARG:N	2.07	0.67
18:B3:1566:C:C3'	35:BP:56:VAL:HG13	2.21	0.67
18:B3:1795:G:N7	35:BP:96:ARG:CZ	2.56	0.67
18:B3:1597:A:C4'	35:BP:95:ILE:HG21	2.24	0.67
29:BJ:87:GLU:HB3	29:BJ:90:LEU:HA	1.76	0.67
20:BA:157:PHE:HE2	20:BA:165:LEU:HD22	1.54	0.67
39:BT:71:ALA:O	39:BT:81:LEU:HD11	1.93	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:363:A:N6	12:AL:44:GLY:HA3	2.08	0.67
2:AT:536:LEU:HD22	18:B3:2698:G:C4'	2.23	0.67
18:B3:2796:U:H1'	27:BH:160:ASP:CG	2.12	0.67
1:AA:1405:G:C4'	1:AA:1519:A:OP1	2.38	0.67
1:AA:567:G:P	6:AE:201:GLY:HA2	2.34	0.67
46:BZ:37:GLN:HG2	46:BZ:40:ARG:HE	1.59	0.67
15:AO:82:GLU:HA	15:AO:85:GLU:CD	2.15	0.67
23:BD:11:THR:CG2	23:BD:13:GLU:H	1.99	0.67
5:AD:74:ASN:ND2	5:AD:79:ARG:HB2	2.10	0.67
18:B3:337:A:H2	18:B3:1314:U:O2'	1.76	0.67
46:BZ:88:LYS:HD3	46:BZ:89:HIS:N	2.09	0.67
1:AA:1219:U:O3'	17:AS:59:LYS:CB	2.42	0.67
13:AM:92:ILE:C	13:AM:109:LEU:HD11	2.14	0.67
1:AA:1223:C:OP2	17:AS:122:THR:OG1	2.11	0.67
7:AG:107:LEU:O	7:AG:110:VAL:HG22	1.93	0.67
9:AI:98:GLU:HA	9:AI:106:LYS:N	2.09	0.67
18:B3:448:G:N3	23:BD:47:GLN:HB3	2.08	0.67
18:B3:646:G:H4'	23:BD:106:ARG:HH21	1.56	0.67
23:BD:151:VAL:HG22	23:BD:248:ILE:HD11	1.75	0.67
18:B3:1164:U:H5'	30:BK:47:ALA:CB	2.24	0.67
21:BB:108:GLU:O	21:BB:135:ILE:HG23	1.94	0.67
21:BB:162:ARG:HH11	21:BB:163:GLY:HA2	1.60	0.67
21:BB:49:HIS:CE1	21:BB:51:SER:H	2.11	0.67
16:AQ:70:LEU:HB2	16:AQ:124:VAL:CG1	2.24	0.67
18:B3:1730:G:H5'	18:B3:1731:C:C5	2.30	0.67
18:B3:2672:C:O3'	22:BC:31:PHE:CE1	2.41	0.67
18:B3:1741:U:C5'	18:B3:2724:U:OP1	2.42	0.67
28:BI:59:GLN:HA	28:BI:128:ARG:HG3	1.76	0.67
37:BR:86:ARG:HD3	37:BR:86:ARG:N	2.10	0.67
31:BL:53:LYS:HE2	31:BL:58:PHE:HE2	1.55	0.67
18:B3:1806:G:C2	18:B3:2884:G:C1'	2.77	0.67
35:BP:87:ARG:NH1	35:BP:87:ARG:HB2	2.09	0.67
18:B3:921:G:OP2	41:BV:40:HIS:ND1	2.16	0.67
18:B3:2334:C:H5''	29:BJ:110:ASP:C	2.14	0.67
29:BJ:162:PHE:O	29:BJ:163:LYS:HG2	1.94	0.67
18:B3:1507:C:C5'	39:BT:74:LYS:CD	2.72	0.67
1:AA:619:U:H2'	5:AD:129:ILE:HG23	1.75	0.67
6:AE:219:ASN:O	8:AH:99:GLY:HA3	1.94	0.67
37:BR:32:ARG:CZ	37:BR:62:VAL:HG12	2.24	0.67
18:B3:1118:A:C6	18:B3:1226:G:C3'	2.68	0.67
18:B3:2780:C:C5'	27:BH:162:GLN:NE2	2.57	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:128:VAL:HG13	27:BH:157:ASN:HD21	1.59	0.67
27:BH:13:PRO:CD	27:BH:79:ILE:HG23	2.24	0.67
1:AA:1074:G:O3'	3:AB:102:THR:HB	1.93	0.67
46:BZ:27:TYR:CE1	46:BZ:68:VAL:HG22	2.29	0.67
46:BZ:79:ARG:CZ	46:BZ:80:ALA:H	2.07	0.67
6:AE:164:VAL:HG22	6:AE:202:LYS:O	1.94	0.67
41:BV:80:LEU:CD2	41:BV:86:ARG:HD2	2.23	0.67
15:AO:104:ASN:CG	15:AO:107:ASP:HB2	2.13	0.67
43:BW:77:LYS:HD3	43:BW:79:ASN:ND2	2.10	0.67
20:BA:118:LYS:O	20:BA:122:ARG:HG2	1.94	0.67
18:B3:284:C:H1'	18:B3:285:A:OP2	1.94	0.67
6:AE:121:ALA:O	6:AE:124:ILE:HG22	1.94	0.67
30:BK:93:LYS:HD2	30:BK:96:LYS:HD3	1.76	0.67
8:AH:82:ILE:HD13	8:AH:82:ILE:H	1.58	0.67
18:B3:1684:A:O2'	18:B3:1685:A:H5''	1.94	0.67
13:AM:50:ALA:HA	13:AM:68:ARG:HD3	1.74	0.67
1:AA:662:G:H2'	1:AA:663:A:C8	2.30	0.67
18:B3:162:C:H2'	18:B3:163:U:H5'	1.76	0.67
18:B3:1641:A:H2'	18:B3:1642:A:H5'	1.75	0.67
1:AA:1309:G:C8	13:AM:92:ILE:C	2.67	0.67
1:AA:1309:G:H22	13:AM:96:LYS:HB2	1.59	0.67
13:AM:104:ASN:O	13:AM:108:LYS:HB2	1.93	0.67
1:AA:1308:U:P	13:AM:145:ARG:CD	2.79	0.67
1:AA:1316:G:C6	17:AS:49:MET:HB3	2.28	0.67
1:AA:1221:G:O3'	17:AS:96:ILE:HG12	1.88	0.67
18:B3:540:A:H5''	42:B0:18:LYS:H	1.51	0.67
18:B3:1019:C:C4'	36:BQ:61:THR:HG21	2.24	0.67
19:B4:118:C:H1'	24:BE:68:THR:C	2.13	0.67
19:B4:36:C:H5'	24:BE:182:GLY:CA	2.23	0.67
33:BN:17:ARG:HA	33:BN:17:ARG:NE	2.09	0.67
33:BN:60:ARG:HD2	33:BN:61:ARG:CG	2.18	0.67
18:B3:1352:A:C5	23:BD:50:ALA:N	2.62	0.67
23:BD:125:ILE:HG23	23:BD:237:LEU:CD1	2.21	0.67
34:BO:123:THR:HG23	34:BO:125:ASP:N	2.09	0.67
34:BO:79:LYS:HG3	34:BO:138:LEU:HD11	1.77	0.67
34:BO:68:ALA:HB2	34:BO:92:ARG:NH1	2.08	0.67
18:B3:2121:G:O2'	31:BL:83:PRO:CD	2.43	0.67
18:B3:1166:G:H4'	30:BK:48:LYS:C	2.08	0.67
21:BB:188:TYR:N	21:BB:190:LEU:HD22	2.09	0.67
18:B3:2125:G:O2'	21:BB:227:GLY:HA2	1.94	0.67
21:BB:28:LEU:HD12	21:BB:29:ARG:NH2	2.08	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:953:G:C2'	36:BQ:13:TYR:CE1	2.77	0.67
44:BX:49:LYS:HD3	44:BX:50:SER:N	2.09	0.67
18:B3:2820:A:H5''	22:BC:145:ARG:HD2	1.75	0.67
22:BC:226:GLU:HG3	22:BC:230:HIS:CE1	2.29	0.67
22:BC:228:VAL:HG23	22:BC:234:THR:CG2	2.23	0.67
22:BC:55:ILE:HD11	22:BC:355:LEU:CB	2.24	0.67
22:BC:92:VAL:HG23	22:BC:101:LEU:HD21	1.74	0.67
26:BG:141:LEU:HD12	26:BG:142:ILE:HG23	1.76	0.67
31:BL:109:ALA:HB3	31:BL:112:LEU:CD2	2.24	0.67
31:BL:113:ARG:HH21	31:BL:154:VAL:CG1	2.04	0.67
18:B3:1794:G:O4'	35:BP:96:ARG:HG2	1.94	0.67
18:B3:919:U:O2	41:BV:41:ARG:CB	2.42	0.67
18:B3:2334:C:C2	29:BJ:114:LYS:CA	2.72	0.67
29:BJ:95:PHE:HA	29:BJ:101:PHE:HD2	1.55	0.67
18:B3:1507:C:H5''	39:BT:74:LYS:CD	2.23	0.67
5:AD:179:ARG:HD2	5:AD:182:GLU:HG3	1.76	0.67
5:AD:164:PHE:CE1	5:AD:183:ALA:HB1	2.29	0.67
1:AA:99:C:H4'	1:AA:101:A:C8	2.30	0.67
18:B3:1041:U:C5'	41:BV:18:LYS:HG2	2.12	0.67
1:AA:920:U:H5'	1:AA:1080:A:C1'	2.23	0.67
1:AA:1071:C:OP2	6:AE:90:ARG:CZ	2.42	0.67
43:BW:10:GLU:OE2	43:BW:69:ARG:HG2	1.93	0.67
46:BZ:65:LYS:N	46:BZ:65:LYS:HE3	2.09	0.67
40:BU:100:HIS:ND1	40:BU:103:LYS:HD2	2.10	0.67
18:B3:80:A:C4'	40:BU:73:VAL:HG13	1.95	0.67
41:BV:11:ARG:NH1	41:BV:11:ARG:HB3	2.09	0.67
41:BV:82:PRO:CD	41:BV:120:VAL:HG22	2.24	0.67
18:B3:1154:A:C8	18:B3:1155:G:C1'	2.77	0.67
1:AA:705:U:C2'	11:AK:23:ASN:ND2	2.58	0.67
32:BM:22:VAL:HA	32:BM:25:GLN:OE1	1.95	0.67
7:AG:129:ILE:HG13	7:AG:130:GLN:N	2.09	0.67
29:BJ:132:ARG:CZ	29:BJ:133:PRO:HD3	2.24	0.67
7:AG:139:THR:OG1	7:AG:170:ALA:HB1	1.94	0.67
18:B3:1173:A:P	30:BK:40:LYS:CE	2.83	0.67
18:B3:681:G:H4'	18:B3:682:A:O5'	1.95	0.67
1:AA:1223:C:P	17:AS:122:THR:HG1	2.17	0.67
1:AA:989:C:C6	1:AA:1016:A:C2	2.83	0.67
1:AA:1296:C:C4'	13:AM:52:VAL:O	2.43	0.67
18:B3:1690:C:N1	33:BN:129:TYR:HD1	1.81	0.67
9:AI:28:ILE:HB	9:AI:35:ILE:HB	1.76	0.67
18:B3:2368:A:H2	24:BE:150:LEU:HD22	1.54	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:46:C:H2'	24:BE:154:THR:OG1	1.95	0.67
19:B4:47:A:OP1	24:BE:151:GLN:CG	2.42	0.67
33:BN:93:LEU:HD12	33:BN:147:LEU:HD22	1.74	0.67
18:B3:517:U:C6	18:B3:1339:G:H4'	2.23	0.67
23:BD:137:ARG:HG2	23:BD:245:ARG:HH22	1.59	0.67
47:B9:75:ALA:HA	47:B9:79:ARG:NH1	2.08	0.67
16:AQ:69:ILE:O	16:AQ:69:ILE:HD12	1.94	0.67
44:BX:28:LEU:HD13	44:BX:47:VAL:CG2	2.24	0.67
18:B3:2719:A:C2	37:BR:91:VAL:CG1	2.74	0.67
18:B3:2823:G:OP2	22:BC:135:LYS:CB	2.43	0.67
22:BC:39:PRO:HD3	22:BC:190:LYS:CB	2.25	0.67
31:BL:25:ARG:HD2	31:BL:26:VAL:H	1.57	0.67
18:B3:402:U:C4'	31:BL:69:ASN:OD1	2.35	0.67
18:B3:1800:G:H1'	35:BP:88:LEU:HB3	1.72	0.67
35:BP:99:ARG:NH2	35:BP:100:VAL:HG13	2.10	0.67
20:BA:54:LYS:CG	20:BA:156:LYS:CD	2.73	0.67
4:AC:27:GLU:HB3	4:AC:64:ARG:NH2	2.09	0.67
1:AA:25:C:H5'	1:AA:524:G:H4'	1.76	0.67
1:AA:382:A:H2'	1:AA:383:A:C8	2.30	0.67
1:AA:66:G:N2	1:AA:69:G:C8	2.62	0.67
2:AT:482:LYS:HB2	2:AT:793:PHE:CZ	2.29	0.67
18:B3:2578:G:N2	18:B3:2800:A:O2'	2.28	0.67
27:BH:124:ARG:NE	27:BH:124:ARG:HA	2.10	0.67
18:B3:80:A:H5''	40:BU:74:TYR:CZ	2.30	0.67
41:BV:69:LYS:CB	41:BV:70:PRO:HA	2.25	0.67
18:B3:2250:G:H2'	18:B3:2251:G:C8	2.29	0.67
18:B3:1811:A:C2	18:B3:2752:C:O2	2.45	0.67
18:B3:1882:C:OP2	21:BB:199:ARG:HG2	1.94	0.67
21:BB:4:ILE:HG23	21:BB:207:ASP:O	1.93	0.67
5:AD:76:LEU:H	5:AD:76:LEU:HD22	1.58	0.67
18:B3:1362:U:C4'	23:BD:94:ARG:NH1	2.53	0.67
18:B3:1590:A:H61	18:B3:1605:G:H1'	1.58	0.67
40:BU:89:LYS:CD	40:BU:92:GLY:H	2.07	0.67
1:AA:1329:A:OP1	13:AM:98:TYR:CE2	2.40	0.67
18:B3:542:A:OP2	42:B0:14:THR:C	2.33	0.67
18:B3:537:G:C4'	42:B0:21:HIS:CE1	2.77	0.67
1:AA:1124:G:O2'	10:AJ:56:VAL:CG2	2.41	0.67
9:AI:36:THR:HA	9:AI:39:GLU:HG2	1.76	0.67
19:B4:7:G:P	24:BE:30:TYR:CZ	2.87	0.67
1:AA:319:G:N3	1:AA:1434:A:C6	2.63	0.67
23:BD:136:ALA:HB3	23:BD:137:ARG:NH2	2.07	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:196:ARG:H	23:BD:196:ARG:NE	1.92	0.67
18:B3:693:A:C3'	41:BV:59:TYR:CZ	2.77	0.67
25:BF:180:ILE:O	25:BF:184:ILE:HD13	1.95	0.67
1:AA:190(D):U:O2'	16:AQ:109:HIS:CD2	2.47	0.67
1:AA:190(E):U:C5	16:AQ:134:VAL:CG2	2.78	0.67
18:B3:67:A:O3'	44:BX:55:LEU:HD22	1.62	0.67
18:B3:107:U:O4'	44:BX:56:THR:HA	1.92	0.67
18:B3:2093:G:H22	22:BC:257:ALA:HA	0.53	0.67
22:BC:49:LYS:HG3	22:BC:333:ARG:N	2.08	0.67
22:BC:70:GLU:HA	37:BR:88:ARG:CB	1.80	0.67
28:BI:102:MET:HB3	28:BI:113:GLN:CD	2.14	0.67
31:BL:102:GLU:HG2	31:BL:168:LYS:HE3	1.77	0.67
35:BP:102:ARG:CZ	35:BP:102:ARG:HB3	2.24	0.67
18:B3:1794:G:C1'	35:BP:96:ARG:HG2	2.24	0.67
18:B3:2346:C:C6	29:BJ:64:ILE:HG12	2.30	0.67
18:B3:2336:G:P	29:BJ:103:PHE:CE2	2.86	0.67
29:BJ:71:ARG:HH11	29:BJ:71:ARG:H	1.43	0.67
20:BA:41:TYR:CE1	20:BA:163:LEU:HD22	2.29	0.67
20:BA:58:CYS:HA	20:BA:153:SER:CB	2.25	0.67
10:AJ:70:THR:CA	14:AN:42:PHE:N	2.56	0.67
3:AB:75:ILE:HD12	3:AB:97:ILE:HB	1.76	0.67
1:AA:622:A:H5''	5:AD:78:ARG:HG2	1.74	0.67
6:AE:169:ILE:HG22	6:AE:196:TYR:O	1.93	0.67
1:AA:1068:G:OP1	1:AA:1388:C:H5'	1.94	0.67
1:AA:1495:U:H2'	1:AA:1496:C:C6	2.29	0.67
1:AA:1496:C:C2	1:AA:1518:A:C4	2.82	0.67
41:BV:74:LEU:HD21	41:BV:117:ILE:CG2	2.25	0.67
41:BV:86:ARG:HE	41:BV:86:ARG:H	1.42	0.67
1:AA:597:G:C5'	16:AQ:99:TYR:CG	2.78	0.67
7:AG:173:LEU:HD13	7:AG:209:ALA:HB1	1.76	0.67
18:B3:545:G:H8	18:B3:545:G:H5'	1.60	0.67
3:AB:162:ASN:ND2	3:AB:164:ARG:H	1.93	0.67
2:AT:386:VAL:HG12	2:AT:395:TYR:O	1.94	0.67
18:B3:1158:G:O2'	18:B3:1159:G:H5'	1.95	0.67
1:AA:1316:G:N2	17:AS:49:MET:HE1	2.10	0.67
1:AA:1330:U:O2	13:AM:93:THR:C	2.33	0.67
18:B3:619:U:H5''	42:B0:41:VAL:CB	2.24	0.67
1:AA:1178:G:O6	9:AI:109:THR:O	2.12	0.67
9:AI:18:VAL:O	9:AI:66:VAL:HG23	1.94	0.67
18:B3:2368:A:C3'	24:BE:31:TYR:HE2	2.08	0.67
19:B4:36:C:H6	24:BE:181:PRO:HA	1.58	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:83:LEU:HG	24:BE:104:LEU:HD13	1.76	0.67
18:B3:1304:U:H5'	23:BD:193:TYR:CZ	2.29	0.67
34:BO:80:THR:CB	34:BO:101:VAL:HG13	2.02	0.67
34:BO:32:LEU:CD1	34:BO:128:ALA:HB1	2.25	0.67
34:BO:29:LEU:HD22	34:BO:125:ASP:OD1	1.95	0.67
21:BB:56:PRO:HD3	47:B9:51:ALA:HB1	1.71	0.67
25:BF:131:PRO:HA	25:BF:228:PHE:CZ	2.29	0.67
18:B3:2093:G:OP1	22:BC:250:CYS:N	2.27	0.67
22:BC:188:SER:O	22:BC:191:VAL:HG22	1.94	0.67
28:BI:135:ILE:HG21	28:BI:159:PHE:HZ	1.58	0.67
18:B3:2136:G:N2	18:B3:2238:A:N3	2.40	0.67
18:B3:1809:G:O2'	18:B3:2731:G:C1'	2.43	0.67
7:AG:186:ILE:HG21	7:AG:190:ALA:HB3	1.77	0.67
18:B3:2109:U:O4	41:BV:39:HIS:HD2	1.78	0.67
18:B3:2336:G:O2'	29:BJ:101:PHE:HA	1.94	0.67
39:BT:105:ASP:O	39:BT:126:THR:HG23	1.93	0.67
3:AB:66:ILE:CG2	3:AB:70:GLU:HB2	2.20	0.67
18:B3:1117:A:OP1	18:B3:1226:G:O6	2.04	0.67
27:BH:171:ASP:HB2	27:BH:173:ARG:NH2	2.09	0.67
1:AA:675:A:C4	11:AK:120:VAL:HG11	1.95	0.67
35:BP:41:ARG:HD3	35:BP:44:VAL:CB	2.23	0.67
43:BW:17:LYS:HG3	43:BW:17:LYS:O	1.94	0.67
40:BU:82:VAL:HG12	40:BU:83:ASP:N	2.09	0.67
1:AA:1504:G:H4'	1:AA:1506:U:C3'	2.23	0.67
1:AA:728:A:H61	15:AO:108:LYS:NZ	1.91	0.67
1:AA:705:U:O2'	11:AK:23:ASN:CG	2.31	0.67
43:BW:76:ARG:HA	43:BW:82:GLU:CG	2.24	0.67
16:AQ:78:LYS:CE	16:AQ:78:LYS:HA	2.20	0.67
7:AG:79:LYS:HE3	7:AG:164:LEU:HD13	1.75	0.67
24:BE:199:ILE:HG21	24:BE:219:PHE:C	2.15	0.67
4:AC:131:LYS:HB2	4:AC:188:MET:SD	2.34	0.67
4:AC:159:SER:HB2	4:AC:167:ILE:HD11	1.75	0.67
30:BK:30:PRO:O	30:BK:34:PRO:HD2	1.95	0.67
2:AT:417:ASN:HB2	2:AT:425:ASP:OD2	1.93	0.67
24:BE:24:ARG:NH1	24:BE:25:GLU:HB2	2.10	0.67
36:BQ:40:VAL:HG22	36:BQ:97:LYS:HB2	1.77	0.67
18:B3:656:G:H4'	23:BD:30:ARG:CD	2.24	0.67
18:B3:450:C:OP2	23:BD:195:ASN:OD1	2.13	0.67
23:BD:207:VAL:HG11	23:BD:247:VAL:CG1	2.20	0.67
18:B3:894:A:OP2	23:BD:57:HIS:CG	2.48	0.67
18:B3:948:G:N2	36:BQ:100:LYS:HD2	2.07	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:130:A:C8	16:AQ:134:VAL:O	2.48	0.67
22:BC:41:ALA:O	22:BC:180:ILE:HD13	1.95	0.67
28:BI:48:LEU:HB3	28:BI:140:THR:O	1.94	0.67
37:BR:92:PHE:HD1	38:BS:20:LEU:CG	2.06	0.67
18:B3:251:C:H1'	31:BL:139:LYS:NZ	2.07	0.67
35:BP:117:HIS:O	35:BP:121:VAL:HG23	1.95	0.67
29:BJ:16:LEU:HD11	29:BJ:75:ALA:CB	2.24	0.67
20:BA:36:VAL:HG22	20:BA:204:LEU:HD12	1.76	0.67
18:B3:1508:C:H5'	39:BT:77:ASP:CB	2.23	0.67
2:AT:465:LYS:CE	2:AT:511:LEU:CG	2.66	0.67
37:BR:60:ALA:H	37:BR:74:MET:CG	2.07	0.67
32:BM:12:GLY:O	32:BM:123:LEU:HD12	1.94	0.67
32:BM:38:GLU:CD	32:BM:39:GLU:H	1.97	0.67
1:AA:1070:U:C3'	6:AE:90:ARG:HB2	2.23	0.67
1:AA:1405:G:C8	1:AA:1519:A:O4'	2.43	0.67
40:BU:74:TYR:O	40:BU:75:ARG:HG3	1.94	0.67
18:B3:2081:A:O2'	32:BM:69:PRO:CA	2.42	0.67
18:B3:2321:A:O2'	18:B3:2322:U:H3'	1.93	0.67
4:AC:174:VAL:HG12	4:AC:176:MET:HG3	1.75	0.67
18:B3:499:G:O3'	33:BN:19:SER:OG	2.11	0.67
32:BM:22:VAL:HG23	32:BM:25:GLN:OE1	1.95	0.67
18:B3:362:G:H2'	18:B3:363:A:H8	1.57	0.67
18:B3:1701:A:H5''	18:B3:1702:U:H3'	1.77	0.67
2:AT:378:LEU:N	2:AT:471:THR:HG22	2.10	0.67
37:BR:104:ASN:HA	37:BR:110:LYS:HE2	1.76	0.67
1:AA:1303:C:H41	13:AM:40:ARG:HE	1.42	0.67
1:AA:1320:C:O2'	13:AM:122:HIS:CG	2.48	0.67
1:AA:1249:C:O2'	9:AI:72:GLY:CA	2.43	0.67
24:BE:116:ASP:CB	24:BE:142:PHE:HA	2.25	0.67
18:B3:2413:A:C1'	24:BE:174:PRO:HB3	2.23	0.67
18:B3:2050:G:O2'	33:BN:85:LYS:CD	2.37	0.67
18:B3:670:G:N2	23:BD:231:SER:HA	2.05	0.67
18:B3:677:C:O2'	23:BD:259:GLN:CB	2.27	0.67
18:B3:645:U:H1'	23:BD:101:PRO:HD3	1.75	0.67
18:B3:894:A:C4'	23:BD:57:HIS:CD2	2.74	0.67
18:B3:773:A:O2'	45:BY:48:TRP:CZ3	2.47	0.67
18:B3:1167:G:C2'	30:BK:110:ILE:CG2	2.72	0.67
21:BB:134:ILE:O	21:BB:134:ILE:HD12	1.94	0.67
21:BB:240:ARG:HG2	21:BB:240:ARG:O	1.94	0.67
1:AA:190(D):U:C2	16:AQ:111:SER:CB	2.77	0.67
18:B3:1733:A:C8	22:BC:225:PHE:CZ	2.80	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2709:G:OP1	37:BR:10:LYS:HA	1.94	0.67
18:B3:2821:C:C6	22:BC:103:THR:HG23	2.29	0.67
22:BC:208:PHE:HB2	22:BC:338:ARG:HH22	1.59	0.67
18:B3:1053:G:OP1	28:BI:15:LYS:HD2	1.95	0.67
28:BI:51:HIS:C	28:BI:52:LEU:HD13	2.14	0.67
28:BI:59:GLN:HB2	28:BI:128:ARG:HG3	1.77	0.67
26:BG:151:LEU:H	26:BG:198:ALA:HB1	1.60	0.67
31:BL:102:GLU:HG2	31:BL:168:LYS:HZ1	1.57	0.67
18:B3:2351:C:OP1	29:BJ:138:THR:CG2	2.43	0.67
29:BJ:36:LEU:HD11	29:BJ:43:THR:HG23	1.77	0.67
29:BJ:18:LEU:CD1	29:BJ:68:VAL:HG21	2.25	0.67
39:BT:120:LYS:HA	39:BT:120:LYS:CE	2.22	0.67
3:AB:183:LEU:HG	3:AB:183:LEU:O	1.95	0.67
1:AA:554:C:C4'	12:AL:45:GLY:N	2.57	0.67
1:AA:99:C:O4'	1:AA:101:A:N6	2.28	0.67
18:B3:2796:U:H1'	27:BH:160:ASP:HB2	1.75	0.67
27:BH:132:VAL:HG11	27:BH:157:ASN:HD22	1.58	0.67
1:AA:1084:G:H1	6:AE:90:ARG:HH12	1.43	0.67
40:BU:55:GLU:CB	40:BU:108:LYS:HB3	2.25	0.67
18:B3:79:G:C1'	40:BU:27:ARG:HH12	2.06	0.67
1:AA:19:C:O2'	1:AA:573:A:N6	2.27	0.67
41:BV:74:LEU:HD11	41:BV:137:ILE:HD11	1.75	0.67
1:AA:1505:G:H8	1:AA:1506:U:H6	0.80	0.67
1:AA:120:A:C2	1:AA:122:G:C6	2.83	0.67
1:AA:518:C:O2'	12:AL:66:SER:CB	2.43	0.67
1:AA:111:G:H2'	1:AA:389:A:H4'	1.75	0.67
21:BB:4:ILE:HG23	21:BB:208:HIS:HD2	1.59	0.67
3:AB:104:GLY:HA3	3:AB:108:ASN:OD1	1.93	0.67
6:AE:105:ASP:HB3	6:AE:142:TYR:HE1	1.59	0.67
18:B3:844:A:H2'	45:BY:2:LYS:HE2	1.77	0.67
18:B3:628:A:O2'	42:B0:38:ILE:HD12	1.94	0.67
19:B4:34:A:H2'	24:BE:185:PHE:CE1	2.30	0.67
36:BQ:43:LYS:HB2	36:BQ:95:HIS:NE2	2.10	0.67
18:B3:1370:G:C6	33:BN:24:SER:CB	2.69	0.67
33:BN:68:ARG:H	33:BN:79:LYS:CB	2.08	0.67
18:B3:1350:U:C5	23:BD:43:LYS:HD3	2.28	0.67
18:B3:457:U:OP1	18:B3:1352:A:C4	2.48	0.67
31:BL:76:LYS:HE2	31:BL:76:LYS:N	2.10	0.67
18:B3:2274:A:H2'	31:BL:80:TYR:HD2	1.60	0.67
18:B3:1182:U:C5'	30:BK:104:ILE:N	2.58	0.67
12:AL:141:GLU:HG3	12:AL:143:PRO:HG2	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:107:U:C1'	44:BX:56:THR:HG22	2.25	0.67
18:B3:2712:G:C5'	37:BR:42:SER:CB	2.34	0.67
18:B3:2678:A:H4'	22:BC:13:LEU:HD12	1.77	0.67
18:B3:1056:U:P	28:BI:110:ARG:H	2.01	0.67
31:BL:163:LEU:HD13	31:BL:164:THR:N	2.09	0.67
18:B3:1707:G:H5'	18:B3:2734:G:O3'	1.94	0.67
18:B3:1714:C:H1'	18:B3:2744:G:N2	2.09	0.67
35:BP:103:ARG:HB3	35:BP:104:LEU:HD12	1.76	0.67
18:B3:2890:A:N1	38:BS:52:THR:N	2.42	0.67
20:BA:36:VAL:HB	20:BA:165:LEU:HD21	1.77	0.67
20:BA:7:SER:HA	20:BA:10:ARG:HE	1.60	0.67
39:BT:81:LEU:CB	39:BT:122:TYR:HB2	2.21	0.67
39:BT:74:LYS:HE2	39:BT:78:GLY:HA3	1.76	0.67
1:AA:6:G:H4'	1:AA:299:G:P	2.28	0.67
8:AH:26:ILE:HB	8:AH:62:VAL:HG21	1.74	0.67
2:AT:111:PHE:HB3	2:AT:484:SER:O	1.95	0.67
18:B3:2578:G:H5''	18:B3:2802:C:OP1	1.94	0.67
18:B3:2560:C:C5'	27:BH:168:ARG:CG	2.67	0.67
18:B3:2565:C:C4	27:BH:171:ASP:CG	2.68	0.67
1:AA:1081:G:OP1	6:AE:88:GLN:NE2	2.27	0.67
35:BP:8:ARG:HH12	35:BP:18:LYS:HD3	1.58	0.67
18:B3:2379:G:OP2	46:BZ:8:LYS:CG	2.43	0.67
1:AA:404:U:C4	5:AD:70:LEU:CD1	2.77	0.67
1:AA:123:C:O3'	1:AA:289:G:N2	2.28	0.67
1:AA:124:G:OP1	1:AA:312:C:H1'	1.95	0.67
18:B3:1811:A:C6	18:B3:2730:G:N2	2.63	0.67
3:AB:116:GLU:CD	6:AE:133:LEU:HG	2.15	0.67
20:BA:5:THR:HG23	20:BA:8:GLN:H	1.59	0.67
18:B3:1666:C:H2'	18:B3:1667:A:H8	1.59	0.67
18:B3:2304:G:H4'	36:BQ:56:PHE:HD1	1.60	0.67
11:AK:32:LEU:HD23	11:AK:33:SER:H	1.59	0.67
1:AA:1219:U:O3'	17:AS:58:LYS:CG	1.99	0.67
1:AA:979:C:C4'	17:AS:80:MET:HA	2.24	0.67
1:AA:1302:U:H5'	13:AM:44:ASN:N	1.79	0.67
9:AI:29:LYS:HD3	9:AI:32:GLY:H	1.58	0.67
18:B3:2413:A:C2	24:BE:145:PHE:CE2	2.82	0.67
19:B4:49:G:P	24:BE:158:ARG:CB	2.83	0.67
19:B4:34:A:H3'	24:BE:185:PHE:CE1	2.29	0.67
18:B3:449:A:H3'	23:BD:46:ARG:HD3	1.76	0.67
18:B3:449:A:OP2	23:BD:45:LYS:HG2	1.95	0.67
18:B3:677:C:O2'	23:BD:256:LYS:HG2	1.78	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:184:LYS:HB3	23:BD:199:THR:HG22	1.77	0.67
34:BO:102:ALA:CB	34:BO:124:LEU:HA	2.25	0.67
18:B3:52:A:H5"	45:BY:20:ARG:NH1	2.10	0.67
18:B3:1163:G:H21	30:BK:52:GLU:CG	2.07	0.67
25:BF:179:SER:HA	25:BF:183:LEU:HD11	1.77	0.67
1:AA:131:C:H5"	16:AQ:128:ARG:NH1	1.87	0.67
22:BC:210:GLN:HE22	22:BC:283:ARG:HH21	1.43	0.67
22:BC:42:LEU:HD12	22:BC:42:LEU:H	1.60	0.67
28:BI:102:MET:SD	28:BI:113:GLN:HG3	2.35	0.67
37:BR:95:PHE:O	37:BR:96:GLU:HB2	1.94	0.67
26:BG:162:VAL:CA	26:BG:165:LEU:HD23	2.25	0.67
18:B3:1708:C:H5	35:BP:81:LYS:CB	2.08	0.67
18:B3:921:G:C1'	41:BV:41:ARG:HB3	2.25	0.67
18:B3:1673:U:H1'	39:BT:90:ASN:CA	2.25	0.67
10:AJ:70:THR:CB	14:AN:40:GLN:N	2.40	0.67
8:AH:14:ASN:O	8:AH:17:GLU:HG2	1.94	0.67
1:AA:521:G:H5'	12:AL:89:ASN:H	1.59	0.67
18:B3:762:C:N4	41:BV:23:LYS:HZ1	1.93	0.67
27:BH:23:ARG:HH12	27:BH:39:LYS:HG2	1.60	0.67
1:AA:675:A:C4	11:AK:120:VAL:CG1	2.67	0.67
18:B3:1401:G:C5'	43:BW:62:GLY:C	2.59	0.67
43:BW:55:ASN:CA	43:BW:58:ILE:HG22	2.25	0.67
46:BZ:59:LYS:H	46:BZ:59:LYS:HE3	1.60	0.67
1:AA:1375:A:N1	7:AG:76:TYR:OH	2.28	0.67
40:BU:30:LEU:HD22	40:BU:78:PHE:HB2	1.74	0.67
18:B3:906:C:N4	18:B3:1329:A:N3	2.43	0.67
1:AA:292:G:N2	1:AA:608:A:C2	2.40	0.67
1:AA:292:G:N2	1:AA:609:A:H1'	2.09	0.67
18:B3:2663:U:N1	18:B3:2816:A:C5	2.53	0.67
46:BZ:37:GLN:CB	46:BZ:40:ARG:HE	2.07	0.67
11:AK:42:THR:CG2	11:AK:52:ASP:HB2	2.23	0.67
11:AK:42:THR:HG21	11:AK:52:ASP:O	1.95	0.67
4:AC:141:LEU:O	4:AC:142:ARG:HG2	1.95	0.67
31:BL:30:ARG:NE	31:BL:30:ARG:HA	2.10	0.67
13:AM:66:LEU:O	13:AM:70:VAL:HG23	1.94	0.66
1:AA:1177:G:C8	9:AI:106:LYS:HD2	2.30	0.66
9:AI:99:GLN:HB3	9:AI:115:LEU:N	2.09	0.66
19:B4:119:C:O4'	24:BE:71:GLY:C	2.34	0.66
18:B3:13:G:OP1	33:BN:60:ARG:CD	2.39	0.66
42:B0:103:LYS:O	42:B0:107:VAL:HG13	1.95	0.66
18:B3:1335:C:N4	42:B0:98:HIS:NE2	2.16	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:457:U:OP1	23:BD:50:ALA:O	2.06	0.66
21:BB:179:LEU:CD1	47:B9:22:ARG:NH1	2.56	0.66
21:BB:116:GLU:H	21:BB:162:ARG:NE	1.93	0.66
25:BF:99:ARG:HA	25:BF:102:LEU:HD22	1.76	0.66
25:BF:164:ASP:CB	25:BF:180:ILE:HG23	2.22	0.66
19:B4:86:G:OP1	25:BF:218:LYS:CE	2.43	0.66
18:B3:2671:U:O5'	22:BC:178:ALA:HB1	1.94	0.66
18:B3:2037:C:C5	37:BR:49:LEU:HG	2.30	0.66
37:BR:85:TRP:HB3	37:BR:86:ARG:HD2	1.75	0.66
26:BG:105:LYS:HG3	26:BG:107:ARG:CZ	2.25	0.66
31:BL:47:ALA:HB3	31:BL:48:ARG:NH1	2.10	0.66
18:B3:1705:C:H5''	35:BP:62:THR:CB	2.09	0.66
18:B3:1814:G:C3'	18:B3:2733:U:C2	2.74	0.66
7:AG:119:ILE:O	7:AG:123:LEU:HD13	1.95	0.66
18:B3:2334:C:H4'	29:BJ:113:ILE:H	1.60	0.66
29:BJ:141:LYS:C	29:BJ:142:ARG:HD2	2.16	0.66
20:BA:55:LEU:C	20:BA:155:ILE:HG22	2.15	0.66
18:B3:1675:C:H5'	39:BT:87:MET:CE	2.22	0.66
18:B3:1672:G:OP1	39:BT:91:LYS:O	2.14	0.66
3:AB:123:THR:HG23	3:AB:124:ASP:N	2.10	0.66
5:AD:157:ASP:OD2	5:AD:160:PRO:HD2	1.95	0.66
8:AH:105:THR:HG22	8:AH:121:SER:O	1.96	0.66
18:B3:1042:U:P	41:BV:18:LYS:HD3	2.36	0.66
37:BR:37:ILE:HG23	37:BR:59:MET:HB2	1.77	0.66
18:B3:164:G:H4'	41:BV:31:ARG:CD	2.25	0.66
27:BH:16:VAL:HG11	27:BH:82:VAL:HG13	1.78	0.66
35:BP:52:LYS:H	35:BP:52:LYS:HE3	1.60	0.66
46:BZ:24:VAL:HA	46:BZ:71:LEU:HD13	1.76	0.66
18:B3:2435:U:O2'	46:BZ:27:TYR:CZ	2.45	0.66
1:AA:1345:U:C4	7:AG:76:TYR:HA	2.30	0.66
41:BV:74:LEU:HD21	41:BV:137:ILE:CD1	2.25	0.66
32:BM:141:SER:CA	32:BM:144:VAL:HG12	2.25	0.66
1:AA:1341:U:H6	9:AI:141:TYR:OH	1.78	0.66
18:B3:1882:C:P	21:BB:200:GLY:HA3	2.34	0.66
20:BA:32:VAL:HG13	20:BA:169:VAL:CG2	2.24	0.66
32:BM:84:ARG:NH2	32:BM:87:VAL:HG21	2.10	0.66
33:BN:126:ARG:HB2	33:BN:137:LYS:HB2	1.75	0.66
1:AA:1057:G:O2'	1:AA:1058:G:H5'	1.94	0.66
1:AA:1316:G:C2	17:AS:49:MET:HE1	2.28	0.66
1:AA:1297:C:C3'	13:AM:56:LYS:HA	2.03	0.66
42:B0:41:VAL:N	42:B0:44:ARG:HH21	1.94	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2414:A:N3	24:BE:145:PHE:HE2	1.92	0.66
36:BQ:48:ILE:HD13	36:BQ:48:ILE:H	1.60	0.66
36:BQ:72:VAL:HG13	36:BQ:74:VAL:CG2	2.24	0.66
33:BN:124:GLN:HB2	33:BN:139:GLU:HG2	1.76	0.66
42:B0:79:VAL:CG2	42:B0:109:LEU:HA	2.25	0.66
18:B3:35:U:H4'	23:BD:49:TYR:N	2.01	0.66
18:B3:517:U:H5'	18:B3:1340:G:OP2	1.96	0.66
34:BO:130:ARG:HG2	34:BO:131:ALA:N	2.10	0.66
47:B9:35:ARG:CB	47:B9:44:LYS:HD3	2.24	0.66
21:BB:113:SER:H	21:BB:164:VAL:HG22	1.60	0.66
19:B4:85:A:H4'	25:BF:228:PHE:CZ	2.23	0.66
18:B3:1287:A:H2	25:BF:106:ARG:HD3	1.59	0.66
25:BF:146:LEU:HG	25:BF:149:LYS:HE3	1.76	0.66
22:BC:161:VAL:CG2	22:BC:177:LEU:HD12	2.25	0.66
22:BC:221:LYS:HB3	22:BC:332:LYS:NZ	2.11	0.66
18:B3:2093:G:C1'	22:BC:253:ALA:HB2	2.23	0.66
22:BC:49:LYS:CG	22:BC:332:LYS:HA	2.24	0.66
37:BR:93:LEU:HA	38:BS:19:THR:CG2	2.25	0.66
18:B3:1471:A:H5''	31:BL:104:ARG:NH1	2.10	0.66
26:BG:201:GLU:HG3	26:BG:202:VAL:HG23	1.77	0.66
18:B3:1788:U:C2'	18:B3:2881:C:H2'	2.24	0.66
41:BV:40:HIS:CE1	41:BV:42:ILE:HD11	2.30	0.66
29:BJ:19:ASN:CG	29:BJ:66:VAL:HG13	2.15	0.66
1:AA:364:A:P	12:AL:50:LYS:CE	2.83	0.66
1:AA:65:U:O2'	1:AA:383:A:C6	2.45	0.66
2:AT:138:GLN:HE21	18:B3:2698:G:H5'	1.51	0.66
1:AA:1373:G:C4'	7:AG:104:GLY:O	2.43	0.66
27:BH:114:VAL:CG2	27:BH:125:ASN:HB2	2.24	0.66
27:BH:160:ASP:HA	27:BH:163:GLN:HG3	1.77	0.66
18:B3:1139:U:H5'	27:BH:62:ARG:CG	2.19	0.66
18:B3:1139:U:C1'	27:BH:62:ARG:HH21	2.06	0.66
43:BW:8:THR:HG22	43:BW:73:ARG:NH2	2.11	0.66
18:B3:2407:G:N2	46:BZ:19:HIS:CE1	2.63	0.66
40:BU:85:VAL:HG22	40:BU:86:THR:HG23	1.78	0.66
41:BV:106:ALA:HA	41:BV:108:TYR:CE1	2.29	0.66
41:BV:121:PRO:CG	41:BV:140:ALA:HB1	2.24	0.66
41:BV:118:PRO:HG3	41:BV:140:ALA:HB3	1.76	0.66
2:AT:29:ASP:OD2	18:B3:2693:U:OP2	2.12	0.66
11:AK:65:ASP:O	11:AK:69:LYS:HG2	1.96	0.66
1:AA:597:G:H5''	16:AQ:99:TYR:CD1	2.31	0.66
20:BA:122:ARG:HB2	20:BA:123:LEU:HD22	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:95:LYS:HA	32:BM:98:LEU:CD2	2.25	0.66
42:B0:67:SER:OG	42:B0:68:PRO:HD2	1.95	0.66
18:B3:2581:U:C1'	18:B3:2600:A:C2	2.77	0.66
1:AA:1301:U:H5'	13:AM:30:TYR:CB	2.22	0.66
13:AM:23:ASP:HB2	13:AM:31:ALA:CB	2.20	0.66
17:AS:50:THR:HG22	17:AS:51:SER:N	2.10	0.66
9:AI:28:ILE:HG21	9:AI:48:TYR:OH	1.95	0.66
24:BE:209:GLU:HG3	24:BE:210:GLU:OE1	1.95	0.66
24:BE:107:ARG:HG3	24:BE:226:TYR:CZ	2.29	0.66
18:B3:517:U:C1'	18:B3:1339:G:C1'	2.61	0.66
18:B3:1350:U:C6	23:BD:43:LYS:HD3	2.26	0.66
34:BO:62:VAL:CG2	34:BO:87:VAL:HG23	2.22	0.66
45:BY:27:HIS:H	45:BY:30:LYS:HD3	1.59	0.66
30:BK:71:ALA:HB1	30:BK:115:GLN:HA	1.77	0.66
18:B3:1847:A:C4	21:BB:180:LYS:CB	2.70	0.66
1:AA:130:A:C2	16:AQ:129:PRO:CG	2.57	0.66
22:BC:184:GLY:HA3	22:BC:190:LYS:HG3	1.76	0.66
22:BC:217:ILE:H	22:BC:217:ILE:HD13	1.60	0.66
22:BC:214:ILE:HG23	22:BC:339:LYS:C	2.16	0.66
28:BI:103:LEU:HD23	28:BI:118:ALA:HB2	1.77	0.66
37:BR:94:TYR:CD1	38:BS:21:PHE:HE2	2.00	0.66
18:B3:183:A:C1'	31:BL:158:ARG:NH1	2.58	0.66
26:BG:123:ASP:H	26:BG:188:LEU:HD13	1.60	0.66
26:BG:163:VAL:CG1	31:BL:5:TYR:CE2	2.75	0.66
18:B3:1816:C:H5''	18:B3:2747:C:OP1	1.95	0.66
7:AG:109:ALA:O	7:AG:112:ILE:HG22	1.95	0.66
29:BJ:83:LEU:HD21	29:BJ:90:LEU:HG	1.77	0.66
39:BT:66:ILE:HD13	39:BT:67:THR:N	2.10	0.66
12:AL:128:SER:CB	12:AL:130:VAL:HG23	2.25	0.66
2:AT:464:LEU:HD12	2:AT:509:LYS:CB	2.25	0.66
37:BR:32:ARG:CB	37:BR:64:LYS:HB3	2.04	0.66
18:B3:1117:A:OP1	18:B3:1138:G:C6	2.42	0.66
27:BH:104:VAL:CG1	27:BH:111:PHE:HA	2.26	0.66
32:BM:79:PHE:HZ	32:BM:103:VAL:HB	1.58	0.66
32:BM:117:VAL:HG22	32:BM:118:VAL:H	1.60	0.66
18:B3:2458:U:OP1	46:BZ:84:LEU:N	2.29	0.66
18:B3:2853:U:H5'	22:BC:170:LEU:CD2	2.21	0.66
40:BU:100:HIS:HB2	40:BU:101:PRO:HA	1.77	0.66
40:BU:27:ARG:HB2	40:BU:78:PHE:CE2	2.30	0.66
1:AA:358:U:C4'	2:AT:390:ASP:OD1	2.43	0.66
18:B3:2626:C:OP1	21:BB:215:HIS:NE2	2.22	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:104:GLY:HA2	3:AB:107:THR:CG2	2.10	0.66
4:AC:105:LYS:CG	4:AC:172:ARG:HB3	2.25	0.66
32:BM:91:THR:HG23	32:BM:95:LYS:NZ	2.08	0.66
36:BQ:11:THR:H	36:BQ:12:ARG:HD2	1.60	0.66
22:BC:166:ARG:CD	22:BC:167:LYS:H	2.09	0.66
40:BU:88:GLU:HA	40:BU:89:LYS:HE3	1.77	0.66
2:AT:189:VAL:CG1	2:AT:200:VAL:HG13	2.25	0.66
40:BU:77:LYS:O	40:BU:77:LYS:HG3	1.94	0.66
1:AA:1299:A:H4'	13:AM:27:LYS:H	1.59	0.66
19:B4:51:A:C2	24:BE:58:LYS:CD	2.76	0.66
24:BE:23:ARG:O	24:BE:24:ARG:HB3	1.95	0.66
36:BQ:43:LYS:HA	36:BQ:58:GLN:HG2	1.77	0.66
42:B0:85:LEU:HD23	42:B0:85:LEU:H	1.60	0.66
18:B3:1349:G:H4'	23:BD:40:SER:C	2.14	0.66
34:BO:23:ASN:O	34:BO:27:LYS:HG2	1.95	0.66
45:BY:16:THR:HG22	45:BY:17:LEU:N	2.10	0.66
18:B3:891:G:O4'	45:BY:49:GLY:CA	2.44	0.66
18:B3:1163:G:H4'	30:BK:54:LYS:CB	2.21	0.66
30:BK:78:SER:O	30:BK:81:VAL:HG12	1.96	0.66
21:BB:103:LEU:HD12	21:BB:138:HIS:CE1	2.29	0.66
21:BB:171:GLY:CA	47:B9:67:ALA:HB2	2.17	0.66
25:BF:206:LEU:HD11	25:BF:242:MET:CB	2.26	0.66
22:BC:115:ARG:HA	22:BC:115:ARG:CZ	2.24	0.66
18:B3:2672:C:P	22:BC:179:GLU:O	2.52	0.66
22:BC:219:VAL:HG12	22:BC:220:THR:O	1.94	0.66
22:BC:359:ASP:CA	38:BS:16:GLY:N	2.52	0.66
22:BC:56:VAL:HG13	22:BC:69:ARG:HG2	1.77	0.66
28:BI:105:CYS:H	28:BI:112:GLN:N	1.91	0.66
22:BC:70:GLU:HB2	37:BR:88:ARG:HG3	1.77	0.66
18:B3:1469:C:H3'	31:BL:71:LYS:HZ1	1.59	0.66
35:BP:92:VAL:HA	35:BP:95:ILE:HD11	1.75	0.66
20:BA:26:ARG:HD2	20:BA:210:MET:CE	2.12	0.66
18:B3:1674:C:P	39:BT:111:THR:HG23	2.34	0.66
18:B3:1674:C:OP2	39:BT:110:ASN:O	2.13	0.66
3:AB:82:GLN:O	3:AB:85:VAL:HG12	1.94	0.66
6:AE:157:THR:CA	8:AH:127:PHE:CZ	2.76	0.66
1:AA:12:U:C1'	1:AA:526:C:H5'	2.25	0.66
1:AA:64:G:C4	1:AA:97:G:O6	2.38	0.66
18:B3:1118:A:H3'	18:B3:1118:A:H8	1.60	0.66
18:B3:1226:G:OP1	18:B3:1246:A:N1	2.29	0.66
27:BH:27:VAL:HG12	27:BH:28:VAL:N	2.08	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:10:ILE:HG22	27:BH:53:ILE:O	1.94	0.66
35:BP:21:VAL:N	35:BP:51:LYS:HG2	2.09	0.66
1:AA:1345:U:H3	7:AG:76:TYR:CB	2.00	0.66
1:AA:1495:U:O2	1:AA:1517:G:N2	2.22	0.66
18:B3:2853:U:C4'	22:BC:170:LEU:HD21	2.24	0.66
1:AA:124:G:H5''	1:AA:289:G:C2	2.25	0.66
11:AK:29:VAL:HG23	11:AK:66:VAL:HG11	1.75	0.66
3:AB:87:LYS:HG3	3:AB:196:ILE:HD11	1.76	0.66
1:AA:1302:U:H5	13:AM:47:CYS:HB3	1.59	0.66
1:AA:1309:G:H4'	13:AM:91:ASP:HB3	1.75	0.66
18:B3:841:A:H2'	33:BN:131:ALA:HB1	1.76	0.66
1:AA:1176:A:O3'	9:AI:107:ALA:HA	1.74	0.66
24:BE:15:ARG:O	36:BQ:19:PHE:CE2	2.49	0.66
24:BE:184:ASP:H	24:BE:187:THR:HG22	1.61	0.66
19:B4:50:G:H5'	24:BE:94:ASN:HB2	0.74	0.66
24:BE:17:GLN:N	36:BQ:19:PHE:HE2	1.93	0.66
36:BQ:42:ILE:HG22	36:BQ:60:LYS:O	1.94	0.66
18:B3:1347:U:O2'	23:BD:241:ALA:N	2.27	0.66
18:B3:520:A:H4'	18:B3:1322:G:OP1	1.94	0.66
18:B3:672:G:C2'	23:BD:214:ILE:HG21	2.24	0.66
23:BD:225:GLU:HG3	23:BD:236:GLN:CG	2.19	0.66
34:BO:81:VAL:HG11	34:BO:138:LEU:HD22	1.76	0.66
23:BD:92:MET:HA	23:BD:92:MET:CE	2.24	0.66
18:B3:1164:U:C5	30:BK:49:ALA:C	2.61	0.66
21:BB:78:ASN:OD1	21:BB:165:ILE:HG22	1.95	0.66
21:BB:240:ARG:H	21:BB:240:ARG:NE	1.94	0.66
21:BB:53:ARG:HD2	21:BB:54:GLY:N	2.11	0.66
1:AA:537:G:C4'	12:AL:143:PRO:HG2	2.25	0.66
18:B3:1133:A:H5''	28:BI:162:GLN:CG	2.25	0.66
22:BC:114:LYS:HB3	22:BC:119:LYS:HB3	1.78	0.66
22:BC:127:LYS:HE2	22:BC:128:ALA:H	1.59	0.66
22:BC:174:LYS:HD3	22:BC:176:HIS:HD2	1.60	0.66
22:BC:46:LEU:HB3	22:BC:337:LEU:HA	1.77	0.66
28:BI:116:ARG:HD2	28:BI:117:GLY:N	2.11	0.66
37:BR:11:PHE:C	37:BR:86:ARG:HG3	2.16	0.66
18:B3:2245:C:C5	18:B3:2246:U:C5	2.83	0.66
31:BL:119:TRP:HA	31:BL:129:PHE:HA	1.75	0.66
35:BP:60:SER:C	35:BP:63:ARG:HD2	2.13	0.66
18:B3:2334:C:C4'	29:BJ:113:ILE:N	2.57	0.66
18:B3:2345:A:H5'	29:BJ:48:LYS:CE	2.24	0.66
20:BA:56:PRO:N	20:BA:155:ILE:HG23	2.04	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:619:U:C1'	5:AD:132:ARG:H	2.09	0.66
3:AB:70:GLU:CD	3:AB:118:ARG:HG3	2.15	0.66
12:AL:102:VAL:HG23	12:AL:133:LEU:CD1	2.25	0.66
18:B3:2561:C:H4'	18:B3:2777:G:O3'	1.95	0.66
27:BH:170:LYS:HG2	27:BH:171:ASP:N	2.11	0.66
27:BH:24:ILE:HG12	27:BH:25:VAL:O	1.96	0.66
32:BM:43:SER:HA	32:BM:134:TYR:HB3	1.77	0.66
1:AA:1068:G:OP1	1:AA:1388:C:C5'	2.44	0.66
18:B3:2438:G:H8	46:BZ:14:LYS:NZ	1.93	0.66
18:B3:2459:G:OP2	46:BZ:86:ARG:NH2	2.29	0.66
40:BU:31:LEU:CD2	40:BU:78:PHE:HB3	2.25	0.66
18:B3:903:U:C5	41:BV:15:SER:N	2.64	0.66
1:AA:405:U:H3'	1:AA:406:G:H5'	1.78	0.66
40:BU:89:LYS:C	40:BU:89:LYS:HD2	2.15	0.66
24:BE:195:LEU:O	24:BE:196:ARG:HG2	1.95	0.66
12:AL:34:LEU:HD22	12:AL:35:GLY:O	1.95	0.66
7:AG:187:LYS:HD2	7:AG:187:LYS:C	2.16	0.66
17:AS:108:ARG:HB2	17:AS:110:GLU:OE2	1.95	0.66
18:B3:629:A:C5'	42:B0:38:ILE:HG23	2.25	0.66
1:AA:1177:G:C8	9:AI:106:LYS:CD	2.78	0.66
33:BN:13:SER:CB	33:BN:149:VAL:HG21	2.25	0.66
18:B3:518:G:H5'	18:B3:1338:U:O2'	1.91	0.66
23:BD:139:HIS:CD2	23:BD:141:VAL:HG13	2.31	0.66
23:BD:174:HIS:HA	23:BD:177:LEU:CD1	2.25	0.66
34:BO:101:VAL:HG12	34:BO:102:ALA:N	2.11	0.66
34:BO:59:ARG:HD3	34:BO:85:GLY:CA	2.24	0.66
34:BO:60:PRO:HG3	34:BO:86:THR:H	1.58	0.66
30:BK:42:VAL:O	30:BK:46:ILE:HG12	1.96	0.66
18:B3:1862:C:P	21:BB:7:GLN:HB2	2.34	0.66
47:B9:56:CYS:HB3	47:B9:61:LYS:H	1.61	0.66
47:B9:32:GLN:HE21	47:B9:68:TYR:HB2	1.60	0.66
21:BB:9:LYS:HA	21:BB:15:PHE:CE1	2.30	0.66
19:B4:85:A:O4'	25:BF:131:PRO:CB	2.37	0.66
25:BF:179:SER:HA	25:BF:183:LEU:CD2	2.25	0.66
22:BC:87:GLY:HA2	22:BC:104:VAL:HG23	1.75	0.66
37:BR:57:MET:HE3	37:BR:126:TRP:CZ2	2.31	0.66
26:BG:105:LYS:HA	26:BG:105:LYS:HZ3	1.58	0.66
26:BG:112:ALA:H	26:BG:117:GLU:CB	2.07	0.66
26:BG:112:ALA:CB	26:BG:115:VAL:HG12	2.22	0.66
31:BL:109:ALA:HB1	31:BL:112:LEU:HD11	1.77	0.66
31:BL:50:LEU:HD21	31:BL:118:TYR:HE2	1.58	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2350:G:H22	29:BJ:116:ASP:CG	1.98	0.66
29:BJ:163:LYS:HD2	29:BJ:169:ASP:CA	2.25	0.66
18:B3:2215:A:O3'	20:BA:64:SER:OG	2.13	0.66
18:B3:1671:U:C4'	39:BT:92:TYR:CE1	2.76	0.66
21:BB:210:HIS:CD2	21:BB:218:ILE:HG22	2.30	0.66
1:AA:400:C:C3'	5:AD:77:ILE:CD1	2.51	0.66
6:AE:168:LEU:HD23	6:AE:197:THR:HG22	1.77	0.66
1:AA:860:A:C2'	8:AH:18:LYS:NZ	2.58	0.66
1:AA:66:G:H4'	1:AA:173:U:H1'	1.72	0.66
1:AA:69:G:H2'	1:AA:171:A:N1	2.11	0.66
43:BW:11:TYR:CZ	43:BW:72:LEU:HD13	2.31	0.66
40:BU:111:LEU:HB3	40:BU:116:LYS:CG	2.26	0.66
40:BU:112:ASP:HB3	40:BU:113:LYS:HE3	1.77	0.66
40:BU:35:LEU:CG	40:BU:39:LEU:HD23	2.25	0.66
12:AL:65:ASN:HD22	12:AL:65:ASN:H	1.42	0.66
20:BA:121:PRO:HG3	20:BA:134:PHE:CE1	2.31	0.66
32:BM:5:VAL:HG11	32:BM:31:LYS:N	2.10	0.66
34:BO:54:LEU:HG	34:BO:55:SER:N	2.11	0.66
18:B3:2581:U:H4'	18:B3:2600:A:N1	2.09	0.66
18:B3:1106:A:C8	18:B3:1106:A:H5'	2.29	0.66
18:B3:1561:U:H2'	18:B3:1562:C:H6	1.60	0.66
18:B3:778:C:C5'	45:BY:9:LYS:HZ3	2.02	0.66
18:B3:844:A:OP1	33:BN:130:ARG:CB	2.24	0.66
18:B3:628:A:HO2'	42:B0:38:ILE:HD12	1.61	0.66
1:AA:1150:U:O2	10:AJ:59:PRO:N	2.29	0.66
18:B3:2415:A:C1'	24:BE:39:GLN:CD	2.26	0.66
24:BE:188:GLU:HA	24:BE:198:TYR:HB2	1.77	0.66
19:B4:5:G:H3'	24:BE:27:LYS:HZ1	1.47	0.66
18:B3:1277:C:O2'	34:BO:31:LYS:HD3	1.94	0.66
18:B3:1304:U:C3'	23:BD:194:ARG:HD2	2.25	0.66
18:B3:28:G:H4'	18:B3:1317:A:N3	2.10	0.66
34:BO:63:SER:HB3	34:BO:90:ASP:OD2	1.95	0.66
23:BD:63:SER:HB2	23:BD:73:ILE:H	1.60	0.66
18:B3:51:G:O2'	45:BY:19:ASN:O	2.14	0.66
18:B3:945:U:O4'	25:BF:125:LEU:HD23	1.96	0.66
18:B3:953:G:H5'	36:BQ:13:TYR:CD2	2.27	0.66
1:AA:538:G:OP1	12:AL:143:PRO:HD2	1.94	0.66
18:B3:106:A:O2'	44:BX:57:VAL:O	2.13	0.66
18:B3:1743:G:H21	37:BR:18:PRO:HD2	1.60	0.66
18:B3:2036:C:H5''	37:BR:48:ARG:HH21	1.58	0.66
18:B3:2090:G:C5	22:BC:265:ARG:NH2	2.39	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2828:G:O5'	22:BC:129:PHE:CD1	2.49	0.66
18:B3:2830:U:C1'	22:BC:126:LYS:HZ2	2.07	0.66
22:BC:44:SER:HB2	22:BC:180:ILE:CG2	2.24	0.66
37:BR:96:GLU:CD	38:BS:24:GLY:HA2	2.16	0.66
26:BG:113:ALA:N	26:BG:119:LYS:HA	2.11	0.66
31:BL:96:SER:HB3	31:BL:98:ARG:HD3	1.77	0.66
18:B3:1800:G:C1'	35:BP:88:LEU:CB	2.63	0.66
29:BJ:25:SER:CB	29:BJ:65:ALA:HB2	2.21	0.66
27:BH:108:GLY:O	27:BH:111:PHE:HB2	1.96	0.66
27:BH:64:HIS:CB	32:BM:127:ARG:HB3	2.26	0.66
27:BH:67:ALA:C	27:BH:68:LEU:HD13	2.16	0.66
1:AA:1071:C:OP1	6:AE:90:ARG:C	2.32	0.66
35:BP:7:LYS:HZ1	35:BP:8:ARG:HD2	1.60	0.66
18:B3:2437:A:C4'	46:BZ:14:LYS:HB2	2.23	0.66
40:BU:99:LEU:HD13	40:BU:100:HIS:ND1	2.10	0.66
40:BU:55:GLU:HB3	40:BU:108:LYS:HB3	1.76	0.66
1:AA:17:U:H2'	1:AA:18:C:C6	2.30	0.66
1:AA:293:G:C2'	1:AA:609:A:H2	1.95	0.66
11:AK:42:THR:HB	11:AK:52:ASP:OD1	1.96	0.66
32:BM:90:LYS:CE	32:BM:90:LYS:H	2.08	0.66
17:AS:80:MET:HE1	17:AS:83:MET:HB2	1.76	0.66
18:B3:843:A:C2	33:BN:132:HIS:ND1	2.63	0.66
33:BN:130:ARG:NH1	33:BN:130:ARG:HB3	2.11	0.66
19:B4:26:C:OP2	24:BE:81:HIS:HE1	1.79	0.66
24:BE:90:HIS:CD2	24:BE:91:GLY:H	2.14	0.66
18:B3:2424:U:C4'	36:BQ:7:TYR:HD2	2.08	0.66
33:BN:63:ASN:HB2	33:BN:65:SER:O	1.96	0.66
23:BD:229:VAL:O	23:BD:256:LYS:HE3	1.95	0.66
34:BO:125:ASP:O	34:BO:128:ALA:HB3	1.96	0.66
34:BO:66:ARG:NH1	34:BO:67:ILE:HG12	2.11	0.66
18:B3:52:A:N3	18:B3:121:U:O2'	2.29	0.66
18:B3:120:A:C4	45:BY:16:THR:HG21	2.30	0.66
45:BY:27:HIS:HB2	45:BY:30:LYS:HB3	1.77	0.66
18:B3:1163:G:N2	30:BK:52:GLU:CD	2.50	0.66
18:B3:1184:A:C5'	30:BK:85:LEU:O	2.43	0.66
21:BB:3:VAL:CG1	21:BB:7:GLN:HE21	2.08	0.66
25:BF:105:LEU:HB2	25:BF:107:LEU:CD1	2.26	0.66
18:B3:2093:G:C3'	22:BC:253:ALA:HB2	2.22	0.66
18:B3:2672:C:H5'	22:BC:31:PHE:HZ	1.58	0.66
28:BI:99:ILE:HD12	28:BI:121:LYS:HD2	1.78	0.66
37:BR:40:LYS:HD3	37:BR:57:MET:SD	2.35	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:103:GLU:HG2	31:BL:104:ARG:HG2	1.77	0.66
31:BL:146:ARG:H	31:BL:146:ARG:HD2	1.60	0.66
18:B3:188:C:O2'	31:BL:187:ARG:HG3	1.96	0.66
31:BL:42:THR:CG2	31:BL:43:ARG:HH11	2.08	0.66
31:BL:66:ARG:HB3	31:BL:67:ARG:CZ	2.25	0.66
29:BJ:141:LYS:HA	29:BJ:144:LYS:CE	2.24	0.66
18:B3:1673:U:P	39:BT:91:LYS:HG3	2.35	0.66
5:AD:99:LEU:CA	5:AD:103:ASP:H	2.06	0.66
6:AE:168:LEU:CD2	6:AE:197:THR:HG22	2.25	0.66
2:AT:536:LEU:CD1	18:B3:2698:G:HO2'	1.99	0.66
37:BR:39:VAL:HG12	37:BR:58:VAL:HG12	1.76	0.66
18:B3:2566:A:C5'	27:BH:174:LYS:HZ1	2.08	0.66
32:BM:43:SER:HB2	32:BM:134:TYR:CE1	2.31	0.66
1:AA:143:A:OP2	1:AA:200:G:H2'	1.95	0.66
35:BP:21:VAL:HG23	35:BP:22:TRP:CD2	2.31	0.66
46:BZ:70:ARG:HH21	46:BZ:79:ARG:H	1.44	0.66
40:BU:111:LEU:N	40:BU:111:LEU:HD13	2.11	0.66
40:BU:86:THR:HG23	40:BU:97:ILE:HG12	1.76	0.66
41:BV:71:VAL:HA	41:BV:110:LYS:CD	2.26	0.66
41:BV:136:LYS:O	41:BV:137:ILE:HG12	1.96	0.66
41:BV:74:LEU:CG	41:BV:117:ILE:HG21	2.26	0.66
18:B3:875:A:HI'	21:BB:203:MET:HE1	1.76	0.66
8:AH:81:LYS:HE2	8:AH:86:GLU:CG	2.17	0.66
1:AA:562:C:HI'	12:AL:32:ARG:HD2	1.77	0.66
1:AA:562:C:C5	12:AL:33:LEU:HD22	2.29	0.66
18:B3:544:G:C2'	18:B3:545:G:H5''	2.26	0.66
18:B3:382:U:O4	31:BL:11:ARG:NH2	2.29	0.66
29:BJ:6:ASN:HB3	29:BJ:7:PRO:HD3	1.78	0.66
40:BU:122:LYS:H	40:BU:122:LYS:HD3	1.61	0.66
1:AA:1307:U:N3	13:AM:94:ASP:OD1	2.29	0.66
17:AS:83:MET:CE	17:AS:85:ILE:HG22	2.26	0.66
42:B0:16:LYS:HD2	42:B0:16:LYS:N	2.09	0.66
10:AJ:88:LYS:HA	10:AJ:88:LYS:HE3	1.77	0.66
19:B4:35:C:C2	24:BE:203:HIS:HE1	2.14	0.66
24:BE:43:LYS:H	24:BE:43:LYS:HD2	1.60	0.66
36:BQ:43:LYS:HB2	36:BQ:95:HIS:CD2	2.30	0.66
33:BN:125:ARG:O	33:BN:139:GLU:HB2	1.96	0.66
33:BN:111:LEU:HD23	33:BN:150:THR:CG2	2.25	0.66
18:B3:1351:G:C8	23:BD:108:TRP:CH2	2.80	0.66
47:B9:38:CYS:SG	47:B9:61:LYS:HE2	2.35	0.66
21:BB:47:ILE:CD1	47:B9:53:ILE:HG13	2.23	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2442:G:P	41:BV:61:HIS:NE2	2.67	0.66
25:BF:105:LEU:H	25:BF:105:LEU:HD22	1.61	0.66
1:AA:190(D):U:H2'	16:AQ:109:HIS:O	1.95	0.66
1:AA:538:G:OP1	12:AL:143:PRO:CD	2.39	0.66
18:B3:68:U:H4'	44:BX:51:ILE:HD12	1.76	0.66
44:BX:8:GLU:O	44:BX:12:LYS:HD3	1.96	0.66
28:BI:95:HIS:HB3	28:BI:126:ALA:O	1.96	0.66
28:BI:60:LEU:O	28:BI:126:ALA:HB1	1.96	0.66
22:BC:365:GLY:HA2	38:BS:35:LYS:HG2	1.72	0.66
18:B3:239:C:O2'	31:BL:146:ARG:NH1	2.29	0.66
26:BG:115:VAL:HG21	26:BG:213:LEU:CB	2.25	0.66
26:BG:150:VAL:CG2	26:BG:176:TYR:HB2	2.24	0.66
26:BG:203:ARG:HE	26:BG:207:GLU:HG2	1.61	0.66
18:B3:924:G:C6	41:BV:41:ARG:CD	2.78	0.66
18:B3:2336:G:C4'	29:BJ:101:PHE:CE2	2.64	0.66
18:B3:2169:C:O2'	20:BA:26:ARG:NH1	2.28	0.66
39:BT:104:VAL:HG22	39:BT:129:TYR:CG	2.31	0.66
39:BT:111:THR:HG22	39:BT:112:LEU:N	2.11	0.66
21:BB:210:HIS:HD2	21:BB:218:ILE:HG22	1.61	0.66
18:B3:762:C:H41	41:BV:23:LYS:HZ1	1.41	0.66
18:B3:2596:A:O3'	37:BR:73:VAL:HG12	1.96	0.66
27:BH:17:THR:HG22	27:BH:18:VAL:N	2.11	0.66
1:AA:203:U:H5''	1:AA:204:U:OP1	1.95	0.66
35:BP:16:VAL:HB	35:BP:20:LYS:HE2	1.78	0.66
18:B3:2435:U:O2'	46:BZ:27:TYR:OH	1.99	0.66
1:AA:633:G:C4'	16:AQ:94:PRO:O	2.35	0.66
40:BU:35:LEU:CD1	40:BU:47:ALA:HA	2.25	0.66
40:BU:46:LYS:HD2	40:BU:47:ALA:CB	2.25	0.66
1:AA:309:G:H21	1:AA:607:A:N6	1.93	0.66
41:BV:110:LYS:HE2	41:BV:110:LYS:N	2.05	0.66
1:AA:948:C:H3'	13:AM:141:THR:HG23	1.75	0.66
1:AA:1504:G:H4'	1:AA:1506:U:H3'	1.77	0.66
1:AA:1442:G:H2'	1:AA:1442:G:N3	2.11	0.66
18:B3:1882:C:OP1	21:BB:201:VAL:N	2.28	0.66
29:BJ:132:ARG:HH11	29:BJ:132:ARG:HG3	1.61	0.66
16:AQ:74:VAL:HG13	16:AQ:83:ILE:HG13	1.78	0.66
2:AT:91:GLN:HE21	2:AT:347:THR:CB	2.09	0.66
18:B3:1369:A:C4'	33:BN:64:SER:H	1.99	0.66
1:AA:1290:G:H5'	7:AG:108:LYS:HZ1	1.61	0.66
9:AI:96:VAL:O	9:AI:101:LYS:HB2	1.95	0.66
18:B3:960:G:N3	18:B3:960:G:H2'	2.11	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:169:GLY:HA2	24:BE:226:TYR:OH	1.96	0.66
1:AA:318:G:H4'	1:AA:1468:A:H4'	1.78	0.66
33:BN:114:SER:HB3	33:BN:148:VAL:HG11	1.77	0.66
42:B0:101:SER:HB2	42:B0:105:ARG:CG	2.26	0.66
42:B0:105:ARG:HA	42:B0:105:ARG:NH1	2.11	0.66
23:BD:140:ARG:NE	23:BD:179:LYS:HB2	2.11	0.66
23:BD:177:LEU:N	23:BD:205:LEU:HD11	2.11	0.66
23:BD:38:PHE:CZ	23:BD:241:ALA:HA	2.30	0.66
18:B3:1184:A:H1'	30:BK:86:LYS:CG	2.23	0.66
30:BK:20:GLY:CA	30:BK:54:LYS:HE2	2.25	0.66
21:BB:104:GLY:HA2	21:BB:138:HIS:CE1	2.30	0.66
25:BF:150:ARG:HA	25:BF:150:ARG:NH1	2.11	0.66
18:B3:2654:C:H1'	22:BC:259:VAL:HG13	0.75	0.66
18:B3:2819:C:C4	22:BC:100:SER:CB	2.79	0.66
18:B3:2819:C:H2'	22:BC:101:LEU:N	2.08	0.66
18:B3:2830:U:H1'	22:BC:126:LYS:HZ1	1.60	0.66
18:B3:1733:A:C5'	22:BC:226:GLU:HA	2.23	0.66
22:BC:332:LYS:HE2	22:BC:332:LYS:N	2.10	0.66
22:BC:213:MET:CB	22:BC:341:LEU:HD13	2.08	0.66
28:BI:102:MET:HA	28:BI:112:GLN:HB3	1.77	0.66
28:BI:103:LEU:HB2	28:BI:118:ALA:N	2.11	0.66
28:BI:61:SER:HB3	28:BI:63:GLU:HG2	1.77	0.66
37:BR:19:VAL:HB	37:BR:50:PRO:HG3	1.78	0.66
37:BR:15:LEU:HA	37:BR:53:SER:HB2	1.77	0.66
26:BG:132:LYS:HD2	26:BG:137:HIS:CB	2.26	0.66
26:BG:189:VAL:HG13	26:BG:191:GLN:CG	2.23	0.66
18:B3:1805:G:N3	18:B3:2883:A:C6	2.63	0.66
18:B3:1814:G:C3'	18:B3:2733:U:N1	2.59	0.66
18:B3:2734:G:OP2	35:BP:79:LYS:NZ	2.27	0.66
18:B3:2347:C:C6	29:BJ:66:VAL:HG12	1.52	0.66
18:B3:2166:G:C6	20:BA:61:PRO:HG3	2.30	0.66
18:B3:1507:C:H5''	39:BT:74:LYS:HD3	1.78	0.66
1:AA:619:U:O3'	5:AD:129:ILE:HD11	1.95	0.66
2:AT:785:ARG:HG3	2:AT:785:ARG:HH11	1.61	0.66
27:BH:135:GLU:HB2	27:BH:145:VAL:HB	1.78	0.66
18:B3:2379:G:OP2	46:BZ:8:LYS:HG3	1.96	0.66
1:AA:1495:U:H3	1:AA:1517:G:H21	1.39	0.66
6:AE:163:SER:HB2	6:AE:202:LYS:HB2	1.77	0.66
2:AT:749:LYS:HE3	18:B3:2508:C:C4	2.25	0.66
1:AA:356:A:OP1	1:AA:366:C:N3	2.29	0.66
1:AA:728:A:H61	15:AO:108:LYS:HD2	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:42:THR:O	11:AK:42:THR:HG22	1.96	0.66
1:AA:55:A:C2	2:AT:68:ILE:N	2.48	0.66
33:BN:55:ARG:HD2	33:BN:72:GLY:O	1.95	0.66
18:B3:285:A:H62	18:B3:367:G:H1'	1.61	0.66
1:AA:105:G:H2'	1:AA:106:C:C6	2.30	0.66
6:AE:192:VAL:CG1	6:AE:195:VAL:HG13	2.26	0.66
18:B3:179:C:OP1	45:BY:47:ASN:OD1	2.14	0.66
1:AA:475:G:H2'	1:AA:476:G:H8	1.61	0.66
1:AA:371:G:O2'	1:AA:372:C:H5'	1.96	0.66
1:AA:1308:U:H2'	13:AM:92:ILE:HG23	1.78	0.65
1:AA:1328:C:C2'	13:AM:96:LYS:CB	2.74	0.65
1:AA:1298:C:OP1	13:AM:56:LYS:C	2.33	0.65
18:B3:882:A:C5'	45:BY:2:LYS:N	2.60	0.65
18:B3:778:C:C5'	45:BY:9:LYS:HZ1	1.94	0.65
42:B0:36:LYS:NZ	42:B0:37:GLY:H	1.94	0.65
1:AA:1179:A:OP2	9:AI:116:LEU:CD2	2.43	0.65
9:AI:45:PHE:CZ	9:AI:47:VAL:HG21	2.30	0.65
24:BE:184:ASP:CA	24:BE:187:THR:HG23	2.22	0.65
24:BE:208:MET:HE2	24:BE:210:GLU:HA	1.78	0.65
36:BQ:75:ILE:HG21	36:BQ:88:ARG:O	1.95	0.65
33:BN:17:ARG:NE	33:BN:93:LEU:HB2	2.10	0.65
42:B0:100:ILE:HG13	42:B0:106:VAL:HG21	1.77	0.65
18:B3:27:U:O2	18:B3:1318:A:C5	2.44	0.65
18:B3:121:U:H5	45:BY:17:LEU:HD13	1.61	0.65
18:B3:2101:A:H8	23:BD:70:VAL:O	1.79	0.65
18:B3:894:A:H2	23:BD:98:MET:HE2	1.61	0.65
18:B3:1875:A:O2'	21:BB:151:SER:CA	2.44	0.65
21:BB:113:SER:CB	21:BB:168:ILE:HD11	2.25	0.65
21:BB:29:ARG:NH1	21:BB:29:ARG:HB3	2.11	0.65
18:B3:1067:A:P	25:BF:96:PRO:CG	2.78	0.65
44:BX:8:GLU:HB3	44:BX:12:LYS:HE3	1.77	0.65
18:B3:2066:C:OP2	22:BC:255:HIS:CB	2.44	0.65
18:B3:2762:C:O2'	37:BR:83:LYS:HD2	1.93	0.65
22:BC:112:GLU:HG2	22:BC:173:LYS:CA	2.26	0.65
18:B3:2821:C:OP1	22:BC:141:ALA:CB	2.44	0.65
22:BC:40:VAL:HG21	22:BC:207:VAL:HG11	1.78	0.65
18:B3:1054:G:C6	28:BI:111:LEU:HD11	2.31	0.65
26:BG:112:ALA:CB	26:BG:121:LYS:HG3	2.26	0.65
26:BG:151:LEU:HD21	26:BG:185:LEU:CD2	2.25	0.65
26:BG:203:ARG:CD	26:BG:210:LEU:HD12	2.13	0.65
31:BL:138:HIS:HB3	31:BL:141:ILE:HG21	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1706:G:H8	18:B3:2736:U:OP1	1.78	0.65
18:B3:2738:G:H3'	35:BP:60:SER:HA	1.77	0.65
7:AG:112:ILE:HG13	7:AG:190:ALA:CA	2.25	0.65
20:BA:98:LYS:HE2	20:BA:102:LYS:NZ	2.11	0.65
3:AB:169:ILE:HG13	3:AB:170:GLY:N	2.11	0.65
18:B3:2565:C:C2	27:BH:170:LYS:O	2.49	0.65
32:BM:43:SER:HB2	32:BM:134:TYR:CD1	2.30	0.65
1:AA:1086:U:H5'	1:AA:1389:C:H5''	1.76	0.65
35:BP:3:LEU:O	35:BP:6:GLN:HG3	1.96	0.65
18:B3:2552:C:O2'	18:B3:2553:A:C2'	2.43	0.65
46:BZ:66:LYS:HZ3	46:BZ:86:ARG:HD2	1.61	0.65
40:BU:100:HIS:CG	40:BU:103:LYS:HD2	2.31	0.65
40:BU:57:LEU:CD1	40:BU:105:VAL:HB	2.26	0.65
41:BV:97:THR:O	41:BV:125:LYS:HE2	1.96	0.65
1:AA:947:G:C3'	13:AM:143:ARG:NE	2.57	0.65
1:AA:1505:G:C8	1:AA:1506:U:C2'	2.77	0.65
1:AA:1505:G:N7	1:AA:1506:U:OP1	2.15	0.65
1:AA:239:U:H5	1:AA:240:C:C5	2.14	0.65
2:AT:29:ASP:OD1	18:B3:2693:U:P	2.52	0.65
11:AK:40:ARG:CB	11:AK:66:VAL:HG23	2.26	0.65
20:BA:114:GLU:HG3	20:BA:138:VAL:O	1.96	0.65
11:AK:83:ARG:HE	11:AK:117:VAL:HG13	1.61	0.65
18:B3:285:A:N6	18:B3:367:G:H1'	2.11	0.65
20:BA:4:ILE:HG23	20:BA:5:THR:N	2.11	0.65
18:B3:1613:C:H2'	18:B3:1614:G:O4'	1.96	0.65
1:AA:1222:G:P	17:AS:81:ARG:HH12	2.19	0.65
1:AA:1249:C:O2'	9:AI:72:GLY:HA2	1.96	0.65
10:AJ:32:LYS:CE	10:AJ:32:LYS:HA	2.23	0.65
18:B3:2414:A:N3	24:BE:145:PHE:CE2	2.64	0.65
18:B3:1018:A:O2'	36:BQ:60:LYS:HE2	1.63	0.65
33:BN:41:THR:OG1	33:BN:109:THR:HA	1.96	0.65
33:BN:117:GLN:CG	33:BN:145:ILE:HB	2.18	0.65
33:BN:47:LEU:O	33:BN:50:VAL:HB	1.96	0.65
18:B3:1182:U:O4'	30:BK:105:GLN:CA	2.41	0.65
21:BB:114:ASN:OD1	21:BB:123:GLY:HA3	1.96	0.65
18:B3:1287:A:H2	25:BF:106:ARG:NH1	1.50	0.65
18:B3:944:G:C1'	25:BF:100:LYS:CE	2.73	0.65
25:BF:157:LYS:HD3	25:BF:159:ARG:HH12	1.61	0.65
1:AA:130:A:P	16:AQ:136:PHE:C	2.67	0.65
18:B3:2615:U:H5'	22:BC:240:LYS:HA	1.77	0.65
22:BC:28:VAL:CG1	22:BC:339:LYS:HD3	2.15	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2283:G:C2	28:BI:105:CYS:HA	2.30	0.65
37:BR:86:ARG:O	37:BR:92:PHE:HB2	1.97	0.65
31:BL:41:PRO:CD	31:BL:48:ARG:HH22	2.08	0.65
31:BL:52:TYR:CE2	31:BL:60:ILE:HG23	2.31	0.65
31:BL:67:ARG:H	31:BL:67:ARG:NH1	1.95	0.65
35:BP:61:ARG:HA	35:BP:61:ARG:NE	2.10	0.65
18:B3:166:A:H62	41:BV:28:PRO:C	2.00	0.65
18:B3:2351:C:OP1	29:BJ:138:THR:HG21	1.96	0.65
29:BJ:34:LYS:O	29:BJ:37:GLU:HB2	1.95	0.65
10:AJ:70:THR:HB	14:AN:42:PHE:N	2.09	0.65
14:AN:22:VAL:HG13	14:AN:23:CYS:N	2.11	0.65
5:AD:109:LEU:HD23	5:AD:109:LEU:O	1.95	0.65
8:AH:33:ILE:HG23	8:AH:60:ILE:HD11	1.77	0.65
1:AA:551:U:O2	12:AL:48:HIS:CE1	2.50	0.65
37:BR:72:LYS:O	37:BR:73:VAL:HG13	1.96	0.65
32:BM:123:LEU:CD1	32:BM:123:LEU:H	2.07	0.65
32:BM:123:LEU:HD22	32:BM:124:ARG:H	1.59	0.65
18:B3:1381:A:N7	43:BW:24:PHE:O	2.30	0.65
40:BU:31:LEU:HD11	40:BU:78:PHE:C	2.16	0.65
1:AA:919:A:C1'	1:AA:1079:G:H21	2.09	0.65
18:B3:905:C:C4	18:B3:1330:A:C4	2.84	0.65
18:B3:905:C:C6	41:BV:11:ARG:NH1	2.63	0.65
1:AA:1443:G:H5''	1:AA:1446:A:C5'	2.17	0.65
18:B3:375:G:N2	18:B3:411:A:P	2.69	0.65
1:AA:55:A:C2	2:AT:67:GLY:O	2.41	0.65
32:BM:33:VAL:HA	32:BM:102:LYS:O	1.97	0.65
6:AE:140:ARG:HD2	6:AE:151:HIS:HA	1.77	0.65
12:AL:101:GLU:H	12:AL:132:LEU:CD2	2.09	0.65
22:BC:9:ARG:NE	22:BC:9:ARG:H	1.94	0.65
1:AA:748:C:H1'	1:AA:749:C:C5	2.30	0.65
18:B3:95:A:C5'	18:B3:96:A:H3'	2.27	0.65
1:AA:989:C:C5	1:AA:1016:A:C2	2.84	0.65
1:AA:1320:C:C2	17:AS:118:GLU:N	2.64	0.65
1:AA:1309:G:N7	13:AM:92:ILE:HG22	0.99	0.65
1:AA:1227:A:OP1	17:AS:125:PRO:CG	2.44	0.65
9:AI:50:PRO:CB	9:AI:115:LEU:HD13	2.27	0.65
19:B4:30:C:C2	24:BE:57:ASN:CB	2.69	0.65
18:B3:2368:A:C3'	24:BE:31:TYR:CE2	2.79	0.65
36:BQ:64:VAL:HB	36:BQ:74:VAL:HG22	1.78	0.65
18:B3:1352:A:H5'	23:BD:102:THR:HG22	1.66	0.65
23:BD:140:ARG:NH2	23:BD:178:LEU:HD22	2.12	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2768:A:C8	22:BC:345:THR:HG23	2.31	0.65
18:B3:2655:U:HO2'	22:BC:265:ARG:HB3	1.59	0.65
22:BC:21:ALA:HB2	22:BC:272:HIS:O	1.96	0.65
31:BL:42:THR:HG21	31:BL:120:VAL:HG11	1.77	0.65
18:B3:1794:G:H5'	35:BP:97:ARG:CG	2.19	0.65
18:B3:2335:C:C5	29:BJ:117:PRO:O	2.49	0.65
18:B3:124:C:H5	39:BT:88:LYS:HG3	1.59	0.65
1:AA:401:C:C2'	1:AA:621:A:N3	2.58	0.65
3:AB:67:PRO:HB2	3:AB:183:LEU:CD2	2.26	0.65
6:AE:219:ASN:C	8:AH:99:GLY:CA	2.63	0.65
27:BH:112:ILE:HG22	27:BH:125:ASN:OD1	1.96	0.65
43:BW:8:THR:HG22	43:BW:73:ARG:CZ	2.26	0.65
18:B3:2457:U:H4'	46:BZ:82:LEU:C	2.17	0.65
1:AA:1497:G:C8	1:AA:1517:G:C6	2.85	0.65
1:AA:1522:U:O2'	1:AA:1523:G:H5'	1.95	0.65
40:BU:72:SER:HB2	40:BU:81:GLN:HB3	1.79	0.65
40:BU:86:THR:CG2	40:BU:97:ILE:HG23	2.25	0.65
18:B3:1235:G:N7	32:BM:68:GLY:O	2.29	0.65
4:AC:141:LEU:HD23	4:AC:142:ARG:N	2.12	0.65
4:AC:102:GLU:HG2	4:AC:172:ARG:CD	2.26	0.65
18:B3:1529:G:H5''	21:BB:69:ARG:HD2	1.77	0.65
10:AJ:84:MET:HA	10:AJ:84:MET:HE2	1.78	0.65
1:AA:954:G:H21	1:AA:1227:A:H62	1.43	0.65
1:AA:1309:G:H4'	13:AM:112:ASP:CB	2.24	0.65
13:AM:91:ASP:OD1	13:AM:110:ARG:C	2.35	0.65
1:AA:1328:C:H1'	13:AM:96:LYS:HD2	1.77	0.65
17:AS:56:PHE:CB	17:AS:80:MET:HG3	2.25	0.65
18:B3:538:C:OP2	42:B0:20:HIS:HB2	1.96	0.65
9:AI:99:GLN:H	9:AI:106:LYS:N	1.95	0.65
9:AI:50:PRO:HB3	9:AI:115:LEU:HD13	1.77	0.65
9:AI:89:VAL:HG23	9:AI:96:VAL:CB	2.21	0.65
10:AJ:28:SER:HB3	10:AJ:34:LEU:CD2	2.26	0.65
24:BE:75:LEU:HD11	24:BE:109:THR:HG23	1.78	0.65
36:BQ:34:TYR:CE1	36:BQ:97:LYS:HD3	2.30	0.65
1:AA:320:C:O2	1:AA:1435:G:C4'	2.40	0.65
18:B3:27:U:O2	18:B3:1319:G:N3	2.28	0.65
34:BO:63:SER:HA	34:BO:88:THR:HG23	1.77	0.65
18:B3:764:C:O4'	23:BD:86:GLN:HG2	1.95	0.65
18:B3:1184:A:OP1	30:BK:102:GLY:HA2	1.96	0.65
18:B3:1851:G:H5''	21:BB:244:LEU:C	2.17	0.65
21:BB:116:GLU:OE2	21:BB:161:ALA:HA	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:98:C:O2'	25:BF:221:HIS:HB2	1.96	0.65
1:AA:190(F):G:OP2	16:AQ:109:HIS:NE2	2.29	0.65
1:AA:537:G:C4'	12:AL:143:PRO:CG	2.74	0.65
18:B3:71:G:O2'	44:BX:49:LYS:HA	1.95	0.65
18:B3:2709:G:C6	37:BR:7:GLN:NE2	2.63	0.65
18:B3:2614:C:H1'	22:BC:240:LYS:HD3	0.72	0.65
22:BC:302:LYS:HE3	22:BC:305:THR:HB	1.78	0.65
18:B3:2720:C:H5''	38:BS:33:ASN:HD21	0.57	0.65
18:B3:265:U:H5'	31:BL:54:ALA:O	1.97	0.65
31:BL:65:VAL:HG23	31:BL:66:ARG:O	1.96	0.65
35:BP:83:THR:HG23	35:BP:85:GLU:H	1.61	0.65
10:AJ:69:LYS:CG	14:AN:39:ARG:NH1	2.60	0.65
1:AA:524:G:H2'	1:AA:525:C:C6	2.31	0.65
37:BR:35:TYR:CZ	37:BR:61:THR:HB	2.31	0.65
27:BH:107:ASP:HB3	27:BH:128:VAL:N	2.12	0.65
18:B3:2704:C:O2'	27:BH:122:LYS:HE2	1.95	0.65
43:BW:6:VAL:HA	43:BW:74:ILE:O	1.96	0.65
46:BZ:20:THR:HG22	46:BZ:21:GLN:N	2.12	0.65
18:B3:697:G:C5'	41:BV:132:LEU:CD2	2.60	0.65
45:BY:41:ALA:O	45:BY:42:LYS:HG3	1.97	0.65
6:AE:100:VAL:HG13	6:AE:112:LEU:HD21	1.77	0.65
20:BA:23:THR:HG23	20:BA:25:LYS:H	1.60	0.65
1:AA:1177:G:C5'	9:AI:106:LYS:CA	2.50	0.65
24:BE:103:LEU:HB2	24:BE:165:GLY:HA3	1.78	0.65
1:AA:335:C:O5'	1:AA:1434:A:C4'	2.42	0.65
42:B0:105:ARG:H	42:B0:107:VAL:HG22	1.62	0.65
23:BD:30:ARG:O	23:BD:34:VAL:HG13	1.97	0.65
18:B3:449:A:C2'	23:BD:46:ARG:CZ	2.70	0.65
30:BK:113:ALA:CB	30:BK:128:VAL:HG23	2.25	0.65
18:B3:1164:U:C5'	30:BK:47:ALA:HB1	2.26	0.65
21:BB:172:GLY:H	47:B9:67:ALA:CB	2.09	0.65
1:AA:190(C):C:H42	16:AQ:111:SER:HB2	1.60	0.65
22:BC:15:PHE:HD2	22:BC:18:ARG:CD	2.09	0.65
28:BI:38:LYS:HD2	28:BI:39:LYS:O	1.97	0.65
31:BL:42:THR:HG21	31:BL:120:VAL:HG13	1.79	0.65
29:BJ:20:ILE:HG13	29:BJ:21:SER:N	2.12	0.65
20:BA:6:SER:O	20:BA:9:VAL:HG22	1.96	0.65
6:AE:219:ASN:C	8:AH:99:GLY:HA3	2.17	0.65
2:AT:464:LEU:CD1	2:AT:510:ARG:HG3	2.27	0.65
1:AA:1373:G:O4'	7:AG:104:GLY:O	2.14	0.65
18:B3:2705:U:H5''	27:BH:122:LYS:HZ1	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2705:U:H4'	27:BH:122:LYS:HZ3	0.75	0.65
27:BH:20:ILE:HB	27:BH:25:VAL:HA	1.78	0.65
27:BH:8:GLN:HG3	27:BH:9:GLN:N	2.12	0.65
32:BM:139:LYS:O	32:BM:139:LYS:HD3	1.97	0.65
35:BP:41:ARG:HH12	35:BP:49:ILE:HG21	1.60	0.65
18:B3:1130:U:H2'	18:B3:1131:G:O4'	1.96	0.65
18:B3:2407:G:N2	46:BZ:10:TYR:OH	2.28	0.65
41:BV:97:THR:OG1	41:BV:124:VAL:HA	1.96	0.65
1:AA:1395:C:O2'	1:AA:1397:C:P	2.54	0.65
1:AA:287:U:O2'	1:AA:288:A:H5'	1.96	0.65
3:AB:73:VAL:HG23	3:AB:117:PRO:CB	2.24	0.65
18:B3:1173:A:P	30:BK:40:LYS:HE2	2.36	0.65
24:BE:61:ILE:HA	24:BE:79:TYR:HB3	1.78	0.65
1:AA:393:A:O2'	1:AA:394:G:H5'	1.95	0.65
1:AA:989:C:O2	1:AA:1015:A:H2'	1.97	0.65
1:AA:1298:C:H3'	13:AM:57:ARG:HH22	1.49	0.65
42:B0:41:VAL:HA	42:B0:44:ARG:NH2	2.12	0.65
1:AA:1278:U:H5''	1:AA:1279:A:H5'	1.77	0.65
9:AI:99:GLN:N	9:AI:105:LYS:N	2.44	0.65
10:AJ:61:LYS:N	10:AJ:61:LYS:HD3	2.09	0.65
19:B4:118:C:O3'	24:BE:68:THR:CG2	2.32	0.65
33:BN:43:ALA:CA	33:BN:46:TYR:HB2	2.15	0.65
18:B3:517:U:H4'	18:B3:1339:G:C8	2.31	0.65
18:B3:449:A:H61	18:B3:1349:G:C4'	2.08	0.65
23:BD:178:LEU:O	23:BD:178:LEU:HD23	1.97	0.65
34:BO:101:VAL:HG12	34:BO:102:ALA:H	1.61	0.65
34:BO:40:THR:OG1	34:BO:132:PRO:HB2	1.97	0.65
18:B3:53:C:C5'	18:B3:121:U:H2'	2.26	0.65
25:BF:177:ILE:HG22	25:BF:183:LEU:CD2	2.25	0.65
25:BF:91:ILE:HG13	25:BF:99:ARG:CG	2.25	0.65
18:B3:2468:A:C2	46:BZ:54:LYS:C	2.70	0.65
18:B3:2283:G:C8	28:BI:106:ALA:CB	2.80	0.65
18:B3:2713:G:C5'	37:BR:44:SER:C	2.65	0.65
22:BC:15:PHE:CD2	22:BC:18:ARG:HD2	2.32	0.65
22:BC:231:ARG:HB3	22:BC:232:TRP:CZ3	2.31	0.65
18:B3:2763:G:P	37:BR:14:SER:CB	2.83	0.65
31:BL:146:ARG:N	31:BL:146:ARG:HH11	1.94	0.65
31:BL:48:ARG:H	31:BL:52:TYR:HB3	1.62	0.65
31:BL:99:ALA:O	31:BL:102:GLU:HG3	1.97	0.65
29:BJ:48:LYS:HG2	29:BJ:49:ALA:H	1.61	0.65
20:BA:67:ILE:HD12	20:BA:144:LEU:CD2	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:71:PRO:HD2	14:AN:42:PHE:CB	2.22	0.65
18:B3:1943:C:H5'	21:BB:218:ILE:HD11	1.66	0.65
2:AT:108:HIS:CE1	2:AT:540:ILE:HG21	2.32	0.65
18:B3:1245:C:N4	32:BM:124:ARG:CD	2.59	0.65
40:BU:53:ASP:CB	40:BU:110:HIS:HB2	2.26	0.65
40:BU:35:LEU:HD22	40:BU:40:ARG:HA	1.78	0.65
40:BU:45:ILE:HD13	40:BU:46:LYS:N	2.10	0.65
18:B3:81:G:H5'	40:BU:74:TYR:O	1.97	0.65
41:BV:10:HIS:HA	41:BV:13:HIS:CE1	2.32	0.65
1:AA:668:G:H1'	15:AO:104:ASN:HD21	0.96	0.65
40:BU:13:ARG:C	40:BU:17:LYS:HG2	2.17	0.65
18:B3:1154:A:OP2	18:B3:1156:C:H5	1.78	0.65
18:B3:269:G:OP1	18:B3:274:G:H4'	1.97	0.65
22:BC:295:THR:HG22	22:BC:296:SER:N	2.10	0.65
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.30	0.65
1:AA:1487:G:O2'	1:AA:1488:G:H5'	1.96	0.65
2:AT:500:ASP:HB3	2:AT:552:VAL:HG11	1.79	0.65
18:B3:601:G:O2'	18:B3:602:A:H5'	1.96	0.65
1:AA:1014:A:O2'	1:AA:1218:C:O2	2.14	0.65
13:AM:117:LYS:HB3	13:AM:128:PHE:CE1	2.25	0.65
42:B0:17:PHE:HD2	42:B0:32:TRP:CB	2.10	0.65
9:AI:89:VAL:HG21	9:AI:101:LYS:HG2	1.79	0.65
18:B3:2401:A:C1'	36:BQ:7:TYR:HH	2.09	0.65
19:B4:34:A:O4'	24:BE:203:HIS:O	2.06	0.65
24:BE:135:VAL:HG21	24:BE:142:PHE:HE1	1.62	0.65
24:BE:33:ARG:NH2	24:BE:34:LYS:HA	2.12	0.65
24:BE:68:THR:HG22	24:BE:69:ILE:N	2.12	0.65
33:BN:123:LYS:HG2	33:BN:124:GLN:O	1.97	0.65
42:B0:79:VAL:HG21	42:B0:108:ILE:O	1.97	0.65
18:B3:452:G:H8	23:BD:193:TYR:CD2	2.15	0.65
31:BL:83:PRO:HB2	31:BL:86:GLN:HB2	1.77	0.65
18:B3:1133:A:C6	18:B3:2501:G:C1'	2.79	0.65
18:B3:2806:C:C5'	22:BC:343:THR:CB	2.75	0.65
22:BC:20:ARG:NH1	22:BC:20:ARG:H	1.95	0.65
22:BC:217:ILE:HG22	22:BC:275:THR:HB	1.78	0.65
18:B3:2839:C:O3'	22:BC:224:GLY:HA3	1.96	0.65
18:B3:2808:U:C5'	22:BC:274:ARG:HB2	2.17	0.65
22:BC:310:PHE:CE2	22:BC:311:VAL:HG23	2.31	0.65
26:BG:157:ASP:HB2	26:BG:159:ILE:CD1	2.26	0.65
18:B3:1794:G:P	35:BP:97:ARG:CD	2.84	0.65
18:B3:1814:G:H3'	18:B3:2733:U:N1	2.12	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1814:G:C8	18:B3:2731:G:C2	2.80	0.65
18:B3:2334:C:C4'	29:BJ:113:ILE:H	2.09	0.65
18:B3:2345:A:H5'	29:BJ:48:LYS:HE3	1.78	0.65
1:AA:616:G:H3'	5:AD:146:PHE:CZ	2.31	0.65
1:AA:6:G:OP2	5:AD:88:GLU:HA	1.97	0.65
1:AA:621:A:OP2	5:AD:143:ILE:CG2	2.45	0.65
18:B3:1118:A:H3'	18:B3:1118:A:C8	2.32	0.65
27:BH:65:VAL:O	27:BH:69:ARG:HG3	1.96	0.65
18:B3:1385:G:P	43:BW:36:LYS:HE2	2.37	0.65
18:B3:2408:A:C4	46:BZ:19:HIS:NE2	2.64	0.65
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.32	0.65
40:BU:63:LYS:HD2	40:BU:63:LYS:N	2.12	0.65
41:BV:74:LEU:CD2	41:BV:137:ILE:HD11	2.27	0.65
41:BV:69:LYS:CG	41:BV:70:PRO:HA	2.26	0.65
1:AA:597:G:H5'	16:AQ:99:TYR:CG	2.32	0.65
6:AE:113:GLY:CA	6:AE:130:ILE:HG23	2.26	0.65
4:AC:181:LEU:N	4:AC:181:LEU:HD12	2.12	0.65
5:AD:113:VAL:HG23	5:AD:125:ALA:CB	2.18	0.65
18:B3:289:G:O2'	18:B3:290:C:H5'	1.97	0.65
21:BB:142:GLU:CG	21:BB:144:LYS:HE3	2.27	0.65
18:B3:1667:A:H2'	18:B3:1668:U:C6	2.31	0.65
1:AA:987:G:C6	1:AA:1014:A:C2	2.85	0.65
1:AA:989:C:C2	1:AA:1016:A:C1'	2.80	0.65
1:AA:1219:U:H4'	17:AS:59:LYS:N	1.65	0.65
42:B0:34:LYS:HA	42:B0:34:LYS:HZ3	1.62	0.65
42:B0:43:ARG:HG3	42:B0:44:ARG:N	2.11	0.65
18:B3:540:A:H5'	42:B0:18:LYS:H	1.61	0.65
1:AA:1177:G:C5	9:AI:106:LYS:HD2	2.31	0.65
9:AI:42:ILE:O	9:AI:42:ILE:HG13	1.97	0.65
9:AI:51:LEU:CD2	9:AI:84:ILE:HG12	2.21	0.65
9:AI:98:GLU:N	9:AI:105:LYS:N	2.45	0.65
18:B3:492:C:O2'	33:BN:100:ASN:HA	1.95	0.65
18:B3:2052:U:OP2	33:BN:23:VAL:HG22	1.97	0.65
33:BN:40:LEU:HD11	33:BN:108:ALA:O	1.96	0.65
18:B3:1308:A:HO2'	23:BD:204:PRO:CB	1.99	0.65
18:B3:449:A:OP1	23:BD:45:LYS:CB	2.44	0.65
30:BK:32:ILE:HD12	30:BK:37:LEU:CD2	2.08	0.65
47:B9:47:LYS:HZ2	47:B9:48:ARG:HD2	1.62	0.65
21:BB:237:ILE:H	21:BB:237:ILE:HD12	1.62	0.65
25:BF:83:VAL:CG1	25:BF:116:VAL:HB	2.26	0.65
18:B3:2468:A:C2	46:BZ:55:PRO:HD3	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:81:PRO:HG3	22:BC:204:VAL:H	1.61	0.65
28:BI:58:GLU:CG	28:BI:128:ARG:HG2	2.22	0.65
28:BI:34:TYR:HB2	28:BI:89:VAL:CG2	2.26	0.65
26:BG:119:LYS:CG	26:BG:188:LEU:HG	2.26	0.65
18:B3:1788:U:C2	18:B3:2875:A:N6	2.64	0.65
38:BS:54:LEU:HD23	38:BS:54:LEU:O	1.97	0.65
18:B3:2350:G:N2	29:BJ:116:ASP:CG	2.50	0.65
29:BJ:18:LEU:H	29:BJ:68:VAL:CB	2.09	0.65
18:B3:1675:C:C5	39:BT:112:LEU:C	2.69	0.65
18:B3:1676:G:C5'	39:BT:115:PRO:CA	2.71	0.65
5:AD:150:LEU:CD2	5:AD:189:ASP:HA	2.26	0.65
6:AE:157:THR:CB	8:AH:127:PHE:CZ	2.79	0.65
27:BH:167:VAL:HG23	27:BH:170:LYS:NZ	2.11	0.65
27:BH:18:VAL:CG1	27:BH:48:VAL:HG22	2.27	0.65
27:BH:46:THR:HG22	27:BH:55:VAL:N	2.11	0.65
27:BH:67:ALA:HB3	32:BM:127:ARG:CA	2.15	0.65
32:BM:45:GLU:HG2	32:BM:133:LYS:HG2	1.79	0.65
18:B3:1381:A:C6	43:BW:25:LYS:O	2.50	0.65
35:BP:13:VAL:O	35:BP:14:VAL:HG23	1.95	0.65
35:BP:41:ARG:HH11	35:BP:44:VAL:HB	1.58	0.65
35:BP:51:LYS:HG3	35:BP:52:LYS:H	1.62	0.65
43:BW:16:HIS:HE1	43:BW:31:ALA:HA	1.60	0.65
46:BZ:66:LYS:CA	46:BZ:86:ARG:HD3	2.25	0.65
18:B3:698:A:P	41:BV:132:LEU:O	2.55	0.65
32:BM:90:LYS:HE3	32:BM:90:LYS:H	1.61	0.65
29:BJ:8:MET:HE2	29:BJ:9:ARG:HG2	1.79	0.65
26:BG:182:LYS:HD3	26:BG:183:ALA:H	1.62	0.65
26:BG:173:GLY:O	26:BG:175:PRO:HD3	1.97	0.65
1:AA:1316:G:N1	17:AS:49:MET:SD	2.70	0.65
18:B3:1689:A:C6	33:BN:128:THR:CG2	2.66	0.65
24:BE:151:GLN:HG2	24:BE:152:ARG:N	2.11	0.65
24:BE:17:GLN:N	36:BQ:19:PHE:CE2	2.65	0.65
33:BN:40:LEU:HD21	33:BN:108:ALA:O	1.96	0.65
23:BD:166:ALA:O	23:BD:169:LYS:HG2	1.97	0.65
34:BO:115:VAL:HG12	34:BO:116:LYS:N	2.12	0.65
18:B3:170:U:C6	46:BZ:49:PHE:HZ	1.98	0.65
18:B3:1167:G:C1'	30:BK:110:ILE:HB	2.27	0.65
25:BF:169:GLU:OE1	25:BF:172:LEU:HA	1.97	0.65
1:AA:190(F):G:O6	1:AA:266:G:OP2	2.14	0.65
18:B3:1206:C:H2'	18:B3:1207:A:O4'	1.96	0.65
18:B3:2670:G:O2'	18:B3:2671:U:H5'	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:231:ARG:HD3	22:BC:232:TRP:HE3	1.61	0.65
18:B3:2820:A:O2'	22:BC:89:VAL:HG12	1.97	0.65
28:BI:100:ASN:CG	28:BI:112:GLN:HE21	2.00	0.65
28:BI:70:ILE:HG22	28:BI:73:ASN:OD1	1.96	0.65
37:BR:87:ARG:HA	37:BR:92:PHE:HD2	1.62	0.65
18:B3:1814:G:H3'	18:B3:2733:U:N3	2.12	0.65
18:B3:2737:C:N1	35:BP:60:SER:HB3	2.12	0.65
29:BJ:16:LEU:HD11	29:BJ:75:ALA:HB1	1.77	0.65
5:AD:134:ILE:O	5:AD:140:ILE:HG13	1.96	0.65
12:AL:92:CYS:SG	12:AL:93:LEU:HD22	2.37	0.65
27:BH:12:VAL:HG22	27:BH:13:PRO:HA	1.77	0.65
27:BH:129:ARG:CG	27:BH:156:GLN:HE22	2.09	0.65
32:BM:58:ARG:O	32:BM:58:ARG:HD3	1.96	0.65
35:BP:42:LYS:C	35:BP:42:LYS:HD2	2.17	0.65
18:B3:1231:A:C2'	18:B3:2553:A:C6	2.79	0.65
40:BU:63:LYS:HE2	40:BU:85:VAL:HG23	1.79	0.65
1:AA:918:A:H2'	1:AA:919:A:C8	2.31	0.65
18:B3:399:C:OP1	31:BL:180:ASN:CG	2.34	0.65
18:B3:2633:A:OP1	21:BB:213:GLY:HA2	1.97	0.65
2:AT:500:ASP:CB	2:AT:552:VAL:HG11	2.27	0.65
2:AT:369:ILE:HD13	2:AT:402:ALA:HB2	1.79	0.65
9:AI:8:THR:HG21	9:AI:83:ALA:O	1.97	0.65
19:B4:29:C:C2'	19:B4:30:C:H5'	2.26	0.65
18:B3:2052:U:P	33:BN:24:SER:H	2.20	0.65
33:BN:35:ILE:HG13	33:BN:43:ALA:HB1	1.78	0.65
18:B3:1309:U:C6	23:BD:202:ARG:O	2.45	0.65
34:BO:60:PRO:CB	34:BO:85:GLY:HA3	2.27	0.65
18:B3:111:C:H5'	18:B3:122:C:N4	2.12	0.65
18:B3:891:G:H5''	23:BD:54:LYS:NZ	2.12	0.65
18:B3:170:U:H5''	31:BL:82:LYS:CB	2.26	0.65
47:B9:47:LYS:HA	47:B9:47:LYS:HZ2	1.62	0.65
18:B3:1652:C:HO2'	21:BB:187:LYS:HG3	1.62	0.65
16:AQ:109:HIS:CB	16:AQ:130:ILE:HD13	2.27	0.65
18:B3:67:A:H1'	39:BT:60:LYS:NZ	2.11	0.65
18:B3:2765:C:O2'	22:BC:325:GLY:HA3	1.96	0.65
22:BC:229:THR:HG23	22:BC:246:ARG:HB3	1.79	0.65
22:BC:52:MET:SD	22:BC:77:VAL:HG13	2.36	0.65
28:BI:53:VAL:O	28:BI:163:GLN:HG3	1.96	0.65
31:BL:60:ILE:HG22	31:BL:132:ILE:HG12	1.77	0.65
31:BL:161:ARG:HG3	31:BL:168:LYS:NZ	2.12	0.65
35:BP:96:ARG:HA	35:BP:96:ARG:NE	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:924:G:N7	41:BV:41:ARG:CZ	2.60	0.65
29:BJ:140:ARG:NE	29:BJ:140:ARG:HA	2.12	0.65
18:B3:1676:G:H8	39:BT:113:VAL:CG2	2.10	0.65
1:AA:560:U:C2	1:AA:565:U:C5	2.84	0.65
6:AE:155:THR:HG21	8:AH:112:HIS:HE1	1.56	0.65
1:AA:551:U:N3	12:AL:47:SER:OG	2.30	0.65
2:AT:140:GLU:H	2:AT:481:MET:CG	2.08	0.65
37:BR:60:ALA:H	37:BR:74:MET:HG3	1.62	0.65
18:B3:1115:U:C5'	18:B3:1140:C:O2	2.44	0.65
1:AA:712:A:H61	11:AK:124:SER:CA	2.09	0.65
35:BP:14:VAL:HG12	35:BP:16:VAL:HG13	1.79	0.65
46:BZ:22:HIS:CE1	46:BZ:73:CYS:HA	2.30	0.65
1:AA:1499:A:C6	1:AA:1519:A:H2'	2.32	0.65
6:AE:204:ARG:HB3	6:AE:207:GLU:CB	2.27	0.65
18:B3:907:A:H8	18:B3:1328:A:C2'	2.09	0.65
40:BU:14:LYS:HE2	40:BU:15:ALA:N	2.12	0.65
40:BU:14:LYS:CD	40:BU:17:LYS:HE3	2.20	0.65
21:BB:201:VAL:HG11	21:BB:216:GLN:CA	2.26	0.65
4:AC:121:VAL:CG2	4:AC:135:VAL:HG21	2.26	0.65
32:BM:83:LEU:HB3	32:BM:84:ARG:HH11	1.61	0.65
3:AB:58:LEU:CD1	3:AB:61:ARG:HH22	2.09	0.65
1:AA:990:C:C6	1:AA:1017:G:O4'	2.50	0.64
13:AM:69:ILE:HG13	13:AM:70:VAL:N	2.12	0.64
1:AA:1309:G:N7	13:AM:92:ILE:HG21	0.80	0.64
1:AA:1318:A:N6	17:AS:56:PHE:CZ	2.65	0.64
18:B3:844:A:OP2	33:BN:130:ARG:CB	2.25	0.64
18:B3:537:G:H2'	42:B0:41:VAL:CG1	2.25	0.64
10:AJ:49:ASN:CB	10:AJ:99:ILE:HG12	2.27	0.64
33:BN:93:LEU:HG	33:BN:94:LEU:N	2.11	0.64
42:B0:85:LEU:CD2	42:B0:117:ILE:HG21	2.27	0.64
42:B0:72:LYS:N	42:B0:90:LYS:HB2	2.12	0.64
18:B3:26:U:C2'	18:B3:1320:U:H6	2.10	0.64
18:B3:26:U:O2	18:B3:1320:U:O4'	1.96	0.64
18:B3:52:A:H8	18:B3:121:U:O2	1.76	0.64
18:B3:764:C:C2'	23:BD:86:GLN:HB2	2.18	0.64
18:B3:1164:U:H5	30:BK:49:ALA:O	1.80	0.64
18:B3:782:G:H4'	21:BB:189:ARG:NH1	2.04	0.64
25:BF:102:LEU:HD12	25:BF:129:ILE:HG21	1.79	0.64
18:B3:1206:C:HO2'	18:B3:1207:A:C5'	2.01	0.64
18:B3:2846:C:C2'	22:BC:172:GLN:OE1	2.46	0.64
22:BC:112:GLU:HB2	22:BC:173:LYS:CB	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:162:HIS:HD2	22:BC:175:ALA:CB	2.10	0.64
22:BC:81:PRO:CD	22:BC:204:VAL:HG13	2.27	0.64
22:BC:251:ILE:HG22	22:BC:259:VAL:HG11	1.79	0.64
22:BC:75:VAL:CG2	22:BC:326:CYS:HB3	2.26	0.64
28:BI:39:LYS:C	28:BI:40:LYS:HD3	2.17	0.64
18:B3:2737:C:C5	35:BP:60:SER:C	2.71	0.64
35:BP:94:TRP:CH2	35:BP:95:ILE:HG23	2.31	0.64
18:B3:2333:G:H2'	29:BJ:114:LYS:HG2	1.79	0.64
18:B3:2347:C:C5	29:BJ:66:VAL:HG13	2.04	0.64
18:B3:1676:G:H4'	39:BT:115:PRO:CG	2.23	0.64
39:BT:113:VAL:HG23	39:BT:114:ARG:N	2.11	0.64
39:BT:73:LYS:O	39:BT:76:GLU:HB3	1.97	0.64
1:AA:560:U:O2'	1:AA:563:A:N9	2.28	0.64
8:AH:101:VAL:HB	8:AH:127:PHE:CD2	2.32	0.64
2:AT:465:LYS:NZ	2:AT:518:VAL:HG11	2.12	0.64
27:BH:27:VAL:C	27:BH:33:THR:HG23	2.18	0.64
32:BM:15:VAL:HG22	32:BM:42:ILE:HG22	1.79	0.64
40:BU:31:LEU:HG	40:BU:78:PHE:HB3	1.79	0.64
15:AO:120:ARG:O	15:AO:124:LEU:HG	1.97	0.64
1:AA:970:C:C5	9:AI:142:ARG:NH2	2.40	0.64
32:BM:89:HIS:O	32:BM:95:LYS:HB3	1.97	0.64
1:AA:1286:A:H8	1:AA:1287:A:H5''	1.62	0.64
7:AG:195:GLU:O	7:AG:198:ILE:HG22	1.97	0.64
2:AT:378:LEU:H	2:AT:471:THR:CG2	2.11	0.64
18:B3:2568:A:H5''	18:B3:2702:A:O2'	1.96	0.64
24:BE:131:LEU:HG	24:BE:132:THR:N	2.12	0.64
1:AA:1220:G:C2'	17:AS:95:GLY:O	2.45	0.64
18:B3:1689:A:H2	33:BN:128:THR:OG1	1.75	0.64
45:BY:9:LYS:HE2	45:BY:10:ARG:N	2.13	0.64
42:B0:27:ARG:CZ	42:B0:28:VAL:HA	2.27	0.64
1:AA:1248:A:N3	9:AI:73:HIS:CE1	2.65	0.64
19:B4:8:G:C6	24:BE:21:ARG:HD3	2.31	0.64
24:BE:108:ARG:NE	24:BE:108:ARG:HA	2.11	0.64
18:B3:1019:C:H4'	36:BQ:61:THR:HG21	1.76	0.64
33:BN:115:HIS:HB3	33:BN:148:VAL:CG2	2.16	0.64
33:BN:35:ILE:HB	33:BN:43:ALA:CB	2.26	0.64
33:BN:85:LYS:HE3	33:BN:88:LYS:HZ3	1.61	0.64
42:B0:76:VAL:HG13	42:B0:81:ASP:OD2	1.98	0.64
18:B3:678:G:OP1	23:BD:259:GLN:O	0.65	0.64
23:BD:130:VAL:HG22	23:BD:131:ALA:H	1.62	0.64
23:BD:180:VAL:HG12	23:BD:181:LEU:N	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:81:VAL:H	34:BO:101:VAL:HG21	1.61	0.64
18:B3:1855:G:O6	21:BB:150:PRO:N	2.30	0.64
21:BB:122:ARG:HE	21:BB:123:GLY:H	1.46	0.64
25:BF:157:LYS:HE2	25:BF:159:ARG:HH22	1.62	0.64
25:BF:161:PRO:O	25:BF:162:LEU:HD13	1.97	0.64
18:B3:2527:U:OP1	18:B3:2605:G:OP1	2.16	0.64
18:B3:2489:G:O2'	18:B3:2490:A:C8	2.50	0.64
18:B3:2846:C:OP1	22:BC:176:HIS:HB3	1.96	0.64
22:BC:161:VAL:HG23	22:BC:177:LEU:CB	2.24	0.64
18:B3:2547:C:H4'	22:BC:248:VAL:HG13	1.77	0.64
22:BC:324:LYS:N	22:BC:324:LYS:HE3	2.13	0.64
22:BC:32:PRO:HA	22:BC:342:TYR:CD1	2.31	0.64
22:BC:46:LEU:HD12	22:BC:47:GLY:H	1.62	0.64
28:BI:44:ASP:HA	28:BI:46:PHE:CE2	2.32	0.64
28:BI:51:HIS:CA	28:BI:52:LEU:HD13	2.27	0.64
26:BG:130:ALA:HB2	26:BG:202:VAL:CG2	2.27	0.64
18:B3:265:U:H4'	31:BL:55:LYS:HD3	1.80	0.64
18:B3:2349:G:C5'	29:BJ:15:LYS:HD2	2.28	0.64
29:BJ:69:THR:O	29:BJ:70:VAL:HG13	1.96	0.64
1:AA:24:U:H5''	12:AL:39:LYS:HD2	1.78	0.64
27:BH:112:ILE:HG23	27:BH:113:GLU:OE2	1.98	0.64
1:AA:712:A:H61	11:AK:124:SER:CB	2.10	0.64
18:B3:2408:A:N3	46:BZ:19:HIS:CD2	2.65	0.64
46:BZ:21:GLN:HG2	46:BZ:74:VAL:HG12	1.80	0.64
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.96	0.64
18:B3:78:G:C2'	40:BU:27:ARG:NH2	2.61	0.64
40:BU:39:LEU:HA	40:BU:42:GLN:HG2	1.78	0.64
1:AA:119:A:C2	1:AA:238:G:C4	2.85	0.64
15:AO:112:PHE:HA	15:AO:115:ILE:HD12	1.78	0.64
18:B3:2019:A:H1'	47:B9:17:TYR:HE2	1.62	0.64
21:BB:204:ASN:HB2	21:BB:212:GLY:N	2.13	0.64
15:AO:87:LEU:HD22	15:AO:121:ILE:HG23	1.79	0.64
32:BM:26:LEU:CD1	32:BM:97:ALA:HB1	2.27	0.64
8:AH:48:GLU:HG2	8:AH:49:PHE:N	2.11	0.64
15:AO:96:SER:O	15:AO:99:LYS:HB3	1.96	0.64
13:AM:66:LEU:HD23	13:AM:66:LEU:O	1.97	0.64
18:B3:618:G:C8	42:B0:46:PHE:CG	2.80	0.64
19:B4:8:G:N7	24:BE:21:ARG:CG	2.59	0.64
18:B3:28:G:O3'	18:B3:1343:C:H5'	1.97	0.64
23:BD:225:GLU:CG	23:BD:236:GLN:HG3	2.22	0.64
23:BD:245:ARG:NH1	23:BD:245:ARG:HA	2.12	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:38:PHE:HA	23:BD:41:VAL:CG2	2.27	0.64
34:BO:63:SER:HB3	34:BO:90:ASP:CG	2.18	0.64
21:BB:176:LYS:HZ3	21:BB:176:LYS:H	1.45	0.64
18:B3:1860:U:O2	21:BB:9:LYS:HD2	1.96	0.64
18:B3:1054:G:P	28:BI:14:ASN:OD1	2.54	0.64
18:B3:1134:G:C4'	18:B3:1229:C:H5'	2.27	0.64
18:B3:2037:C:C5	18:B3:2762:C:OP1	2.51	0.64
18:B3:2837:U:O2	22:BC:334:ILE:CG1	2.46	0.64
22:BC:162:HIS:CA	22:BC:177:LEU:HG	2.27	0.64
31:BL:186:ARG:HD3	31:BL:187:ARG:N	2.12	0.64
35:BP:70:ARG:O	35:BP:70:ARG:HG2	1.97	0.64
18:B3:1761:U:O4'	35:BP:80:ARG:NH2	2.29	0.64
18:B3:1445:G:OP1	39:BT:69:GLU:N	2.31	0.64
14:AN:29:LEU:HD12	14:AN:38:CYS:HA	1.78	0.64
10:AJ:69:LYS:HE3	14:AN:39:ARG:NH1	2.11	0.64
3:AB:176:LEU:HD12	3:AB:177:ALA:N	2.11	0.64
6:AE:138:ILE:CG1	6:AE:217:ILE:HD11	2.27	0.64
1:AA:520:A:OP1	12:AL:70:LYS:CE	2.37	0.64
18:B3:1993:C:H5''	37:BR:70:ARG:NH2	2.12	0.64
18:B3:1225:C:H4'	18:B3:1248:A:N1	2.11	0.64
40:BU:61:GLY:O	40:BU:63:LYS:HD2	1.97	0.64
1:AA:1344:C:OP2	9:AI:136:ARG:NE	2.30	0.64
1:AA:294:U:OP2	1:AA:610:G:N3	2.29	0.64
1:AA:293:G:C5'	1:AA:610:G:C2	2.78	0.64
40:BU:17:LYS:HZ2	40:BU:18:ALA:N	1.95	0.64
31:BL:177:HIS:CD2	31:BL:178:LYS:HG2	2.29	0.64
18:B3:1355:A:OP1	18:B3:1355:A:H4'	1.98	0.64
4:AC:167:ILE:CD1	4:AC:188:MET:HA	2.27	0.64
18:B3:337:A:C2	18:B3:1314:U:O2'	2.50	0.64
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.27	0.64
13:AM:84:TRP:HE3	13:AM:101:LEU:HD21	1.62	0.64
42:B0:41:VAL:HG13	42:B0:42:VAL:N	2.12	0.64
9:AI:50:PRO:CG	9:AI:115:LEU:HD13	2.27	0.64
9:AI:99:GLN:NE2	9:AI:113:ARG:HB2	2.11	0.64
24:BE:20:PHE:CB	24:BE:24:ARG:HB2	2.26	0.64
33:BN:69:THR:HG22	33:BN:70:ALA:N	2.13	0.64
42:B0:101:SER:HB2	42:B0:105:ARG:HB2	1.78	0.64
18:B3:1310:U:C5	23:BD:202:ARG:CA	2.80	0.64
18:B3:28:G:C4'	18:B3:1317:A:C2	2.80	0.64
23:BD:186:LEU:HA	23:BD:198:TRP:O	1.97	0.64
23:BD:181:LEU:HB2	23:BD:203:GLY:H	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:255:THR:HG22	23:BD:256:LYS:N	2.12	0.64
34:BO:122:ILE:CD1	34:BO:126:GLN:HB3	2.05	0.64
18:B3:51:G:H4'	45:BY:20:ARG:CB	2.27	0.64
21:BB:79:GLU:O	47:B9:65:GLY:CA	2.46	0.64
18:B3:1191:G:H22	18:B3:1207:A:H1'	1.62	0.64
44:BX:31:LEU:O	44:BX:35:LYS:HB2	1.97	0.64
18:B3:1055:G:H21	28:BI:108:ALA:HB2	1.61	0.64
18:B3:2720:C:OP1	38:BS:33:ASN:OD1	2.15	0.64
28:BI:30:LYS:CG	28:BI:66:GLU:HG3	2.22	0.64
22:BC:260:MET:HB2	32:BM:66:THR:CG2	2.19	0.64
26:BG:212:LYS:CE	26:BG:213:LEU:HD23	2.28	0.64
18:B3:2734:G:P	35:BP:79:LYS:HZ3	2.12	0.64
1:AA:560:U:C6	1:AA:563:A:H5'	2.32	0.64
5:AD:118:LEU:O	5:AD:163:PRO:HG2	1.97	0.64
5:AD:175:ARG:CG	5:AD:191:ALA:HB2	2.27	0.64
8:AH:39:VAL:HG22	8:AH:43:HIS:ND1	2.11	0.64
1:AA:102:G:C1'	1:AA:151:A:HO2'	2.07	0.64
37:BR:61:THR:HG23	37:BR:71:LYS:O	1.97	0.64
18:B3:164:G:C5'	41:BV:31:ARG:CG	2.75	0.64
43:BW:53:GLU:H	43:BW:55:ASN:ND2	1.94	0.64
43:BW:8:THR:HG22	43:BW:73:ARG:HH22	1.63	0.64
46:BZ:15:THR:HB	46:BZ:78:THR:HG21	1.79	0.64
40:BU:38:GLU:HA	40:BU:40:ARG:NH2	2.13	0.64
41:BV:112:LEU:HG	41:BV:113:GLY:N	2.12	0.64
40:BU:14:LYS:HD2	40:BU:17:LYS:HD3	1.78	0.64
6:AE:114:ILE:O	6:AE:114:ILE:HG13	1.96	0.64
20:BA:94:ASN:HB3	20:BA:123:LEU:HD12	1.79	0.64
20:BA:215:ARG:H	20:BA:215:ARG:HH11	1.45	0.64
23:BD:9:SER:OG	23:BD:11:THR:HG22	1.98	0.64
1:AA:392:G:H2'	1:AA:393:A:C8	2.32	0.64
18:B3:1579:C:H2'	18:B3:1580:A:C8	2.33	0.64
18:B3:420:U:H2'	18:B3:421:C:C6	2.33	0.64
7:AG:145:THR:HG21	7:AG:219:VAL:HG12	1.78	0.64
1:AA:1224:G:N3	13:AM:137:HIS:CD2	2.65	0.64
13:AM:28:ILE:HD13	13:AM:61:LEU:HD11	1.79	0.64
7:AG:110:VAL:CG2	9:AI:43:LEU:CG	2.75	0.64
7:AG:111:ARG:HH21	9:AI:41:GLU:HB2	0.82	0.64
9:AI:89:VAL:CG2	9:AI:101:LYS:HG2	2.27	0.64
19:B4:118:C:H4'	24:BE:68:THR:CG2	2.23	0.64
24:BE:107:ARG:N	24:BE:110:LEU:HB2	2.11	0.64
24:BE:183:TRP:HB2	24:BE:187:THR:HG22	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:56:ALA:HB2	33:BN:73:LYS:HB2	1.78	0.64
18:B3:1349:G:OP1	23:BD:36:THR:HA	1.97	0.64
23:BD:160:LYS:C	23:BD:160:LYS:HE3	2.18	0.64
34:BO:62:VAL:HB	34:BO:87:VAL:HA	1.77	0.64
21:BB:237:ILE:HD12	21:BB:237:ILE:N	2.13	0.64
21:BB:60:VAL:HG12	21:BB:61:VAL:N	2.11	0.64
21:BB:79:GLU:O	47:B9:64:ALA:O	2.15	0.64
25:BF:167:ILE:HD13	25:BF:183:LEU:HD11	1.80	0.64
22:BC:173:LYS:H	22:BC:173:LYS:HE3	1.60	0.64
22:BC:32:PRO:HA	22:BC:342:TYR:HD1	1.63	0.64
18:B3:2135:A:H2	18:B3:2240:U:C4	2.14	0.64
31:BL:163:LEU:O	31:BL:164:THR:HB	1.98	0.64
18:B3:2890:A:C2	38:BS:51:TRP:CA	2.49	0.64
18:B3:2346:C:O4'	29:BJ:64:ILE:C	2.35	0.64
20:BA:9:VAL:HG21	20:BA:180:VAL:CG1	2.24	0.64
8:AH:37:LEU:HD12	8:AH:60:ILE:HG21	1.79	0.64
18:B3:1118:A:C4'	18:B3:1227:C:C4	2.81	0.64
1:AA:309:G:N3	1:AA:608:A:C2	2.66	0.64
41:BV:127:ARG:N	41:BV:146:LEU:HD12	2.12	0.64
41:BV:74:LEU:CD1	41:BV:137:ILE:HD11	2.27	0.64
1:AA:922:G:H2'	1:AA:923:A:C8	2.32	0.64
18:B3:49:A:N1	18:B3:113:A:O4'	2.30	0.64
1:AA:562:C:C6	12:AL:33:LEU:CD2	2.80	0.64
42:B0:111:ARG:HH21	42:B0:113:LYS:CD	2.10	0.64
18:B3:1778:A:H2'	18:B3:1779:A:H5'	1.79	0.64
2:AT:454:ILE:HG13	2:AT:455:GLY:H	1.62	0.64
1:AA:397:A:H5'	1:AA:398:C:OP1	1.98	0.64
4:AC:164:ASN:HD22	4:AC:192:ALA:HB3	1.63	0.64
33:BN:51:LEU:HD23	33:BN:51:LEU:O	1.97	0.64
13:AM:100:THR:HG23	13:AM:105:VAL:CG1	2.27	0.64
1:AA:1332:A:P	13:AM:40:ARG:CD	2.83	0.64
24:BE:154:THR:HG22	24:BE:155:THR:N	2.12	0.64
24:BE:48:LYS:HB2	24:BE:67:SER:HB2	1.79	0.64
33:BN:14:ALA:HB1	33:BN:100:ASN:ND2	2.12	0.64
18:B3:2051:G:O3'	33:BN:23:VAL:HG23	1.96	0.64
23:BD:7:VAL:HA	23:BD:150:VAL:HG21	1.80	0.64
31:BL:75:PRO:HG2	31:BL:86:GLN:HA	1.78	0.64
30:BK:98:VAL:HG11	30:BK:142:ARG:HH11	1.63	0.64
18:B3:1942:A:O2'	21:BB:222:SER:OG	2.16	0.64
18:B3:874:A:O4'	21:BB:196:PRO:HG2	1.98	0.64
21:BB:61:VAL:HG13	21:BB:62:PHE:H	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:167:ILE:HG22	25:BF:168:ILE:N	2.13	0.64
18:B3:57:C:C1'	44:BX:35:LYS:CE	2.72	0.64
22:BC:55:ILE:HG13	22:BC:357:TRP:O	1.97	0.64
18:B3:968:G:C5'	28:BI:35:ASP:OD2	2.45	0.64
28:BI:65:LEU:O	28:BI:66:GLU:HB3	1.98	0.64
18:B3:1002:G:C3'	28:BI:90:ARG:CZ	2.75	0.64
38:BS:19:THR:HG22	38:BS:20:LEU:N	2.12	0.64
26:BG:149:LEU:HD21	26:BG:210:LEU:HG	1.80	0.64
31:BL:26:VAL:HG21	31:BL:122:GLN:NE2	2.13	0.64
18:B3:1805:G:H21	18:B3:2875:A:H61	1.21	0.64
18:B3:2345:A:O2'	29:BJ:62:GLU:HG3	1.97	0.64
6:AE:138:ILE:HD12	6:AE:217:ILE:HD11	1.78	0.64
1:AA:35:G:H5'	12:AL:130:VAL:CG2	2.26	0.64
18:B3:1139:U:C4'	27:BH:62:ARG:CG	2.66	0.64
1:AA:678:U:H2'	11:AK:125:THR:HG21	1.79	0.64
35:BP:21:VAL:HG23	35:BP:22:TRP:CE3	2.31	0.64
18:B3:1501:A:OP2	35:BP:37:ARG:HD2	1.97	0.64
18:B3:1232:A:HO2'	18:B3:2525:G:P	2.19	0.64
18:B3:2381:C:H4'	46:BZ:8:LYS:NZ	2.13	0.64
11:AK:40:ARG:HD3	11:AK:65:ASP:OD2	1.97	0.64
43:BW:5:ASP:HA	43:BW:76:ARG:HH21	1.61	0.64
20:BA:120:VAL:CG1	20:BA:121:PRO:HD2	2.19	0.64
1:AA:987:G:O6	17:AS:77:ARG:NH1	2.31	0.64
1:AA:1176:A:N6	9:AI:108:PHE:O	2.30	0.64
1:AA:1291:G:C4'	7:AG:111:ARG:HH22	2.10	0.64
10:AJ:58:LEU:CD2	10:AJ:90:TYR:HD2	2.11	0.64
18:B3:1019:C:O4'	36:BQ:61:THR:HG22	1.98	0.64
24:BE:156:GLY:HA2	24:BE:181:PRO:HD3	1.74	0.64
18:B3:677:C:H1'	23:BD:230:ALA:C	2.18	0.64
18:B3:449:A:H3'	23:BD:46:ARG:CD	2.27	0.64
18:B3:1353:C:OP2	23:BD:49:TYR:OH	2.15	0.64
47:B9:23:ARG:CD	47:B9:27:LYS:HE3	2.25	0.64
21:BB:131:ASN:O	21:BB:168:ILE:HG12	1.98	0.64
25:BF:101:VAL:C	25:BF:102:LEU:HD12	2.17	0.64
1:AA:538:G:C5'	12:AL:141:GLU:CA	2.13	0.64
18:B3:107:U:C4'	44:BX:56:THR:HA	2.27	0.64
18:B3:2820:A:H5'	22:BC:101:LEU:HB2	1.73	0.64
18:B3:2827:A:OP2	22:BC:122:TYR:O	2.06	0.64
22:BC:185:GLY:N	22:BC:190:LYS:HE3	2.11	0.64
18:B3:2652:U:C1'	22:BC:257:ALA:HB3	2.11	0.64
22:BC:283:ARG:HG3	22:BC:322:MET:CE	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:42:LEU:HD12	22:BC:42:LEU:N	2.12	0.64
22:BC:52:MET:HG3	22:BC:53:THR:N	2.13	0.64
18:B3:264:G:N1	26:BG:137:HIS:CD2	2.66	0.64
18:B3:2109:U:C5	41:BV:42:ILE:CD1	2.79	0.64
29:BJ:19:ASN:OD1	29:BJ:66:VAL:HG22	1.98	0.64
10:AJ:70:THR:HG21	10:AJ:74:GLU:O	1.96	0.64
1:AA:400:C:C2'	1:AA:622:A:C4'	2.74	0.64
5:AD:127:VAL:O	5:AD:130:THR:HG22	1.98	0.64
2:AT:109:VAL:CG2	2:AT:138:GLN:HG3	2.27	0.64
18:B3:2579:G:C5'	18:B3:2680:A:C5'	2.75	0.64
27:BH:47:LYS:HA	27:BH:47:LYS:NZ	2.13	0.64
18:B3:1131:G:C5	18:B3:2523:U:C5'	2.75	0.64
18:B3:2552:C:C1'	18:B3:2553:A:C2'	2.75	0.64
40:BU:100:HIS:CE1	40:BU:103:LYS:HZ2	2.16	0.64
6:AE:205:THR:HA	6:AE:209:THR:OG1	1.98	0.64
1:AA:434:U:H2'	1:AA:435:C:H6	1.62	0.64
11:AK:75:ILE:HG23	11:AK:109:LEU:CD2	2.25	0.64
11:AK:27:VAL:CG1	11:AK:66:VAL:HG21	2.19	0.64
32:BM:91:THR:HA	32:BM:95:LYS:HD2	1.78	0.64
2:AT:103:ILE:HD11	2:AT:453:ILE:HD11	1.79	0.64
2:AT:497:ASN:HB3	2:AT:500:ASP:OD2	1.98	0.64
18:B3:2049:C:OP1	33:BN:81:ARG:CA	2.42	0.64
33:BN:39:GLU:O	33:BN:40:LEU:HG	1.98	0.64
33:BN:82:TRP:CB	33:BN:83:PRO:HA	2.27	0.64
18:B3:719:C:C1'	34:BO:73:GLN:CD	2.44	0.64
21:BB:177:PRO:HG3	47:B9:22:ARG:CZ	2.27	0.64
21:BB:81:VAL:HG22	47:B9:64:ALA:CB	2.28	0.64
25:BF:168:ILE:HD11	25:BF:183:LEU:HD21	1.79	0.64
1:AA:132:C:OP2	16:AQ:128:ARG:NH2	2.31	0.64
1:AA:190(E):U:C4'	16:AQ:130:ILE:HD13	2.26	0.64
44:BX:31:LEU:O	44:BX:31:LEU:HD23	1.98	0.64
18:B3:2826:G:C8	22:BC:124:SER:N	2.59	0.64
18:B3:2546:U:C3'	22:BC:235:LYS:CG	2.00	0.64
22:BC:57:ARG:NH1	22:BC:72:VAL:HG21	2.12	0.64
28:BI:70:ILE:CD1	28:BI:74:LYS:HD3	2.26	0.64
18:B3:263:U:H3	26:BG:157:ASP:CG	2.01	0.64
26:BG:115:VAL:HG11	26:BG:213:LEU:HD13	1.80	0.64
26:BG:152:ILE:HB	26:BG:176:TYR:CE2	2.31	0.64
18:B3:1566:C:H5''	35:BP:57:HIS:NE2	2.13	0.64
18:B3:1807:U:C5'	18:B3:2884:G:C4	2.80	0.64
18:B3:2890:A:C8	18:B3:2890:A:H5''	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2334:C:N1	29:BJ:114:LYS:N	2.41	0.64
29:BJ:162:PHE:HA	29:BJ:165:LYS:CD	2.27	0.64
18:B3:2347:C:C4'	29:BJ:66:VAL:HG12	2.27	0.64
3:AB:186:ALA:HB1	3:AB:188:VAL:HG13	1.80	0.64
1:AA:69:G:O2'	1:AA:171:A:C5	2.49	0.64
18:B3:1993:C:O4'	37:BR:72:LYS:N	2.31	0.64
1:AA:1419:G:O2'	18:B3:1991:A:H5'	1.98	0.64
27:BH:47:LYS:HA	27:BH:47:LYS:HE3	1.78	0.64
27:BH:48:VAL:HA	27:BH:53:ILE:CG2	2.23	0.64
35:BP:51:LYS:CE	35:BP:52:LYS:HE2	2.21	0.64
18:B3:2552:C:H5'	18:B3:2553:A:C2	2.28	0.64
1:AA:122:G:N1	1:AA:288:A:N1	2.46	0.64
20:BA:179:LEU:CD1	20:BA:183:ILE:HD11	2.28	0.64
18:B3:1717:A:H5''	35:BP:54:VAL:HG23	1.78	0.64
7:AG:84:ALA:HB3	7:AG:89:ILE:CG1	2.28	0.64
1:AA:105:G:H21	1:AA:379:C:H1'	1.61	0.64
30:BK:90:ARG:CB	30:BK:139:VAL:HG23	2.28	0.64
18:B3:2894:C:O2'	18:B3:2895:C:H5'	1.97	0.64
13:AM:42:TYR:OH	13:AM:97:ASP:HB3	1.97	0.64
17:AS:56:PHE:HB3	17:AS:58:LYS:CE	2.27	0.64
9:AI:97:ASP:O	9:AI:105:LYS:HB2	1.98	0.64
9:AI:33:SER:HB3	9:AI:37:LEU:HB3	1.80	0.64
19:B4:68:G:C1'	24:BE:12:TYR:C	2.60	0.64
19:B4:6:C:H5'	24:BE:50:ARG:NH1	2.13	0.64
36:BQ:64:VAL:HA	36:BQ:74:VAL:HA	1.78	0.64
33:BN:25:PHE:HA	33:BN:28:THR:HG21	1.80	0.64
42:B0:76:VAL:HG22	42:B0:81:ASP:OD2	1.98	0.64
18:B3:29:C:C3'	18:B3:1342:C:OP1	2.45	0.64
18:B3:26:U:O2'	18:B3:1319:G:H3'	1.93	0.64
34:BO:62:VAL:HG22	34:BO:63:SER:N	2.12	0.64
18:B3:721:A:C5'	34:BO:71:LEU:CB	2.64	0.64
18:B3:764:C:H1'	23:BD:86:GLN:CG	2.20	0.64
18:B3:775:G:OP1	45:BY:27:HIS:HE1	1.76	0.64
23:BD:62:GLU:O	23:BD:76:VAL:HG23	1.97	0.64
47:B9:72:THR:HG22	47:B9:73:ALA:N	2.12	0.64
22:BC:101:LEU:HD13	22:BC:145:ARG:CZ	2.28	0.64
22:BC:12:HIS:NE2	22:BC:15:PHE:HE1	1.96	0.64
22:BC:302:LYS:HG3	22:BC:305:THR:OG1	1.98	0.64
22:BC:311:VAL:CG1	22:BC:312:HIS:H	2.07	0.64
22:BC:83:VAL:CG2	22:BC:163:THR:HG22	2.27	0.64
18:B3:2520:G:H5'	28:BI:159:PHE:C	2.18	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1787:C:OP1	35:BP:73:ARG:NH2	2.30	0.64
18:B3:1805:G:N2	18:B3:2882:G:C2'	2.61	0.64
18:B3:924:G:O6	41:BV:41:ARG:CD	2.46	0.64
29:BJ:76:GLU:O	29:BJ:77:GLU:HG3	1.98	0.64
20:BA:11:GLU:O	20:BA:15:GLU:HG3	1.98	0.64
20:BA:62:ASN:OD1	20:BA:152:ARG:HD3	1.98	0.64
10:AJ:79:TRP:O	14:AN:39:ARG:CZ	2.45	0.64
1:AA:32:A:N1	12:AL:47:SER:CB	2.61	0.64
18:B3:1245:C:H41	32:BM:124:ARG:HD2	1.58	0.64
27:BH:20:ILE:HD12	27:BH:25:VAL:CA	2.27	0.64
27:BH:18:VAL:HG13	27:BH:26:LYS:NZ	2.12	0.64
35:BP:13:VAL:HG22	35:BP:41:ARG:HG3	1.80	0.64
43:BW:7:VAL:H	43:BW:74:ILE:CG2	2.09	0.64
1:AA:634:C:C5'	16:AQ:92:TYR:O	2.39	0.64
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.78	0.64
18:B3:77:G:H21	40:BU:25:SER:HB2	1.63	0.64
40:BU:53:ASP:O	40:BU:110:HIS:HB2	1.97	0.64
1:AA:357:G:OP1	1:AA:366:C:P	2.54	0.64
18:B3:697:G:H2'	41:BV:112:LEU:HD13	1.79	0.64
18:B3:698:A:P	41:BV:132:LEU:CD1	2.72	0.64
41:BV:68:TRP:CD1	41:BV:107:GLY:HA3	2.33	0.64
41:BV:72:LEU:HD21	41:BV:77:LEU:HD11	1.80	0.64
41:BV:81:ILE:HD11	41:BV:86:ARG:NE	2.13	0.64
41:BV:81:ILE:HG13	41:BV:95:LYS:HD3	1.78	0.64
7:AG:132:VAL:HG12	7:AG:197:LEU:CD1	2.16	0.64
30:BK:94:LYS:HB3	30:BK:138:SER:O	1.97	0.64
18:B3:1211:G:O2'	18:B3:1212:C:H5'	1.98	0.64
18:B3:2908:A:H2'	18:B3:2909:G:O4'	1.98	0.64
1:AA:818:G:H3'	1:AA:819:A:C5'	2.28	0.64
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.11	0.64
1:AA:1296:C:O2'	13:AM:54:LEU:HD13	1.97	0.64
33:BN:134:ARG:HD3	33:BN:135:ILE:N	2.09	0.64
24:BE:208:MET:CE	24:BE:210:GLU:HA	2.28	0.64
36:BQ:43:LYS:HA	36:BQ:58:GLN:CG	2.28	0.64
1:AA:335:C:O5'	1:AA:1434:A:H4'	1.98	0.64
18:B3:2087:C:H5'	33:BN:78:THR:CG2	2.22	0.64
23:BD:177:LEU:HB2	23:BD:222:PRO:HG2	1.80	0.64
23:BD:30:ARG:HA	23:BD:30:ARG:NE	2.12	0.64
18:B3:2101:A:N7	23:BD:71:ALA:CA	2.54	0.64
23:BD:61:ALA:HB3	23:BD:83:ARG:HH12	1.63	0.64
18:B3:1164:U:H5	30:BK:49:ALA:CA	2.10	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:112:ILE:HG22	30:BK:132:ILE:CD1	2.27	0.64
47:B9:41:CYS:HB2	47:B9:43:LYS:CD	2.22	0.64
21:BB:47:ILE:CD1	47:B9:53:ILE:CD1	2.71	0.64
21:BB:3:VAL:CG1	21:BB:7:GLN:HG3	2.25	0.64
22:BC:214:ILE:HG21	22:BC:339:LYS:H	1.62	0.64
22:BC:231:ARG:CA	22:BC:269:ARG:HH12	2.09	0.64
22:BC:52:MET:SD	22:BC:77:VAL:HG22	2.38	0.64
28:BI:38:LYS:HD3	28:BI:40:LYS:HE3	1.80	0.64
18:B3:2890:A:C2	38:BS:49:ILE:O	2.51	0.64
18:B3:921:G:N3	41:BV:40:HIS:HB3	2.12	0.64
29:BJ:19:ASN:OD1	29:BJ:66:VAL:HG13	1.97	0.64
18:B3:2346:C:C4'	29:BJ:46:GLN:C	2.66	0.64
29:BJ:53:VAL:HB	29:BJ:56:PHE:CB	2.22	0.64
20:BA:49:PHE:HD2	20:BA:193:LEU:HD22	1.63	0.64
12:AL:56:LYS:HD2	12:AL:94:ASN:OD1	1.98	0.64
2:AT:111:PHE:C	2:AT:533:THR:HG21	2.18	0.64
37:BR:28:ASN:CG	37:BR:102:ILE:HG13	2.18	0.64
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.15	0.64
27:BH:87:LYS:HB3	27:BH:147:SER:HB3	1.79	0.64
18:B3:1231:A:N6	18:B3:2497:A:C2	2.66	0.64
18:B3:81:G:O2'	40:BU:75:ARG:HG3	1.97	0.64
40:BU:55:GLU:HB3	40:BU:108:LYS:CB	2.28	0.64
1:AA:22:G:N2	1:AA:913:A:C6	2.65	0.64
1:AA:121:C:H6	1:AA:235:C:C5	2.10	0.64
20:BA:8:GLN:HE21	20:BA:216:LEU:CD1	2.10	0.64
1:AA:988:G:N1	1:AA:1015:A:C4	2.60	0.63
45:BY:10:ARG:NE	45:BY:12:ASN:HD21	1.95	0.63
10:AJ:26:LEU:HD22	10:AJ:38:SER:HB3	1.79	0.63
19:B4:30:C:O2	24:BE:57:ASN:OD1	2.12	0.63
24:BE:187:THR:HG1	24:BE:200:PHE:HD2	1.45	0.63
19:B4:30:C:C2	24:BE:57:ASN:HB2	2.33	0.63
19:B4:49:G:H5''	24:BE:99:TYR:HE2	1.63	0.63
33:BN:118:VAL:HG22	33:BN:119:ASN:H	1.63	0.63
33:BN:21:LEU:O	33:BN:142:PRO:HA	1.99	0.63
18:B3:29:C:O3'	18:B3:1342:C:H5'	1.98	0.63
23:BD:7:VAL:HA	23:BD:150:VAL:HG23	1.80	0.63
41:BV:76:LYS:HZ3	41:BV:76:LYS:HA	1.63	0.63
18:B3:472:A:OP1	45:BY:34:SER:O	2.16	0.63
30:BK:104:ILE:HG13	30:BK:108:GLU:HB2	1.79	0.63
18:B3:1182:U:H3'	30:BK:143:VAL:OXT	1.98	0.63
25:BF:117:LYS:HE2	25:BF:118:VAL:CG1	2.28	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:86:G:C5	25:BF:220:LYS:CG	2.79	0.63
44:BX:33:VAL:O	44:BX:34:GLN:HG2	1.98	0.63
22:BC:84:VAL:CG1	22:BC:201:THR:HG23	2.19	0.63
22:BC:55:ILE:HB	22:BC:74:ALA:CB	2.12	0.63
28:BI:99:ILE:CD1	28:BI:121:LYS:HD2	2.28	0.63
28:BI:76:MET:CE	28:BI:151:GLY:HA3	2.28	0.63
18:B3:264:G:C6	26:BG:137:HIS:HD2	2.16	0.63
26:BG:117:GLU:HG3	26:BG:213:LEU:CD2	2.28	0.63
18:B3:264:G:N2	26:BG:133:TYR:CE2	2.66	0.63
31:BL:146:ARG:H	31:BL:146:ARG:HH11	1.45	0.63
18:B3:898:G:H5''	41:BV:25:ARG:HD2	1.78	0.63
5:AD:172:VAL:HG12	5:AD:176:ASN:OD1	1.98	0.63
1:AA:523:A:H61	12:AL:113:ALA:HB1	1.49	0.63
1:AA:554:C:H6	12:AL:45:GLY:HA2	1.58	0.63
2:AT:463:LEU:N	2:AT:513:LYS:HZ2	1.95	0.63
18:B3:2578:G:C4	18:B3:2801:A:H5'	2.33	0.63
27:BH:134:ILE:HD12	27:BH:146:LEU:HD12	1.80	0.63
18:B3:1232:A:C2'	18:B3:2524:G:O3'	2.40	0.63
40:BU:63:LYS:H	40:BU:63:LYS:HD2	1.62	0.63
5:AD:48:GLN:NE2	5:AD:48:GLN:H	1.97	0.63
1:AA:924:C:C4'	1:AA:1398:A:C5	2.81	0.63
15:AO:82:GLU:HA	15:AO:85:GLU:OE2	1.98	0.63
18:B3:362:G:H2'	18:B3:363:A:C8	2.33	0.63
1:AA:556:C:O2'	1:AA:557:G:H5'	1.97	0.63
1:AA:353:A:H5'	1:AA:353:A:C8	2.31	0.63
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.98	0.63
18:B3:349:U:O2'	18:B3:350:C:H5'	1.98	0.63
13:AM:15:LEU:CB	13:AM:66:LEU:HD11	2.27	0.63
17:AS:96:ILE:HG21	17:AS:120:SER:HB2	1.77	0.63
1:AA:1125:U:OP1	10:AJ:53:LYS:HE2	1.99	0.63
18:B3:2295:G:C5'	36:BQ:5:HIS:C	2.58	0.63
19:B4:48:C:H2'	24:BE:158:ARG:HG2	1.75	0.63
24:BE:43:LYS:HE2	24:BE:65:ILE:CD1	2.29	0.63
18:B3:1019:C:OP1	36:BQ:79:MET:HG2	1.97	0.63
1:AA:336:C:H6	1:AA:1433:A:H2'	1.64	0.63
33:BN:41:THR:OG1	33:BN:109:THR:HG23	1.98	0.63
18:B3:1351:G:H8	23:BD:108:TRP:HZ3	1.44	0.63
23:BD:125:ILE:HA	23:BD:128:THR:OG1	1.98	0.63
34:BO:127:LEU:O	34:BO:130:ARG:HG3	1.98	0.63
18:B3:1163:G:H5''	30:BK:54:LYS:CD	2.23	0.63
18:B3:1182:U:C3'	30:BK:143:VAL:OXT	2.47	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:19:GLY:CA	30:BK:50:THR:HG21	2.28	0.63
47:B9:32:GLN:NE2	47:B9:68:TYR:HB2	2.14	0.63
18:B3:1852:A:C4'	21:BB:236:LEU:HD23	2.25	0.63
18:B3:1285:U:C3'	25:BF:155:ILE:HG12	2.28	0.63
1:AA:190(D):U:O2'	16:AQ:109:HIS:C	2.36	0.63
18:B3:107:U:O2	44:BX:56:THR:CG2	2.45	0.63
44:BX:17:LEU:O	44:BX:17:LEU:HD13	1.98	0.63
44:BX:24:LEU:N	44:BX:24:LEU:HD22	2.12	0.63
28:BI:53:VAL:HG22	28:BI:164:LYS:O	1.98	0.63
18:B3:1002:G:C2'	28:BI:90:ARG:CZ	2.56	0.63
28:BI:7:ARG:H	28:BI:9:TYR:HD1	1.45	0.63
18:B3:1565:C:H5'	18:B3:2738:G:C8	2.31	0.63
18:B3:2335:C:C2	29:BJ:116:ASP:HB2	2.20	0.63
18:B3:2337:G:H1'	29:BJ:127:TYR:HA	0.68	0.63
18:B3:2347:C:O2	29:BJ:19:ASN:HB2	1.97	0.63
20:BA:151:VAL:O	20:BA:160:LYS:CG	2.46	0.63
39:BT:109:VAL:HG22	39:BT:110:ASN:O	1.98	0.63
1:AA:168:G:O2'	1:AA:169:C:H5'	1.97	0.63
2:AT:137:VAL:C	2:AT:481:MET:CG	2.66	0.63
18:B3:2559:C:H5'	18:B3:2799:A:H4'	1.80	0.63
27:BH:18:VAL:HG21	27:BH:52:LEU:HD12	1.80	0.63
32:BM:117:VAL:HG22	32:BM:118:VAL:N	2.12	0.63
1:AA:677:U:C5'	11:AK:127:LYS:NZ	2.37	0.63
19:B4:92:G:H2'	19:B4:93:A:C8	2.33	0.63
1:AA:1406:U:C2	1:AA:1518:A:H4'	2.22	0.63
41:BV:5:THR:HG23	41:BV:7:THR:H	1.62	0.63
1:AA:358:U:H4'	2:AT:390:ASP:OD1	1.97	0.63
18:B3:1687:C:H1'	45:BY:8:GLY:C	2.17	0.63
2:AT:737:GLU:CG	18:B3:1199:A:N1	2.60	0.63
1:AA:239:U:C3'	1:AA:240:C:C2	2.78	0.63
18:B3:148:A:O3'	45:BY:42:LYS:HA	1.98	0.63
11:AK:47:VAL:HB	11:AK:52:ASP:CB	2.28	0.63
1:AA:57:G:C1'	1:AA:368:U:C2	2.72	0.63
1:AA:970:C:H41	9:AI:142:ARG:NE	1.87	0.63
1:AA:970:C:H5	9:AI:142:ARG:HH21	0.73	0.63
4:AC:178:GLN:NE2	4:AC:178:GLN:H	1.96	0.63
1:AA:1065:U:C4	1:AA:1189:C:N4	2.67	0.63
2:AT:91:GLN:HE22	2:AT:343:PRO:HA	1.62	0.63
18:B3:2755:G:H5''	38:BS:38:SER:HB2	1.79	0.63
1:AA:1305:G:N1	13:AM:40:ARG:NH1	2.47	0.63
1:AA:1175:G:H2'	9:AI:108:PHE:CD1	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:30:C:C4	24:BE:57:ASN:CB	2.66	0.63
24:BE:33:ARG:CA	24:BE:36:LEU:HG	2.27	0.63
24:BE:64:ILE:HD11	24:BE:144:VAL:HG11	1.80	0.63
18:B3:1428:C:C5'	33:BN:124:GLN:NE2	2.61	0.63
42:B0:105:ARG:HH12	42:B0:108:ILE:CG2	2.11	0.63
18:B3:26:U:C2	18:B3:1319:G:H2'	2.33	0.63
18:B3:657:G:O2'	23:BD:119:TYR:CD2	2.46	0.63
23:BD:103:LYS:HD3	23:BD:105:TRP:O	1.98	0.63
23:BD:125:ILE:O	23:BD:125:ILE:HG13	1.97	0.63
23:BD:134:VAL:HG21	23:BD:147:ILE:CG1	2.28	0.63
18:B3:2274:A:H2'	31:BL:80:TYR:CD2	2.32	0.63
18:B3:1855:G:N1	21:BB:150:PRO:CG	2.61	0.63
18:B3:784:A:OP1	21:BB:21:LEU:HD21	1.98	0.63
21:BB:29:ARG:HG2	21:BB:29:ARG:O	1.96	0.63
18:B3:1098:A:P	25:BF:216:PRO:HA	2.37	0.63
18:B3:2547:C:H5'	22:BC:246:ARG:HH12	1.60	0.63
18:B3:2712:G:O2'	37:BR:44:SER:N	2.30	0.63
22:BC:232:TRP:HE1	22:BC:234:THR:HB	1.63	0.63
18:B3:2837:U:C4'	22:BC:332:LYS:HE3	2.27	0.63
28:BI:137:SER:O	28:BI:138:VAL:HG23	1.98	0.63
28:BI:51:HIS:CG	28:BI:152:LEU:HD22	2.32	0.63
28:BI:26:VAL:HG11	28:BI:125:LEU:HD21	1.79	0.63
28:BI:38:LYS:HG2	28:BI:40:LYS:CE	2.22	0.63
28:BI:72:ALA:HA	28:BI:154:ARG:NH1	2.13	0.63
26:BG:148:LYS:C	26:BG:149:LEU:HD13	2.17	0.63
31:BL:21:LEU:O	31:BL:25:ARG:HB3	1.99	0.63
18:B3:1566:C:H4'	35:BP:56:VAL:HG11	0.64	0.63
18:B3:166:A:N6	41:BV:28:PRO:CB	2.62	0.63
18:B3:2350:G:O6	29:BJ:117:PRO:HD3	1.98	0.63
39:BT:62:ILE:HD12	39:BT:63:GLU:H	1.62	0.63
10:AJ:72:ASN:O	14:AN:20:CYS:CB	2.43	0.63
3:AB:88:PHE:CD1	3:AB:174:TYR:HA	2.33	0.63
5:AD:72:GLU:OE2	5:AD:105:LEU:HD22	1.97	0.63
1:AA:33:A:H2	12:AL:47:SER:OG	1.77	0.63
37:BR:28:ASN:HD22	37:BR:102:ILE:HG21	1.61	0.63
18:B3:2596:A:H5''	37:BR:73:VAL:HG13	1.73	0.63
18:B3:2578:G:O2'	18:B3:2680:A:H4'	1.98	0.63
18:B3:2566:A:H4'	27:BH:174:LYS:NZ	2.14	0.63
27:BH:27:VAL:CG1	27:BH:82:VAL:HB	2.28	0.63
27:BH:47:LYS:H	27:BH:55:VAL:CG2	2.11	0.63
1:AA:921:U:P	1:AA:1081:G:H4'	2.37	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:56:VAL:HG12	40:BU:57:LEU:N	2.13	0.63
18:B3:905:C:C6	41:BV:11:ARG:CZ	2.81	0.63
1:AA:545:C:C5'	5:AD:66:ASP:HB2	2.11	0.63
1:AA:1483:A:O4'	18:B3:1989:G:H1'	1.99	0.63
1:AA:1504:G:C8	1:AA:1508:G:H5'	2.33	0.63
1:AA:118:U:O4'	1:AA:122:G:H1'	1.99	0.63
47:B9:36:TYR:N	47:B9:46:VAL:HG12	2.13	0.63
32:BM:84:ARG:CZ	32:BM:87:VAL:HG11	2.28	0.63
22:BC:143:ILE:O	22:BC:147:LEU:HD13	1.98	0.63
24:BE:61:ILE:HG13	24:BE:79:TYR:CD2	2.33	0.63
1:AA:723:U:H2'	1:AA:723:U:O2	1.98	0.63
35:BP:106:ALA:O	35:BP:110:ASP:HB2	1.99	0.63
18:B3:2366:C:OP1	36:BQ:23:GLY:N	2.32	0.63
3:AB:99:GLY:C	3:AB:100:ARG:HD2	2.18	0.63
13:AM:132:ARG:HB3	13:AM:136:GLN:HE21	1.62	0.63
7:AG:110:VAL:HG21	9:AI:43:LEU:CG	2.28	0.63
19:B4:117:G:N2	24:BE:69:ILE:O	2.30	0.63
24:BE:183:TRP:HA	24:BE:186:GLU:O	1.98	0.63
19:B4:5:G:H3'	24:BE:27:LYS:HZ2	1.61	0.63
18:B3:1370:G:N7	33:BN:27:ASN:CB	2.59	0.63
18:B3:750:A:O4'	23:BD:116:GLU:CG	2.47	0.63
23:BD:202:ARG:HD3	23:BD:202:ARG:N	2.13	0.63
18:B3:722:G:C1'	34:BO:141:ARG:HH21	2.11	0.63
21:BB:157:ILE:HD13	21:BB:158:SER:OG	1.98	0.63
18:B3:1830:C:N4	21:BB:180:LYS:CE	2.06	0.63
18:B3:1846:U:O3'	21:BB:180:LYS:HB2	1.77	0.63
18:B3:108:U:C5	44:BX:60:GLU:C	2.71	0.63
18:B3:1742:A:H4'	18:B3:2723:G:OP1	1.99	0.63
22:BC:210:GLN:CG	22:BC:284:VAL:HG23	2.28	0.63
22:BC:232:TRP:CZ2	22:BC:264:ALA:HB1	2.33	0.63
18:B3:1736:A:OP1	22:BC:243:ARG:CG	2.47	0.63
22:BC:42:LEU:HD23	22:BC:45:PHE:CD2	2.34	0.63
28:BI:31:ILE:HD13	28:BI:65:LEU:C	2.19	0.63
37:BR:12:ARG:O	37:BR:86:ARG:HB3	1.98	0.63
18:B3:1814:G:C2'	18:B3:2733:U:C4	2.76	0.63
18:B3:1805:G:N2	18:B3:2883:A:C5	2.66	0.63
35:BP:59:LYS:HB2	35:BP:59:LYS:HZ2	1.63	0.63
35:BP:84:ARG:HA	35:BP:87:ARG:HH21	1.64	0.63
18:B3:921:G:N2	41:BV:40:HIS:HB3	2.14	0.63
29:BJ:16:LEU:H	29:BJ:70:VAL:CG1	2.09	0.63
5:AD:99:LEU:CD1	5:AD:101:VAL:HA	2.29	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:50:GLU:HG2	8:AH:61:VAL:HB	1.81	0.63
1:AA:31:G:C2	1:AA:47:C:OP1	2.52	0.63
37:BR:32:ARG:HG3	37:BR:64:LYS:O	1.98	0.63
27:BH:18:VAL:HG21	27:BH:52:LEU:CD1	2.28	0.63
1:AA:677:U:O4	11:AK:121:PRO:HB2	1.97	0.63
35:BP:10:ALA:HA	35:BP:41:ARG:HH21	1.60	0.63
43:BW:11:TYR:CD2	43:BW:35:ILE:HG22	2.33	0.63
43:BW:27:ARG:HH11	43:BW:66:VAL:HG23	1.63	0.63
18:B3:2408:A:C1'	46:BZ:19:HIS:CE1	2.49	0.63
46:BZ:60:LYS:C	46:BZ:60:LYS:HD3	2.19	0.63
1:AA:292:G:C2'	1:AA:609:A:N6	2.59	0.63
1:AA:928:G:H5'	1:AA:1533:C:N4	2.10	0.63
40:BU:14:LYS:CA	40:BU:17:LYS:HG2	2.27	0.63
18:B3:74:A:OP1	44:BX:5:LYS:HD3	1.98	0.63
18:B3:813:C:O2'	35:BP:129:ASN:OD1	2.09	0.63
18:B3:2018:A:C4	47:B9:17:TYR:OH	2.30	0.63
18:B3:1885:A:HO2'	47:B9:19:SER:CB	2.09	0.63
11:AK:63:ALA:HB3	11:AK:103:ALA:HB3	1.80	0.63
2:AT:284:LEU:HD13	2:AT:324:MET:CE	2.28	0.63
43:BW:43:MET:CE	43:BW:43:MET:HA	2.28	0.63
13:AM:100:THR:HG23	13:AM:105:VAL:HG13	1.80	0.63
13:AM:38:VAL:HB	13:AM:84:TRP:HZ3	1.62	0.63
13:AM:17:LEU:HD23	13:AM:73:MET:SD	2.39	0.63
1:AA:1317:C:H5	17:AS:56:PHE:CZ	1.89	0.63
9:AI:27:LEU:HD23	9:AI:27:LEU:H	1.63	0.63
36:BQ:25:VAL:CG2	36:BQ:30:TYR:HE2	2.11	0.63
36:BQ:42:ILE:HG23	36:BQ:59:GLY:H	1.63	0.63
36:BQ:74:VAL:HB	36:BQ:91:LEU:CD2	2.29	0.63
18:B3:2841:A:N3	33:BN:68:ARG:CD	2.53	0.63
18:B3:524:A:C5'	33:BN:29:ARG:NH2	2.61	0.63
33:BN:35:ILE:CD1	33:BN:35:ILE:H	2.11	0.63
33:BN:66:ILE:HB	33:BN:79:LYS:CD	2.28	0.63
42:B0:112:ALA:HB1	42:B0:117:ILE:HD11	1.80	0.63
23:BD:112:VAL:HG22	23:BD:113:ASN:O	1.98	0.63
18:B3:1874:U:OP1	21:BB:127:ARG:CG	2.29	0.63
18:B3:795:G:H1'	18:B3:818:A:N6	2.14	0.63
1:AA:130:A:O4'	1:AA:190(E):U:H5	1.77	0.63
18:B3:2762:C:C2'	37:BR:83:LYS:HD2	2.29	0.63
18:B3:2837:U:C5	22:BC:333:ARG:HD3	2.26	0.63
22:BC:88:VAL:H	22:BC:198:PHE:HE1	1.44	0.63
22:BC:302:LYS:HE3	22:BC:305:THR:H	1.64	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:332:LYS:O	22:BC:333:ARG:HG3	1.98	0.63
37:BR:92:PHE:HD1	38:BS:20:LEU:HG	1.63	0.63
37:BR:92:PHE:CD1	38:BS:20:LEU:HD11	2.33	0.63
18:B3:433:C:C4'	31:BL:149:TRP:CZ3	2.75	0.63
26:BG:126:PRO:HG3	26:BG:131:VAL:CG1	2.23	0.63
18:B3:2333:G:H2'	29:BJ:114:LYS:CG	2.29	0.63
29:BJ:36:LEU:HD22	29:BJ:67:HIS:CE1	2.33	0.63
1:AA:620:C:O5'	5:AD:129:ILE:HD12	1.98	0.63
5:AD:101:VAL:CA	5:AD:191:ALA:H	2.11	0.63
37:BR:64:LYS:HE3	37:BR:65:GLY:N	2.12	0.63
37:BR:72:LYS:O	37:BR:73:VAL:HG22	1.98	0.63
18:B3:2796:U:H1'	27:BH:160:ASP:CB	2.28	0.63
32:BM:72:PHE:CG	32:BM:77:ARG:HB3	2.34	0.63
35:BP:16:VAL:HB	35:BP:20:LYS:HD2	1.80	0.63
35:BP:8:ARG:CZ	35:BP:18:LYS:HD3	2.27	0.63
46:BZ:66:LYS:HA	46:BZ:86:ARG:NH1	2.12	0.63
18:B3:81:G:H2'	40:BU:75:ARG:HD2	1.81	0.63
11:AK:26:PHE:CB	11:AK:41:VAL:HG12	2.28	0.63
4:AC:100:GLN:HB3	4:AC:185:VAL:HG11	1.79	0.63
32:BM:92:ALA:H	32:BM:95:LYS:NZ	1.96	0.63
32:BM:5:VAL:HG11	32:BM:31:LYS:H	1.62	0.63
29:BJ:11:LEU:HD21	29:BJ:153:THR:HG23	1.81	0.63
44:BX:36:LEU:HD12	44:BX:36:LEU:N	2.14	0.63
2:AT:365:ASN:O	2:AT:369:ILE:HG12	1.99	0.63
1:AA:1003:G:H2'	1:AA:1003(A):G:C8	2.33	0.63
1:AA:988:G:C1'	1:AA:1015:A:N7	2.60	0.63
1:AA:1225:A:N3	17:AS:124:THR:HB	2.14	0.63
13:AM:117:LYS:CB	13:AM:128:PHE:HE1	2.09	0.63
13:AM:125:ILE:HG12	13:AM:129:TRP:NE1	2.13	0.63
17:AS:96:ILE:O	17:AS:102:PHE:HA	1.98	0.63
42:B0:17:PHE:HD2	42:B0:32:TRP:HB2	1.63	0.63
18:B3:618:G:C4'	42:B0:46:PHE:N	2.32	0.63
9:AI:29:LYS:O	9:AI:29:LYS:HD2	1.99	0.63
24:BE:116:ASP:HB3	24:BE:142:PHE:HA	1.80	0.63
18:B3:1018:A:HO2'	36:BQ:60:LYS:HB3	1.62	0.63
18:B3:1019:C:O4'	36:BQ:61:THR:CG2	2.46	0.63
18:B3:2050:G:C2'	33:BN:84:ALA:CB	2.31	0.63
33:BN:59:PHE:HD1	33:BN:63:ASN:ND2	1.96	0.63
18:B3:2050:G:C1'	33:BN:84:ALA:HB3	2.26	0.63
18:B3:493:U:C4'	33:BN:99:ALA:CB	2.55	0.63
18:B3:517:U:O2'	18:B3:1319:G:N2	2.30	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:646:G:H2'	18:B3:647:U:C6	2.34	0.63
47:B9:22:ARG:HD2	47:B9:24:GLN:CG	2.29	0.63
21:BB:82:HIS:HD2	47:B9:62:THR:O	1.64	0.63
18:B3:783:C:H5''	21:BB:18:HIS:CE1	2.33	0.63
25:BF:94:ILE:HD12	25:BF:94:ILE:O	1.98	0.63
18:B3:1132:A:H2'	18:B3:2521:A:H4'	1.11	0.63
22:BC:176:HIS:C	22:BC:177:LEU:HD22	2.17	0.63
28:BI:108:ALA:O	28:BI:111:LEU:HB2	1.97	0.63
26:BG:152:ILE:CD1	26:BG:162:VAL:HG21	2.28	0.63
26:BG:151:LEU:HD21	26:BG:185:LEU:HD13	1.80	0.63
31:BL:112:LEU:HD13	31:BL:112:LEU:N	2.13	0.63
18:B3:1807:U:H1'	18:B3:2884:G:O5'	1.99	0.63
29:BJ:165:LYS:HG2	29:BJ:166:TYR:HD2	1.62	0.63
4:AC:40:VAL:HG22	4:AC:41:THR:O	1.99	0.63
4:AC:19:GLU:OE2	4:AC:75:ARG:HB3	1.99	0.63
5:AD:179:ARG:HD2	5:AD:182:GLU:HG2	1.80	0.63
5:AD:87:SER:N	5:AD:93:LEU:HD13	2.14	0.63
8:AH:45:TYR:OH	8:AH:129:TYR:HA	1.99	0.63
3:AB:141:PRO:CD	8:AH:68:LEU:HD11	2.27	0.63
1:AA:24:U:H3'	12:AL:39:LYS:CE	2.24	0.63
12:AL:136:TRP:HD1	12:AL:139:LYS:HB2	1.63	0.63
1:AA:66:G:H5''	1:AA:173:U:C4	2.33	0.63
18:B3:2596:A:O2'	37:BR:74:MET:HE3	1.96	0.63
1:AA:1372:U:OP2	9:AI:13:LYS:NZ	2.31	0.63
18:B3:1138:G:H21	27:BH:62:ARG:HH22	1.46	0.63
18:B3:2796:U:H5'	27:BH:156:GLN:NE2	2.12	0.63
18:B3:2797:C:OP1	27:BH:127:PRO:HG2	1.71	0.63
27:BH:76:ASP:CA	27:BH:79:ILE:HD12	2.17	0.63
35:BP:18:LYS:O	35:BP:21:VAL:HG12	1.98	0.63
35:BP:21:VAL:HA	35:BP:51:LYS:CB	2.28	0.63
46:BZ:72:GLU:HA	46:BZ:79:ARG:CB	2.28	0.63
1:AA:124:G:H5''	1:AA:290:C:O2	1.97	0.63
44:BX:4:VAL:HG23	44:BX:5:LYS:N	2.14	0.63
1:AA:112:G:N2	1:AA:354:G:H5'	2.14	0.63
18:B3:521:A:OP1	42:B0:26:HIS:CE1	2.51	0.63
43:BW:82:GLU:HG3	43:BW:82:GLU:O	1.98	0.63
8:AH:124:ILE:O	8:AH:124:ILE:HG13	1.98	0.63
1:AA:1106:G:O2'	4:AC:157:ILE:HD11	1.85	0.63
11:AK:84:ALA:H	11:AK:118:THR:CG2	2.06	0.63
1:AA:989:C:H5'	1:AA:1013:G:N9	2.13	0.63
1:AA:1308:U:H2'	13:AM:92:ILE:HA	1.81	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1150:U:O3'	10:AJ:59:PRO:O	2.09	0.63
10:AJ:97:VAL:HG22	10:AJ:98:GLN:H	1.63	0.63
18:B3:2424:U:C2'	36:BQ:6:GLY:HA3	2.28	0.63
36:BQ:64:VAL:CB	36:BQ:74:VAL:HG22	2.29	0.63
36:BQ:76:ILE:HG12	36:BQ:78:LYS:O	1.99	0.63
33:BN:147:LEU:HG	33:BN:148:VAL:N	2.14	0.63
33:BN:81:ARG:NH1	33:BN:81:ARG:H	1.94	0.63
23:BD:121:THR:O	23:BD:125:ILE:HG12	1.99	0.63
34:BO:62:VAL:HB	34:BO:86:THR:O	1.99	0.63
41:BV:62:LYS:C	41:BV:62:LYS:HD2	2.18	0.63
25:BF:105:LEU:N	25:BF:105:LEU:HD22	2.13	0.63
25:BF:167:ILE:HD13	25:BF:183:LEU:HD12	1.80	0.63
25:BF:83:VAL:HG22	25:BF:84:PHE:N	2.14	0.63
18:B3:487:G:O5'	40:BU:90:VAL:N	2.31	0.63
44:BX:48:ARG:HD2	44:BX:49:LYS:H	1.63	0.63
18:B3:2037:C:C5'	37:BR:47:ASN:O	2.47	0.63
22:BC:341:LEU:CD2	22:BC:341:LEU:H	2.11	0.63
18:B3:2806:C:OP1	22:BC:342:TYR:CE2	2.52	0.63
22:BC:88:VAL:HG22	22:BC:157:VAL:HG22	1.79	0.63
28:BI:36:LEU:HD22	28:BI:73:ASN:ND2	2.14	0.63
18:B3:2037:C:H5	37:BR:49:LEU:HG	1.64	0.63
18:B3:2737:C:C6	35:BP:61:ARG:CA	2.80	0.63
35:BP:94:TRP:CZ2	35:BP:95:ILE:HG23	2.34	0.63
20:BA:51:GLY:O	20:BA:54:LYS:C	2.37	0.63
4:AC:39:ARG:NH2	10:AJ:110:PRO:HA	2.14	0.63
3:AB:74:ALA:HA	3:AB:121:ILE:CG2	2.28	0.63
5:AD:101:VAL:C	5:AD:190:GLU:HA	2.18	0.63
5:AD:175:ARG:HD2	5:AD:195:ASP:OD2	1.98	0.63
12:AL:124:VAL:HB	12:AL:133:LEU:CD1	2.28	0.63
37:BR:28:ASN:HA	37:BR:102:ILE:CD1	2.29	0.63
18:B3:2579:G:H5"	18:B3:2680:A:C8	2.32	0.63
18:B3:1227:C:P	32:BM:48:ARG:NH2	2.71	0.63
43:BW:26:LYS:O	43:BW:27:ARG:HG2	1.99	0.63
46:BZ:62:LYS:NZ	46:BZ:62:LYS:HB2	2.13	0.63
46:BZ:66:LYS:HZ3	46:BZ:86:ARG:CD	2.12	0.63
1:AA:21:G:C5'	1:AA:884:U:C1'	2.71	0.63
12:AL:63:GLN:HB3	12:AL:64:PRO:HD2	1.79	0.63
18:B3:196:G:OP2	31:BL:179:PHE:HE1	1.82	0.63
3:AB:28:VAL:HG22	3:AB:29:GLN:N	2.14	0.63
18:B3:1882:C:OP1	21:BB:199:ARG:O	2.16	0.63
18:B3:499:G:H4'	33:BN:19:SER:HG	1.63	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2222:C:H5'	20:BA:215:ARG:NH2	2.06	0.63
18:B3:1438:G:N2	18:B3:1684:A:O2'	2.31	0.63
1:AA:765:G:H1	1:AA:812:C:H2'	1.62	0.63
18:B3:882:A:H5'	45:BY:2:LYS:N	2.14	0.63
1:AA:1178:G:O5'	9:AI:106:LYS:HB2	1.77	0.63
1:AA:1178:G:N1	9:AI:111:TYR:HE1	1.97	0.63
24:BE:136:GLU:OE2	24:BE:137:ASP:HB3	1.99	0.63
24:BE:20:PHE:HB3	24:BE:24:ARG:N	2.13	0.63
36:BQ:88:ARG:O	36:BQ:88:ARG:HG2	1.99	0.63
33:BN:101:ALA:CB	33:BN:106:LEU:HD21	2.29	0.63
42:B0:107:VAL:HG23	42:B0:108:ILE:N	2.13	0.63
18:B3:25:A:C4	18:B3:1320:U:H4'	2.33	0.63
18:B3:1348:A:H5''	23:BD:35:HIS:CB	2.17	0.63
23:BD:140:ARG:NH2	23:BD:178:LEU:HD13	2.13	0.63
23:BD:5:VAL:CG1	23:BD:19:LEU:HA	2.26	0.63
23:BD:208:TYR:HA	23:BD:248:ILE:HG22	1.80	0.63
23:BD:37:VAL:HG11	23:BD:112:VAL:HG21	1.80	0.63
31:BL:82:LYS:CE	46:BZ:49:PHE:CA	2.40	0.63
18:B3:1180:C:C2	30:BK:110:ILE:HD12	2.33	0.63
21:BB:224:ILE:HG23	21:BB:225:SER:O	1.99	0.63
21:BB:83:THR:OG1	47:B9:62:THR:CG2	2.47	0.63
25:BF:122:THR:HG22	25:BF:123:LEU:N	2.14	0.63
19:B4:85:A:O3'	25:BF:218:LYS:CD	2.44	0.63
18:B3:1133:A:N1	18:B3:2501:G:C4	2.67	0.63
18:B3:2289:G:H21	18:B3:2291:A:H2	1.47	0.63
28:BI:104:SER:H	28:BI:112:GLN:HB2	1.64	0.63
18:B3:2762:C:H5'	37:BR:18:PRO:HD3	1.81	0.63
18:B3:1789:G:C5'	18:B3:2880:A:N7	2.62	0.63
35:BP:101:LEU:CD1	35:BP:134:LYS:HA	2.29	0.63
29:BJ:83:LEU:HD11	29:BJ:90:LEU:CD1	2.28	0.63
18:B3:2214:A:H2'	20:BA:106:LYS:HG2	1.72	0.63
20:BA:154:THR:O	20:BA:159:LEU:C	2.34	0.63
39:BT:104:VAL:HG11	39:BT:125:LEU:CD2	2.28	0.63
39:BT:106:VAL:HG12	39:BT:125:LEU:HD23	1.81	0.63
10:AJ:71:PRO:HG2	14:AN:36:ASN:CG	2.03	0.63
6:AE:156:LYS:CG	8:AH:95:ALA:HB1	2.29	0.63
6:AE:212:ALA:O	6:AE:215:VAL:HG22	1.99	0.63
1:AA:11:G:H2'	1:AA:525:C:O2'	1.99	0.63
12:AL:59:ILE:CD1	12:AL:117:ILE:HB	2.28	0.63
27:BH:18:VAL:HG13	27:BH:26:LYS:CE	2.29	0.63
43:BW:11:TYR:CE2	43:BW:35:ILE:HB	2.34	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1232:A:O2'	18:B3:2525:G:P	2.57	0.63
1:AA:877:C:O2'	8:AH:3:SER:HB3	1.99	0.63
41:BV:69:LYS:HB2	41:BV:70:PRO:HA	1.80	0.63
18:B3:1235:G:C8	32:BM:63:PHE:CE2	2.86	0.63
1:AA:924:C:C1'	1:AA:1398:A:C2	2.81	0.63
18:B3:897:A:OP1	41:BV:26:LYS:CG	2.46	0.63
46:BZ:40:ARG:HG3	46:BZ:41:ARG:N	2.13	0.63
4:AC:98:VAL:O	4:AC:102:GLU:HG3	1.97	0.63
18:B3:1525:G:H5'	18:B3:1526:A:OP2	1.99	0.63
6:AE:106:SER:O	6:AE:142:TYR:HA	1.97	0.63
1:AA:28:G:O2'	1:AA:296:U:P	2.57	0.63
1:AA:1219:U:O3'	17:AS:59:LYS:HB2	1.98	0.63
13:AM:92:ILE:CG1	13:AM:123:ARG:HH22	1.99	0.63
17:AS:76:VAL:HG12	17:AS:77:ARG:N	2.13	0.63
42:B0:33:ARG:HB3	42:B0:33:ARG:CZ	2.26	0.63
9:AI:29:LYS:C	9:AI:29:LYS:HD2	2.18	0.63
9:AI:62:ILE:HG22	9:AI:63:ASP:N	2.14	0.63
19:B4:25:G:O2'	19:B4:26:C:H5'	1.98	0.63
36:BQ:32:LYS:O	36:BQ:93:VAL:HG11	1.99	0.63
33:BN:59:PHE:HB2	33:BN:62:PHE:CB	2.29	0.63
33:BN:85:LYS:HE3	33:BN:85:LYS:CA	2.28	0.63
23:BD:177:LEU:HD22	23:BD:178:LEU:N	2.13	0.63
23:BD:84:SER:HA	23:BD:97:ARG:HD3	1.78	0.63
18:B3:1652:C:O5'	21:BB:174:VAL:HG11	1.98	0.63
18:B3:1852:A:O2'	21:BB:237:ILE:HD12	1.99	0.63
25:BF:102:LEU:HD11	25:BF:129:ILE:HG21	1.79	0.63
1:AA:255:G:H4'	16:AQ:80:HIS:CB	2.29	0.63
39:BT:59:TYR:OH	44:BX:55:LEU:HD13	1.96	0.63
44:BX:48:ARG:HD2	44:BX:49:LYS:N	2.14	0.63
18:B3:106:A:C5'	44:BX:60:GLU:CD	2.67	0.63
18:B3:2531:U:H3'	18:B3:2532:A:O4'	1.99	0.63
18:B3:2652:U:H1'	22:BC:257:ALA:CB	2.24	0.63
18:B3:2846:C:H5''	22:BC:174:LYS:HE3	1.78	0.63
22:BC:184:GLY:CA	22:BC:190:LYS:HG3	2.29	0.63
22:BC:228:VAL:HG21	22:BC:246:ARG:HD3	1.80	0.63
22:BC:240:LYS:H	22:BC:242:HIS:H	1.46	0.63
22:BC:55:ILE:HD11	22:BC:355:LEU:HB2	1.79	0.63
28:BI:102:MET:O	28:BI:103:LEU:HD22	1.99	0.63
28:BI:58:GLU:HB2	28:BI:128:ARG:CB	2.28	0.63
28:BI:146:ASP:CG	28:BI:149:VAL:HB	2.19	0.63
37:BR:114:ILE:HG13	37:BR:114:ILE:O	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:95:PHE:HZ	38:BS:23:ARG:CG	2.00	0.63
26:BG:130:ALA:HB2	26:BG:202:VAL:HG23	1.80	0.63
31:BL:156:LYS:CE	31:BL:157:HIS:HD1	2.10	0.63
18:B3:1800:G:P	35:BP:69:LYS:HZ3	2.18	0.63
35:BP:80:ARG:HG2	35:BP:87:ARG:HD2	1.80	0.63
35:BP:92:VAL:HG23	35:BP:93:VAL:H	1.64	0.63
18:B3:2336:G:C1'	29:BJ:101:PHE:CE1	2.79	0.63
20:BA:34:LEU:CD1	20:BA:36:VAL:HG23	2.28	0.63
10:AJ:68:ARG:CB	14:AN:39:ARG:CB	2.44	0.63
3:AB:138:VAL:HG11	3:AB:140:ILE:CD1	2.27	0.63
5:AD:173:ALA:HB3	5:AD:176:ASN:OD1	1.99	0.63
5:AD:92:LYS:HB2	5:AD:95:TYR:HE2	1.61	0.63
37:BR:31:ALA:HA	37:BR:32:ARG:NH1	2.13	0.63
27:BH:134:ILE:HD12	27:BH:146:LEU:CD1	2.29	0.63
32:BM:118:VAL:HG22	32:BM:119:VAL:N	2.12	0.63
18:B3:1245:C:H42	32:BM:124:ARG:CD	2.12	0.63
41:BV:11:ARG:HG2	41:BV:12:GLY:N	2.14	0.63
5:AD:30:LEU:HD12	5:AD:67:PRO:CG	2.28	0.63
41:BV:82:PRO:HD3	41:BV:120:VAL:HG22	1.81	0.63
18:B3:73:C:P	44:BX:5:LYS:HA	2.36	0.63
18:B3:2019:A:H1'	47:B9:17:TYR:CE2	2.34	0.63
1:AA:112:G:H21	1:AA:354:G:H5'	1.63	0.63
15:AO:91:ILE:HD11	15:AO:92:LYS:HZ3	1.62	0.63
6:AE:75:LEU:HD12	6:AE:75:LEU:N	2.14	0.63
1:AA:501:C:H2'	1:AA:502:G:C8	2.32	0.63
1:AA:1225:A:N7	17:AS:100:LYS:HE2	2.11	0.62
17:AS:108:ARG:O	17:AS:111:MET:HB3	1.99	0.62
17:AS:85:ILE:CG2	17:AS:116:LEU:HD11	2.28	0.62
19:B4:13:A:O2'	19:B4:14:G:H5''	1.98	0.62
24:BE:43:LYS:HE2	24:BE:65:ILE:HD13	1.79	0.62
24:BE:80:SER:HB3	24:BE:92:LEU:HD22	1.81	0.62
19:B4:51:A:OP2	24:BE:92:LEU:HG	1.99	0.62
18:B3:745:G:N1	34:BO:90:ASP:O	2.31	0.62
18:B3:1306:U:H6	23:BD:194:ARG:NH2	1.89	0.62
18:B3:471:G:H4'	45:BY:15:HIS:HE1	1.51	0.62
31:BL:83:PRO:HB2	31:BL:86:GLN:CB	2.29	0.62
31:BL:82:LYS:NZ	46:BZ:49:PHE:HB3	1.98	0.62
18:B3:1180:C:O2	30:BK:106:LEU:C	2.37	0.62
47:B9:55:THR:HG21	47:B9:62:THR:C	2.18	0.62
47:B9:70:VAL:HG13	47:B9:71:SER:N	2.13	0.62
21:BB:187:LYS:HD3	21:BB:190:LEU:HD13	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1134:G:H5'	18:B3:1229:C:C5'	2.29	0.62
18:B3:2764:C:OP1	37:BR:13:ILE:CA	2.39	0.62
22:BC:118:TYR:HA	22:BC:132:TYR:HD1	1.63	0.62
28:BI:51:HIS:CB	28:BI:152:LEU:HD22	2.29	0.62
37:BR:96:GLU:N	38:BS:22:VAL:O	2.32	0.62
26:BG:111:GLU:O	26:BG:120:SER:HB3	1.98	0.62
31:BL:141:ILE:HG23	31:BL:142:ARG:N	2.13	0.62
31:BL:32:LYS:CA	31:BL:32:LYS:HE2	2.23	0.62
31:BL:60:ILE:HG22	31:BL:132:ILE:CA	2.27	0.62
31:BL:99:ALA:HB2	31:BL:168:LYS:HD3	1.81	0.62
18:B3:1705:C:O2	18:B3:2735:U:O2'	2.17	0.62
29:BJ:16:LEU:HD21	29:BJ:75:ALA:CB	2.28	0.62
18:B3:1447:U:N3	39:BT:70:THR:O	2.32	0.62
39:BT:65:PRO:HA	39:BT:83:PHE:CB	2.29	0.62
3:AB:75:ILE:HG23	3:AB:122:VAL:HA	1.80	0.62
3:AB:30:VAL:O	3:AB:33:GLU:HB2	1.98	0.62
1:AA:33:A:O2'	1:AA:364:A:H4'	1.99	0.62
12:AL:70:LYS:O	12:AL:87:VAL:HG22	1.99	0.62
1:AA:68:G:N7	1:AA:73:C:C5	2.67	0.62
2:AT:465:LYS:HZ3	2:AT:511:LEU:HG	0.66	0.62
27:BH:103:ILE:O	27:BH:103:ILE:HG13	1.98	0.62
27:BH:112:ILE:HD11	27:BH:128:VAL:CG2	2.30	0.62
43:BW:22:VAL:HG11	43:BW:25:LYS:CG	2.24	0.62
41:BV:80:LEU:CD2	41:BV:86:ARG:HG3	2.28	0.62
18:B3:1154:A:C8	18:B3:1156:C:C6	2.87	0.62
32:BM:32:ILE:HG13	32:BM:33:VAL:HG22	1.79	0.62
29:BJ:132:ARG:N	29:BJ:133:PRO:HD3	2.14	0.62
21:BB:31:LEU:N	21:BB:31:LEU:HD12	2.14	0.62
18:B3:178:U:OP1	45:BY:52:ALA:N	2.30	0.62
2:AT:734:GLN:HE21	2:AT:767:THR:CG2	2.12	0.62
1:AA:686:U:O2'	1:AA:687:A:H8	1.82	0.62
2:AT:81:MET:HG3	2:AT:339:VAL:HG11	1.81	0.62
1:AA:1332:A:P	13:AM:40:ARG:HD2	2.39	0.62
18:B3:537:G:O2'	42:B0:41:VAL:CG1	2.46	0.62
19:B4:8:G:O6	24:BE:21:ARG:CD	2.48	0.62
24:BE:21:ARG:HH11	24:BE:21:ARG:HA	1.64	0.62
18:B3:1343:C:N3	23:BD:186:LEU:O	2.21	0.62
23:BD:25:PHE:HE1	23:BD:128:THR:HB	1.64	0.62
34:BO:60:PRO:CG	34:BO:86:THR:H	2.12	0.62
18:B3:719:C:H1'	34:BO:73:GLN:OE1	1.99	0.62
34:BO:81:VAL:CG1	34:BO:138:LEU:HD22	2.28	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:45:LYS:O	21:BB:59:LYS:HB2	1.99	0.62
25:BF:168:ILE:HD11	25:BF:183:LEU:CD2	2.29	0.62
16:AQ:108:VAL:HG11	16:AQ:138:VAL:CG1	2.29	0.62
18:B3:67:A:O5'	44:BX:55:LEU:HD21	1.85	0.62
18:B3:1054:G:C4	28:BI:111:LEU:CD1	2.82	0.62
22:BC:46:LEU:HB3	22:BC:336:THR:O	1.99	0.62
22:BC:353:VAL:HG22	22:BC:354:SER:N	2.14	0.62
22:BC:91:TYR:HB3	22:BC:99:ARG:NH2	2.14	0.62
28:BI:51:HIS:CA	28:BI:166:ILE:HD11	2.29	0.62
37:BR:45:ARG:HG2	37:BR:46:LEU:H	1.64	0.62
26:BG:217:ILE:HD13	26:BG:218:ASP:H	1.63	0.62
18:B3:2346:C:C6	29:BJ:64:ILE:CG1	2.81	0.62
29:BJ:41:GLY:HA3	29:BJ:74:LYS:HZ3	1.63	0.62
1:AA:400:C:H2'	1:AA:622:A:C4'	2.23	0.62
8:AH:27:ARG:HG3	8:AH:28:PRO:CD	2.26	0.62
8:AH:23:GLN:HG3	8:AH:61:VAL:HG11	1.81	0.62
2:AT:140:GLU:HG3	2:AT:188:ILE:HD13	1.80	0.62
2:AT:141:THR:CG2	2:AT:483:PHE:CD2	2.82	0.62
1:AA:677:U:H3	1:AA:713:G:H22	1.45	0.62
40:BU:58:VAL:HG23	40:BU:103:LYS:HZ1	1.64	0.62
40:BU:72:SER:CB	40:BU:81:GLN:H	2.09	0.62
1:AA:14:U:OP1	1:AA:914:A:C3'	2.41	0.62
18:B3:905:C:N4	41:BV:9:LYS:HG3	2.13	0.62
41:BV:126:ALA:N	41:BV:146:LEU:HG	2.14	0.62
1:AA:321:A:OP1	1:AA:1437:C:O4'	2.17	0.62
42:B0:62:LYS:HD2	42:B0:63:THR:OG1	1.97	0.62
15:AO:94:ALA:HA	15:AO:117:ILE:CD1	2.30	0.62
18:B3:149:G:OP1	45:BY:42:LYS:CB	2.45	0.62
21:BB:199:ARG:NH1	21:BB:199:ARG:H	1.97	0.62
4:AC:109:LEU:HD13	4:AC:175:LEU:O	1.99	0.62
4:AC:105:LYS:HG3	4:AC:172:ARG:HB3	1.79	0.62
1:AA:107:G:H2'	1:AA:108:G:H5'	1.81	0.62
7:AG:159:VAL:HG22	7:AG:160:ASP:N	2.14	0.62
2:AT:213:SER:OG	2:AT:216:HIS:HB2	1.99	0.62
18:B3:1450:C:O2'	18:B3:1493:A:H2'	1.99	0.62
1:AA:1219:U:O3'	17:AS:59:LYS:CA	2.46	0.62
18:B3:538:C:H5"	18:B3:539:G:C8	2.34	0.62
18:B3:541:C:C5'	42:B0:15:LYS:H	2.11	0.62
9:AI:98:GLU:HA	9:AI:105:LYS:CA	2.29	0.62
18:B3:2387:U:H2'	18:B3:2388:C:C6	2.35	0.62
19:B4:47:A:C5'	24:BE:153:THR:HA	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:144:VAL:CG2	24:BE:171:LEU:HD21	2.30	0.62
18:B3:500:G:C4'	33:BN:17:ARG:N	2.53	0.62
42:B0:101:SER:CB	42:B0:105:ARG:HG2	2.30	0.62
18:B3:553:G:C5'	42:B0:69:SER:OG	2.47	0.62
18:B3:1343:C:C2	23:BD:188:ALA:CA	2.82	0.62
23:BD:5:VAL:HG21	23:BD:150:VAL:HG11	1.81	0.62
23:BD:191:GLY:HA3	23:BD:197:ARG:CD	2.29	0.62
18:B3:890:C:O2	45:BY:48:TRP:C	2.37	0.62
18:B3:773:A:O2'	45:BY:48:TRP:HZ3	1.80	0.62
18:B3:1181:A:C3'	30:BK:106:LEU:HA	2.06	0.62
18:B3:1653:A:N6	21:BB:183:ARG:NH2	2.47	0.62
18:B3:944:G:O2'	25:BF:125:LEU:CD2	2.47	0.62
25:BF:86:VAL:O	25:BF:133:VAL:HB	2.00	0.62
25:BF:168:ILE:HG23	25:BF:175:TYR:CB	2.29	0.62
1:AA:190(D):U:O2'	16:AQ:109:HIS:CG	2.52	0.62
1:AA:190(E):U:C3'	16:AQ:109:HIS:CE1	2.44	0.62
18:B3:106:A:O2'	44:BX:57:VAL:C	2.37	0.62
18:B3:1732:A:H1'	18:B3:2840:A:OP1	2.00	0.62
18:B3:2819:C:H5''	22:BC:101:LEU:CD2	2.29	0.62
18:B3:2821:C:H5'	22:BC:104:VAL:N	2.12	0.62
22:BC:217:ILE:N	22:BC:217:ILE:HD13	2.14	0.62
22:BC:216:ALA:HB3	22:BC:279:HIS:NE2	2.14	0.62
37:BR:91:VAL:HG23	38:BS:16:GLY:O	1.97	0.62
38:BS:52:THR:CB	38:BS:55:PHE:HB2	2.26	0.62
29:BJ:31:ARG:NE	29:BJ:34:LYS:HE2	2.13	0.62
29:BJ:87:GLU:HG2	29:BJ:90:LEU:CG	2.18	0.62
20:BA:204:LEU:HD22	20:BA:204:LEU:N	2.15	0.62
39:BT:108:LYS:HB2	39:BT:124:ARG:HH22	1.64	0.62
5:AD:99:LEU:CD1	5:AD:106:GLU:HB2	2.23	0.62
8:AH:109:ILE:O	8:AH:109:ILE:HG13	1.99	0.62
12:AL:59:ILE:HD11	12:AL:117:ILE:HD12	1.80	0.62
1:AA:1347:G:O2'	1:AA:1348:U:P	2.57	0.62
18:B3:2578:G:N9	18:B3:2801:A:C5'	2.62	0.62
32:BM:39:GLU:HA	32:BM:137:LEU:CD2	2.26	0.62
35:BP:22:TRP:HE1	35:BP:49:ILE:CD1	2.11	0.62
18:B3:1401:G:H5''	43:BW:62:GLY:O	1.98	0.62
41:BV:95:LYS:HG3	41:BV:96:GLU:H	1.64	0.62
18:B3:2081:A:H4'	32:BM:69:PRO:HB2	1.81	0.62
1:AA:1483:A:C5'	18:B3:1988:C:O2'	2.47	0.62
15:AO:117:ILE:HG13	15:AO:118:GLU:N	2.12	0.62
15:AO:118:GLU:HG3	15:AO:119:SER:N	2.13	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:98:LYS:CE	6:AE:114:ILE:HD12	2.29	0.62
43:BW:76:ARG:HA	43:BW:82:GLU:CD	2.18	0.62
19:B4:55:U:H4'	19:B4:56:A:O5'	1.99	0.62
38:BS:39:LEU:CD2	38:BS:44:LYS:HB3	2.28	0.62
7:AG:83:LYS:N	7:AG:83:LYS:HD3	2.11	0.62
3:AB:109:TYR:OH	3:AB:114:PHE:HB3	1.99	0.62
18:B3:1766:U:O2	18:B3:1778:A:H5'	1.98	0.62
18:B3:2266:A:H2'	18:B3:2267:G:C8	2.35	0.62
27:BH:140:VAL:HG23	27:BH:141:LYS:N	2.14	0.62
19:B4:20:G:O2'	19:B4:21:G:H5'	1.99	0.62
1:AA:1221:G:P	17:AS:81:ARG:CA	2.88	0.62
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.99	0.62
9:AI:99:GLN:HB3	9:AI:114:THR:CA	2.29	0.62
24:BE:47:PRO:O	24:BE:48:LYS:HG3	1.98	0.62
36:BQ:20:ARG:HG2	36:BQ:21:LYS:N	2.14	0.62
36:BQ:75:ILE:H	36:BQ:91:LEU:HD23	1.62	0.62
18:B3:524:A:H5''	33:BN:29:ARG:NH2	2.14	0.62
18:B3:517:U:O2'	18:B3:1319:G:N1	2.32	0.62
18:B3:518:G:O5'	18:B3:1338:U:O2'	0.71	0.62
23:BD:137:ARG:CD	23:BD:243:LEU:H	2.11	0.62
23:BD:177:LEU:H	23:BD:177:LEU:HD13	1.63	0.62
23:BD:177:LEU:O	23:BD:180:VAL:HG23	1.98	0.62
23:BD:19:LEU:HD23	23:BD:19:LEU:H	1.62	0.62
34:BO:62:VAL:HG11	34:BO:87:VAL:C	2.20	0.62
47:B9:32:GLN:OE1	47:B9:69:THR:HG22	2.00	0.62
18:B3:1853:C:H4'	21:BB:237:ILE:HB	1.80	0.62
18:B3:2489:G:O3'	18:B3:2490:A:C8	2.51	0.62
22:BC:92:VAL:CG2	22:BC:101:LEU:HD11	2.25	0.62
22:BC:228:VAL:HB	22:BC:232:TRP:HZ2	1.65	0.62
22:BC:261:TRP:HE3	22:BC:263:VAL:H	1.45	0.62
22:BC:69:ARG:HD3	37:BR:89:ASP:CG	2.17	0.62
28:BI:51:HIS:N	28:BI:166:ILE:HD11	2.14	0.62
28:BI:6:ALA:HB1	28:BI:10:ARG:NE	2.14	0.62
28:BI:35:ASP:HA	28:BI:88:ARG:CZ	2.29	0.62
26:BG:165:LEU:O	26:BG:169:CYS:HB3	2.00	0.62
31:BL:112:LEU:HD13	31:BL:112:LEU:H	1.63	0.62
31:BL:188:LYS:CG	31:BL:189:THR:H	2.11	0.62
18:B3:1714:C:C5'	18:B3:2745:C:O4'	2.46	0.62
35:BP:109:ARG:NH1	35:BP:109:ARG:HG2	2.14	0.62
41:BV:25:ARG:HG2	41:BV:27:HIS:HD2	1.62	0.62
20:BA:55:LEU:N	20:BA:55:LEU:HD12	2.14	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:56:PRO:HB2	20:BA:155:ILE:CD1	2.01	0.62
39:BT:104:VAL:HG22	39:BT:129:TYR:CD2	2.34	0.62
3:AB:139:ASN:N	8:AH:69:ASN:O	2.32	0.62
1:AA:11:G:C2'	1:AA:525:C:O2'	2.48	0.62
1:AA:551:U:H2'	1:AA:552:U:H6	1.64	0.62
18:B3:1245:C:H42	32:BM:124:ARG:HD2	1.64	0.62
18:B3:215:A:O2'	41:BV:58:ARG:NH2	2.33	0.62
35:BP:14:VAL:CG1	35:BP:16:VAL:HG22	2.30	0.62
43:BW:61:ARG:HG2	43:BW:62:GLY:H	1.62	0.62
1:AA:359:U:H6	2:AT:391:LYS:HG3	1.60	0.62
1:AA:404:U:O2'	5:AD:23:ARG:NH1	2.33	0.62
1:AA:405:U:OP1	5:AD:23:ARG:NH2	2.33	0.62
41:BV:127:ARG:HG2	41:BV:128:PHE:N	2.13	0.62
1:AA:1115:C:C5'	10:AJ:85:ARG:HH22	2.08	0.62
21:BB:4:ILE:HG23	21:BB:208:HIS:CD2	2.34	0.62
7:AG:165:ARG:HA	7:AG:168:ASN:OD1	2.00	0.62
5:AD:39:LYS:HG3	5:AD:40:LYS:N	2.09	0.62
4:AC:159:SER:HB2	4:AC:167:ILE:CD1	2.28	0.62
23:BD:155:LEU:HD22	23:BD:158:ILE:HD12	1.82	0.62
5:AD:54:ARG:HG3	5:AD:54:ARG:O	1.99	0.62
27:BH:91:ARG:HG2	27:BH:142:ASP:O	1.99	0.62
18:B3:1217:G:H2'	18:B3:1218:U:C6	2.33	0.62
1:AA:428:G:H4'	1:AA:429:U:O5'	1.98	0.62
1:AA:1296:C:O2'	13:AM:54:LEU:HB2	1.99	0.62
13:AM:91:ASP:O	13:AM:109:LEU:CD1	2.42	0.62
13:AM:15:LEU:HG	13:AM:16:ARG:N	2.11	0.62
1:AA:1299:A:H4'	13:AM:57:ARG:NH1	2.13	0.62
17:AS:107:ILE:O	17:AS:107:ILE:HG13	1.98	0.62
1:AA:1153:C:H2'	1:AA:1154:G:H8	1.63	0.62
9:AI:51:LEU:HD22	9:AI:58:LYS:CE	2.29	0.62
19:B4:48:C:O3'	24:BE:99:TYR:OH	2.16	0.62
24:BE:160:PHE:O	24:BE:163:LEU:HB3	1.98	0.62
36:BQ:75:ILE:HG23	36:BQ:76:ILE:N	2.15	0.62
33:BN:25:PHE:CG	33:BN:28:THR:HG21	2.35	0.62
33:BN:29:ARG:HH12	33:BN:61:ARG:HH12	1.47	0.62
33:BN:58:PRO:HG2	33:BN:75:PHE:HE1	1.65	0.62
33:BN:59:PHE:HD2	33:BN:81:ARG:HD3	1.61	0.62
18:B3:449:A:P	18:B3:1306:U:C1'	2.86	0.62
23:BD:196:ARG:HG2	23:BD:196:ARG:O	1.97	0.62
23:BD:256:LYS:HB3	23:BD:259:GLN:CB	2.30	0.62
45:BY:33:CYS:HA	45:BY:38:TYR:HE1	1.62	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:110:THR:HG23	21:BB:112:VAL:CG2	2.28	0.62
18:B3:944:G:H5''	25:BF:97:LYS:CG	2.28	0.62
25:BF:178:LEU:CB	25:BF:180:ILE:HD11	2.28	0.62
25:BF:135:TYR:O	25:BF:235:ILE:HG13	1.99	0.62
1:AA:129:U:C2'	16:AQ:128:ARG:HA	2.26	0.62
18:B3:106:A:H5''	44:BX:60:GLU:CD	2.20	0.62
22:BC:201:THR:HG22	22:BC:202:VAL:N	2.15	0.62
22:BC:261:TRP:HE3	22:BC:263:VAL:N	1.97	0.62
37:BR:80:ARG:HA	37:BR:80:ARG:NE	2.15	0.62
18:B3:2123:A:P	31:BL:88:VAL:HG23	2.40	0.62
18:B3:1805:G:C8	18:B3:2875:A:H1'	2.31	0.62
35:BP:94:TRP:CZ3	35:BP:95:ILE:HG23	2.34	0.62
20:BA:54:LYS:HD2	20:BA:158:GLN:HB2	1.81	0.62
10:AJ:69:LYS:CE	14:AN:39:ARG:HH12	2.12	0.62
3:AB:81:GLY:HA2	3:AB:169:ILE:HD12	1.79	0.62
8:AH:13:ILE:HD11	8:AH:26:ILE:CD1	2.26	0.62
1:AA:363:A:N6	12:AL:43:PHE:HD1	1.97	0.62
27:BH:9:GLN:CA	27:BH:54:LYS:HG2	2.29	0.62
32:BM:21:VAL:O	32:BM:24:LYS:HB2	1.99	0.62
43:BW:7:VAL:O	43:BW:74:ILE:HG22	1.99	0.62
40:BU:35:LEU:HA	40:BU:106:ILE:HG13	1.81	0.62
41:BV:132:LEU:H	41:BV:132:LEU:CD2	2.12	0.62
1:AA:518:C:N3	12:AL:65:ASN:HA	2.14	0.62
1:AA:113:G:H1'	1:AA:354:G:H5'	1.81	0.62
46:BZ:2:ASN:CB	46:BZ:91:GLU:HG2	2.21	0.62
45:BY:37:GLY:N	45:BY:44:ARG:HG3	2.14	0.62
15:AO:74:LEU:HA	15:AO:89:TYR:CE1	2.35	0.62
3:AB:73:VAL:CG2	3:AB:117:PRO:HB3	2.24	0.62
18:B3:372:A:H2'	18:B3:373:G:H8	1.64	0.62
2:AT:186:ASN:HB3	2:AT:201:GLN:NE2	2.13	0.62
1:AA:996:A:H2'	1:AA:997:U:C6	2.35	0.62
1:AA:988:G:C4	1:AA:1015:A:N7	2.67	0.62
1:AA:1219:U:H4'	17:AS:58:LYS:O	1.42	0.62
18:B3:617:C:O2'	42:B0:45:ARG:HG3	1.99	0.62
18:B3:1019:C:C4'	36:BQ:61:THR:HG22	2.29	0.62
24:BE:144:VAL:O	24:BE:173:VAL:HG12	1.99	0.62
36:BQ:48:ILE:HD13	36:BQ:48:ILE:O	1.99	0.62
33:BN:23:VAL:HG22	33:BN:24:SER:N	2.13	0.62
18:B3:671:A:O2'	18:B3:672:G:H2'	2.00	0.62
18:B3:1304:U:C2'	23:BD:194:ARG:HB2	2.24	0.62
21:BB:116:GLU:CD	21:BB:162:ARG:HG3	2.19	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1287:A:N6	25:BF:201:LEU:HD13	2.15	0.62
25:BF:151:GLY:HA3	25:BF:162:LEU:CD2	2.29	0.62
1:AA:254:G:C5'	16:AQ:79:MET:HE1	2.29	0.62
28:BI:59:GLN:HB2	28:BI:128:ARG:CG	2.29	0.62
18:B3:2720:C:C5'	38:BS:33:ASN:ND2	2.24	0.62
18:B3:2349:G:C4'	29:BJ:15:LYS:NZ	2.42	0.62
29:BJ:71:ARG:CZ	29:BJ:75:ALA:H	2.12	0.62
20:BA:51:GLY:O	20:BA:54:LYS:CA	2.48	0.62
39:BT:74:LYS:HB3	39:BT:81:LEU:CD1	2.29	0.62
4:AC:6:LYS:CE	4:AC:7:LYS:H	2.12	0.62
8:AH:23:GLN:HG3	8:AH:61:VAL:HG13	1.80	0.62
18:B3:1993:C:P	37:BR:71:LYS:HA	2.40	0.62
18:B3:2559:C:O4'	18:B3:2799:A:C4'	2.47	0.62
27:BH:128:VAL:HG13	27:BH:157:ASN:ND2	2.13	0.62
27:BH:20:ILE:HD12	27:BH:25:VAL:CB	2.29	0.62
27:BH:46:THR:HG22	27:BH:55:VAL:H	1.65	0.62
32:BM:125:VAL:CA	32:BM:128:LEU:HD11	2.07	0.62
40:BU:50:ILE:HD12	40:BU:101:PRO:HG3	1.81	0.62
6:AE:206:LEU:HD22	6:AE:206:LEU:N	2.15	0.62
18:B3:906:C:N3	18:B3:1328:A:N7	2.38	0.62
18:B3:1154:A:C5	18:B3:1156:C:H1'	2.34	0.62
2:AT:757:GLU:CB	18:B3:1171:A:H1'	2.27	0.62
4:AC:105:LYS:HB3	4:AC:174:VAL:CG2	2.30	0.62
32:BM:98:LEU:HA	32:BM:101:LEU:HD11	1.80	0.62
20:BA:195:LYS:C	20:BA:195:LYS:HD2	2.20	0.62
31:BL:175:LYS:HA	31:BL:175:LYS:HZ1	1.65	0.62
1:AA:1350:A:H2	7:AG:103:ASN:O	1.83	0.62
8:AH:82:ILE:HD13	8:AH:82:ILE:N	2.14	0.62
20:BA:23:THR:HG23	20:BA:25:LYS:N	2.15	0.62
38:BS:5:ILE:N	38:BS:5:ILE:HD13	2.15	0.62
18:B3:2849:U:O2'	18:B3:2850:C:OP2	2.16	0.62
18:B3:619:U:C5'	42:B0:41:VAL:HA	2.19	0.62
18:B3:621:C:H5"	42:B0:35:GLN:C	2.14	0.62
18:B3:621:C:P	42:B0:40:SER:CB	2.87	0.62
9:AI:47:VAL:HG13	9:AI:81:ARG:HA	1.81	0.62
10:AJ:32:LYS:HE2	10:AJ:35:GLU:HB2	1.80	0.62
10:AJ:37:VAL:HG23	10:AJ:38:SER:N	2.14	0.62
10:AJ:97:VAL:HG22	10:AJ:98:GLN:N	2.15	0.62
19:B4:48:C:O3'	24:BE:158:ARG:HG2	2.00	0.62
18:B3:2413:A:C4'	24:BE:175:HIS:O	2.47	0.62
19:B4:8:G:N7	24:BE:21:ARG:HG2	2.14	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:51:LEU:HB2	24:BE:144:VAL:HG11	1.80	0.62
24:BE:95:TRP:O	24:BE:98:ALA:HB3	2.00	0.62
33:BN:25:PHE:CE2	33:BN:118:VAL:HG23	2.34	0.62
33:BN:59:PHE:HB2	33:BN:62:PHE:HB3	1.80	0.62
18:B3:450:C:H3'	18:B3:1304:U:C2'	2.25	0.62
23:BD:149:LEU:HD23	23:BD:248:ILE:CB	2.29	0.62
34:BO:24:VAL:HG13	34:BO:25:TYR:N	2.15	0.62
30:BK:85:LEU:HD13	30:BK:103:ASN:N	2.14	0.62
18:B3:1180:C:O2	30:BK:107:ASP:HA	2.00	0.62
21:BB:232:GLN:HG3	21:BB:233:LYS:H	1.65	0.62
21:BB:242:THR:HG22	21:BB:243:GLY:N	2.15	0.62
18:B3:944:G:H1'	25:BF:100:LYS:HZ1	1.65	0.62
25:BF:182:ASP:O	25:BF:185:HIS:HB3	2.00	0.62
1:AA:190(E):U:O2	16:AQ:131:SER:HB3	1.82	0.62
18:B3:952:G:H4'	36:BQ:14:MET:HG2	1.82	0.62
18:B3:487:G:O5'	40:BU:90:VAL:CA	2.47	0.62
18:B3:2897:C:O3'	22:BC:312:HIS:HA	1.99	0.62
28:BI:60:LEU:C	28:BI:126:ALA:HB1	2.20	0.62
31:BL:48:ARG:N	31:BL:52:TYR:HB3	2.14	0.62
31:BL:70:ARG:HG2	31:BL:71:LYS:N	2.11	0.62
18:B3:2735:U:P	35:BP:79:LYS:HD2	2.39	0.62
1:AA:1240:U:C5'	7:AG:188:THR:CB	2.66	0.62
39:BT:84:GLN:HG2	39:BT:120:LYS:C	2.20	0.62
14:AN:20:CYS:O	14:AN:24:SER:HA	1.98	0.62
10:AJ:78:THR:CG2	14:AN:39:ARG:CG	2.72	0.62
1:AA:615:C:P	5:AD:107:ARG:HH12	2.21	0.62
5:AD:85:VAL:HG11	5:AD:104:PHE:CE2	2.34	0.62
2:AT:464:LEU:HD13	2:AT:510:ARG:CA	2.30	0.62
18:B3:1744:G:O3'	37:BR:22:ILE:CB	2.45	0.62
18:B3:1745:G:OP1	37:BR:22:ILE:CG2	2.47	0.62
37:BR:37:ILE:CG2	37:BR:59:MET:HB2	2.29	0.62
37:BR:64:LYS:CD	37:BR:65:GLY:H	2.11	0.62
27:BH:112:ILE:HG22	27:BH:125:ASN:CG	2.20	0.62
27:BH:34:LEU:N	27:BH:34:LEU:HD22	2.15	0.62
35:BP:9:LEU:HD22	35:BP:12:SER:OG	1.99	0.62
1:AA:764:C:H4'	15:AO:108:LYS:CG	2.30	0.62
11:AK:75:ILE:CG2	11:AK:109:LEU:HD21	2.25	0.62
18:B3:2253:G:H2'	18:B3:2254:G:H8	1.63	0.62
6:AE:112:LEU:HD13	6:AE:113:GLY:N	2.14	0.62
1:AA:562:C:O2	12:AL:31:LYS:O	2.18	0.62
18:B3:1127:C:O2'	18:B3:2492:U:H5''	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:10:U:H1'	18:B3:532:A:H62	1.63	0.62
2:AT:103:ILE:HD11	2:AT:453:ILE:CD1	2.29	0.62
18:B3:350:C:O2'	18:B3:351:G:H5'	1.99	0.62
43:BW:43:MET:HA	43:BW:43:MET:HE2	1.80	0.62
18:B3:1214:G:HO2'	18:B3:1215:A:H8	1.48	0.62
5:AD:44:ARG:HG3	5:AD:45:ILE:HG23	1.81	0.62
1:AA:1299:A:N7	13:AM:55:HIS:HA	2.15	0.62
42:B0:49:ASN:O	42:B0:50:ILE:HD13	1.95	0.62
9:AI:99:GLN:H	9:AI:105:LYS:CA	2.13	0.62
9:AI:35:ILE:O	9:AI:39:GLU:HG2	2.00	0.62
10:AJ:33:GLN:O	10:AJ:37:VAL:HG13	1.99	0.62
36:BQ:45:ASN:HD21	36:BQ:94:GLU:CG	2.07	0.62
36:BQ:57:TYR:HD2	36:BQ:76:ILE:CG2	2.11	0.62
36:BQ:91:LEU:HD12	36:BQ:91:LEU:O	1.99	0.62
18:B3:2841:A:H2	33:BN:68:ARG:CB	2.13	0.62
18:B3:2660:G:P	33:BN:71:GLN:HE21	2.18	0.62
33:BN:58:PRO:HA	33:BN:80:ALA:CB	2.27	0.62
23:BD:221:VAL:HG12	23:BD:224:VAL:H	1.65	0.62
34:BO:62:VAL:HG13	34:BO:63:SER:N	2.11	0.62
18:B3:1164:U:OP2	30:BK:20:GLY:CA	2.42	0.62
18:B3:1167:G:OP2	30:BK:48:LYS:CD	2.14	0.62
18:B3:1875:A:H3'	21:BB:150:PRO:HB3	1.82	0.62
47:B9:22:ARG:HD2	47:B9:24:GLN:HB3	1.81	0.62
21:BB:134:ILE:HG13	21:BB:148:ARG:CG	2.30	0.62
25:BF:109:ARG:CG	25:BF:112:SER:HB2	2.29	0.62
18:B3:1133:A:H2	18:B3:2501:G:C5	2.18	0.62
18:B3:2668:G:O2'	22:BC:128:ALA:HB1	2.00	0.62
28:BI:50:VAL:HG22	28:BI:51:HIS:N	2.13	0.62
18:B3:432:G:O2'	18:B3:433:C:H5'	1.99	0.62
31:BL:183:LYS:HA	31:BL:183:LYS:CE	2.26	0.62
18:B3:1816:C:C5	18:B3:2746:A:C2	2.87	0.62
18:B3:1565:C:O2'	35:BP:59:LYS:HD2	1.99	0.62
18:B3:1508:C:C5'	39:BT:77:ASP:C	2.66	0.62
1:AA:642:A:N7	8:AH:106:SER:HA	2.14	0.62
1:AA:6:G:H2'	6:AE:196:TYR:CE2	2.35	0.62
1:AA:552:U:C5'	12:AL:107:PHE:N	2.62	0.62
18:B3:1115:U:H4'	18:B3:1223:G:H21	1.63	0.62
27:BH:126:VAL:HG23	27:BH:127:PRO:HD3	1.81	0.62
27:BH:167:VAL:HG21	27:BH:170:LYS:HE3	1.81	0.62
1:AA:144:G:C5	1:AA:199:G:C4'	2.81	0.62
18:B3:2461:U:O5'	46:BZ:60:LYS:HG3	1.94	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:699:C:OP2	41:BV:114:LYS:CA	2.48	0.62
1:AA:754:C:C1'	15:AO:127:TYR:CE2	2.82	0.62
18:B3:2251:G:C2	21:BB:33:TYR:CD1	2.57	0.62
1:AA:828:A:O2'	3:AB:29:GLN:OE1	2.17	0.62
6:AE:115:LYS:CE	6:AE:130:ILE:HB	2.30	0.62
6:AE:86:GLN:CA	6:AE:95:THR:HG22	2.28	0.62
6:AE:75:LEU:HD22	6:AE:132:LYS:HE2	1.81	0.62
2:AT:836:GLN:HE21	2:AT:836:GLN:H	1.45	0.62
25:BF:231:ARG:HB2	25:BF:234:PHE:HB2	1.80	0.62
2:AT:813:SER:O	2:AT:817:GLU:HG3	1.98	0.62
18:B3:999:C:H2'	18:B3:1000:C:C6	2.35	0.62
1:AA:1319:A:OP1	17:AS:84:ILE:CB	2.47	0.62
18:B3:1694:G:H21	45:BY:5:PRO:N	1.95	0.62
18:B3:2413:A:O2'	24:BE:174:PRO:CB	2.47	0.62
24:BE:142:PHE:O	24:BE:143:LYS:HG3	1.99	0.62
24:BE:22:ARG:HH22	24:BE:24:ARG:HH22	1.48	0.62
36:BQ:60:LYS:CB	36:BQ:76:ILE:HD12	2.30	0.62
36:BQ:79:MET:HE2	36:BQ:82:ASN:HA	1.82	0.62
33:BN:148:VAL:HG12	33:BN:149:VAL:N	2.15	0.62
33:BN:70:ALA:O	33:BN:74:GLU:HB3	1.98	0.62
33:BN:23:VAL:HG21	33:BN:86:SER:HA	1.81	0.62
18:B3:1317:A:OP1	42:B0:101:SER:HA	2.00	0.62
18:B3:1335:C:P	42:B0:100:ILE:HD12	2.39	0.62
23:BD:208:TYR:CD2	23:BD:224:VAL:HG21	2.35	0.62
18:B3:1348:A:C5'	23:BD:35:HIS:HB2	2.17	0.62
18:B3:1182:U:C1'	30:BK:105:GLN:HA	2.29	0.62
18:B3:1900:A:OP1	21:BB:225:SER:HA	2.00	0.62
21:BB:89:ALA:HA	21:BB:100:VAL:HG22	1.80	0.62
21:BB:179:LEU:CD2	47:B9:21:LEU:HD13	2.12	0.62
1:AA:130:A:OP2	1:AA:190(E):U:OP2	2.18	0.62
18:B3:2846:C:O2'	22:BC:172:GLN:NE2	2.32	0.62
22:BC:251:ILE:HG21	22:BC:259:VAL:HG11	1.82	0.62
22:BC:355:LEU:HD22	22:BC:355:LEU:O	1.98	0.62
22:BC:360:THR:H	38:BS:14:TYR:HB3	0.55	0.62
18:B3:2756:U:O3'	22:BC:364:PHE:HB2	1.99	0.62
18:B3:1056:U:P	28:BI:110:ARG:N	2.64	0.62
37:BR:11:PHE:CB	37:BR:86:ARG:HE	2.08	0.62
18:B3:2136:G:C6	18:B3:2238:A:N6	2.68	0.62
18:B3:2245:C:C5	18:B3:2246:U:H5	2.09	0.62
18:B3:1814:G:H8	18:B3:2731:G:N3	1.98	0.62
18:B3:920:C:O5'	41:BV:39:HIS:O	2.15	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2350:G:N1	29:BJ:116:ASP:HB2	2.14	0.62
18:B3:2347:C:C1'	29:BJ:67:HIS:C	2.62	0.62
18:B3:1448:A:H5'	18:B3:1507:C:OP1	1.96	0.62
18:B3:1675:C:C6	39:BT:112:LEU:C	2.67	0.62
1:AA:619:U:C3'	5:AD:129:ILE:CD1	2.67	0.62
8:AH:52:ILE:CG2	8:AH:61:VAL:HG23	2.29	0.62
18:B3:2781:U:O4'	27:BH:155:SER:CB	2.33	0.62
32:BM:35:VAL:HG11	32:BM:109:PRO:HB3	1.80	0.62
32:BM:52:LYS:CA	32:BM:58:ARG:HE	2.13	0.62
35:BP:14:VAL:HG11	35:BP:16:VAL:HG22	1.82	0.62
43:BW:17:LYS:HD2	43:BW:66:VAL:HB	1.82	0.62
1:AA:1406:U:O2	1:AA:1517:G:H2'	2.00	0.62
40:BU:31:LEU:HD22	40:BU:101:PRO:CG	2.29	0.62
21:BB:4:ILE:N	21:BB:4:ILE:HD12	2.15	0.62
2:AT:685:ARG:NE	2:AT:687:ASN:HD21	1.92	0.62
2:AT:829:LYS:HE3	2:AT:830:GLU:N	2.15	0.62
4:AC:92:ASP:OD2	4:AC:95:LEU:HG	2.00	0.62
13:AM:23:ASP:CG	13:AM:31:ALA:HB1	2.19	0.62
1:AA:1318:A:C2'	17:AS:83:MET:HA	2.28	0.62
10:AJ:52:LYS:CD	10:AJ:91:ILE:HG22	2.30	0.62
33:BN:124:GLN:CB	33:BN:139:GLU:HG2	2.28	0.62
18:B3:449:A:C4'	18:B3:1306:U:C4	2.82	0.62
18:B3:449:A:H2'	23:BD:46:ARG:NE	2.12	0.62
18:B3:672:G:C5'	23:BD:214:ILE:CB	2.77	0.62
18:B3:722:G:H1'	34:BO:141:ARG:HE	1.64	0.62
23:BD:170:ALA:O	23:BD:171:VAL:HG13	1.99	0.62
18:B3:35:U:C4'	23:BD:49:TYR:N	2.51	0.62
25:BF:82:LEU:HB2	25:BF:115:PHE:CZ	2.34	0.62
25:BF:101:VAL:HG21	25:BF:125:LEU:HD22	1.79	0.62
25:BF:177:ILE:HG13	25:BF:182:ASP:CG	2.20	0.62
19:B4:85:A:C1'	25:BF:228:PHE:HZ	1.84	0.62
18:B3:2806:C:C5'	22:BC:343:THR:CG2	2.72	0.62
22:BC:239:ARG:CA	22:BC:242:HIS:HB3	2.05	0.62
22:BC:221:LYS:HG3	22:BC:331:ARG:HG3	1.82	0.62
18:B3:2806:C:H5"	22:BC:343:THR:HA	1.81	0.62
22:BC:39:PRO:HB2	22:BC:182:LEU:CB	2.28	0.62
22:BC:32:PRO:CG	22:BC:43:THR:HG21	2.29	0.62
18:B3:2762:C:O4'	37:BR:16:GLY:O	2.17	0.62
18:B3:2709:G:C8	37:BR:7:GLN:CG	2.83	0.62
18:B3:2242:U:C4	18:B3:2257:G:C6	2.87	0.62
26:BG:162:VAL:HG23	26:BG:165:LEU:HD23	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:112:ILE:HD11	7:AG:193:LEU:HD13	1.82	0.62
18:B3:921:G:H1'	41:BV:41:ARG:HB3	1.81	0.62
18:B3:2347:C:O2'	29:BJ:67:HIS:C	2.38	0.62
39:BT:91:LYS:O	39:BT:109:VAL:HG11	2.00	0.62
4:AC:6:LYS:HG3	4:AC:8:ARG:H	1.64	0.62
10:AJ:74:GLU:C	14:AN:40:GLN:HB2	2.19	0.62
10:AJ:70:THR:HG21	14:AN:40:GLN:N	2.10	0.62
37:BR:28:ASN:HA	37:BR:102:ILE:HD11	1.81	0.62
1:AA:1346:A:H61	7:AG:80:ARG:NH2	1.98	0.62
27:BH:12:VAL:H	27:BH:52:LEU:HD22	1.65	0.62
43:BW:11:TYR:OH	43:BW:72:LEU:HD13	2.00	0.62
43:BW:9:ARG:HH12	43:BW:72:LEU:CD1	2.13	0.62
46:BZ:62:LYS:CD	46:BZ:64:THR:H	2.12	0.62
40:BU:100:HIS:HB3	40:BU:103:LYS:CG	2.24	0.62
40:BU:106:ILE:O	40:BU:106:ILE:HG13	1.98	0.62
40:BU:44:GLY:O	40:BU:45:ILE:HB	1.99	0.62
18:B3:905:C:C5'	41:BV:11:ARG:CZ	2.53	0.62
41:BV:86:ARG:HH22	41:BV:91:LYS:HB2	1.65	0.62
1:AA:1484:C:N1	18:B3:2001:G:O2'	2.22	0.62
40:BU:14:LYS:CA	40:BU:14:LYS:HE2	2.30	0.62
21:BB:201:VAL:HG21	21:BB:217:HIS:O	1.99	0.62
24:BE:191:ASP:OD1	24:BE:192:PRO:HD3	2.00	0.62
22:BC:143:ILE:CG2	22:BC:147:LEU:HD13	2.30	0.62
2:AT:685:ARG:HE	2:AT:687:ASN:ND2	1.93	0.62
18:B3:1362:U:O4'	23:BD:94:ARG:CZ	2.46	0.62
1:AA:1413:A:H2	1:AA:1487:G:H22	1.47	0.62
19:B4:107:C:H2'	19:B4:108:C:C6	2.34	0.62
4:AC:66:ASN:O	4:AC:69:THR:HG22	1.99	0.62
1:AA:1243:C:O2'	13:AM:48:LYS:CE	2.48	0.61
13:AM:61:LEU:HD22	13:AM:65:GLU:OE1	1.99	0.61
18:B3:1074:G:C4'	42:B0:45:ARG:HH11	2.13	0.61
19:B4:36:C:O2	24:BE:181:PRO:HD3	2.00	0.61
19:B4:69:U:C5'	24:BE:13:SER:HB2	2.25	0.61
24:BE:148:ILE:HG12	24:BE:149:GLY:O	2.00	0.61
24:BE:18:THR:HG21	24:BE:20:PHE:CD2	2.35	0.61
24:BE:42:ALA:HA	24:BE:49:TYR:CD1	2.35	0.61
24:BE:43:LYS:CG	24:BE:44:TYR:HD1	2.12	0.61
19:B4:8:G:OP2	36:BQ:26:HIS:HE1	1.80	0.61
33:BN:25:PHE:CB	33:BN:120:GLN:HG2	2.30	0.61
42:B0:73:THR:HA	42:B0:93:ALA:HB3	1.80	0.61
23:BD:191:GLY:CA	23:BD:194:ARG:HD3	2.21	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:149:LEU:HD22	23:BD:246:PHE:HE2	1.64	0.61
18:B3:51:G:H4'	45:BY:20:ARG:HB3	1.82	0.61
23:BD:75:ARG:HD2	23:BD:75:ARG:O	2.00	0.61
18:B3:1359:U:O5'	23:BD:91:ASN:HB2	2.00	0.61
18:B3:894:A:C2	23:BD:98:MET:HB3	2.02	0.61
18:B3:120:A:N1	45:BY:16:THR:HG21	2.11	0.61
25:BF:177:ILE:HG23	25:BF:178:LEU:H	1.65	0.61
18:B3:71:G:N2	44:BX:56:THR:HG21	2.15	0.61
18:B3:2546:U:H2'	22:BC:235:LYS:CE	2.29	0.61
22:BC:15:PHE:HD2	22:BC:18:ARG:CG	2.12	0.61
22:BC:359:ASP:CA	38:BS:14:TYR:CB	2.78	0.61
26:BG:151:LEU:HD21	26:BG:185:LEU:CD1	2.30	0.61
26:BG:203:ARG:NE	26:BG:207:GLU:HG2	2.14	0.61
7:AG:122:VAL:HG23	7:AG:123:LEU:N	2.15	0.61
18:B3:898:G:C5'	41:BV:25:ARG:CD	2.78	0.61
18:B3:924:G:O6	41:BV:41:ARG:CG	2.44	0.61
20:BA:155:ILE:HG21	20:BA:167:VAL:CG1	2.30	0.61
18:B3:1674:C:O2'	39:BT:87:MET:HG3	2.00	0.61
10:AJ:75:GLY:N	14:AN:40:GLN:HG3	2.15	0.61
2:AT:141:THR:CG2	2:AT:483:PHE:HD2	2.13	0.61
27:BH:18:VAL:HG13	27:BH:26:LYS:HE2	1.82	0.61
27:BH:25:VAL:HG22	27:BH:26:LYS:HE3	1.80	0.61
27:BH:53:ILE:O	27:BH:53:ILE:HG13	1.99	0.61
32:BM:121:GLN:NE2	32:BM:121:GLN:HA	2.14	0.61
1:AA:778:G:C3'	11:AK:126:ARG:CD	2.70	0.61
18:B3:82:C:P	40:BU:75:ARG:HG3	2.30	0.61
18:B3:699:C:OP2	41:BV:114:LYS:HA	1.99	0.61
41:BV:95:LYS:HG3	41:BV:96:GLU:N	2.14	0.61
1:AA:928:G:C5'	1:AA:1533:C:N4	2.63	0.61
18:B3:1147:C:H2'	18:B3:1148:C:C5'	2.26	0.61
38:BS:39:LEU:O	38:BS:39:LEU:HD23	2.00	0.61
20:BA:5:THR:CG2	20:BA:8:GLN:HG3	2.29	0.61
12:AL:34:LEU:HD23	12:AL:35:GLY:N	2.14	0.61
10:AJ:49:ASN:CG	10:AJ:93:LEU:HD21	2.19	0.61
19:B4:7:G:C8	24:BE:22:ARG:CG	2.83	0.61
36:BQ:73:GLY:HA3	36:BQ:89:LEU:HD13	1.79	0.61
1:AA:320:C:C5'	1:AA:1435:G:H21	2.06	0.61
33:BN:107:ASP:O	33:BN:111:LEU:HD13	2.00	0.61
33:BN:118:VAL:HG13	33:BN:119:ASN:H	1.65	0.61
18:B3:35:U:H5"	23:BD:104:THR:OG1	1.98	0.61
18:B3:721:A:OP2	34:BO:72:LYS:CE	2.47	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:134:VAL:C	23:BD:137:ARG:HH22	2.04	0.61
23:BD:176:ASP:CG	23:BD:205:LEU:HD12	2.20	0.61
34:BO:81:VAL:HG21	34:BO:140:LEU:CD1	2.30	0.61
45:BY:46:TYR:HE2	45:BY:48:TRP:HB3	1.61	0.61
18:B3:1847:A:C4'	21:BB:179:LEU:O	2.36	0.61
21:BB:236:LEU:HD21	21:BB:242:THR:HG23	1.83	0.61
21:BB:47:ILE:HD11	47:B9:53:ILE:CG1	2.30	0.61
1:AA:132:C:C2	1:AA:263:A:C2	2.88	0.61
22:BC:17:PRO:HG2	22:BC:19:LYS:HZ3	1.64	0.61
22:BC:46:LEU:CD1	22:BC:80:THR:HG21	2.27	0.61
28:BI:127:ALA:HA	28:BI:128:ARG:NH2	2.14	0.61
26:BG:201:GLU:HG3	26:BG:202:VAL:N	2.15	0.61
31:BL:104:ARG:O	31:BL:105:VAL:HG23	2.00	0.61
18:B3:2736:U:C5	35:BP:61:ARG:NH1	2.46	0.61
35:BP:81:LYS:CE	35:BP:81:LYS:H	2.13	0.61
18:B3:921:G:OP1	41:BV:39:HIS:CA	2.43	0.61
20:BA:66:CYS:HA	20:BA:83:ASP:OD1	2.00	0.61
3:AB:70:GLU:HB3	3:AB:118:ARG:CG	2.30	0.61
8:AH:13:ILE:HG21	8:AH:77:ARG:HH12	1.65	0.61
1:AA:33:A:H5''	1:AA:365:U:H5'	1.81	0.61
1:AA:64:G:C4	1:AA:97:G:N1	2.68	0.61
18:B3:2561:C:H5'	18:B3:2777:G:C3'	2.29	0.61
18:B3:1116:U:O2'	18:B3:1118:A:C2	2.46	0.61
18:B3:2781:U:C4'	27:BH:155:SER:HB2	2.29	0.61
35:BP:10:ALA:HB1	35:BP:21:VAL:HG21	1.82	0.61
40:BU:59:VAL:O	40:BU:60:ARG:HB2	2.00	0.61
18:B3:905:C:C4	18:B3:1330:A:N3	2.68	0.61
1:AA:1483:A:H2'	18:B3:2001:G:C1'	2.29	0.61
40:BU:16:ARG:NH1	40:BU:17:LYS:HB3	2.15	0.61
21:BB:199:ARG:NH2	21:BB:202:ALA:HB2	2.15	0.61
34:BO:98:LYS:HA	34:BO:118:GLY:O	2.00	0.61
7:AG:161:VAL:HG23	7:AG:165:ARG:HD2	1.81	0.61
18:B3:1096:U:C2'	25:BF:213:TRP:HZ3	2.14	0.61
18:B3:1701:A:H4'	18:B3:1702:U:C5'	2.30	0.61
1:AA:1350:A:H2'	7:AG:103:ASN:ND2	2.15	0.61
1:AA:1260:C:O5'	1:AA:1284:C:H4'	1.99	0.61
12:AL:29:TYR:C	12:AL:30:LYS:HD2	2.21	0.61
1:AA:757:U:H2'	1:AA:758:G:O4'	2.00	0.61
27:BH:70:THR:O	27:BH:74:LEU:HD23	2.00	0.61
17:AS:58:LYS:N	17:AS:58:LYS:HD2	2.15	0.61
45:BY:4:THR:N	45:BY:5:PRO:HA	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1152:A:OP2	10:AJ:60:THR:HG21	2.00	0.61
9:AI:6:VAL:HG11	9:AI:91:TYR:HB2	1.81	0.61
9:AI:98:GLU:H	9:AI:103:GLU:C	2.03	0.61
9:AI:99:GLN:HB3	9:AI:114:THR:HA	1.82	0.61
24:BE:113:LEU:HD13	24:BE:114:GLY:H	1.65	0.61
24:BE:53:VAL:HG11	24:BE:159:VAL:HA	1.82	0.61
36:BQ:32:LYS:NZ	36:BQ:97:LYS:HE2	2.15	0.61
18:B3:501:G:HO2'	33:BN:15:SER:N	1.96	0.61
18:B3:501:G:O4'	33:BN:16:ALA:HA	1.88	0.61
33:BN:106:LEU:HD23	33:BN:111:LEU:HD22	1.82	0.61
33:BN:123:LYS:H	33:BN:123:LYS:HD2	1.65	0.61
33:BN:27:ASN:HA	33:BN:30:GLU:CG	2.29	0.61
18:B3:1347:U:O2'	23:BD:241:ALA:O	2.17	0.61
23:BD:191:GLY:C	23:BD:197:ARG:HD2	2.21	0.61
47:B9:52:GLY:HA2	47:B9:54:TRP:HZ3	1.61	0.61
21:BB:62:PHE:HB2	21:BB:66:TYR:CD1	2.24	0.61
18:B3:1025:C:H5'	25:BF:104:LEU:O	2.00	0.61
1:AA:267:C:OP1	16:AQ:132:LYS:NZ	2.13	0.61
18:B3:953:G:C3'	36:BQ:13:TYR:CD2	2.69	0.61
18:B3:968:G:HO2'	28:BI:39:LYS:CG	1.89	0.61
22:BC:118:TYR:CA	22:BC:132:TYR:HD1	2.14	0.61
22:BC:229:THR:HG23	22:BC:246:ARG:CB	2.30	0.61
22:BC:241:THR:HG23	22:BC:247:LYS:NZ	2.15	0.61
22:BC:52:MET:HG3	22:BC:53:THR:H	1.65	0.61
22:BC:87:GLY:O	22:BC:159:VAL:HG23	2.00	0.61
18:B3:2501:G:N2	28:BI:157:TYR:CD1	2.69	0.61
28:BI:36:LEU:HD22	28:BI:73:ASN:CG	2.21	0.61
37:BR:95:PHE:C	38:BS:22:VAL:O	2.35	0.61
18:B3:434:U:C5'	31:BL:156:LYS:NZ	2.63	0.61
31:BL:65:VAL:HG23	31:BL:66:ARG:N	2.13	0.61
18:B3:1806:G:O4'	18:B3:2874:G:H1'	2.01	0.61
29:BJ:13:ILE:HD11	29:BJ:75:ALA:O	1.99	0.61
20:BA:60:ARG:HD3	20:BA:61:PRO:CD	2.30	0.61
20:BA:96:ASN:OD1	20:BA:99:LEU:HD23	2.00	0.61
10:AJ:78:THR:C	14:AN:39:ARG:HD3	2.21	0.61
14:AN:37:ILE:HB	14:AN:41:CYS:SG	2.40	0.61
3:AB:139:ASN:HB2	8:AH:69:ASN:CG	2.20	0.61
12:AL:84:THR:HG22	12:AL:120:VAL:HG12	1.83	0.61
1:AA:713:G:C2	11:AK:124:SER:CA	2.77	0.61
1:AA:677:U:C6	11:AK:121:PRO:HG2	2.34	0.61
18:B3:2460:A:C3'	46:BZ:60:LYS:HD2	1.84	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2459:G:OP2	46:BZ:86:ARG:CZ	2.46	0.61
1:AA:633:G:O2'	16:AQ:94:PRO:HB2	1.94	0.61
1:AA:1406:U:O4'	1:AA:1518:A:C5'	2.32	0.61
40:BU:39:LEU:HG	40:BU:39:LEU:O	1.99	0.61
40:BU:40:ARG:HG2	40:BU:41:ALA:N	2.14	0.61
1:AA:1344:C:H5'	9:AI:136:ARG:CB	2.30	0.61
41:BV:126:ALA:HA	41:BV:146:LEU:CD1	2.30	0.61
41:BV:77:LEU:HD12	41:BV:77:LEU:N	2.14	0.61
1:AA:238:G:C8	1:AA:240:C:OP2	2.51	0.61
11:AK:38:ILE:HG22	11:AK:70:CYS:SG	2.40	0.61
15:AO:85:GLU:HB3	15:AO:89:TYR:CZ	2.35	0.61
32:BM:95:LYS:CA	32:BM:98:LEU:HD23	2.30	0.61
18:B3:1716:A:H5'	35:BP:55:THR:HG21	1.81	0.61
42:B0:64:LYS:HG2	42:B0:65:PHE:CD1	2.35	0.61
18:B3:2316:G:OP1	18:B3:2316:G:C4'	2.47	0.61
21:BB:154:LYS:O	21:BB:154:LYS:HE3	2.00	0.61
26:BG:183:ALA:HA	26:BG:194:SER:OG	2.00	0.61
18:B3:702:G:O2'	18:B3:703:G:H5'	2.00	0.61
1:AA:1226:C:OP2	13:AM:131:LEU:CD2	2.48	0.61
1:AA:1220:G:O2'	17:AS:95:GLY:C	2.22	0.61
18:B3:537:G:N2	42:B0:25:TYR:OH	2.34	0.61
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.36	0.61
7:AG:107:LEU:CD2	7:AG:107:LEU:H	2.13	0.61
1:AA:1176:A:C4	9:AI:108:PHE:CG	2.83	0.61
9:AI:45:PHE:CE1	9:AI:47:VAL:HG21	2.35	0.61
10:AJ:56:VAL:HG13	10:AJ:58:LEU:HD23	1.82	0.61
33:BN:148:VAL:CG1	33:BN:149:VAL:HG22	2.19	0.61
33:BN:75:PHE:CE2	33:BN:77:VAL:HG13	2.36	0.61
42:B0:103:LYS:O	42:B0:107:VAL:HG22	1.99	0.61
23:BD:84:SER:CA	23:BD:97:ARG:HD3	2.30	0.61
47:B9:24:GLN:CG	47:B9:25:VAL:HG23	2.30	0.61
21:BB:241:ARG:HB3	21:BB:241:ARG:HH11	1.63	0.61
18:B3:487:G:C4'	40:BU:90:VAL:HB	2.30	0.61
18:B3:2502:C:C2'	18:B3:2503:A:H5'	2.30	0.61
18:B3:2762:C:H4'	37:BR:16:GLY:C	2.21	0.61
18:B3:2829:G:O2'	22:BC:127:LYS:NZ	1.95	0.61
22:BC:182:LEU:O	22:BC:182:LEU:HD22	2.00	0.61
22:BC:247:LYS:O	22:BC:247:LYS:HE2	2.00	0.61
22:BC:45:PHE:HE1	22:BC:81:PRO:CB	2.13	0.61
28:BI:35:ASP:HA	28:BI:88:ARG:NH1	2.15	0.61
18:B3:1714:C:O2'	18:B3:1715:C:H5'	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1787:C:O2	18:B3:2882:G:O3'	1.90	0.61
18:B3:1800:G:H4'	35:BP:88:LEU:N	2.15	0.61
18:B3:1597:A:H4'	35:BP:95:ILE:CG2	2.29	0.61
18:B3:922:A:O4'	41:BV:41:ARG:NE	2.19	0.61
29:BJ:16:LEU:N	29:BJ:16:LEU:HD13	2.15	0.61
20:BA:50:SER:HA	20:BA:154:THR:HG22	1.81	0.61
18:B3:2170:G:OP2	20:BA:26:ARG:HB3	1.99	0.61
39:BT:81:LEU:HD22	39:BT:82:VAL:N	2.15	0.61
1:AA:621:A:C8	5:AD:143:ILE:HG13	2.35	0.61
5:AD:99:LEU:HD23	5:AD:103:ASP:C	2.20	0.61
1:AA:11:G:O2'	1:AA:525:C:C2'	2.48	0.61
2:AT:110:ASP:O	2:AT:484:SER:N	2.33	0.61
2:AT:465:LYS:CB	2:AT:512:SER:O	2.39	0.61
2:AT:108:HIS:CE1	2:AT:540:ILE:CB	2.83	0.61
37:BR:66:LYS:HB2	37:BR:67:PRO:HD3	1.82	0.61
27:BH:31:ARG:HB2	27:BH:82:VAL:O	2.00	0.61
27:BH:64:HIS:O	32:BM:127:ARG:CA	2.48	0.61
43:BW:16:HIS:H	43:BW:19:LEU:HB2	1.65	0.61
18:B3:1131:G:O2'	18:B3:2522:G:O5'	2.18	0.61
40:BU:35:LEU:HD22	40:BU:45:ILE:O	2.01	0.61
1:AA:1349:A:OP1	9:AI:135:SER:CA	2.48	0.61
20:BA:183:ILE:O	20:BA:187:VAL:HG23	1.99	0.61
18:B3:270:U:OP1	18:B3:273:G:C2'	2.48	0.61
21:BB:38:GLY:CA	21:BB:90:GLY:HA3	2.28	0.61
1:AA:542:G:H4'	5:AD:47:PHE:CE2	2.35	0.61
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.35	0.61
18:B3:582:C:H2'	18:B3:583:G:H8	1.64	0.61
18:B3:613:C:H2'	18:B3:614:U:H6	1.64	0.61
20:BA:70:ASP:C	20:BA:74:VAL:HG23	2.21	0.61
17:AS:95:GLY:HA2	17:AS:103:ASN:O	2.01	0.61
1:AA:1318:A:O3'	17:AS:84:ILE:HB	2.00	0.61
18:B3:621:C:P	42:B0:40:SER:HB3	2.41	0.61
9:AI:8:THR:HG1	9:AI:86:LYS:HB3	1.66	0.61
19:B4:34:A:C4	24:BE:185:PHE:HD1	2.18	0.61
19:B4:49:G:H8	24:BE:158:ARG:CG	2.12	0.61
33:BN:66:ILE:CG1	33:BN:79:LYS:HD3	2.30	0.61
23:BD:197:ARG:HG2	23:BD:198:TRP:H	1.65	0.61
18:B3:677:C:H5''	23:BD:256:LYS:HE2	1.73	0.61
18:B3:52:A:C4	18:B3:121:U:O2'	2.53	0.61
18:B3:53:C:C5'	18:B3:121:U:C2'	2.77	0.61
46:BZ:48:GLY:O	46:BZ:49:PHE:HB3	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:50:GLY:O	46:BZ:53:THR:HG23	2.00	0.61
18:B3:1192:A:C2	30:BK:105:GLN:N	2.69	0.61
18:B3:1855:G:O6	21:BB:149:LEU:CB	2.34	0.61
21:BB:115:VAL:HG12	21:BB:162:ARG:NH1	2.14	0.61
18:B3:1287:A:N6	25:BF:201:LEU:CD1	2.64	0.61
18:B3:1733:A:C4	22:BC:225:PHE:CE1	2.84	0.61
18:B3:2820:A:H1'	22:BC:89:VAL:HB	1.80	0.61
22:BC:88:VAL:N	22:BC:198:PHE:HE1	1.98	0.61
18:B3:2820:A:H4'	22:BC:90:GLY:H	1.64	0.61
37:BR:15:LEU:HD13	37:BR:53:SER:CB	2.30	0.61
37:BR:79:VAL:HG12	37:BR:80:ARG:HG2	1.83	0.61
26:BG:111:GLU:HB2	26:BG:117:GLU:HB3	1.81	0.61
18:B3:263:U:H4'	26:BG:161:LEU:HD11	1.82	0.61
29:BJ:166:TYR:CE1	29:BJ:167:ASP:HB2	2.36	0.61
18:B3:1676:G:C8	39:BT:113:VAL:CG2	2.84	0.61
3:AB:67:PRO:HB2	3:AB:183:LEU:HD23	1.81	0.61
1:AA:449:C:C5'	5:AD:131:GLN:O	2.48	0.61
1:AA:364:A:OP1	12:AL:50:LYS:CG	2.43	0.61
12:AL:59:ILE:HD11	12:AL:117:ILE:CB	2.31	0.61
1:AA:67:C:C5	1:AA:70:G:O6	2.53	0.61
2:AT:27:HIS:CD2	18:B3:2698:G:OP1	2.52	0.61
18:B3:2560:C:C5'	27:BH:168:ARG:HG3	2.30	0.61
1:AA:679:C:C2	11:AK:125:THR:OG1	2.54	0.61
1:AA:1070:U:C3'	6:AE:90:ARG:CB	2.79	0.61
1:AA:633:G:O2'	16:AQ:94:PRO:CA	2.47	0.61
40:BU:57:LEU:HD11	40:BU:105:VAL:HG23	1.80	0.61
40:BU:81:GLN:HG2	40:BU:82:VAL:N	2.13	0.61
18:B3:906:C:N3	18:B3:1328:A:C6	2.65	0.61
1:AA:405:U:C5'	5:AD:37:LYS:HE3	2.29	0.61
41:BV:137:ILE:HG22	41:BV:138:ARG:N	2.15	0.61
18:B3:499:G:C3'	33:BN:19:SER:OG	2.48	0.61
21:BB:31:LEU:CD2	21:BB:36:ARG:HB3	2.30	0.61
18:B3:283:U:C5	18:B3:284:C:N4	2.68	0.61
36:BQ:11:THR:CG2	36:BQ:12:ARG:H	2.11	0.61
5:AD:74:ASN:HD21	5:AD:79:ARG:CB	2.13	0.61
4:AC:94:GLY:HA3	4:AC:124:TYR:CE2	2.31	0.61
18:B3:1149:U:O2'	18:B3:1150:A:OP2	2.15	0.61
1:AA:1003(A):G:C2	1:AA:1004:A:H1'	2.36	0.61
25:BF:190:VAL:HG12	25:BF:191:GLY:H	1.65	0.61
18:B3:1474:C:H6	18:B3:1474:C:H5'	1.65	0.61
1:AA:1219:U:O2'	17:AS:59:LYS:HA	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:26:ILE:HA	13:AM:57:ARG:HH11	1.65	0.61
1:AA:1176:A:N9	9:AI:108:PHE:CD1	2.55	0.61
10:AJ:23:ARG:HB2	10:AJ:117:VAL:HG11	1.83	0.61
19:B4:49:G:N9	24:BE:94:ASN:CA	2.28	0.61
24:BE:111:GLN:H	24:BE:115:LEU:HG	1.66	0.61
18:B3:1370:G:C8	33:BN:62:PHE:CZ	2.67	0.61
18:B3:1352:A:P	23:BD:108:TRP:NE1	2.67	0.61
23:BD:140:ARG:HH22	23:BD:178:LEU:HD13	1.65	0.61
18:B3:1342:C:N4	23:BD:186:LEU:CB	2.63	0.61
18:B3:773:A:HO2'	45:BY:48:TRP:HZ3	1.44	0.61
18:B3:1184:A:C1'	30:BK:86:LYS:HG3	2.23	0.61
21:BB:127:ARG:NH2	21:BB:128:ALA:HB3	2.15	0.61
21:BB:5:ARG:C	21:BB:8:ARG:HH21	2.03	0.61
41:BV:62:LYS:HA	41:BV:66:HIS:ND1	2.16	0.61
25:BF:178:LEU:HB2	25:BF:180:ILE:CD1	2.30	0.61
19:B4:86:G:O3'	25:BF:219:PHE:CE2	2.53	0.61
18:B3:953:G:C5'	36:BQ:13:TYR:CE2	2.78	0.61
1:AA:538:G:H1'	12:AL:140:LYS:NZ	2.16	0.61
18:B3:2826:G:C1'	22:BC:124:SER:HB2	2.30	0.61
22:BC:180:ILE:HD12	22:BC:180:ILE:O	2.01	0.61
26:BG:109:THR:HA	26:BG:118:GLY:CA	2.30	0.61
26:BG:129:TYR:O	26:BG:202:VAL:HB	2.01	0.61
18:B3:1808:C:H6	18:B3:2885:A:P	2.24	0.61
29:BJ:96:SER:HB2	29:BJ:101:PHE:CE2	2.35	0.61
18:B3:1673:U:C5'	39:BT:109:VAL:O	2.49	0.61
4:AC:39:ARG:HB3	4:AC:46:GLU:CG	2.28	0.61
3:AB:59:ALA:HA	3:AB:157:VAL:HG11	1.82	0.61
18:B3:1745:G:P	37:BR:22:ILE:CG1	2.89	0.61
41:BV:31:ARG:NE	41:BV:31:ARG:HA	2.15	0.61
18:B3:2578:G:O3'	18:B3:2680:A:C5'	2.42	0.61
27:BH:26:LYS:HE3	27:BH:26:LYS:N	2.11	0.61
27:BH:64:HIS:O	32:BM:127:ARG:HA	2.00	0.61
1:AA:216:G:H2'	1:AA:217:C:C6	2.36	0.61
43:BW:39:ALA:O	43:BW:40:LYS:HG3	2.00	0.61
1:AA:924:C:H1'	1:AA:1398:A:C2'	2.27	0.61
11:AK:71:ARG:HA	11:AK:75:ILE:HG22	1.82	0.61
3:AB:40:ARG:HB3	3:AB:41:PRO:HD2	1.82	0.61
15:AO:88:TYR:O	15:AO:91:ILE:HG12	1.99	0.61
4:AC:108:LEU:HD13	4:AC:114:ILE:HD13	1.83	0.61
7:AG:85:GLN:O	7:AG:89:ILE:HA	2.00	0.61
42:B0:64:LYS:H	42:B0:64:LYS:CD	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:75:VAL:HG23	16:AQ:84:VAL:CG1	2.31	0.61
20:BA:5:THR:HG22	20:BA:8:GLN:CG	2.30	0.61
1:AA:1091:U:O2	1:AA:1093:A:C8	2.54	0.61
2:AT:292:LYS:HD3	2:AT:295:GLU:OE2	2.00	0.61
1:AA:1248:A:HO2'	9:AI:73:HIS:CE1	2.17	0.61
1:AA:1290:G:H4'	7:AG:107:LEU:HD11	1.82	0.61
1:AA:1176:A:H2'	9:AI:107:ALA:CA	2.29	0.61
1:AA:1148:U:H4'	9:AI:16:THR:HG21	1.82	0.61
9:AI:34:PRO:HD2	9:AI:37:LEU:CD2	2.31	0.61
9:AI:58:LYS:NZ	9:AI:62:ILE:HG21	2.15	0.61
9:AI:50:PRO:HG2	9:AI:84:ILE:HG23	1.83	0.61
19:B4:46:C:H5'	24:BE:152:ARG:NH2	2.02	0.61
24:BE:18:THR:HG21	24:BE:20:PHE:CE2	2.36	0.61
19:B4:119:C:H1'	24:BE:71:GLY:O	1.95	0.61
24:BE:81:HIS:HA	24:BE:92:LEU:HD11	1.81	0.61
1:AA:319:G:H1'	1:AA:1434:A:N6	2.16	0.61
18:B3:1316:G:OP1	42:B0:101:SER:C	2.39	0.61
23:BD:205:LEU:HG	23:BD:206:VAL:N	2.16	0.61
18:B3:1861:C:O2'	21:BB:7:GLN:C	2.39	0.61
21:BB:106:VAL:HG22	21:BB:110:THR:HG21	1.81	0.61
18:B3:1743:G:N2	37:BR:18:PRO:CG	2.63	0.61
18:B3:2819:C:N3	22:BC:100:SER:CB	2.50	0.61
22:BC:279:HIS:HB3	22:BC:323:VAL:CG2	2.31	0.61
22:BC:91:TYR:CB	22:BC:99:ARG:HH21	2.14	0.61
28:BI:125:LEU:HD12	28:BI:125:LEU:N	2.15	0.61
18:B3:2520:G:C4'	28:BI:160:PRO:HA	2.22	0.61
28:BI:51:HIS:HB2	28:BI:52:LEU:CD1	2.24	0.61
5:AD:127:VAL:HA	5:AD:130:THR:HG22	1.82	0.61
5:AD:100:LYS:HG3	5:AD:195:ASP:HB2	1.83	0.61
12:AL:117:ILE:HG13	12:AL:120:VAL:HG21	1.81	0.61
18:B3:1381:A:H8	43:BW:25:LYS:NZ	1.97	0.61
46:BZ:9:THR:O	46:BZ:19:HIS:HB3	2.01	0.61
18:B3:2460:A:C4'	46:BZ:60:LYS:HD3	2.30	0.61
1:AA:1496:C:O2	1:AA:1518:A:C8	2.54	0.61
40:BU:33:ALA:O	40:BU:47:ALA:HB1	2.01	0.61
40:BU:35:LEU:HD23	40:BU:39:LEU:HG	1.81	0.61
40:BU:48:LEU:HB3	40:BU:49:PRO:HD2	1.82	0.61
18:B3:1153:C:P	18:B3:1155:G:C8	2.93	0.61
45:BY:41:ALA:C	45:BY:42:LYS:HG3	2.19	0.61
1:AA:754:C:O5'	15:AO:127:TYR:HE1	1.83	0.61
1:AA:706:A:H4'	11:AK:21:SER:OG	1.98	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1349:A:OP1	9:AI:135:SER:HB3	2.00	0.61
1:AA:562:C:C6	12:AL:33:LEU:HD22	2.34	0.61
4:AC:159:SER:HB2	4:AC:167:ILE:HG13	1.81	0.61
1:AA:1220:G:H8	17:AS:78:THR:OG1	1.51	0.61
13:AM:88:ARG:HH22	13:AM:115:ARG:NH1	1.95	0.61
1:AA:1321:C:C1'	17:AS:120:SER:H	2.07	0.61
18:B3:629:A:C5'	42:B0:39:ASP:O	2.45	0.61
1:AA:1290:G:C5'	7:AG:108:LYS:NZ	2.64	0.61
24:BE:112:ARG:HD2	24:BE:113:LEU:N	2.14	0.61
19:B4:11:A:H8	24:BE:17:GLN:HA	1.66	0.61
18:B3:2369:A:OP1	24:BE:31:TYR:CZ	2.51	0.61
24:BE:43:LYS:HD3	24:BE:44:TYR:CE1	2.35	0.61
33:BN:40:LEU:HD12	33:BN:40:LEU:O	2.00	0.61
42:B0:103:LYS:HD3	42:B0:103:LYS:N	2.15	0.61
18:B3:1312:G:N7	23:BD:185:LYS:NZ	2.48	0.61
18:B3:449:A:OP1	23:BD:45:LYS:HB3	2.00	0.61
18:B3:721:A:H5''	34:BO:71:LEU:CA	2.31	0.61
18:B3:657:G:C2'	23:BD:119:TYR:CE2	2.80	0.61
23:BD:133:LEU:CD2	23:BD:243:LEU:HG	2.29	0.61
34:BO:123:THR:HG22	34:BO:126:GLN:HB2	1.83	0.61
34:BO:32:LEU:HD13	34:BO:32:LEU:O	2.01	0.61
45:BY:29:GLN:HG2	45:BY:29:GLN:O	2.00	0.61
30:BK:85:LEU:HD23	30:BK:87:GLU:HB2	1.82	0.61
18:B3:1848:G:P	21:BB:178:LEU:HD23	2.40	0.61
47:B9:40:PHE:O	47:B9:41:CYS:HB3	2.01	0.61
47:B9:47:LYS:HE3	47:B9:48:ARG:H	1.66	0.61
18:B3:1861:C:O3'	21:BB:7:GLN:HA	2.01	0.61
25:BF:169:GLU:HB2	25:BF:171:ASN:O	2.00	0.61
18:B3:2762:C:O3'	37:BR:16:GLY:CA	2.47	0.61
22:BC:169:PRO:HB2	22:BC:313:TYR:CB	2.30	0.61
22:BC:32:PRO:HG3	22:BC:43:THR:HG21	1.83	0.61
26:BG:151:LEU:CD2	26:BG:185:LEU:HB2	2.31	0.61
35:BP:92:VAL:HG23	35:BP:93:VAL:N	2.15	0.61
35:BP:94:TRP:CE2	35:BP:95:ILE:HG23	2.35	0.61
18:B3:1675:C:C5	39:BT:112:LEU:CA	2.84	0.61
39:BT:75:VAL:HB	39:BT:131:ALA:CB	2.29	0.61
10:AJ:79:TRP:O	10:AJ:80:GLU:HB2	2.01	0.61
8:AH:18:LYS:O	8:AH:18:LYS:HD3	2.01	0.61
12:AL:102:VAL:HG22	12:AL:103:LEU:N	2.16	0.61
37:BR:76:ALA:CB	37:BR:102:ILE:HA	2.30	0.61
18:B3:1120:U:H5'	18:B3:1121:G:OP2	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:14:LEU:HB2	32:BM:121:GLN:CD	2.21	0.61
32:BM:55:ASP:OD2	32:BM:143:SER:HB2	2.01	0.61
1:AA:1499:A:C5	1:AA:1519:A:H2'	2.35	0.61
40:BU:23:PRO:CD	40:BU:26:GLN:HE21	2.13	0.61
1:AA:292:G:N2	1:AA:608:A:H2	1.87	0.61
5:AD:34:PHE:CZ	5:AD:67:PRO:HB3	2.35	0.61
18:B3:2320:U:C4	46:BZ:4:PRO:CB	2.75	0.61
11:AK:78:VAL:HG21	11:AK:109:LEU:HD13	1.82	0.61
18:B3:2396:C:O2	41:BV:46:LYS:CD	2.45	0.61
18:B3:2273:C:OP1	21:BB:1:GLY:CA	2.48	0.61
22:BC:350:LEU:HD22	22:BC:350:LEU:N	2.16	0.61
18:B3:283:U:H3'	18:B3:284:C:C5	2.35	0.61
1:AA:107:G:C8	1:AA:378:G:O2'	2.53	0.61
25:BF:230:ASN:O	25:BF:231:ARG:HG3	2.00	0.61
26:BG:183:ALA:O	26:BG:187:THR:HG23	2.01	0.61
2:AT:545:LEU:HA	2:AT:549:HIS:HB2	1.82	0.61
21:BB:40:ILE:HD12	21:BB:40:ILE:N	2.16	0.61
18:B3:1377:C:H5'	18:B3:1377:C:H6	1.66	0.61
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.16	0.61
1:AA:987:G:C5	1:AA:1014:A:N3	2.69	0.61
1:AA:1177:G:O6	9:AI:108:PHE:O	2.19	0.61
19:B4:117:G:C2	24:BE:70:THR:HA	2.35	0.61
19:B4:11:A:N1	24:BE:12:TYR:HB3	2.11	0.61
24:BE:110:LEU:CD2	24:BE:171:LEU:H	2.02	0.61
24:BE:64:ILE:CG2	24:BE:109:THR:HG21	2.31	0.61
18:B3:721:A:P	34:BO:71:LEU:CB	2.88	0.61
23:BD:197:ARG:O	23:BD:198:TRP:HD1	1.84	0.61
23:BD:210:GLU:HG3	23:BD:211:ASP:N	2.13	0.61
18:B3:1358:A:C4	23:BD:92:MET:HG3	2.36	0.61
18:B3:1183:C:O4'	30:BK:104:ILE:HA	2.01	0.61
18:B3:1164:U:C6	30:BK:51:LYS:N	2.69	0.61
18:B3:1869:A:N3	21:BB:10:GLY:HA2	2.15	0.61
18:B3:815:U:O3'	18:B3:816:G:C5'	2.41	0.61
21:BB:138:HIS:CD2	21:BB:145:THR:HA	2.34	0.61
21:BB:29:ARG:CZ	21:BB:29:ARG:H	2.13	0.61
21:BB:42:GLY:O	21:BB:87:ILE:HG22	2.00	0.61
18:B3:2526:C:H1'	18:B3:2604:A:O3'	2.01	0.61
44:BX:24:LEU:O	44:BX:25:LYS:HB2	2.00	0.61
44:BX:17:LEU:HD21	44:BX:54:VAL:HG22	1.83	0.61
18:B3:2501:G:N1	28:BI:157:TYR:HE1	1.98	0.61
22:BC:17:PRO:HG3	22:BC:19:LYS:HD2	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:75:VAL:HG13	22:BC:76:THR:N	2.14	0.61
28:BI:145:LYS:O	28:BI:145:LYS:HD3	2.00	0.61
26:BG:115:VAL:HG11	26:BG:213:LEU:HB3	1.81	0.61
18:B3:251:C:O4'	31:BL:139:LYS:NZ	1.94	0.61
18:B3:1816:C:N1	18:B3:2746:A:C2	2.69	0.61
18:B3:1815:A:C2'	18:B3:2746:A:C8	2.60	0.61
1:AA:1202:G:N1	10:AJ:74:GLU:HG3	2.10	0.61
10:AJ:80:GLU:CD	14:AN:43:ARG:HH11	2.03	0.61
1:AA:560:U:C2'	1:AA:563:A:O4'	2.47	0.61
3:AB:136:SER:O	8:AH:70:LYS:HA	2.01	0.61
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.01	0.61
27:BH:13:PRO:HD3	27:BH:79:ILE:HG23	1.81	0.61
18:B3:2780:C:H5''	27:BH:162:GLN:CD	2.20	0.61
27:BH:90:MET:HB3	27:BH:180:TYR:O	2.01	0.61
27:BH:52:LEU:HG	27:BH:53:ILE:N	2.14	0.61
11:AK:125:THR:HG22	11:AK:126:ARG:N	2.15	0.61
18:B3:215:A:C3'	41:BV:58:ARG:CD	2.77	0.61
1:AA:1068:G:H5'	1:AA:1388:C:H5''	1.83	0.61
35:BP:41:ARG:CA	35:BP:44:VAL:HG12	2.31	0.61
43:BW:58:ILE:HG13	43:BW:59:TRP:NE1	2.14	0.61
1:AA:1117:G:H5'	1:AA:1117:G:H8	1.65	0.61
1:AA:404:U:C1'	5:AD:21:SER:O	2.44	0.61
41:BV:104:LEU:HB3	41:BV:108:TYR:OH	2.00	0.61
1:AA:947:G:C5'	13:AM:143:ARG:HH22	1.79	0.61
1:AA:754:C:H6	15:AO:127:TYR:CE2	2.14	0.61
18:B3:2370:A:N6	36:BQ:49:GLN:HE22	1.74	0.61
18:B3:2504:A:H2'	18:B3:2505:G:O4'	2.01	0.61
36:BQ:39:ILE:CD1	36:BQ:39:ILE:H	2.14	0.61
30:BK:22:VAL:HG22	30:BK:23:GLY:N	2.16	0.61
18:B3:2205:G:C5	18:B3:2206:C:C5	2.88	0.61
26:BG:182:LYS:HG2	26:BG:194:SER:CB	2.30	0.61
18:B3:2039:A:H4'	18:B3:2760:C:H4'	1.83	0.61
1:AA:1321:C:C4'	17:AS:118:GLU:HA	2.29	0.61
42:B0:35:GLN:HG2	42:B0:43:ARG:CA	2.31	0.61
18:B3:621:C:P	42:B0:40:SER:HG	2.24	0.61
19:B4:50:G:O5'	24:BE:94:ASN:N	2.33	0.61
24:BE:64:ILE:HG23	24:BE:75:LEU:HD21	1.81	0.61
42:B0:77:ALA:O	42:B0:78:ASN:HB2	2.01	0.61
23:BD:48:ALA:HB1	23:BD:104:THR:OG1	2.00	0.61
23:BD:159:GLN:HG3	23:BD:160:LYS:HG3	1.82	0.61
18:B3:1306:U:H5	23:BD:194:ARG:CZ	2.13	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1184:A:C4'	30:BK:85:LEU:O	2.47	0.61
18:B3:1653:A:N9	21:BB:186:HIS:HD2	1.98	0.61
25:BF:119:THR:HG23	25:BF:120:LYS:O	2.01	0.61
18:B3:945:U:O4'	25:BF:125:LEU:HD21	1.99	0.61
25:BF:129:ILE:O	25:BF:129:ILE:HG13	2.00	0.61
25:BF:150:ARG:HG3	25:BF:205:LYS:O	2.01	0.61
18:B3:107:U:H5''	44:BX:58:ILE:O	2.00	0.61
22:BC:104:VAL:HG21	22:BC:198:PHE:HE1	1.64	0.61
22:BC:115:ARG:CG	22:BC:173:LYS:HD2	2.31	0.61
22:BC:331:ARG:HB2	22:BC:332:LYS:CE	2.31	0.61
22:BC:98:LEU:HD22	22:BC:98:LEU:N	2.16	0.61
28:BI:106:ALA:H	28:BI:111:LEU:HB3	1.66	0.61
26:BG:108:LEU:N	26:BG:108:LEU:HD22	2.14	0.61
31:BL:161:ARG:HD3	31:BL:169:LYS:CG	2.31	0.61
18:B3:1805:G:N2	18:B3:2883:A:C8	2.68	0.61
29:BJ:83:LEU:HD11	29:BJ:90:LEU:HD11	1.82	0.61
18:B3:1507:C:C4'	39:BT:74:LYS:HD2	2.27	0.61
8:AH:27:ARG:CG	8:AH:28:PRO:HD2	2.28	0.61
1:AA:25:C:O4'	12:AL:109:ARG:NH1	2.33	0.61
1:AA:67:C:OP1	1:AA:172:A:O2'	2.18	0.61
2:AT:536:LEU:CD2	18:B3:2698:G:H4'	2.31	0.61
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.16	0.61
18:B3:2576:A:H2	18:B3:2800:A:N6	1.98	0.61
18:B3:1116:U:C3'	18:B3:1226:G:C8	2.84	0.61
27:BH:129:ARG:HG3	27:BH:153:ASP:CA	2.31	0.61
27:BH:65:VAL:H	32:BM:129:LYS:HB2	1.65	0.61
32:BM:17:ARG:HD2	32:BM:121:GLN:NE2	2.15	0.61
32:BM:53:TYR:O	32:BM:60:ALA:HB2	2.01	0.61
1:AA:920:U:H4'	1:AA:1080:A:H2'	0.62	0.61
35:BP:42:LYS:N	35:BP:44:VAL:HG12	2.15	0.61
46:BZ:68:VAL:HG13	46:BZ:69:LEU:N	2.12	0.61
40:BU:45:ILE:HD12	40:BU:47:ALA:O	2.00	0.61
40:BU:58:VAL:HG12	40:BU:66:GLN:H	1.66	0.61
1:AA:436:C:H2'	1:AA:496:A:H2'	1.82	0.61
1:AA:1484:C:H2'	1:AA:1485:U:H6	1.65	0.61
18:B3:399:C:OP1	31:BL:180:ASN:HB3	1.90	0.61
40:BU:13:ARG:O	40:BU:17:LYS:HG2	2.01	0.61
11:AK:56:PRO:HG3	11:AK:92:THR:CG2	2.29	0.61
1:AA:243:A:H4'	1:AA:244:U:C5'	2.21	0.61
20:BA:124:LEU:HD12	20:BA:124:LEU:N	2.16	0.61
4:AC:51:ALA:O	4:AC:90:VAL:HG23	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:167:LYS:O	22:BC:167:LYS:HG3	2.01	0.61
18:B3:2591:C:H2'	18:B3:2592:G:O4'	1.99	0.61
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.83	0.61
18:B3:625:U:H5''	18:B3:1044:C:N4	2.15	0.61
13:AM:28:ILE:HG22	13:AM:54:LEU:O	2.01	0.60
1:AA:1296:C:O2'	13:AM:54:LEU:CD1	2.49	0.60
1:AA:1317:C:H2'	17:AS:55:GLY:N	2.14	0.60
1:AA:1177:G:C6	9:AI:108:PHE:O	2.54	0.60
24:BE:111:GLN:N	24:BE:115:LEU:HB2	2.14	0.60
18:B3:1011:C:OP1	24:BE:15:ARG:NH2	2.34	0.60
36:BQ:75:ILE:CB	36:BQ:89:LEU:HA	2.25	0.60
33:BN:109:THR:HG22	33:BN:110:LYS:N	2.15	0.60
33:BN:30:GLU:OE2	33:BN:57:ILE:HD12	2.01	0.60
33:BN:81:ARG:N	33:BN:81:ARG:HH11	1.97	0.60
18:B3:452:G:N7	23:BD:193:TYR:HB2	2.15	0.60
47:B9:32:GLN:HG2	47:B9:68:TYR:CA	2.31	0.60
1:AA:130:A:H3'	16:AQ:127:CYS:SG	2.40	0.60
18:B3:953:G:H2'	36:BQ:13:TYR:CE1	2.36	0.60
18:B3:1133:A:C2	18:B3:2501:G:N3	2.68	0.60
18:B3:2817:G:O2'	22:BC:96:ARG:HB3	2.00	0.60
22:BC:121:TRP:CZ3	22:BC:123:LYS:HD3	2.36	0.60
22:BC:85:VAL:HG11	22:BC:159:VAL:HG11	1.83	0.60
22:BC:239:ARG:H	22:BC:239:ARG:HD3	1.65	0.60
22:BC:280:LYS:H	22:BC:324:LYS:HE2	1.65	0.60
22:BC:358:ILE:N	38:BS:15:PRO:HB3	2.06	0.60
28:BI:43:VAL:O	28:BI:46:PHE:HD2	1.84	0.60
28:BI:51:HIS:CE1	28:BI:149:VAL:HA	2.35	0.60
37:BR:11:PHE:HB3	37:BR:86:ARG:HG3	1.81	0.60
26:BG:115:VAL:CG2	26:BG:213:LEU:HB2	2.26	0.60
18:B3:1812:G:H1'	18:B3:2733:U:P	2.41	0.60
18:B3:2737:C:H5''	35:BP:59:LYS:H	1.60	0.60
35:BP:99:ARG:HH11	35:BP:99:ARG:HG2	1.65	0.60
18:B3:898:G:C5'	41:BV:25:ARG:HD2	2.31	0.60
18:B3:2348:C:C4'	29:BJ:17:VAL:HB	2.29	0.60
29:BJ:32:ALA:N	29:BJ:34:LYS:HD2	2.16	0.60
20:BA:108:ASN:OD1	20:BA:162:VAL:CA	2.47	0.60
12:AL:93:LEU:H	12:AL:93:LEU:HD22	1.66	0.60
18:B3:1745:G:P	37:BR:22:ILE:CB	2.68	0.60
18:B3:2561:C:H5''	18:B3:2777:G:O3'	1.99	0.60
27:BH:20:ILE:CG1	27:BH:25:VAL:HA	2.31	0.60
35:BP:17:GLY:H	35:BP:20:LYS:HZ3	1.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:59:TRP:HZ3	43:BW:65:GLY:O	1.83	0.60
46:BZ:66:LYS:HG3	46:BZ:86:ARG:CZ	2.20	0.60
1:AA:436:C:H4'	1:AA:496:A:OP1	1.99	0.60
5:AD:55:ALA:HB2	5:AD:59:LEU:HD23	1.82	0.60
41:BV:81:ILE:HG23	41:BV:82:PRO:CA	2.31	0.60
1:AA:579:G:O3'	15:AO:112:PHE:CZ	2.53	0.60
15:AO:77:ASN:OD1	15:AO:88:TYR:HB2	2.01	0.60
1:AA:751:U:HO2'	15:AO:83:ILE:HD11	1.64	0.60
23:BD:155:LEU:HD23	23:BD:158:ILE:HD12	1.82	0.60
20:BA:100:ILE:HG21	20:BA:127:GLN:HG3	1.83	0.60
18:B3:938:G:HO2'	18:B3:939:A:H8	1.48	0.60
1:AA:990:C:H6	1:AA:1017:G:O4'	1.84	0.60
1:AA:1320:C:C2	17:AS:119:PHE:CD1	2.73	0.60
29:BJ:82:GLY:O	29:BJ:85:VAL:HG13	2.01	0.60
1:AA:1257:U:H4'	1:AA:1258:G:O5'	2.01	0.60
9:AI:100:SER:O	9:AI:116:LEU:HD22	2.00	0.60
19:B4:10:C:N4	36:BQ:26:HIS:HE1	1.94	0.60
19:B4:6:C:OP2	24:BE:27:LYS:NZ	2.31	0.60
24:BE:99:TYR:CE1	24:BE:161:GLY:HA3	2.36	0.60
19:B4:49:G:P	24:BE:99:TYR:HH	2.24	0.60
18:B3:517:U:C1'	18:B3:1339:G:O2'	2.44	0.60
18:B3:709:G:O3'	34:BO:44:PHE:CE2	2.54	0.60
18:B3:719:C:O2'	34:BO:74:GLU:N	2.34	0.60
23:BD:232:LEU:HB2	23:BD:256:LYS:NZ	2.15	0.60
34:BO:89:ASP:N	34:BO:110:ALA:HB2	2.16	0.60
34:BO:72:LYS:CB	34:BO:74:GLU:HG3	2.31	0.60
34:BO:93:ILE:CD1	34:BO:117:ALA:HB3	2.29	0.60
18:B3:766:A:OP1	23:BD:74:PRO:CA	2.31	0.60
31:BL:82:LYS:N	31:BL:83:PRO:HA	2.16	0.60
21:BB:56:PRO:HD2	47:B9:51:ALA:CB	2.20	0.60
18:B3:1848:G:OP1	21:BB:178:LEU:HB3	2.01	0.60
18:B3:487:G:H3'	40:BU:90:VAL:HG11	0.61	0.60
18:B3:1741:U:H5'	18:B3:1742:A:OP1	2.01	0.60
18:B3:2310:G:O2'	28:BI:119:TRP:CZ2	2.55	0.60
22:BC:217:ILE:HD13	22:BC:337:LEU:O	2.01	0.60
37:BR:94:TYR:CE1	38:BS:21:PHE:CD2	2.83	0.60
7:AG:109:ALA:O	7:AG:113:ILE:HD13	2.01	0.60
39:BT:107:LEU:HB3	39:BT:124:ARG:NH2	2.16	0.60
14:AN:23:CYS:CB	14:AN:37:ILE:HA	2.24	0.60
6:AE:214:PHE:HZ	8:AH:70:LYS:HD3	1.66	0.60
18:B3:2559:C:O4'	18:B3:2799:A:H4'	2.00	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:146:LEU:HD22	27:BH:146:LEU:N	2.16	0.60
27:BH:61:GLY:N	27:BH:63:LYS:HE3	2.16	0.60
27:BH:64:HIS:CE1	27:BH:68:LEU:HD21	2.36	0.60
32:BM:11:LYS:CA	32:BM:36:ARG:HD2	2.30	0.60
32:BM:35:VAL:HG12	32:BM:36:ARG:N	2.16	0.60
18:B3:1401:G:H5'	43:BW:59:TRP:CB	2.26	0.60
35:BP:23:LEU:CD2	35:BP:24:ASP:H	2.13	0.60
41:BV:117:ILE:HG22	41:BV:118:PRO:CA	2.20	0.60
1:AA:688:G:O3'	11:AK:49:ALA:HB1	2.01	0.60
15:AO:90:LEU:HD23	15:AO:121:ILE:CG1	2.31	0.60
6:AE:96:ARG:HE	6:AE:116:THR:HG21	1.65	0.60
18:B3:1528:A:H2'	18:B3:1529:G:O4'	2.01	0.60
4:AC:159:SER:CB	4:AC:167:ILE:HD11	2.31	0.60
40:BU:89:LYS:H	40:BU:89:LYS:CE	2.13	0.60
1:AA:1302:U:OP1	13:AM:54:LEU:CB	2.49	0.60
1:AA:978:A:C2'	17:AS:82:ASN:HB2	2.30	0.60
1:AA:1321:C:H5'	13:AM:122:HIS:NE2	2.16	0.60
17:AS:121:ILE:N	17:AS:121:ILE:HD12	2.16	0.60
42:B0:19:ARG:HG3	42:B0:33:ARG:NH1	2.16	0.60
9:AI:116:LEU:O	9:AI:116:LEU:HG	2.00	0.60
19:B4:117:G:N3	24:BE:70:THR:HA	2.16	0.60
24:BE:83:LEU:N	24:BE:83:LEU:HD22	2.16	0.60
36:BQ:48:ILE:HB	36:BQ:94:GLU:CD	2.22	0.60
18:B3:2087:C:C4'	33:BN:78:THR:CB	2.48	0.60
42:B0:101:SER:HB2	42:B0:105:ARG:CB	2.32	0.60
18:B3:1311:G:O6	23:BD:185:LYS:CB	2.49	0.60
18:B3:891:G:O4'	45:BY:49:GLY:N	2.34	0.60
45:BY:24:ARG:CG	45:BY:25:SER:H	2.12	0.60
18:B3:1167:G:H1'	30:BK:111:GLU:H	1.66	0.60
30:BK:78:SER:O	30:BK:82:ILE:HG13	2.02	0.60
18:B3:784:A:H5'	21:BB:20:ARG:HH11	1.65	0.60
21:BB:179:LEU:HB3	47:B9:20:SER:HB3	0.62	0.60
21:BB:106:VAL:HG13	21:BB:135:ILE:HD13	1.82	0.60
21:BB:180:LYS:N	21:BB:180:LYS:HD3	2.16	0.60
18:B3:968:G:O2'	18:B3:969:G:H5'	2.00	0.60
18:B3:2913:A:H61	22:BC:123:LYS:HE2	1.66	0.60
22:BC:311:VAL:HG12	22:BC:312:HIS:N	2.10	0.60
22:BC:327:ILE:HG22	22:BC:329:GLY:N	2.17	0.60
28:BI:38:LYS:HB3	28:BI:38:LYS:NZ	2.16	0.60
28:BI:57:LEU:N	28:BI:57:LEU:HD22	2.16	0.60
28:BI:30:LYS:O	28:BI:66:GLU:HB2	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:98:ARG:H	28:BI:98:ARG:HD3	1.66	0.60
26:BG:125:SER:H	26:BG:128:PRO:HD2	1.65	0.60
26:BG:135:LEU:HD13	26:BG:135:LEU:O	2.01	0.60
26:BG:130:ALA:CB	26:BG:202:VAL:HB	2.30	0.60
26:BG:130:ALA:HB1	26:BG:202:VAL:H	1.64	0.60
31:BL:100:THR:HA	31:BL:103:GLU:OE2	2.02	0.60
31:BL:109:ALA:HB1	31:BL:112:LEU:CD1	2.32	0.60
31:BL:165:ALA:O	31:BL:166:THR:HG23	2.01	0.60
31:BL:8:GLU:HG3	31:BL:9:LEU:N	2.16	0.60
20:BA:12:HIS:ND1	20:BA:206:VAL:HG13	2.16	0.60
18:B3:1507:C:C4'	39:BT:74:LYS:CD	2.78	0.60
1:AA:400:C:C2'	1:AA:622:A:H4'	2.32	0.60
5:AD:150:LEU:HG	5:AD:189:ASP:HA	1.82	0.60
5:AD:99:LEU:HD23	5:AD:104:PHE:H	1.63	0.60
12:AL:105:ALA:HB3	12:AL:107:PHE:HB2	1.83	0.60
18:B3:2561:C:H5'	18:B3:2777:G:C2'	2.30	0.60
27:BH:129:ARG:HD2	27:BH:156:GLN:NE2	2.17	0.60
27:BH:18:VAL:O	27:BH:26:LYS:HG3	2.01	0.60
27:BH:78:MET:SD	27:BH:79:ILE:HG13	2.41	0.60
43:BW:55:ASN:HD21	43:BW:56:GLN:NE2	1.99	0.60
1:AA:1345:U:O4	7:AG:76:TYR:HA	2.02	0.60
40:BU:53:ASP:HB3	40:BU:110:HIS:CB	2.31	0.60
41:BV:111:ILE:HD13	41:BV:111:ILE:N	2.16	0.60
11:AK:12:VAL:HG22	11:AK:76:THR:HB	1.82	0.60
43:BW:76:ARG:HA	43:BW:82:GLU:HG3	1.83	0.60
20:BA:179:LEU:HD13	20:BA:183:ILE:HG13	1.83	0.60
6:AE:140:ARG:HG2	6:AE:141:GLY:N	2.11	0.60
7:AG:138:ASN:CG	7:AG:202:LYS:HB2	2.21	0.60
24:BE:219:PHE:HE1	24:BE:222:LEU:HB2	1.63	0.60
3:AB:17:LEU:N	3:AB:17:LEU:HD22	2.15	0.60
29:BJ:89:GLN:HG2	29:BJ:89:GLN:O	2.02	0.60
9:AI:36:THR:HA	9:AI:39:GLU:CG	2.31	0.60
19:B4:38:A:P	24:BE:155:THR:CG2	2.75	0.60
18:B3:2050:G:O5'	33:BN:82:TRP:HE3	1.84	0.60
23:BD:131:ALA:O	23:BD:134:VAL:HB	2.02	0.60
18:B3:1343:C:O2	23:BD:188:ALA:CA	2.50	0.60
34:BO:42:ALA:CB	34:BO:134:GLY:HA3	2.31	0.60
30:BK:101:SER:HB3	30:BK:140:GLY:O	2.01	0.60
18:B3:1167:G:H2'	30:BK:114:ARG:HH11	1.66	0.60
18:B3:1163:G:N3	30:BK:52:GLU:OE1	2.32	0.60
18:B3:1939:U:H5'	21:BB:241:ARG:HG3	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1847:A:O2'	47:B9:20:SER:HA	2.02	0.60
25:BF:202:TRP:HB3	25:BF:203:PRO:CA	2.31	0.60
44:BX:31:LEU:HD11	44:BX:40:SER:OG	2.02	0.60
18:B3:2501:G:C2	28:BI:157:TYR:HE1	2.19	0.60
18:B3:2819:C:O2'	22:BC:91:TYR:CE2	2.54	0.60
22:BC:20:ARG:HD3	22:BC:20:ARG:N	2.16	0.60
22:BC:324:LYS:O	22:BC:324:LYS:HE3	1.99	0.60
28:BI:104:SER:HA	28:BI:116:ARG:O	2.01	0.60
37:BR:48:ARG:NE	37:BR:49:LEU:H	1.99	0.60
18:B3:2240:U:O2'	18:B3:2241:C:H5'	2.02	0.60
26:BG:167:ALA:O	26:BG:168:LEU:HG	2.01	0.60
31:BL:99:ALA:CA	31:BL:168:LYS:HE3	2.26	0.60
20:BA:36:VAL:CG1	20:BA:204:LEU:HD13	2.29	0.60
18:B3:1671:U:O3'	39:BT:92:TYR:CE1	2.54	0.60
1:AA:615:C:O3'	5:AD:149:ARG:HB2	2.01	0.60
6:AE:215:VAL:HG23	8:AH:129:TYR:HH	1.66	0.60
2:AT:112:SER:HB2	2:AT:537:HIS:CE1	2.36	0.60
27:BH:10:ILE:CD1	27:BH:52:LEU:HD23	2.30	0.60
32:BM:17:ARG:HB2	32:BM:121:GLN:CG	2.27	0.60
1:AA:713:G:N2	11:AK:125:THR:N	2.49	0.60
35:BP:7:LYS:HZ3	35:BP:8:ARG:HD2	1.64	0.60
1:AA:1377:A:C6	7:AG:76:TYR:HD2	2.15	0.60
40:BU:57:LEU:C	40:BU:67:GLU:HG3	2.20	0.60
5:AD:30:LEU:CD1	5:AD:67:PRO:HG3	2.30	0.60
1:AA:948:C:OP1	13:AM:143:ARG:O	2.08	0.60
1:AA:239:U:C5	1:AA:240:C:N4	2.68	0.60
1:AA:519:C:OP2	12:AL:67:ALA:HB2	2.01	0.60
18:B3:283:U:H5''	18:B3:284:C:OP2	2.02	0.60
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.67	0.60
1:AA:812:C:O2'	1:AA:813:U:OP2	2.18	0.60
21:BB:39:TYR:C	21:BB:40:ILE:HD12	2.22	0.60
2:AT:731:VAL:HG12	2:AT:770:ALA:O	2.01	0.60
1:AA:1296:C:O2'	13:AM:54:LEU:CB	2.50	0.60
18:B3:843:A:O3'	33:BN:130:ARG:CG	2.43	0.60
1:AA:1176:A:C6	9:AI:108:PHE:O	2.54	0.60
10:AJ:41:ILE:HG22	10:AJ:52:LYS:NZ	2.15	0.60
19:B4:13:A:OP2	24:BE:11:ALA:HB2	2.00	0.60
24:BE:33:ARG:NH1	24:BE:33:ARG:HG3	2.11	0.60
36:BQ:61:THR:O	36:BQ:76:ILE:HG13	2.01	0.60
18:B3:492:C:H1'	33:BN:100:ASN:HA	1.83	0.60
18:B3:492:C:O2	33:BN:100:ASN:HB3	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:103:LYS:C	23:BD:103:LYS:HD2	2.21	0.60
23:BD:19:LEU:CD2	23:BD:19:LEU:H	2.13	0.60
34:BO:44:PHE:HE1	34:BO:139:ILE:HG12	1.67	0.60
18:B3:796:A:H62	18:B3:817:G:H1'	1.64	0.60
1:AA:190(E):U:P	16:AQ:137:ASN:HB2	2.40	0.60
18:B3:952:G:H5''	36:BQ:14:MET:HG2	1.82	0.60
18:B3:2818:A:H5'	22:BC:96:ARG:HB3	1.84	0.60
22:BC:118:TYR:HA	22:BC:132:TYR:CB	2.32	0.60
22:BC:228:VAL:HG23	22:BC:229:THR:N	2.16	0.60
22:BC:365:GLY:CA	38:BS:35:LYS:CD	2.77	0.60
26:BG:111:GLU:HB3	26:BG:213:LEU:HD11	1.83	0.60
26:BG:123:ASP:HB3	26:BG:188:LEU:HD22	1.82	0.60
18:B3:263:U:C4'	26:BG:161:LEU:CD1	2.79	0.60
31:BL:29:TYR:CD1	31:BL:62:ARG:HD3	2.37	0.60
31:BL:53:LYS:O	31:BL:53:LYS:HD2	2.01	0.60
31:BL:67:ARG:HG2	31:BL:125:THR:CB	2.32	0.60
18:B3:1714:C:OP1	18:B3:2745:C:H4'	2.01	0.60
18:B3:1566:C:O4'	35:BP:56:VAL:HG11	2.00	0.60
35:BP:88:LEU:N	35:BP:89:PRO:HD3	2.16	0.60
18:B3:2337:G:P	29:BJ:103:PHE:CG	2.94	0.60
29:BJ:41:GLY:HA3	29:BJ:74:LYS:NZ	2.16	0.60
29:BJ:69:THR:HG23	29:BJ:70:VAL:N	2.17	0.60
39:BT:74:LYS:HE3	39:BT:74:LYS:HA	1.81	0.60
39:BT:61:VAL:HG11	39:BT:97:ALA:CB	2.31	0.60
1:AA:860:A:O2'	8:AH:18:LYS:HE3	1.99	0.60
3:AB:81:GLY:HA2	3:AB:169:ILE:HD13	1.82	0.60
27:BH:18:VAL:C	27:BH:26:LYS:HD2	2.22	0.60
1:AA:777:A:H4'	11:AK:125:THR:CA	2.29	0.60
18:B3:2853:U:P	22:BC:170:LEU:HA	2.41	0.60
40:BU:60:ARG:HG2	40:BU:103:LYS:CB	2.31	0.60
41:BV:78:TRP:HB3	41:BV:117:ILE:HD12	1.83	0.60
41:BV:135:GLU:OE2	41:BV:138:ARG:HG2	2.02	0.60
41:BV:77:LEU:O	41:BV:80:LEU:HB3	2.02	0.60
32:BM:19:ALA:HB1	32:BM:83:LEU:CD2	2.27	0.60
29:BJ:132:ARG:HB2	29:BJ:133:PRO:CB	2.32	0.60
29:BJ:132:ARG:HB2	29:BJ:133:PRO:HB3	1.83	0.60
22:BC:146:GLU:O	22:BC:149:ARG:HB3	2.02	0.60
18:B3:367:G:O2'	18:B3:368:C:O5'	2.16	0.60
6:AE:133:LEU:HD22	6:AE:134:SER:H	1.66	0.60
1:AA:1414:U:O2'	1:AA:1415:G:H5'	2.02	0.60
18:B3:2549:C:OP2	22:BC:7:ALA:HB2	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:418:TYR:HA	2:AT:424:ASP:O	2.02	0.60
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.37	0.60
1:AA:1381:U:O2'	1:AA:1382:C:H5'	2.01	0.60
2:AT:472:SER:HB3	2:AT:475:ALA:HB2	1.83	0.60
32:BM:59:LYS:HE3	32:BM:62:ALA:O	2.02	0.60
1:AA:1321:C:C5'	17:AS:118:GLU:CA	2.65	0.60
1:AA:1307:U:O3'	13:AM:145:ARG:CD	2.49	0.60
17:AS:87:PRO:HG3	17:AS:112:LEU:CD2	2.31	0.60
18:B3:541:C:H5''	42:B0:14:THR:OG1	2.01	0.60
19:B4:26:C:OP2	24:BE:81:HIS:CE1	2.54	0.60
33:BN:118:VAL:HG13	33:BN:119:ASN:N	2.15	0.60
33:BN:17:ARG:HB3	33:BN:145:ILE:O	2.02	0.60
33:BN:29:ARG:NH1	33:BN:61:ARG:HH12	1.99	0.60
33:BN:9:ASN:HB3	33:BN:10:PRO:CA	2.31	0.60
23:BD:186:LEU:HA	23:BD:199:THR:N	2.16	0.60
18:B3:1343:C:OP1	23:BD:192:LYS:HB2	2.00	0.60
23:BD:207:VAL:H	23:BD:224:VAL:HG23	1.65	0.60
31:BL:82:LYS:HD3	46:BZ:49:PHE:N	2.17	0.60
21:BB:26:ALA:O	21:BB:122:ARG:HD2	2.02	0.60
21:BB:52:GLY:N	21:BB:53:ARG:HH21	1.99	0.60
19:B4:86:G:C5'	25:BF:218:LYS:HG3	2.31	0.60
1:AA:254:G:C1'	16:AQ:79:MET:CE	2.77	0.60
22:BC:20:ARG:CB	22:BC:20:ARG:HH11	2.15	0.60
22:BC:231:ARG:HD3	22:BC:232:TRP:CE3	2.36	0.60
28:BI:38:LYS:CD	28:BI:40:LYS:HG2	2.29	0.60
38:BS:23:ARG:CD	38:BS:28:ILE:HG13	2.31	0.60
18:B3:262:A:O2'	26:BG:134:GLY:HA3	2.01	0.60
31:BL:13:LYS:HG3	31:BL:13:LYS:O	2.02	0.60
18:B3:263:U:C2	31:BL:40:ARG:HD2	2.35	0.60
35:BP:97:ARG:HB2	35:BP:97:ARG:CZ	2.31	0.60
29:BJ:68:VAL:HG12	29:BJ:69:THR:N	2.15	0.60
29:BJ:87:GLU:HB3	29:BJ:90:LEU:CA	2.30	0.60
3:AB:74:ALA:HA	3:AB:121:ILE:HG23	1.83	0.60
5:AD:86:LEU:HD21	5:AD:104:PHE:HD2	1.60	0.60
5:AD:109:LEU:HD22	5:AD:129:ILE:HG13	1.84	0.60
5:AD:175:ARG:O	5:AD:188:ALA:HB3	2.02	0.60
5:AD:99:LEU:HD22	5:AD:102:GLU:C	2.22	0.60
35:BP:8:ARG:HH12	35:BP:18:LYS:NZ	1.99	0.60
43:BW:13:ILE:HB	43:BW:16:HIS:NE2	2.15	0.60
43:BW:48:VAL:CG1	43:BW:50:LEU:HD23	2.31	0.60
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:45:ILE:HD13	40:BU:46:LYS:H	1.66	0.60
41:BV:120:VAL:N	41:BV:121:PRO:HA	2.17	0.60
15:AO:80:ALA:HB1	15:AO:81:PRO:HD2	1.82	0.60
1:AA:751:U:HO2'	15:AO:83:ILE:CD1	2.14	0.60
4:AC:105:LYS:HG3	4:AC:172:ARG:CG	2.32	0.60
19:B4:22:G:O3'	19:B4:23:U:H4'	2.01	0.60
11:AK:111:ILE:O	11:AK:111:ILE:HG13	2.02	0.60
6:AE:145:THR:HG22	6:AE:146:ASN:N	2.16	0.60
42:B0:43:ARG:NH1	42:B0:44:ARG:H	1.99	0.60
18:B3:629:A:C5'	42:B0:38:ILE:C	2.70	0.60
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.02	0.60
1:AA:1178:G:O6	9:AI:111:TYR:CD1	2.54	0.60
9:AI:36:THR:CA	9:AI:39:GLU:HG2	2.32	0.60
9:AI:68:VAL:HG21	9:AI:76:GLN:HB3	1.83	0.60
9:AI:8:THR:HG23	9:AI:8:THR:O	2.01	0.60
19:B4:49:G:OP2	24:BE:98:ALA:CB	2.50	0.60
18:B3:517:U:H1'	18:B3:1339:G:O2'	2.02	0.60
34:BO:86:THR:HG1	34:BO:106:PHE:HA	1.66	0.60
23:BD:75:ARG:HA	23:BD:81:THR:O	2.01	0.60
45:BY:20:ARG:HA	45:BY:20:ARG:NE	2.15	0.60
47:B9:22:ARG:CZ	47:B9:25:VAL:HB	2.31	0.60
21:BB:116:GLU:N	21:BB:162:ARG:HD3	2.17	0.60
19:B4:85:A:O4'	25:BF:228:PHE:CE2	2.51	0.60
25:BF:85:VAL:O	25:BF:113:GLY:HA2	2.01	0.60
25:BF:83:VAL:HG12	25:BF:116:VAL:HB	1.82	0.60
25:BF:167:ILE:HG22	25:BF:168:ILE:H	1.66	0.60
25:BF:188:ILE:O	25:BF:188:ILE:HD13	2.01	0.60
18:B3:1732:A:N6	18:B3:2840:A:N3	2.49	0.60
22:BC:27:ARG:H	22:BC:27:ARG:CZ	2.14	0.60
28:BI:135:ILE:HD12	28:BI:135:ILE:N	2.17	0.60
26:BG:112:ALA:HB2	26:BG:121:LYS:HG2	1.84	0.60
26:BG:164:PHE:O	26:BG:168:LEU:HB2	2.00	0.60
31:BL:109:ALA:CB	31:BL:112:LEU:HD21	2.31	0.60
35:BP:80:ARG:HD2	35:BP:81:LYS:O	2.01	0.60
10:AJ:69:LYS:HB3	14:AN:39:ARG:O	2.02	0.60
6:AE:157:THR:CG2	8:AH:129:TYR:CD1	2.81	0.60
1:AA:99:C:C1'	1:AA:102:G:O6	2.25	0.60
37:BR:32:ARG:HD2	37:BR:62:VAL:CB	2.30	0.60
40:BU:63:LYS:HE2	40:BU:85:VAL:CG2	2.31	0.60
1:AA:405:U:O5'	5:AD:23:ARG:HB2	2.02	0.60
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1811:A:C2	18:B3:2752:C:N3	2.69	0.60
20:BA:174:MET:HB3	20:BA:178:VAL:CG2	2.25	0.60
32:BM:84:ARG:CD	32:BM:98:LEU:HD13	2.31	0.60
6:AE:151:HIS:HB3	6:AE:193:GLU:CB	2.24	0.60
4:AC:24:PHE:CA	4:AC:28:LEU:HD23	2.32	0.60
36:BQ:11:THR:N	36:BQ:12:ARG:HD2	2.16	0.60
7:AG:83:LYS:H	7:AG:83:LYS:CD	2.14	0.60
27:BH:137:SER:CB	27:BH:141:LYS:HA	2.31	0.60
18:B3:255:A:H2'	18:B3:256:C:C6	2.37	0.60
13:AM:91:ASP:C	13:AM:109:LEU:CG	2.65	0.60
1:AA:1321:C:N3	17:AS:81:ARG:CA	2.63	0.60
42:B0:42:VAL:HG23	42:B0:49:ASN:ND2	2.16	0.60
24:BE:32:GLN:O	24:BE:33:ARG:HG3	2.01	0.60
24:BE:34:LYS:NZ	36:BQ:27:LEU:CB	2.34	0.60
18:B3:1312:G:H1	23:BD:186:LEU:HD11	0.52	0.60
18:B3:1316:G:P	42:B0:104:ASN:O	2.60	0.60
18:B3:1166:G:C4	30:BK:107:ASP:OD2	2.55	0.60
18:B3:2837:U:H4'	22:BC:332:LYS:CE	2.31	0.60
22:BC:112:GLU:HA	22:BC:114:LYS:NZ	2.16	0.60
18:B3:2678:A:H4'	22:BC:13:LEU:CD1	2.32	0.60
22:BC:220:THR:N	22:BC:272:HIS:HB2	2.09	0.60
28:BI:52:LEU:O	28:BI:134:ILE:HA	2.02	0.60
28:BI:49:CYS:CB	28:BI:168:SER:HB3	2.32	0.60
18:B3:265:U:H5''	31:BL:55:LYS:CD	2.31	0.60
26:BG:138:VAL:HG21	26:BG:198:ALA:CB	2.09	0.60
26:BG:132:LYS:HG2	26:BG:141:LEU:HD23	1.84	0.60
18:B3:1707:G:OP1	35:BP:79:LYS:HD2	2.02	0.60
18:B3:2345:A:O3'	29:BJ:48:LYS:CD	2.46	0.60
29:BJ:75:ALA:HB2	29:BJ:78:ILE:HD11	1.84	0.60
20:BA:54:LYS:NZ	20:BA:153:SER:HB2	2.17	0.60
20:BA:57:ASN:CG	20:BA:155:ILE:HD12	2.21	0.60
18:B3:1507:C:C5'	39:BT:74:LYS:HD2	2.32	0.60
39:BT:74:LYS:CE	39:BT:78:GLY:HA3	2.31	0.60
18:B3:1672:G:C3'	39:BT:91:LYS:HG3	2.31	0.60
6:AE:165:THR:HB	6:AE:200:ASN:OD1	2.02	0.60
8:AH:101:VAL:HG23	8:AH:126:GLY:O	2.01	0.60
2:AT:140:GLU:HG3	2:AT:481:MET:N	2.04	0.60
37:BR:60:ALA:N	37:BR:74:MET:HG3	2.17	0.60
27:BH:108:GLY:C	27:BH:111:PHE:HD2	2.04	0.60
35:BP:24:ASP:OD2	35:BP:27:GLU:HG3	2.02	0.60
43:BW:31:ALA:CB	43:BW:58:ILE:HD11	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1075:C:H5'	3:AB:102:THR:CG2	2.32	0.60
1:AA:634:C:OP1	16:AQ:92:TYR:HB2	2.00	0.60
1:AA:404:U:C2	5:AD:19:TYR:CZ	2.88	0.60
1:AA:947:G:H3'	13:AM:143:ARG:CZ	2.32	0.60
18:B3:2663:U:O2	18:B3:2816:A:N9	2.33	0.60
18:B3:1267:C:O2'	42:B0:61:LYS:CG	2.50	0.60
18:B3:219:G:C4'	46:BZ:52:GLN:HG3	2.26	0.60
11:AK:65:ASP:OD1	11:AK:69:LYS:HE2	2.01	0.60
15:AO:87:LEU:O	15:AO:91:ILE:HG23	2.01	0.60
6:AE:187:LEU:O	6:AE:190:ALA:HB3	2.01	0.60
1:AA:1475:G:H2'	1:AA:1476:G:C8	2.35	0.60
46:BZ:88:LYS:HD3	46:BZ:89:HIS:CB	2.30	0.60
1:AA:1306:A:O2'	13:AM:144:ARG:HG3	2.02	0.60
1:AA:1329:A:C6	13:AM:94:ASP:CA	2.69	0.60
1:AA:959:A:H3'	1:AA:960:U:H5''	1.83	0.60
42:B0:35:GLN:NE2	42:B0:43:ARG:HD2	2.16	0.60
18:B3:621:C:OP2	42:B0:36:LYS:C	2.28	0.60
19:B4:69:U:H1'	24:BE:14:SER:HG	1.60	0.60
24:BE:163:LEU:HD23	24:BE:167:SER:HG	1.67	0.60
24:BE:180:PHE:HB3	24:BE:181:PRO:HD2	1.83	0.60
24:BE:208:MET:HB2	24:BE:211:LEU:HD22	1.83	0.60
19:B4:6:C:C3'	24:BE:28:THR:HG21	2.18	0.60
36:BQ:97:LYS:HE3	36:BQ:98:HIS:CD2	2.37	0.60
33:BN:59:PHE:CZ	33:BN:80:ALA:HA	2.25	0.60
23:BD:191:GLY:CA	23:BD:197:ARG:HD2	2.31	0.60
23:BD:207:VAL:HG23	23:BD:236:GLN:HG2	1.83	0.60
34:BO:60:PRO:HB2	34:BO:61:PRO:CA	2.31	0.60
31:BL:76:LYS:HE3	31:BL:77:GLY:O	2.02	0.60
30:BK:113:ALA:HA	30:BK:132:ILE:CD1	2.31	0.60
21:BB:147:VAL:CG2	21:BB:155:LYS:H	2.15	0.60
21:BB:174:VAL:HG23	21:BB:176:LYS:O	2.02	0.60
21:BB:61:VAL:HG13	21:BB:62:PHE:N	2.16	0.60
18:B3:1024:G:C2'	25:BF:104:LEU:HD11	2.30	0.60
25:BF:221:HIS:HD2	25:BF:223:ILE:H	1.49	0.60
1:AA:130:A:H8	16:AQ:135:ARG:HA	0.86	0.60
1:AA:254:G:C5'	16:AQ:79:MET:CE	2.79	0.60
18:B3:952:G:C5'	36:BQ:14:MET:SD	2.90	0.60
18:B3:2531:U:H2'	18:B3:2533:C:C6	2.37	0.60
22:BC:20:ARG:HH11	22:BC:20:ARG:HB2	1.67	0.60
28:BI:6:ALA:CB	28:BI:10:ARG:HE	2.14	0.60
26:BG:115:VAL:HG22	26:BG:116:ALA:N	2.15	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:125:SER:H	26:BG:128:PRO:CG	2.15	0.60
31:BL:154:VAL:HG12	31:BL:158:ARG:HA	1.81	0.60
31:BL:163:LEU:HD13	31:BL:164:THR:CG2	2.24	0.60
18:B3:1713:G:O2'	18:B3:2745:C:O2'	2.19	0.60
20:BA:165:LEU:HD12	20:BA:165:LEU:O	2.01	0.60
18:B3:1449:G:P	39:BT:110:ASN:ND2	2.75	0.60
3:AB:125:PRO:HG3	3:AB:146:THR:OG1	2.01	0.60
3:AB:122:VAL:CG1	3:AB:144:ALA:HB2	2.31	0.60
12:AL:107:PHE:HB3	12:AL:123:LYS:CD	2.28	0.60
1:AA:99:C:C1'	1:AA:102:G:C6	2.85	0.60
2:AT:112:SER:HB3	2:AT:537:HIS:HB2	1.83	0.60
37:BR:58:VAL:HG22	37:BR:76:ALA:O	2.01	0.60
18:B3:2566:A:H5'	27:BH:174:LYS:NZ	2.12	0.60
27:BH:10:ILE:O	27:BH:52:LEU:HB3	2.02	0.60
27:BH:118:LEU:HD13	27:BH:177:ASP:OD2	2.01	0.60
27:BH:153:ASP:OD1	27:BH:154:VAL:HG13	2.01	0.60
27:BH:26:LYS:HG2	27:BH:27:VAL:N	2.17	0.60
18:B3:1247:A:N6	32:BM:17:ARG:NH1	2.50	0.60
35:BP:16:VAL:HB	35:BP:20:LYS:HD3	1.81	0.60
35:BP:50:VAL:O	35:BP:51:LYS:HE3	2.02	0.60
43:BW:15:LEU:HD12	43:BW:15:LEU:N	2.17	0.60
40:BU:80:VAL:HG22	40:BU:81:GLN:N	2.17	0.60
1:AA:21:G:C5'	1:AA:884:U:O3'	2.49	0.60
6:AE:206:LEU:H	6:AE:206:LEU:CD2	2.14	0.60
1:AA:292:G:H21	1:AA:609:A:H1'	1.65	0.60
1:AA:580:U:P	15:AO:112:PHE:HZ	2.25	0.60
18:B3:1154:A:C8	18:B3:1156:C:N1	2.67	0.60
1:AA:689:C:OP1	11:AK:50:ASP:CA	2.42	0.60
4:AC:180:VAL:C	4:AC:181:LEU:HD12	2.22	0.60
1:AA:970:C:N4	9:AI:142:ARG:HE	1.87	0.60
32:BM:83:LEU:HB3	32:BM:84:ARG:NH1	2.17	0.60
32:BM:5:VAL:HG13	32:BM:6:VAL:N	2.11	0.60
1:AA:562:C:C2	12:AL:32:ARG:CB	2.07	0.60
22:BC:143:ILE:HG22	22:BC:147:LEU:HD13	1.84	0.60
1:AA:1473:A:O2'	18:B3:1780:G:H4'	2.02	0.60
1:AA:1330:U:C2	13:AM:93:THR:C	2.75	0.60
13:AM:29:VAL:HG13	13:AM:43:SER:HB2	1.84	0.60
18:B3:1689:A:H2'	33:BN:128:THR:HG21	1.83	0.60
18:B3:844:A:C4'	33:BN:133:GLY:CA	2.80	0.60
9:AI:114:THR:HG22	9:AI:117:ILE:CG2	2.30	0.60
19:B4:47:A:H5''	24:BE:153:THR:HA	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:151:GLN:OE1	24:BE:159:VAL:HG21	2.01	0.60
24:BE:34:LYS:NZ	36:BQ:27:LEU:HB3	2.17	0.60
19:B4:5:G:HO2'	24:BE:50:ARG:HH22	1.46	0.60
1:AA:335:C:O2'	1:AA:1433:A:C2'	2.41	0.60
18:B3:1277:C:H5''	34:BO:34:THR:CG2	2.28	0.60
18:B3:1350:U:OP1	23:BD:110:VAL:CG1	2.35	0.60
18:B3:646:G:C5'	23:BD:106:ARG:HH22	2.15	0.60
23:BD:136:ALA:CB	23:BD:137:ARG:HH21	2.08	0.60
34:BO:33:TYR:CD2	34:BO:48:VAL:HG13	2.36	0.60
34:BO:67:ILE:HG22	34:BO:94:PHE:HE2	1.67	0.60
45:BY:27:HIS:HB2	45:BY:30:LYS:CB	2.31	0.60
45:BY:29:GLN:O	45:BY:30:LYS:HB3	2.00	0.60
21:BB:191:LYS:HZ2	21:BB:191:LYS:HB2	1.67	0.60
18:B3:2526:C:H5''	18:B3:2605:G:C4'	2.30	0.60
18:B3:1741:U:H4'	18:B3:2723:G:O3'	1.93	0.60
22:BC:163:THR:H	22:BC:177:LEU:HD23	1.67	0.60
22:BC:210:GLN:HG3	22:BC:284:VAL:HG23	1.84	0.60
22:BC:84:VAL:HG13	22:BC:164:GLN:NE2	2.15	0.60
28:BI:152:LEU:N	28:BI:154:ARG:HH21	1.95	0.60
37:BR:96:GLU:HB3	37:BR:97:ASP:O	2.01	0.60
26:BG:141:LEU:HD22	26:BG:147:ALA:HB2	1.83	0.60
1:AA:402:G:H1'	1:AA:621:A:C5	2.35	0.60
1:AA:621:A:OP2	5:AD:143:ILE:HG23	2.02	0.60
2:AT:465:LYS:HZ3	2:AT:518:VAL:HG11	1.67	0.60
2:AT:108:HIS:CE1	2:AT:540:ILE:HG13	2.25	0.60
35:BP:37:ARG:HH22	35:BP:40:ILE:HD13	1.63	0.60
18:B3:2408:A:N3	46:BZ:19:HIS:NE2	2.50	0.60
1:AA:1497:G:C2	1:AA:1518:A:C4	2.89	0.60
40:BU:38:GLU:HA	40:BU:40:ARG:HH21	1.66	0.60
18:B3:1300:G:N1	18:B3:1330:A:C6	2.70	0.60
18:B3:904:U:OP2	41:BV:13:HIS:O	2.19	0.60
1:AA:949:A:C3'	13:AM:141:THR:OG1	2.45	0.60
11:AK:52:ASP:OD1	11:AK:53:GLU:HA	2.01	0.60
18:B3:2748:G:O2'	18:B3:2749:U:OP2	2.20	0.60
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.36	0.60
2:AT:91:GLN:HE22	2:AT:344:SER:N	1.99	0.60
27:BH:140:VAL:HG23	27:BH:141:LYS:H	1.67	0.60
2:AT:237:LYS:O	2:AT:241:MET:HG2	2.02	0.60
1:AA:193:C:H2'	1:AA:194:C:C6	2.37	0.60
18:B3:1557:G:O2'	18:B3:1558:C:H5'	2.02	0.60
18:B3:514:G:OP1	18:B3:514:G:H3'	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1318:A:C5	17:AS:56:PHE:CZ	2.76	0.59
1:AA:1308:U:N1	13:AM:93:THR:OG1	2.33	0.59
42:B0:19:ARG:HG2	42:B0:33:ARG:N	2.11	0.59
19:B4:51:A:N3	24:BE:58:LYS:CD	2.64	0.59
19:B4:6:C:P	24:BE:28:THR:HA	2.42	0.59
24:BE:63:GLN:HG3	24:BE:74:VAL:HG21	1.83	0.59
36:BQ:42:ILE:HA	36:BQ:95:HIS:ND1	2.17	0.59
18:B3:525:G:OP1	33:BN:33:GLN:CG	2.50	0.59
23:BD:125:ILE:HD12	23:BD:255:THR:HG21	1.84	0.59
23:BD:151:VAL:CG2	23:BD:248:ILE:HD11	2.31	0.59
23:BD:184:LYS:CB	23:BD:199:THR:HG22	2.32	0.59
18:B3:820:G:H4'	18:B3:856:G:H5'	1.84	0.59
47:B9:38:CYS:SG	47:B9:61:LYS:HG3	2.42	0.59
21:BB:115:VAL:CG2	21:BB:125:LEU:HD13	2.15	0.59
21:BB:110:THR:HG22	21:BB:135:ILE:HG21	1.84	0.59
21:BB:9:LYS:HA	21:BB:15:PHE:CE2	2.37	0.59
18:B3:946:C:H5'	25:BF:124:GLU:CB	2.32	0.59
25:BF:179:SER:O	25:BF:180:ILE:HG23	2.02	0.59
28:BI:153:ARG:HH11	28:BI:153:ARG:HB3	1.67	0.59
37:BR:57:MET:HE3	37:BR:126:TRP:HZ2	1.67	0.59
18:B3:2720:C:O2	37:BR:84:SER:HB2	2.02	0.59
37:BR:85:TRP:HD1	37:BR:93:LEU:O	1.84	0.59
37:BR:95:PHE:CE2	38:BS:23:ARG:HG3	2.37	0.59
26:BG:156:VAL:HG12	26:BG:157:ASP:O	2.02	0.59
26:BG:129:TYR:CD1	26:BG:202:VAL:HG11	2.37	0.59
18:B3:263:U:O2	31:BL:40:ARG:CD	2.50	0.59
18:B3:1794:G:H4'	35:BP:96:ARG:HB3	1.81	0.59
1:AA:1240:U:H5'	7:AG:188:THR:CG2	2.32	0.59
39:BT:102:TYR:HD2	39:BT:104:VAL:HG23	1.68	0.59
10:AJ:69:LYS:HE3	14:AN:39:ARG:HH12	1.67	0.59
8:AH:30:SER:H	8:AH:33:ILE:HG22	1.65	0.59
32:BM:136:THR:C	32:BM:137:LEU:HD12	2.23	0.59
1:AA:676:A:H3'	11:AK:120:VAL:HA	1.84	0.59
1:AA:678:U:H1'	11:AK:125:THR:CG2	2.28	0.59
1:AA:1343:G:H4'	9:AI:136:ARG:O	2.01	0.59
1:AA:294:U:P	1:AA:610:G:H1'	2.37	0.59
40:BU:17:LYS:HB2	40:BU:17:LYS:HZ3	1.66	0.59
18:B3:2633:A:OP1	21:BB:213:GLY:CA	2.49	0.59
43:BW:77:LYS:NZ	43:BW:82:GLU:HB3	2.17	0.59
20:BA:85:MET:SD	20:BA:93:LEU:HD12	2.41	0.59
18:B3:561:G:H2'	18:B3:562:A:H8	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:74:VAL:HG11	16:AQ:83:ILE:HD11	1.81	0.59
18:B3:1810:C:C1'	18:B3:2753:G:H1'	2.29	0.59
1:AA:476:G:O2'	1:AA:477:G:H5'	2.02	0.59
7:AG:215:GLU:O	7:AG:219:VAL:HG23	2.01	0.59
4:AC:43:THR:HB	4:AC:81:GLY:HA3	1.84	0.59
25:BF:238:LEU:O	25:BF:238:LEU:HD23	2.02	0.59
17:AS:93:VAL:HG11	17:AS:104:GLN:HG3	1.82	0.59
1:AA:1178:G:N1	9:AI:111:TYR:CE1	2.69	0.59
24:BE:108:ARG:O	24:BE:112:ARG:HG3	2.02	0.59
24:BE:46:THR:HG21	24:BE:49:TYR:CB	2.30	0.59
18:B3:1342:C:H42	23:BD:186:LEU:CG	2.03	0.59
18:B3:1310:U:O4	23:BD:201:ARG:C	2.41	0.59
23:BD:149:LEU:HD22	23:BD:246:PHE:CZ	2.36	0.59
18:B3:745:G:H21	41:BV:76:LYS:HE3	1.68	0.59
31:BL:82:LYS:HZ1	46:BZ:49:PHE:HB3	1.67	0.59
30:BK:62:LEU:HD23	30:BK:72:SER:CB	2.27	0.59
21:BB:157:ILE:O	21:BB:157:ILE:HG23	2.02	0.59
21:BB:62:PHE:CB	21:BB:66:TYR:HD1	2.09	0.59
25:BF:100:LYS:NZ	25:BF:104:LEU:HD22	2.17	0.59
25:BF:111:ASN:ND2	25:BF:208:ASN:HB2	2.17	0.59
18:B3:107:U:N1	44:BX:56:THR:HB	2.17	0.59
18:B3:1058:A:N6	28:BI:106:ALA:O	2.23	0.59
18:B3:2720:C:OP1	38:BS:33:ASN:CB	2.48	0.59
18:B3:2756:U:H3	18:B3:2896:A:H2	1.41	0.59
22:BC:165:ILE:N	22:BC:165:ILE:HD12	2.17	0.59
22:BC:302:LYS:HB3	22:BC:316:ILE:O	2.02	0.59
22:BC:57:ARG:HH11	22:BC:72:VAL:CG2	2.14	0.59
26:BG:161:LEU:CG	31:BL:3:TYR:OH	2.50	0.59
18:B3:1812:G:O4'	18:B3:2732:U:C4'	2.49	0.59
4:AC:39:ARG:HE	10:AJ:110:PRO:CB	2.11	0.59
10:AJ:74:GLU:O	14:AN:37:ILE:CG2	2.43	0.59
8:AH:16:ALA:CB	8:AH:24:VAL:HG21	2.31	0.59
1:AA:97:G:OP2	1:AA:383:A:H2	1.85	0.59
2:AT:464:LEU:HD22	2:AT:510:ARG:CB	2.30	0.59
1:AA:1373:G:H1'	7:AG:104:GLY:HA3	1.84	0.59
18:B3:2578:G:C8	18:B3:2801:A:C4'	2.84	0.59
11:AK:132:ARG:HG3	11:AK:132:ARG:O	2.02	0.59
43:BW:58:ILE:HG23	43:BW:59:TRP:NE1	2.16	0.59
5:AD:24:LEU:O	5:AD:27:GLU:HG2	2.01	0.59
18:B3:875:A:H1'	21:BB:203:MET:CE	2.31	0.59
18:B3:926:A:N9	41:BV:45:ASP:OD2	2.31	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:598:U:H1'	8:AH:88:TRP:CH2	2.36	0.59
4:AC:122:VAL:HG12	4:AC:135:VAL:HG23	1.83	0.59
7:AG:132:VAL:HG23	7:AG:133:VAL:N	2.17	0.59
18:B3:1378:G:C6	18:B3:2748:G:N7	2.70	0.59
1:AA:1111:A:H61	4:AC:161:GLN:CD	2.05	0.59
18:B3:1810:C:N3	18:B3:2753:G:N9	2.50	0.59
3:AB:164:ARG:HG2	3:AB:165:GLY:N	2.18	0.59
18:B3:1477:C:H5'	18:B3:1868:G:C5'	2.32	0.59
13:AM:89:GLN:HG3	13:AM:109:LEU:CA	2.28	0.59
17:AS:58:LYS:HG2	17:AS:59:LYS:N	2.16	0.59
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.67	0.59
9:AI:98:GLU:N	9:AI:104:LEU:N	2.51	0.59
10:AJ:96:PRO:HB3	10:AJ:99:ILE:HD12	1.84	0.59
24:BE:106:ALA:HB2	24:BE:166:ALA:CA	2.24	0.59
33:BN:9:ASN:CG	33:BN:11:ALA:HB3	2.22	0.59
23:BD:137:ARG:NE	23:BD:137:ARG:H	2.00	0.59
18:B3:1349:G:C3'	23:BD:43:LYS:HB2	1.97	0.59
18:B3:35:U:C5'	23:BD:49:TYR:CA	2.79	0.59
18:B3:1848:G:OP2	21:BB:178:LEU:HD23	2.02	0.59
21:BB:179:LEU:CA	47:B9:20:SER:CB	2.80	0.59
21:BB:190:LEU:HD23	21:BB:191:LYS:N	2.17	0.59
19:B4:96:C:N3	25:BF:220:LYS:CE	2.66	0.59
25:BF:233:GLU:OE1	25:BF:236:ASN:HB2	2.02	0.59
1:AA:255:G:C4'	16:AQ:80:HIS:HB2	2.32	0.59
44:BX:10:ARG:HB3	44:BX:10:ARG:HH11	1.66	0.59
44:BX:20:GLN:HA	44:BX:23:ASP:OD2	2.02	0.59
18:B3:2830:U:C2	22:BC:126:LYS:HD3	2.37	0.59
22:BC:89:VAL:HG12	22:BC:103:THR:HG22	1.84	0.59
18:B3:2822:C:OP1	22:BC:135:LYS:O	2.19	0.59
22:BC:112:GLU:CG	22:BC:173:LYS:HA	2.32	0.59
22:BC:220:THR:HG22	22:BC:272:HIS:HB2	1.83	0.59
22:BC:260:MET:CB	32:BM:66:THR:CB	2.80	0.59
22:BC:251:ILE:HG23	22:BC:263:VAL:HG21	1.83	0.59
18:B3:2764:C:OP1	37:BR:85:TRP:HA	2.02	0.59
31:BL:57:GLY:HA2	31:BL:135:ASP:OD2	2.02	0.59
18:B3:2734:G:H5''	35:BP:79:LYS:HA	1.83	0.59
1:AA:1240:U:H5'	7:AG:188:THR:HA	0.61	0.59
18:B3:2346:C:HO2'	29:BJ:66:VAL:C	1.93	0.59
18:B3:2347:C:H6	29:BJ:66:VAL:HG12	1.09	0.59
29:BJ:83:LEU:CD1	29:BJ:166:TYR:HE1	2.13	0.59
29:BJ:36:LEU:HD22	29:BJ:67:HIS:NE2	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:77:ALA:HB1	20:BA:82:VAL:HG23	1.83	0.59
10:AJ:82:TYR:CZ	14:AN:43:ARG:NH1	2.70	0.59
3:AB:171:LEU:HA	3:AB:174:TYR:HE2	1.66	0.59
2:AT:141:THR:HG23	2:AT:483:PHE:CD2	2.38	0.59
37:BR:22:ILE:N	37:BR:22:ILE:HD12	2.17	0.59
1:AA:1348:U:H4'	9:AI:134:ARG:HG3	0.61	0.59
18:B3:1226:G:C5'	18:B3:1246:A:N6	2.63	0.59
27:BH:106:LYS:HG3	27:BH:108:GLY:H	1.67	0.59
27:BH:134:ILE:CD1	27:BH:146:LEU:HD12	2.32	0.59
32:BM:123:LEU:HB2	32:BM:125:VAL:CG2	2.22	0.59
18:B3:1398:G:C4'	35:BP:25:PRO:HD3	2.31	0.59
35:BP:41:ARG:H	35:BP:43:LEU:CD2	2.15	0.59
1:AA:1405:G:N1	1:AA:1518:A:N3	2.50	0.59
1:AA:292:G:C3'	1:AA:609:A:C6	2.84	0.59
41:BV:121:PRO:HG3	41:BV:140:ALA:HB1	1.84	0.59
41:BV:123:ILE:HG22	41:BV:142:GLY:H	1.66	0.59
41:BV:86:ARG:HG2	41:BV:87:ASP:N	2.17	0.59
18:B3:74:A:H2'	18:B3:75:U:H6	1.67	0.59
42:B0:55:ILE:HD12	42:B0:55:ILE:O	1.98	0.59
18:B3:2507:G:H2'	18:B3:2510:C:H42	1.67	0.59
36:BQ:39:ILE:HD11	36:BQ:99:SER:CB	2.32	0.59
2:AT:710:ARG:NH1	2:AT:714:TYR:OH	2.36	0.59
7:AG:91:ARG:CG	7:AG:92:LEU:HD12	2.32	0.59
1:AA:1296:C:H5''	13:AM:52:VAL:CA	2.28	0.59
1:AA:1298:C:H41	7:AG:184:ARG:NH1	1.93	0.59
1:AA:1125:U:N3	10:AJ:23:ARG:NE	2.21	0.59
1:AA:1177:G:H5''	9:AI:106:LYS:N	2.17	0.59
24:BE:110:LEU:HD21	24:BE:171:LEU:HB3	1.85	0.59
24:BE:24:ARG:HG2	24:BE:25:GLU:N	2.17	0.59
36:BQ:92:ARG:NE	36:BQ:92:ARG:HA	2.18	0.59
33:BN:107:ASP:O	33:BN:111:LEU:HD22	2.01	0.59
33:BN:17:ARG:HD2	33:BN:93:LEU:HB2	1.82	0.59
30:BK:50:THR:HG22	30:BK:50:THR:O	2.03	0.59
18:B3:1857:A:OP1	21:BB:117:GLU:OE1	2.20	0.59
21:BB:83:THR:HG1	47:B9:62:THR:CG2	2.16	0.59
21:BB:179:LEU:HD11	47:B9:22:ARG:HD3	1.85	0.59
25:BF:147:VAL:HG11	25:BF:184:ILE:HG21	1.84	0.59
1:AA:255:G:H4'	16:AQ:80:HIS:O	2.00	0.59
18:B3:2533:C:H5'	18:B3:2533:C:H6	1.66	0.59
18:B3:2830:U:C6	22:BC:125:LYS:NZ	2.62	0.59
22:BC:118:TYR:CB	22:BC:132:TYR:HD1	2.15	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:49:LYS:HD2	22:BC:50:ALA:C	2.21	0.59
22:BC:48:TYR:CG	22:BC:49:LYS:N	2.70	0.59
28:BI:10:ARG:HB2	28:BI:58:GLU:O	2.02	0.59
31:BL:168:LYS:CD	31:BL:169:LYS:HZ2	2.14	0.59
31:BL:97:LEU:HD22	31:BL:97:LEU:N	2.13	0.59
18:B3:2738:G:C3'	35:BP:60:SER:HA	2.33	0.59
18:B3:2346:C:O2'	29:BJ:65:ALA:C	2.41	0.59
18:B3:2334:C:C4	29:BJ:114:LYS:C	2.72	0.59
18:B3:2165:G:C3'	20:BA:33:GLU:HB3	2.33	0.59
39:BT:98:VAL:CG1	39:BT:106:VAL:HG11	2.30	0.59
4:AC:20:LEU:HG	4:AC:76:PHE:CE1	2.38	0.59
1:AA:402:G:C1'	1:AA:620:C:C5	2.68	0.59
6:AE:157:THR:CG2	8:AH:127:PHE:HE1	2.03	0.59
1:AA:11:G:O2'	1:AA:525:C:C1'	2.49	0.59
12:AL:59:ILE:HD11	12:AL:117:ILE:HB	1.85	0.59
12:AL:125:VAL:HG22	12:AL:128:SER:H	1.67	0.59
37:BR:34:LEU:H	37:BR:34:LEU:CD1	2.12	0.59
18:B3:2578:G:C8	18:B3:2801:A:C5'	2.86	0.59
1:AA:634:C:H6	16:AQ:92:TYR:HE2	1.49	0.59
40:BU:85:VAL:HG13	40:BU:86:THR:N	2.16	0.59
2:AT:738:GLN:N	18:B3:1199:A:H61	2.00	0.59
1:AA:1484:C:O2	18:B3:2001:G:H4'	1.89	0.59
1:AA:1504:G:P	1:AA:1507:A:C8	2.91	0.59
18:B3:2663:U:C2	18:B3:2816:A:C2	2.91	0.59
11:AK:26:PHE:HD1	11:AK:41:VAL:CG1	2.15	0.59
11:AK:41:VAL:HG23	11:AK:43:GLY:N	2.17	0.59
3:AB:26:ARG:CB	3:AB:44:VAL:HG12	2.18	0.59
21:BB:199:ARG:CZ	21:BB:202:ALA:HB2	2.33	0.59
15:AO:90:LEU:HB3	15:AO:121:ILE:CD1	2.32	0.59
6:AE:115:LYS:HE3	6:AE:130:ILE:HB	1.84	0.59
4:AC:119:TYR:O	4:AC:122:VAL:HG22	2.02	0.59
32:BM:84:ARG:HE	32:BM:87:VAL:HG21	1.65	0.59
7:AG:129:ILE:O	7:AG:132:VAL:HG22	2.02	0.59
30:BK:22:VAL:HG23	30:BK:43:GLY:HA3	1.83	0.59
1:AA:991:U:OP2	1:AA:1212:U:C4	2.55	0.59
26:BG:183:ALA:HA	26:BG:194:SER:HB3	1.84	0.59
18:B3:256:C:H2'	18:B3:257:G:O4'	2.02	0.59
18:B3:1477:C:O2'	18:B3:1478:U:H5'	2.03	0.59
18:B3:1636:G:O2'	18:B3:1637:A:H5'	2.02	0.59
18:B3:2112:A:H2'	18:B3:2113:G:C8	2.37	0.59
13:AM:85:PHE:CA	13:AM:100:THR:HB	2.25	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1308:U:OP1	13:AM:145:ARG:NE	2.25	0.59
17:AS:124:THR:HG21	17:AS:126:VAL:HG22	1.83	0.59
33:BN:116:ILE:HD13	33:BN:116:ILE:N	2.18	0.59
42:B0:108:ILE:HG23	42:B0:108:ILE:O	2.02	0.59
42:B0:76:VAL:CG2	42:B0:94:ALA:HB1	2.32	0.59
18:B3:517:U:H5'	18:B3:1340:G:P	2.42	0.59
18:B3:709:G:O3'	34:BO:44:PHE:CD2	2.56	0.59
18:B3:721:A:H5'	34:BO:72:LYS:N	2.04	0.59
34:BO:64:VAL:CG2	34:BO:89:ASP:HA	2.30	0.59
25:BF:139:SER:O	25:BF:142:THR:HB	2.02	0.59
25:BF:168:ILE:HD12	25:BF:168:ILE:N	2.16	0.59
18:B3:2614:C:O2'	22:BC:239:ARG:C	2.39	0.59
18:B3:2817:G:O2'	22:BC:96:ARG:CB	2.29	0.59
22:BC:39:PRO:CD	22:BC:190:LYS:HB3	2.31	0.59
28:BI:52:LEU:HD13	28:BI:52:LEU:N	2.17	0.59
26:BG:142:ILE:HD13	26:BG:172:MET:SD	2.42	0.59
35:BP:100:VAL:HG23	35:BP:101:LEU:N	2.18	0.59
29:BJ:15:LYS:HB2	29:BJ:15:LYS:NZ	2.17	0.59
18:B3:2347:C:O2'	29:BJ:17:VAL:CG2	2.51	0.59
18:B3:2214:A:C4	20:BA:106:LYS:CE	2.85	0.59
20:BA:36:VAL:HG22	20:BA:204:LEU:CD1	2.32	0.59
18:B3:2166:G:O6	20:BA:61:PRO:CD	2.50	0.59
4:AC:83:ILE:HG22	4:AC:84:VAL:N	2.17	0.59
1:AA:402:G:H8	1:AA:621:A:N3	1.92	0.59
5:AD:99:LEU:CD2	5:AD:107:ARG:HB2	2.32	0.59
5:AD:150:LEU:H	5:AD:150:LEU:HD12	1.67	0.59
1:AA:362:G:O2'	12:AL:78:LYS:CD	2.50	0.59
27:BH:63:LYS:CE	32:BM:129:LYS:CD	2.74	0.59
18:B3:1241:G:H21	32:BM:86:MET:HG2	1.67	0.59
43:BW:22:VAL:HG12	43:BW:24:PHE:H	1.67	0.59
40:BU:100:HIS:HD2	40:BU:101:PRO:HA	1.68	0.59
1:AA:124:G:C5'	1:AA:290:C:O2	2.49	0.59
11:AK:42:THR:OG1	11:AK:58:ALA:HB1	2.01	0.59
3:AB:28:VAL:HA	3:AB:148:LEU:HG	1.83	0.59
33:BN:127:ARG:HG2	33:BN:138:TYR:HB3	1.84	0.59
30:BK:22:VAL:CG2	30:BK:43:GLY:HA3	2.32	0.59
40:BU:88:GLU:OE1	40:BU:88:GLU:HA	2.01	0.59
33:BN:6:THR:HG22	33:BN:7:SER:N	2.18	0.59
1:AA:988:G:C6	1:AA:1015:A:C2	2.88	0.59
42:B0:19:ARG:CA	42:B0:19:ARG:HH11	2.12	0.59
24:BE:111:GLN:HG2	24:BE:115:LEU:HD12	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:64:ILE:O	24:BE:64:ILE:HG23	2.03	0.59
18:B3:745:G:N7	34:BO:90:ASP:OD2	2.36	0.59
23:BD:114:HIS:O	23:BD:117:LYS:HB3	2.02	0.59
23:BD:130:VAL:CG1	23:BD:134:VAL:HG23	2.32	0.59
18:B3:765:G:OP1	23:BD:84:SER:HB3	1.46	0.59
21:BB:17:SER:HB3	21:BB:192:ARG:CG	2.10	0.59
18:B3:2468:A:N9	46:BZ:55:PRO:HG3	2.17	0.59
1:AA:190(D):U:C2'	16:AQ:109:HIS:O	2.51	0.59
22:BC:189:GLU:CG	22:BC:190:LYS:HE2	2.31	0.59
18:B3:1735:C:H6	22:BC:245:LEU:HD21	1.68	0.59
22:BC:313:TYR:CE1	22:BC:332:LYS:HB2	2.38	0.59
28:BI:10:ARG:HD2	28:BI:160:PRO:CG	2.17	0.59
28:BI:10:ARG:HH11	28:BI:10:ARG:CB	2.12	0.59
26:BG:125:SER:N	26:BG:128:PRO:HD2	2.17	0.59
31:BL:122:GLN:HG3	31:BL:128:TYR:HD1	1.66	0.59
18:B3:2337:G:OP2	29:BJ:103:PHE:CB	2.50	0.59
18:B3:2214:A:C1'	20:BA:103:LEU:HD12	2.32	0.59
20:BA:6:SER:O	20:BA:10:ARG:HG3	2.03	0.59
4:AC:17:TYR:OH	4:AC:40:VAL:HB	2.02	0.59
10:AJ:72:ASN:OD1	14:AN:26:HIS:HA	2.02	0.59
3:AB:141:PRO:CA	8:AH:68:LEU:HD13	2.24	0.59
5:AD:156:ILE:CB	5:AD:164:PHE:HZ	2.13	0.59
1:AA:11:G:O2'	1:AA:525:C:O2'	2.20	0.59
27:BH:125:ASN:ND2	27:BH:164:ILE:HG12	2.16	0.59
27:BH:20:ILE:HD12	27:BH:25:VAL:HA	1.82	0.59
32:BM:11:LYS:HB2	32:BM:36:ARG:CD	2.33	0.59
27:BH:64:HIS:CG	32:BM:127:ARG:CB	2.85	0.59
18:B3:1227:C:P	32:BM:48:ARG:HH21	2.26	0.59
1:AA:1068:G:O5'	1:AA:1388:C:H5'	2.02	0.59
18:B3:1397:C:O2'	35:BP:23:LEU:CG	2.48	0.59
35:BP:31:ILE:HD12	35:BP:31:ILE:O	2.02	0.59
46:BZ:72:GLU:HA	46:BZ:79:ARG:CG	2.31	0.59
40:BU:97:ILE:HG13	40:BU:97:ILE:O	2.01	0.59
1:AA:567:G:OP1	6:AE:201:GLY:CA	2.50	0.59
1:AA:405:U:O2'	5:AD:25:ASP:N	2.31	0.59
1:AA:405:U:OP2	5:AD:37:LYS:CG	2.49	0.59
1:AA:519:C:H5''	12:AL:67:ALA:HB1	1.84	0.59
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.33	0.59
1:AA:1182:G:H4'	1:AA:1183:A:O5'	2.02	0.59
5:AD:178:ALA:HA	5:AD:185:GLY:HA2	1.84	0.59
4:AC:55:GLN:HG3	4:AC:56:ASP:N	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1497:G:H4'	18:B3:1627:G:O2'	2.03	0.59
42:B0:80:LYS:HD3	42:B0:80:LYS:O	2.01	0.59
1:AA:1223:C:H5'	17:AS:100:LYS:CD	2.29	0.59
1:AA:1307:U:O3'	13:AM:145:ARG:HD2	2.02	0.59
9:AI:72:GLY:O	9:AI:76:GLN:HG3	2.03	0.59
24:BE:115:LEU:HD22	24:BE:116:ASP:N	2.17	0.59
19:B4:5:G:O2'	24:BE:50:ARG:NH1	2.35	0.59
24:BE:68:THR:HG22	24:BE:69:ILE:H	1.65	0.59
36:BQ:36:VAL:HG22	36:BQ:37:GLY:N	2.14	0.59
36:BQ:76:ILE:O	36:BQ:76:ILE:HG23	2.03	0.59
33:BN:46:TYR:HD1	33:BN:47:LEU:N	2.00	0.59
23:BD:181:LEU:HD13	23:BD:183:SER:O	2.02	0.59
23:BD:227:ALA:CB	23:BD:232:LEU:HD13	2.29	0.59
34:BO:32:LEU:HD12	34:BO:128:ALA:HB1	1.84	0.59
18:B3:894:A:N3	23:BD:98:MET:SD	2.75	0.59
45:BY:31:LYS:HD3	45:BY:31:LYS:N	2.18	0.59
18:B3:693:A:O2'	41:BV:59:TYR:OH	2.18	0.59
25:BF:100:LYS:HD2	25:BF:100:LYS:C	2.22	0.59
25:BF:168:ILE:CD1	25:BF:179:SER:HA	2.32	0.59
25:BF:184:ILE:HG12	25:BF:184:ILE:O	2.02	0.59
25:BF:185:HIS:O	25:BF:188:ILE:HG22	2.02	0.59
18:B3:953:G:C2'	36:BQ:13:TYR:CZ	2.86	0.59
18:B3:2502:C:H1'	28:BI:157:TYR:CD1	2.38	0.59
18:B3:2653:A:H4'	22:BC:256:PRO:CA	2.33	0.59
18:B3:2679:G:H2'	18:B3:2681:A:OP2	2.03	0.59
22:BC:162:HIS:NE2	22:BC:164:GLN:HG3	2.17	0.59
28:BI:49:CYS:HA	28:BI:139:ARG:NE	2.17	0.59
26:BG:119:LYS:HG3	26:BG:188:LEU:HG	1.84	0.59
18:B3:1805:G:H2'	18:B3:2883:A:N1	2.17	0.59
10:AJ:69:LYS:CD	14:AN:39:ARG:HH22	2.10	0.59
2:AT:464:LEU:HD12	2:AT:509:LYS:HB3	1.85	0.59
32:BM:15:VAL:HG12	32:BM:40:LEU:CG	2.32	0.59
32:BM:8:ILE:HD12	32:BM:18:LEU:CD2	2.31	0.59
18:B3:215:A:P	41:BV:58:ARG:HD2	2.42	0.59
43:BW:71:ARG:NH1	43:BW:72:LEU:HA	2.17	0.59
46:BZ:67:VAL:O	46:BZ:84:LEU:HD13	2.02	0.59
40:BU:70:ILE:HG12	40:BU:80:VAL:HG22	1.85	0.59
18:B3:81:G:C2'	40:BU:75:ARG:HD2	2.33	0.59
6:AE:204:ARG:CG	6:AE:207:GLU:HB2	2.32	0.59
12:AL:63:GLN:HB3	12:AL:64:PRO:CD	2.32	0.59
15:AO:93:LYS:O	15:AO:97:VAL:HG23	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:48:A:H8	18:B3:49:A:O5'	1.84	0.59
4:AC:107:LYS:HB3	4:AC:112:LEU:CD1	2.24	0.59
1:AA:457:C:H2'	1:AA:458:C:C6	2.38	0.59
34:BO:114:ILE:HG21	34:BO:121:CYS:SG	2.42	0.59
18:B3:803:C:O2'	18:B3:804:C:H5'	2.03	0.59
13:AM:15:LEU:HB3	13:AM:66:LEU:HD11	1.84	0.59
1:AA:1316:G:O6	17:AS:49:MET:CB	2.50	0.59
1:AA:1316:G:C2	17:AS:49:MET:SD	2.93	0.59
29:BJ:82:GLY:O	29:BJ:85:VAL:HG22	2.02	0.59
24:BE:56:THR:HG22	24:BE:57:ASN:N	2.18	0.59
24:BE:65:ILE:HG22	24:BE:73:VAL:O	2.03	0.59
36:BQ:27:LEU:HD12	36:BQ:27:LEU:H	1.67	0.59
33:BN:16:ALA:O	33:BN:17:ARG:HG2	2.03	0.59
33:BN:57:ILE:HG13	33:BN:81:ARG:HH12	1.67	0.59
18:B3:449:A:P	23:BD:45:LYS:HG3	2.42	0.59
23:BD:169:LYS:HG3	23:BD:170:ALA:N	2.17	0.59
18:B3:676:C:O2	23:BD:231:SER:O	2.20	0.59
34:BO:107:THR:HG22	34:BO:108:ALA:N	2.18	0.59
34:BO:130:ARG:HE	34:BO:130:ARG:C	2.06	0.59
47:B9:54:TRP:CZ2	47:B9:70:VAL:HA	2.37	0.59
21:BB:56:PRO:CG	47:B9:51:ALA:CB	2.79	0.59
18:B3:1862:C:H5'	21:BB:7:GLN:OE1	1.98	0.59
25:BF:119:THR:O	25:BF:122:THR:HB	2.02	0.59
25:BF:87:ARG:HG2	25:BF:89:LYS:O	2.02	0.59
18:B3:2846:C:H5''	22:BC:174:LYS:HE2	1.84	0.59
28:BI:51:HIS:HA	28:BI:166:ILE:CD1	2.31	0.59
18:B3:247:A:P	26:BG:133:TYR:OH	2.60	0.59
26:BG:119:LYS:CE	26:BG:184:ARG:HD3	2.33	0.59
18:B3:2736:U:H2'	35:BP:61:ARG:HB2	1.82	0.59
35:BP:92:VAL:HA	35:BP:95:ILE:CD1	2.33	0.59
18:B3:2337:G:OP1	29:BJ:102:GLY:C	2.37	0.59
18:B3:2346:C:C2	29:BJ:19:ASN:OD1	2.56	0.59
20:BA:16:LEU:HD11	20:BA:208:SER:N	2.17	0.59
18:B3:1445:G:OP1	39:BT:69:GLU:CA	2.51	0.59
5:AD:99:LEU:HD13	5:AD:101:VAL:HA	1.85	0.59
1:AA:402:G:C4'	5:AD:144:PRO:HB2	2.31	0.59
8:AH:26:ILE:CG2	8:AH:60:ILE:HB	2.33	0.59
1:AA:553:A:O3'	12:AL:43:PHE:N	2.35	0.59
37:BR:60:ALA:H	37:BR:74:MET:HE2	1.66	0.59
18:B3:2560:C:O2'	18:B3:2777:G:C1'	2.50	0.59
18:B3:1243:C:C5'	32:BM:17:ARG:NH1	2.66	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:24:ILE:HD13	27:BH:25:VAL:N	2.16	0.59
27:BH:28:VAL:HG12	27:BH:29:GLY:N	2.15	0.59
27:BH:55:VAL:HG12	27:BH:56:ALA:N	2.17	0.59
27:BH:62:ARG:O	27:BH:63:LYS:HE2	2.03	0.59
35:BP:41:ARG:CD	35:BP:44:VAL:HG11	2.33	0.59
43:BW:71:ARG:HD2	43:BW:72:LEU:N	2.17	0.59
46:BZ:79:ARG:HH22	46:BZ:80:ALA:HB3	1.68	0.59
40:BU:60:ARG:HA	40:BU:60:ARG:CZ	2.33	0.59
1:AA:597:G:H5''	16:AQ:99:TYR:CG	2.38	0.59
1:AA:109:A:H2'	1:AA:326:G:N2	2.18	0.59
7:AG:83:LYS:HE2	7:AG:94:ASN:OD1	2.03	0.59
18:B3:1438:G:N2	18:B3:1684:A:HO2'	2.01	0.59
2:AT:413:ILE:HB	2:AT:427:PHE:HB2	1.84	0.59
4:AC:133:CYS:O	4:AC:156:LEU:HD11	2.02	0.59
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.17	0.59
1:AA:988:G:O4'	1:AA:1014:A:C4'	2.51	0.59
13:AM:26:ILE:HD13	13:AM:30:TYR:CD2	2.37	0.59
1:AA:1298:C:C5'	13:AM:55:HIS:O	2.51	0.59
1:AA:956:U:O2'	17:AS:126:VAL:HG21	2.03	0.59
1:AA:1151:A:C6	10:AJ:57:ARG:NE	2.71	0.59
1:AA:1177:G:C5'	9:AI:106:LYS:N	2.66	0.59
9:AI:88:LEU:HD23	9:AI:104:LEU:CD2	2.32	0.59
19:B4:117:G:O2'	24:BE:69:ILE:HG21	2.00	0.59
24:BE:49:TYR:CE1	24:BE:65:ILE:HA	2.34	0.59
33:BN:46:TYR:C	33:BN:47:LEU:HD22	2.22	0.59
42:B0:83:GLU:HG2	42:B0:84:THR:N	2.18	0.59
42:B0:85:LEU:CG	42:B0:117:ILE:HG21	2.32	0.59
18:B3:1310:U:H5	23:BD:203:GLY:N	2.01	0.59
34:BO:27:LYS:O	34:BO:30:VAL:HG22	2.02	0.59
45:BY:28:VAL:CA	45:BY:30:LYS:HE2	2.32	0.59
21:BB:47:ILE:HG22	21:BB:58:ALA:HA	1.85	0.59
18:B3:693:A:H5''	41:BV:59:TYR:CE1	1.97	0.59
25:BF:180:ILE:H	25:BF:183:LEU:HG	1.68	0.59
18:B3:1206:C:O2	18:B3:1207:A:H1'	2.01	0.59
18:B3:2847:G:P	22:BC:174:LYS:CE	2.89	0.59
22:BC:301:LYS:HD3	22:BC:302:LYS:HZ3	1.67	0.59
28:BI:121:LYS:HB2	28:BI:121:LYS:HZ3	1.67	0.59
28:BI:135:ILE:HD13	28:BI:163:GLN:HE21	1.68	0.59
18:B3:402:U:OP1	31:BL:96:SER:HA	2.03	0.59
35:BP:94:TRP:CD2	35:BP:95:ILE:HG23	2.38	0.59
38:BS:45:ASN:H	38:BS:48:ARG:HH21	1.49	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:401:C:C2	1:AA:622:A:N3	2.70	0.59
1:AA:825:G:N2	8:AH:11:ASN:OD1	2.36	0.59
1:AA:860:A:H2'	1:AA:861:G:O4'	2.03	0.59
3:AB:121:ILE:O	3:AB:121:ILE:HG23	2.03	0.59
5:AD:97:LEU:CD2	5:AD:105:LEU:HD11	2.32	0.59
8:AH:17:GLU:OE1	8:AH:74:ILE:HG23	2.03	0.59
8:AH:52:ILE:HG21	8:AH:61:VAL:HG21	1.83	0.59
18:B3:165:A:P	41:BV:31:ARG:HG2	2.42	0.59
18:B3:1397:C:O2'	35:BP:23:LEU:HB3	2.02	0.59
35:BP:22:TRP:N	35:BP:51:LYS:HB2	2.18	0.59
19:B4:91:C:H2'	19:B4:92:G:O4'	2.03	0.59
18:B3:2460:A:HO2'	46:BZ:60:LYS:CG	2.03	0.59
41:BV:69:LYS:CD	41:BV:69:LYS:H	2.15	0.59
1:AA:518:C:H5''	1:AA:519:C:C6	2.37	0.59
11:AK:55:SER:OG	11:AK:56:PRO:HD2	2.02	0.59
11:AK:40:ARG:HG2	11:AK:65:ASP:HB3	1.85	0.59
1:AA:346:G:C2'	1:AA:347:G:H5'	2.33	0.59
18:B3:2506:A:O2'	18:B3:2507:G:C8	2.40	0.59
4:AC:54:THR:HG21	4:AC:89:ARG:CG	2.33	0.59
2:AT:353:ALA:CB	2:AT:370:LYS:HG2	2.32	0.59
18:B3:2900:G:H2'	18:B3:2901:C:O4'	2.02	0.59
18:B3:807:A:H2'	18:B3:808:A:O4'	2.03	0.59
1:AA:1309:G:C8	13:AM:92:ILE:HA	2.27	0.59
1:AA:1322:C:OP2	13:AM:138:THR:HG23	2.03	0.59
13:AM:132:ARG:HD3	13:AM:145:ARG:CB	2.33	0.59
13:AM:78:HIS:HB3	13:AM:85:PHE:CZ	2.37	0.59
1:AA:1309:G:H1	13:AM:95:GLY:HA3	1.67	0.59
18:B3:618:G:C5	42:B0:48:GLY:HA3	2.38	0.59
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.03	0.59
1:AA:1126:U:C1'	1:AA:1280:A:N6	1.83	0.59
18:B3:1018:A:HO2'	36:BQ:60:LYS:CE	1.90	0.59
18:B3:960:G:N2	19:B4:68:G:OP1	2.36	0.59
19:B4:36:C:C6	24:BE:181:PRO:CA	2.76	0.59
33:BN:109:THR:C	33:BN:110:LYS:HD2	2.23	0.59
33:BN:25:PHE:CZ	33:BN:118:VAL:HG23	2.38	0.59
33:BN:68:ARG:H	33:BN:79:LYS:HB2	1.68	0.59
18:B3:1310:U:P	23:BD:203:GLY:CA	2.65	0.59
18:B3:660:A:OP1	34:BO:89:ASP:OD1	2.20	0.59
18:B3:719:C:H1'	34:BO:73:GLN:CD	2.22	0.59
23:BD:181:LEU:HD22	23:BD:183:SER:O	2.02	0.59
18:B3:1350:U:O3'	23:BD:46:ARG:HB2	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:40:THR:HG22	34:BO:41:ASP:N	2.18	0.59
18:B3:1182:U:H5''	30:BK:104:ILE:N	2.16	0.59
18:B3:1066:U:O3'	25:BF:96:PRO:HG2	2.02	0.59
12:AL:142:LYS:HG3	12:AL:143:PRO:HD3	1.83	0.59
22:BC:114:LYS:HB3	22:BC:115:ARG:NH2	2.16	0.59
22:BC:231:ARG:HG2	22:BC:269:ARG:HH22	1.68	0.59
22:BC:236:LYS:HB2	22:BC:237:LEU:CD2	2.33	0.59
22:BC:303:THR:HG23	22:BC:304:ILE:N	2.18	0.59
22:BC:302:LYS:HE3	22:BC:305:THR:CB	2.32	0.59
22:BC:75:VAL:HG13	22:BC:326:CYS:HB3	1.85	0.59
22:BC:48:TYR:CA	22:BC:78:VAL:HG13	2.31	0.59
22:BC:95:PRO:O	22:BC:96:ARG:HB2	2.03	0.59
31:BL:168:LYS:HD2	31:BL:169:LYS:NZ	2.17	0.59
7:AG:113:ILE:O	7:AG:117:LEU:HD13	2.02	0.59
29:BJ:140:ARG:O	29:BJ:144:LYS:HD3	2.03	0.59
18:B3:2166:G:O6	20:BA:61:PRO:N	2.36	0.59
39:BT:80:ILE:CG2	39:BT:124:ARG:HA	2.30	0.59
10:AJ:72:ASN:CG	14:AN:28:GLY:N	2.54	0.59
10:AJ:71:PRO:N	14:AN:42:PHE:HB2	2.17	0.59
2:AT:465:LYS:HZ1	2:AT:511:LEU:HB3	1.62	0.59
18:B3:2578:G:N3	18:B3:2800:A:H2'	2.15	0.59
27:BH:124:ARG:C	27:BH:124:ARG:HD3	2.23	0.59
18:B3:1243:C:C4'	32:BM:17:ARG:NH1	2.62	0.59
1:AA:39:G:O2'	1:AA:40:C:H5'	2.02	0.59
32:BM:63:PHE:CE2	32:BM:64:ASN:HB2	2.38	0.59
1:AA:124:G:OP1	1:AA:312:C:C1'	2.51	0.59
15:AO:94:ALA:HB2	15:AO:117:ILE:HD12	1.84	0.59
18:B3:195:C:H2'	18:B3:196:G:H5'	1.85	0.59
3:AB:45:HIS:HB2	3:AB:148:LEU:HD22	1.84	0.59
8:AH:103:LEU:CD2	8:AH:124:ILE:HA	2.28	0.59
18:B3:1127:C:HO2'	18:B3:2492:U:C5'	2.05	0.59
18:B3:372:A:H2'	18:B3:373:G:C8	2.38	0.59
7:AG:210:ILE:N	7:AG:210:ILE:HD12	2.18	0.59
18:B3:1189:A:O2'	18:B3:1209:C:C5'	2.50	0.59
22:BC:86:VAL:HG23	22:BC:86:VAL:O	2.03	0.59
9:AI:97:ASP:HA	9:AI:102:ASN:H	1.68	0.58
10:AJ:50:LEU:CD2	10:AJ:93:LEU:HD12	2.33	0.58
33:BN:12:LYS:HA	33:BN:12:LYS:HE3	1.85	0.58
33:BN:111:LEU:HG	33:BN:151:GLU:OE1	2.03	0.58
18:B3:677:C:H5'	23:BD:232:LEU:CB	2.33	0.58
23:BD:151:VAL:HG12	23:BD:152:SER:N	2.13	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:207:VAL:HG21	23:BD:236:GLN:HG2	1.84	0.58
34:BO:116:LYS:CG	34:BO:117:ALA:H	2.14	0.58
31:BL:82:LYS:HE2	46:BZ:49:PHE:CG	2.30	0.58
18:B3:1899:C:H4'	21:BB:224:ILE:O	2.02	0.58
25:BF:146:LEU:O	25:BF:147:VAL:HG13	2.02	0.58
25:BF:177:ILE:HD12	25:BF:178:LEU:H	1.68	0.58
1:AA:190(E):U:C4'	16:AQ:109:HIS:NE2	2.26	0.58
16:AQ:81:ARG:HG2	16:AQ:109:HIS:CE1	2.38	0.58
1:AA:538:G:H5''	12:AL:142:LYS:N	2.18	0.58
18:B3:2093:G:C2	22:BC:257:ALA:C	2.72	0.58
18:B3:2546:U:C2'	22:BC:235:LYS:CE	2.80	0.58
18:B3:2819:C:H2'	18:B3:2820:A:C8	2.38	0.58
18:B3:2837:U:O4'	22:BC:332:LYS:HE3	2.03	0.58
18:B3:2310:G:O2'	28:BI:119:TRP:CE2	2.49	0.58
28:BI:141:LYS:H	28:BI:141:LYS:HD2	1.67	0.58
28:BI:49:CYS:HB2	28:BI:168:SER:HB3	1.85	0.58
18:B3:2722:G:C5'	37:BR:94:TYR:HE2	2.16	0.58
31:BL:158:ARG:CZ	31:BL:159:GLU:H	2.16	0.58
31:BL:161:ARG:HD2	31:BL:164:THR:CA	2.33	0.58
18:B3:2866:U:H4'	18:B3:2867:G:C5'	2.32	0.58
18:B3:1805:G:O5'	18:B3:2875:A:O2'	2.20	0.58
18:B3:1708:C:P	35:BP:81:LYS:H	2.26	0.58
35:BP:84:ARG:HA	35:BP:87:ARG:NH2	2.18	0.58
18:B3:2337:G:C2	29:BJ:127:TYR:CG	2.68	0.58
29:BJ:109:ILE:HG22	29:BJ:110:ASP:N	2.18	0.58
20:BA:67:ILE:HG21	20:BA:77:ALA:HB1	1.83	0.58
18:B3:1677:U:OP2	39:BT:115:PRO:CD	2.43	0.58
1:AA:618:C:OP2	5:AD:140:ILE:O	2.21	0.58
6:AE:153:LEU:CD2	8:AH:98:PHE:N	2.48	0.58
18:B3:1118:A:C5'	18:B3:1227:C:C4	2.71	0.58
27:BH:104:VAL:CG1	27:BH:111:PHE:HD1	2.16	0.58
27:BH:47:LYS:HA	27:BH:47:LYS:HZ1	1.68	0.58
18:B3:2853:U:OP2	22:BC:170:LEU:CG	2.49	0.58
18:B3:905:C:C6	41:BV:11:ARG:NH2	2.71	0.58
41:BV:13:HIS:HD2	41:BV:15:SER:O	1.86	0.58
1:AA:1503:A:H2'	1:AA:1507:A:O5'	2.03	0.58
18:B3:219:G:OP2	18:B3:220:C:H5''	2.03	0.58
43:BW:77:LYS:HG3	43:BW:82:GLU:OE2	2.02	0.58
7:AG:170:ALA:O	7:AG:174:LEU:HD23	2.03	0.58
22:BC:143:ILE:HA	22:BC:146:GLU:HG2	1.84	0.58
20:BA:29:LEU:HB3	20:BA:172:VAL:HG12	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2505:G:OP1	28:BI:75:TYR:CE2	2.56	0.58
20:BA:24:LYS:HD2	20:BA:25:LYS:CB	2.33	0.58
3:AB:17:LEU:CD2	3:AB:17:LEU:H	2.15	0.58
7:AG:91:ARG:HG3	7:AG:92:LEU:HD12	1.84	0.58
1:AA:1021:G:C2	1:AA:1022:G:HI'	2.38	0.58
13:AM:91:ASP:O	13:AM:113:LEU:HD11	2.02	0.58
42:B0:27:ARG:NH1	42:B0:28:VAL:HG12	2.16	0.58
9:AI:100:SER:C	9:AI:105:LYS:CA	2.70	0.58
9:AI:30:VAL:HA	9:AI:66:VAL:HG13	1.85	0.58
18:B3:2296:C:P	36:BQ:5:HIS:C	2.81	0.58
19:B4:36:C:C6	24:BE:181:PRO:HB3	2.38	0.58
24:BE:204:VAL:HG13	24:BE:205:SER:N	2.18	0.58
24:BE:51:LEU:HD12	24:BE:64:ILE:HD13	1.82	0.58
36:BQ:45:ASN:ND2	36:BQ:94:GLU:HG2	2.07	0.58
18:B3:2812:A:C2	18:B3:2814:A:N6	2.69	0.58
18:B3:2662:G:C1'	18:B3:2814:A:N1	2.62	0.58
18:B3:500:G:C1'	33:BN:16:ALA:HB1	2.34	0.58
33:BN:118:VAL:HG22	33:BN:119:ASN:N	2.17	0.58
18:B3:28:G:OP2	18:B3:1319:G:H5'	2.02	0.58
23:BD:229:VAL:HG13	23:BD:230:ALA:N	2.18	0.58
18:B3:1352:A:N9	23:BD:50:ALA:N	2.48	0.58
18:B3:170:U:H4'	31:BL:82:LYS:HD2	1.85	0.58
18:B3:1164:U:H6	30:BK:51:LYS:HB3	1.52	0.58
30:BK:51:LYS:HG3	30:BK:52:GLU:N	2.11	0.58
21:BB:134:ILE:HG13	21:BB:148:ARG:HB2	1.86	0.58
21:BB:183:ARG:HA	21:BB:186:HIS:ND1	2.17	0.58
21:BB:183:ARG:HA	21:BB:186:HIS:CE1	2.38	0.58
21:BB:57:LEU:HB3	21:BB:75:PHE:O	2.03	0.58
25:BF:126:LEU:HD22	25:BF:126:LEU:N	2.18	0.58
18:B3:2653:A:H5''	22:BC:256:PRO:HB3	1.84	0.58
22:BC:101:LEU:HD13	22:BC:145:ARG:HH11	1.68	0.58
37:BR:45:ARG:HG2	37:BR:46:LEU:CD1	2.28	0.58
37:BR:48:ARG:HD3	37:BR:48:ARG:H	1.68	0.58
37:BR:54:LEU:HD22	37:BR:54:LEU:N	2.10	0.58
18:B3:1566:C:H5''	35:BP:57:HIS:ND1	2.17	0.58
18:B3:2736:U:H2'	35:BP:61:ARG:CB	2.25	0.58
18:B3:2333:G:HO2'	29:BJ:113:ILE:CG1	2.04	0.58
18:B3:2165:G:HI1'	20:BA:207:LYS:HE2	1.84	0.58
10:AJ:70:THR:HB	14:AN:40:GLN:N	2.10	0.58
3:AB:31:HIS:CD2	8:AH:21:LYS:CE	2.79	0.58
1:AA:401:C:O5'	5:AD:78:ARG:HG3	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:87:VAL:O	12:AL:87:VAL:HG23	2.03	0.58
1:AA:59:A:H5'	1:AA:388:G:C4	2.34	0.58
37:BR:35:TYR:CE2	37:BR:61:THR:HB	2.38	0.58
18:B3:2559:C:O4'	18:B3:2799:A:O4'	2.21	0.58
32:BM:41:ASN:HD21	32:BM:134:TYR:CB	2.16	0.58
18:B3:1397:C:O2'	35:BP:23:LEU:HD22	2.03	0.58
35:BP:7:LYS:NZ	35:BP:8:ARG:HH11	2.01	0.58
35:BP:9:LEU:N	35:BP:9:LEU:HD23	2.18	0.58
18:B3:2853:U:H4'	22:BC:170:LEU:HD21	1.84	0.58
18:B3:2081:A:C4'	32:BM:69:PRO:CB	2.81	0.58
18:B3:1153:C:C5	18:B3:1155:G:N3	2.25	0.58
1:AA:1340:A:C2'	9:AI:141:TYR:OH	2.49	0.58
46:BZ:28:LYS:HE3	46:BZ:28:LYS:CA	2.25	0.58
18:B3:599:G:O2'	18:B3:600:G:H5'	2.03	0.58
18:B3:279:C:O2'	18:B3:280:C:H5'	2.03	0.58
29:BJ:51:TYR:CE1	29:BJ:58:ILE:HB	2.38	0.58
30:BK:116:MET:CE	30:BK:119:LYS:HE2	2.33	0.58
17:AS:66:ALA:O	17:AS:69:GLU:HG2	2.03	0.58
13:AM:90:ASN:OD1	13:AM:109:LEU:HD22	2.04	0.58
1:AA:1221:G:H1'	17:AS:102:PHE:CB	2.32	0.58
1:AA:1224:G:H4'	17:AS:123:TYR:CZ	2.38	0.58
9:AI:99:GLN:OE1	9:AI:113:ARG:HB2	2.03	0.58
9:AI:48:TYR:CD1	9:AI:84:ILE:HD13	2.38	0.58
19:B4:51:A:C4	24:BE:58:LYS:CD	2.84	0.58
19:B4:36:C:C5'	24:BE:182:GLY:CA	2.82	0.58
1:AA:335:C:O2'	1:AA:1433:A:H2'	2.03	0.58
18:B3:1308:A:C8	23:BD:202:ARG:NH2	2.70	0.58
23:BD:221:VAL:CG1	23:BD:224:VAL:HG12	2.34	0.58
18:B3:1277:C:C5'	34:BO:35:PHE:CE2	2.84	0.58
18:B3:1180:C:O2	30:BK:110:ILE:HD12	1.99	0.58
30:BK:125:LEU:O	30:BK:129:THR:HG23	2.02	0.58
21:BB:114:ASN:HA	21:BB:125:LEU:O	2.03	0.58
21:BB:117:GLU:O	21:BB:118:LYS:HG2	2.03	0.58
16:AQ:110:VAL:O	16:AQ:110:VAL:HG13	2.03	0.58
18:B3:2654:C:H4'	22:BC:259:VAL:CG2	2.33	0.58
22:BC:112:GLU:CA	22:BC:173:LYS:HB2	2.34	0.58
22:BC:213:MET:O	22:BC:341:LEU:HD22	2.03	0.58
22:BC:279:HIS:CE1	22:BC:327:ILE:HG12	2.38	0.58
18:B3:2806:C:C3'	22:BC:343:THR:HG1	2.13	0.58
18:B3:967:U:O2'	28:BI:35:ASP:OD2	2.21	0.58
28:BI:59:GLN:H	28:BI:128:ARG:HA	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2350:G:N2	29:BJ:116:ASP:OD1	2.36	0.58
29:BJ:44:PRO:HB2	29:BJ:67:HIS:HB2	1.86	0.58
1:AA:46:G:O3'	1:AA:47:C:P	2.61	0.58
2:AT:141:THR:O	2:AT:483:PHE:HE2	1.84	0.58
18:B3:2574:G:O2'	18:B3:2776:A:H4'	2.02	0.58
18:B3:2780:C:H2'	18:B3:2781:U:C6	2.38	0.58
27:BH:61:GLY:H	27:BH:63:LYS:HE3	1.68	0.58
27:BH:62:ARG:HA	27:BH:65:VAL:HB	1.84	0.58
32:BM:13:HIS:NE2	32:BM:121:GLN:HB3	2.17	0.58
1:AA:677:U:C4	11:AK:121:PRO:CB	2.69	0.58
1:AA:675:A:H3'	11:AK:120:VAL:N	2.18	0.58
43:BW:35:ILE:HD13	43:BW:50:LEU:HD22	1.84	0.58
43:BW:72:LEU:HG	43:BW:73:ARG:O	2.03	0.58
40:BU:113:LYS:HD2	40:BU:116:LYS:HZ3	1.65	0.58
1:AA:949:A:P	13:AM:141:THR:O	2.57	0.58
11:AK:16:ALA:HB2	11:AK:78:VAL:HG11	1.84	0.58
18:B3:2251:G:H2'	21:BB:33:TYR:OH	2.02	0.58
6:AE:113:GLY:HA3	6:AE:130:ILE:CG2	2.30	0.58
6:AE:98:LYS:HZ1	6:AE:114:ILE:HD12	1.67	0.58
18:B3:1165:U:C5	30:BK:44:GLU:OE1	2.55	0.58
4:AC:159:SER:HA	4:AC:165:ASP:CG	2.24	0.58
40:BU:89:LYS:HD3	40:BU:93:ALA:H	1.65	0.58
18:B3:574:C:O2'	18:B3:575:G:H5'	2.03	0.58
18:B3:63:U:O2'	18:B3:64:G:H5'	2.02	0.58
18:B3:1473:U:C2	45:BY:40:ALA:HB2	2.39	0.58
18:B3:2361:A:H2'	18:B3:2362:A:C8	2.37	0.58
18:B3:1515:A:H2'	18:B3:1516:C:H6	1.69	0.58
4:AC:58:LEU:HG	4:AC:62:GLY:HA2	1.86	0.58
1:AA:1044:A:C2'	1:AA:1045:C:H5'	2.32	0.58
13:AM:22:VAL:O	13:AM:22:VAL:HG13	2.03	0.58
17:AS:85:ILE:HG23	17:AS:116:LEU:CG	2.33	0.58
18:B3:1414:A:O2'	45:BY:11:HIS:O	2.22	0.58
18:B3:537:G:H4'	42:B0:21:HIS:CE1	2.38	0.58
18:B3:539:G:P	42:B0:23:ASP:HB2	2.42	0.58
1:AA:1176:A:H2'	9:AI:107:ALA:HA	1.81	0.58
18:B3:500:G:C4	33:BN:16:ALA:HB1	2.36	0.58
23:BD:21:LEU:HG	23:BD:22:PRO:HD2	1.83	0.58
18:B3:676:C:H6	23:BD:233:ASN:OD1	1.86	0.58
34:BO:111:ARG:HD2	34:BO:111:ARG:O	2.03	0.58
18:B3:660:A:P	34:BO:89:ASP:OD1	2.61	0.58
23:BD:73:ILE:HG13	23:BD:75:ARG:HB3	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:29:GLU:HB3	47:B9:31:GLN:H	1.68	0.58
21:BB:137:GLY:HA2	21:BB:146:ARG:HG2	1.84	0.58
18:B3:1900:A:OP1	21:BB:225:SER:CA	2.51	0.58
21:BB:48:VAL:O	21:BB:56:PRO:HB3	2.03	0.58
21:BB:83:THR:HG1	47:B9:62:THR:CB	2.15	0.58
18:B3:1285:U:H5''	25:BF:155:ILE:CD1	2.27	0.58
25:BF:179:SER:CA	25:BF:183:LEU:HD11	2.33	0.58
25:BF:91:ILE:HG23	25:BF:91:ILE:O	2.03	0.58
18:B3:1067:A:C4'	25:BF:93:LYS:O	2.51	0.58
18:B3:2828:G:O5'	22:BC:129:PHE:CG	2.54	0.58
22:BC:120:ASN:HB3	22:BC:129:PHE:HD1	1.62	0.58
22:BC:205:ASP:HA	22:BC:208:PHE:CZ	2.38	0.58
22:BC:27:ARG:O	22:BC:27:ARG:HD2	2.03	0.58
22:BC:335:VAL:O	22:BC:335:VAL:HG23	2.03	0.58
18:B3:2806:C:H5''	22:BC:343:THR:CB	2.33	0.58
28:BI:51:HIS:HB2	28:BI:152:LEU:CD2	2.34	0.58
28:BI:44:ASP:HA	28:BI:46:PHE:HE2	1.67	0.58
18:B3:263:U:N3	26:BG:157:ASP:OD2	2.35	0.58
31:BL:25:ARG:HD2	31:BL:26:VAL:HG23	1.86	0.58
18:B3:1808:C:OP1	18:B3:2886:C:P	2.61	0.58
35:BP:81:LYS:CD	35:BP:81:LYS:H	2.16	0.58
29:BJ:163:LYS:HD2	29:BJ:169:ASP:N	2.18	0.58
29:BJ:84:LYS:HG3	29:BJ:84:LYS:O	2.01	0.58
6:AE:153:LEU:HD21	8:AH:97:GLN:CA	2.32	0.58
12:AL:79:ASN:HB3	12:AL:81:LYS:H	1.67	0.58
18:B3:2579:G:C4'	18:B3:2680:A:N9	2.62	0.58
6:AE:90:ARG:HE	6:AE:90:ARG:H	1.51	0.58
6:AE:90:ARG:NE	6:AE:90:ARG:H	2.02	0.58
43:BW:17:LYS:O	43:BW:18:ARG:HG2	2.02	0.58
1:AA:1075:C:OP1	3:AB:102:THR:CB	2.50	0.58
18:B3:2438:G:C8	46:BZ:14:LYS:NZ	2.71	0.58
40:BU:31:LEU:CD2	40:BU:101:PRO:HD2	2.28	0.58
6:AE:163:SER:CB	6:AE:202:LYS:HB2	2.33	0.58
18:B3:906:C:C5	18:B3:1329:A:N3	2.69	0.58
41:BV:70:PRO:HD2	41:BV:108:TYR:CG	2.39	0.58
1:AA:1483:A:H5'	18:B3:1988:C:O2'	2.03	0.58
4:AC:118:ALA:O	4:AC:121:VAL:HG22	2.03	0.58
18:B3:282:C:H1'	18:B3:368:C:H42	1.68	0.58
6:AE:83:LYS:HG3	6:AE:84:PRO:HD2	1.84	0.58
18:B3:2635:A:O2'	18:B3:2636:C:H5'	2.03	0.58
9:AI:126:LYS:HB3	9:AI:126:LYS:HZ2	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:844:A:O4'	33:BN:133:GLY:CA	2.48	0.58
18:B3:541:C:O3'	42:B0:14:THR:OG1	2.21	0.58
1:AA:1250:A:H5''	9:AI:70:GLY:C	2.23	0.58
18:B3:2363:G:H22	36:BQ:8:ARG:HD2	1.65	0.58
24:BE:75:LEU:HD12	24:BE:113:LEU:CG	2.33	0.58
24:BE:208:MET:HB3	24:BE:211:LEU:HD22	1.85	0.58
33:BN:36:ASN:N	33:BN:38:TRP:HD1	2.01	0.58
33:BN:40:LEU:HD12	33:BN:40:LEU:C	2.24	0.58
18:B3:2050:G:N9	33:BN:82:TRP:CZ3	2.65	0.58
18:B3:449:A:N7	18:B3:1349:G:H2'	2.19	0.58
18:B3:672:G:H8	23:BD:214:ILE:HG22	0.81	0.58
18:B3:677:C:H1'	23:BD:231:SER:N	2.16	0.58
34:BO:83:VAL:HG22	34:BO:103:ALA:HB2	1.83	0.58
18:B3:169:A:C3'	46:BZ:49:PHE:CZ	2.83	0.58
47:B9:22:ARG:H	47:B9:22:ARG:NH2	2.01	0.58
47:B9:78:VAL:O	47:B9:78:VAL:HG23	2.04	0.58
25:BF:142:THR:HG22	25:BF:239:VAL:HG11	1.84	0.58
25:BF:159:ARG:HD3	25:BF:166:ALA:HB1	1.85	0.58
25:BF:223:ILE:HG23	25:BF:223:ILE:O	2.04	0.58
44:BX:25:LYS:HZ3	44:BX:25:LYS:HA	1.66	0.58
18:B3:2847:G:C3'	22:BC:173:LYS:HE2	2.33	0.58
22:BC:161:VAL:HG23	22:BC:177:LEU:HD12	1.85	0.58
18:B3:2614:C:H4'	22:BC:240:LYS:C	2.23	0.58
22:BC:301:LYS:HE2	22:BC:302:LYS:HZ2	1.68	0.58
28:BI:51:HIS:HA	28:BI:165:ILE:O	2.04	0.58
28:BI:165:ILE:HG23	28:BI:166:ILE:N	2.18	0.58
37:BR:48:ARG:H	37:BR:48:ARG:CD	2.17	0.58
18:B3:2134:G:O6	18:B3:2258:A:H5''	2.03	0.58
31:BL:22:GLN:HE21	31:BL:25:ARG:CG	2.15	0.58
18:B3:1787:C:O2'	18:B3:2882:G:H3'	2.01	0.58
18:B3:1815:A:C5	18:B3:2734:G:C6	2.78	0.58
35:BP:116:LYS:O	35:BP:119:TYR:HE1	1.87	0.58
38:BS:51:TRP:HZ3	38:BS:56:ARG:NE	2.01	0.58
29:BJ:59:ARG:HB3	29:BJ:59:ARG:CZ	2.32	0.58
20:BA:57:ASN:CG	20:BA:155:ILE:CD1	2.71	0.58
20:BA:67:ILE:HG21	20:BA:77:ALA:HB2	1.84	0.58
18:B3:1673:U:O2	39:BT:90:ASN:HA	2.04	0.58
1:AA:400:C:C2	1:AA:622:A:C2'	2.87	0.58
1:AA:554:C:C5'	12:AL:45:GLY:H	2.15	0.58
12:AL:68:ILE:O	12:AL:68:ILE:HG23	2.04	0.58
37:BR:62:VAL:HG23	37:BR:62:VAL:O	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1119:G:H5'	32:BM:48:ARG:CD	2.32	0.58
32:BM:49:ASN:O	32:BM:53:TYR:HB2	2.03	0.58
32:BM:72:PHE:CB	32:BM:78:ILE:HD12	2.31	0.58
35:BP:52:LYS:HE3	35:BP:52:LYS:N	2.18	0.58
46:BZ:66:LYS:HZ3	46:BZ:86:ARG:NE	2.01	0.58
18:B3:905:C:N4	18:B3:1330:A:N3	2.52	0.58
41:BV:5:THR:HG23	41:BV:6:LYS:N	2.17	0.58
1:AA:404:U:C6	5:AD:19:TYR:CD2	2.91	0.58
2:AT:757:GLU:CG	18:B3:1171:A:O2'	2.50	0.58
21:BB:201:VAL:HB	21:BB:216:GLN:NE2	2.19	0.58
4:AC:139:GLY:HA2	4:AC:147:LYS:O	2.03	0.58
20:BA:120:VAL:HG22	20:BA:121:PRO:CD	2.31	0.58
20:BA:32:VAL:CG1	20:BA:179:LEU:HD21	2.33	0.58
6:AE:177:ILE:O	6:AE:177:ILE:HG23	2.03	0.58
29:BJ:11:LEU:CD2	29:BJ:153:THR:HG23	2.33	0.58
32:BM:61:THR:HG22	32:BM:62:ALA:N	2.18	0.58
18:B3:1515:A:H2'	18:B3:1516:C:C6	2.38	0.58
1:AA:1219:U:H4'	17:AS:59:LYS:CA	2.33	0.58
1:AA:979:C:C2	17:AS:56:PHE:CZ	2.91	0.58
18:B3:638:C:H5"	42:B0:27:ARG:HB3	1.74	0.58
18:B3:622:G:OP2	42:B0:36:LYS:CA	2.43	0.58
24:BE:142:PHE:O	24:BE:172:TYR:HB3	2.03	0.58
18:B3:2413:A:O4'	24:BE:175:HIS:N	2.25	0.58
1:AA:320:C:O2	1:AA:1435:G:O3'	2.16	0.58
33:BN:58:PRO:HG2	33:BN:75:PHE:CE1	2.38	0.58
18:B3:1358:A:H2	23:BD:86:GLN:CB	2.16	0.58
47:B9:31:GLN:HG2	47:B9:32:GLN:H	1.67	0.58
21:BB:167:VAL:CG2	47:B9:74:ALA:O	2.42	0.58
21:BB:138:HIS:HB2	21:BB:141:ASP:HB3	1.86	0.58
21:BB:237:ILE:HG22	21:BB:238:ALA:N	2.19	0.58
25:BF:111:ASN:CG	25:BF:208:ASN:HB2	2.24	0.58
44:BX:25:LYS:HZ2	44:BX:51:ILE:HG13	1.67	0.58
18:B3:71:G:O3'	44:BX:49:LYS:HB2	2.04	0.58
22:BC:92:VAL:HG23	22:BC:101:LEU:CD2	2.34	0.58
18:B3:2846:C:C5'	22:BC:174:LYS:CE	2.76	0.58
22:BC:220:THR:HG22	22:BC:271:TYR:O	2.03	0.58
22:BC:231:ARG:HG3	22:BC:232:TRP:CZ3	2.39	0.58
28:BI:59:GLN:HA	28:BI:127:ALA:O	2.03	0.58
28:BI:86:HIS:O	28:BI:138:VAL:HB	2.04	0.58
28:BI:66:GLU:HA	28:BI:69:ARG:CZ	2.33	0.58
18:B3:1003:U:P	28:BI:90:ARG:HD2	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:119:LYS:CB	26:BG:188:LEU:HD12	2.27	0.58
18:B3:2264:A:C5'	31:BL:92:LYS:HZ1	2.08	0.58
18:B3:1804:A:H2'	18:B3:1805:G:C8	2.39	0.58
29:BJ:113:ILE:HG13	29:BJ:113:ILE:O	2.02	0.58
29:BJ:136:ARG:CZ	29:BJ:137:VAL:HA	2.33	0.58
29:BJ:16:LEU:CD2	29:BJ:75:ALA:HB1	2.33	0.58
8:AH:97:GLN:HB2	8:AH:127:PHE:CZ	2.37	0.58
1:AA:33:A:N1	12:AL:47:SER:OG	2.35	0.58
18:B3:2697:A:H2'	18:B3:2698:G:O4'	2.03	0.58
27:BH:179:ILE:HG13	27:BH:179:ILE:O	2.02	0.58
27:BH:181:VAL:O	27:BH:181:VAL:HG13	2.04	0.58
1:AA:713:G:C6	11:AK:124:SER:HA	2.37	0.58
35:BP:13:VAL:O	35:BP:13:VAL:HG13	2.04	0.58
18:B3:1401:G:P	43:BW:61:ARG:H	2.25	0.58
43:BW:72:LEU:HG	43:BW:73:ARG:N	2.18	0.58
46:BZ:67:VAL:O	46:BZ:84:LEU:HD22	2.02	0.58
1:AA:865:A:H4'	1:AA:1079:G:N3	2.18	0.58
1:AA:559:A:C5	12:AL:36:THR:HG21	2.38	0.58
18:B3:112:G:HO2'	18:B3:114:A:H8	0.66	0.58
1:AA:390:C:H2'	1:AA:391:G:C8	2.38	0.58
1:AA:1339:A:H2'	1:AA:1340:A:O4'	2.04	0.58
20:BA:68:PHE:CZ	20:BA:90:LEU:HD12	2.38	0.58
1:AA:1067:A:O3'	1:AA:1387:G:O2'	2.20	0.58
4:AC:48:ILE:O	4:AC:48:ILE:HG23	2.03	0.58
34:BO:114:ILE:O	34:BO:114:ILE:HG23	2.04	0.58
35:BP:107:LYS:O	35:BP:111:ALA:HB2	2.03	0.58
18:B3:2488:A:H61	18:B3:2534:C:H42	1.50	0.58
1:AA:505:G:H2'	1:AA:506:G:C8	2.38	0.58
29:BJ:146:THR:HG22	29:BJ:147:VAL:N	2.18	0.58
1:AA:1320:C:O2'	13:AM:122:HIS:ND1	2.35	0.58
13:AM:131:LEU:HA	13:AM:132:ARG:NH1	2.18	0.58
1:AA:1305:G:H22	13:AM:40:ARG:NH1	2.01	0.58
1:AA:1318:A:N1	17:AS:82:ASN:CB	2.64	0.58
18:B3:537:G:C2'	42:B0:21:HIS:NE2	2.66	0.58
18:B3:539:G:C6	42:B0:50:ILE:HD12	2.38	0.58
18:B3:618:G:N3	42:B0:41:VAL:HG21	2.18	0.58
18:B3:621:C:H3'	42:B0:36:LYS:CG	2.33	0.58
1:AA:1179:A:OP1	9:AI:116:LEU:CD2	2.51	0.58
9:AI:27:LEU:CD2	9:AI:27:LEU:H	2.17	0.58
9:AI:98:GLU:CB	9:AI:103:GLU:HA	2.33	0.58
24:BE:108:ARG:HA	24:BE:112:ARG:HG2	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:84:THR:O	42:B0:84:THR:HG23	2.04	0.58
23:BD:133:LEU:HD21	23:BD:243:LEU:HB2	1.85	0.58
23:BD:165:VAL:O	23:BD:168:LEU:HG	2.01	0.58
23:BD:215:VAL:HG11	23:BD:218:LEU:HB2	1.85	0.58
18:B3:2121:G:O2'	31:BL:83:PRO:HD3	2.04	0.58
21:BB:155:LYS:CA	21:BB:155:LYS:HE2	2.29	0.58
25:BF:168:ILE:HD13	25:BF:179:SER:N	2.17	0.58
1:AA:190(D):U:H3	16:AQ:111:SER:CA	2.17	0.58
1:AA:130:A:C8	16:AQ:135:ARG:HB3	2.39	0.58
44:BX:18:ALA:HA	44:BX:21:LEU:CD1	2.31	0.58
18:B3:1056:U:O2	18:B3:2494:G:O4'	2.22	0.58
18:B3:2713:G:H5''	37:BR:44:SER:C	2.23	0.58
18:B3:2808:U:O2	22:BC:14:GLY:O	2.21	0.58
22:BC:55:ILE:HG23	22:BC:57:ARG:HG3	1.86	0.58
22:BC:69:ARG:CG	37:BR:89:ASP:HA	2.33	0.58
28:BI:50:VAL:C	28:BI:166:ILE:HD11	2.24	0.58
37:BR:78:VAL:HG21	37:BR:81:GLN:NE2	2.15	0.58
37:BR:92:PHE:CE1	38:BS:20:LEU:CG	2.86	0.58
18:B3:2245:C:C2	18:B3:2246:U:C6	2.81	0.58
18:B3:265:U:H4'	31:BL:55:LYS:CD	2.23	0.58
26:BG:166:PRO:HD3	26:BG:176:TYR:OH	2.04	0.58
35:BP:56:VAL:HG12	35:BP:57:HIS:N	2.18	0.58
18:B3:166:A:C4'	41:BV:30:GLY:HA2	2.33	0.58
18:B3:2334:C:H5	29:BJ:114:LYS:NZ	2.02	0.58
29:BJ:140:ARG:C	29:BJ:142:ARG:HD2	2.24	0.58
29:BJ:39:LEU:HD23	29:BJ:40:SER:N	2.18	0.58
18:B3:1672:G:C8	39:BT:108:LYS:NZ	2.67	0.58
10:AJ:71:PRO:O	14:AN:29:LEU:HD12	2.02	0.58
10:AJ:70:THR:C	14:AN:42:PHE:HB2	2.24	0.58
1:AA:560:U:H4'	1:AA:561:U:H5''	1.86	0.58
1:AA:560:U:C5'	1:AA:563:A:OP1	2.50	0.58
3:AB:32:GLN:HG3	3:AB:35:TYR:HB2	1.85	0.58
1:AA:60:A:H4'	1:AA:61:G:O5'	2.04	0.58
1:AA:65:U:H1'	1:AA:382:A:C6	2.33	0.58
1:AA:66:G:N2	1:AA:69:G:N9	2.51	0.58
18:B3:1244:U:OP1	32:BM:14:LEU:HD12	2.00	0.58
27:BH:99:ILE:HD11	27:BH:114:VAL:CG1	2.27	0.58
1:AA:676:A:N1	11:AK:123:ASP:CB	2.66	0.58
35:BP:21:VAL:CA	35:BP:51:LYS:HB2	2.33	0.58
40:BU:107:THR:O	40:BU:108:LYS:HB2	2.03	0.58
1:AA:21:G:C5'	1:AA:884:U:H1'	2.14	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:126:ALA:O	41:BV:146:LEU:HB2	2.03	0.58
41:BV:26:LYS:HA	41:BV:26:LYS:HZ2	1.67	0.58
15:AO:87:LEU:CD2	15:AO:121:ILE:HG23	2.32	0.58
4:AC:118:ALA:CB	4:AC:149:MET:HE1	2.33	0.58
43:BW:77:LYS:H	43:BW:82:GLU:CG	2.13	0.58
20:BA:68:PHE:HE2	20:BA:116:LEU:HB3	1.68	0.58
19:B4:22:G:O3'	19:B4:23:U:C4'	2.52	0.58
16:AQ:77:THR:HG23	16:AQ:118:VAL:HB	1.86	0.58
15:AO:65:ILE:HG23	15:AO:69:LYS:HB3	1.84	0.58
30:BK:22:VAL:HG13	30:BK:23:GLY:N	2.16	0.58
18:B3:2304:G:C4'	36:BQ:56:PHE:HD1	2.17	0.58
2:AT:585:ARG:NH1	2:AT:842:LEU:HD23	2.19	0.58
24:BE:231:ILE:N	24:BE:231:ILE:HD12	2.17	0.58
1:AA:1317:C:H2'	1:AA:1318:A:O4'	2.03	0.58
13:AM:131:LEU:CD1	17:AS:121:ILE:CG2	2.79	0.58
18:B3:2060:A:H4'	42:B0:25:TYR:HD1	1.57	0.58
9:AI:58:LYS:HB2	9:AI:62:ILE:HG13	1.85	0.58
33:BN:17:ARG:HD3	33:BN:145:ILE:HD11	1.86	0.58
42:B0:72:LYS:HD3	42:B0:90:LYS:CE	2.34	0.58
34:BO:74:GLU:HB2	34:BO:138:LEU:CG	2.32	0.58
41:BV:76:LYS:CA	41:BV:76:LYS:HZ3	2.16	0.58
18:B3:765:G:H5'	23:BD:84:SER:CB	2.33	0.58
18:B3:2274:A:H2'	31:BL:80:TYR:CB	2.32	0.58
30:BK:106:LEU:HD12	30:BK:106:LEU:N	2.18	0.58
47:B9:21:LEU:HA	47:B9:22:ARG:CZ	2.34	0.58
47:B9:32:GLN:CG	47:B9:68:TYR:HB2	2.29	0.58
18:B3:72:C:C5'	44:BX:49:LYS:O	2.51	0.58
44:BX:48:ARG:HA	44:BX:51:ILE:HG22	1.86	0.58
18:B3:107:U:O2'	44:BX:59:ASN:HB3	2.03	0.58
18:B3:1730:G:H5'	18:B3:1731:C:C6	2.38	0.58
18:B3:1060:C:H4'	18:B3:2531:U:H4'	1.86	0.58
18:B3:1733:A:O4'	22:BC:225:PHE:CE1	2.52	0.58
18:B3:2765:C:O2'	22:BC:325:GLY:CA	2.52	0.58
22:BC:49:LYS:N	22:BC:78:VAL:HG13	2.18	0.58
28:BI:135:ILE:HD12	28:BI:135:ILE:H	1.68	0.58
37:BR:95:PHE:CD1	38:BS:21:PHE:CD1	2.92	0.58
18:B3:392:U:H5'	31:BL:195:THR:C	2.24	0.58
41:BV:39:HIS:CB	41:BV:42:ILE:HB	2.34	0.58
19:B4:45:A:H5'	29:BJ:140:ARG:NH1	2.18	0.58
29:BJ:59:ARG:HD2	29:BJ:61:ASN:O	2.04	0.58
4:AC:41:THR:OG1	4:AC:42:PRO:HD2	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:75:ILE:HG21	3:AB:122:VAL:HG23	1.86	0.58
3:AB:172:ILE:HD12	3:AB:172:ILE:H	1.69	0.58
3:AB:13:ALA:CB	3:AB:175:LEU:HD11	2.34	0.58
2:AT:465:LYS:HB3	2:AT:512:SER:O	2.04	0.58
1:AA:1419:G:C2	18:B3:1990:C:C4'	2.70	0.58
9:AI:13:LYS:HZ2	9:AI:75:SER:N	2.02	0.58
18:B3:2578:G:O2'	18:B3:2680:A:C4'	2.52	0.58
18:B3:1243:C:H5'	32:BM:17:ARG:CZ	2.10	0.58
27:BH:102:ASN:N	27:BH:113:GLU:HB3	2.06	0.58
27:BH:92:TYR:CD1	27:BH:179:ILE:HG21	2.27	0.58
1:AA:676:A:N1	11:AK:123:ASP:HB3	2.19	0.58
1:AA:144:G:O4'	1:AA:200:G:OP2	2.21	0.58
35:BP:9:LEU:HB2	35:BP:37:ARG:HH21	1.67	0.58
35:BP:40:ILE:HD12	35:BP:40:ILE:N	2.19	0.58
35:BP:40:ILE:O	35:BP:41:ARG:HG2	2.03	0.58
43:BW:51:ALA:HA	43:BW:53:GLU:HG2	1.86	0.58
46:BZ:72:GLU:CA	46:BZ:79:ARG:HG3	2.33	0.58
40:BU:30:LEU:HD13	40:BU:78:PHE:CZ	2.38	0.58
1:AA:292:G:C2'	1:AA:608:A:C6	2.50	0.58
18:B3:2081:A:O4'	32:BM:69:PRO:HG2	2.03	0.58
18:B3:243:A:O4'	18:B3:377:C:O3'	2.12	0.58
11:AK:15:VAL:HG13	11:AK:81:LYS:HZ2	1.68	0.58
11:AK:26:PHE:HZ	11:AK:28:HIS:HB3	1.64	0.58
15:AO:85:GLU:HB3	15:AO:89:TYR:OH	2.04	0.58
20:BA:121:PRO:CD	20:BA:134:PHE:HE1	2.17	0.58
18:B3:282:C:O2'	18:B3:283:U:H4'	2.03	0.58
4:AC:54:THR:HG23	4:AC:89:ARG:HG2	1.85	0.58
7:AG:157:GLN:HE21	7:AG:157:GLN:HA	1.68	0.58
42:B0:115:LEU:H	42:B0:115:LEU:HD22	1.69	0.58
1:AA:956:U:H4'	17:AS:126:VAL:CG1	2.34	0.58
1:AA:1318:A:N3	17:AS:80:MET:SD	2.77	0.58
42:B0:29:ALA:HB3	42:B0:31:ASN:OD1	2.03	0.58
18:B3:2060:A:O2'	42:B0:24:ARG:HD2	2.01	0.58
7:AG:111:ARG:NH2	9:AI:41:GLU:OE1	2.35	0.58
7:AG:110:VAL:HG21	9:AI:43:LEU:HG	1.83	0.58
36:BQ:89:LEU:HD12	36:BQ:89:LEU:O	2.02	0.58
36:BQ:74:VAL:CG1	36:BQ:91:LEU:HD21	2.33	0.58
18:B3:1428:C:C5'	33:BN:124:GLN:CD	2.70	0.58
33:BN:32:ALA:HB2	33:BN:117:GLN:NE2	2.18	0.58
33:BN:41:THR:O	33:BN:41:THR:HG22	2.03	0.58
34:BO:64:VAL:O	34:BO:64:VAL:HG23	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:170:U:H4'	31:BL:82:LYS:CD	2.33	0.58
18:B3:170:U:P	31:BL:82:LYS:HB2	2.44	0.58
25:BF:151:GLY:HA3	25:BF:162:LEU:CG	2.34	0.58
18:B3:952:G:H5'	36:BQ:14:MET:SD	2.44	0.58
18:B3:72:C:C4'	44:BX:49:LYS:HZ3	2.07	0.58
18:B3:1133:A:N1	18:B3:2500:C:C2	2.72	0.58
22:BC:235:LYS:HE2	22:BC:246:ARG:HH22	1.68	0.58
28:BI:52:LEU:HD11	28:BI:137:SER:CA	2.33	0.58
28:BI:69:ARG:HG3	28:BI:69:ARG:NH1	2.19	0.58
28:BI:69:ARG:HH11	28:BI:69:ARG:C	2.07	0.58
18:B3:2709:G:C3'	37:BR:9:THR:N	2.60	0.58
26:BG:112:ALA:N	26:BG:117:GLU:HB2	2.15	0.58
26:BG:132:LYS:CD	26:BG:137:HIS:HB3	2.31	0.58
26:BG:157:ASP:HB3	26:BG:158:PRO:CD	2.33	0.58
26:BG:151:LEU:N	26:BG:198:ALA:HB1	2.18	0.58
18:B3:1794:G:H5'	35:BP:97:ARG:CD	2.33	0.58
29:BJ:68:VAL:CG1	29:BJ:69:THR:H	2.17	0.58
20:BA:7:SER:HA	20:BA:10:ARG:NE	2.19	0.58
18:B3:123:U:H3'	39:BT:87:MET:HG2	1.83	0.58
5:AD:141:VAL:HG13	5:AD:143:ILE:HG22	1.86	0.58
8:AH:104:THR:OG1	8:AH:125:LEU:HD11	2.04	0.58
8:AH:39:VAL:HG11	8:AH:102:ILE:CD1	2.17	0.58
1:AA:523:A:N6	12:AL:116:ASP:CB	2.62	0.58
2:AT:111:PHE:O	2:AT:484:SER:O	2.22	0.58
2:AT:112:SER:CB	2:AT:537:HIS:CG	2.86	0.58
18:B3:2558:G:O2'	18:B3:2799:A:O2'	2.22	0.58
27:BH:29:GLY:C	27:BH:82:VAL:HG22	2.24	0.58
32:BM:15:VAL:HG23	32:BM:16:GLY:N	2.18	0.58
1:AA:144:G:C6	1:AA:199:G:C4'	2.81	0.58
18:B3:1382:G:H21	43:BW:29:PRO:HD3	1.68	0.58
35:BP:22:TRP:CE2	35:BP:49:ILE:HG23	2.38	0.58
46:BZ:70:ARG:NH2	46:BZ:79:ARG:H	2.01	0.58
41:BV:126:ALA:C	41:BV:146:LEU:HD12	2.24	0.58
41:BV:143:VAL:HG13	41:BV:144:VAL:N	2.18	0.58
42:B0:61:LYS:HE2	42:B0:61:LYS:O	2.02	0.58
1:AA:519:C:H5''	12:AL:67:ALA:CB	2.34	0.58
2:AT:744:TYR:OH	18:B3:1171:A:N3	2.31	0.58
20:BA:114:GLU:HG3	20:BA:138:VAL:C	2.25	0.58
18:B3:290:C:O2'	18:B3:291:C:H5'	2.03	0.58
13:AM:81:ILE:CG1	13:AM:82:PRO:HD2	2.29	0.58
18:B3:1667:A:H2'	18:B3:1668:U:H6	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1195:C:H3'	1:AA:1196:U:C5'	2.33	0.58
1:AA:513:C:O2'	1:AA:514:C:H5'	2.04	0.58
36:BQ:52:MET:HG2	36:BQ:53:PRO:O	2.04	0.58
1:AA:959:A:N7	17:AS:100:LYS:HB3	2.18	0.58
1:AA:1223:C:C5'	17:AS:100:LYS:HD2	2.29	0.58
18:B3:843:A:C3'	33:BN:130:ARG:HG3	2.33	0.58
42:B0:16:LYS:H	42:B0:16:LYS:HZ3	1.50	0.58
18:B3:618:G:C2'	42:B0:41:VAL:HG22	2.29	0.58
9:AI:29:LYS:CD	9:AI:32:GLY:H	2.16	0.58
10:AJ:37:VAL:O	10:AJ:41:ILE:HD13	2.04	0.58
24:BE:81:HIS:HA	24:BE:92:LEU:CD1	2.34	0.58
33:BN:41:THR:HB	33:BN:109:THR:HG23	1.85	0.58
33:BN:35:ILE:CB	33:BN:43:ALA:HB2	2.30	0.58
33:BN:58:PRO:CA	33:BN:80:ALA:HB2	2.30	0.58
42:B0:105:ARG:HH12	42:B0:108:ILE:HG22	1.68	0.58
18:B3:1167:G:P	30:BK:45:ASP:HA	2.39	0.58
47:B9:59:CYS:O	47:B9:61:LYS:HD2	2.04	0.58
21:BB:147:VAL:HG22	21:BB:155:LYS:H	1.69	0.58
21:BB:67:LYS:HE3	21:BB:72:GLU:HG3	1.85	0.58
18:B3:1286:A:P	25:BF:155:ILE:HA	2.44	0.58
44:BX:47:VAL:HG13	44:BX:48:ARG:N	2.18	0.58
28:BI:53:VAL:HG11	28:BI:166:ILE:HG21	1.85	0.58
18:B3:968:G:O2'	28:BI:39:LYS:CD	2.50	0.58
22:BC:260:MET:HE3	32:BM:66:THR:HG23	1.81	0.58
37:BR:92:PHE:HD1	38:BS:20:LEU:CD2	2.08	0.58
29:BJ:59:ARG:HB3	29:BJ:59:ARG:HH11	1.69	0.58
20:BA:55:LEU:HG	20:BA:157:PHE:HA	1.82	0.58
18:B3:2169:C:H5''	20:BA:26:ARG:HG3	1.86	0.58
4:AC:38:VAL:O	4:AC:38:VAL:HG23	2.03	0.58
4:AC:83:ILE:HG22	4:AC:84:VAL:O	2.04	0.58
14:AN:31:ARG:HG3	14:AN:32:LYS:N	2.18	0.58
14:AN:36:ASN:CA	14:AN:41:CYS:HB2	2.34	0.58
5:AD:110:GLN:HG3	5:AD:126:ARG:HA	1.86	0.58
8:AH:30:SER:H	8:AH:33:ILE:CG2	2.17	0.58
1:AA:64:G:C2	1:AA:73:C:C4	2.92	0.58
2:AT:482:LYS:HB2	2:AT:793:PHE:HZ	1.69	0.58
37:BR:27:ASP:O	37:BR:101:VAL:HG23	2.04	0.58
27:BH:165:CYS:HB2	27:BH:178:GLY:HA2	1.85	0.58
27:BH:48:VAL:N	27:BH:53:ILE:HG22	2.19	0.58
18:B3:215:A:H5''	41:BV:58:ARG:HG3	1.83	0.58
35:BP:22:TRP:HE1	35:BP:49:ILE:HD12	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1398:G:P	35:BP:23:LEU:CB	2.83	0.58
35:BP:44:VAL:HG13	35:BP:45:LYS:N	2.19	0.58
40:BU:63:LYS:NZ	40:BU:97:ILE:HD11	2.19	0.58
1:AA:1343:G:H4'	9:AI:137:PHE:CA	2.31	0.58
41:BV:75:ASP:OD2	41:BV:114:LYS:HG3	2.04	0.58
21:BB:206:VAL:O	21:BB:206:VAL:HG13	2.04	0.58
18:B3:521:A:C5'	42:B0:26:HIS:NE2	2.67	0.58
1:AA:303:A:O2'	1:AA:556:C:H5'	2.04	0.58
29:BJ:28:ARG:HG3	29:BJ:29:LEU:N	2.18	0.58
5:AD:61:THR:HG23	5:AD:62:ARG:N	2.19	0.58
1:AA:991:U:O2'	1:AA:992:U:H5'	2.04	0.58
41:BV:34:ALA:HB3	41:BV:43:ASN:HB3	1.86	0.58
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.21	0.58
1:AA:812:C:O2'	1:AA:813:U:P	2.62	0.58
1:AA:457:C:H2'	1:AA:458:C:H6	1.68	0.58
29:BJ:152:LYS:H	29:BJ:152:LYS:HD3	1.67	0.58
4:AC:36:VAL:HG13	4:AC:36:VAL:O	2.03	0.58
42:B0:14:THR:HG23	42:B0:15:LYS:N	2.20	0.57
7:AG:107:LEU:N	7:AG:107:LEU:HD23	2.19	0.57
41:BV:76:LYS:NZ	41:BV:76:LYS:HA	2.19	0.57
18:B3:1360:C:H1'	23:BD:88:ALA:H	1.69	0.57
18:B3:763:C:O2'	23:BD:85:GLY:C	2.42	0.57
18:B3:764:C:N1	23:BD:86:GLN:HG3	2.19	0.57
18:B3:767:A:OP2	23:BD:62:GLU:OE1	2.22	0.57
23:BD:75:ARG:HG2	23:BD:80:GLY:HA2	1.85	0.57
30:BK:18:VAL:HG12	30:BK:19:GLY:N	2.19	0.57
30:BK:37:LEU:HD22	30:BK:62:LEU:HD13	1.85	0.57
21:BB:177:PRO:CB	47:B9:22:ARG:CZ	2.82	0.57
21:BB:55:ALA:HB2	21:BB:129:SER:OG	2.04	0.57
21:BB:28:LEU:HD12	21:BB:29:ARG:HH21	1.67	0.57
18:B3:949:U:O4'	36:BQ:100:LYS:CA	2.49	0.57
25:BF:179:SER:H	25:BF:183:LEU:HD21	1.69	0.57
22:BC:165:ILE:HD13	22:BC:172:GLN:O	2.03	0.57
22:BC:15:PHE:HD2	22:BC:18:ARG:HD2	1.66	0.57
22:BC:214:ILE:HD12	22:BC:340:SER:HA	1.86	0.57
22:BC:239:ARG:HG2	22:BC:239:ARG:O	2.03	0.57
22:BC:282:TYR:CE2	22:BC:324:LYS:HG3	2.38	0.57
22:BC:353:VAL:HG22	22:BC:354:SER:H	1.69	0.57
22:BC:46:LEU:CD1	22:BC:47:GLY:H	2.17	0.57
22:BC:48:TYR:CD2	22:BC:334:ILE:HG23	2.39	0.57
28:BI:31:ILE:O	28:BI:31:ILE:HG23	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1794:G:C2'	35:BP:96:ARG:HG2	2.32	0.57
7:AG:112:ILE:HG23	7:AG:113:ILE:N	2.20	0.57
18:B3:2334:C:O4'	29:BJ:114:LYS:HB2	1.95	0.57
29:BJ:91:ARG:HD3	29:BJ:159:VAL:HG21	1.85	0.57
29:BJ:166:TYR:CD1	29:BJ:167:ASP:HB2	2.39	0.57
29:BJ:33:SER:HA	29:BJ:36:LEU:HD21	1.85	0.57
29:BJ:44:PRO:HG2	29:BJ:68:VAL:N	2.19	0.57
20:BA:56:PRO:HA	20:BA:156:LYS:HG2	1.86	0.57
20:BA:67:ILE:CD1	20:BA:77:ALA:HB2	2.33	0.57
39:BT:69:GLU:O	39:BT:72:MET:HE1	2.03	0.57
4:AC:9:LYS:HB2	4:AC:12:ALA:HB3	1.85	0.57
4:AC:20:LEU:HD21	4:AC:76:PHE:CD1	2.39	0.57
10:AJ:69:LYS:HE2	10:AJ:80:GLU:OE1	2.04	0.57
1:AA:449:C:H5'	5:AD:131:GLN:O	2.04	0.57
18:B3:2579:G:C5'	18:B3:2680:A:H5'	2.34	0.57
27:BH:43:VAL:HG11	32:BM:127:ARG:N	2.18	0.57
35:BP:21:VAL:O	35:BP:21:VAL:HG13	2.03	0.57
1:AA:13:U:H4'	1:AA:914:A:OP2	2.04	0.57
2:AT:749:LYS:CG	18:B3:2508:C:C5	2.87	0.57
41:BV:134:GLU:HB3	41:BV:138:ARG:CD	2.21	0.57
1:AA:118:U:O2	1:AA:122:G:N3	1.95	0.57
1:AA:57:G:H1'	1:AA:368:U:N3	2.17	0.57
4:AC:115:ARG:HA	4:AC:149:MET:CE	2.33	0.57
24:BE:88:ILE:HG12	24:BE:89:THR:H	1.69	0.57
10:AJ:108:ILE:HG23	10:AJ:109:GLU:N	2.14	0.57
7:AG:89:ILE:O	7:AG:89:ILE:HG23	2.04	0.57
18:B3:2907:C:H2'	18:B3:2908:A:O4'	2.04	0.57
46:BZ:88:LYS:HD3	46:BZ:89:HIS:HB2	1.84	0.57
18:B3:703:G:O2'	18:B3:704:C:H5'	2.04	0.57
35:BP:132:LYS:HB3	35:BP:136:ALA:CB	2.34	0.57
1:AA:1330:U:H1'	13:AM:93:THR:HB	1.85	0.57
1:AA:1298:C:O5'	13:AM:57:ARG:NH2	2.38	0.57
18:B3:617:C:C2	42:B0:46:PHE:O	2.57	0.57
9:AI:43:LEU:HD22	9:AI:43:LEU:N	2.19	0.57
9:AI:46:LYS:HB3	9:AI:49:GLU:HG3	1.87	0.57
10:AJ:32:LYS:CE	10:AJ:35:GLU:HB2	2.34	0.57
36:BQ:60:LYS:HB3	36:BQ:76:ILE:HD12	1.86	0.57
1:AA:337:C:H5'	1:AA:1468:A:N1	2.18	0.57
23:BD:149:LEU:HD21	23:BD:248:ILE:HD12	1.85	0.57
18:B3:473:A:OP1	45:BY:48:TRP:CZ2	2.55	0.57
18:B3:1184:A:H5'	30:BK:85:LEU:CD1	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:167:VAL:HG12	21:BB:168:ILE:N	2.19	0.57
18:B3:945:U:H2'	18:B3:946:C:C6	2.38	0.57
19:B4:96:C:C2	25:BF:220:LYS:HE2	2.38	0.57
25:BF:82:LEU:HD13	25:BF:137:TYR:CE2	2.39	0.57
18:B3:953:G:C4'	36:BQ:13:TYR:CE2	2.87	0.57
22:BC:241:THR:HG21	22:BC:247:LYS:CD	2.33	0.57
22:BC:328:PRO:HG2	22:BC:330:ASN:ND2	2.18	0.57
22:BC:334:ILE:HG12	22:BC:335:VAL:N	2.16	0.57
37:BR:93:LEU:HB2	38:BS:21:PHE:CD2	2.39	0.57
18:B3:1469:C:C5'	31:BL:71:LYS:HZ2	2.18	0.57
26:BG:163:VAL:CG2	31:BL:17:VAL:HG21	2.33	0.57
18:B3:1798:C:O5'	35:BP:70:ARG:O	2.21	0.57
18:B3:1805:G:H2'	18:B3:1806:G:H8	1.68	0.57
18:B3:1805:G:C2	18:B3:2883:A:C6	2.92	0.57
18:B3:2334:C:C5'	29:BJ:111:LEU:HA	2.34	0.57
29:BJ:61:ASN:H	29:BJ:61:ASN:HD22	1.51	0.57
20:BA:55:LEU:CA	20:BA:155:ILE:HG22	2.34	0.57
20:BA:34:LEU:HD11	20:BA:36:VAL:CG2	2.34	0.57
10:AJ:70:THR:C	14:AN:42:PHE:CB	2.70	0.57
1:AA:31:G:N3	1:AA:47:C:P	2.76	0.57
1:AA:59:A:C5'	1:AA:388:G:C4	2.87	0.57
18:B3:2580:G:H5'	18:B3:2680:A:N6	2.14	0.57
27:BH:156:GLN:HA	27:BH:159:ALA:HB3	1.87	0.57
27:BH:75:VAL:HB	27:BH:78:MET:HE3	1.86	0.57
32:BM:11:LYS:HD3	32:BM:36:ARG:NH1	2.12	0.57
1:AA:679:C:N1	11:AK:125:THR:OG1	2.36	0.57
1:AA:1075:C:H5'	3:AB:102:THR:HG22	1.86	0.57
46:BZ:27:TYR:HD1	46:BZ:70:ARG:H	1.52	0.57
46:BZ:84:LEU:C	46:BZ:86:ARG:HH12	2.08	0.57
1:AA:634:C:C6	16:AQ:92:TYR:HE2	2.22	0.57
40:BU:31:LEU:HD22	40:BU:101:PRO:HG2	1.85	0.57
41:BV:11:ARG:HH11	41:BV:11:ARG:HB3	1.67	0.57
1:AA:545:C:O5'	5:AD:30:LEU:CD1	2.51	0.57
5:AD:66:ASP:HB2	5:AD:67:PRO:HD2	1.85	0.57
47:B9:16:ARG:HG2	47:B9:17:TYR:N	2.19	0.57
15:AO:82:GLU:HA	15:AO:85:GLU:HB2	1.85	0.57
4:AC:172:ARG:HB3	4:AC:183:ILE:HG22	1.86	0.57
4:AC:101:ALA:HB1	4:AC:183:ILE:HG23	1.86	0.57
20:BA:123:LEU:N	20:BA:123:LEU:HD22	2.18	0.57
32:BM:88:SER:HA	32:BM:90:LYS:NZ	2.19	0.57
2:AT:103:ILE:HD12	2:AT:122:THR:CG2	2.31	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:736:C:H2'	1:AA:737:A:C8	2.39	0.57
47:B9:76:ALA:O	47:B9:77:THR:HG23	2.03	0.57
26:BG:178:ILE:N	26:BG:178:ILE:HD12	2.18	0.57
1:AA:1320:C:O2'	13:AM:122:HIS:NE2	2.32	0.57
19:B4:26:C:O2'	19:B4:27:C:H5'	2.04	0.57
24:BE:64:ILE:HD11	24:BE:144:VAL:CG2	2.34	0.57
19:B4:69:U:C2'	24:BE:14:SER:HG	2.06	0.57
24:BE:55:PHE:CZ	24:BE:158:ARG:HB2	2.39	0.57
19:B4:6:C:C1'	24:BE:72:ASP:OD2	2.51	0.57
42:B0:85:LEU:O	42:B0:85:LEU:HD23	2.04	0.57
18:B3:1349:G:OP1	23:BD:35:HIS:O	2.22	0.57
18:B3:660:A:H4'	18:B3:661:G:O5'	2.05	0.57
18:B3:750:A:H4'	23:BD:113:ASN:H	1.69	0.57
23:BD:144:ILE:HD13	23:BD:144:ILE:C	2.25	0.57
18:B3:672:G:OP1	23:BD:213:GLY:HA2	2.03	0.57
23:BD:50:ALA:HB2	23:BD:104:THR:H	1.67	0.57
34:BO:36:LEU:HD22	34:BO:130:ARG:NH1	2.19	0.57
18:B3:707:C:H41	34:BO:72:LYS:CE	2.17	0.57
34:BO:64:VAL:C	34:BO:92:ARG:HH21	2.08	0.57
23:BD:68:ARG:NH2	23:BD:69:ALA:H	2.03	0.57
18:B3:1358:A:N6	23:BD:88:ALA:HA	2.19	0.57
45:BY:27:HIS:C	45:BY:30:LYS:HD3	2.24	0.57
18:B3:772:G:N2	45:BY:46:TYR:HE2	2.02	0.57
30:BK:71:ALA:CB	30:BK:115:GLN:HA	2.34	0.57
21:BB:57:LEU:CB	21:BB:74:ILE:HG23	2.34	0.57
18:B3:945:U:H2'	18:B3:946:C:H6	1.69	0.57
1:AA:190(D):U:C4	16:AQ:112:PRO:HD3	2.37	0.57
1:AA:190(E):U:O5'	16:AQ:109:HIS:CD2	2.51	0.57
1:AA:190(D):U:H3	16:AQ:111:SER:HB2	1.67	0.57
16:AQ:138:VAL:O	16:AQ:138:VAL:HG23	2.04	0.57
1:AA:537:G:H4'	12:AL:143:PRO:HG2	1.85	0.57
18:B3:68:U:C4'	44:BX:51:ILE:O	2.52	0.57
18:B3:1749:U:H4'	22:BC:239:ARG:HH22	1.69	0.57
22:BC:117:PHE:HB3	22:BC:118:TYR:CD1	2.39	0.57
22:BC:127:LYS:CE	22:BC:128:ALA:H	2.17	0.57
22:BC:42:LEU:HD11	22:BC:85:VAL:HG11	1.86	0.57
28:BI:134:ILE:CD1	28:BI:134:ILE:H	2.13	0.57
28:BI:151:GLY:CA	28:BI:154:ARG:HE	2.15	0.57
28:BI:54:SER:CA	28:BI:135:ILE:HD11	2.33	0.57
18:B3:264:G:H1	26:BG:137:HIS:CD2	2.23	0.57
26:BG:148:LYS:HB2	26:BG:149:LEU:HD22	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:32:LYS:HA	31:BL:32:LYS:CE	2.24	0.57
20:BA:67:ILE:CD1	20:BA:144:LEU:HD21	2.34	0.57
18:B3:2165:G:C2'	20:BA:33:GLU:CG	2.79	0.57
18:B3:2167:A:H61	20:BA:60:ARG:NH2	1.95	0.57
4:AC:7:LYS:O	4:AC:10:LEU:HD22	2.03	0.57
3:AB:76:SER:HB3	3:AB:85:VAL:HB	1.84	0.57
1:AA:64:G:O2'	1:AA:96:G:C6	2.56	0.57
27:BH:20:ILE:HG23	27:BH:47:LYS:HE2	1.84	0.57
27:BH:89:LYS:HG3	27:BH:144:ILE:O	2.04	0.57
32:BM:14:LEU:HD12	32:BM:17:ARG:HD2	1.85	0.57
32:BM:11:LYS:HA	32:BM:39:GLU:O	2.05	0.57
46:BZ:24:VAL:HG12	46:BZ:71:LEU:HD11	1.87	0.57
18:B3:881:C:C2	45:BY:7:PHE:HE2	2.19	0.57
1:AA:124:G:C5'	1:AA:290:C:C2	2.53	0.57
11:AK:38:ILE:HG21	11:AK:69:LYS:HB2	1.86	0.57
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.39	0.57
18:B3:396:U:O2'	18:B3:418:C:H4'	2.05	0.57
1:AA:142:G:N2	1:AA:221:C:O2	2.36	0.57
4:AC:163:VAL:HG13	4:AC:163:VAL:O	2.04	0.57
1:AA:1220:G:P	17:AS:80:MET:CB	2.92	0.57
1:AA:1309:G:N1	13:AM:96:LYS:N	2.49	0.57
1:AA:1226:C:N1	17:AS:126:VAL:O	2.37	0.57
42:B0:42:VAL:CG2	42:B0:49:ASN:HD22	2.17	0.57
18:B3:2414:A:H2'	18:B3:2415:A:C8	2.40	0.57
36:BQ:63:VAL:H	36:BQ:77:ASN:HB3	1.70	0.57
18:B3:1310:U:O4	23:BD:202:ARG:N	2.37	0.57
18:B3:1342:C:O2'	18:B3:1343:C:H5'	2.02	0.57
18:B3:448:G:N2	23:BD:47:GLN:HB2	2.18	0.57
45:BY:32:THR:CB	45:BY:38:TYR:HB2	2.33	0.57
18:B3:1182:U:C4'	30:BK:143:VAL:OXT	2.20	0.57
18:B3:1874:U:C4	21:BB:124:ALA:CB	2.80	0.57
21:BB:177:PRO:HG3	47:B9:25:VAL:HG21	1.85	0.57
41:BV:63:GLN:HG3	41:BV:64:GLN:O	2.04	0.57
19:B4:97:U:H3	25:BF:220:LYS:CG	2.18	0.57
25:BF:151:GLY:HA3	25:BF:162:LEU:HD11	1.86	0.57
25:BF:179:SER:N	25:BF:183:LEU:HD21	2.20	0.57
18:B3:106:A:C5'	44:BX:60:GLU:OE2	2.49	0.57
18:B3:2828:G:OP2	22:BC:129:PHE:CD1	2.57	0.57
18:B3:2546:U:C2'	22:BC:235:LYS:CG	2.81	0.57
22:BC:26:ALA:HA	22:BC:27:ARG:CZ	2.34	0.57
28:BI:12:GLN:OE1	28:BI:128:ARG:HD2	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:175:G:H1	31:BL:85:ASN:ND2	2.01	0.57
26:BG:108:LEU:H	26:BG:108:LEU:CD2	2.18	0.57
31:BL:114:VAL:HG21	31:BL:116:ASN:ND2	2.18	0.57
31:BL:130:GLU:O	31:BL:131:VAL:HG23	2.05	0.57
18:B3:1597:A:O2'	35:BP:94:TRP:HH2	1.76	0.57
35:BP:114:ILE:CG2	35:BP:119:TYR:HB3	2.34	0.57
35:BP:138:VAL:O	35:BP:141:ILE:HB	2.05	0.57
29:BJ:67:HIS:C	29:BJ:68:VAL:HG23	2.25	0.57
18:B3:2165:G:C1'	20:BA:207:LYS:HE2	2.27	0.57
18:B3:1446:U:P	39:BT:70:THR:N	2.78	0.57
18:B3:1506:U:H6	18:B3:1506:U:H5'	1.67	0.57
39:BT:94:ILE:HD13	39:BT:121:ALA:CB	2.35	0.57
39:BT:72:MET:HA	39:BT:75:VAL:CG2	2.34	0.57
1:AA:12:U:O2'	1:AA:526:C:H5''	2.04	0.57
1:AA:24:U:OP1	12:AL:39:LYS:CD	2.53	0.57
1:AA:552:U:O2'	12:AL:48:HIS:HA	2.03	0.57
1:AA:64:G:O2'	1:AA:96:G:C5	2.58	0.57
37:BR:31:ALA:HB1	37:BR:32:ARG:CZ	2.34	0.57
27:BH:13:PRO:HD2	27:BH:16:VAL:HG22	1.86	0.57
27:BH:25:VAL:HG22	27:BH:26:LYS:H	1.69	0.57
27:BH:84:LYS:HG3	27:BH:84:LYS:O	2.05	0.57
32:BM:38:GLU:O	32:BM:137:LEU:HB3	2.04	0.57
18:B3:2382:A:H4'	46:BZ:12:LYS:CB	2.34	0.57
18:B3:2457:U:O2'	46:BZ:84:LEU:HG	2.05	0.57
1:AA:1343:G:C4'	9:AI:136:ARG:O	2.53	0.57
1:AA:499:A:C2'	1:AA:500:G:H5'	2.33	0.57
1:AA:404:U:O2'	5:AD:23:ARG:CZ	2.47	0.57
41:BV:97:THR:HG23	41:BV:123:ILE:O	2.05	0.57
41:BV:80:LEU:HD23	41:BV:80:LEU:C	2.25	0.57
18:B3:2385:G:H22	36:BQ:69:LYS:NZ	2.02	0.57
18:B3:219:G:H4'	46:BZ:52:GLN:CG	2.29	0.57
20:BA:32:VAL:HG11	20:BA:179:LEU:HD23	1.85	0.57
8:AH:47:GLY:O	8:AH:48:GLU:HB2	2.04	0.57
1:AA:107:G:H8	1:AA:378:G:O2'	1.87	0.57
18:B3:2755:G:H5''	38:BS:38:SER:CB	2.34	0.57
1:AA:1021:G:H2'	1:AA:1022:G:O4'	2.04	0.57
29:BJ:119:ILE:HD13	29:BJ:119:ILE:C	2.25	0.57
1:AA:1309:G:N2	13:AM:96:LYS:HB2	2.18	0.57
1:AA:1278:U:C5'	1:AA:1279:A:O4'	2.53	0.57
33:BN:17:ARG:HD3	33:BN:145:ILE:HG13	1.86	0.57
18:B3:2121:G:O2'	31:BL:83:PRO:HD2	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:24:ARG:HG3	45:BY:25:SER:N	2.15	0.57
18:B3:1853:C:C4'	21:BB:237:ILE:HB	2.33	0.57
18:B3:795:G:C2'	18:B3:817:G:N2	2.64	0.57
21:BB:149:LEU:HB2	21:BB:151:SER:O	2.04	0.57
21:BB:113:SER:C	21:BB:164:VAL:HG22	2.25	0.57
21:BB:127:ARG:O	21:BB:168:ILE:HG21	2.04	0.57
21:BB:187:LYS:HA	21:BB:190:LEU:HD13	1.86	0.57
1:AA:190(D):U:N3	16:AQ:111:SER:CB	2.68	0.57
44:BX:11:THR:HG22	44:BX:12:LYS:HD3	1.86	0.57
44:BX:19:SER:H	44:BX:21:LEU:HD22	1.68	0.57
18:B3:1056:U:O3'	28:BI:8:CYS:HB3	2.05	0.57
22:BC:46:LEU:HD23	22:BC:336:THR:HG22	1.86	0.57
22:BC:49:LYS:HD2	22:BC:50:ALA:N	2.19	0.57
18:B3:2311:A:C2'	28:BI:22:TYR:CE1	2.87	0.57
26:BG:117:GLU:HG3	26:BG:213:LEU:CD1	2.33	0.57
31:BL:168:LYS:O	31:BL:171:ARG:HB3	2.04	0.57
35:BP:118:LEU:N	35:BP:118:LEU:HD12	2.19	0.57
19:B4:44:A:O3'	29:BJ:140:ARG:HD3	2.04	0.57
18:B3:2165:G:C2'	20:BA:33:GLU:CB	2.80	0.57
18:B3:1676:G:O3'	39:BT:115:PRO:CG	2.52	0.57
18:B3:123:U:N1	39:BT:88:LYS:CE	2.68	0.57
4:AC:38:VAL:HG12	4:AC:47:VAL:HG22	1.85	0.57
3:AB:176:LEU:C	3:AB:176:LEU:HD12	2.25	0.57
1:AA:860:A:HO2'	8:AH:18:LYS:HD2	1.69	0.57
3:AB:139:ASN:O	8:AH:68:LEU:HG	2.04	0.57
12:AL:112:LYS:CG	12:AL:121:ARG:HA	2.27	0.57
1:AA:363:A:H1'	12:AL:48:HIS:C	2.24	0.57
27:BH:165:CYS:SG	27:BH:178:GLY:HA3	2.44	0.57
32:BM:76:SER:O	32:BM:103:VAL:HG21	2.05	0.57
32:BM:136:THR:O	32:BM:137:LEU:HG	2.05	0.57
43:BW:48:VAL:HG22	43:BW:49:ARG:N	2.19	0.57
46:BZ:25:THR:HG23	46:BZ:27:TYR:N	2.20	0.57
18:B3:905:C:H41	41:BV:9:LYS:HG3	1.69	0.57
1:AA:405:U:C5'	5:AD:37:LYS:CE	2.83	0.57
41:BV:75:ASP:OD2	41:BV:114:LYS:HE3	2.05	0.57
29:BJ:8:MET:HG3	29:BJ:9:ARG:NE	2.18	0.57
28:BI:24:ARG:HG2	28:BI:25:ALA:N	2.17	0.57
1:AA:740:U:H5'	15:AO:100:HIS:ND1	2.19	0.57
26:BG:193:THR:HG22	26:BG:194:SER:N	2.19	0.57
2:AT:454:ILE:HG13	2:AT:455:GLY:N	2.19	0.57
18:B3:1280:A:H3'	18:B3:1280:A:OP1	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1064:U:H2'	18:B3:1065:G:C8	2.39	0.57
17:AS:58:LYS:CE	17:AS:80:MET:HG3	2.28	0.57
18:B3:1692:C:O4'	33:BN:129:TYR:CG	2.53	0.57
42:B0:19:ARG:HH11	42:B0:20:HIS:N	2.02	0.57
42:B0:35:GLN:HG2	42:B0:43:ARG:CB	2.34	0.57
1:AA:1177:G:C4	9:AI:106:LYS:CD	2.88	0.57
10:AJ:106:ILE:HG13	10:AJ:106:ILE:O	2.04	0.57
19:B4:6:C:C2	24:BE:48:LYS:NZ	2.72	0.57
24:BE:106:ALA:CA	24:BE:110:LEU:HB2	2.35	0.57
36:BQ:35:LYS:O	36:BQ:36:VAL:HG12	2.04	0.57
42:B0:79:VAL:HG21	42:B0:108:ILE:HD13	1.86	0.57
34:BO:60:PRO:CG	34:BO:86:THR:HG22	2.33	0.57
18:B3:1167:G:C3'	30:BK:111:GLU:HA	2.34	0.57
18:B3:1900:A:P	21:BB:225:SER:CB	2.93	0.57
21:BB:172:GLY:H	47:B9:68:TYR:HE1	1.50	0.57
25:BF:82:LEU:HD13	25:BF:137:TYR:CD2	2.40	0.57
25:BF:168:ILE:HB	25:BF:179:SER:OG	2.05	0.57
25:BF:195:LYS:HB3	25:BF:201:LEU:HB3	1.86	0.57
16:AQ:87:ARG:CD	16:AQ:104:LYS:HG2	2.32	0.57
1:AA:538:G:P	12:AL:143:PRO:HD3	2.42	0.57
18:B3:2847:G:P	22:BC:173:LYS:HZ1	2.27	0.57
22:BC:81:PRO:HB2	22:BC:82:PRO:HA	1.86	0.57
28:BI:100:ASN:HA	28:BI:112:GLN:CD	2.25	0.57
28:BI:36:LEU:HG	28:BI:37:GLY:H	1.69	0.57
28:BI:31:ILE:HD11	28:BI:65:LEU:HG	1.86	0.57
18:B3:2134:G:C4	18:B3:2258:A:C5	2.72	0.57
31:BL:107:ARG:HA	31:BL:107:ARG:NE	2.12	0.57
31:BL:150:ILE:CD1	31:BL:150:ILE:H	2.15	0.57
31:BL:155:HIS:CE1	31:BL:156:LYS:HB3	2.40	0.57
18:B3:1794:G:OP1	35:BP:97:ARG:CD	2.51	0.57
18:B3:2346:C:C5	29:BJ:22:VAL:HG12	2.39	0.57
14:AN:36:ASN:ND2	14:AN:42:PHE:HA	2.19	0.57
3:AB:135:ALA:HA	3:AB:138:VAL:HG12	1.85	0.57
32:BM:58:ARG:HH11	32:BM:60:ALA:HA	1.69	0.57
11:AK:127:LYS:HD3	11:AK:131:ARG:CD	2.35	0.57
35:BP:3:LEU:HD13	35:BP:32:ALA:N	2.19	0.57
40:BU:59:VAL:HG13	40:BU:59:VAL:O	2.04	0.57
18:B3:903:U:C5	41:BV:14:VAL:HG22	2.39	0.57
11:AK:45:MET:SD	11:AK:61:LEU:HD13	2.44	0.57
29:BJ:54:ARG:HG3	29:BJ:55:THR:N	2.20	0.57
18:B3:629:A:H5"	42:B0:38:ILE:CB	1.83	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1130:A:OP2	1:AA:1130:A:H3'	2.04	0.57
9:AI:50:PRO:HD3	9:AI:115:LEU:CD1	2.35	0.57
1:AA:1147:C:O2'	9:AI:9:PHE:HE1	1.87	0.57
1:AA:336:C:H6	1:AA:1433:A:C2'	2.17	0.57
18:B3:1370:G:H5'	33:BN:63:ASN:HA	1.82	0.57
42:B0:103:LYS:HG2	42:B0:104:ASN:N	2.20	0.57
18:B3:663:C:O3'	23:BD:115:ASN:N	2.29	0.57
34:BO:32:LEU:HD12	34:BO:128:ALA:CB	2.35	0.57
18:B3:773:A:H1'	45:BY:46:TYR:CE2	2.39	0.57
30:BK:65:GLN:CG	30:BK:117:ARG:HH22	2.17	0.57
21:BB:233:LYS:HD2	21:BB:234:ALA:HB2	1.87	0.57
18:B3:1287:A:C2	25:BF:106:ARG:NE	2.72	0.57
19:B4:86:G:P	25:BF:218:LYS:HZ3	2.27	0.57
18:B3:1206:C:H2'	18:B3:1207:A:C1'	2.34	0.57
18:B3:68:U:C5'	44:BX:51:ILE:HD11	2.29	0.57
18:B3:2668:G:C4'	22:BC:128:ALA:HB2	2.22	0.57
18:B3:2669:U:H4'	22:BC:130:THR:HG22	1.85	0.57
28:BI:18:PRO:HG3	28:BI:94:PHE:CD2	2.39	0.57
26:BG:122:GLN:O	26:BG:126:PRO:HD2	2.04	0.57
26:BG:143:GLU:OE2	26:BG:144:ASN:HB3	2.05	0.57
26:BG:150:VAL:HG23	26:BG:176:TYR:CB	2.28	0.57
26:BG:212:LYS:HE2	26:BG:213:LEU:HD21	1.86	0.57
31:BL:159:GLU:OE1	31:BL:162:GLY:HA3	2.05	0.57
31:BL:99:ALA:HA	31:BL:168:LYS:CD	2.34	0.57
18:B3:1805:G:C6	18:B3:2883:A:C4	2.92	0.57
38:BS:51:TRP:HA	38:BS:51:TRP:HE3	1.69	0.57
29:BJ:84:LYS:HD3	29:BJ:167:ASP:OD1	2.05	0.57
20:BA:16:LEU:HD11	20:BA:207:LYS:HA	1.85	0.57
3:AB:119:LEU:HG	3:AB:120:VAL:H	1.69	0.57
3:AB:176:LEU:O	3:AB:180:VAL:HG23	2.04	0.57
5:AD:136:VAL:O	5:AD:136:VAL:HG23	2.04	0.57
2:AT:111:PHE:N	2:AT:483:PHE:CB	2.64	0.57
2:AT:464:LEU:HD11	2:AT:506:GLU:OE2	2.04	0.57
9:AI:11:LYS:N	9:AI:11:LYS:HD3	2.20	0.57
27:BH:106:LYS:HG3	27:BH:107:ASP:OD1	2.04	0.57
27:BH:92:TYR:HD1	27:BH:179:ILE:CG2	2.12	0.57
1:AA:677:U:O2	11:AK:125:THR:O	2.22	0.57
43:BW:66:VAL:HG12	43:BW:67:GLU:N	2.19	0.57
40:BU:70:ILE:HG12	40:BU:80:VAL:HG21	1.85	0.57
1:AA:668:G:HO2'	15:AO:104:ASN:CG	2.08	0.57
1:AA:121:C:C2	1:AA:235:C:C4	2.90	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1340:A:O2'	9:AI:141:TYR:CE2	2.56	0.57
4:AC:102:GLU:CG	4:AC:172:ARG:HD2	2.35	0.57
7:AG:202:LYS:CA	7:AG:205:SER:HB3	2.24	0.57
18:B3:1165:U:C6	30:BK:44:GLU:CD	2.76	0.57
5:AD:54:ARG:HB2	5:AD:54:ARG:NH1	2.19	0.57
2:AT:415:GLY:H	2:AT:425:ASP:HB3	1.70	0.57
13:AM:20:THR:O	13:AM:20:THR:HG22	2.04	0.57
1:AA:1319:A:H8	17:AS:49:MET:SD	2.28	0.57
1:AA:979:C:C1'	17:AS:80:MET:HG2	2.34	0.57
1:AA:1223:C:OP1	17:AS:122:THR:OG1	2.23	0.57
19:B4:28:U:H6	19:B4:28:U:H5''	1.68	0.57
24:BE:184:ASP:H	24:BE:187:THR:CG2	2.17	0.57
33:BN:38:TRP:HE3	33:BN:42:LYS:CG	2.15	0.57
23:BD:181:LEU:HB2	23:BD:203:GLY:N	2.19	0.57
18:B3:721:A:C5'	34:BO:71:LEU:N	2.66	0.57
18:B3:706:G:H22	34:BO:72:LYS:HE2	1.69	0.57
34:BO:81:VAL:HG22	34:BO:101:VAL:CG2	2.34	0.57
18:B3:2274:A:C2'	31:BL:80:TYR:CD2	2.88	0.57
18:B3:1181:A:H3'	30:BK:106:LEU:HG	1.86	0.57
18:B3:1164:U:O4	30:BK:52:GLU:OE1	2.23	0.57
21:BB:111:ILE:HG22	21:BB:167:VAL:H	1.68	0.57
25:BF:181:ASP:HA	25:BF:184:ILE:HD13	1.86	0.57
18:B3:487:G:C3'	40:BU:90:VAL:HB	2.33	0.57
18:B3:2526:C:O2'	18:B3:2527:U:H5'	2.05	0.57
18:B3:2673:U:H1'	22:BC:98:LEU:CD2	2.27	0.57
18:B3:2720:C:O2'	37:BR:92:PHE:O	2.22	0.57
18:B3:2720:C:O4'	37:BR:91:VAL:HG11	2.04	0.57
18:B3:2825:C:H4'	18:B3:2826:G:O5'	2.05	0.57
22:BC:115:ARG:HG2	22:BC:173:LYS:HD2	1.86	0.57
22:BC:231:ARG:HD3	22:BC:232:TRP:N	2.20	0.57
22:BC:226:GLU:HB2	22:BC:269:ARG:HD2	1.87	0.57
22:BC:280:LYS:H	22:BC:324:LYS:CE	2.18	0.57
22:BC:323:VAL:HG13	22:BC:323:VAL:O	2.05	0.57
22:BC:47:GLY:O	22:BC:78:VAL:HG11	2.05	0.57
18:B3:1002:G:HO2'	28:BI:90:ARG:HH22	0.58	0.57
26:BG:196:VAL:O	26:BG:196:VAL:HG23	2.05	0.57
26:BG:128:PRO:CB	26:BG:204:ALA:HB3	2.35	0.57
18:B3:1795:G:OP1	35:BP:100:VAL:CG1	2.53	0.57
18:B3:2734:G:OP1	35:BP:79:LYS:CB	2.52	0.57
18:B3:2334:C:OP1	29:BJ:110:ASP:HB3	2.04	0.57
18:B3:2214:A:H5''	20:BA:83:ASP:CB	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:99:LEU:N	20:BA:99:LEU:HD22	2.20	0.57
10:AJ:72:ASN:O	14:AN:20:CYS:N	2.38	0.57
1:AA:402:G:H4'	1:AA:620:C:C1'	2.29	0.57
1:AA:642:A:N3	8:AH:104:THR:HG22	2.19	0.57
8:AH:74:ILE:O	8:AH:74:ILE:HG23	2.04	0.57
1:AA:364:A:OP1	12:AL:50:LYS:HE2	2.03	0.57
12:AL:120:VAL:O	12:AL:120:VAL:HG23	2.03	0.57
1:AA:70:G:O2'	1:AA:152:A:C4	2.58	0.57
18:B3:2579:G:H4'	18:B3:2680:A:O4'	2.03	0.57
27:BH:42:ASP:N	32:BM:124:ARG:C	2.49	0.57
32:BM:37:ALA:HB1	32:BM:79:PHE:CE1	2.40	0.57
35:BP:13:VAL:HG21	35:BP:41:ARG:HG3	1.86	0.57
46:BZ:60:LYS:HZ3	46:BZ:62:LYS:HB3	1.68	0.57
46:BZ:67:VAL:HG12	46:BZ:68:VAL:N	2.19	0.57
1:AA:634:C:OP1	16:AQ:92:TYR:C	2.43	0.57
40:BU:22:ALA:CB	40:BU:23:PRO:HD3	2.34	0.57
1:AA:1343:G:C5'	9:AI:138:GLN:N	2.62	0.57
18:B3:903:U:P	41:BV:14:VAL:HG23	2.44	0.57
5:AD:48:GLN:HG2	5:AD:49:LEU:N	2.19	0.57
18:B3:897:A:OP1	41:BV:26:LYS:HG3	2.01	0.57
40:BU:14:LYS:HZ3	40:BU:15:ALA:H	1.53	0.57
1:AA:111:G:C4'	1:AA:389:A:O2'	2.53	0.57
21:BB:203:MET:HG3	21:BB:207:ASP:HB3	1.86	0.57
8:AH:81:LYS:HE3	8:AH:123:LYS:CD	2.35	0.57
32:BM:32:ILE:HG13	32:BM:33:VAL:HG13	1.86	0.57
18:B3:1717:A:OP1	35:BP:55:THR:HG23	2.04	0.57
18:B3:1577:U:O2'	18:B3:1578:C:H5'	2.05	0.57
41:BV:85:LYS:HD2	41:BV:85:LYS:O	2.04	0.57
1:AA:1297:C:C6	13:AM:53:ASP:OD1	2.57	0.57
1:AA:1318:A:C2	17:AS:80:MET:SD	2.98	0.57
13:AM:112:ASP:O	13:AM:116:LEU:HD23	2.05	0.57
13:AM:84:TRP:CE3	13:AM:101:LEU:HD21	2.39	0.57
18:B3:616:U:C2'	42:B0:47:ARG:CD	2.78	0.57
1:AA:1257:U:O2'	1:AA:1258:G:OP2	2.20	0.57
9:AI:97:ASP:CB	9:AI:103:GLU:N	2.64	0.57
9:AI:51:LEU:CB	9:AI:58:LYS:HG3	2.32	0.57
19:B4:29:C:H2'	19:B4:30:C:C5'	2.34	0.57
24:BE:47:PRO:HD2	24:BE:67:SER:O	2.05	0.57
18:B3:1333:U:H2'	18:B3:1334:C:C6	2.40	0.57
18:B3:518:G:C5'	18:B3:1338:U:HO2'	1.84	0.57
18:B3:449:A:H61	18:B3:1349:G:C5'	2.17	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:677:C:O4'	23:BD:229:VAL:O	2.22	0.57
18:B3:52:A:N9	18:B3:121:U:O2	2.37	0.57
18:B3:1876:C:O2'	21:BB:131:ASN:ND2	2.38	0.57
21:BB:194:SER:O	21:BB:195:TRP:HE3	1.88	0.57
21:BB:232:GLN:HG3	21:BB:233:LYS:N	2.19	0.57
21:BB:233:LYS:HD2	21:BB:234:ALA:CA	2.35	0.57
25:BF:207:SER:HB2	25:BF:209:PRO:HD2	1.85	0.57
44:BX:44:ILE:HD12	44:BX:47:VAL:HG13	1.84	0.57
44:BX:49:LYS:NZ	44:BX:50:SER:HA	2.20	0.57
18:B3:2913:A:H61	22:BC:123:LYS:CE	2.18	0.57
18:B3:2826:G:C2	22:BC:124:SER:CB	2.81	0.57
22:BC:49:LYS:HZ3	22:BC:50:ALA:HA	1.69	0.57
22:BC:85:VAL:O	22:BC:85:VAL:HG23	2.05	0.57
28:BI:102:MET:O	28:BI:103:LEU:HD13	2.04	0.57
37:BR:78:VAL:HG13	37:BR:78:VAL:O	2.05	0.57
18:B3:402:U:O4'	31:BL:92:LYS:HB3	2.05	0.57
31:BL:63:VAL:HG12	31:BL:64:ARG:N	2.20	0.57
38:BS:45:ASN:O	38:BS:49:ILE:HD12	2.05	0.57
29:BJ:14:GLU:HG2	29:BJ:129:VAL:CG1	2.35	0.57
29:BJ:91:ARG:HG2	29:BJ:163:LYS:HE2	1.87	0.57
29:BJ:20:ILE:HG23	29:BJ:21:SER:O	2.04	0.57
29:BJ:16:LEU:O	29:BJ:70:VAL:HG13	2.05	0.57
29:BJ:91:ARG:HD2	29:BJ:91:ARG:C	2.25	0.57
20:BA:205:VAL:HG12	20:BA:206:VAL:N	2.20	0.57
20:BA:48:ARG:HA	20:BA:159:LEU:HD23	1.86	0.57
6:AE:157:THR:CG2	8:AH:129:TYR:CE1	2.87	0.57
8:AH:26:ILE:HG23	8:AH:27:ARG:N	2.20	0.57
1:AA:523:A:C6	12:AL:113:ALA:CB	2.76	0.57
2:AT:111:PHE:HB2	2:AT:484:SER:C	2.24	0.57
2:AT:137:VAL:O	2:AT:481:MET:CB	2.51	0.57
2:AT:465:LYS:HE2	2:AT:511:LEU:HD12	1.87	0.57
37:BR:64:LYS:C	37:BR:64:LYS:HE3	2.25	0.57
27:BH:12:VAL:CG2	27:BH:13:PRO:HA	2.34	0.57
32:BM:14:LEU:CB	32:BM:17:ARG:HE	2.15	0.57
1:AA:1086:U:H3	1:AA:1099:G:N2	1.90	0.57
40:BU:31:LEU:CD1	40:BU:74:TYR:HB3	2.35	0.57
40:BU:60:ARG:CG	40:BU:61:GLY:H	2.18	0.57
40:BU:86:THR:OG1	40:BU:97:ILE:HG23	2.04	0.57
1:AA:1342:C:O3'	9:AI:139:LYS:CG	2.43	0.57
41:BV:121:PRO:HB3	41:BV:140:ALA:O	2.04	0.57
1:AA:925:G:C4'	1:AA:1399:C:OP2	2.52	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:195:C:H5'	31:BL:178:LYS:CG	2.34	0.57
18:B3:242:A:O3'	31:BL:2:ALA:CB	2.52	0.57
18:B3:269:G:C5'	18:B3:274:G:O2'	2.52	0.57
18:B3:2397:G:C8	41:BV:46:LYS:HE2	2.40	0.57
18:B3:875:A:C2'	21:BB:203:MET:HE1	2.34	0.57
4:AC:31:GLU:CG	4:AC:51:ALA:HB1	2.34	0.57
12:AL:101:GLU:HB2	12:AL:132:LEU:CD2	2.34	0.57
18:B3:446:G:OP2	40:BU:12:ARG:HB2	2.04	0.57
18:B3:1250:C:O2'	18:B3:1251:C:H5'	2.05	0.57
18:B3:138:U:H6	18:B3:140:G:N1	2.03	0.57
1:AA:818:G:C2'	1:AA:819:A:H5''	2.35	0.57
9:AI:114:THR:O	9:AI:114:THR:HG22	2.05	0.57
9:AI:36:THR:HA	9:AI:39:GLU:OE2	2.05	0.57
1:AA:1151:A:OP1	10:AJ:61:LYS:HD3	1.97	0.57
36:BQ:20:ARG:NE	36:BQ:20:ARG:H	2.02	0.57
36:BQ:79:MET:HB2	36:BQ:83:ARG:O	2.05	0.57
33:BN:57:ILE:C	33:BN:80:ALA:HB1	2.25	0.57
23:BD:133:LEU:HD21	23:BD:243:LEU:CB	2.34	0.57
18:B3:1343:C:C1'	23:BD:188:ALA:HA	2.33	0.57
18:B3:1349:G:H3'	23:BD:43:LYS:HB2	1.85	0.57
34:BO:128:ALA:O	34:BO:130:ARG:HD3	2.04	0.57
23:BD:61:ALA:HB3	23:BD:83:ARG:NH1	2.20	0.57
18:B3:1167:G:H2'	30:BK:114:ARG:NH1	2.20	0.57
18:B3:817:G:HO2'	18:B3:818:A:H8	1.53	0.57
47:B9:32:GLN:NE2	47:B9:68:TYR:HD2	2.03	0.57
21:BB:52:GLY:H	21:BB:53:ARG:NH2	2.02	0.57
21:BB:96:ASN:H	21:BB:99:ASN:ND2	2.03	0.57
18:B3:1286:A:OP1	25:BF:155:ILE:CA	2.50	0.57
18:B3:2821:C:OP1	22:BC:141:ALA:HB1	2.05	0.57
18:B3:2846:C:OP1	22:BC:176:HIS:CD2	2.58	0.57
22:BC:212:GLU:O	22:BC:281:ILE:HG22	2.05	0.57
18:B3:2546:U:C2'	22:BC:235:LYS:HE3	2.33	0.57
22:BC:254:TRP:CE3	22:BC:256:PRO:HD2	2.39	0.57
22:BC:52:MET:HB2	22:BC:76:THR:CA	2.27	0.57
28:BI:95:HIS:HB2	28:BI:128:ARG:NH2	2.19	0.57
28:BI:130:ASP:OD1	28:BI:131:ILE:HD12	2.05	0.57
18:B3:2494:G:H5''	28:BI:7:ARG:HD2	1.87	0.57
26:BG:141:LEU:CD1	26:BG:142:ILE:HG23	2.34	0.57
26:BG:151:LEU:C	26:BG:151:LEU:HD12	2.25	0.57
18:B3:392:U:H5'	31:BL:195:THR:O	2.04	0.57
18:B3:1788:U:H2'	18:B3:2881:C:C2	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2348:C:N4	29:BJ:127:TYR:OH	2.35	0.57
18:B3:2214:A:C2	20:BA:106:LYS:HB2	2.32	0.57
20:BA:205:VAL:HG13	20:BA:214:PHE:C	2.25	0.57
20:BA:49:PHE:CE1	20:BA:51:GLY:HA3	2.40	0.57
18:B3:2166:G:C5	20:BA:60:ARG:C	2.78	0.57
5:AD:99:LEU:HD23	5:AD:103:ASP:CA	2.34	0.57
5:AD:150:LEU:N	5:AD:150:LEU:HD12	2.19	0.57
1:AA:551:U:C4'	12:AL:107:PHE:CE2	2.84	0.57
1:AA:59:A:C4'	1:AA:388:G:C2'	2.72	0.57
18:B3:624:U:OP1	41:BV:21:ILE:HG22	2.05	0.57
18:B3:762:C:H5	41:BV:23:LYS:HZ1	1.48	0.57
2:AT:464:LEU:CG	2:AT:510:ARG:HA	2.35	0.57
2:AT:465:LYS:CG	2:AT:515:ASP:H	2.17	0.57
37:BR:76:ALA:HB1	37:BR:101:VAL:O	2.05	0.57
18:B3:2559:C:C5'	18:B3:2799:A:H4'	2.35	0.57
32:BM:40:LEU:HD23	32:BM:40:LEU:O	2.05	0.57
18:B3:1385:G:P	43:BW:36:LYS:CE	2.93	0.57
43:BW:9:ARG:HH22	43:BW:72:LEU:CD1	2.13	0.57
1:AA:1075:C:H5''	3:AB:102:THR:C	2.24	0.57
18:B3:81:G:O3'	40:BU:74:TYR:C	2.40	0.57
18:B3:1300:G:C6	18:B3:1330:A:C6	2.92	0.57
1:AA:668:G:H4'	15:AO:106:LYS:HB2	1.87	0.57
18:B3:1154:A:N3	18:B3:2786:G:N7	2.52	0.57
11:AK:38:ILE:HG12	11:AK:39:ALA:H	1.70	0.57
6:AE:115:LYS:HE3	6:AE:130:ILE:HD13	1.87	0.57
4:AC:136:VAL:HB	4:AC:184:LYS:HB2	1.86	0.57
29:BJ:132:ARG:HH21	29:BJ:133:PRO:HG3	1.70	0.57
28:BI:32:ARG:HG2	28:BI:33:ILE:H	1.69	0.57
1:AA:739:C:HO2'	15:AO:100:HIS:CE1	2.18	0.57
18:B3:1438:G:H21	18:B3:1685:A:H8	1.52	0.57
30:BK:139:VAL:HG13	30:BK:141:CYS:N	2.20	0.57
5:AD:60:LEU:HD21	5:AD:64:GLU:HG3	1.87	0.57
1:AA:411:A:C4	1:AA:413:G:H1'	2.40	0.57
1:AA:1300:G:O3'	13:AM:30:TYR:CE1	2.48	0.56
1:AA:1256:A:C4'	1:AA:1257:U:H5'	2.30	0.56
10:AJ:23:ARG:HB2	10:AJ:117:VAL:CG1	2.34	0.56
24:BE:24:ARG:CG	24:BE:25:GLU:H	2.18	0.56
42:B0:95:GLU:HG3	42:B0:120:THR:HG22	1.85	0.56
18:B3:1315:G:N3	42:B0:107:VAL:HG21	2.20	0.56
23:BD:139:HIS:NE2	23:BD:141:VAL:HG22	2.20	0.56
23:BD:150:VAL:HB	23:BD:251:GLU:CD	2.26	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:81:VAL:HG23	34:BO:101:VAL:HG21	1.86	0.56
18:B3:53:C:O5'	18:B3:121:U:H2'	2.05	0.56
23:BD:73:ILE:HB	23:BD:74:PRO:C	2.24	0.56
47:B9:48:ARG:HB3	47:B9:54:TRP:CE3	2.39	0.56
21:BB:172:GLY:N	47:B9:67:ALA:HB2	2.19	0.56
25:BF:102:LEU:N	25:BF:105:LEU:HD23	2.20	0.56
25:BF:117:LYS:HE2	25:BF:118:VAL:O	2.05	0.56
25:BF:118:VAL:O	25:BF:118:VAL:HG13	2.05	0.56
18:B3:1285:U:O5'	25:BF:155:ILE:HG21	2.04	0.56
22:BC:236:LYS:HB2	22:BC:237:LEU:HD23	1.87	0.56
22:BC:357:TRP:CB	38:BS:15:PRO:CB	2.66	0.56
26:BG:124:ALA:O	26:BG:126:PRO:HD2	2.05	0.56
26:BG:151:LEU:HD11	26:BG:185:LEU:CD2	2.35	0.56
18:B3:1787:C:O2	18:B3:2882:G:C2'	2.53	0.56
18:B3:2347:C:C5'	29:BJ:66:VAL:O	2.52	0.56
20:BA:108:ASN:OD1	20:BA:162:VAL:CB	2.53	0.56
1:AA:402:G:C1'	1:AA:621:A:C5	2.81	0.56
5:AD:82:ARG:HD3	5:AD:104:PHE:CD1	2.39	0.56
1:AA:101:A:O2'	1:AA:102:G:H5'	2.05	0.56
2:AT:137:VAL:C	18:B3:2697:A:H4'	2.23	0.56
18:B3:2699:A:H2'	18:B3:2700:G:O4'	2.05	0.56
18:B3:165:A:H5'	41:BV:31:ARG:H	1.63	0.56
27:BH:104:VAL:HG22	27:BH:105:GLU:N	2.20	0.56
27:BH:129:ARG:HG2	27:BH:156:GLN:HE22	1.70	0.56
1:AA:1505:G:C5	1:AA:1506:U:P	2.92	0.56
1:AA:125:U:H5'	1:AA:291:C:C5'	2.32	0.56
11:AK:40:ARG:HG3	11:AK:41:VAL:H	1.68	0.56
15:AO:73:ILE:O	15:AO:73:ILE:HD13	2.05	0.56
2:AT:369:ILE:HD12	2:AT:401:PHE:HB3	1.86	0.56
25:BF:108:THR:HG23	25:BF:108:THR:O	2.05	0.56
6:AE:85:VAL:HG23	6:AE:85:VAL:O	2.05	0.56
13:AM:100:THR:CG2	13:AM:105:VAL:HG22	2.33	0.56
24:BE:103:LEU:HD13	24:BE:104:LEU:CD2	2.35	0.56
24:BE:35:ARG:HH22	24:BE:38:THR:HG21	1.70	0.56
18:B3:1311:G:C5	23:BD:185:LYS:CB	2.63	0.56
23:BD:221:VAL:CG1	23:BD:224:VAL:H	2.18	0.56
47:B9:70:VAL:HG13	47:B9:71:SER:H	1.69	0.56
21:BB:47:ILE:HD12	47:B9:62:THR:CB	2.29	0.56
18:B3:1067:A:H5'	25:BF:96:PRO:HD3	1.87	0.56
25:BF:178:LEU:HD13	25:BF:182:ASP:HB2	1.87	0.56
1:AA:265:G:H4'	16:AQ:130:ILE:C	2.26	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1054:G:P	28:BI:110:ARG:NH2	2.72	0.56
22:BC:173:LYS:CE	22:BC:174:LYS:H	2.18	0.56
22:BC:199:GLU:HG2	22:BC:199:GLU:O	2.05	0.56
22:BC:274:ARG:NH2	22:BC:329:GLY:HA2	2.20	0.56
22:BC:76:THR:OG1	22:BC:326:CYS:HB2	2.05	0.56
22:BC:40:VAL:HG13	22:BC:41:ALA:N	2.19	0.56
28:BI:48:LEU:HD12	28:BI:142:ASP:HA	1.87	0.56
18:B3:433:C:H4'	31:BL:149:TRP:CD2	2.35	0.56
26:BG:156:VAL:HG12	26:BG:157:ASP:N	2.20	0.56
18:B3:2734:G:OP1	35:BP:79:LYS:NZ	2.28	0.56
38:BS:45:ASN:N	38:BS:48:ARG:HH21	2.03	0.56
18:B3:2338:G:P	29:BJ:122:PHE:N	2.59	0.56
18:B3:124:C:C6	39:BT:88:LYS:HE3	2.21	0.56
27:BH:18:VAL:HG12	27:BH:19:SER:N	2.20	0.56
27:BH:57:VAL:CG1	32:BM:126:LEU:CD1	2.83	0.56
1:AA:712:A:C2	11:AK:124:SER:O	2.58	0.56
1:AA:779:C:O4'	11:AK:132:ARG:CG	2.53	0.56
18:B3:1396:C:O2'	35:BP:2:ASN:CB	2.53	0.56
18:B3:1384:C:O2'	43:BW:50:LEU:HD11	2.05	0.56
18:B3:100:C:C2'	40:BU:24:SER:H	2.15	0.56
40:BU:31:LEU:HD12	40:BU:74:TYR:CB	2.35	0.56
41:BV:134:GLU:O	41:BV:137:ILE:HB	2.04	0.56
18:B3:1267:C:C4'	42:B0:61:LYS:NZ	2.55	0.56
18:B3:194:A:H4'	31:BL:178:LYS:H	1.70	0.56
1:AA:1340:A:H2'	9:AI:141:TYR:OH	2.05	0.56
1:AA:994:A:C5	1:AA:1046:A:C4	2.79	0.56
20:BA:116:LEU:O	20:BA:120:VAL:HG12	2.05	0.56
20:BA:123:LEU:HB2	20:BA:124:LEU:HD12	1.87	0.56
8:AH:80:VAL:HG11	8:AH:124:ILE:HD12	1.85	0.56
2:AT:706:ILE:HB	2:AT:707:PRO:HD3	1.86	0.56
1:AA:987:G:C4	1:AA:1014:A:N3	2.73	0.56
1:AA:987:G:C6	1:AA:1014:A:N3	2.73	0.56
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.41	0.56
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.40	0.56
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.41	0.56
13:AM:26:ILE:CA	13:AM:57:ARG:HD3	2.35	0.56
1:AA:1299:A:C4'	13:AM:27:LYS:H	2.17	0.56
13:AM:86:LEU:HD12	13:AM:88:ARG:H	1.70	0.56
33:BN:134:ARG:CD	33:BN:135:ILE:H	2.15	0.56
9:AI:101:LYS:CA	9:AI:105:LYS:HB2	2.36	0.56
1:AA:1118:C:H4'	9:AI:118:ALA:CB	2.33	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:103:LEU:HD13	24:BE:103:LEU:C	2.25	0.56
24:BE:113:LEU:HD22	24:BE:113:LEU:C	2.25	0.56
19:B4:11:A:C6	24:BE:16:PHE:N	2.69	0.56
24:BE:51:LEU:HB2	24:BE:144:VAL:CG1	2.35	0.56
18:B3:2814:A:OP2	18:B3:2814:A:H3'	2.05	0.56
18:B3:501:G:O3'	33:BN:15:SER:N	2.36	0.56
18:B3:502:A:H5''	33:BN:10:PRO:HB3	1.88	0.56
33:BN:124:GLN:C	33:BN:139:GLU:HG2	2.26	0.56
18:B3:449:A:C4'	18:B3:1306:U:N1	2.54	0.56
18:B3:677:C:C1'	23:BD:229:VAL:O	2.52	0.56
18:B3:677:C:P	23:BD:233:ASN:HA	2.36	0.56
34:BO:129:VAL:O	34:BO:129:VAL:HG13	2.04	0.56
18:B3:1304:U:H2'	18:B3:1305:C:C6	2.40	0.56
23:BD:235:LEU:O	23:BD:239:PRO:HA	2.05	0.56
23:BD:251:GLU:OE1	23:BD:251:GLU:HA	1.95	0.56
18:B3:111:C:H4'	18:B3:118:G:O6	2.05	0.56
18:B3:1181:A:H4'	30:BK:109:ILE:HG12	1.79	0.56
30:BK:41:LYS:HG3	30:BK:42:VAL:N	2.19	0.56
18:B3:1183:C:C1'	30:BK:104:ILE:HA	2.35	0.56
21:BB:149:LEU:HB3	21:BB:150:PRO:CD	2.35	0.56
21:BB:47:ILE:HG22	21:BB:58:ALA:CA	2.35	0.56
47:B9:55:THR:HG21	47:B9:62:THR:N	2.21	0.56
1:AA:190(F):G:N3	1:AA:265:G:P	2.78	0.56
44:BX:24:LEU:O	44:BX:25:LYS:HE2	2.04	0.56
22:BC:237:LEU:HB3	22:BC:238:PRO:CA	2.24	0.56
22:BC:246:ARG:HH11	22:BC:248:VAL:HG22	1.69	0.56
22:BC:284:VAL:HG12	22:BC:285:GLY:N	2.19	0.56
22:BC:341:LEU:HD12	22:BC:344:ASN:HD22	1.70	0.56
18:B3:1733:A:O2'	22:BC:226:GLU:C	2.43	0.56
22:BC:76:THR:HG23	22:BC:326:CYS:CB	2.35	0.56
22:BC:46:LEU:HD23	22:BC:336:THR:CB	2.35	0.56
28:BI:104:SER:HA	28:BI:116:ARG:C	2.26	0.56
18:B3:2709:G:H4'	37:BR:9:THR:N	1.99	0.56
26:BG:149:LEU:CD2	26:BG:210:LEU:HD11	2.31	0.56
31:BL:186:ARG:HG3	31:BL:187:ARG:HH12	1.68	0.56
31:BL:60:ILE:HD13	31:BL:60:ILE:N	2.19	0.56
31:BL:97:LEU:O	31:BL:98:ARG:HG3	2.05	0.56
35:BP:95:ILE:O	35:BP:95:ILE:HG12	2.05	0.56
38:BS:51:TRP:CZ3	38:BS:56:ARG:HG2	2.40	0.56
29:BJ:48:LYS:HG2	29:BJ:49:ALA:N	2.19	0.56
29:BJ:71:ARG:NH1	29:BJ:71:ARG:H	2.03	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2336:G:C5'	29:BJ:101:PHE:CZ	2.87	0.56
29:BJ:31:ARG:HE	29:BJ:34:LYS:CE	2.16	0.56
18:B3:2166:G:H3'	20:BA:60:ARG:HB3	1.87	0.56
20:BA:106:LYS:HG2	20:BA:107:TYR:CE1	2.40	0.56
4:AC:11:VAL:HG13	4:AC:12:ALA:N	2.19	0.56
39:BT:113:VAL:O	39:BT:114:ARG:HG2	2.06	0.56
4:AC:10:LEU:HD23	4:AC:11:VAL:N	2.15	0.56
4:AC:76:PHE:CE2	4:AC:83:ILE:HD11	2.39	0.56
1:AA:401:C:O2	1:AA:622:A:N3	2.36	0.56
3:AB:70:GLU:HG2	3:AB:118:ARG:HG3	1.84	0.56
5:AD:100:LYS:HD2	5:AD:191:ALA:HB3	1.85	0.56
8:AH:125:LEU:HD12	8:AH:125:LEU:N	2.20	0.56
1:AA:402:G:C4	1:AA:621:A:C2	2.94	0.56
1:AA:560:U:O4	1:AA:566:G:N7	2.27	0.56
5:AD:99:LEU:O	5:AD:106:GLU:HB2	2.05	0.56
8:AH:45:TYR:CE2	8:AH:100:TYR:CE2	2.94	0.56
6:AE:153:LEU:CD2	8:AH:97:GLN:CA	2.84	0.56
12:AL:127:VAL:HG13	12:AL:144:ARG:O	2.05	0.56
1:AA:1372:U:C4'	9:AI:74:VAL:HG21	2.25	0.56
27:BH:168:ARG:O	27:BH:168:ARG:HG2	2.06	0.56
18:B3:2561:C:H5'	18:B3:2777:G:O3'	2.04	0.56
18:B3:1241:G:H21	32:BM:86:MET:CG	2.18	0.56
27:BH:7:GLU:CG	27:BH:8:GLN:H	2.16	0.56
32:BM:38:GLU:O	32:BM:40:LEU:HD22	2.05	0.56
35:BP:7:LYS:CE	35:BP:8:ARG:HH11	2.18	0.56
46:BZ:62:LYS:HD2	46:BZ:64:THR:OG1	2.05	0.56
46:BZ:8:LYS:CG	46:BZ:9:THR:H	2.16	0.56
40:BU:48:LEU:HD12	40:BU:106:ILE:HD12	1.87	0.56
40:BU:33:ALA:HB2	40:BU:104:LEU:CD2	2.29	0.56
40:BU:35:LEU:HB3	40:BU:39:LEU:HB3	1.86	0.56
40:BU:70:ILE:CG1	40:BU:80:VAL:HG21	2.36	0.56
40:BU:48:LEU:HD13	40:BU:109:LEU:CD1	2.34	0.56
1:AA:1343:G:H5'	9:AI:137:PHE:C	2.18	0.56
1:AA:294:U:P	1:AA:610:G:C1'	2.91	0.56
41:BV:104:LEU:HD22	41:BV:104:LEU:N	2.20	0.56
41:BV:143:VAL:HG22	41:BV:144:VAL:N	2.16	0.56
1:AA:924:C:O2'	1:AA:1398:A:H3'	2.05	0.56
1:AA:1503:A:HO2'	1:AA:1507:A:P	2.26	0.56
42:B0:63:THR:HG22	42:B0:63:THR:O	2.05	0.56
46:BZ:37:GLN:HA	46:BZ:40:ARG:NE	2.19	0.56
11:AK:47:VAL:CG1	11:AK:52:ASP:HA	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:26:ARG:HB2	3:AB:44:VAL:CG1	2.18	0.56
18:B3:2273:C:OP1	21:BB:1:GLY:HA3	2.05	0.56
4:AC:98:VAL:HG23	4:AC:99:ALA:N	2.20	0.56
18:B3:1522:A:O2'	18:B3:1523:G:H5'	2.05	0.56
32:BM:83:LEU:O	32:BM:87:VAL:HG13	2.05	0.56
32:BM:90:LYS:HG2	32:BM:91:THR:N	2.20	0.56
17:AS:64:LYS:O	17:AS:68:PRO:HD2	2.06	0.56
3:AB:55:LYS:HB3	3:AB:158:ALA:O	2.05	0.56
30:BK:29:ALA:CB	30:BK:30:PRO:HD3	2.35	0.56
20:BA:97:LYS:HA	20:BA:100:ILE:HG22	1.85	0.56
40:BU:89:LYS:O	40:BU:89:LYS:HD2	2.06	0.56
18:B3:1579:C:H2'	18:B3:1580:A:H8	1.68	0.56
18:B3:2157:G:H4'	18:B3:2158:A:OP1	2.05	0.56
18:B3:37:A:H2'	18:B3:38:G:H8	1.70	0.56
4:AC:67:GLU:HG2	4:AC:71:LEU:CD1	2.35	0.56
18:B3:1760:G:N2	35:BP:78:GLY:HA2	2.20	0.56
12:AL:55:GLU:HG3	12:AL:57:LEU:HG	1.86	0.56
30:BK:16:ARG:HA	30:BK:59:THR:HA	1.87	0.56
1:AA:976:G:OP2	1:AA:1358:U:H1'	2.06	0.56
29:BJ:30:THR:O	29:BJ:30:THR:HG23	2.05	0.56
1:AA:1314:C:C4	17:AS:49:MET:C	2.79	0.56
17:AS:90:ILE:CD1	17:AS:112:LEU:HD11	2.36	0.56
42:B0:27:ARG:HH22	42:B0:28:VAL:HA	1.69	0.56
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.41	0.56
9:AI:100:SER:N	9:AI:105:LYS:CA	2.68	0.56
9:AI:98:GLU:CA	9:AI:106:LYS:H	2.19	0.56
10:AJ:61:LYS:CE	10:AJ:86:ILE:HB	2.35	0.56
19:B4:59:C:H2'	19:B4:60:C:C6	2.40	0.56
18:B3:1011:C:O5'	24:BE:15:ARG:NH1	2.38	0.56
24:BE:99:TYR:CE1	24:BE:161:GLY:CA	2.88	0.56
36:BQ:27:LEU:HD12	36:BQ:27:LEU:N	2.20	0.56
36:BQ:75:ILE:HG13	36:BQ:76:ILE:N	2.20	0.56
23:BD:208:TYR:HA	23:BD:248:ILE:CG2	2.35	0.56
18:B3:677:C:C4'	23:BD:256:LYS:CD	2.69	0.56
18:B3:2101:A:H5'	23:BD:66:THR:HA	1.86	0.56
30:BK:48:LYS:HE3	30:BK:107:ASP:OD2	2.05	0.56
18:B3:783:C:H5''	21:BB:18:HIS:HE1	1.70	0.56
47:B9:44:LYS:C	47:B9:44:LYS:HD2	2.24	0.56
16:AQ:124:VAL:HG22	16:AQ:136:PHE:HD2	1.70	0.56
16:AQ:133:THR:HG22	16:AQ:133:THR:O	2.06	0.56
1:AA:190(E):U:O4	16:AQ:134:VAL:N	2.22	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:112:GLU:HG2	22:BC:173:LYS:HA	1.88	0.56
22:BC:18:ARG:HA	22:BC:18:ARG:NE	2.16	0.56
22:BC:243:ARG:HD3	22:BC:243:ARG:N	2.20	0.56
22:BC:49:LYS:HE3	22:BC:332:LYS:CA	2.32	0.56
22:BC:49:LYS:HG2	22:BC:331:ARG:O	2.06	0.56
22:BC:81:PRO:HD3	22:BC:204:VAL:CG1	2.34	0.56
28:BI:40:LYS:HG2	28:BI:41:ALA:H	1.69	0.56
28:BI:91:VAL:HG22	28:BI:92:HIS:N	2.21	0.56
28:BI:97:LEU:HD12	28:BI:97:LEU:C	2.25	0.56
37:BR:9:THR:HG23	37:BR:10:LYS:N	2.21	0.56
31:BL:71:LYS:HD2	31:BL:71:LYS:O	2.06	0.56
20:BA:50:SER:HG	20:BA:154:THR:HG21	1.67	0.56
20:BA:54:LYS:CE	20:BA:153:SER:HB2	2.36	0.56
18:B3:2166:G:C5	20:BA:61:PRO:CD	2.86	0.56
1:AA:620:C:O4'	5:AD:129:ILE:HG21	2.06	0.56
5:AD:91:LYS:O	6:AE:174:GLY:CA	2.43	0.56
1:AA:33:A:C5'	1:AA:365:U:H5'	2.36	0.56
27:BH:118:LEU:N	27:BH:118:LEU:HD22	2.20	0.56
27:BH:41:ILE:O	32:BM:126:LEU:CA	2.51	0.56
27:BH:92:TYR:O	27:BH:93:VAL:HG23	2.06	0.56
18:B3:1103:C:H1'	32:BM:86:MET:HG2	1.86	0.56
35:BP:17:GLY:H	35:BP:20:LYS:NZ	2.02	0.56
35:BP:41:ARG:CZ	35:BP:49:ILE:HG21	2.35	0.56
43:BW:59:TRP:CZ3	43:BW:66:VAL:HA	2.40	0.56
1:AA:877:C:C2'	8:AH:3:SER:HB3	2.35	0.56
1:AA:915:A:C2'	1:AA:916:G:H5'	2.35	0.56
1:AA:438:G:C4'	1:AA:439:A:OP1	2.53	0.56
18:B3:1235:G:C5	32:BM:69:PRO:CD	2.88	0.56
18:B3:2081:A:C2'	32:BM:69:PRO:CB	2.66	0.56
1:AA:597:G:H5'	16:AQ:99:TYR:CD2	2.40	0.56
7:AG:167:VAL:HG23	7:AG:168:ASN:N	2.20	0.56
1:AA:562:C:O2	12:AL:31:LYS:C	2.25	0.56
18:B3:1173:A:P	30:BK:40:LYS:HZ1	2.28	0.56
20:BA:97:LYS:O	20:BA:101:LYS:HG3	2.06	0.56
4:AC:134:GLU:HB3	4:AC:156:LEU:HD21	1.86	0.56
1:AA:958:A:C5	17:AS:101:ALA:HB3	2.36	0.56
13:AM:124:GLY:HA2	13:AM:127:HIS:HD2	1.70	0.56
13:AM:89:GLN:OE1	13:AM:111:ASP:CG	2.43	0.56
1:AA:1290:G:H5'	7:AG:108:LYS:NZ	2.20	0.56
1:AA:1175:G:H2'	9:AI:108:PHE:HB2	1.87	0.56
24:BE:103:LEU:HD21	24:BE:226:TYR:CZ	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:319:G:H1'	1:AA:1434:A:H61	1.71	0.56
18:B3:2047:C:O2'	18:B3:2841:A:H1'	2.06	0.56
33:BN:109:THR:HG22	33:BN:110:LYS:H	1.71	0.56
42:B0:100:ILE:CD1	42:B0:100:ILE:H	2.14	0.56
42:B0:89:THR:C	42:B0:90:LYS:HG2	2.26	0.56
23:BD:133:LEU:HD12	23:BD:137:ARG:NH2	2.17	0.56
34:BO:124:LEU:HG	34:BO:124:LEU:O	2.05	0.56
34:BO:130:ARG:CZ	34:BO:132:PRO:HB3	2.35	0.56
18:B3:2101:A:N7	23:BD:71:ALA:CB	2.69	0.56
47:B9:28:LEU:CD1	47:B9:29:GLU:H	2.17	0.56
47:B9:28:LEU:O	47:B9:29:GLU:HG2	2.06	0.56
21:BB:43:ILE:HG13	21:BB:61:VAL:HG12	1.88	0.56
18:B3:1285:U:C3'	25:BF:155:ILE:HG21	2.26	0.56
46:BZ:54:LYS:CB	46:BZ:55:PRO:HD3	2.35	0.56
18:B3:2654:C:H4'	22:BC:261:TRP:H	1.68	0.56
22:BC:55:ILE:HG12	22:BC:56:VAL:O	2.05	0.56
18:B3:1056:U:H3'	28:BI:109:ASP:CB	2.36	0.56
26:BG:125:SER:H	26:BG:128:PRO:CD	2.18	0.56
31:BL:60:ILE:HG22	31:BL:132:ILE:CG1	2.36	0.56
31:BL:150:ILE:N	31:BL:150:ILE:HD13	2.19	0.56
31:BL:22:GLN:C	31:BL:25:ARG:HG3	2.25	0.56
39:BT:61:VAL:HA	39:BT:86:SER:OG	2.05	0.56
3:AB:146:THR:O	3:AB:160:PRO:HA	2.05	0.56
1:AA:642:A:O2'	8:AH:104:THR:HG21	2.06	0.56
9:AI:12:LYS:HD3	9:AI:78:TYR:CG	2.41	0.56
27:BH:150:SER:HB2	27:BH:152:GLU:HG2	1.86	0.56
27:BH:44:THR:OG1	27:BH:55:VAL:HB	2.06	0.56
27:BH:92:TYR:CA	27:BH:179:ILE:HG22	2.36	0.56
1:AA:920:U:C5'	1:AA:1080:A:C1'	2.71	0.56
1:AA:920:U:C5'	1:AA:1080:A:C8	2.86	0.56
35:BP:40:ILE:HG22	35:BP:41:ARG:CZ	2.36	0.56
43:BW:27:ARG:HB3	43:BW:66:VAL:HG22	1.85	0.56
46:BZ:71:LEU:O	46:BZ:79:ARG:HD3	2.05	0.56
1:AA:877:C:N1	8:AH:3:SER:OG	2.38	0.56
40:BU:33:ALA:CB	40:BU:104:LEU:HD21	2.30	0.56
18:B3:906:C:O2	18:B3:1329:A:C8	2.55	0.56
41:BV:118:PRO:HG2	41:BV:140:ALA:HB3	1.84	0.56
47:B9:36:TYR:HB2	47:B9:46:VAL:CG1	2.20	0.56
20:BA:120:VAL:HG13	20:BA:121:PRO:CD	2.21	0.56
7:AG:202:LYS:H	7:AG:204:SER:C	2.09	0.56
18:B3:281:U:O2'	18:B3:282:C:H5'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:104:LEU:HD23	34:BO:105:ARG:N	2.17	0.56
1:AA:1286:A:C8	1:AA:1287:A:H5"	2.40	0.56
18:B3:1562:C:H3'	18:B3:1563:G:C8	2.40	0.56
1:AA:1094:G:H5"	1:AA:1095:U:H5	1.71	0.56
4:AC:85:LEU:O	4:AC:85:LEU:HD13	2.06	0.56
33:BN:134:ARG:NE	33:BN:134:ARG:HA	2.14	0.56
18:B3:541:C:H5"	42:B0:14:THR:CG2	2.35	0.56
9:AI:98:GLU:N	9:AI:103:GLU:C	2.59	0.56
10:AJ:97:VAL:HG13	10:AJ:98:GLN:N	2.20	0.56
19:B4:30:C:N4	24:BE:57:ASN:HA	2.20	0.56
36:BQ:64:VAL:HG23	36:BQ:74:VAL:HG22	1.88	0.56
33:BN:9:ASN:ND2	33:BN:11:ALA:HB3	2.20	0.56
33:BN:30:GLU:HG2	33:BN:81:ARG:NH2	2.21	0.56
33:BN:35:ILE:HG12	33:BN:35:ILE:O	2.05	0.56
33:BN:76:GLY:O	33:BN:77:VAL:HG13	2.06	0.56
33:BN:94:LEU:C	33:BN:94:LEU:HD22	2.26	0.56
42:B0:106:VAL:HA	42:B0:109:LEU:CB	2.33	0.56
18:B3:1310:U:C4	23:BD:181:LEU:CD1	2.88	0.56
18:B3:706:G:N2	34:BO:72:LYS:CE	2.68	0.56
18:B3:1305:C:C2'	23:BD:194:ARG:HH21	2.11	0.56
23:BD:257:LEU:HG	23:BD:257:LEU:O	2.06	0.56
18:B3:890:C:O2	45:BY:48:TRP:CA	2.53	0.56
18:B3:1164:U:C1'	30:BK:51:LYS:CB	2.73	0.56
21:BB:113:SER:H	21:BB:164:VAL:CG2	2.18	0.56
21:BB:176:LYS:HA	21:BB:176:LYS:HZ2	1.70	0.56
21:BB:226:ARG:HD2	21:BB:227:GLY:N	2.21	0.56
22:BC:114:LYS:CB	22:BC:119:LYS:HE2	2.36	0.56
22:BC:161:VAL:CG2	22:BC:177:LEU:HB3	2.28	0.56
22:BC:213:MET:O	22:BC:214:ILE:HD13	2.05	0.56
18:B3:2672:C:C5'	22:BC:31:PHE:CZ	2.82	0.56
22:BC:341:LEU:HD12	22:BC:344:ASN:ND2	2.21	0.56
18:B3:2861:G:O2'	22:BC:364:PHE:HE1	1.88	0.56
28:BI:56:GLU:O	28:BI:131:ILE:HA	2.06	0.56
18:B3:263:U:O4'	26:BG:161:LEU:CD1	2.53	0.56
26:BG:162:VAL:O	26:BG:162:VAL:HG13	2.06	0.56
31:BL:135:ASP:O	31:BL:141:ILE:HG13	2.06	0.56
18:B3:1785:G:H4'	18:B3:2733:U:H5"	1.87	0.56
35:BP:102:ARG:NH2	35:BP:103:ARG:HB2	2.21	0.56
29:BJ:165:LYS:N	29:BJ:165:LYS:HD2	2.19	0.56
20:BA:10:ARG:O	20:BA:14:LYS:HG3	2.06	0.56
20:BA:34:LEU:HD13	20:BA:35:GLN:N	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:97:LEU:O	5:AD:97:LEU:HD23	2.05	0.56
8:AH:69:ASN:HD22	8:AH:70:LYS:HG2	1.71	0.56
12:AL:76:LEU:CD2	12:AL:83:VAL:HG22	2.27	0.56
1:AA:66:G:N1	1:AA:69:G:N1	2.54	0.56
2:AT:108:HIS:ND1	2:AT:540:ILE:HG12	2.12	0.56
18:B3:2780:C:H5''	27:BH:162:GLN:HE21	1.69	0.56
27:BH:11:GLU:O	27:BH:12:VAL:HB	2.05	0.56
43:BW:36:LYS:O	43:BW:40:LYS:HD3	2.04	0.56
43:BW:13:ILE:CD1	43:BW:68:TYR:HA	2.32	0.56
1:AA:1376:U:H2'	7:AG:76:TYR:HB2	1.88	0.56
1:AA:404:U:N3	5:AD:36:LEU:HD13	2.19	0.56
1:AA:1503:A:O2'	1:AA:1507:A:P	2.63	0.56
1:AA:125:U:H5''	1:AA:291:C:H4'	1.76	0.56
20:BA:215:ARG:NH1	20:BA:215:ARG:HB3	2.20	0.56
32:BM:5:VAL:HG12	32:BM:32:ILE:N	2.21	0.56
18:B3:598:C:H2'	18:B3:599:G:H8	1.70	0.56
1:AA:1067:A:H5''	1:AA:1387:G:H4'	1.87	0.56
30:BK:93:LYS:CE	30:BK:96:LYS:HB2	2.36	0.56
18:B3:1556:G:O2'	18:B3:1557:G:H5'	2.05	0.56
1:AA:505:G:H2'	1:AA:506:G:H8	1.70	0.56
1:AA:425:G:O2'	1:AA:426:G:H5'	2.05	0.56
1:AA:1300:G:H4'	13:AM:30:TYR:HD1	1.48	0.56
13:AM:126:ARG:NH1	17:AS:121:ILE:HG12	2.16	0.56
45:BY:2:LYS:HD3	45:BY:3:GLY:H	1.66	0.56
18:B3:618:G:C5'	42:B0:44:ARG:O	2.54	0.56
19:B4:117:G:C2	24:BE:69:ILE:O	2.59	0.56
24:BE:116:ASP:HB2	24:BE:143:LYS:N	2.20	0.56
19:B4:49:G:OP2	24:BE:158:ARG:CA	2.53	0.56
24:BE:83:LEU:CD1	24:BE:104:LEU:HD13	2.36	0.56
18:B3:710:G:OP1	34:BO:43:PRO:N	2.39	0.56
21:BB:106:VAL:HG21	21:BB:110:THR:HG21	1.87	0.56
1:AA:254:G:H5'	16:AQ:79:MET:HE1	1.86	0.56
22:BC:12:HIS:CE1	22:BC:15:PHE:HE1	2.24	0.56
22:BC:313:TYR:CE2	22:BC:333:ARG:HG2	2.41	0.56
28:BI:105:CYS:HB2	28:BI:111:LEU:HB3	1.87	0.56
28:BI:47:PRO:HG2	28:BI:141:LYS:CB	2.35	0.56
26:BG:121:LYS:C	26:BG:121:LYS:HD2	2.26	0.56
31:BL:154:VAL:HG12	31:BL:154:VAL:O	2.05	0.56
31:BL:183:LYS:HE2	31:BL:183:LYS:CA	2.28	0.56
31:BL:21:LEU:HD12	31:BL:21:LEU:C	2.26	0.56
35:BP:94:TRP:CE3	35:BP:95:ILE:HG23	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:44:PRO:C	29:BJ:67:HIS:HB3	2.26	0.56
29:BJ:44:PRO:CG	29:BJ:68:VAL:H	2.19	0.56
20:BA:98:LYS:O	20:BA:102:LYS:HD3	2.06	0.56
39:BT:66:ILE:HG13	39:BT:120:LYS:HZ2	1.71	0.56
1:AA:551:U:H2'	1:AA:552:U:C6	2.41	0.56
37:BR:28:ASN:CA	37:BR:102:ILE:HD12	2.36	0.56
18:B3:1118:A:O5'	18:B3:1228:C:C5	2.58	0.56
18:B3:1116:U:O5'	18:B3:1225:C:C2	2.58	0.56
27:BH:112:ILE:O	27:BH:125:ASN:HB3	2.06	0.56
1:AA:779:C:O4'	11:AK:132:ARG:O	2.24	0.56
35:BP:10:ALA:HB1	35:BP:22:TRP:CH2	2.41	0.56
35:BP:42:LYS:HB3	35:BP:42:LYS:HZ2	1.70	0.56
43:BW:27:ARG:HG3	43:BW:64:LYS:O	2.06	0.56
46:BZ:74:VAL:O	46:BZ:75:LYS:HB2	2.06	0.56
18:B3:82:C:O2'	40:BU:75:ARG:NH1	2.39	0.56
40:BU:100:HIS:CB	40:BU:101:PRO:HA	2.35	0.56
40:BU:57:LEU:C	40:BU:57:LEU:HD12	2.26	0.56
41:BV:82:PRO:HD3	41:BV:120:VAL:CB	2.35	0.56
1:AA:125:U:P	1:AA:310:G:N2	2.79	0.56
46:BZ:1:VAL:HG12	46:BZ:2:ASN:N	2.19	0.56
11:AK:23:ASN:O	11:AK:53:GLU:HB3	2.05	0.56
1:AA:597:G:H4'	16:AQ:99:TYR:HB2	1.87	0.56
18:B3:1210:G:O2'	18:B3:1211:G:H5'	2.06	0.56
37:BR:128:ARG:O	37:BR:131:SER:HB3	2.05	0.56
18:B3:1641:A:C2'	18:B3:1642:A:H5'	2.35	0.56
18:B3:303:C:O2'	18:B3:304:G:H5'	2.06	0.56
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.41	0.56
1:AA:1301:U:H5''	13:AM:29:VAL:O	2.06	0.56
1:AA:1319:A:N7	17:AS:49:MET:CE	2.60	0.56
18:B3:1371:U:H5''	33:BN:66:ILE:HD13	1.79	0.56
33:BN:113:VAL:HG13	33:BN:113:VAL:O	2.06	0.56
33:BN:28:THR:CA	33:BN:31:THR:HG22	2.36	0.56
33:BN:66:ILE:CB	33:BN:79:LYS:HD2	2.35	0.56
18:B3:26:U:C2	18:B3:1320:U:C1'	2.74	0.56
18:B3:1336:U:OP2	42:B0:100:ILE:HD11	2.04	0.56
18:B3:35:U:O3'	23:BD:48:ALA:HB3	2.06	0.56
23:BD:161:THR:HG22	23:BD:217:ALA:C	2.26	0.56
18:B3:471:G:O2'	45:BY:34:SER:OG	1.88	0.56
18:B3:795:G:C2'	18:B3:817:G:H22	2.08	0.56
21:BB:162:ARG:HD2	21:BB:163:GLY:N	2.20	0.56
18:B3:1872:C:H5	21:BB:19:THR:OG1	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:53:ARG:NH1	21:BB:54:GLY:HA2	2.21	0.56
18:B3:1285:U:H3'	25:BF:155:ILE:HG23	1.82	0.56
1:AA:190(F):G:C4	1:AA:265:G:OP1	2.59	0.56
18:B3:953:G:H5'	36:BQ:13:TYR:HD2	1.67	0.56
18:B3:1743:G:H21	37:BR:18:PRO:CD	2.18	0.56
18:B3:2093:G:HO2'	22:BC:253:ALA:CA	1.89	0.56
18:B3:2501:G:C2	28:BI:157:TYR:CE1	2.93	0.56
22:BC:39:PRO:HD3	22:BC:190:LYS:CD	2.36	0.56
18:B3:2656:G:HO2'	22:BC:268:GLN:NE2	2.03	0.56
22:BC:70:GLU:OE2	37:BR:87:ARG:C	2.42	0.56
22:BC:94:THR:CB	22:BC:95:PRO:HA	2.30	0.56
28:BI:35:ASP:HA	28:BI:88:ARG:HH12	1.70	0.56
26:BG:115:VAL:HG13	26:BG:116:ALA:N	2.20	0.56
26:BG:151:LEU:HD12	26:BG:152:ILE:N	2.20	0.56
26:BG:203:ARG:CZ	26:BG:207:GLU:HA	2.36	0.56
31:BL:117:SER:O	31:BL:129:PHE:HE1	1.89	0.56
31:BL:141:ILE:HD13	31:BL:141:ILE:C	2.26	0.56
31:BL:156:LYS:HE3	31:BL:157:HIS:HD1	1.71	0.56
18:B3:1708:C:H5	35:BP:81:LYS:HB2	1.71	0.56
18:B3:2346:C:O4'	29:BJ:64:ILE:O	2.24	0.56
39:BT:91:LYS:HB2	39:BT:109:VAL:HG13	1.86	0.56
39:BT:86:SER:HB2	39:BT:89:ALA:HB2	1.86	0.56
5:AD:190:GLU:HG2	5:AD:190:GLU:O	2.06	0.56
8:AH:36:PHE:HE1	8:AH:102:ILE:CG2	2.15	0.56
6:AE:156:LYS:HD3	8:AH:95:ALA:CB	2.36	0.56
1:AA:60:A:P	1:AA:388:G:H2'	2.39	0.56
37:BR:71:LYS:HG2	37:BR:72:LYS:H	1.71	0.56
32:BM:123:LEU:HD13	32:BM:123:LEU:N	2.17	0.56
32:BM:138:GLY:C	32:BM:142:THR:HG23	2.26	0.56
18:B3:302:A:OP1	40:BU:28:ARG:CZ	2.52	0.56
40:BU:86:THR:HG21	40:BU:97:ILE:CG1	2.35	0.56
18:B3:903:U:C4	41:BV:15:SER:N	2.74	0.56
41:BV:136:LYS:N	41:BV:136:LYS:HD2	2.20	0.56
43:BW:76:ARG:HG2	43:BW:77:LYS:N	2.21	0.56
1:AA:739:C:O2	15:AO:100:HIS:HE1	1.88	0.56
43:BW:80:GLU:OE1	43:BW:80:GLU:HA	2.06	0.56
42:B0:42:VAL:CA	42:B0:49:ASN:HD22	2.15	0.56
18:B3:1072:G:O2'	18:B3:1073:A:H8	1.89	0.56
1:AA:1177:G:N7	9:AI:106:LYS:HD2	2.21	0.56
19:B4:119:C:H1'	24:BE:72:ASP:N	2.21	0.56
19:B4:29:C:N4	24:BE:57:ASN:ND2	2.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.06	0.56
18:B3:501:G:O5'	33:BN:16:ALA:HA	2.02	0.56
23:BD:160:LYS:NZ	23:BD:162:LYS:HB3	2.21	0.56
18:B3:1310:U:C4	23:BD:201:ARG:HB3	2.35	0.56
45:BY:27:HIS:CA	45:BY:30:LYS:HD3	2.35	0.56
18:B3:771:G:H22	45:BY:48:TRP:HA	1.71	0.56
18:B3:1180:C:N1	30:BK:110:ILE:HD11	2.21	0.56
30:BK:113:ALA:CA	30:BK:132:ILE:HD12	2.35	0.56
21:BB:101:LEU:C	21:BB:101:LEU:HD13	2.27	0.56
21:BB:137:GLY:CA	21:BB:146:ARG:HG2	2.36	0.56
21:BB:178:LEU:O	21:BB:178:LEU:HG	2.06	0.56
25:BF:102:LEU:O	25:BF:105:LEU:HD23	2.06	0.56
25:BF:180:ILE:HD12	25:BF:182:ASP:N	2.13	0.56
25:BF:87:ARG:CD	25:BF:102:LEU:HD23	2.35	0.56
18:B3:1067:A:O3'	25:BF:93:LYS:O	2.23	0.56
44:BX:27:GLU:HA	44:BX:27:GLU:OE1	2.04	0.56
22:BC:17:PRO:CG	22:BC:19:LYS:HD2	2.36	0.56
22:BC:207:VAL:O	22:BC:207:VAL:HG13	2.06	0.56
22:BC:327:ILE:HG22	22:BC:329:GLY:H	1.70	0.56
18:B3:2806:C:H5"	22:BC:343:THR:CA	2.36	0.56
22:BC:358:ILE:C	38:BS:15:PRO:CB	2.53	0.56
22:BC:363:LYS:HG3	22:BC:364:PHE:N	2.21	0.56
28:BI:131:ILE:HD12	28:BI:131:ILE:H	1.70	0.56
26:BG:152:ILE:HD11	26:BG:162:VAL:CB	2.36	0.56
26:BG:179:VAL:HG22	26:BG:180:LYS:N	2.20	0.56
31:BL:35:ILE:HG21	31:BL:108:ARG:HE	1.70	0.56
31:BL:67:ARG:HH11	31:BL:67:ARG:CB	2.17	0.56
18:B3:1804:A:H2'	18:B3:1805:G:H8	1.71	0.56
20:BA:108:ASN:CG	20:BA:162:VAL:CB	2.68	0.56
20:BA:67:ILE:HG22	20:BA:83:ASP:O	2.06	0.56
39:BT:85:VAL:HG13	39:BT:86:SER:N	2.20	0.56
14:AN:23:CYS:SG	14:AN:37:ILE:HG13	2.46	0.56
3:AB:154:PHE:CE2	8:AH:19:THR:O	2.59	0.56
5:AD:99:LEU:HD21	5:AD:107:ARG:HB2	1.88	0.56
5:AD:95:TYR:HB2	5:AD:193:GLU:HB3	1.87	0.56
5:AD:86:LEU:HD12	5:AD:96:VAL:HG13	1.86	0.56
8:AH:100:TYR:HB2	8:AH:111:ASP:CG	2.26	0.56
8:AH:35:LYS:C	8:AH:109:ILE:HD11	2.25	0.56
1:AA:25:C:P	12:AL:39:LYS:CG	2.91	0.56
18:B3:2579:G:OP1	18:B3:2680:A:O5'	2.24	0.56
18:B3:2561:C:C4'	18:B3:2777:G:O3'	2.53	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:106:LYS:HD2	27:BH:107:ASP:OD1	2.06	0.56
27:BH:99:ILE:CD1	27:BH:114:VAL:HG12	2.28	0.56
27:BH:124:ARG:NH1	27:BH:125:ASN:H	2.04	0.56
27:BH:97:PHE:HE2	27:BH:118:LEU:C	2.09	0.56
18:B3:1380:U:C3'	43:BW:25:LYS:HZ1	1.97	0.56
46:BZ:71:LEU:HD22	46:BZ:71:LEU:N	2.21	0.56
1:AA:545:C:OP2	5:AD:30:LEU:CD1	2.54	0.56
5:AD:28:LEU:HG	5:AD:42:ILE:O	2.05	0.56
41:BV:91:LYS:HD2	41:BV:91:LYS:C	2.26	0.56
1:AA:121:C:C4	1:AA:235:C:N3	2.74	0.56
18:B3:2663:U:C6	18:B3:2816:A:C6	2.93	0.56
1:AA:119:A:N1	1:AA:239:U:O5'	2.31	0.56
18:B3:194:A:O3'	31:BL:178:LYS:C	2.43	0.56
1:AA:1340:A:HO2'	1:AA:1341:U:H5'	1.65	0.56
15:AO:90:LEU:HB3	15:AO:121:ILE:CG1	2.36	0.56
5:AD:69:ARG:NH1	5:AD:76:LEU:HD11	2.21	0.56
18:B3:2151:G:O2'	18:B3:2161:G:H5'	2.06	0.56
18:B3:1586:G:O2'	18:B3:1587:U:H5'	2.06	0.56
18:B3:1014:A:H2'	18:B3:1015:C:H5'	1.88	0.56
8:AH:91:ASN:O	8:AH:94:PRO:HD3	2.05	0.56
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.40	0.56
1:AA:1301:U:O2'	13:AM:54:LEU:CB	2.44	0.56
13:AM:29:VAL:CG2	13:AM:54:LEU:HB3	2.34	0.56
18:B3:616:U:O2'	42:B0:47:ARG:NH1	2.36	0.56
9:AI:9:PHE:HZ	9:AI:16:THR:HB	1.65	0.56
33:BN:92:GLY:H	33:BN:94:LEU:HD13	1.69	0.56
18:B3:449:A:H5''	18:B3:1305:C:H2'	1.87	0.56
18:B3:1350:U:H3'	23:BD:43:LYS:HG3	1.87	0.56
23:BD:181:LEU:HD23	23:BD:181:LEU:O	2.06	0.56
34:BO:133:LYS:HD2	34:BO:134:GLY:O	2.06	0.56
18:B3:1184:A:O2'	18:B3:1185:U:H5'	2.06	0.56
47:B9:22:ARG:CZ	47:B9:24:GLN:HG2	2.33	0.56
21:BB:80:GLY:CA	47:B9:64:ALA:O	2.41	0.56
21:BB:62:PHE:HB3	21:BB:66:TYR:HB2	1.88	0.56
41:BV:61:HIS:O	41:BV:66:HIS:HB2	2.06	0.56
1:AA:190(E):U:OP2	16:AQ:130:ILE:HD11	1.98	0.56
44:BX:11:THR:CG2	44:BX:12:LYS:HD3	2.36	0.56
44:BX:10:ARG:NH2	44:BX:11:THR:HB	2.21	0.56
44:BX:44:ILE:O	44:BX:45:LYS:HB3	2.06	0.56
18:B3:2820:A:H5'	22:BC:90:GLY:HA3	1.87	0.56
18:B3:2283:G:O5'	28:BI:115:MET:N	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:99:ILE:HG13	28:BI:121:LYS:HE3	1.87	0.56
28:BI:92:HIS:O	28:BI:127:ALA:HB2	2.06	0.56
18:B3:2712:G:O3'	37:BR:44:SER:HA	2.01	0.56
18:B3:263:U:C4'	26:BG:161:LEU:HD11	2.36	0.56
18:B3:251:C:H5''	31:BL:139:LYS:HB2	1.86	0.56
31:BL:17:VAL:HG23	31:BL:18:LEU:N	2.21	0.56
31:BL:43:ARG:HH21	31:BL:47:ALA:N	2.04	0.56
18:B3:1808:C:P	18:B3:2885:A:H3'	2.46	0.56
18:B3:1814:G:OP1	18:B3:2733:U:O2	2.24	0.56
41:BV:39:HIS:HB2	41:BV:42:ILE:HB	1.86	0.56
39:BT:104:VAL:HG12	39:BT:105:ASP:N	2.20	0.56
3:AB:151:PRO:HB2	3:AB:154:PHE:HD2	1.70	0.56
5:AD:159:ALA:HB3	5:AD:160:PRO:HD3	1.87	0.56
6:AE:173:ARG:HA	6:AE:194:ASP:OD2	2.05	0.56
12:AL:136:TRP:CD1	12:AL:139:LYS:HD3	2.41	0.56
18:B3:1745:G:P	37:BR:22:ILE:CD1	2.93	0.56
35:BP:11:ALA:CB	35:BP:16:VAL:HG23	2.36	0.56
43:BW:7:VAL:HG12	43:BW:8:THR:N	2.21	0.56
18:B3:2382:A:C8	46:BZ:10:TYR:HE2	1.98	0.56
18:B3:2379:G:OP2	46:BZ:8:LYS:HD2	2.05	0.56
1:AA:1375:A:C6	7:AG:76:TYR:OH	2.59	0.56
40:BU:39:LEU:HA	40:BU:42:GLN:CG	2.35	0.56
41:BV:72:LEU:HG	41:BV:77:LEU:HD11	1.88	0.56
1:AA:946:A:H2'	1:AA:947:G:C8	2.41	0.56
18:B3:145:A:H1'	31:BL:111:ASN:CG	2.26	0.56
21:BB:201:VAL:HB	21:BB:216:GLN:HE22	1.71	0.56
4:AC:105:LYS:HE3	4:AC:183:ILE:CB	2.30	0.56
22:BC:146:GLU:HG3	22:BC:147:LEU:CD1	2.26	0.56
18:B3:326:G:O2'	18:B3:327:A:H5'	2.05	0.56
33:BN:126:ARG:HD3	33:BN:126:ARG:H	1.70	0.56
3:AB:116:GLU:OE2	6:AE:133:LEU:CG	2.54	0.56
3:AB:109:TYR:HE1	3:AB:114:PHE:C	2.09	0.56
25:BF:190:VAL:HG12	25:BF:191:GLY:N	2.21	0.56
41:BV:85:LYS:HD2	41:BV:85:LYS:C	2.26	0.56
2:AT:169:VAL:CG1	2:AT:173:ASP:HB2	2.36	0.56
2:AT:646:VAL:C	2:AT:647:ILE:HD12	2.26	0.56
2:AT:296:ILE:O	2:AT:300:LEU:HD13	2.05	0.56
1:AA:950:U:O5'	13:AM:140:THR:OG1	2.24	0.55
1:AA:956:U:H4'	17:AS:126:VAL:HG11	1.88	0.55
1:AA:1220:G:H4'	17:AS:94:VAL:HG21	1.88	0.55
9:AI:40:PRO:O	9:AI:41:GLU:HG2	2.05	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:89:VAL:N	9:AI:96:VAL:HG21	2.21	0.55
9:AI:98:GLU:N	9:AI:103:GLU:N	2.54	0.55
19:B4:49:G:O3'	24:BE:96:ALA:N	2.39	0.55
24:BE:58:LYS:O	24:BE:59:ASP:HB2	2.06	0.55
18:B3:2088:C:O2'	33:BN:67:GLY:O	2.12	0.55
33:BN:27:ASN:HA	33:BN:30:GLU:HG2	1.87	0.55
18:B3:677:C:O2	23:BD:230:ALA:CB	2.53	0.55
23:BD:137:ARG:NH1	23:BD:137:ARG:HG2	2.21	0.55
23:BD:160:LYS:HE2	23:BD:163:GLU:H	1.71	0.55
18:B3:1310:U:O5'	23:BD:203:GLY:HA3	2.05	0.55
23:BD:24:VAL:O	23:BD:24:VAL:HG13	2.04	0.55
34:BO:81:VAL:O	34:BO:101:VAL:HG21	2.06	0.55
34:BO:81:VAL:O	34:BO:81:VAL:HG23	2.05	0.55
34:BO:86:THR:OG1	34:BO:106:PHE:HA	2.06	0.55
18:B3:1360:C:OP2	23:BD:90:GLY:O	2.24	0.55
18:B3:471:G:C5'	45:BY:15:HIS:CD2	2.89	0.55
31:BL:76:LYS:HG2	31:BL:77:GLY:N	2.21	0.55
21:BB:177:PRO:CG	47:B9:22:ARG:HH11	1.95	0.55
25:BF:209:PRO:HD2	25:BF:242:MET:CG	2.35	0.55
1:AA:265:G:O3'	16:AQ:131:SER:HA	2.07	0.55
16:AQ:124:VAL:HG22	16:AQ:136:PHE:HB3	1.88	0.55
1:AA:538:G:C5'	12:AL:141:GLU:C	2.72	0.55
18:B3:71:G:N2	44:BX:56:THR:OG1	2.39	0.55
18:B3:1054:G:O5'	28:BI:110:ARG:NH2	2.40	0.55
22:BC:114:LYS:HB3	22:BC:119:LYS:HE2	1.88	0.55
22:BC:174:LYS:C	22:BC:174:LYS:HD2	2.26	0.55
22:BC:161:VAL:HG21	22:BC:177:LEU:HD12	1.88	0.55
22:BC:302:LYS:HE3	22:BC:305:THR:CA	2.35	0.55
18:B3:2820:A:C4'	22:BC:90:GLY:N	2.63	0.55
28:BI:103:LEU:H	28:BI:112:GLN:CB	2.19	0.55
28:BI:141:LYS:N	28:BI:141:LYS:HD2	2.21	0.55
28:BI:78:THR:OG1	28:BI:147:VAL:HG21	2.06	0.55
18:B3:2720:C:O2'	38:BS:19:THR:OG1	2.23	0.55
37:BR:95:PHE:HE2	38:BS:23:ARG:CG	2.16	0.55
26:BG:108:LEU:HB3	26:BG:117:GLU:OE1	2.06	0.55
31:BL:141:ILE:HG23	31:BL:142:ARG:H	1.68	0.55
18:B3:1708:C:H5	35:BP:81:LYS:HG3	1.62	0.55
35:BP:104:LEU:HD12	35:BP:104:LEU:N	2.21	0.55
7:AG:186:ILE:HG22	7:AG:188:THR:O	2.06	0.55
18:B3:920:C:C5	41:BV:38:HIS:HE1	2.23	0.55
18:B3:2214:A:C3'	20:BA:106:LYS:HD2	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1673:U:H5''	39:BT:109:VAL:HG13	1.88	0.55
39:BT:66:ILE:HG13	39:BT:120:LYS:NZ	2.20	0.55
39:BT:104:VAL:HG12	39:BT:125:LEU:HD22	1.88	0.55
39:BT:75:VAL:HB	39:BT:131:ALA:HB2	1.88	0.55
14:AN:31:ARG:O	14:AN:34:ASP:HB2	2.06	0.55
1:AA:552:U:C6	12:AL:47:SER:OG	2.56	0.55
1:AA:64:G:N2	1:AA:73:C:N3	2.54	0.55
1:AA:1373:G:H5'	7:AG:104:GLY:O	2.06	0.55
18:B3:2780:C:O2'	27:BH:155:SER:C	2.44	0.55
27:BH:41:ILE:HG22	27:BH:42:ASP:N	2.20	0.55
18:B3:1243:C:C4'	32:BM:17:ARG:CZ	2.84	0.55
35:BP:9:LEU:O	35:BP:10:ALA:HB3	2.06	0.55
43:BW:16:HIS:CD2	43:BW:34:GLU:HB2	2.40	0.55
43:BW:53:GLU:HG3	43:BW:54:LEU:N	2.16	0.55
1:AA:1345:U:N3	7:AG:76:TYR:HA	2.22	0.55
1:AA:634:C:OP1	16:AQ:92:TYR:CB	2.51	0.55
1:AA:14:U:OP1	1:AA:914:A:O3'	2.24	0.55
1:AA:21:G:C5'	1:AA:884:U:C4'	2.85	0.55
1:AA:125:U:H4'	1:AA:291:C:C4'	2.28	0.55
16:AQ:101:LYS:HG3	16:AQ:101:LYS:O	2.05	0.55
1:AA:751:U:O2'	15:AO:83:ILE:CG1	2.54	0.55
32:BM:80:TYR:O	32:BM:83:LEU:HB2	2.06	0.55
32:BM:6:VAL:O	32:BM:6:VAL:HG23	2.06	0.55
18:B3:1096:U:C2'	25:BF:213:TRP:CZ3	2.89	0.55
40:BU:88:GLU:CD	40:BU:89:LYS:HZ1	2.08	0.55
1:AA:1044:A:H2'	1:AA:1045:C:C5'	2.35	0.55
13:AM:26:ILE:HG12	13:AM:27:LYS:N	2.21	0.55
19:B4:36:C:H2'	24:BE:155:THR:C	2.23	0.55
24:BE:144:VAL:HG23	24:BE:171:LEU:HD11	1.87	0.55
19:B4:5:G:O2'	24:BE:50:ARG:CZ	2.55	0.55
19:B4:50:G:O2'	24:BE:91:GLY:HA3	2.06	0.55
33:BN:20:TYR:HA	33:BN:143:SER:O	2.04	0.55
33:BN:46:TYR:HD1	33:BN:47:LEU:H	1.54	0.55
23:BD:106:ARG:O	23:BD:106:ARG:HD3	2.06	0.55
23:BD:256:LYS:HB3	23:BD:259:GLN:N	2.19	0.55
18:B3:449:A:P	23:BD:45:LYS:CG	2.95	0.55
34:BO:66:ARG:O	34:BO:66:ARG:HD2	2.06	0.55
18:B3:2101:A:C8	23:BD:70:VAL:O	2.59	0.55
23:BD:68:ARG:CZ	23:BD:69:ALA:H	2.19	0.55
45:BY:46:TYR:CD2	45:BY:48:TRP:CE3	2.93	0.55
18:B3:1871:U:P	21:BB:192:ARG:HB2	2.45	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:56:CYS:N	47:B9:61:LYS:HD3	2.21	0.55
18:B3:1459:A:H5'	21:BB:20:ARG:HD3	1.87	0.55
25:BF:117:LYS:HE2	25:BF:118:VAL:HG13	1.87	0.55
1:AA:254:G:O2'	16:AQ:79:MET:HB3	2.07	0.55
1:AA:538:G:OP2	12:AL:142:LYS:CG	2.41	0.55
18:B3:1735:C:O2'	18:B3:1736:A:H5'	2.06	0.55
18:B3:2826:G:C2'	22:BC:123:LYS:CA	2.63	0.55
22:BC:251:ILE:HG21	22:BC:261:TRP:HB3	1.87	0.55
18:B3:2065:C:OP2	22:BC:255:HIS:CD2	2.30	0.55
22:BC:277:ILE:HG22	22:BC:278:ASN:OD1	2.07	0.55
18:B3:183:A:H1'	31:BL:158:ARG:NH1	2.20	0.55
26:BG:104:LYS:CE	26:BG:180:LYS:HB2	2.36	0.55
26:BG:130:ALA:HB1	26:BG:201:GLU:HG3	1.86	0.55
31:BL:58:PHE:CE2	31:BL:147:TYR:CZ	2.94	0.55
18:B3:1806:G:C5'	18:B3:2874:G:C1'	2.84	0.55
18:B3:1706:G:P	35:BP:65:HIS:ND1	2.73	0.55
1:AA:1240:U:C5'	7:AG:188:THR:HG22	2.37	0.55
18:B3:924:G:C6	41:BV:41:ARG:HD2	2.42	0.55
18:B3:2345:A:C4'	29:BJ:48:LYS:HE3	2.29	0.55
18:B3:2349:G:O6	29:BJ:117:PRO:CA	2.49	0.55
29:BJ:130:MET:CE	29:BJ:162:PHE:HD2	2.20	0.55
20:BA:159:LEU:HG	20:BA:162:VAL:O	2.06	0.55
4:AC:10:LEU:HD11	14:AN:32:LYS:CG	2.36	0.55
4:AC:40:VAL:HG22	4:AC:41:THR:N	2.19	0.55
10:AJ:69:LYS:HB3	10:AJ:78:THR:HG21	1.89	0.55
10:AJ:80:GLU:OE2	14:AN:43:ARG:NH1	2.39	0.55
5:AD:143:ILE:HG23	5:AD:143:ILE:O	2.05	0.55
12:AL:135:LEU:HG	12:AL:136:TRP:N	2.20	0.55
12:AL:72:VAL:HG11	12:AL:96:VAL:HG11	1.89	0.55
1:AA:67:C:N3	1:AA:70:G:N7	2.53	0.55
18:B3:2565:C:N4	27:BH:171:ASP:CG	2.60	0.55
18:B3:2704:C:O2'	27:BH:122:LYS:CE	2.53	0.55
27:BH:31:ARG:HA	27:BH:31:ARG:NE	2.22	0.55
27:BH:12:VAL:O	27:BH:52:LEU:HD22	2.06	0.55
35:BP:40:ILE:HA	35:BP:43:LEU:HD22	1.86	0.55
43:BW:15:LEU:HD12	43:BW:15:LEU:H	1.71	0.55
18:B3:1380:U:H3'	43:BW:25:LYS:HZ2	1.55	0.55
18:B3:2552:C:H3'	18:B3:2553:A:H5'	1.88	0.55
18:B3:81:G:H5'	40:BU:74:TYR:C	2.26	0.55
1:AA:292:G:H2'	1:AA:609:A:N1	2.12	0.55
1:AA:435:C:H2'	1:AA:436:C:H6	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:875:A:C1'	21:BB:203:MET:CE	2.78	0.55
21:BB:204:ASN:HB2	21:BB:212:GLY:CA	2.35	0.55
6:AE:115:LYS:HD3	6:AE:126:ALA:HB1	1.88	0.55
1:AA:562:C:C2	12:AL:32:ARG:CG	2.75	0.55
18:B3:1450:C:H4'	18:B3:1451:C:OP2	2.06	0.55
18:B3:1201:C:H2'	18:B3:1202:A:H5'	1.88	0.55
1:AA:780:A:O2'	1:AA:781:A:H5''	2.06	0.55
1:AA:1224:G:H4'	13:AM:139:LYS:CA	2.37	0.55
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.39	0.55
1:AA:1319:A:H5'	1:AA:1320:C:OP1	2.06	0.55
13:AM:122:HIS:NE2	13:AM:126:ARG:HD3	2.21	0.55
17:AS:83:MET:HE1	17:AS:116:LEU:HD11	1.88	0.55
42:B0:43:ARG:HG3	42:B0:44:ARG:H	1.70	0.55
19:B4:14:G:C8	19:B4:14:G:H5'	2.39	0.55
19:B4:49:G:C6	24:BE:158:ARG:NH2	2.66	0.55
24:BE:146:LEU:HD11	24:BE:163:LEU:HB2	1.89	0.55
33:BN:32:ALA:HB2	33:BN:117:GLN:HE21	1.71	0.55
33:BN:88:LYS:CD	33:BN:89:PHE:HD2	2.19	0.55
18:B3:26:U:N1	18:B3:1319:G:O2'	2.38	0.55
18:B3:745:G:N7	34:BO:65:SER:OG	2.23	0.55
23:BD:181:LEU:HD12	23:BD:202:ARG:CA	2.31	0.55
34:BO:76:ALA:C	34:BO:79:LYS:HE3	2.26	0.55
23:BD:64:TRP:HZ3	23:BD:67:GLY:CA	2.19	0.55
18:B3:1164:U:O4'	30:BK:48:LYS:HA	2.05	0.55
30:BK:104:ILE:HD11	30:BK:108:GLU:OE2	2.07	0.55
47:B9:26:LYS:O	47:B9:27:LYS:HG2	2.06	0.55
21:BB:179:LEU:HA	47:B9:20:SER:CA	2.35	0.55
25:BF:168:ILE:HG12	25:BF:177:ILE:O	2.06	0.55
25:BF:206:LEU:HD21	25:BF:242:MET:O	2.05	0.55
18:B3:2468:A:C2	46:BZ:54:LYS:CA	2.87	0.55
1:AA:190(E):U:O4'	16:AQ:130:ILE:HD13	2.04	0.55
22:BC:176:HIS:CE1	22:BC:335:VAL:HG21	2.41	0.55
22:BC:49:LYS:HG2	22:BC:332:LYS:CA	2.37	0.55
18:B3:1055:G:C1'	28:BI:111:LEU:HB2	2.19	0.55
28:BI:165:ILE:HD13	28:BI:165:ILE:O	2.07	0.55
28:BI:69:ARG:O	28:BI:69:ARG:HG3	2.03	0.55
37:BR:87:ARG:HA	37:BR:92:PHE:CD2	2.40	0.55
31:BL:119:TRP:CD1	31:BL:129:PHE:CD2	2.93	0.55
18:B3:921:G:C1'	41:BV:41:ARG:CB	2.82	0.55
18:B3:2350:G:O6	29:BJ:115:TYR:CB	2.54	0.55
29:BJ:14:GLU:HG2	29:BJ:129:VAL:HG13	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:167:VAL:HG12	20:BA:168:ALA:N	2.21	0.55
20:BA:49:PHE:CZ	20:BA:51:GLY:HA3	2.41	0.55
8:AH:101:VAL:HB	8:AH:127:PHE:CE2	2.41	0.55
1:AA:861:G:P	8:AH:18:LYS:HZ1	2.20	0.55
1:AA:1075:C:H5'	3:AB:102:THR:HA	1.84	0.55
1:AA:1406:U:H1'	1:AA:1518:A:H5'	0.64	0.55
18:B3:79:G:O3'	40:BU:74:TYR:OH	2.24	0.55
40:BU:113:LYS:HD2	40:BU:116:LYS:HZ1	1.70	0.55
40:BU:119:ILE:HG13	40:BU:119:ILE:O	2.07	0.55
40:BU:24:SER:C	40:BU:27:ARG:HD3	2.27	0.55
1:AA:13:U:C4'	1:AA:913:A:O2'	2.43	0.55
18:B3:906:C:O3'	18:B3:1328:A:O3'	2.20	0.55
41:BV:116:ARG:O	41:BV:117:ILE:HD13	2.07	0.55
15:AO:108:LYS:O	15:AO:108:LYS:HD3	2.05	0.55
18:B3:2403:C:C2'	36:BQ:69:LYS:HB2	2.36	0.55
15:AO:91:ILE:HD11	15:AO:92:LYS:HZ2	1.71	0.55
32:BM:22:VAL:O	32:BM:22:VAL:HG13	2.06	0.55
18:B3:1682:A:H2	18:B3:1696:U:N3	1.89	0.55
20:BA:24:LYS:NZ	20:BA:25:LYS:HB3	2.21	0.55
5:AD:60:LEU:C	5:AD:60:LEU:HD23	2.27	0.55
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.07	0.55
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.41	0.55
18:B3:684:G:H2'	18:B3:685:C:C6	2.42	0.55
18:B3:1909:A:H2'	18:B3:1910:A:C8	2.42	0.55
5:AD:114:TYR:HE1	5:AD:120:LYS:O	1.89	0.55
1:AA:989:C:H6	1:AA:1016:A:C6	2.17	0.55
1:AA:1223:C:OP1	1:AA:1224:G:H3'	2.06	0.55
13:AM:145:ARG:HG3	13:AM:145:ARG:O	2.07	0.55
13:AM:54:LEU:N	13:AM:54:LEU:HD12	2.21	0.55
1:AA:1299:A:C8	13:AM:55:HIS:HA	2.42	0.55
18:B3:617:C:C2'	42:B0:45:ARG:O	2.55	0.55
19:B4:120:A:H4'	24:BE:74:VAL:HG12	1.88	0.55
24:BE:183:TRP:HE3	24:BE:184:ASP:HB2	1.70	0.55
36:BQ:85:LEU:N	36:BQ:85:LEU:HD12	2.22	0.55
1:AA:335:C:O5'	1:AA:1434:A:O3'	2.25	0.55
18:B3:1370:G:C8	33:BN:27:ASN:CB	2.88	0.55
33:BN:12:LYS:HG3	33:BN:151:GLU:C	2.25	0.55
33:BN:59:PHE:CE1	33:BN:81:ARG:HD3	2.41	0.55
23:BD:130:VAL:HG11	23:BD:133:LEU:O	2.07	0.55
23:BD:133:LEU:CD1	23:BD:136:ALA:HB3	2.28	0.55
18:B3:751:U:C4'	23:BD:36:THR:CG2	2.58	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1348:A:C2	23:BD:42:ASN:CG	2.80	0.55
45:BY:15:HIS:HD2	45:BY:24:ARG:CD	2.19	0.55
30:BK:65:GLN:HG2	30:BK:117:ARG:HH22	1.70	0.55
21:BB:127:ARG:H	21:BB:127:ARG:CD	2.13	0.55
21:BB:115:VAL:HG12	21:BB:162:ARG:HH12	1.70	0.55
21:BB:97:VAL:HA	21:BB:165:ILE:HB	1.84	0.55
21:BB:99:ASN:O	21:BB:100:VAL:HG13	2.06	0.55
18:B3:68:U:N3	44:BX:57:VAL:CG2	2.65	0.55
22:BC:302:LYS:N	22:BC:302:LYS:HD3	2.22	0.55
37:BR:80:ARG:HB2	37:BR:99:ALA:CB	2.35	0.55
31:BL:119:TRP:CA	31:BL:129:PHE:HA	2.36	0.55
31:BL:158:ARG:HE	31:BL:159:GLU:HB2	1.71	0.55
5:AD:101:VAL:HG12	5:AD:101:VAL:O	2.04	0.55
6:AE:165:THR:HB	6:AE:200:ASN:CG	2.27	0.55
18:B3:1993:C:H5'	37:BR:71:LYS:HA	0.56	0.55
18:B3:2561:C:H5''	18:B3:2778:A:H5'	1.88	0.55
18:B3:2578:G:N9	18:B3:2801:A:H5''	2.21	0.55
18:B3:2580:G:P	18:B3:2680:A:N7	2.79	0.55
18:B3:2703:A:N1	27:BH:121:LYS:HE2	2.20	0.55
27:BH:118:LEU:HD22	27:BH:118:LEU:H	1.71	0.55
27:BH:172:ILE:O	27:BH:172:ILE:HG23	2.07	0.55
32:BM:124:ARG:O	32:BM:124:ARG:HG2	2.06	0.55
1:AA:676:A:OP2	11:AK:120:VAL:O	2.20	0.55
1:AA:144:G:N1	1:AA:199:G:H5''	2.00	0.55
35:BP:11:ALA:HB3	35:BP:18:LYS:CE	2.37	0.55
1:AA:633:G:H4'	16:AQ:94:PRO:C	2.24	0.55
1:AA:499:A:O3'	1:AA:546:G:N2	2.37	0.55
18:B3:698:A:P	41:BV:113:GLY:O	2.64	0.55
18:B3:875:A:O2'	21:BB:203:MET:HE1	2.06	0.55
41:BV:48:HIS:HA	41:BV:51:TYR:CD1	2.42	0.55
1:AA:55:A:C2	2:AT:68:ILE:HG13	2.41	0.55
18:B3:137:U:H2'	18:B3:139:C:C5	2.41	0.55
4:AC:133:CYS:C	4:AC:156:LEU:HD11	2.27	0.55
2:AT:279:ASP:HB3	2:AT:280:PRO:HD3	1.88	0.55
40:BU:84:LYS:N	40:BU:84:LYS:HD2	2.22	0.55
1:AA:1226:C:O2	17:AS:126:VAL:C	2.44	0.55
18:B3:1688:G:C2	33:BN:129:TYR:OH	2.59	0.55
18:B3:540:A:P	42:B0:16:LYS:O	2.65	0.55
1:AA:1129:C:H41	1:AA:1141:C:H42	1.55	0.55
9:AI:47:VAL:HG11	9:AI:80:ILE:CB	2.37	0.55
19:B4:50:G:H5'	24:BE:94:ASN:CG	2.26	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:183:TRP:HB2	24:BE:187:THR:HA	1.88	0.55
24:BE:56:THR:HB	24:BE:59:ASP:HB3	1.89	0.55
36:BQ:74:VAL:CB	36:BQ:91:LEU:HD21	2.36	0.55
33:BN:117:GLN:NE2	33:BN:117:GLN:H	2.03	0.55
34:BO:45:ASN:HA	34:BO:48:VAL:CG1	2.37	0.55
34:BO:63:SER:HB3	34:BO:90:ASP:OD1	2.07	0.55
18:B3:817:G:O2'	18:B3:818:A:H8	1.90	0.55
18:B3:820:G:OP1	47:B9:21:LEU:CD2	2.55	0.55
21:BB:3:VAL:HG11	21:BB:7:GLN:HE21	1.70	0.55
1:AA:265:G:O2'	1:AA:266:G:H5'	2.06	0.55
44:BX:12:LYS:CG	44:BX:16:GLN:HG2	2.36	0.55
18:B3:1056:U:H2'	18:B3:1057:A:O4'	2.05	0.55
18:B3:1132:A:N1	18:B3:2500:C:O2	2.39	0.55
18:B3:1133:A:N1	18:B3:2501:G:C8	2.75	0.55
22:BC:104:VAL:HA	22:BC:105:TRP:CE3	2.41	0.55
22:BC:303:THR:HG23	22:BC:304:ILE:HG13	1.87	0.55
22:BC:91:TYR:N	22:BC:101:LEU:HG	2.21	0.55
28:BI:128:ARG:HB2	28:BI:128:ARG:HH11	1.72	0.55
37:BR:11:PHE:CD2	37:BR:121:GLU:HG3	2.42	0.55
18:B3:2244:A:H4'	31:BL:27:TRP:CE3	2.37	0.55
31:BL:187:ARG:NH1	31:BL:191:LYS:HB3	2.22	0.55
18:B3:1806:G:H22	18:B3:2883:A:H3'	0.41	0.55
18:B3:920:C:C5	41:BV:38:HIS:CE1	2.94	0.55
29:BJ:79:LEU:HD23	29:BJ:126:PHE:CE1	2.41	0.55
39:BT:106:VAL:CB	39:BT:123:VAL:HG11	2.32	0.55
1:AA:639:G:O2'	1:AA:640:A:H5'	2.06	0.55
3:AB:89:ALA:CB	3:AB:96:PRO:HG3	2.37	0.55
1:AA:403:C:O3'	5:AD:126:ARG:HB3	2.07	0.55
5:AD:100:LYS:HG3	5:AD:195:ASP:CB	2.36	0.55
8:AH:32:VAL:HG23	8:AH:33:ILE:N	2.21	0.55
18:B3:215:A:OP1	41:BV:58:ARG:CB	2.47	0.55
40:BU:100:HIS:HB2	40:BU:101:PRO:CA	2.37	0.55
40:BU:39:LEU:HD11	40:BU:43:TYR:HE1	1.70	0.55
1:AA:1503:A:C2'	1:AA:1507:A:O5'	2.55	0.55
21:BB:199:ARG:N	21:BB:199:ARG:HD3	2.21	0.55
1:AA:1349:A:H5''	9:AI:135:SER:CA	2.37	0.55
20:BA:52:SER:O	20:BA:53:LEU:HD23	2.06	0.55
3:AB:86:LEU:HD12	3:AB:86:LEU:C	2.26	0.55
1:AA:650:G:C2'	1:AA:651:C:H5'	2.37	0.55
18:B3:1666:C:H2'	18:B3:1667:A:C8	2.41	0.55
18:B3:1214:G:H4'	18:B3:1215:A:OP1	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:615:ARG:HG2	2:AT:619:MET:HE1	1.89	0.55
18:B3:566:A:H2'	18:B3:567:U:O4'	2.06	0.55
41:BV:147:ILE:HD12	41:BV:147:ILE:C	2.27	0.55
1:AA:1321:C:H2'	17:AS:81:ARG:HH21	0.73	0.55
1:AA:987:G:C5	17:AS:77:ARG:CD	2.78	0.55
9:AI:34:PRO:HG2	9:AI:37:LEU:CB	2.29	0.55
18:B3:2415:A:H1'	24:BE:39:GLN:HG3	0.94	0.55
19:B4:13:A:H1'	24:BE:20:PHE:HE1	1.72	0.55
24:BE:64:ILE:HG12	24:BE:109:THR:CG2	2.27	0.55
24:BE:64:ILE:H	24:BE:74:VAL:HG23	1.72	0.55
1:AA:336:C:O2	1:AA:1468:A:N3	2.39	0.55
33:BN:17:ARG:HG3	33:BN:146:GLU:C	2.26	0.55
18:B3:749:C:O2'	23:BD:113:ASN:CB	2.54	0.55
18:B3:35:U:C5'	23:BD:104:THR:HB	2.31	0.55
18:B3:707:C:N4	34:BO:72:LYS:HE3	2.21	0.55
18:B3:891:G:O4'	45:BY:49:GLY:HA2	2.07	0.55
23:BD:62:GLU:H	23:BD:76:VAL:HB	1.71	0.55
45:BY:27:HIS:O	45:BY:30:LYS:HD3	2.06	0.55
47:B9:25:VAL:HA	47:B9:28:LEU:HD12	1.88	0.55
18:B3:1875:A:O2'	21:BB:150:PRO:HB2	2.04	0.55
41:BV:59:TYR:HB3	41:BV:62:LYS:CB	2.36	0.55
25:BF:123:LEU:C	25:BF:123:LEU:HD13	2.27	0.55
25:BF:133:VAL:HG23	25:BF:134:ALA:O	2.07	0.55
25:BF:115:PHE:CE2	25:BF:187:ILE:HG22	2.41	0.55
18:B3:2468:A:H4'	18:B3:2469:A:OP1	2.06	0.55
1:AA:190(F):G:C2	1:AA:265:G:OP2	2.58	0.55
18:B3:2764:C:P	37:BR:14:SER:OG	2.62	0.55
18:B3:2828:G:N1	22:BC:127:LYS:N	2.38	0.55
18:B3:2847:G:C3'	22:BC:172:GLN:HG3	2.20	0.55
22:BC:173:LYS:HE3	22:BC:174:LYS:N	2.19	0.55
22:BC:176:HIS:CE1	22:BC:335:VAL:HG11	2.41	0.55
37:BR:54:LEU:HD13	37:BR:78:VAL:HG22	1.88	0.55
18:B3:251:C:C2'	31:BL:139:LYS:CE	2.65	0.55
31:BL:58:PHE:CE2	31:BL:147:TYR:CE1	2.95	0.55
31:BL:158:ARG:HH21	31:BL:159:GLU:HB3	1.72	0.55
18:B3:1761:U:H2'	18:B3:1762:C:C6	2.42	0.55
35:BP:119:TYR:O	35:BP:123:TYR:HB2	2.07	0.55
35:BP:101:LEU:CD1	35:BP:137:LEU:HD12	2.25	0.55
18:B3:2347:C:O2'	29:BJ:17:VAL:HG23	2.07	0.55
18:B3:2348:C:H4'	29:BJ:69:THR:HA	1.89	0.55
1:AA:6:G:C4'	1:AA:298:A:O2'	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:400:C:H4'	5:AD:77:ILE:HD13	1.22	0.55
1:AA:449:C:O3'	1:AA:619:U:OP2	2.23	0.55
3:AB:139:ASN:CB	8:AH:69:ASN:CG	2.74	0.55
8:AH:70:LYS:HG3	8:AH:71:CYS:N	2.21	0.55
37:BR:32:ARG:NH1	37:BR:62:VAL:HG12	2.22	0.55
1:AA:1373:G:C1'	7:AG:104:GLY:HA3	2.36	0.55
18:B3:1115:U:C2	18:B3:1225:C:O4'	2.59	0.55
18:B3:1118:A:C4'	18:B3:1227:C:C5	2.88	0.55
18:B3:2779:G:C1'	27:BH:163:GLN:CB	2.81	0.55
32:BM:35:VAL:HG11	32:BM:109:PRO:HA	1.88	0.55
18:B3:2382:A:N7	46:BZ:10:TYR:CE2	2.73	0.55
46:BZ:71:LEU:HD23	46:BZ:82:LEU:HD22	1.89	0.55
40:BU:50:ILE:HD13	40:BU:104:LEU:CD1	2.22	0.55
41:BV:125:LYS:CA	41:BV:145:GLU:HB2	2.36	0.55
1:AA:1483:A:H2'	18:B3:2001:G:C4	2.42	0.55
18:B3:897:A:P	41:BV:26:LYS:CB	2.93	0.55
11:AK:47:VAL:HG12	11:AK:52:ASP:HB3	1.89	0.55
11:AK:78:VAL:HG12	11:AK:79:HIS:N	2.22	0.55
21:BB:201:VAL:CG1	21:BB:216:GLN:HA	2.33	0.55
43:BW:77:LYS:CD	43:BW:79:ASN:HB2	2.36	0.55
22:BC:348:LYS:H	22:BC:348:LYS:CD	2.18	0.55
40:BU:115:ARG:HD2	40:BU:118:LEU:CA	2.33	0.55
1:AA:190:C:H2'	1:AA:190(A):C:C6	2.42	0.55
1:AA:1328:C:H1'	13:AM:96:LYS:CD	2.10	0.55
9:AI:51:LEU:HA	9:AI:58:LYS:CG	2.37	0.55
24:BE:148:ILE:HB	24:BE:151:GLN:OE1	2.07	0.55
24:BE:36:LEU:O	24:BE:37:VAL:HG12	2.07	0.55
24:BE:55:PHE:HZ	24:BE:159:VAL:N	2.03	0.55
36:BQ:64:VAL:CG2	36:BQ:74:VAL:HG22	2.37	0.55
18:B3:2275:G:H8	31:BL:80:TYR:CD2	2.23	0.55
30:BK:98:VAL:CG1	30:BK:142:ARG:HB2	2.36	0.55
21:BB:103:LEU:HD22	21:BB:106:VAL:CG1	2.36	0.55
25:BF:116:VAL:HG11	25:BF:122:THR:HG23	1.87	0.55
25:BF:124:GLU:O	25:BF:127:LYS:HG2	2.07	0.55
25:BF:168:ILE:HD13	25:BF:183:LEU:HD21	1.88	0.55
1:AA:254:G:O3'	16:AQ:82:THR:HG21	2.06	0.55
1:AA:254:G:OP1	16:AQ:132:LYS:O	2.25	0.55
18:B3:106:A:H2	44:BX:56:THR:OG1	1.90	0.55
18:B3:2829:G:OP1	22:BC:130:THR:CG2	2.54	0.55
22:BC:260:MET:HB2	32:BM:66:THR:CB	2.36	0.55
18:B3:2655:U:C2'	22:BC:265:ARG:HB3	2.25	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2837:U:H3	22:BC:334:ILE:HA	1.72	0.55
18:B3:2820:A:O4'	22:BC:89:VAL:CB	2.54	0.55
28:BI:140:THR:HG22	28:BI:141:LYS:N	2.15	0.55
28:BI:60:LEU:HD23	28:BI:127:ALA:O	2.07	0.55
1:AA:1240:U:O4'	7:AG:188:THR:HB	2.07	0.55
18:B3:925:C:C5'	41:BV:28:PRO:HG3	2.37	0.55
18:B3:2351:C:O2	29:BJ:114:LYS:O	2.25	0.55
39:BT:106:VAL:O	39:BT:106:VAL:HG23	2.05	0.55
1:AA:621:A:OP2	5:AD:143:ILE:CB	2.54	0.55
3:AB:75:ILE:CG2	3:AB:122:VAL:HA	2.37	0.55
5:AD:98:ALA:O	5:AD:99:LEU:HB3	2.07	0.55
8:AH:33:ILE:HG23	8:AH:60:ILE:CD1	2.37	0.55
12:AL:39:LYS:HD2	12:AL:110:LYS:HE2	1.89	0.55
12:AL:84:THR:CG2	12:AL:120:VAL:HG12	2.37	0.55
2:AT:144:ARG:CB	2:AT:481:MET:O	2.55	0.55
18:B3:2579:G:O3'	18:B3:2680:A:C8	2.60	0.55
27:BH:33:THR:HG22	27:BH:34:LEU:N	2.21	0.55
32:BM:60:ALA:HB1	32:BM:71:HIS:HD2	1.71	0.55
1:AA:1377:A:C5	7:AG:76:TYR:CG	2.66	0.55
18:B3:905:C:H5"	41:BV:11:ARG:HD3	1.79	0.55
11:AK:42:THR:HG21	11:AK:58:ALA:HB1	1.88	0.55
21:BB:1:GLY:N	21:BB:206:VAL:HB	2.22	0.55
15:AO:91:ILE:HG13	15:AO:92:LYS:N	2.21	0.55
9:AI:142:ARG:HG2	9:AI:142:ARG:OXT	2.06	0.55
18:B3:2581:U:C1'	18:B3:2600:A:H2	2.16	0.55
4:AC:165:ASP:HB3	4:AC:167:ILE:CG1	2.31	0.55
38:BS:39:LEU:O	38:BS:42:GLN:HG2	2.06	0.55
23:BD:10:LEU:N	23:BD:10:LEU:HD22	2.20	0.55
3:AB:109:TYR:HE1	3:AB:114:PHE:HB3	1.72	0.55
2:AT:353:ALA:HB3	2:AT:370:LYS:HG2	1.87	0.55
42:B0:115:LEU:N	42:B0:115:LEU:HD22	2.22	0.55
6:AE:81:ASN:HD22	6:AE:81:ASN:N	2.03	0.55
18:B3:1697:G:O2'	18:B3:1698:U:H5'	2.05	0.55
43:BW:38:PHE:O	43:BW:42:HIS:HB2	2.07	0.55
1:AA:743:U:H2'	1:AA:744:C:C6	2.42	0.55
1:AA:692:U:OP2	11:AK:89:ARG:NH2	2.39	0.55
18:B3:2016:U:H2'	18:B3:2017:U:C6	2.42	0.55
1:AA:1329:A:H1'	13:AM:90:ASN:HD22	1.71	0.55
1:AA:1129:C:O2'	1:AA:1130:A:OP2	2.22	0.55
9:AI:35:ILE:HG23	9:AI:36:THR:N	2.22	0.55
19:B4:7:G:C8	24:BE:22:ARG:CD	2.90	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:204:VAL:O	24:BE:207:TYR:HB3	2.06	0.55
24:BE:63:GLN:HG2	24:BE:64:ILE:N	2.17	0.55
36:BQ:27:LEU:HA	36:BQ:30:TYR:CE1	2.41	0.55
18:B3:2053:G:OP1	33:BN:141:SER:N	2.35	0.55
42:B0:82:LEU:HD12	42:B0:82:LEU:O	2.07	0.55
18:B3:449:A:H61	18:B3:1349:G:H5''	1.70	0.55
18:B3:553:G:OP2	42:B0:71:HIS:NE2	2.37	0.55
34:BO:138:LEU:HD12	34:BO:138:LEU:N	2.22	0.55
18:B3:745:G:H22	41:BV:76:LYS:NZ	2.04	0.55
18:B3:170:U:H5''	31:BL:82:LYS:HB2	1.87	0.55
18:B3:894:A:O4'	23:BD:57:HIS:NE2	2.40	0.55
18:B3:2100:A:O5'	23:BD:69:ALA:N	2.40	0.55
18:B3:1184:A:H5'	30:BK:85:LEU:HD12	1.88	0.55
47:B9:9:ILE:O	47:B9:10:THR:HG23	2.07	0.55
25:BF:235:ILE:O	25:BF:235:ILE:HG22	2.07	0.55
1:AA:190(D):U:H3	16:AQ:111:SER:CB	2.20	0.55
22:BC:109:LEU:C	22:BC:109:LEU:HD13	2.27	0.55
22:BC:248:VAL:HG12	22:BC:249:ALA:N	2.20	0.55
22:BC:24:ILE:HG23	22:BC:24:ILE:O	2.07	0.55
22:BC:310:PHE:HD2	22:BC:311:VAL:HG23	1.65	0.55
22:BC:52:MET:HG2	22:BC:75:VAL:C	2.26	0.55
28:BI:15:LYS:HB3	28:BI:16:PRO:CD	2.37	0.55
28:BI:17:TYR:HB2	28:BI:18:PRO:C	2.27	0.55
28:BI:29:SER:CB	28:BI:31:ILE:HG22	2.26	0.55
28:BI:52:LEU:HB2	28:BI:136:PHE:H	1.71	0.55
37:BR:45:ARG:HG2	37:BR:46:LEU:N	2.21	0.55
37:BR:48:ARG:HG2	37:BR:49:LEU:N	2.21	0.55
37:BR:92:PHE:C	38:BS:19:THR:HG23	2.26	0.55
26:BG:201:GLU:HG3	26:BG:202:VAL:H	1.71	0.55
31:BL:126:TYR:N	31:BL:126:TYR:HD1	2.05	0.55
31:BL:150:ILE:HG12	31:BL:151:CYS:SG	2.46	0.55
31:BL:72:ARG:HH12	31:BL:88:VAL:HG12	1.71	0.55
31:BL:72:ARG:NH1	31:BL:88:VAL:HG12	2.21	0.55
31:BL:90:GLU:HG2	31:BL:91:LEU:N	2.22	0.55
35:BP:72:GLY:O	35:BP:73:ARG:HG3	2.06	0.55
18:B3:924:G:N7	41:BV:41:ARG:NH1	2.55	0.55
18:B3:166:A:N6	41:BV:28:PRO:O	2.40	0.55
18:B3:2338:G:O5'	29:BJ:126:PHE:HB2	2.06	0.55
29:BJ:140:ARG:HA	29:BJ:140:ARG:NH1	2.21	0.55
18:B3:124:C:P	39:BT:88:LYS:HD3	2.45	0.55
18:B3:1672:G:H4'	39:BT:91:LYS:NZ	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:74:ILE:HD13	8:AH:77:ARG:CZ	2.37	0.55
12:AL:76:LEU:HD22	12:AL:76:LEU:N	2.22	0.55
2:AT:464:LEU:CB	2:AT:513:LYS:CG	2.59	0.55
1:AA:712:A:N1	11:AK:124:SER:C	2.61	0.55
43:BW:16:HIS:HB2	43:BW:30:ARG:CZ	2.37	0.55
1:AA:121:C:C2	1:AA:126:G:O6	2.60	0.55
1:AA:239:U:H6	1:AA:240:C:C5	2.25	0.55
42:B0:62:LYS:C	42:B0:62:LYS:HD2	2.26	0.55
1:AA:54:C:H2'	1:AA:352:C:H41	1.71	0.55
20:BA:90:LEU:HG	20:BA:124:LEU:CD1	2.33	0.55
18:B3:2204:A:H2'	18:B3:2205:G:O4'	2.07	0.55
18:B3:382:U:C4	31:BL:11:ARG:NH2	2.75	0.55
18:B3:1555:G:O2'	18:B3:1556:G:P	2.64	0.55
18:B3:2463:A:O2'	18:B3:2464:C:OP1	2.23	0.55
1:AA:1221:G:P	17:AS:81:ARG:N	2.79	0.55
13:AM:120:ARG:HB2	17:AS:110:GLU:HG3	1.89	0.55
19:B4:13:A:HO2'	24:BE:20:PHE:HZ	0.64	0.55
24:BE:106:ALA:HA	24:BE:110:LEU:HB2	1.89	0.55
24:BE:146:LEU:HD13	24:BE:163:LEU:HB2	1.89	0.55
18:B3:2087:C:C4'	33:BN:78:THR:HB	2.27	0.55
33:BN:115:HIS:CA	33:BN:148:VAL:HG21	2.36	0.55
18:B3:1310:U:O4	23:BD:181:LEU:CD1	2.49	0.55
23:BD:128:THR:HG23	23:BD:247:VAL:HG21	1.88	0.55
23:BD:176:ASP:C	23:BD:205:LEU:HD11	2.27	0.55
18:B3:677:C:H5'	23:BD:256:LYS:HE2	1.74	0.55
18:B3:35:U:H4'	23:BD:48:ALA:CB	2.37	0.55
23:BD:84:SER:HA	23:BD:97:ARG:CD	2.36	0.55
47:B9:47:LYS:HE3	47:B9:48:ARG:N	2.22	0.55
21:BB:172:GLY:N	47:B9:68:TYR:HE1	2.05	0.55
21:BB:236:LEU:N	21:BB:236:LEU:HD12	2.21	0.55
18:B3:1067:A:C5'	25:BF:96:PRO:CD	2.84	0.55
18:B3:107:U:C2	44:BX:56:THR:HB	2.41	0.55
18:B3:2291:A:C8	18:B3:2309:C:H5'	2.42	0.55
22:BC:116:ARG:HD2	22:BC:174:LYS:HG2	1.88	0.55
18:B3:2828:G:H2'	22:BC:128:ALA:N	2.13	0.55
22:BC:359:ASP:HA	38:BS:14:TYR:HB3	1.84	0.55
22:BC:41:ALA:H	22:BC:182:LEU:HB3	1.68	0.55
22:BC:72:VAL:HG12	22:BC:73:GLU:N	2.22	0.55
22:BC:75:VAL:HG22	22:BC:76:THR:N	2.17	0.55
28:BI:58:GLU:CB	28:BI:129:VAL:H	2.19	0.55
28:BI:65:LEU:HD11	28:BI:69:ARG:CB	2.34	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:98:ARG:N	28:BI:98:ARG:HD3	2.21	0.55
37:BR:15:LEU:N	37:BR:15:LEU:HD22	2.21	0.55
31:BL:25:ARG:CG	31:BL:26:VAL:H	2.15	0.55
31:BL:88:VAL:HG12	31:BL:89:ASN:N	2.21	0.55
18:B3:1787:C:O2	18:B3:2882:G:O2'	2.24	0.55
18:B3:1814:G:N3	18:B3:2733:U:C5	2.75	0.55
18:B3:2737:C:N4	35:BP:61:ARG:CZ	2.60	0.55
18:B3:2109:U:H5	41:BV:42:ILE:HD13	1.71	0.55
18:B3:2466:G:OP1	41:BV:38:HIS:CG	2.59	0.55
29:BJ:103:PHE:H	29:BJ:122:PHE:HB2	1.72	0.55
18:B3:2345:A:C5'	29:BJ:48:LYS:HE3	2.34	0.55
29:BJ:48:LYS:HG2	29:BJ:49:ALA:O	2.06	0.55
18:B3:1508:C:C5'	39:BT:77:ASP:CB	2.83	0.55
3:AB:145:LEU:HA	3:AB:159:ILE:HB	1.88	0.55
1:AA:364:A:N7	12:AL:78:LYS:HD2	2.17	0.55
2:AT:109:VAL:HG12	2:AT:115:VAL:HG21	1.89	0.55
2:AT:140:GLU:HB3	2:AT:481:MET:CA	2.32	0.55
1:AA:1346:A:H1'	1:AA:1348:U:C5	2.42	0.55
9:AI:11:LYS:H	9:AI:11:LYS:HD3	1.71	0.55
18:B3:2778:A:O3'	27:BH:166:ARG:HG3	2.06	0.55
27:BH:112:ILE:HD11	27:BH:128:VAL:HG23	1.89	0.55
27:BH:27:VAL:HB	27:BH:33:THR:HG23	1.89	0.55
27:BH:46:THR:HB	27:BH:55:VAL:HG23	1.88	0.55
27:BH:13:PRO:HD3	27:BH:79:ILE:CG2	2.37	0.55
43:BW:53:GLU:CG	43:BW:54:LEU:H	2.16	0.55
46:BZ:9:THR:HB	46:BZ:19:HIS:HB3	1.88	0.55
40:BU:70:ILE:HD13	40:BU:80:VAL:HG21	1.87	0.55
1:AA:1343:G:H4'	9:AI:136:ARG:C	2.27	0.55
41:BV:81:ILE:O	41:BV:120:VAL:HG22	2.06	0.55
1:AA:947:G:C3'	13:AM:143:ARG:CZ	2.84	0.55
1:AA:1505:G:O5'	1:AA:1506:U:C2	2.23	0.55
18:B3:2663:U:C2'	18:B3:2816:A:N7	2.70	0.55
18:B3:194:A:O3'	31:BL:178:LYS:CA	2.55	0.55
18:B3:2250:G:N2	18:B3:2251:G:H1'	2.22	0.55
16:AQ:93:ILE:HG13	16:AQ:97:ASN:H	1.72	0.55
18:B3:560:C:O2'	18:B3:561:G:H5'	2.06	0.55
42:B0:64:LYS:N	42:B0:64:LYS:HD3	2.21	0.55
1:AA:1065:U:O4	1:AA:1189:C:N4	2.40	0.55
23:BD:250:THR:HG22	23:BD:253:ALA:CB	2.35	0.55
5:AD:60:LEU:HD23	5:AD:64:GLU:HG3	1.89	0.55
18:B3:382:U:H3	31:BL:11:ARG:HH22	1.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:552:VAL:HG13	2:AT:553:PRO:HD2	1.89	0.55
1:AA:192:U:O2'	1:AA:193:C:H5'	2.05	0.55
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.06	0.55
2:AT:810:ASP:O	2:AT:816:GLY:HA3	2.06	0.55
1:AA:1220:G:N3	17:AS:77:ARG:CB	2.65	0.55
1:AA:1320:C:O2	17:AS:119:PHE:N	2.26	0.55
1:AA:1301:U:HO2'	13:AM:54:LEU:HB3	1.72	0.55
18:B3:841:A:N6	33:BN:132:HIS:O	2.31	0.55
18:B3:538:C:C2'	42:B0:21:HIS:ND1	2.70	0.55
18:B3:1088:A:H1'	18:B3:1260:G:H21	1.72	0.55
1:AA:1176:A:C5	9:AI:108:PHE:CD2	2.95	0.55
9:AI:47:VAL:CG1	9:AI:80:ILE:HG22	2.37	0.55
36:BQ:74:VAL:C	36:BQ:89:LEU:HB3	2.28	0.55
18:B3:2387:U:C3'	36:BQ:88:ARG:HB2	2.36	0.55
18:B3:2662:G:C2'	18:B3:2814:A:C2	2.89	0.55
18:B3:707:C:H41	34:BO:72:LYS:HE3	1.72	0.55
18:B3:1358:A:C2	23:BD:86:GLN:CB	2.90	0.55
47:B9:25:VAL:O	47:B9:26:LYS:HB2	2.06	0.55
21:BB:76:ILE:HG23	21:BB:76:ILE:O	2.06	0.55
22:BC:110:SER:HB2	22:BC:113:VAL:HG23	1.87	0.55
22:BC:254:TRP:HZ3	22:BC:256:PRO:CB	2.19	0.55
28:BI:101:LYS:O	28:BI:112:GLN:HG3	2.06	0.55
28:BI:121:LYS:N	28:BI:121:LYS:HD3	2.22	0.55
22:BC:56:VAL:HG21	37:BR:89:ASP:OD1	2.06	0.55
37:BR:93:LEU:HD23	38:BS:20:LEU:HB2	1.88	0.55
18:B3:2237:G:H1'	18:B3:2238:A:C8	2.42	0.55
31:BL:26:VAL:HG12	31:BL:26:VAL:O	2.07	0.55
18:B3:1784:U:O2	35:BP:77:TYR:CE2	2.60	0.55
18:B3:2346:C:C5'	29:BJ:47:SER:HA	2.34	0.55
18:B3:2164:G:P	20:BA:162:VAL:HG11	2.46	0.55
20:BA:49:PHE:CE1	20:BA:54:LYS:N	2.75	0.55
39:BT:111:THR:O	39:BT:112:LEU:HB2	2.07	0.55
4:AC:11:VAL:HG21	14:AN:33:TYR:O	2.07	0.55
3:AB:121:ILE:HA	3:AB:143:ILE:CG1	2.32	0.55
5:AD:106:GLU:OE1	5:AD:115:LYS:HD3	2.07	0.55
37:BR:39:VAL:HG23	37:BR:39:VAL:O	2.06	0.55
1:AA:1348:U:C4'	9:AI:134:ARG:CB	2.72	0.55
27:BH:171:ASP:OD2	27:BH:174:LYS:HG2	2.07	0.55
27:BH:62:ARG:HD2	27:BH:62:ARG:C	2.27	0.55
27:BH:9:GLN:HA	27:BH:54:LYS:CG	2.37	0.55
27:BH:40:HIS:CA	32:BM:125:VAL:HG12	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:81:LYS:HD2	32:BM:82:ALA:N	2.22	0.55
18:B3:216:A:OP2	41:BV:58:ARG:HD3	2.06	0.55
46:BZ:67:VAL:HG11	46:BZ:69:LEU:HD22	1.87	0.55
1:AA:634:C:C6	16:AQ:92:TYR:CE2	2.95	0.55
40:BU:35:LEU:HB3	40:BU:39:LEU:HD23	1.88	0.55
18:B3:1327:G:N2	18:B3:1329:A:H3'	2.22	0.55
1:AA:1418:A:C2	18:B3:1989:G:C2	2.88	0.55
11:AK:57:TYR:HE1	11:AK:61:LEU:HD11	1.72	0.55
15:AO:87:LEU:HD13	15:AO:87:LEU:O	2.06	0.55
6:AE:115:LYS:HB2	6:AE:127:GLY:N	2.22	0.55
18:B3:499:G:H4'	33:BN:19:SER:HB2	1.88	0.55
24:BE:88:ILE:HG12	24:BE:89:THR:N	2.22	0.55
10:AJ:84:MET:HA	10:AJ:84:MET:HE3	1.88	0.55
26:BG:182:LYS:HD3	26:BG:182:LYS:N	2.22	0.55
29:BJ:6:ASN:HB3	29:BJ:7:PRO:CD	2.37	0.55
1:AA:1299:A:C5'	13:AM:27:LYS:HE3	2.37	0.54
13:AM:100:THR:CG2	13:AM:105:VAL:HG13	2.37	0.54
45:BY:12:ASN:C	45:BY:13:LYS:HE3	2.27	0.54
1:AA:1131:G:H1	1:AA:1143:G:N2	2.01	0.54
9:AI:18:VAL:HG23	9:AI:18:VAL:O	2.07	0.54
10:AJ:30:LYS:HB3	10:AJ:33:GLN:HG3	1.90	0.54
10:AJ:50:LEU:HD21	10:AJ:93:LEU:HD12	1.90	0.54
19:B4:49:G:OP2	24:BE:98:ALA:HB3	2.07	0.54
18:B3:2413:A:N9	24:BE:175:HIS:N	2.53	0.54
36:BQ:62:GLY:HA2	36:BQ:78:LYS:HG2	1.89	0.54
18:B3:1370:G:O6	33:BN:24:SER:HB3	2.05	0.54
18:B3:1304:U:H5''	23:BD:193:TYR:CE1	2.41	0.54
18:B3:1343:C:H2'	23:BD:188:ALA:C	2.16	0.54
34:BO:62:VAL:HG11	34:BO:88:THR:N	2.22	0.54
47:B9:22:ARG:HD2	47:B9:24:GLN:CB	2.36	0.54
21:BB:187:LYS:NZ	21:BB:187:LYS:HA	2.20	0.54
18:B3:1459:A:O2'	21:BB:20:ARG:NH1	2.40	0.54
25:BF:109:ARG:HB3	25:BF:109:ARG:CZ	2.37	0.54
1:AA:190(E):U:C5	16:AQ:130:ILE:N	2.65	0.54
18:B3:2072:G:C6	18:B3:2533:C:H1'	2.42	0.54
18:B3:2671:U:H5'	22:BC:178:ALA:CA	1.97	0.54
18:B3:2717:C:P	22:BC:221:LYS:HE2	2.47	0.54
18:B3:2821:C:O2	22:BC:131:LYS:CE	2.41	0.54
18:B3:2837:U:H4'	22:BC:332:LYS:CD	2.37	0.54
22:BC:159:VAL:O	22:BC:179:GLU:HA	2.07	0.54
22:BC:17:PRO:CG	22:BC:19:LYS:HG2	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:43:VAL:HG11	28:BI:138:VAL:HG11	1.88	0.54
26:BG:107:ARG:HG2	26:BG:108:LEU:HD22	1.85	0.54
26:BG:161:LEU:HD13	31:BL:3:TYR:OH	2.07	0.54
18:B3:1815:A:C5'	18:B3:2751:C:C6	2.90	0.54
18:B3:2337:G:N3	29:BJ:127:TYR:CA	2.69	0.54
29:BJ:91:ARG:CZ	29:BJ:159:VAL:HG21	2.36	0.54
29:BJ:64:ILE:HG23	29:BJ:64:ILE:O	2.06	0.54
20:BA:55:LEU:CD1	20:BA:157:PHE:CA	2.33	0.54
39:BT:109:VAL:O	39:BT:109:VAL:HG13	2.07	0.54
10:AJ:67:THR:HG23	10:AJ:68:ARG:O	2.07	0.54
5:AD:101:VAL:C	5:AD:191:ALA:H	2.11	0.54
1:AA:619:U:H2'	5:AD:129:ILE:CD1	2.34	0.54
41:BV:18:LYS:C	41:BV:18:LYS:HD2	2.28	0.54
37:BR:31:ALA:HA	37:BR:32:ARG:CD	2.30	0.54
1:AA:1346:A:H5''	9:AI:134:ARG:NH2	1.92	0.54
18:B3:1103:C:H1'	32:BM:86:MET:HB3	1.88	0.54
1:AA:143:A:N7	1:AA:200:G:O2'	2.17	0.54
18:B3:1381:A:C5	43:BW:24:PHE:O	2.61	0.54
35:BP:28:THR:O	35:BP:28:THR:HG22	2.06	0.54
35:BP:52:LYS:HG2	35:BP:53:ALA:N	2.21	0.54
46:BZ:66:LYS:H	46:BZ:86:ARG:HD3	1.72	0.54
1:AA:1496:C:O2	1:AA:1518:A:C5	2.60	0.54
1:AA:1497:G:C2'	1:AA:1519:A:N6	2.68	0.54
1:AA:1406:U:N1	1:AA:1518:A:H5'	2.17	0.54
40:BU:27:ARG:HE	40:BU:28:ARG:H	1.55	0.54
40:BU:57:LEU:HD12	40:BU:59:VAL:HG12	1.88	0.54
5:AD:31:ALA:CB	5:AD:43:TYR:HE1	2.18	0.54
1:AA:1483:A:O2'	18:B3:2001:G:C4	2.60	0.54
1:AA:115:G:O2'	1:AA:116:A:OP2	2.22	0.54
18:B3:2692:G:H8	18:B3:2693:U:C5	2.25	0.54
21:BB:4:ILE:CG2	21:BB:208:HIS:HD2	2.20	0.54
32:BM:22:VAL:O	32:BM:22:VAL:HG22	2.08	0.54
6:AE:124:ILE:HG23	6:AE:125:ARG:N	2.22	0.54
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.42	0.54
18:B3:1495:C:H2'	18:B3:1496:G:C8	2.42	0.54
2:AT:296:ILE:HB	2:AT:297:PRO:HD3	1.88	0.54
18:B3:1289:C:O2'	18:B3:1290:G:H5'	2.07	0.54
18:B3:1367:A:H2'	18:B3:1368:U:O4'	2.07	0.54
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.06	0.54
1:AA:953:G:H2'	1:AA:954:G:O4'	2.07	0.54
9:AI:39:GLU:HB2	9:AI:42:ILE:HD11	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:36:C:H5'	24:BE:182:GLY:HA3	1.88	0.54
19:B4:2:U:O5'	19:B4:3:A:H5'	2.07	0.54
19:B4:47:A:OP2	24:BE:152:ARG:HG2	2.06	0.54
19:B4:69:U:O4'	24:BE:14:SER:CB	2.56	0.54
18:B3:27:U:O2'	18:B3:1318:A:C3'	2.54	0.54
18:B3:1343:C:OP1	23:BD:192:LYS:CB	2.55	0.54
23:BD:221:VAL:HG12	23:BD:224:VAL:HG12	1.88	0.54
18:B3:1164:U:C6	30:BK:51:LYS:CA	2.88	0.54
47:B9:22:ARG:HE	47:B9:25:VAL:H	1.54	0.54
21:BB:102:PRO:HB3	21:BB:160:ASP:C	2.28	0.54
21:BB:182:GLY:O	21:BB:183:ARG:HB2	2.07	0.54
18:B3:944:G:H4'	25:BF:97:LYS:HD3	1.69	0.54
22:BC:102:THR:HG21	22:BC:141:ALA:HA	1.89	0.54
18:B3:2671:U:O5'	22:BC:178:ALA:CB	2.52	0.54
22:BC:228:VAL:HA	22:BC:232:TRP:CZ2	2.42	0.54
22:BC:49:LYS:NZ	22:BC:333:ARG:H	2.05	0.54
28:BI:86:HIS:CG	28:BI:138:VAL:HG11	2.40	0.54
28:BI:15:LYS:HB3	28:BI:16:PRO:HD3	1.88	0.54
28:BI:56:GLU:HG3	28:BI:57:LEU:H	1.72	0.54
37:BR:77:ILE:HD12	37:BR:77:ILE:C	2.27	0.54
37:BR:54:LEU:HD21	37:BR:81:GLN:HB3	1.87	0.54
37:BR:96:GLU:CG	37:BR:97:ASP:H	2.03	0.54
22:BC:365:GLY:HA2	38:BS:35:LYS:CG	2.35	0.54
31:BL:193:GLN:NE2	31:BL:193:GLN:H	2.05	0.54
31:BL:43:ARG:CB	31:BL:46:LYS:HE3	2.37	0.54
18:B3:1567:A:P	35:BP:57:HIS:HD1	2.31	0.54
18:B3:1806:G:C4	18:B3:2884:G:C1'	2.90	0.54
7:AG:112:ILE:HD11	7:AG:189:ILE:HB	1.87	0.54
29:BJ:91:ARG:HB2	29:BJ:95:PHE:CZ	2.42	0.54
20:BA:49:PHE:CD1	20:BA:157:PHE:CD1	2.94	0.54
1:AA:449:C:C4'	5:AD:131:GLN:C	2.75	0.54
3:AB:92:THR:CG2	3:AB:181:LEU:HD21	2.26	0.54
3:AB:67:PRO:HG3	3:AB:180:VAL:HG13	1.89	0.54
6:AE:138:ILE:CD1	6:AE:217:ILE:HD11	2.36	0.54
1:AA:642:A:O2'	8:AH:104:THR:CG2	2.56	0.54
8:AH:52:ILE:HD13	8:AH:61:VAL:HG23	1.89	0.54
1:AA:33:A:H2'	1:AA:34:C:H6	1.72	0.54
27:BH:25:VAL:HG13	27:BH:26:LYS:N	2.21	0.54
18:B3:1244:U:OP2	32:BM:14:LEU:HD13	2.06	0.54
32:BM:58:ARG:C	32:BM:58:ARG:HD3	2.26	0.54
1:AA:778:G:H3'	11:AK:126:ARG:CD	2.36	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2437:A:O3'	46:BZ:14:LYS:HB2	2.06	0.54
46:BZ:82:LEU:H	46:BZ:82:LEU:CD2	2.20	0.54
18:B3:344:C:H2'	18:B3:345:G:O4'	2.07	0.54
40:BU:27:ARG:HH21	40:BU:28:ARG:HB3	1.72	0.54
18:B3:80:A:H5'	40:BU:74:TYR:HH	1.71	0.54
1:AA:865:A:H4'	1:AA:1079:G:C4	2.42	0.54
2:AT:748:ASN:ND2	18:B3:2508:C:O2	2.40	0.54
41:BV:123:ILE:HD13	41:BV:123:ILE:N	2.19	0.54
1:AA:118:U:H1'	1:AA:122:G:C2'	2.37	0.54
1:AA:1340:A:O2'	9:AI:141:TYR:CZ	2.60	0.54
18:B3:1523:G:C6	18:B3:1524:U:O4	2.60	0.54
32:BM:2:VAL:CG1	32:BM:32:ILE:HD11	2.37	0.54
20:BA:201:VAL:HG23	20:BA:201:VAL:O	2.06	0.54
12:AL:101:GLU:CB	12:AL:132:LEU:HD23	2.37	0.54
1:AA:1300:G:HO2'	1:AA:1301:U:H6	1.52	0.54
1:AA:989:C:O2	1:AA:1015:A:C2'	2.55	0.54
42:B0:54:LYS:O	42:B0:57:TYR:HD1	1.91	0.54
1:AA:1148:U:H4'	9:AI:9:PHE:HZ	1.71	0.54
10:AJ:116:VAL:HG12	10:AJ:117:VAL:N	2.22	0.54
23:BD:33:ILE:HD12	23:BD:33:ILE:N	2.23	0.54
23:BD:73:ILE:CG2	23:BD:75:ARG:HB2	2.35	0.54
18:B3:170:U:O4'	46:BZ:49:PHE:CD2	2.60	0.54
30:BK:113:ALA:HA	30:BK:132:ILE:HD11	1.90	0.54
30:BK:114:ARG:O	30:BK:117:ARG:HG3	2.07	0.54
18:B3:1855:G:C5	21:BB:149:LEU:CB	2.71	0.54
21:BB:28:LEU:HD11	21:BB:100:VAL:HG21	1.88	0.54
21:BB:134:ILE:C	21:BB:134:ILE:HD12	2.27	0.54
18:B3:1872:C:H5	21:BB:19:THR:HG1	1.54	0.54
18:B3:1100:G:OP2	19:B4:87:U:C2	2.60	0.54
25:BF:241:SER:C	25:BF:242:MET:HG2	2.27	0.54
1:AA:190(F):G:H4'	1:AA:190(G):G:OP2	2.07	0.54
1:AA:190(C):C:H41	16:AQ:112:PRO:HG3	1.72	0.54
22:BC:259:VAL:CG2	22:BC:261:TRP:HB3	2.38	0.54
22:BC:357:TRP:CA	38:BS:15:PRO:CB	2.81	0.54
22:BC:47:GLY:O	22:BC:48:TYR:HD1	1.89	0.54
22:BC:69:ARG:HG2	37:BR:89:ASP:HA	1.88	0.54
22:BC:81:PRO:HB2	22:BC:82:PRO:CA	2.36	0.54
22:BC:98:LEU:HD22	22:BC:98:LEU:H	1.73	0.54
28:BI:4:ARG:HG3	28:BI:5:PRO:HA	1.88	0.54
28:BI:79:VAL:HG13	28:BI:79:VAL:O	2.05	0.54
31:BL:99:ALA:CA	31:BL:168:LYS:HD3	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:23:ARG:NH1	31:BL:23:ARG:HB3	2.22	0.54
35:BP:86:ALA:O	35:BP:87:ARG:HG3	2.07	0.54
18:B3:919:U:O2'	41:BV:39:HIS:N	2.31	0.54
18:B3:2334:C:N4	29:BJ:115:TYR:HB3	2.21	0.54
29:BJ:80:GLU:O	29:BJ:81:ARG:HB2	2.08	0.54
39:BT:75:VAL:HG23	39:BT:75:VAL:O	2.06	0.54
14:AN:23:CYS:HB3	14:AN:37:ILE:CA	2.26	0.54
1:AA:620:C:P	5:AD:129:ILE:CD1	2.96	0.54
5:AD:95:TYR:HB3	5:AD:193:GLU:CB	2.30	0.54
8:AH:102:ILE:HG23	8:AH:125:LEU:HB2	1.89	0.54
12:AL:104:LEU:N	12:AL:104:LEU:HD12	2.22	0.54
2:AT:108:HIS:CE1	2:AT:540:ILE:HB	2.42	0.54
37:BR:74:MET:CG	37:BR:75:PRO:HA	2.36	0.54
27:BH:124:ARG:HA	27:BH:124:ARG:CZ	2.37	0.54
1:AA:1068:G:C5'	1:AA:1388:C:H5''	2.37	0.54
18:B3:1397:C:HO2'	35:BP:23:LEU:HD22	1.72	0.54
18:B3:1718:G:P	35:BP:20:LYS:NZ	2.79	0.54
35:BP:3:LEU:HD12	35:BP:31:ILE:CD1	2.33	0.54
46:BZ:67:VAL:HG22	46:BZ:87:CYS:SG	2.46	0.54
40:BU:100:HIS:CD2	40:BU:104:LEU:HB3	2.43	0.54
41:BV:6:LYS:HD3	41:BV:6:LYS:H	1.73	0.54
1:AA:125:U:C4'	1:AA:291:C:C4'	2.77	0.54
3:AB:41:PRO:O	3:AB:42:ASP:HB2	2.08	0.54
15:AO:84:PRO:O	15:AO:88:TYR:HD1	1.90	0.54
20:BA:85:MET:HG2	20:BA:89:ASP:OD1	2.07	0.54
37:BR:137:VAL:OXT	37:BR:137:VAL:HG12	2.07	0.54
34:BO:84:VAL:O	34:BO:84:VAL:HG13	2.07	0.54
18:B3:370:G:O2'	18:B3:371:U:H5'	2.07	0.54
30:BK:94:LYS:HE2	30:BK:95:ASP:OD1	2.08	0.54
29:BJ:11:LEU:N	29:BJ:11:LEU:HD12	2.22	0.54
6:AE:210:LEU:C	6:AE:210:LEU:HD12	2.28	0.54
13:AM:50:ALA:CA	13:AM:68:ARG:HD2	2.37	0.54
18:B3:1450:C:O2'	18:B3:1494:A:H5'	2.07	0.54
1:AA:1182:G:O2'	1:AA:1183:A:OP2	2.20	0.54
1:AA:989:C:H5''	1:AA:1013:G:N3	2.09	0.54
13:AM:92:ILE:CD1	13:AM:123:ARG:NH2	2.70	0.54
1:AA:950:U:H5	13:AM:140:THR:HB	1.66	0.54
1:AA:1223:C:C5'	17:AS:100:LYS:CE	2.85	0.54
1:AA:1318:A:O2'	17:AS:55:GLY:HA2	2.07	0.54
42:B0:42:VAL:HG13	42:B0:43:ARG:N	2.21	0.54
18:B3:622:G:C8	42:B0:36:LYS:HD3	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1151:A:C6	10:AJ:57:ARG:CZ	2.89	0.54
19:B4:7:G:C8	24:BE:22:ARG:HD3	2.43	0.54
1:AA:336:C:C6	1:AA:1434:A:O4'	2.60	0.54
42:B0:76:VAL:HB	42:B0:95:GLU:O	2.07	0.54
34:BO:43:PRO:O	34:BO:46:LYS:HB3	2.07	0.54
18:B3:1875:A:OP2	21:BB:150:PRO:HG3	2.07	0.54
18:B3:1025:C:C1'	25:BF:104:LEU:CD1	2.86	0.54
25:BF:152:PHE:HE2	25:BF:194:PHE:CD1	2.26	0.54
25:BF:153:GLY:CA	25:BF:200:PHE:HB3	2.37	0.54
1:AA:190(D):U:H5''	16:AQ:138:VAL:O	2.07	0.54
1:AA:190(E):U:C2	16:AQ:131:SER:CA	2.88	0.54
1:AA:254:G:C1'	16:AQ:79:MET:HE2	2.36	0.54
18:B3:953:G:C4'	36:BQ:13:TYR:CD2	2.88	0.54
18:B3:2283:G:C5'	28:BI:114:GLY:C	2.71	0.54
18:B3:2717:C:H2'	18:B3:2718:C:C5'	2.32	0.54
22:BC:236:LYS:O	22:BC:237:LEU:HB2	2.08	0.54
22:BC:259:VAL:HG22	22:BC:261:TRP:HA	1.88	0.54
22:BC:274:ARG:HG2	22:BC:274:ARG:NH1	2.22	0.54
28:BI:153:ARG:NH1	28:BI:154:ARG:HG3	2.22	0.54
18:B3:2520:G:H5'	28:BI:160:PRO:N	2.23	0.54
37:BR:46:LEU:C	37:BR:46:LEU:HD22	2.27	0.54
18:B3:1471:A:H2'	18:B3:1472:C:C6	2.43	0.54
26:BG:148:LYS:O	26:BG:149:LEU:HD13	2.08	0.54
31:BL:163:LEU:C	31:BL:163:LEU:HD13	2.28	0.54
31:BL:43:ARG:HH22	31:BL:47:ALA:HB2	1.72	0.54
31:BL:96:SER:HB2	31:BL:98:ARG:HB2	1.88	0.54
38:BS:52:THR:HG22	38:BS:54:LEU:N	2.22	0.54
29:BJ:121:ILE:O	29:BJ:121:ILE:HG23	2.06	0.54
29:BJ:159:VAL:HG13	29:BJ:159:VAL:O	2.07	0.54
18:B3:1445:G:O3'	39:BT:69:GLU:HB3	2.04	0.54
10:AJ:73:GLY:HA2	14:AN:25:SER:N	2.22	0.54
5:AD:86:LEU:HB3	5:AD:96:VAL:CG1	2.34	0.54
6:AE:156:LYS:HG2	8:AH:95:ALA:HB1	1.90	0.54
1:AA:35:G:H5'	12:AL:130:VAL:HG21	1.89	0.54
18:B3:2705:U:H5''	27:BH:122:LYS:NZ	2.09	0.54
27:BH:16:VAL:HG11	27:BH:82:VAL:CG1	2.37	0.54
27:BH:89:LYS:O	27:BH:90:MET:HG3	2.06	0.54
1:AA:144:G:O5'	1:AA:200:G:OP1	2.25	0.54
18:B3:1381:A:N6	43:BW:24:PHE:C	2.60	0.54
35:BP:41:ARG:CD	35:BP:44:VAL:HB	2.37	0.54
43:BW:27:ARG:HB3	43:BW:66:VAL:HG21	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:40:LYS:HD2	43:BW:47:ASP:HA	1.89	0.54
40:BU:39:LEU:HD12	40:BU:42:GLN:NE2	2.22	0.54
1:AA:21:G:C3'	1:AA:885:G:P	2.93	0.54
1:AA:829:G:HO2'	3:AB:126:ARG:HH22	1.49	0.54
18:B3:918:G:N3	41:BV:45:ASP:OD1	2.41	0.54
3:AB:58:LEU:HD12	3:AB:61:ARG:HH22	1.72	0.54
29:BJ:29:LEU:N	29:BJ:29:LEU:HD22	2.22	0.54
37:BR:104:ASN:CA	37:BR:110:LYS:HE2	2.37	0.54
27:BH:138:THR:HG23	27:BH:139:ASN:N	2.23	0.54
17:AS:69:GLU:O	17:AS:70:ASN:HB2	2.08	0.54
1:AA:1044:A:H2'	1:AA:1045:C:H5'	1.90	0.54
19:B4:103:A:H2'	19:B4:104:A:H8	1.71	0.54
2:AT:411:VAL:HG12	2:AT:412:ARG:N	2.22	0.54
13:AM:28:ILE:HG23	13:AM:29:VAL:N	2.23	0.54
1:AA:1329:A:N7	13:AM:97:ASP:OD1	2.40	0.54
17:AS:115:TYR:HB2	17:AS:118:GLU:HG3	1.90	0.54
1:AA:1317:C:C5	17:AS:56:PHE:CE1	2.81	0.54
18:B3:778:C:OP1	45:BY:9:LYS:HE3	2.07	0.54
18:B3:844:A:C4'	33:BN:133:GLY:HA3	2.37	0.54
42:B0:27:ARG:NH1	42:B0:28:VAL:HA	2.21	0.54
9:AI:51:LEU:CD2	9:AI:58:LYS:HZ2	2.17	0.54
18:B3:2328:U:P	24:BE:153:THR:HG21	2.45	0.54
24:BE:65:ILE:HG23	24:BE:66:SER:N	2.22	0.54
24:BE:95:TRP:CB	24:BE:99:TYR:HE2	2.16	0.54
36:BQ:85:LEU:O	36:BQ:87:LYS:HG3	2.07	0.54
18:B3:750:A:O4'	23:BD:116:GLU:CD	2.46	0.54
23:BD:38:PHE:HZ	23:BD:241:ALA:N	2.06	0.54
34:BO:130:ARG:NH1	34:BO:132:PRO:HB3	2.21	0.54
18:B3:721:A:C5'	34:BO:71:LEU:H	2.17	0.54
23:BD:73:ILE:HG13	23:BD:75:ARG:CB	2.37	0.54
23:BD:82:GLY:HA2	23:BD:83:ARG:NH2	2.23	0.54
18:B3:1164:U:C5	30:BK:49:ALA:HA	2.43	0.54
21:BB:103:LEU:HD13	21:BB:103:LEU:C	2.28	0.54
21:BB:179:LEU:H	21:BB:179:LEU:HD12	1.72	0.54
21:BB:244:LEU:C	21:BB:244:LEU:HD13	2.27	0.54
21:BB:43:ILE:C	21:BB:43:ILE:HD12	2.28	0.54
41:BV:63:GLN:HG3	41:BV:64:GLN:N	2.22	0.54
25:BF:101:VAL:O	25:BF:101:VAL:HG13	2.07	0.54
25:BF:153:GLY:HA2	25:BF:200:PHE:HB3	1.90	0.54
18:B3:68:U:H4'	44:BX:51:ILE:O	2.07	0.54
44:BX:32:LYS:O	44:BX:35:LYS:HB3	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:46:THR:O	44:BX:50:SER:HB2	2.08	0.54
18:B3:2038:A:OP1	37:BR:47:ASN:ND2	2.39	0.54
18:B3:2283:G:OP2	28:BI:115:MET:HB2	2.06	0.54
18:B3:2709:G:O2'	37:BR:125:LEU:HD22	2.08	0.54
18:B3:2828:G:P	22:BC:129:PHE:CD1	3.01	0.54
22:BC:286:LYS:HD3	22:BC:286:LYS:H	1.71	0.54
22:BC:83:VAL:HG12	22:BC:84:VAL:N	2.22	0.54
28:BI:166:ILE:HD12	28:BI:166:ILE:C	2.27	0.54
38:BS:22:VAL:HG22	38:BS:23:ARG:O	2.06	0.54
26:BG:105:LYS:HG3	26:BG:107:ARG:HH22	1.69	0.54
26:BG:162:VAL:HA	26:BG:165:LEU:HD21	1.86	0.54
31:BL:32:LYS:HG2	31:BL:36:HIS:ND1	2.21	0.54
18:B3:1593:C:P	35:BP:116:LYS:HB2	2.40	0.54
18:B3:2738:G:H4'	35:BP:62:THR:C	2.28	0.54
41:BV:25:ARG:HE	41:BV:25:ARG:N	2.06	0.54
29:BJ:140:ARG:NH1	29:BJ:141:LYS:H	2.05	0.54
18:B3:2347:C:H2'	29:BJ:17:VAL:HG21	1.90	0.54
29:BJ:78:ILE:C	29:BJ:78:ILE:HD12	2.27	0.54
18:B3:124:C:OP2	39:BT:87:MET:O	2.26	0.54
1:AA:1202:G:O2'	1:AA:1203:C:H5'	2.07	0.54
3:AB:120:VAL:O	3:AB:143:ILE:HG12	2.07	0.54
5:AD:119:ALA:HB1	5:AD:124:HIS:HB3	1.90	0.54
8:AH:104:THR:OG1	8:AH:125:LEU:HD21	2.08	0.54
6:AE:217:ILE:HG13	8:AH:98:PHE:CE1	2.33	0.54
27:BH:90:MET:CB	27:BH:181:VAL:HA	2.36	0.54
32:BM:119:VAL:HG22	32:BM:120:PRO:CD	2.38	0.54
18:B3:1382:G:H2'	43:BW:29:PRO:HG2	1.89	0.54
43:BW:31:ALA:HB1	43:BW:58:ILE:CD1	2.33	0.54
46:BZ:73:CYS:H	46:BZ:79:ARG:CG	2.14	0.54
40:BU:30:LEU:HB3	40:BU:78:PHE:CD2	2.42	0.54
40:BU:86:THR:CB	40:BU:97:ILE:HG23	2.37	0.54
2:AT:748:ASN:HB2	18:B3:2508:C:H1'	1.88	0.54
41:BV:101:ILE:HG22	41:BV:103:THR:H	1.72	0.54
1:AA:1503:A:O2'	1:AA:1504:G:OP1	2.26	0.54
1:AA:1341:U:C6	9:AI:141:TYR:CE1	2.95	0.54
6:AE:112:LEU:C	6:AE:112:LEU:HD13	2.28	0.54
1:AA:280:C:H1'	16:AQ:102:ARG:HG2	1.89	0.54
4:AC:131:LYS:NZ	4:AC:191:PRO:HD2	2.22	0.54
17:AS:64:LYS:C	17:AS:64:LYS:HD3	2.27	0.54
36:BQ:11:THR:HG23	36:BQ:12:ARG:N	2.12	0.54
8:AH:85:ILE:HG23	8:AH:85:ILE:O	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:86:LEU:HD12	3:AB:87:LYS:HA	1.89	0.54
1:AA:474:G:OP1	5:AD:137:GLY:HA2	2.07	0.54
43:BW:41:LEU:O	43:BW:41:LEU:HG	2.07	0.54
1:AA:985:C:H42	17:AS:79:HIS:CE1	2.26	0.54
13:AM:72:ILE:HG23	13:AM:73:MET:N	2.23	0.54
1:AA:1321:C:O5'	17:AS:118:GLU:HA	2.06	0.54
42:B0:15:LYS:HD2	42:B0:15:LYS:C	2.23	0.54
9:AI:111:TYR:HB3	9:AI:114:THR:OG1	2.08	0.54
19:B4:37:C:H1'	24:BE:154:THR:HG22	1.90	0.54
36:BQ:62:GLY:HA3	36:BQ:75:ILE:O	2.07	0.54
33:BN:104:LYS:C	33:BN:106:LEU:HD13	2.27	0.54
18:B3:751:U:OP1	23:BD:112:VAL:CA	2.50	0.54
18:B3:749:C:C2'	23:BD:116:GLU:OE1	2.56	0.54
23:BD:245:ARG:HH11	23:BD:246:PHE:N	2.06	0.54
34:BO:81:VAL:HG12	34:BO:138:LEU:CG	2.37	0.54
34:BO:74:GLU:HB2	34:BO:138:LEU:HG	1.88	0.54
34:BO:69:ARG:NH1	34:BO:92:ARG:HD3	2.13	0.54
18:B3:1181:A:O4'	30:BK:106:LEU:O	2.25	0.54
18:B3:1875:A:H5''	21:BB:127:ARG:HH21	1.60	0.54
21:BB:122:ARG:HG3	21:BB:123:GLY:O	2.08	0.54
21:BB:47:ILE:N	21:BB:47:ILE:HD13	2.18	0.54
21:BB:79:GLU:O	47:B9:64:ALA:CB	2.56	0.54
25:BF:117:LYS:HE3	25:BF:118:VAL:H	1.73	0.54
25:BF:101:VAL:HG21	25:BF:125:LEU:HB3	1.88	0.54
25:BF:152:PHE:CB	25:BF:200:PHE:HD2	2.20	0.54
18:B3:71:G:H22	44:BX:56:THR:CG2	2.21	0.54
18:B3:2769:C:H2'	18:B3:2770:G:O4'	2.07	0.54
22:BC:19:LYS:HA	22:BC:19:LYS:NZ	2.21	0.54
22:BC:282:TYR:CE2	22:BC:324:LYS:HB3	2.42	0.54
18:B3:2718:C:P	22:BC:331:ARG:HH21	2.29	0.54
22:BC:48:TYR:C	22:BC:78:VAL:HG13	2.28	0.54
22:BC:88:VAL:HG22	22:BC:157:VAL:HG21	1.89	0.54
22:BC:94:THR:HB	22:BC:95:PRO:CA	2.32	0.54
37:BR:11:PHE:CA	37:BR:86:ARG:HG3	2.38	0.54
26:BG:157:ASP:C	26:BG:159:ILE:H	2.09	0.54
35:BP:91:GLN:HA	35:BP:94:TRP:HE3	1.72	0.54
18:B3:2350:G:P	29:BJ:139:ARG:CD	2.91	0.54
29:BJ:15:LYS:HZ3	29:BJ:15:LYS:HB2	1.73	0.54
20:BA:165:LEU:HD12	20:BA:165:LEU:C	2.28	0.54
20:BA:180:VAL:O	20:BA:184:LEU:HG	2.07	0.54
39:BT:106:VAL:HG12	39:BT:125:LEU:CD2	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:84:GLN:HG2	39:BT:120:LYS:CA	2.37	0.54
8:AH:26:ILE:HD13	8:AH:37:LEU:HD21	1.89	0.54
8:AH:13:ILE:HG22	8:AH:77:ARG:NH2	2.23	0.54
1:AA:25:C:O4'	12:AL:109:ARG:CZ	2.54	0.54
12:AL:125:VAL:HG13	12:AL:125:VAL:O	2.08	0.54
1:AA:67:C:H2'	1:AA:70:G:C8	2.41	0.54
2:AT:108:HIS:CB	2:AT:536:LEU:HG	2.15	0.54
18:B3:1117:A:C2'	18:B3:1227:C:O4'	2.47	0.54
27:BH:126:VAL:HG23	27:BH:127:PRO:CD	2.38	0.54
27:BH:40:HIS:HE1	27:BH:67:ALA:HB1	1.69	0.54
32:BM:126:LEU:N	32:BM:126:LEU:HD23	2.23	0.54
1:AA:143:A:OP2	1:AA:201:C:C1'	2.55	0.54
35:BP:7:LYS:HZ3	35:BP:8:ARG:HH11	1.54	0.54
18:B3:2458:U:P	46:BZ:84:LEU:N	2.70	0.54
1:AA:1402:C:O2	1:AA:1500:A:N1	2.40	0.54
40:BU:31:LEU:HD12	40:BU:74:TYR:HB3	1.89	0.54
40:BU:38:GLU:C	40:BU:40:ARG:HE	2.10	0.54
5:AD:28:LEU:O	5:AD:29:LYS:HB2	2.08	0.54
41:BV:131:LYS:HE2	41:BV:134:GLU:OE2	2.07	0.54
13:AM:141:THR:O	13:AM:141:THR:HG22	2.05	0.54
1:AA:924:C:H5'	1:AA:1398:A:N7	2.23	0.54
1:AA:118:U:O2	1:AA:123:C:O4'	2.25	0.54
18:B3:2434:A:P	46:BZ:35:PHE:CD1	3.01	0.54
1:AA:597:G:H21	8:AH:88:TRP:HZ2	1.52	0.54
4:AC:150:LYS:O	4:AC:151:PHE:HB2	2.08	0.54
18:B3:1096:U:HO2'	25:BF:213:TRP:HZ3	0.78	0.54
3:AB:109:TYR:CZ	3:AB:114:PHE:HB3	2.42	0.54
7:AG:215:GLU:HA	7:AG:215:GLU:OE1	2.07	0.54
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.72	0.54
1:AA:988:G:C5	1:AA:1015:A:C5	2.88	0.54
1:AA:989:C:C6	1:AA:1016:A:N1	2.75	0.54
1:AA:985:C:N4	17:AS:77:ARG:NH2	2.55	0.54
18:B3:777:U:C1'	45:BY:12:ASN:ND2	2.63	0.54
42:B0:32:TRP:HH2	42:B0:34:LYS:CD	2.15	0.54
9:AI:30:VAL:CG2	9:AI:66:VAL:HG13	2.30	0.54
10:AJ:33:GLN:OE1	10:AJ:111:GLY:HA3	2.07	0.54
24:BE:146:LEU:HD11	24:BE:163:LEU:HD12	1.90	0.54
19:B4:7:G:OP1	24:BE:30:TYR:HE1	1.91	0.54
24:BE:30:TYR:O	24:BE:31:TYR:HB3	2.07	0.54
24:BE:36:LEU:C	24:BE:36:LEU:HD12	2.28	0.54
36:BQ:63:VAL:HG22	36:BQ:77:ASN:HB3	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BQ:51:GLY:HA3	36:BQ:92:ARG:HB2	1.90	0.54
18:B3:492:C:H4'	33:BN:103:ALA:HB2	1.90	0.54
33:BN:44:GLN:C	33:BN:46:TYR:H	2.05	0.54
18:B3:520:A:C5'	18:B3:1322:G:OP1	2.55	0.54
23:BD:150:VAL:HB	23:BD:251:GLU:HG2	1.90	0.54
23:BD:207:VAL:HG23	23:BD:225:GLU:HG2	1.89	0.54
18:B3:894:A:OP2	23:BD:57:HIS:CB	2.56	0.54
18:B3:473:A:O5'	45:BY:48:TRP:HZ2	1.90	0.54
18:B3:1183:C:O3'	30:BK:85:LEU:HD12	2.07	0.54
18:B3:1874:U:HO2'	21:BB:125:LEU:HA	1.71	0.54
21:BB:87:ILE:HG23	21:BB:87:ILE:O	2.08	0.54
25:BF:102:LEU:O	25:BF:105:LEU:HB2	2.08	0.54
18:B3:1132:A:O2'	18:B3:2521:A:C4'	0.83	0.54
18:B3:2489:G:C3'	18:B3:2490:A:C8	2.88	0.54
18:B3:2545:U:O2'	22:BC:238:PRO:CB	2.51	0.54
22:BC:16:LEU:CB	22:BC:17:PRO:HA	2.38	0.54
18:B3:2809:G:C2'	22:BC:16:LEU:O	2.55	0.54
22:BC:207:VAL:O	22:BC:208:PHE:HB3	2.07	0.54
22:BC:221:LYS:H	22:BC:221:LYS:CE	2.08	0.54
22:BC:333:ARG:O	22:BC:333:ARG:HD2	2.07	0.54
22:BC:39:PRO:HD3	22:BC:184:GLY:HA3	1.88	0.54
28:BI:10:ARG:CD	28:BI:160:PRO:HG2	2.18	0.54
26:BG:151:LEU:H	26:BG:198:ALA:CB	2.20	0.54
31:BL:107:ARG:NH1	31:BL:110:ALA:HA	2.23	0.54
31:BL:146:ARG:O	31:BL:147:TYR:HB3	2.07	0.54
35:BP:81:LYS:HD2	35:BP:81:LYS:H	1.73	0.54
18:B3:2345:A:H5''	29:BJ:48:LYS:HD3	1.45	0.54
4:AC:20:LEU:HD21	4:AC:76:PHE:CE1	2.43	0.54
1:AA:35:G:H2'	1:AA:36:C:C6	2.42	0.54
1:AA:551:U:C2	12:AL:47:SER:OG	2.61	0.54
1:AA:521:G:C5'	12:AL:89:ASN:H	2.21	0.54
2:AT:138:GLN:N	18:B3:2697:A:H4'	2.23	0.54
2:AT:141:THR:HG23	2:AT:483:PHE:CG	2.40	0.54
18:B3:2566:A:H4'	27:BH:174:LYS:HZ3	1.73	0.54
27:BH:27:VAL:HG11	27:BH:78:MET:O	2.08	0.54
32:BM:72:PHE:C	32:BM:78:ILE:HD11	2.27	0.54
1:AA:144:G:O6	1:AA:199:G:C4'	2.56	0.54
35:BP:22:TRP:HE3	35:BP:51:LYS:CB	2.16	0.54
43:BW:18:ARG:HB3	43:BW:27:ARG:NH2	2.23	0.54
41:BV:81:ILE:HG22	41:BV:120:VAL:HG13	1.90	0.54
41:BV:97:THR:CB	41:BV:124:VAL:HA	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:A:C2'	18:B3:2001:G:N3	2.70	0.54
20:BA:130:LYS:HG3	20:BA:131:ALA:N	2.23	0.54
3:AB:110:ILE:HG23	3:AB:111:THR:N	2.23	0.54
1:AA:57:G:C1'	1:AA:368:U:N3	2.71	0.54
4:AC:105:LYS:HB3	4:AC:174:VAL:HG22	1.90	0.54
20:BA:187:VAL:O	20:BA:191:VAL:HG23	2.07	0.54
1:AA:556:C:C2'	1:AA:557:G:H5'	2.38	0.54
22:BC:143:ILE:HG23	22:BC:147:LEU:CD1	2.38	0.54
11:AK:73:VAL:HG12	11:AK:73:VAL:O	2.07	0.54
42:B0:111:ARG:HG3	42:B0:111:ARG:O	2.08	0.54
6:AE:192:VAL:HG11	6:AE:195:VAL:HG11	1.88	0.54
18:B3:1603:A:H5'	18:B3:1605:G:O4'	2.07	0.54
18:B3:1972:U:C2'	18:B3:1973:A:H5'	2.37	0.54
15:AO:75:LYS:HD2	15:AO:76:SER:CA	2.37	0.54
1:AA:818:G:C3'	1:AA:819:A:C5'	2.83	0.54
12:AL:34:LEU:HD23	12:AL:35:GLY:H	1.71	0.54
18:B3:1195:G:O2'	18:B3:1196:C:H5'	2.08	0.54
2:AT:154:VAL:HG11	2:AT:337:MET:HB3	1.88	0.54
20:BA:75:ASP:HA	20:BA:78:LYS:HE3	1.88	0.54
1:AA:1300:G:O5'	13:AM:26:ILE:HD11	2.07	0.54
1:AA:978:A:HO2'	17:AS:81:ARG:HG3	1.71	0.54
18:B3:541:C:OP2	42:B0:15:LYS:CE	2.46	0.54
42:B0:17:PHE:O	42:B0:18:LYS:HD3	2.08	0.54
42:B0:54:LYS:N	42:B0:54:LYS:HD3	2.22	0.54
1:AA:1176:A:H3'	9:AI:107:ALA:C	2.20	0.54
19:B4:49:G:H8	24:BE:158:ARG:HD3	0.72	0.54
24:BE:207:TYR:CZ	24:BE:208:MET:HB3	2.42	0.54
24:BE:74:VAL:O	24:BE:74:VAL:HG13	2.07	0.54
36:BQ:97:LYS:HE3	36:BQ:98:HIS:CE1	2.43	0.54
1:AA:318:G:HO2'	1:AA:1468:A:C5'	2.20	0.54
33:BN:66:ILE:HG12	33:BN:79:LYS:HD3	1.89	0.54
42:B0:83:GLU:O	42:B0:85:LEU:HD22	2.06	0.54
18:B3:26:U:O2'	18:B3:1320:U:OP2	2.13	0.54
23:BD:215:VAL:CG2	23:BD:218:LEU:HD23	2.34	0.54
34:BO:81:VAL:HG12	34:BO:138:LEU:HD13	1.88	0.54
18:B3:635:A:P	23:BD:91:ASN:ND2	2.81	0.54
31:BL:82:LYS:HE2	46:BZ:49:PHE:HB3	1.79	0.54
18:B3:1875:A:O2'	21:BB:150:PRO:C	2.46	0.54
25:BF:206:LEU:HG	25:BF:208:ASN:H	1.73	0.54
18:B3:952:G:H5''	36:BQ:14:MET:SD	2.47	0.54
18:B3:2526:C:O2'	18:B3:2605:G:P	2.66	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2312:G:C5'	28:BI:22:TYR:HD1	2.03	0.54
18:B3:2656:G:C5'	22:BC:19:LYS:NZ	2.67	0.54
18:B3:2819:C:O3'	22:BC:101:LEU:N	2.19	0.54
22:BC:113:VAL:HG12	22:BC:117:PHE:CB	2.37	0.54
22:BC:228:VAL:HB	22:BC:232:TRP:CZ2	2.42	0.54
22:BC:49:LYS:HG2	22:BC:331:ARG:C	2.28	0.54
22:BC:304:ILE:HD13	22:BC:358:ILE:CD1	2.37	0.54
28:BI:102:MET:CE	28:BI:102:MET:HA	2.38	0.54
28:BI:93:PRO:O	28:BI:125:LEU:HB3	2.08	0.54
37:BR:9:THR:O	37:BR:11:PHE:HD2	1.91	0.54
37:BR:19:VAL:HG22	37:BR:20:GLY:N	2.23	0.54
18:B3:2720:C:P	38:BS:17:ARG:NH1	2.59	0.54
26:BG:150:VAL:CB	26:BG:198:ALA:HB1	2.36	0.54
35:BP:137:LEU:HA	35:BP:140:HIS:ND1	2.23	0.54
18:B3:919:U:C2	41:BV:41:ARG:HB3	2.35	0.54
29:BJ:18:LEU:HD12	29:BJ:19:ASN:N	2.23	0.54
18:B3:2345:A:O3'	29:BJ:64:ILE:HG21	2.00	0.54
39:BT:84:GLN:HG2	39:BT:121:ALA:N	2.23	0.54
14:AN:30:VAL:HG22	14:AN:32:LYS:H	1.73	0.54
3:AB:170:GLY:O	3:AB:174:TYR:HD2	1.91	0.54
1:AA:641:U:C4'	8:AH:106:SER:OG	2.56	0.54
8:AH:17:GLU:HA	8:AH:64:LEU:HD23	1.89	0.54
37:BR:60:ALA:H	37:BR:74:MET:HB3	1.70	0.54
27:BH:106:LYS:O	27:BH:111:PHE:HB3	2.08	0.54
27:BH:64:HIS:C	32:BM:127:ARG:HB3	2.28	0.54
32:BM:14:LEU:HG	32:BM:121:GLN:OE1	2.07	0.54
35:BP:16:VAL:CB	35:BP:20:LYS:HE2	2.37	0.54
18:B3:79:G:H5''	40:BU:28:ARG:HB2	1.82	0.54
40:BU:43:TYR:OH	40:BU:48:LEU:HD11	2.08	0.54
18:B3:1330:A:H4'	41:BV:11:ARG:NH1	2.23	0.54
18:B3:881:C:OP1	18:B3:883:U:H5	1.90	0.54
32:BM:33:VAL:CG1	32:BM:102:LYS:HB2	2.34	0.54
4:AC:155:PHE:HB3	4:AC:157:ILE:O	2.08	0.54
7:AG:169:GLN:O	7:AG:173:LEU:HG	2.07	0.54
30:BK:93:LYS:NZ	30:BK:96:LYS:HD3	2.23	0.54
3:AB:86:LEU:HD12	3:AB:87:LYS:CA	2.37	0.54
1:AA:939:G:H2'	1:AA:940:C:H6	1.69	0.54
24:BE:129:TYR:HE2	24:BE:131:LEU:HB2	1.73	0.54
22:BC:140:GLY:O	22:BC:144:GLU:HG2	2.07	0.54
18:B3:1790:C:H2'	18:B3:1791:U:H6	1.73	0.54
21:BB:156:VAL:HG23	21:BB:156:VAL:O	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:42:ALA:HB2	24:BE:49:TYR:CD1	2.43	0.54
36:BQ:42:ILE:O	36:BQ:43:LYS:HG3	2.08	0.54
36:BQ:77:ASN:HA	36:BQ:87:LYS:HB3	1.89	0.54
36:BQ:74:VAL:O	36:BQ:89:LEU:HB3	2.07	0.54
36:BQ:91:LEU:C	36:BQ:91:LEU:HD12	2.27	0.54
33:BN:35:ILE:HD13	33:BN:35:ILE:N	2.19	0.54
18:B3:518:G:C5'	18:B3:1338:U:C2'	2.60	0.54
18:B3:27:U:O4'	18:B3:1319:G:H3'	2.06	0.54
18:B3:657:G:H4'	23:BD:119:TYR:HE2	1.73	0.54
23:BD:256:LYS:HG2	23:BD:259:GLN:CB	2.35	0.54
34:BO:42:ALA:CB	34:BO:134:GLY:H	2.17	0.54
18:B3:1653:A:N6	21:BB:183:ARG:CZ	2.70	0.54
25:BF:233:GLU:OE1	25:BF:233:GLU:HA	2.06	0.54
1:AA:190(E):U:P	16:AQ:137:ASN:CB	2.93	0.54
18:B3:2526:C:C5'	18:B3:2605:G:H5'	2.27	0.54
18:B3:2840:A:OP1	22:BC:224:GLY:C	2.46	0.54
22:BC:114:LYS:HG2	22:BC:119:LYS:HD3	1.90	0.54
22:BC:204:VAL:HG23	22:BC:205:ASP:N	2.23	0.54
22:BC:214:ILE:HG23	22:BC:339:LYS:O	2.07	0.54
22:BC:46:LEU:CD2	22:BC:336:THR:HB	2.38	0.54
28:BI:139:ARG:HD3	28:BI:139:ARG:N	2.23	0.54
18:B3:187:A:H3'	18:B3:188:C:C6	2.43	0.54
31:BL:103:GLU:HG2	31:BL:104:ARG:CZ	2.37	0.54
18:B3:166:A:H5''	41:BV:35:GLY:H	1.73	0.54
18:B3:2350:G:N7	29:BJ:115:TYR:CE2	2.76	0.54
29:BJ:95:PHE:HB3	29:BJ:101:PHE:CA	2.38	0.54
20:BA:57:ASN:O	20:BA:58:CYS:HB3	2.08	0.54
1:AA:619:U:H5'	5:AD:132:ARG:HG2	1.89	0.54
8:AH:36:PHE:HD1	8:AH:102:ILE:HD13	1.65	0.54
8:AH:75:SER:HB3	8:AH:76:PRO:CD	2.38	0.54
1:AA:69:G:H2'	1:AA:171:A:C5	2.40	0.54
37:BR:23:MET:SD	37:BR:34:LEU:HD21	2.47	0.54
37:BR:70:ARG:NH2	37:BR:71:LYS:HB2	2.23	0.54
1:AA:1346:A:H4'	1:AA:1347:G:O5'	2.08	0.54
27:BH:104:VAL:HG22	27:BH:105:GLU:H	1.73	0.54
27:BH:129:ARG:HD2	27:BH:156:GLN:HE22	1.73	0.54
27:BH:39:LYS:HD3	27:BH:39:LYS:C	2.28	0.54
32:BM:128:LEU:CB	32:BM:131:GLY:HA3	2.35	0.54
1:AA:778:G:O3'	11:AK:127:LYS:O	2.26	0.54
1:AA:714:G:O6	11:AK:123:ASP:N	2.34	0.54
46:BZ:66:LYS:N	46:BZ:86:ARG:HD3	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:64:THR:HG1	46:BZ:86:ARG:HB3	1.73	0.54
40:BU:58:VAL:HG13	40:BU:59:VAL:N	2.22	0.54
1:AA:919:A:H5'	1:AA:1079:G:H22	1.71	0.54
18:B3:904:U:OP1	41:BV:14:VAL:HA	2.08	0.54
15:AO:107:ASP:OD2	15:AO:110:ALA:HB2	2.07	0.54
21:BB:203:MET:CA	21:BB:203:MET:HE2	2.37	0.54
18:B3:2222:C:H5''	20:BA:215:ARG:HH21	1.71	0.54
34:BO:98:LYS:HB2	34:BO:98:LYS:NZ	2.23	0.54
24:BE:87:GLY:HA2	24:BE:222:LEU:HD23	1.88	0.54
20:BA:194:LEU:HG	20:BA:196:LYS:H	1.71	0.54
4:AC:79:ALA:HB3	4:AC:80:PRO:CD	2.36	0.54
18:B3:2909:G:O2'	18:B3:2910:A:C5'	2.56	0.54
38:BS:6:ASP:OD1	38:BS:13:ILE:HG12	2.08	0.54
1:AA:1314:C:C5	17:AS:48:GLY:O	2.61	0.54
9:AI:100:SER:OG	9:AI:116:LEU:HD13	2.08	0.54
19:B4:28:U:OP2	24:BE:56:THR:OG1	2.16	0.54
36:BQ:76:ILE:HG12	36:BQ:78:LYS:C	2.29	0.54
18:B3:2424:U:H4'	36:BQ:7:TYR:HD2	1.71	0.54
36:BQ:77:ASN:HA	36:BQ:87:LYS:CB	2.38	0.54
18:B3:27:U:O2	18:B3:1318:A:N6	2.35	0.54
18:B3:646:G:H2'	18:B3:647:U:H6	1.73	0.54
23:BD:106:ARG:HD2	23:BD:108:TRP:CG	2.43	0.54
18:B3:646:G:C5'	23:BD:106:ARG:NH2	2.70	0.54
23:BD:232:LEU:HB2	23:BD:256:LYS:HZ3	1.72	0.54
47:B9:35:ARG:HD3	47:B9:44:LYS:HG2	1.86	0.54
21:BB:10:GLY:O	21:BB:15:PHE:HD2	1.91	0.54
21:BB:162:ARG:HH11	21:BB:163:GLY:CA	2.20	0.54
21:BB:187:LYS:C	21:BB:190:LEU:HD22	2.27	0.54
21:BB:57:LEU:HB3	21:BB:74:ILE:HG23	1.90	0.54
19:B4:86:G:N9	25:BF:220:LYS:N	2.54	0.54
25:BF:82:LEU:HD22	25:BF:82:LEU:C	2.28	0.54
39:BT:59:TYR:OH	44:BX:55:LEU:HD11	1.94	0.54
18:B3:2681:A:N6	18:B3:2714:U:H4'	2.22	0.54
22:BC:105:TRP:CZ2	22:BC:138:GLN:HB3	2.42	0.54
22:BC:188:SER:HA	22:BC:191:VAL:HG22	1.90	0.54
22:BC:281:ILE:HG23	22:BC:281:ILE:O	2.08	0.54
22:BC:92:VAL:HB	22:BC:101:LEU:CD2	2.36	0.54
28:BI:98:ARG:HH21	28:BI:110:ARG:HB3	1.73	0.54
37:BR:15:LEU:HD12	37:BR:52:ALA:C	2.28	0.54
26:BG:111:GLU:HB3	26:BG:213:LEU:CD1	2.38	0.54
26:BG:152:ILE:HD11	26:BG:162:VAL:HB	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:130:ALA:HB3	26:BG:202:VAL:HB	1.90	0.54
18:B3:182:G:O2'	31:BL:158:ARG:CZ	2.56	0.54
1:AA:1240:U:C4'	7:AG:188:THR:CG2	2.86	0.54
18:B3:2337:G:P	29:BJ:103:PHE:CA	2.96	0.54
29:BJ:95:PHE:HB3	29:BJ:101:PHE:N	2.23	0.54
20:BA:9:VAL:CG2	20:BA:180:VAL:HG13	2.31	0.54
39:BT:102:TYR:CD2	39:BT:104:VAL:HG23	2.43	0.54
10:AJ:70:THR:HB	14:AN:40:GLN:CA	2.37	0.54
1:AA:620:C:H2'	1:AA:621:A:O4'	2.08	0.54
3:AB:32:GLN:HG3	3:AB:32:GLN:O	2.07	0.54
5:AD:99:LEU:HG	5:AD:107:ARG:N	2.19	0.54
5:AD:116:LEU:HB2	5:AD:118:LEU:CD2	2.38	0.54
2:AT:140:GLU:CD	2:AT:481:MET:HA	2.29	0.54
2:AT:464:LEU:CD1	2:AT:510:ARG:N	2.62	0.54
18:B3:2560:C:O2'	18:B3:2777:G:O4'	2.25	0.54
27:BH:77:ASN:ND2	27:BH:151:VAL:HB	2.15	0.54
27:BH:40:HIS:HE1	32:BM:127:ARG:NH1	1.94	0.54
27:BH:63:LYS:CB	32:BM:131:GLY:N	2.70	0.54
32:BM:128:LEU:HB3	32:BM:131:GLY:N	2.23	0.54
18:B3:1381:A:C6	43:BW:24:PHE:O	2.59	0.54
35:BP:21:VAL:HA	35:BP:22:TRP:CE3	2.43	0.54
40:BU:99:LEU:HD12	40:BU:99:LEU:H	1.73	0.54
1:AA:545:C:C5'	5:AD:66:ASP:OD2	2.56	0.54
41:BV:74:LEU:HD11	41:BV:117:ILE:HG21	1.90	0.54
18:B3:49:A:C2	18:B3:113:A:C4	2.95	0.54
31:BL:137:GLN:O	31:BL:137:GLN:HG3	2.07	0.54
11:AK:56:PRO:CD	11:AK:88:THR:HG21	2.34	0.54
3:AB:108:ASN:ND2	3:AB:111:THR:HB	2.23	0.54
7:AG:198:ILE:HG23	7:AG:199:ASN:N	2.22	0.54
12:AL:52:ILE:C	12:AL:52:ILE:HD12	2.28	0.54
41:BV:34:ALA:HB3	41:BV:43:ASN:HB2	1.90	0.54
18:B3:37:A:H2'	18:B3:38:G:C8	2.43	0.54
1:AA:26:A:N6	1:AA:558:G:H1'	2.22	0.54
18:B3:88:G:H2'	18:B3:89:G:C8	2.43	0.54
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.73	0.53
13:AM:129:TRP:HZ3	17:AS:121:ILE:CB	2.20	0.53
13:AM:35:ILE:HG22	13:AM:36:LYS:N	2.22	0.53
13:AM:66:LEU:HD23	13:AM:66:LEU:C	2.28	0.53
13:AM:88:ARG:NH2	13:AM:111:ASP:HB3	2.23	0.53
18:B3:618:G:C4	42:B0:49:ASN:N	2.76	0.53
1:AA:1250:A:C4'	9:AI:71:GLY:N	2.70	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:111:ARG:CG	9:AI:43:LEU:HD21	2.38	0.53
9:AI:98:GLU:N	9:AI:102:ASN:C	2.62	0.53
24:BE:105:ILE:HG23	24:BE:106:ALA:N	2.23	0.53
33:BN:74:GLU:HG2	33:BN:75:PHE:O	2.08	0.53
33:BN:90:VAL:O	33:BN:93:LEU:HG	2.07	0.53
42:B0:103:LYS:H	42:B0:103:LYS:CD	2.21	0.53
18:B3:35:U:C4'	23:BD:49:TYR:CA	2.86	0.53
23:BD:181:LEU:HD11	23:BD:185:LYS:HG2	1.90	0.53
23:BD:190:LYS:HD3	23:BD:193:TYR:CE1	2.43	0.53
23:BD:137:ARG:HD3	23:BD:242:HIS:HB3	1.89	0.53
34:BO:32:LEU:HD11	34:BO:128:ALA:HB1	1.90	0.53
34:BO:40:THR:HG22	34:BO:41:ASP:H	1.72	0.53
47:B9:28:LEU:HD13	47:B9:28:LEU:N	2.23	0.53
47:B9:31:GLN:O	47:B9:32:GLN:HB2	2.08	0.53
47:B9:72:THR:HG22	47:B9:73:ALA:H	1.73	0.53
18:B3:1067:A:OP1	25:BF:96:PRO:CB	2.55	0.53
25:BF:172:LEU:C	25:BF:172:LEU:HD13	2.27	0.53
18:B3:1287:A:C6	25:BF:201:LEU:HD13	2.43	0.53
16:AQ:85:ILE:CD1	16:AQ:124:VAL:HB	2.38	0.53
1:AA:537:G:O5'	12:AL:143:PRO:HG3	2.03	0.53
22:BC:90:GLY:C	22:BC:101:LEU:HG	2.24	0.53
18:B3:2668:G:C2'	22:BC:128:ALA:HB1	2.38	0.53
22:BC:39:PRO:HG2	22:BC:182:LEU:HB2	1.86	0.53
22:BC:336:THR:HG22	22:BC:337:LEU:N	2.23	0.53
22:BC:91:TYR:HD1	22:BC:99:ARG:O	1.90	0.53
37:BR:17:LEU:O	37:BR:52:ALA:HB3	2.08	0.53
31:BL:132:ILE:HG22	31:BL:133:LEU:N	2.22	0.53
31:BL:43:ARG:CG	31:BL:46:LYS:HE3	2.37	0.53
18:B3:2890:A:C2	38:BS:51:TRP:C	2.81	0.53
20:BA:57:ASN:HD22	20:BA:155:ILE:HD12	1.68	0.53
20:BA:162:VAL:HG12	20:BA:163:LEU:N	2.23	0.53
18:B3:2169:C:C5'	20:BA:28:PHE:HZ	2.09	0.53
20:BA:54:LYS:HZ1	20:BA:153:SER:HB2	1.72	0.53
20:BA:63:MET:HE2	20:BA:160:LYS:NZ	2.21	0.53
5:AD:100:LYS:HG2	5:AD:196:GLU:HA	1.90	0.53
8:AH:43:HIS:HE1	8:AH:111:ASP:HB2	1.72	0.53
1:AA:24:U:O2'	12:AL:110:LYS:HE3	2.07	0.53
12:AL:74:VAL:HG23	12:AL:83:VAL:HG22	1.89	0.53
18:B3:1398:G:C1'	35:BP:25:PRO:HG2	2.38	0.53
46:BZ:15:THR:HB	46:BZ:78:THR:CG2	2.37	0.53
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:794:A:H2'	1:AA:795:C:C6	2.43	0.53
40:BU:21:THR:O	40:BU:22:ALA:HB2	2.08	0.53
41:BV:132:LEU:N	41:BV:132:LEU:HD23	2.21	0.53
41:BV:81:ILE:HD11	41:BV:86:ARG:CZ	2.38	0.53
11:AK:42:THR:HG23	11:AK:58:ALA:HB1	1.86	0.53
4:AC:105:LYS:HB2	4:AC:172:ARG:HG2	1.89	0.53
1:AA:1191:A:H2'	1:AA:1192:C:C6	2.43	0.53
30:BK:93:LYS:HZ1	30:BK:96:LYS:HE2	1.73	0.53
12:AL:100:ASP:CB	12:AL:132:LEU:HG	2.38	0.53
18:B3:1588:G:C6	18:B3:1589:G:N1	2.77	0.53
44:BX:36:LEU:CD1	44:BX:36:LEU:H	2.18	0.53
1:AA:1003:G:C2	1:AA:1003(A):G:C6	2.95	0.53
12:AL:30:LYS:HD2	12:AL:30:LYS:N	2.23	0.53
7:AG:124:THR:HG22	7:AG:126:GLN:H	1.72	0.53
18:B3:1220:U:H2'	18:B3:1221:G:H8	1.73	0.53
1:AA:988:G:N9	1:AA:1015:A:C5	2.75	0.53
13:AM:62:THR:HG22	13:AM:63:GLN:N	2.23	0.53
1:AA:959:A:C5	17:AS:100:LYS:CB	2.91	0.53
1:AA:1316:G:O6	17:AS:50:THR:OG1	2.27	0.53
18:B3:540:A:OP1	42:B0:18:LYS:N	2.41	0.53
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.43	0.53
10:AJ:88:LYS:HG3	10:AJ:89:ARG:N	2.23	0.53
19:B4:51:A:C4	24:BE:58:LYS:HB2	1.14	0.53
24:BE:17:GLN:OE1	36:BQ:19:PHE:CE2	2.61	0.53
36:BQ:54:HIS:C	36:BQ:55:LYS:HD3	2.28	0.53
33:BN:29:ARG:HB3	33:BN:29:ARG:NH1	2.23	0.53
34:BO:82:VAL:N	34:BO:101:VAL:HG11	2.21	0.53
34:BO:65:SER:O	34:BO:66:ARG:HB3	2.08	0.53
18:B3:765:G:H5'	23:BD:84:SER:OG	2.08	0.53
18:B3:894:A:OP2	23:BD:57:HIS:CD2	2.62	0.53
30:BK:18:VAL:H	30:BK:21:GLU:CD	2.12	0.53
18:B3:1900:A:P	21:BB:225:SER:CA	2.94	0.53
25:BF:159:ARG:O	25:BF:159:ARG:HD2	2.09	0.53
25:BF:198:ASN:HB3	25:BF:200:PHE:CE2	2.42	0.53
25:BF:91:ILE:C	25:BF:91:ILE:HD13	2.29	0.53
40:BU:90:VAL:HG13	40:BU:91:ASN:N	2.22	0.53
18:B3:2671:U:O2'	22:BC:158:ARG:CD	2.52	0.53
22:BC:115:ARG:HG3	22:BC:173:LYS:NZ	2.22	0.53
22:BC:118:TYR:HB3	22:BC:132:TYR:HD1	1.73	0.53
28:BI:87:LEU:C	28:BI:87:LEU:HD13	2.28	0.53
28:BI:99:ILE:C	28:BI:99:ILE:HD12	2.27	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:77:ILE:HG21	37:BR:126:TRP:CZ3	2.44	0.53
26:BG:113:ALA:O	26:BG:151:LEU:HB3	2.07	0.53
26:BG:160:GLU:OE1	26:BG:160:GLU:HA	2.07	0.53
26:BG:115:VAL:HG21	26:BG:214:VAL:N	2.23	0.53
31:BL:134:VAL:HG23	31:BL:135:ASP:N	2.23	0.53
18:B3:1784:U:C2	35:BP:77:TYR:HE2	2.23	0.53
18:B3:2737:C:C6	35:BP:60:SER:HB3	2.42	0.53
18:B3:1708:C:C5'	35:BP:87:ARG:CG	2.86	0.53
7:AG:116:THR:HG21	7:AG:193:LEU:CB	2.37	0.53
7:AG:122:VAL:HG23	7:AG:123:LEU:H	1.72	0.53
29:BJ:159:VAL:HG22	29:BJ:159:VAL:O	2.07	0.53
18:B3:1504:A:H61	39:BT:73:LYS:NZ	2.06	0.53
39:BT:63:GLU:HA	39:BT:63:GLU:OE1	2.09	0.53
37:BR:31:ALA:C	37:BR:32:ARG:HD3	2.28	0.53
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.57	0.53
9:AI:122:ARG:HB3	9:AI:123:PRO:CD	2.33	0.53
9:AI:12:LYS:HD3	9:AI:78:TYR:CB	2.38	0.53
27:BH:104:VAL:HG13	27:BH:111:PHE:CD1	2.39	0.53
1:AA:779:C:C4'	11:AK:132:ARG:O	2.54	0.53
18:B3:1396:C:C1'	35:BP:2:ASN:HB3	2.37	0.53
1:AA:877:C:O2'	8:AH:3:SER:CB	2.56	0.53
41:BV:124:VAL:HG12	41:BV:125:LYS:N	2.23	0.53
41:BV:142:GLY:O	41:BV:143:VAL:HB	2.07	0.53
41:BV:69:LYS:HE3	41:BV:69:LYS:N	2.24	0.53
1:AA:1397:C:H4'	1:AA:1398:A:OP2	2.07	0.53
18:B3:145:A:H5'	31:BL:137:GLN:CD	2.29	0.53
15:AO:73:ILE:CD1	15:AO:88:TYR:HB3	2.37	0.53
1:AA:56:U:O2'	2:AT:67:GLY:N	2.34	0.53
22:BC:211:ASN:HD22	22:BC:350:LEU:C	2.11	0.53
18:B3:367:G:H4'	18:B3:368:C:OP1	2.07	0.53
18:B3:2151:G:H4'	18:B3:2152:C:OP2	2.07	0.53
20:BA:24:LYS:NZ	20:BA:25:LYS:HE2	2.24	0.53
1:AA:888:G:H4'	1:AA:1489:G:C5'	2.37	0.53
4:AC:67:GLU:O	4:AC:71:LEU:HD13	2.08	0.53
22:BC:36:ARG:HH11	22:BC:36:ARG:HB2	1.73	0.53
1:AA:532:A:H2'	1:AA:533:A:H5''	1.90	0.53
1:AA:960:U:O2	1:AA:960:U:H5'	2.08	0.53
18:B3:1415:G:H5''	45:BY:13:LYS:CE	2.11	0.53
45:BY:10:ARG:HD3	45:BY:10:ARG:O	2.08	0.53
9:AI:51:LEU:O	9:AI:58:LYS:HG2	2.08	0.53
9:AI:54:VAL:HG23	9:AI:55:GLY:N	2.22	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:50:LEU:HG	10:AJ:51:VAL:N	2.22	0.53
24:BE:75:LEU:HD23	24:BE:76:ALA:H	1.73	0.53
1:AA:318:G:N1	1:AA:1434:A:H2	1.90	0.53
18:B3:1428:C:C4'	33:BN:124:GLN:NE2	2.70	0.53
33:BN:39:GLU:HG3	33:BN:42:LYS:N	2.24	0.53
42:B0:87:MET:CG	42:B0:118:LYS:H	2.16	0.53
23:BD:214:ILE:CD1	23:BD:214:ILE:H	2.15	0.53
18:B3:672:G:C5'	23:BD:214:ILE:HG23	2.19	0.53
18:B3:35:U:H5'	23:BD:49:TYR:C	2.28	0.53
18:B3:889:C:H2'	18:B3:890:C:C6	2.43	0.53
18:B3:1360:C:H1'	23:BD:88:ALA:N	2.23	0.53
21:BB:139:ASN:HB2	21:BB:140:PRO:CD	2.38	0.53
18:B3:783:C:HO2'	21:BB:20:ARG:NH1	2.05	0.53
21:BB:224:ILE:CD1	21:BB:225:SER:H	2.20	0.53
1:AA:131:C:C3'	16:AQ:128:ARG:NH1	2.70	0.53
18:B3:1133:A:C1'	18:B3:2520:G:N3	2.64	0.53
22:BC:212:GLU:HA	22:BC:212:GLU:OE1	2.07	0.53
22:BC:324:LYS:CA	22:BC:324:LYS:HE3	2.38	0.53
22:BC:41:ALA:C	22:BC:180:ILE:HD13	2.28	0.53
22:BC:42:LEU:HD23	22:BC:45:PHE:CE2	2.43	0.53
37:BR:10:LYS:O	37:BR:10:LYS:HG2	2.09	0.53
38:BS:19:THR:HG22	38:BS:20:LEU:H	1.72	0.53
31:BL:67:ARG:CZ	31:BL:67:ARG:H	2.21	0.53
18:B3:2734:G:OP1	35:BP:79:LYS:HD3	2.07	0.53
18:B3:166:A:H62	41:BV:28:PRO:CB	2.21	0.53
29:BJ:48:LYS:NZ	29:BJ:48:LYS:HB3	2.23	0.53
20:BA:56:PRO:CA	20:BA:155:ILE:CG2	2.80	0.53
4:AC:68:LEU:O	4:AC:72:VAL:HG23	2.08	0.53
1:AA:860:A:H4'	3:AB:133:LYS:NZ	2.23	0.53
1:AA:860:A:H5'	3:AB:133:LYS:NZ	2.24	0.53
12:AL:117:ILE:O	12:AL:120:VAL:HG22	2.09	0.53
1:AA:64:G:O4'	1:AA:98:U:O4	2.05	0.53
37:BR:64:LYS:HA	37:BR:64:LYS:HZ2	1.73	0.53
18:B3:2559:C:C4'	18:B3:2799:A:C4'	2.87	0.53
18:B3:2795:C:O2'	18:B3:2796:U:H5'	2.08	0.53
27:BH:54:LYS:HD3	27:BH:72:LYS:HD2	1.89	0.53
27:BH:62:ARG:HB3	32:BM:129:LYS:HE2	0.64	0.53
32:BM:54:HIS:CD2	32:BM:78:ILE:HG13	2.43	0.53
1:AA:712:A:N1	11:AK:124:SER:O	2.41	0.53
35:BP:42:LYS:H	35:BP:44:VAL:H	1.54	0.53
18:B3:1381:A:C8	43:BW:25:LYS:HA	2.42	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:49:ARG:CZ	43:BW:49:ARG:HA	2.38	0.53
43:BW:49:ARG:O	43:BW:50:LEU:HG	2.08	0.53
46:BZ:22:HIS:HB3	46:BZ:72:GLU:O	2.08	0.53
18:B3:99:A:N1	40:BU:24:SER:O	2.40	0.53
43:BW:77:LYS:HZ2	43:BW:82:GLU:HB3	1.72	0.53
18:B3:1097:A:OP1	25:BF:213:TRP:CD2	2.61	0.53
18:B3:597:A:O2'	18:B3:598:C:H5'	2.09	0.53
5:AD:79:ARG:HH21	5:AD:80:LEU:CD2	2.21	0.53
13:AM:50:ALA:HA	13:AM:68:ARG:HD2	1.90	0.53
11:AK:32:LEU:HD23	11:AK:33:SER:N	2.23	0.53
1:AA:370:C:O2'	1:AA:371:G:H5'	2.09	0.53
1:AA:1038:C:H2'	1:AA:1039:C:H6	1.74	0.53
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.08	0.53
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.72	0.53
18:B3:413:G:H2'	18:B3:414:C:C6	2.44	0.53
1:AA:1121:U:H2'	1:AA:1122:U:H6	1.73	0.53
30:BK:28:LEU:N	30:BK:28:LEU:HD22	2.23	0.53
17:AS:83:MET:HG2	17:AS:84:ILE:N	2.23	0.53
42:B0:54:LYS:H	42:B0:54:LYS:HD3	1.73	0.53
18:B3:620:A:O3'	42:B0:40:SER:OG	2.24	0.53
18:B3:951:A:H4'	36:BQ:43:LYS:HG2	1.89	0.53
24:BE:111:GLN:OE1	24:BE:111:GLN:HA	2.08	0.53
24:BE:144:VAL:HG12	24:BE:145:PHE:N	2.22	0.53
24:BE:39:GLN:HG2	24:BE:145:PHE:CZ	2.43	0.53
18:B3:2413:A:N1	24:BE:145:PHE:HD2	2.06	0.53
24:BE:146:LEU:O	24:BE:146:LEU:HD23	2.09	0.53
24:BE:49:TYR:HD1	24:BE:66:SER:N	2.06	0.53
24:BE:43:LYS:HE3	24:BE:65:ILE:HD13	1.90	0.53
36:BQ:84:TYR:HB2	36:BQ:86:GLU:HG3	1.89	0.53
36:BQ:43:LYS:H	36:BQ:95:HIS:CG	2.27	0.53
33:BN:88:LYS:HE2	33:BN:88:LYS:C	2.29	0.53
18:B3:28:G:P	18:B3:1319:G:H5'	2.48	0.53
23:BD:133:LEU:HD11	23:BD:137:ARG:NE	2.21	0.53
23:BD:215:VAL:O	23:BD:215:VAL:HG13	2.08	0.53
18:B3:450:C:C1'	23:BD:47:GLN:OE1	2.57	0.53
45:BY:27:HIS:CB	45:BY:30:LYS:HG3	2.35	0.53
30:BK:91:ASP:OD1	30:BK:101:SER:HB2	2.08	0.53
18:B3:1874:U:O4	21:BB:124:ALA:CB	2.54	0.53
18:B3:817:G:O2'	18:B3:818:A:C8	2.62	0.53
47:B9:48:ARG:NH2	47:B9:70:VAL:HB	2.23	0.53
18:B3:1852:A:O4'	21:BB:236:LEU:HG	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:81:VAL:H	47:B9:64:ALA:HB3	1.74	0.53
25:BF:99:ARG:CA	25:BF:102:LEU:HD13	2.38	0.53
25:BF:146:LEU:HD21	25:BF:239:VAL:O	2.08	0.53
25:BF:152:PHE:CE2	25:BF:194:PHE:CD1	2.96	0.53
25:BF:187:ILE:HD13	25:BF:192:PRO:O	2.09	0.53
25:BF:188:ILE:HG23	25:BF:189:THR:N	2.23	0.53
18:B3:92:G:O3'	44:BX:43:LYS:HG3	2.09	0.53
44:BX:25:LYS:HA	44:BX:25:LYS:CE	2.39	0.53
22:BC:205:ASP:HA	22:BC:208:PHE:CD1	2.43	0.53
18:B3:2075:G:H4'	22:BC:255:HIS:NE2	2.23	0.53
22:BC:81:PRO:CG	22:BC:204:VAL:HG13	2.39	0.53
22:BC:42:LEU:HD21	22:BC:85:VAL:HG13	1.90	0.53
28:BI:80:SER:HB3	28:BI:83:ASP:CG	2.28	0.53
31:BL:122:GLN:HB3	31:BL:126:TYR:O	2.09	0.53
31:BL:112:LEU:HD23	31:BL:133:LEU:HB3	1.90	0.53
31:BL:139:LYS:HD2	31:BL:139:LYS:C	2.28	0.53
18:B3:1789:G:H5''	18:B3:2880:A:C8	2.43	0.53
18:B3:1789:G:C4'	18:B3:2880:A:N7	2.70	0.53
29:BJ:70:VAL:C	29:BJ:71:ARG:HD3	2.28	0.53
39:BT:80:ILE:CG1	39:BT:81:LEU:H	2.19	0.53
3:AB:173:TRP:HA	3:AB:176:LEU:CD2	2.39	0.53
1:AA:403:C:O3'	5:AD:123:HIS:CD2	2.59	0.53
8:AH:45:TYR:CD2	8:AH:100:TYR:HE2	2.26	0.53
1:AA:35:G:C5'	12:AL:130:VAL:CG2	2.86	0.53
1:AA:69:G:O4'	1:AA:174:C:N1	2.41	0.53
1:AA:69:G:OP2	1:AA:172:A:C3'	2.56	0.53
1:AA:1374:A:C8	7:AG:101:ARG:NH2	2.47	0.53
27:BH:11:GLU:CA	27:BH:52:LEU:HB3	2.09	0.53
40:BU:56:VAL:HG13	40:BU:104:LEU:HB2	1.89	0.53
40:BU:36:SER:HG	40:BU:38:GLU:HG3	1.73	0.53
40:BU:60:ARG:HG3	40:BU:61:GLY:H	1.73	0.53
1:AA:1344:C:OP2	9:AI:136:ARG:CZ	2.56	0.53
41:BV:68:TRP:NE1	41:BV:107:GLY:HA3	2.23	0.53
41:BV:72:LEU:CG	41:BV:77:LEU:HD11	2.38	0.53
41:BV:86:ARG:H	41:BV:86:ARG:NE	2.07	0.53
1:AA:924:C:C2	1:AA:1398:A:C2	2.97	0.53
20:BA:117:ILE:HA	20:BA:120:VAL:CG1	2.38	0.53
32:BM:26:LEU:HD21	32:BM:97:ALA:CA	2.38	0.53
32:BM:26:LEU:HD22	32:BM:97:ALA:CB	2.38	0.53
24:BE:222:LEU:HD13	24:BE:222:LEU:C	2.29	0.53
20:BA:45:ARG:C	20:BA:47:LYS:H	2.12	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:411:A:N9	1:AA:413:G:H1'	2.23	0.53
18:B3:1477:C:H5'	18:B3:1868:G:H5''	1.90	0.53
18:B3:1123:A:C2	18:B3:1129:C:H4'	2.43	0.53
16:AQ:121:ILE:N	16:AQ:121:ILE:HD12	2.23	0.53
1:AA:1300:G:H5'	13:AM:30:TYR:CD2	2.43	0.53
1:AA:979:C:H2'	1:AA:980:C:H5'	1.89	0.53
13:AM:26:ILE:CG2	13:AM:31:ALA:HB2	2.39	0.53
1:AA:1328:C:H2'	13:AM:96:LYS:CB	2.35	0.53
1:AA:1318:A:N9	17:AS:54:ALA:CB	2.64	0.53
17:AS:71:GLU:HG3	17:AS:72:LYS:N	2.20	0.53
45:BY:4:THR:HB	45:BY:5:PRO:O	2.09	0.53
42:B0:15:LYS:HD2	42:B0:16:LYS:HD2	1.91	0.53
18:B3:2413:A:O2'	24:BE:174:PRO:HA	2.09	0.53
24:BE:212:ALA:O	24:BE:213:ASP:HB2	2.08	0.53
18:B3:2424:U:H5''	36:BQ:7:TYR:CE2	2.41	0.53
23:BD:156:GLU:HB2	23:BD:210:GLU:OE2	2.08	0.53
23:BD:31:PRO:C	23:BD:34:VAL:HG22	2.29	0.53
23:BD:54:LYS:CG	23:BD:57:HIS:HB2	2.34	0.53
18:B3:473:A:OP1	45:BY:48:TRP:HZ2	1.88	0.53
21:BB:232:GLN:O	21:BB:233:LYS:HG3	2.08	0.53
21:BB:61:VAL:CG2	21:BB:62:PHE:HD1	2.20	0.53
25:BF:101:VAL:CG2	25:BF:125:LEU:HB3	2.39	0.53
19:B4:86:G:P	25:BF:218:LYS:CD	2.97	0.53
1:AA:190(C):C:H42	16:AQ:111:SER:CB	2.22	0.53
18:B3:107:U:O4'	44:BX:56:THR:C	2.47	0.53
18:B3:90:A:O2'	44:BX:39:PRO:CB	2.55	0.53
18:B3:2718:C:H5'	18:B3:2718:C:H6	1.73	0.53
22:BC:210:GLN:NE2	22:BC:283:ARG:HH21	2.05	0.53
28:BI:104:SER:HB3	28:BI:118:ALA:O	2.09	0.53
28:BI:156:ARG:O	28:BI:157:TYR:HB3	2.07	0.53
18:B3:183:A:C1'	31:BL:158:ARG:HH11	2.21	0.53
18:B3:1815:A:OP1	18:B3:2751:C:O4'	2.26	0.53
35:BP:97:ARG:HA	35:BP:100:VAL:HG22	1.89	0.53
18:B3:898:G:N1	41:BV:42:ILE:HG12	2.23	0.53
29:BJ:75:ALA:HA	29:BJ:78:ILE:CD1	2.37	0.53
18:B3:1675:C:P	39:BT:113:VAL:O	2.67	0.53
5:AD:86:LEU:CB	5:AD:96:VAL:HG13	2.33	0.53
5:AD:99:LEU:HD22	5:AD:103:ASP:N	2.23	0.53
37:BR:26:ALA:HA	37:BR:115:THR:HG22	1.90	0.53
18:B3:1245:C:H6	18:B3:1245:C:O5'	1.91	0.53
32:BM:34:VAL:HG12	32:BM:103:VAL:HG12	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:143:A:OP2	1:AA:201:C:C2	2.60	0.53
18:B3:1232:A:H5'	18:B3:2553:A:N1	2.24	0.53
1:AA:1496:C:N3	1:AA:1518:A:N3	2.56	0.53
40:BU:56:VAL:HG13	40:BU:105:VAL:O	2.07	0.53
40:BU:43:TYR:OH	40:BU:48:LEU:HD21	2.09	0.53
18:B3:81:G:C2'	40:BU:75:ARG:CD	2.86	0.53
6:AE:102:VAL:CG2	6:AE:189:LEU:HD22	2.32	0.53
18:B3:903:U:C5	41:BV:15:SER:CA	2.87	0.53
5:AD:27:GLU:HB3	5:AD:34:PHE:HB2	1.90	0.53
1:AA:239:U:C2'	1:AA:288:A:C4	2.91	0.53
40:BU:14:LYS:NZ	40:BU:14:LYS:HB3	2.23	0.53
18:B3:112:G:C2'	18:B3:114:A:C8	2.44	0.53
18:B3:2434:A:P	46:BZ:35:PHE:CE2	3.02	0.53
18:B3:2692:G:C8	18:B3:2693:U:H5	2.26	0.53
18:B3:918:G:N2	41:BV:45:ASP:CG	2.61	0.53
21:BB:31:LEU:H	21:BB:31:LEU:CD1	2.21	0.53
24:BE:189:GLU:OE2	24:BE:223:PHE:HZ	1.91	0.53
18:B3:282:C:H2'	18:B3:283:U:O4'	2.09	0.53
1:AA:1286:A:H8	1:AA:1287:A:C5'	2.20	0.53
1:AA:1426:C:H2'	1:AA:1427:U:C6	2.43	0.53
18:B3:1218:U:H2'	18:B3:1219:U:C6	2.44	0.53
6:AE:82:ILE:O	6:AE:82:ILE:HG13	2.09	0.53
1:AA:1309:G:C4	13:AM:92:ILE:C	2.82	0.53
1:AA:989:C:P	1:AA:1015:A:H62	2.31	0.53
13:AM:31:ALA:O	13:AM:34:THR:HG22	2.09	0.53
42:B0:19:ARG:HH11	42:B0:20:HIS:H	1.54	0.53
1:AA:1178:G:O6	9:AI:111:TYR:CE1	2.62	0.53
9:AI:111:TYR:HB3	9:AI:114:THR:CB	2.39	0.53
18:B3:2295:G:O3'	36:BQ:5:HIS:O	2.26	0.53
24:BE:20:PHE:CD2	24:BE:24:ARG:HB2	2.43	0.53
19:B4:6:C:OP2	24:BE:28:THR:N	2.41	0.53
1:AA:336:C:C5	1:AA:1434:A:O4'	2.61	0.53
18:B3:2050:G:C5'	33:BN:82:TRP:CE3	2.90	0.53
33:BN:111:LEU:HD23	33:BN:150:THR:CB	2.38	0.53
18:B3:719:C:O2'	34:BO:73:GLN:C	2.42	0.53
23:BD:125:ILE:CD1	23:BD:255:THR:HG21	2.38	0.53
23:BD:140:ARG:NH2	23:BD:178:LEU:HB3	2.20	0.53
23:BD:207:VAL:HG23	23:BD:236:GLN:CG	2.39	0.53
34:BO:133:LYS:HD2	34:BO:134:GLY:N	2.24	0.53
34:BO:35:PHE:O	34:BO:36:LEU:HD23	2.08	0.53
18:B3:471:G:H4'	45:BY:15:HIS:ND1	2.17	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:216:PRO:O	25:BF:217:ARG:HB3	2.08	0.53
12:AL:142:LYS:CD	12:AL:143:PRO:HD3	2.38	0.53
18:B3:2709:G:H4'	37:BR:125:LEU:CD2	2.26	0.53
18:B3:2547:C:C4'	22:BC:248:VAL:HG13	2.37	0.53
22:BC:263:VAL:O	22:BC:263:VAL:HG23	2.08	0.53
22:BC:221:LYS:CG	22:BC:331:ARG:HG3	2.39	0.53
18:B3:2837:U:H4'	22:BC:332:LYS:HE3	1.89	0.53
22:BC:41:ALA:HA	22:BC:182:LEU:CB	2.26	0.53
28:BI:49:CYS:HA	28:BI:139:ARG:CG	2.35	0.53
18:B3:1002:G:HO2'	28:BI:90:ARG:NH2	1.19	0.53
37:BR:114:ILE:HD11	37:BR:133:SER:O	2.09	0.53
26:BG:165:LEU:HD22	26:BG:165:LEU:N	2.23	0.53
35:BP:102:ARG:HG2	35:BP:123:TYR:OH	2.08	0.53
35:BP:80:ARG:HA	35:BP:81:LYS:NZ	2.23	0.53
18:B3:898:G:C5'	41:BV:25:ARG:HG2	2.39	0.53
29:BJ:57:GLY:HA3	29:BJ:59:ARG:HH12	1.72	0.53
29:BJ:44:PRO:HG2	29:BJ:68:VAL:CA	2.37	0.53
29:BJ:67:HIS:HD2	29:BJ:68:VAL:CG2	2.21	0.53
10:AJ:71:PRO:CA	14:AN:30:VAL:H	2.16	0.53
1:AA:300:A:H2'	1:AA:301:G:O4'	2.09	0.53
5:AD:110:GLN:HB2	5:AD:144:PRO:HB3	1.90	0.53
5:AD:159:ALA:HB3	5:AD:160:PRO:CD	2.39	0.53
6:AE:138:ILE:HB	6:AE:217:ILE:CD1	2.24	0.53
8:AH:40:MET:SD	8:AH:45:TYR:HB2	2.48	0.53
1:AA:363:A:C2'	12:AL:49:ALA:CA	2.47	0.53
18:B3:2579:G:O2'	18:B3:2680:A:C2	2.60	0.53
18:B3:2575:C:HO2'	18:B3:2775:A:H1'	1.70	0.53
27:BH:128:VAL:HG13	27:BH:132:VAL:CG1	2.38	0.53
27:BH:18:VAL:HG11	27:BH:53:ILE:CG2	2.38	0.53
18:B3:1383:U:C2'	43:BW:32:VAL:CG1	2.80	0.53
46:BZ:60:LYS:NZ	46:BZ:62:LYS:HB3	2.22	0.53
40:BU:27:ARG:HA	40:BU:78:PHE:CE2	2.38	0.53
40:BU:56:VAL:HG12	40:BU:57:LEU:H	1.73	0.53
1:AA:358:U:H4'	2:AT:390:ASP:C	2.29	0.53
41:BV:95:LYS:CA	41:BV:95:LYS:HE2	2.33	0.53
15:AO:74:LEU:C	15:AO:74:LEU:HD23	2.29	0.53
15:AO:77:ASN:HB3	15:AO:85:GLU:CG	2.36	0.53
32:BM:91:THR:HG22	32:BM:92:ALA:N	2.24	0.53
18:B3:2865:G:OP2	38:BS:42:GLN:OE1	2.27	0.53
30:BK:90:ARG:HB3	30:BK:139:VAL:HG23	1.91	0.53
2:AT:200:VAL:HG22	2:AT:200:VAL:O	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:193:C:H2'	1:AA:194:C:H6	1.73	0.53
17:AS:93:VAL:CG1	17:AS:104:GLN:HG3	2.38	0.53
18:B3:1933:G:O2'	18:B3:1934:A:H5'	2.08	0.53
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.44	0.53
18:B3:204:A:C2'	18:B3:205:U:H5'	2.39	0.53
5:AD:152:SER:OG	5:AD:154:LYS:HE3	2.08	0.53
2:AT:423:LYS:HG2	2:AT:423:LYS:O	2.09	0.53
1:AA:989:C:H1'	1:AA:1015:A:C8	2.30	0.53
9:AI:27:LEU:HD21	9:AI:63:ASP:OD2	2.09	0.53
9:AI:98:GLU:CA	9:AI:105:LYS:N	2.72	0.53
10:AJ:38:SER:O	10:AJ:42:VAL:HG23	2.09	0.53
24:BE:113:LEU:HD13	24:BE:113:LEU:N	2.23	0.53
24:BE:148:ILE:O	24:BE:148:ILE:HD13	2.09	0.53
24:BE:33:ARG:HH12	24:BE:34:LYS:HB2	1.72	0.53
36:BQ:20:ARG:HE	36:BQ:20:ARG:H	1.55	0.53
18:B3:1315:G:N2	42:B0:107:VAL:CG1	2.56	0.53
23:BD:131:ALA:O	23:BD:135:LEU:HD23	2.09	0.53
23:BD:22:PRO:HG2	23:BD:25:PHE:CE2	2.44	0.53
18:B3:170:U:O2'	46:BZ:50:GLY:HA2	2.08	0.53
18:B3:1875:A:C2	21:BB:151:SER:CB	2.92	0.53
25:BF:101:VAL:HG22	25:BF:101:VAL:O	2.08	0.53
25:BF:207:SER:HB2	25:BF:242:MET:SD	2.48	0.53
16:AQ:69:ILE:O	16:AQ:70:LEU:HD23	2.07	0.53
18:B3:488:U:OP1	40:BU:90:VAL:CG1	2.57	0.53
18:B3:91:G:C4'	44:BX:39:PRO:HB2	2.39	0.53
18:B3:67:A:O2'	39:BT:59:TYR:CE1	2.56	0.53
18:B3:91:G:C2'	44:BX:41:LEU:HB3	2.28	0.53
18:B3:2654:C:C6	22:BC:259:VAL:N	2.76	0.53
22:BC:302:LYS:HB3	22:BC:317:LYS:HA	1.91	0.53
22:BC:208:PHE:CB	22:BC:338:ARG:HH22	2.20	0.53
22:BC:356:LYS:O	22:BC:357:TRP:HD1	1.90	0.53
28:BI:147:VAL:HG13	28:BI:148:VAL:N	2.23	0.53
26:BG:127:LYS:HB2	26:BG:128:PRO:CD	2.36	0.53
26:BG:164:PHE:CD1	31:BL:5:TYR:CE1	2.77	0.53
31:BL:112:LEU:HB3	31:BL:135:ASP:HA	1.89	0.53
31:BL:163:LEU:HD22	31:BL:163:LEU:O	2.09	0.53
18:B3:2244:A:C3'	31:BL:27:TRP:CZ3	2.82	0.53
31:BL:54:ALA:O	31:BL:55:LYS:HG2	2.09	0.53
29:BJ:162:PHE:CD1	29:BJ:165:LYS:HD3	2.44	0.53
20:BA:36:VAL:CG2	20:BA:204:LEU:HD12	2.39	0.53
18:B3:2165:G:C6	20:BA:60:ARG:HD2	2.44	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:63:MET:HE3	20:BA:159:LEU:C	2.29	0.53
10:AJ:70:THR:CB	14:AN:41:CYS:H	2.21	0.53
2:AT:141:THR:HG22	2:AT:483:PHE:CD2	2.42	0.53
37:BR:34:LEU:HD22	37:BR:34:LEU:O	2.09	0.53
27:BH:129:ARG:NE	27:BH:129:ARG:HA	2.23	0.53
27:BH:54:LYS:NZ	27:BH:75:VAL:HG21	2.24	0.53
32:BM:49:ASN:HD21	32:BM:136:THR:CG2	2.22	0.53
18:B3:1381:A:P	43:BW:25:LYS:HZ2	2.31	0.53
43:BW:49:ARG:C	43:BW:50:LEU:HG	2.29	0.53
1:AA:21:G:H1'	1:AA:885:G:C5'	2.32	0.53
1:AA:545:C:C5'	5:AD:63:ASP:HA	2.39	0.53
41:BV:77:LEU:H	41:BV:77:LEU:CD1	2.22	0.53
11:AK:28:HIS:CD2	11:AK:36:GLU:HG2	2.44	0.53
1:AA:1115:C:H4'	10:AJ:64:LYS:NZ	2.23	0.53
15:AO:83:ILE:CB	15:AO:84:PRO:HD3	2.38	0.53
32:BM:5:VAL:H	32:BM:32:ILE:CG2	2.22	0.53
32:BM:7:VAL:HG22	32:BM:33:VAL:HG22	1.91	0.53
21:BB:143:ASN:O	21:BB:144:LYS:HB3	2.09	0.53
18:B3:1438:G:N2	18:B3:1685:A:C8	2.73	0.53
23:BD:51:VAL:HG12	23:BD:52:SER:N	2.24	0.53
1:AA:1424:C:O2'	1:AA:1425:U:H5'	2.09	0.53
7:AG:159:VAL:HG22	7:AG:160:ASP:H	1.73	0.53
15:AO:68:ASN:HB3	15:AO:71:MET:HB2	1.91	0.53
18:B3:1925:G:O2'	18:B3:1926:G:H5'	2.09	0.53
1:AA:148:G:H2'	1:AA:149:A:H8	1.73	0.53
22:BC:61:ARG:HG3	22:BC:61:ARG:O	2.08	0.53
1:AA:1319:A:OP1	17:AS:84:ILE:CG1	2.56	0.53
13:AM:89:GLN:HG3	13:AM:109:LEU:C	2.29	0.53
13:AM:131:LEU:HD22	13:AM:132:ARG:HH22	1.73	0.53
18:B3:2060:A:H4'	42:B0:25:TYR:CG	2.37	0.53
7:AG:107:LEU:HD21	7:AG:108:LYS:NZ	2.23	0.53
1:AA:1175:G:C6	9:AI:108:PHE:HB3	2.44	0.53
9:AI:81:ARG:CD	9:AI:115:LEU:HD21	2.39	0.53
9:AI:43:LEU:H	9:AI:43:LEU:HD22	1.73	0.53
24:BE:64:ILE:HG21	24:BE:109:THR:CB	2.38	0.53
24:BE:99:TYR:CZ	24:BE:161:GLY:HA3	2.44	0.53
18:B3:1428:C:H4'	33:BN:124:GLN:NE2	2.22	0.53
33:BN:59:PHE:HD1	33:BN:63:ASN:CG	2.11	0.53
18:B3:1333:U:H2'	18:B3:1334:C:H6	1.74	0.53
18:B3:449:A:C5	18:B3:1349:G:H2'	2.43	0.53
23:BD:180:VAL:HG11	23:BD:222:PRO:O	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:87:VAL:HG22	34:BO:110:ALA:HB1	1.91	0.53
23:BD:62:GLU:HA	23:BD:74:PRO:HB2	1.91	0.53
23:BD:83:ARG:HA	23:BD:96:GLY:O	2.09	0.53
47:B9:55:THR:HG21	47:B9:63:VAL:HG23	1.87	0.53
21:BB:127:ARG:O	21:BB:168:ILE:HG13	2.08	0.53
21:BB:195:TRP:NE1	21:BB:196:PRO:HA	2.24	0.53
21:BB:98:GLY:H	21:BB:165:ILE:HG22	1.74	0.53
18:B3:1086:A:N6	25:BF:92:ASN:CG	2.58	0.53
25:BF:143:ILE:O	25:BF:143:ILE:HG22	2.08	0.53
1:AA:130:A:H5'	1:AA:190(E):U:C5	2.44	0.53
1:AA:130:A:O5'	16:AQ:127:CYS:CB	2.39	0.53
18:B3:67:A:P	44:BX:55:LEU:HD23	2.49	0.53
28:BI:110:ARG:O	28:BI:110:ARG:HD3	2.09	0.53
28:BI:165:ILE:HD13	28:BI:165:ILE:C	2.29	0.53
28:BI:99:ILE:CG1	28:BI:121:LYS:HE3	2.39	0.53
18:B3:263:U:O4	26:BG:157:ASP:CG	2.47	0.53
18:B3:1591:A:H4'	18:B3:1592:G:O5'	2.09	0.53
18:B3:1786:C:C4	18:B3:2883:A:C4'	2.73	0.53
7:AG:186:ILE:HG21	7:AG:190:ALA:CB	2.38	0.53
18:B3:2336:G:O3'	29:BJ:101:PHE:HB3	2.08	0.53
20:BA:162:VAL:HG12	20:BA:164:CYS:H	1.73	0.53
39:BT:80:ILE:HG21	39:BT:125:LEU:HG	1.89	0.53
39:BT:66:ILE:HG22	39:BT:82:VAL:C	2.29	0.53
3:AB:138:VAL:HG13	3:AB:140:ILE:CG1	2.37	0.53
12:AL:121:ARG:HB2	12:AL:122:PHE:CE1	2.44	0.53
18:B3:1117:A:N1	18:B3:1244:U:H2'	2.23	0.53
18:B3:2797:C:P	27:BH:127:PRO:HG3	2.24	0.53
27:BH:129:ARG:HG3	27:BH:153:ASP:HA	1.89	0.53
18:B3:2795:C:C2'	27:BH:156:GLN:HG2	2.35	0.53
1:AA:1404:C:HO2'	1:AA:1520:G:P	2.23	0.53
1:AA:22:G:N2	1:AA:913:A:N1	2.56	0.53
6:AE:204:ARG:HD2	6:AE:207:GLU:CB	2.16	0.53
18:B3:903:U:O5'	41:BV:14:VAL:HG23	2.09	0.53
18:B3:754:G:OP1	41:BV:7:THR:CG2	2.57	0.53
1:AA:1483:A:C2'	18:B3:2001:G:C4	2.92	0.53
32:BM:26:LEU:HD13	32:BM:97:ALA:CB	2.38	0.53
18:B3:2509:A:OP2	18:B3:2510:C:H5	1.92	0.53
37:BR:127:PRO:O	37:BR:128:ARG:HB2	2.08	0.53
16:AQ:76:SER:O	16:AQ:83:ILE:HD12	2.09	0.53
2:AT:400:VAL:HG12	2:AT:450:ALA:HA	1.91	0.53
2:AT:644:ASN:HD22	2:AT:684:VAL:H	1.56	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:582:U:C2	1:AA:760:G:O6	2.62	0.53
1:AA:1307:U:OP2	13:AM:134:ARG:NH1	2.42	0.53
13:AM:115:ARG:O	13:AM:119:ILE:HG12	2.09	0.53
13:AM:17:LEU:N	13:AM:17:LEU:HD12	2.24	0.53
18:B3:620:A:HO2'	42:B0:20:HIS:HE2	1.26	0.53
9:AI:51:LEU:O	9:AI:54:VAL:HG22	2.08	0.53
24:BE:204:VAL:O	24:BE:207:TYR:HD2	1.92	0.53
19:B4:119:C:H5'	24:BE:68:THR:CB	2.39	0.53
33:BN:25:PHE:HD1	33:BN:143:SER:HB3	1.72	0.53
33:BN:17:ARG:CB	33:BN:146:GLU:HA	2.38	0.53
18:B3:1347:U:H1'	23:BD:240:GLY:O	2.09	0.53
34:BO:30:VAL:HG23	34:BO:31:LYS:N	2.23	0.53
18:B3:745:G:H21	41:BV:76:LYS:HZ1	1.48	0.53
18:B3:1359:U:O2	23:BD:69:ALA:O	2.27	0.53
18:B3:1166:G:N2	30:BK:108:GLU:N	1.79	0.53
18:B3:1184:A:H4'	30:BK:86:LYS:CB	2.23	0.53
18:B3:1861:C:O3'	21:BB:7:GLN:CA	2.57	0.53
47:B9:10:THR:O	47:B9:26:LYS:HG2	2.08	0.53
18:B3:695:C:H2'	18:B3:696:C:C6	2.43	0.53
25:BF:146:LEU:CD1	25:BF:239:VAL:HG22	2.39	0.53
18:B3:2468:A:C6	46:BZ:55:PRO:CG	2.79	0.53
44:BX:21:LEU:HD23	44:BX:21:LEU:H	1.74	0.53
22:BC:121:TRP:HD1	22:BC:122:TYR:H	1.55	0.53
22:BC:165:ILE:HG21	22:BC:171:ALA:CB	2.24	0.53
22:BC:174:LYS:HB3	22:BC:174:LYS:NZ	2.20	0.53
22:BC:87:GLY:HA2	22:BC:198:PHE:CZ	2.44	0.53
22:BC:316:ILE:HD13	22:BC:320:PHE:HE1	1.74	0.53
22:BC:48:TYR:HD2	22:BC:334:ILE:C	2.12	0.53
28:BI:51:HIS:CE1	28:BI:149:VAL:HG22	2.40	0.53
28:BI:154:ARG:HH11	28:BI:154:ARG:HB2	1.73	0.53
18:B3:2709:G:C4'	37:BR:125:LEU:HD21	2.26	0.53
37:BR:40:LYS:HD3	37:BR:57:MET:CB	2.38	0.53
37:BR:45:ARG:H	37:BR:48:ARG:HB3	1.72	0.53
37:BR:85:TRP:HE3	37:BR:86:ARG:CD	2.13	0.53
22:BC:358:ILE:H	38:BS:15:PRO:HG2	1.72	0.53
26:BG:212:LYS:CD	26:BG:213:LEU:HD23	2.39	0.53
31:BL:163:LEU:C	31:BL:163:LEU:HD22	2.28	0.53
31:BL:41:PRO:HG2	31:BL:47:ALA:CB	2.39	0.53
35:BP:68:SER:O	35:BP:71:GLU:HB3	2.09	0.53
18:B3:2890:A:C2	38:BS:49:ILE:C	2.73	0.53
18:B3:2346:C:O5'	29:BJ:47:SER:O	2.26	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2214:A:H5''	20:BA:83:ASP:HB2	1.90	0.53
39:BT:81:LEU:HD22	39:BT:81:LEU:C	2.29	0.53
5:AD:100:LYS:HB3	5:AD:191:ALA:C	2.28	0.53
5:AD:131:GLN:O	5:AD:132:ARG:HB2	2.07	0.53
5:AD:172:VAL:HG12	5:AD:173:ALA:N	2.23	0.53
5:AD:192:ASP:O	5:AD:195:ASP:HB2	2.09	0.53
8:AH:40:MET:CG	8:AH:46:ILE:HG23	2.38	0.53
1:AA:68:G:O3'	1:AA:73:C:OP2	2.27	0.53
37:BR:102:ILE:N	37:BR:102:ILE:HD13	2.24	0.53
18:B3:1120:U:H3	18:B3:1226:G:P	2.31	0.53
18:B3:2566:A:C5'	27:BH:174:LYS:HZ3	2.21	0.53
32:BM:37:ALA:CB	32:BM:79:PHE:CE1	2.91	0.53
35:BP:18:LYS:HA	35:BP:18:LYS:CE	2.38	0.53
43:BW:16:HIS:HB2	43:BW:30:ARG:HG2	1.90	0.53
46:BZ:65:LYS:HA	46:BZ:66:LYS:CE	2.39	0.53
1:AA:1496:C:H3'	1:AA:1517:G:O6	2.09	0.53
40:BU:30:LEU:HD22	40:BU:78:PHE:HB3	1.91	0.53
41:BV:70:PRO:HD2	41:BV:108:TYR:CD2	2.43	0.53
18:B3:2019:A:N3	47:B9:17:TYR:CE2	2.77	0.53
29:BJ:8:MET:CE	29:BJ:9:ARG:HE	2.22	0.53
11:AK:117:VAL:O	11:AK:117:VAL:HG13	2.08	0.53
24:BE:84:PRO:HB3	24:BE:87:GLY:C	2.29	0.53
17:AS:67:ALA:HB3	17:AS:68:PRO:CD	2.39	0.53
28:BI:33:ILE:N	28:BI:33:ILE:HD13	2.24	0.53
36:BQ:39:ILE:N	36:BQ:39:ILE:HD13	2.17	0.53
29:BJ:28:ARG:HG3	29:BJ:29:LEU:CD2	2.38	0.53
29:BJ:153:THR:HG22	29:BJ:154:THR:N	2.24	0.53
1:AA:1423:G:O2'	1:AA:1424:C:H5'	2.09	0.53
5:AD:44:ARG:HG3	5:AD:45:ILE:CG2	2.39	0.53
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.44	0.53
10:AJ:100:VAL:HG23	10:AJ:101:LYS:N	2.23	0.53
18:B3:1423:C:O2'	18:B3:1424:A:H5'	2.08	0.53
3:AB:68:ASN:HB3	3:AB:69:PRO:CD	2.39	0.53
2:AT:581:ASN:O	2:AT:582:LYS:HB2	2.08	0.53
1:AA:959:A:C2	1:AA:1222:G:O4'	2.62	0.53
1:AA:1305:G:C8	1:AA:1305:G:OP2	2.62	0.53
13:AM:117:LYS:HE2	13:AM:127:HIS:CB	2.38	0.53
13:AM:41:ARG:O	13:AM:45:LEU:HD23	2.09	0.53
17:AS:58:LYS:HZ2	17:AS:58:LYS:HB3	1.72	0.53
10:AJ:93:LEU:CD2	10:AJ:99:ILE:HG21	2.38	0.53
19:B4:50:G:H2'	24:BE:93:THR:N	2.05	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:6:C:O2	24:BE:48:LYS:NZ	2.37	0.53
23:BD:211:ASP:O	23:BD:228:ASN:HB2	2.08	0.53
23:BD:161:THR:HG23	23:BD:217:ALA:HA	1.91	0.53
23:BD:215:VAL:CG1	23:BD:218:LEU:HD23	2.38	0.53
18:B3:1359:U:OP1	23:BD:92:MET:HE1	1.99	0.53
18:B3:760:G:H22	23:BD:101:PRO:CB	1.92	0.53
18:B3:1164:U:H5'	30:BK:47:ALA:CA	2.39	0.53
18:B3:1181:A:C4	30:BK:106:LEU:HD12	2.43	0.53
18:B3:1856:C:O2'	18:B3:1857:A:OP2	2.19	0.53
25:BF:130:GLU:HB3	25:BF:131:PRO:CD	2.34	0.53
22:BC:158:ARG:HA	22:BC:182:LEU:CD1	2.35	0.53
22:BC:83:VAL:HG13	22:BC:162:HIS:C	2.29	0.53
22:BC:104:VAL:CG2	22:BC:198:PHE:CZ	2.92	0.53
22:BC:46:LEU:HB2	22:BC:338:ARG:N	2.24	0.53
22:BC:91:TYR:C	22:BC:99:ARG:HH21	2.12	0.53
28:BI:151:GLY:O	28:BI:152:LEU:HB2	2.08	0.53
37:BR:11:PHE:HB3	37:BR:86:ARG:CD	2.39	0.53
26:BG:150:VAL:O	26:BG:176:TYR:HB2	2.09	0.53
26:BG:157:ASP:H	26:BG:159:ILE:HG12	1.74	0.53
31:BL:13:LYS:HE3	31:BL:18:LEU:CG	2.36	0.53
31:BL:161:ARG:CG	31:BL:166:THR:HG21	2.36	0.53
18:B3:2736:U:H5	35:BP:61:ARG:NH1	1.97	0.53
18:B3:2866:U:O2'	18:B3:2867:G:P	2.67	0.53
35:BP:114:ILE:HG23	35:BP:119:TYR:HB3	1.90	0.53
38:BS:52:THR:HB	38:BS:55:PHE:H	1.73	0.53
18:B3:2336:G:O3'	29:BJ:101:PHE:CB	2.56	0.53
20:BA:58:CYS:HA	20:BA:153:SER:OG	2.08	0.53
18:B3:1671:U:C6	39:BT:108:LYS:NZ	2.77	0.53
1:AA:33:A:H2'	1:AA:34:C:C6	2.43	0.53
37:BR:23:MET:HG2	37:BR:34:LEU:HD22	1.91	0.53
27:BH:145:VAL:C	27:BH:146:LEU:HD22	2.28	0.53
27:BH:52:LEU:HG	27:BH:53:ILE:H	1.73	0.53
18:B3:1227:C:H5'	32:BM:132:ARG:NH1	2.24	0.53
18:B3:1719:G:OP2	35:BP:19:ARG:HG3	2.08	0.53
35:BP:3:LEU:HD13	35:BP:31:ILE:C	2.29	0.53
43:BW:28:ALA:HB1	43:BW:59:TRP:CG	2.44	0.53
43:BW:28:ALA:CB	43:BW:29:PRO:HD3	2.34	0.53
46:BZ:74:VAL:HG13	46:BZ:74:VAL:O	2.08	0.53
18:B3:2854:A:P	22:BC:170:LEU:CD1	2.97	0.53
18:B3:2853:U:H5'	22:BC:170:LEU:HD23	1.84	0.53
18:B3:81:G:O2'	40:BU:75:ARG:CD	2.56	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:499:A:C2	1:AA:546:G:C2'	2.60	0.53
41:BV:69:LYS:H	41:BV:69:LYS:HD3	1.73	0.53
41:BV:95:LYS:NZ	41:BV:96:GLU:H	2.07	0.53
18:B3:2081:A:C3'	32:BM:69:PRO:CB	2.85	0.53
1:AA:119:A:N3	1:AA:238:G:C4	2.77	0.53
4:AC:173:HIS:O	4:AC:174:VAL:HG23	2.08	0.53
4:AC:98:VAL:N	4:AC:170:ALA:HB2	2.24	0.53
20:BA:68:PHE:CD1	20:BA:85:MET:HE3	2.44	0.53
18:B3:1467:C:P	31:BL:33:ASN:HB2	2.47	0.53
6:AE:193:GLU:HA	6:AE:193:GLU:OE1	2.08	0.53
1:AA:1106:G:O2'	4:AC:157:ILE:CD1	2.44	0.53
20:BA:29:LEU:CD2	20:BA:172:VAL:HG11	2.29	0.53
1:AA:623:C:O2'	1:AA:624:C:H5'	2.09	0.53
18:B3:484:A:N1	18:B3:506:G:H4'	2.24	0.53
2:AT:734:GLN:HG3	2:AT:767:THR:HG22	1.90	0.53
16:AQ:141:VAL:O	16:AQ:141:VAL:HG13	2.08	0.53
24:BE:106:ALA:O	24:BE:107:ARG:HB2	2.08	0.52
24:BE:185:PHE:HB3	24:BE:203:HIS:CE1	2.44	0.52
33:BN:101:ALA:CA	33:BN:106:LEU:HD21	2.39	0.52
45:BY:15:HIS:HA	45:BY:26:PHE:O	2.09	0.52
18:B3:820:G:H5'	18:B3:821:U:H5'	1.90	0.52
21:BB:147:VAL:HG23	21:BB:148:ARG:N	2.23	0.52
21:BB:157:ILE:HD12	21:BB:161:ALA:CB	2.38	0.52
21:BB:45:LYS:H	21:BB:71:ARG:NH2	2.06	0.52
18:B3:1098:A:H5''	25:BF:217:ARG:CB	2.39	0.52
25:BF:122:THR:HG22	25:BF:123:LEU:H	1.74	0.52
18:B3:1285:U:C3'	25:BF:155:ILE:CG1	2.86	0.52
39:BT:60:LYS:H	39:BT:60:LYS:HD3	1.73	0.52
18:B3:67:A:H1'	39:BT:60:LYS:HZ1	1.70	0.52
18:B3:2613:G:H22	22:BC:238:PRO:HD2	1.71	0.52
18:B3:2667:G:O2'	18:B3:2668:G:H5'	2.10	0.52
18:B3:2820:A:P	22:BC:101:LEU:H	2.15	0.52
22:BC:20:ARG:HH11	22:BC:20:ARG:CG	2.22	0.52
22:BC:255:HIS:CB	22:BC:256:PRO:HD3	2.38	0.52
28:BI:101:LYS:HB2	28:BI:121:LYS:HG3	1.91	0.52
28:BI:131:ILE:N	28:BI:131:ILE:HD12	2.24	0.52
18:B3:2519:C:H6	28:BI:158:LYS:HE2	0.81	0.52
38:BS:27:LYS:O	38:BS:28:ILE:HB	2.09	0.52
26:BG:149:LEU:HD11	26:BG:210:LEU:HD11	1.90	0.52
31:BL:139:LYS:O	31:BL:139:LYS:HD2	2.09	0.52
31:BL:186:ARG:CG	31:BL:187:ARG:HH12	2.22	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:25:ARG:CD	31:BL:26:VAL:HB	2.32	0.52
31:BL:70:ARG:N	31:BL:70:ARG:HD3	2.24	0.52
31:BL:91:LEU:C	31:BL:91:LEU:HD12	2.30	0.52
35:BP:62:THR:C	35:BP:63:ARG:HD3	2.29	0.52
18:B3:2337:G:N3	29:BJ:127:TYR:HB2	2.20	0.52
29:BJ:130:MET:HE3	29:BJ:162:PHE:HD2	1.73	0.52
29:BJ:14:GLU:CG	29:BJ:129:VAL:HG13	2.39	0.52
20:BA:49:PHE:HD1	20:BA:157:PHE:CD1	2.28	0.52
1:AA:1059:C:O2'	1:AA:1060:C:H5'	2.10	0.52
1:AA:402:G:C3'	5:AD:144:PRO:HB2	2.39	0.52
1:AA:615:C:P	5:AD:149:ARG:HG2	2.13	0.52
5:AD:99:LEU:CD1	5:AD:101:VAL:CA	2.84	0.52
8:AH:64:LEU:N	8:AH:64:LEU:HD12	2.25	0.52
1:AA:363:A:H61	12:AL:44:GLY:CA	2.20	0.52
1:AA:552:U:OP1	12:AL:107:PHE:C	2.48	0.52
37:BR:25:CYS:HA	37:BR:100:GLY:O	2.08	0.52
18:B3:2704:C:C2	27:BH:121:LYS:CD	2.80	0.52
18:B3:1382:G:C2'	43:BW:29:PRO:HG2	2.39	0.52
43:BW:71:ARG:HH11	43:BW:72:LEU:HA	1.73	0.52
18:B3:2381:C:H4'	46:BZ:8:LYS:HZ1	1.72	0.52
6:AE:164:VAL:HG11	6:AE:209:THR:CA	2.34	0.52
1:AA:294:U:P	1:AA:610:G:N3	2.82	0.52
1:AA:519:C:OP2	12:AL:66:SER:C	2.46	0.52
3:AB:36:VAL:HG21	3:AB:148:LEU:HD13	1.90	0.52
4:AC:119:TYR:CE1	4:AC:151:PHE:CE1	2.96	0.52
7:AG:212:LYS:O	7:AG:216:LEU:HD13	2.09	0.52
4:AC:94:GLY:CA	4:AC:124:TYR:HE2	2.19	0.52
2:AT:103:ILE:HD13	2:AT:121:VAL:HG23	1.91	0.52
20:BA:216:LEU:HD13	20:BA:216:LEU:C	2.29	0.52
2:AT:615:ARG:HG2	2:AT:619:MET:CE	2.38	0.52
2:AT:588:LEU:HD12	2:AT:588:LEU:C	2.29	0.52
2:AT:569:SER:O	2:AT:720:ALA:HB1	2.09	0.52
2:AT:167:LEU:N	2:AT:167:LEU:HD12	2.24	0.52
22:BC:29:LYS:HD3	22:BC:29:LYS:N	2.24	0.52
1:AA:1307:U:H5'	13:AM:144:ARG:CG	2.13	0.52
13:AM:120:ARG:HD2	13:AM:120:ARG:H	1.74	0.52
18:B3:1690:C:C6	33:BN:128:THR:HG22	2.44	0.52
24:BE:176:SER:OG	24:BE:179:ARG:HD3	2.09	0.52
18:B3:1335:C:H3'	42:B0:98:HIS:CA	2.32	0.52
18:B3:449:A:OP2	23:BD:45:LYS:HG3	2.08	0.52
23:BD:186:LEU:HD23	23:BD:186:LEU:N	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:243:LEU:HD22	23:BD:243:LEU:N	2.24	0.52
23:BD:149:LEU:O	23:BD:248:ILE:HG13	2.09	0.52
34:BO:87:VAL:H	34:BO:106:PHE:HB3	1.74	0.52
18:B3:1359:U:O5'	23:BD:91:ASN:CB	2.53	0.52
18:B3:1183:C:O3'	30:BK:103:ASN:N	2.34	0.52
47:B9:22:ARG:HG2	47:B9:23:ARG:N	2.24	0.52
21:BB:122:ARG:NE	21:BB:123:GLY:H	2.06	0.52
21:BB:155:LYS:HB3	21:BB:155:LYS:NZ	2.24	0.52
18:B3:1653:A:O4'	21:BB:186:HIS:HD2	1.93	0.52
18:B3:1098:A:H2'	18:B3:1099:G:O4'	2.10	0.52
25:BF:117:LYS:HD3	25:BF:118:VAL:N	2.25	0.52
25:BF:188:ILE:C	25:BF:188:ILE:HD13	2.29	0.52
18:B3:72:C:C5'	44:BX:49:LYS:HZ1	1.97	0.52
18:B3:1060:C:H2'	18:B3:1061:C:H6	1.75	0.52
22:BC:165:ILE:O	22:BC:165:ILE:HG22	2.08	0.52
22:BC:11:GLY:CA	22:BC:232:TRP:HB2	2.38	0.52
28:BI:116:ARG:HH11	28:BI:117:GLY:CA	2.23	0.52
28:BI:27:PRO:HG3	28:BI:124:GLY:H	1.74	0.52
28:BI:49:CYS:O	28:BI:139:ARG:HB3	2.08	0.52
28:BI:4:ARG:CG	28:BI:5:PRO:HA	2.40	0.52
18:B3:2134:G:H8	18:B3:2258:A:C2	2.23	0.52
26:BG:119:LYS:HE3	26:BG:184:ARG:HD3	1.90	0.52
26:BG:189:VAL:CG1	26:BG:191:GLN:HG2	2.33	0.52
31:BL:99:ALA:CB	31:BL:168:LYS:HD3	2.39	0.52
31:BL:43:ARG:HG2	31:BL:46:LYS:CE	2.39	0.52
18:B3:2333:G:H1'	29:BJ:113:ILE:O	2.08	0.52
18:B3:2337:G:OP1	29:BJ:103:PHE:CA	2.57	0.52
18:B3:2348:C:N4	29:BJ:127:TYR:CZ	2.77	0.52
18:B3:2215:A:H1'	20:BA:106:LYS:HA	1.90	0.52
20:BA:157:PHE:CZ	20:BA:165:LEU:HB3	2.44	0.52
20:BA:49:PHE:HE2	20:BA:193:LEU:HD11	1.72	0.52
20:BA:60:ARG:CD	20:BA:61:PRO:HD3	2.26	0.52
10:AJ:75:GLY:N	14:AN:40:GLN:CG	2.69	0.52
3:AB:22:HIS:NE2	3:AB:172:ILE:HD11	2.25	0.52
8:AH:118:LYS:HG3	8:AH:120:VAL:HG13	1.91	0.52
1:AA:99:C:H1'	1:AA:102:G:C6	2.44	0.52
2:AT:533:THR:N	2:AT:537:HIS:HD2	2.00	0.52
18:B3:1116:U:P	18:B3:1140:C:C2	3.02	0.52
27:BH:167:VAL:HG23	27:BH:170:LYS:HZ1	1.71	0.52
1:AA:714:G:O6	11:AK:122:SER:C	2.48	0.52
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:28:ALA:CA	43:BW:59:TRP:CE2	2.87	0.52
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.73	0.52
40:BU:35:LEU:HD13	40:BU:46:LYS:C	2.28	0.52
18:B3:1687:C:O4'	45:BY:8:GLY:O	2.27	0.52
41:BV:111:ILE:HG12	41:BV:111:ILE:O	2.08	0.52
18:B3:2251:G:C2'	21:BB:33:TYR:OH	2.54	0.52
24:BE:219:PHE:CD1	24:BE:222:LEU:CB	2.90	0.52
18:B3:1361:C:O2	23:BD:94:ARG:HD3	2.09	0.52
1:AA:106:C:H5'	1:AA:379:C:O3'	2.09	0.52
18:B3:1669:A:H2'	18:B3:1670:G:H8	1.72	0.52
25:BF:237:LYS:HG3	25:BF:238:LEU:N	2.25	0.52
1:AA:1300:G:C5'	13:AM:30:TYR:CZ	2.57	0.52
17:AS:122:THR:HG23	17:AS:123:TYR:N	2.24	0.52
1:AA:1014:A:P	17:AS:72:LYS:HZ3	2.05	0.52
17:AS:83:MET:SD	17:AS:89:MET:HE1	2.49	0.52
9:AI:33:SER:HB3	9:AI:37:LEU:CD2	2.36	0.52
1:AA:1125:U:H3	10:AJ:23:ARG:HE	0.64	0.52
10:AJ:58:LEU:HD22	10:AJ:58:LEU:N	2.25	0.52
24:BE:75:LEU:CG	24:BE:109:THR:HG23	2.38	0.52
24:BE:148:ILE:N	24:BE:148:ILE:HD13	2.24	0.52
24:BE:106:ALA:HB1	24:BE:169:GLY:HA3	1.92	0.52
18:B3:2051:G:O2'	18:B3:2052:U:H5'	2.08	0.52
18:B3:2052:U:H5''	33:BN:22:ARG:O	2.10	0.52
33:BN:39:GLU:HG3	33:BN:41:THR:N	2.23	0.52
33:BN:69:THR:HG22	33:BN:70:ALA:H	1.72	0.52
23:BD:186:LEU:H	23:BD:186:LEU:CD2	2.23	0.52
23:BD:192:LYS:C	23:BD:192:LYS:HD2	2.28	0.52
34:BO:93:ILE:CD1	34:BO:116:LYS:HZ3	2.19	0.52
18:B3:1900:A:OP1	21:BB:225:SER:HB3	2.09	0.52
21:BB:134:ILE:CD1	21:BB:148:ARG:HG3	2.39	0.52
21:BB:138:HIS:ND1	21:BB:141:ASP:HB3	2.24	0.52
18:B3:2468:A:H2	46:BZ:54:LYS:HB3	0.77	0.52
18:B3:952:G:C4'	36:BQ:14:MET:HG2	2.39	0.52
18:B3:1132:A:N6	18:B3:1229:C:H2'	2.25	0.52
18:B3:2065:C:H3'	22:BC:255:HIS:HB3	1.91	0.52
22:BC:120:ASN:HB3	22:BC:129:PHE:CE1	2.45	0.52
22:BC:18:ARG:NH1	22:BC:271:TYR:HE2	2.07	0.52
22:BC:55:ILE:HG12	22:BC:56:VAL:N	2.25	0.52
28:BI:116:ARG:HD2	28:BI:117:GLY:CA	2.39	0.52
28:BI:134:ILE:O	28:BI:134:ILE:HG12	2.10	0.52
28:BI:137:SER:C	28:BI:138:VAL:HG23	2.30	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:56:VAL:HG13	37:BR:89:ASP:HA	1.91	0.52
18:B3:134:U:H5'	31:BL:108:ARG:CD	2.38	0.52
18:B3:2134:G:C4	18:B3:2258:A:C6	2.98	0.52
26:BG:209:ALA:O	26:BG:212:LYS:HG3	2.09	0.52
31:BL:126:TYR:CD1	31:BL:126:TYR:N	2.76	0.52
18:B3:1806:G:H2'	18:B3:2884:G:C1'	2.36	0.52
35:BP:101:LEU:HD12	35:BP:137:LEU:CD1	2.27	0.52
18:B3:1566:C:O3'	35:BP:56:VAL:CG1	2.50	0.52
7:AG:116:THR:HA	7:AG:119:ILE:HD12	1.91	0.52
18:B3:2350:G:O6	29:BJ:115:TYR:HB3	2.08	0.52
20:BA:34:LEU:C	20:BA:34:LEU:HD13	2.29	0.52
10:AJ:75:GLY:O	14:AN:40:GLN:HG2	2.08	0.52
1:AA:6:G:C4	6:AE:196:TYR:CD2	2.98	0.52
5:AD:82:ARG:HD2	5:AD:104:PHE:HB3	1.91	0.52
8:AH:19:THR:OG1	8:AH:21:LYS:HG3	2.10	0.52
1:AA:554:C:O4'	12:AL:44:GLY:C	2.43	0.52
2:AT:109:VAL:CG1	2:AT:115:VAL:HG21	2.40	0.52
27:BH:43:VAL:HG11	32:BM:126:LEU:CA	2.25	0.52
32:BM:137:LEU:HD13	32:BM:138:GLY:N	2.24	0.52
1:AA:1085:U:O3'	1:AA:1086:U:C6	2.63	0.52
18:B3:1501:A:H5'	35:BP:37:ARG:CD	2.35	0.52
40:BU:56:VAL:HA	40:BU:105:VAL:O	2.09	0.52
1:AA:1344:C:OP2	9:AI:136:ARG:NH2	2.41	0.52
1:AA:865:A:OP1	1:AA:1078:U:C2'	2.55	0.52
1:AA:1117:G:O2'	9:AI:120:SER:HA	2.07	0.52
1:AA:1505:G:N3	1:AA:1506:U:C3'	2.66	0.52
18:B3:2663:U:N1	18:B3:2816:A:N1	2.55	0.52
40:BU:16:ARG:HH11	40:BU:17:LYS:HA	1.74	0.52
8:AH:81:LYS:HD3	8:AH:123:LYS:HD2	1.88	0.52
18:B3:475:G:OP1	23:BD:58:GLN:OE1	2.27	0.52
42:B0:111:ARG:NH2	42:B0:113:LYS:HD3	2.15	0.52
24:BE:119:TYR:HD1	24:BE:120:LYS:O	1.93	0.52
18:B3:1589:G:H22	18:B3:1605:G:H2'	1.73	0.52
29:BJ:97:ALA:O	29:BJ:98:THR:HB	2.09	0.52
30:BK:139:VAL:HG13	30:BK:141:CYS:H	1.74	0.52
1:AA:475:G:H2'	1:AA:476:G:C8	2.42	0.52
1:AA:166:G:O2'	1:AA:167:G:H5'	2.09	0.52
18:B3:666:A:H2'	18:B3:667:C:O4'	2.09	0.52
18:B3:2364:A:H5''	36:BQ:16:GLN:OE1	2.08	0.52
1:AA:1016:A:C4'	1:AA:1216:G:H21	2.22	0.52
1:AA:1316:G:C6	17:AS:49:MET:CB	2.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:14:THR:HG21	42:B0:57:TYR:CD2	2.44	0.52
9:AI:97:ASP:O	9:AI:105:LYS:N	2.43	0.52
19:B4:6:C:O3'	24:BE:48:LYS:HD2	2.08	0.52
24:BE:95:TRP:CG	24:BE:158:ARG:HG2	2.45	0.52
19:B4:49:G:C5'	24:BE:99:TYR:HE2	2.22	0.52
36:BQ:75:ILE:CB	36:BQ:89:LEU:HB3	2.39	0.52
36:BQ:42:ILE:HA	36:BQ:95:HIS:CE1	2.45	0.52
42:B0:85:LEU:HG	42:B0:117:ILE:CG2	2.40	0.52
18:B3:449:A:C5'	18:B3:1306:U:C2	2.79	0.52
23:BD:135:LEU:HG	23:BD:135:LEU:O	2.08	0.52
23:BD:37:VAL:C	23:BD:38:PHE:HD1	2.13	0.52
47:B9:32:GLN:HG2	47:B9:68:TYR:HA	1.90	0.52
21:BB:101:LEU:HD22	21:BB:101:LEU:C	2.28	0.52
21:BB:101:LEU:HD13	21:BB:102:PRO:O	2.10	0.52
21:BB:134:ILE:HD13	21:BB:136:ILE:HG12	1.91	0.52
21:BB:149:LEU:CB	21:BB:150:PRO:HD2	2.38	0.52
21:BB:157:ILE:C	21:BB:157:ILE:HD13	2.29	0.52
21:BB:175:ASP:OD2	47:B9:68:TYR:CE1	2.63	0.52
18:B3:1847:A:H5''	21:BB:178:LEU:HG	1.91	0.52
21:BB:19:THR:HG23	21:BB:20:ARG:N	2.24	0.52
18:B3:2442:G:C5'	41:BV:60:PHE:CE2	2.66	0.52
18:B3:1024:G:H2'	25:BF:104:LEU:CD1	2.36	0.52
25:BF:150:ARG:HA	25:BF:150:ARG:NE	2.23	0.52
18:B3:2468:A:C4	46:BZ:55:PRO:CD	2.91	0.52
18:B3:1729:A:H2	18:B3:2840:A:O2'	1.91	0.52
18:B3:2720:C:O2	37:BR:84:SER:CB	2.57	0.52
18:B3:2820:A:C5'	22:BC:102:THR:H	2.16	0.52
22:BC:112:GLU:HG2	22:BC:173:LYS:C	2.29	0.52
22:BC:113:VAL:HG13	22:BC:117:PHE:CE1	2.37	0.52
22:BC:228:VAL:CB	22:BC:232:TRP:CZ2	2.93	0.52
18:B3:2615:U:C5'	22:BC:240:LYS:HG3	2.39	0.52
18:B3:1007:A:N6	28:BI:19:LYS:HD2	2.24	0.52
18:B3:2237:G:O2'	18:B3:2238:A:C8	2.60	0.52
31:BL:158:ARG:CZ	31:BL:158:ARG:HB3	2.39	0.52
31:BL:168:LYS:CD	31:BL:169:LYS:HG2	2.39	0.52
31:BL:52:TYR:HB2	31:BL:132:ILE:CD1	2.39	0.52
35:BP:117:HIS:HB2	35:BP:118:LEU:CD1	2.39	0.52
35:BP:62:THR:HG23	35:BP:62:THR:O	2.09	0.52
7:AG:121:ASN:OD1	7:AG:128:PRO:HD3	2.09	0.52
18:B3:2337:G:O2'	29:BJ:127:TYR:HA	2.07	0.52
18:B3:2346:C:C5'	29:BJ:47:SER:N	2.64	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:96:SER:CB	29:BJ:101:PHE:CE2	2.93	0.52
18:B3:2166:G:OP2	20:BA:59:PRO:O	2.27	0.52
18:B3:1448:A:O3'	39:BT:110:ASN:OD1	2.26	0.52
39:BT:132:LEU:HG	39:BT:133:ASP:N	2.24	0.52
10:AJ:70:THR:OG1	14:AN:41:CYS:N	2.42	0.52
1:AA:299:G:H2'	1:AA:300:A:C8	2.44	0.52
5:AD:85:VAL:HG13	5:AD:86:LEU:N	2.24	0.52
1:AA:520:A:H4'	12:AL:90:ASP:CB	2.39	0.52
1:AA:523:A:C2	12:AL:115:GLY:C	2.83	0.52
1:AA:551:U:HO2'	12:AL:105:ALA:HB1	1.68	0.52
12:AL:93:LEU:N	12:AL:93:LEU:HD22	2.25	0.52
18:B3:762:C:N4	41:BV:23:LYS:NZ	2.48	0.52
2:AT:110:ASP:C	2:AT:483:PHE:HB2	2.30	0.52
2:AT:464:LEU:CB	2:AT:509:LYS:O	2.58	0.52
37:BR:39:VAL:HG12	37:BR:58:VAL:CG1	2.39	0.52
18:B3:1139:U:H4'	32:BM:129:LYS:HE2	1.91	0.52
27:BH:128:VAL:HG12	27:BH:129:ARG:O	2.09	0.52
27:BH:46:THR:HA	27:BH:55:VAL:HB	1.92	0.52
27:BH:63:LYS:CG	32:BM:131:GLY:H	2.21	0.52
18:B3:1244:U:P	32:BM:14:LEU:CD1	2.85	0.52
18:B3:1244:U:H6	32:BM:43:SER:HG	1.51	0.52
32:BM:52:LYS:N	32:BM:58:ARG:HG2	2.23	0.52
1:AA:778:G:C2	11:AK:132:ARG:NH2	2.76	0.52
35:BP:11:ALA:O	35:BP:18:LYS:HE3	2.09	0.52
43:BW:27:ARG:HB2	43:BW:63:VAL:O	2.10	0.52
46:BZ:66:LYS:HE2	46:BZ:86:ARG:HD2	1.92	0.52
40:BU:60:ARG:HA	40:BU:60:ARG:HH11	1.74	0.52
12:AL:62:LYS:O	12:AL:63:GLN:HB2	2.08	0.52
41:BV:129:VAL:CG2	41:BV:133:ALA:HB3	2.39	0.52
41:BV:87:ASP:HB3	41:BV:89:TYR:CE1	2.44	0.52
1:AA:118:U:H1'	1:AA:122:G:H1'	1.87	0.52
15:AO:120:ARG:HH11	15:AO:120:ARG:HB2	1.72	0.52
18:B3:112:G:C8	18:B3:114:A:H1'	2.40	0.52
20:BA:90:LEU:HD11	20:BA:120:VAL:N	2.24	0.52
20:BA:179:LEU:HD13	20:BA:179:LEU:C	2.29	0.52
2:AT:758:GLU:HG3	2:AT:767:THR:OG1	2.09	0.52
24:BE:131:LEU:HG	24:BE:132:THR:H	1.73	0.52
5:AD:168:ARG:HB3	5:AD:169:PRO:HD3	1.90	0.52
1:AA:853:G:O2'	1:AA:854:G:H5'	2.09	0.52
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.45	0.52
2:AT:88:GLU:CD	2:AT:223:ARG:HH21	2.13	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:977:A:C2'	1:AA:978:A:H5''	2.37	0.52
1:AA:988:G:N9	1:AA:1015:A:N7	2.58	0.52
18:B3:541:C:P	42:B0:15:LYS:CD	2.97	0.52
42:B0:15:LYS:HE3	42:B0:16:LYS:O	2.09	0.52
42:B0:19:ARG:CB	42:B0:32:TRP:HA	2.35	0.52
18:B3:629:A:H5'	42:B0:39:ASP:CA	2.39	0.52
9:AI:97:ASP:C	9:AI:104:LEU:N	2.63	0.52
9:AI:96:VAL:HG13	9:AI:104:LEU:CB	2.39	0.52
24:BE:157:ALA:HB3	24:BE:160:PHE:HD2	1.68	0.52
33:BN:25:PHE:CZ	33:BN:28:THR:CG2	2.92	0.52
42:B0:106:VAL:O	42:B0:106:VAL:HG12	2.09	0.52
18:B3:28:G:H4'	18:B3:1317:A:C2	2.44	0.52
23:BD:149:LEU:O	23:BD:248:ILE:HA	2.09	0.52
18:B3:1351:G:H5'	23:BD:46:ARG:HB2	1.92	0.52
18:B3:52:A:H5'	45:BY:20:ARG:NH1	2.09	0.52
47:B9:60:LYS:HD3	47:B9:60:LYS:N	2.24	0.52
21:BB:106:VAL:HG13	21:BB:135:ILE:CD1	2.39	0.52
21:BB:116:GLU:CG	21:BB:162:ARG:HE	2.17	0.52
25:BF:157:LYS:HE2	25:BF:159:ARG:NH2	2.25	0.52
25:BF:94:ILE:HD12	25:BF:94:ILE:C	2.30	0.52
18:B3:67:A:C1'	39:BT:60:LYS:HZ2	2.22	0.52
44:BX:40:SER:HB3	44:BX:44:ILE:HG22	1.92	0.52
18:B3:1134:G:O4'	18:B3:1229:C:H5'	2.09	0.52
18:B3:2912:C:H2'	18:B3:2913:A:O4'	2.09	0.52
22:BC:112:GLU:O	22:BC:173:LYS:HB2	2.09	0.52
22:BC:238:PRO:HB2	22:BC:240:LYS:NZ	2.23	0.52
22:BC:359:ASP:HB2	38:BS:16:GLY:N	2.23	0.52
18:B3:2861:G:O2'	22:BC:364:PHE:CE1	2.62	0.52
22:BC:69:ARG:HD3	37:BR:89:ASP:HA	1.86	0.52
28:BI:103:LEU:HB2	28:BI:118:ALA:HB3	1.90	0.52
18:B3:1002:G:H2'	28:BI:90:ARG:NH2	2.07	0.52
22:BC:358:ILE:C	38:BS:16:GLY:H	2.13	0.52
18:B3:1705:C:H5''	35:BP:62:THR:HG1	1.72	0.52
18:B3:1805:G:C4	18:B3:2883:A:C2	2.98	0.52
18:B3:2345:A:OP1	18:B3:2346:C:H5	1.92	0.52
29:BJ:91:ARG:HD2	29:BJ:92:ASP:N	2.25	0.52
18:B3:2214:A:C4	20:BA:106:LYS:HD2	2.45	0.52
20:BA:63:MET:CE	20:BA:159:LEU:C	2.78	0.52
18:B3:1675:C:C5	39:BT:112:LEU:HA	2.45	0.52
39:BT:134:ILE:HG23	39:BT:134:ILE:O	2.10	0.52
8:AH:36:PHE:HA	8:AH:109:ILE:CD1	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:56:LYS:HA	12:AL:72:VAL:HG12	1.91	0.52
12:AL:93:LEU:C	12:AL:94:ASN:HD22	2.12	0.52
18:B3:1295:G:OP1	41:BV:19:GLY:N	2.42	0.52
18:B3:164:G:H5'	41:BV:31:ARG:CG	2.40	0.52
9:AI:122:ARG:CB	9:AI:123:PRO:HD2	2.34	0.52
27:BH:92:TYR:CD1	27:BH:101:VAL:HG21	2.44	0.52
35:BP:11:ALA:HB2	35:BP:16:VAL:CG2	2.38	0.52
18:B3:1131:G:C4	18:B3:2523:U:P	3.01	0.52
1:AA:357:G:O2'	1:AA:358:U:H5'	2.10	0.52
18:B3:2396:C:O2'	41:BV:46:LYS:CD	2.57	0.52
45:BY:37:GLY:H	45:BY:44:ARG:CB	2.23	0.52
1:AA:55:A:C2	2:AT:68:ILE:CG1	2.92	0.52
29:BJ:132:ARG:HB2	29:BJ:133:PRO:CD	2.40	0.52
4:AC:161:GLN:NE2	4:AC:161:GLN:HA	2.25	0.52
20:BA:24:LYS:HD2	20:BA:25:LYS:HB3	1.91	0.52
36:BQ:31:LEU:HD13	36:BQ:31:LEU:C	2.29	0.52
2:AT:88:GLU:OE2	2:AT:223:ARG:NH2	2.43	0.52
1:AA:983:A:H5'	1:AA:984:C:OP2	2.09	0.52
1:AA:1319:A:C8	17:AS:49:MET:SD	3.01	0.52
13:AM:90:ASN:OD1	13:AM:109:LEU:HB2	2.10	0.52
7:AG:110:VAL:HG23	7:AG:111:ARG:N	2.23	0.52
9:AI:30:VAL:O	9:AI:30:VAL:HG13	2.09	0.52
9:AI:50:PRO:HD3	9:AI:115:LEU:HD11	1.91	0.52
9:AI:68:VAL:HG13	9:AI:68:VAL:O	2.09	0.52
10:AJ:51:VAL:HG13	10:AJ:51:VAL:O	2.09	0.52
10:AJ:58:LEU:HG	10:AJ:90:TYR:HD2	1.71	0.52
10:AJ:97:VAL:H	10:AJ:99:ILE:HG13	1.75	0.52
19:B4:118:C:P	24:BE:70:THR:OG1	2.66	0.52
33:BN:30:GLU:CD	33:BN:81:ARG:HH22	2.13	0.52
33:BN:9:ASN:HB3	33:BN:11:ALA:N	2.25	0.52
18:B3:646:G:C4'	23:BD:106:ARG:HH21	2.14	0.52
34:BO:83:VAL:HG22	34:BO:103:ALA:CB	2.40	0.52
18:B3:1359:U:O4	23:BD:71:ALA:O	2.27	0.52
45:BY:32:THR:HB	45:BY:38:TYR:HD1	1.70	0.52
18:B3:1875:A:C2	21:BB:151:SER:HB2	2.44	0.52
44:BX:20:GLN:HA	44:BX:23:ASP:CG	2.30	0.52
44:BX:51:ILE:HG23	44:BX:52:ALA:N	2.24	0.52
18:B3:2656:G:OP1	22:BC:17:PRO:O	2.28	0.52
22:BC:341:LEU:O	22:BC:341:LEU:HG	2.09	0.52
28:BI:76:MET:HE1	28:BI:151:GLY:HA3	1.91	0.52
22:BC:358:ILE:C	38:BS:16:GLY:N	2.63	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:155:C:OP2	31:BL:190:TRP:CG	2.62	0.52
18:B3:265:U:OP1	31:BL:54:ALA:N	2.43	0.52
26:BG:119:LYS:HB2	26:BG:188:LEU:CG	2.39	0.52
31:BL:117:SER:OG	31:BL:130:GLU:HB3	2.09	0.52
35:BP:62:THR:HA	35:BP:65:HIS:CD2	2.36	0.52
35:BP:63:ARG:NH1	35:BP:65:HIS:H	2.07	0.52
29:BJ:13:ILE:HD13	29:BJ:16:LEU:CD1	2.39	0.52
29:BJ:67:HIS:O	29:BJ:68:VAL:HG23	2.10	0.52
20:BA:102:LYS:HG3	20:BA:105:LYS:CE	2.37	0.52
39:BT:63:GLU:HG3	39:BT:64:GLN:N	2.17	0.52
1:AA:403:C:H5'	1:AA:620:C:O2	2.10	0.52
3:AB:132:ILE:HD12	3:AB:142:VAL:CG1	2.39	0.52
2:AT:539:GLU:CD	18:B3:2699:A:H4'	2.24	0.52
37:BR:102:ILE:O	37:BR:102:ILE:HD13	2.09	0.52
18:B3:2557:U:C2'	18:B3:2800:A:H8	2.23	0.52
27:BH:10:ILE:HG22	27:BH:54:LYS:HD2	1.90	0.52
27:BH:20:ILE:CB	27:BH:25:VAL:HA	2.40	0.52
27:BH:27:VAL:HG23	27:BH:34:LEU:O	2.10	0.52
27:BH:8:GLN:C	27:BH:54:LYS:HG2	2.30	0.52
32:BM:13:HIS:HD2	32:BM:14:LEU:O	1.93	0.52
32:BM:35:VAL:HG12	32:BM:36:ARG:H	1.75	0.52
1:AA:921:U:H5'	1:AA:1081:G:H5'	1.91	0.52
35:BP:42:LYS:H	35:BP:44:VAL:HG12	1.75	0.52
43:BW:16:HIS:HB2	43:BW:30:ARG:NE	2.25	0.52
18:B3:2381:C:H4'	46:BZ:8:LYS:CE	2.40	0.52
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.45	0.52
1:AA:1499:A:C5'	1:AA:1520:G:O2'	2.57	0.52
2:AT:748:ASN:C	18:B3:2508:C:H1'	2.30	0.52
1:AA:404:U:C2	5:AD:19:TYR:OH	2.59	0.52
1:AA:405:U:N3	5:AD:26:ALA:HB3	2.25	0.52
1:AA:1501:C:OP1	1:AA:1508:G:H8	1.78	0.52
1:AA:246:A:N6	1:AA:281:G:H1'	2.24	0.52
1:AA:281:G:O2'	1:AA:282:A:P	2.67	0.52
18:B3:1530:U:P	21:BB:69:ARG:HD3	2.50	0.52
18:B3:2472:C:O2'	18:B3:2634:G:H4'	2.10	0.52
20:BA:8:GLN:NE2	20:BA:216:LEU:HD11	2.24	0.52
21:BB:220:LYS:HB2	21:BB:220:LYS:NZ	2.25	0.52
30:BK:139:VAL:HG22	30:BK:139:VAL:O	2.09	0.52
22:BC:7:ALA:N	22:BC:8:PRO:HA	2.25	0.52
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.92	0.52
13:AM:28:ILE:HG13	13:AM:32:LEU:HD13	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:91:ASP:HA	13:AM:109:LEU:CG	2.40	0.52
1:AA:956:U:C4'	17:AS:126:VAL:CG1	2.87	0.52
9:AI:88:LEU:CD2	9:AI:104:LEU:HD22	2.37	0.52
10:AJ:24:ILE:HG22	10:AJ:26:LEU:HD12	1.92	0.52
19:B4:35:C:OP2	24:BE:185:PHE:CZ	2.58	0.52
18:B3:26:U:H1'	18:B3:1320:U:C6	2.44	0.52
18:B3:511:A:OP2	18:B3:517:U:OP1	2.27	0.52
23:BD:160:LYS:HE2	23:BD:163:GLU:CG	2.40	0.52
23:BD:168:LEU:HD12	23:BD:169:LYS:H	1.71	0.52
34:BO:72:LYS:HB2	34:BO:74:GLU:CG	2.39	0.52
18:B3:2275:G:C8	31:BL:80:TYR:CD2	2.92	0.52
30:BK:64:ILE:HG12	30:BK:70:ALA:HB2	1.92	0.52
21:BB:79:GLU:CG	21:BB:80:GLY:H	2.14	0.52
18:B3:1233:A:N6	18:B3:2526:C:C6	2.78	0.52
18:B3:2093:G:OP1	22:BC:250:CYS:HA	2.09	0.52
22:BC:46:LEU:HB2	22:BC:338:ARG:H	1.75	0.52
22:BC:46:LEU:HD13	22:BC:338:ARG:CG	2.40	0.52
28:BI:121:LYS:C	28:BI:121:LYS:HZ2	2.13	0.52
26:BG:149:LEU:HD11	26:BG:214:VAL:HG11	1.91	0.52
31:BL:122:GLN:HG3	31:BL:128:TYR:CE1	2.43	0.52
31:BL:60:ILE:HG21	31:BL:132:ILE:HG12	1.88	0.52
18:B3:1816:C:OP1	18:B3:2747:C:OP1	2.28	0.52
38:BS:51:TRP:CH2	38:BS:56:ARG:HD2	2.45	0.52
29:BJ:13:ILE:HD13	29:BJ:16:LEU:HD12	1.90	0.52
29:BJ:39:LEU:O	29:BJ:40:SER:HB2	2.09	0.52
18:B3:2344:G:N1	29:BJ:56:PHE:CZ	2.51	0.52
29:BJ:70:VAL:O	29:BJ:71:ARG:HB3	2.09	0.52
4:AC:46:GLU:HA	4:AC:46:GLU:OE1	2.09	0.52
14:AN:36:ASN:HB3	14:AN:42:PHE:N	2.24	0.52
3:AB:64:ALA:O	3:AB:183:LEU:HD22	2.09	0.52
6:AE:153:LEU:HD11	6:AE:220:THR:HG21	1.88	0.52
12:AL:117:ILE:CG1	12:AL:120:VAL:HG21	2.40	0.52
1:AA:69:G:OP2	1:AA:172:A:C2'	2.57	0.52
18:B3:1398:G:H2'	18:B3:1399:A:C8	2.44	0.52
40:BU:63:LYS:HG2	40:BU:63:LYS:O	2.09	0.52
1:AA:568:G:OP1	6:AE:202:LYS:NZ	2.41	0.52
18:B3:905:C:N3	18:B3:1330:A:N3	2.57	0.52
2:AT:501:LEU:HB2	2:AT:502:PRO:HD3	1.90	0.52
41:BV:82:PRO:CD	41:BV:120:VAL:HG13	2.26	0.52
1:AA:728:A:N1	15:AO:108:LYS:NZ	2.37	0.52
40:BU:14:LYS:NZ	40:BU:15:ALA:H	2.06	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:178:LYS:O	31:BL:179:PHE:HB2	2.09	0.52
1:AA:125:U:H5''	1:AA:291:C:C1'	2.40	0.52
2:AT:757:GLU:CB	18:B3:1171:A:C1'	2.88	0.52
3:AB:37:PHE:HB2	3:AB:48:ASN:HB3	1.91	0.52
4:AC:174:VAL:O	4:AC:174:VAL:HG12	2.09	0.52
29:BJ:8:MET:HG3	29:BJ:9:ARG:HE	1.73	0.52
18:B3:1096:U:C3'	25:BF:213:TRP:HZ3	2.23	0.52
1:AA:992:U:O2'	1:AA:993:G:OP2	2.26	0.52
1:AA:1167:A:H2'	1:AA:1168:A:C8	2.44	0.52
5:AD:148:VAL:HG13	5:AD:154:LYS:HZ2	1.75	0.52
1:AA:148:G:H2'	1:AA:149:A:C8	2.45	0.52
18:B3:2858:U:H2'	18:B3:2859:C:C6	2.44	0.52
24:BE:177:GLU:HG2	24:BE:178:ASN:N	2.25	0.52
1:AA:988:G:C1'	1:AA:1015:A:C8	2.93	0.52
13:AM:56:LYS:HE3	13:AM:60:GLU:HG3	1.91	0.52
9:AI:54:VAL:CG1	9:AI:88:LEU:HD21	2.35	0.52
10:AJ:21:LYS:HG2	10:AJ:21:LYS:O	2.09	0.52
10:AJ:22:ILE:HG23	10:AJ:116:VAL:CG1	2.40	0.52
19:B4:7:G:H8	24:BE:22:ARG:CG	2.20	0.52
33:BN:114:SER:HB3	33:BN:148:VAL:CG1	2.39	0.52
18:B3:721:A:N3	34:BO:141:ARG:HG3	2.25	0.52
23:BD:207:VAL:H	23:BD:224:VAL:CG2	2.23	0.52
23:BD:230:ALA:O	23:BD:231:SER:HB3	2.04	0.52
18:B3:722:G:H1'	34:BO:141:ARG:NE	2.24	0.52
34:BO:60:PRO:HB2	34:BO:61:PRO:HA	1.92	0.52
18:B3:797:A:C2'	18:B3:798:G:C1'	2.79	0.52
47:B9:21:LEU:O	47:B9:22:ARG:HB3	2.09	0.52
47:B9:60:LYS:O	47:B9:60:LYS:HG2	2.10	0.52
21:BB:176:LYS:HA	21:BB:176:LYS:NZ	2.24	0.52
18:B3:107:U:O2'	44:BX:56:THR:CA	2.55	0.52
18:B3:2846:C:C2'	22:BC:172:GLN:CD	2.78	0.52
22:BC:214:ILE:CD1	22:BC:340:SER:HA	2.40	0.52
22:BC:229:THR:HG22	22:BC:246:ARG:HG3	1.91	0.52
22:BC:89:VAL:CG2	22:BC:158:ARG:HG2	2.40	0.52
28:BI:76:MET:HE2	28:BI:151:GLY:HA3	1.92	0.52
26:BG:104:LYS:HE2	26:BG:180:LYS:HB2	1.90	0.52
18:B3:1597:A:C4'	35:BP:94:TRP:CH2	2.93	0.52
29:BJ:160:SER:O	29:BJ:161:TRP:HB2	2.09	0.52
29:BJ:71:ARG:HH21	29:BJ:72:GLY:HA2	1.75	0.52
29:BJ:78:ILE:O	29:BJ:79:LEU:HB3	2.09	0.52
18:B3:2166:G:N7	20:BA:60:ARG:C	2.59	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1673:U:OP1	39:BT:110:ASN:HA	2.09	0.52
39:BT:74:LYS:HG2	39:BT:81:LEU:HB3	1.91	0.52
1:AA:560:U:C2	1:AA:563:A:C5'	2.93	0.52
1:AA:618:C:OP1	5:AD:140:ILE:O	2.28	0.52
6:AE:156:LYS:O	8:AH:127:PHE:CE2	2.63	0.52
1:AA:552:U:C5'	12:AL:106:GLY:O	2.55	0.52
18:B3:1993:C:C5'	37:BR:71:LYS:CA	1.94	0.52
9:AI:13:LYS:NZ	9:AI:74:VAL:HG12	2.24	0.52
18:B3:1115:U:O3'	18:B3:1140:C:O2	2.28	0.52
27:BH:113:GLU:O	27:BH:125:ASN:HB2	2.09	0.52
27:BH:129:ARG:HH11	27:BH:156:GLN:NE2	2.08	0.52
27:BH:26:LYS:HE3	27:BH:26:LYS:O	2.10	0.52
27:BH:63:LYS:CG	32:BM:131:GLY:N	2.73	0.52
32:BM:11:LYS:HG2	32:BM:12:GLY:H	1.75	0.52
35:BP:40:ILE:CA	35:BP:43:LEU:HD21	2.33	0.52
18:B3:81:G:OP1	40:BU:72:SER:O	2.28	0.52
1:AA:21:G:C1'	1:AA:885:G:C4'	2.85	0.52
41:BV:11:ARG:HG2	41:BV:12:GLY:H	1.73	0.52
1:AA:292:G:C1'	1:AA:608:A:C5	2.53	0.52
41:BV:131:LYS:CE	41:BV:131:LYS:HA	2.30	0.52
18:B3:1154:A:OP2	18:B3:1156:C:C5	2.61	0.52
4:AC:105:LYS:HG2	4:AC:172:ARG:HB3	1.91	0.52
1:AA:55:A:N3	2:AT:67:GLY:C	2.41	0.52
1:AA:346:G:H2'	1:AA:347:G:H5'	1.91	0.52
29:BJ:8:MET:CG	29:BJ:9:ARG:HE	2.23	0.52
4:AC:157:ILE:O	4:AC:158:HIS:HB2	2.10	0.52
18:B3:559:U:O2'	18:B3:560:C:H5'	2.10	0.52
18:B3:282:C:O2'	18:B3:283:U:C4'	2.57	0.52
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.45	0.52
9:AI:52:LEU:HG	9:AI:57:ASP:CG	2.29	0.52
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.10	0.52
1:AA:1003(A):G:N1	1:AA:1004:A:H1'	2.25	0.52
18:B3:1217:G:H2'	18:B3:1218:U:H6	1.75	0.52
18:B3:790:A:H2'	18:B3:791:A:O4'	2.09	0.52
1:AA:1318:A:O2'	17:AS:83:MET:C	2.45	0.52
13:AM:26:ILE:HG23	13:AM:27:LYS:O	2.09	0.52
1:AA:1297:C:C3'	13:AM:56:LYS:CA	2.52	0.52
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.40	0.52
10:AJ:25:THR:HG23	10:AJ:25:THR:O	2.10	0.52
10:AJ:52:LYS:HE2	10:AJ:93:LEU:HB2	1.92	0.52
19:B4:11:A:N3	24:BE:12:TYR:N	2.50	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:83:LEU:CG	24:BE:104:LEU:HD13	2.39	0.52
24:BE:80:SER:C	24:BE:92:LEU:HD13	2.31	0.52
33:BN:106:LEU:N	33:BN:106:LEU:HD13	2.25	0.52
33:BN:37:GLY:H	33:BN:113:VAL:CG1	2.17	0.52
18:B3:1309:U:H2'	18:B3:1310:U:C5'	2.40	0.52
23:BD:165:VAL:HA	23:BD:168:LEU:CG	2.39	0.52
23:BD:186:LEU:H	23:BD:186:LEU:HD23	1.75	0.52
18:B3:1348:A:H5''	23:BD:241:ALA:CB	2.15	0.52
34:BO:116:LYS:HG2	34:BO:117:ALA:N	2.22	0.52
18:B3:2101:A:H5''	23:BD:70:VAL:O	2.09	0.52
18:B3:857:A:C4'	21:BB:185:PHE:CG	2.86	0.52
21:BB:61:VAL:O	21:BB:62:PHE:HB3	2.10	0.52
1:AA:255:G:O6	1:AA:266:G:O6	2.28	0.52
16:AQ:81:ARG:HA	16:AQ:110:VAL:O	2.09	0.52
18:B3:952:G:H5''	36:BQ:14:MET:CG	2.40	0.52
18:B3:2862:G:H5'	38:BS:35:LYS:HD2	1.92	0.52
22:BC:121:TRP:HD1	22:BC:122:TYR:N	2.08	0.52
18:B3:2846:C:H4'	22:BC:174:LYS:HE3	1.86	0.52
22:BC:255:HIS:HB3	22:BC:256:PRO:CD	2.38	0.52
28:BI:98:ARG:HB2	28:BI:120:GLY:CA	2.40	0.52
28:BI:121:LYS:O	28:BI:121:LYS:HD3	2.10	0.52
28:BI:153:ARG:HH22	28:BI:154:ARG:HG2	1.75	0.52
28:BI:73:ASN:O	28:BI:76:MET:HB2	2.10	0.52
37:BR:54:LEU:HG	37:BR:85:TRP:HZ2	1.75	0.52
22:BC:69:ARG:CD	37:BR:89:ASP:HA	2.40	0.52
26:BG:135:LEU:O	26:BG:138:VAL:HG12	2.10	0.52
31:BL:134:VAL:HG11	31:BL:150:ILE:HG13	1.91	0.52
31:BL:13:LYS:NZ	31:BL:18:LEU:HG	2.24	0.52
31:BL:3:TYR:HB3	31:BL:45:ASP:HB2	1.91	0.52
31:BL:46:LYS:HB3	31:BL:118:TYR:OH	2.10	0.52
18:B3:1708:C:C5	35:BP:81:LYS:CB	2.86	0.52
18:B3:1708:C:H5'	35:BP:87:ARG:HG3	1.91	0.52
18:B3:1788:U:O2'	18:B3:2882:G:N7	2.43	0.52
29:BJ:136:ARG:NE	29:BJ:137:VAL:HA	2.24	0.52
29:BJ:48:LYS:HZ2	29:BJ:62:GLU:HG3	1.75	0.52
14:AN:36:ASN:HA	14:AN:41:CYS:HB2	1.92	0.52
3:AB:70:GLU:CB	3:AB:118:ARG:HG3	2.40	0.52
8:AH:45:TYR:CE2	8:AH:100:TYR:HE2	2.27	0.52
12:AL:130:VAL:O	12:AL:131:SER:HB2	2.09	0.52
2:AT:144:ARG:HB3	2:AT:481:MET:O	2.10	0.52
27:BH:129:ARG:CD	27:BH:156:GLN:HE22	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:18:VAL:HG11	27:BH:53:ILE:HG23	1.92	0.52
27:BH:68:LEU:H	27:BH:71:VAL:HG23	1.74	0.52
32:BM:79:PHE:CZ	32:BM:103:VAL:CB	2.93	0.52
32:BM:79:PHE:N	32:BM:79:PHE:CD1	2.78	0.52
1:AA:144:G:P	1:AA:200:G:C3'	2.84	0.52
35:BP:10:ALA:CB	35:BP:22:TRP:CZ2	2.93	0.52
1:AA:16:A:C2	1:AA:919:A:C2	2.98	0.52
1:AA:293:G:HO2'	1:AA:609:A:H2	1.30	0.52
41:BV:116:ARG:C	41:BV:117:ILE:HG12	2.29	0.52
41:BV:131:LYS:HE2	41:BV:131:LYS:CA	2.31	0.52
2:AT:736:PRO:HB2	2:AT:738:GLN:OE1	2.10	0.52
18:B3:1268:C:C5'	42:B0:61:LYS:CB	2.85	0.52
18:B3:218:C:N4	41:BV:54:LYS:NZ	2.57	0.52
11:AK:90:THR:HG22	11:AK:91:LYS:N	2.24	0.52
3:AB:108:ASN:HD22	3:AB:111:THR:CB	2.22	0.52
32:BM:98:LEU:O	32:BM:101:LEU:HD13	2.10	0.52
37:BR:136:VAL:HG23	37:BR:137:VAL:HG23	1.91	0.52
7:AG:138:ASN:HD21	7:AG:202:LYS:HD2	1.74	0.52
18:B3:1717:A:P	35:BP:55:THR:CG2	2.97	0.52
4:AC:161:GLN:HE21	4:AC:161:GLN:HA	1.75	0.52
6:AE:124:ILE:O	6:AE:128:ILE:HG13	2.10	0.52
7:AG:84:ALA:HB3	7:AG:89:ILE:HD11	1.89	0.52
18:B3:503:G:H2'	18:B3:504:G:H8	1.74	0.52
18:B3:236:A:H4'	18:B3:237:G:OP1	2.10	0.52
1:AA:1314:C:C5	17:AS:49:MET:C	2.82	0.52
1:AA:1321:C:N4	17:AS:81:ARG:HG3	2.25	0.52
18:B3:618:G:C1'	42:B0:41:VAL:CG2	2.87	0.52
10:AJ:54:GLY:C	10:AJ:91:ILE:HG23	2.30	0.52
18:B3:1010:C:O4'	24:BE:15:ARG:CD	2.28	0.52
19:B4:8:G:C5	24:BE:21:ARG:CD	2.85	0.52
24:BE:207:TYR:CG	24:BE:208:MET:N	2.77	0.52
18:B3:2394:A:O4'	36:BQ:83:ARG:NH2	2.43	0.52
33:BN:111:LEU:N	33:BN:111:LEU:HD12	2.24	0.52
33:BN:17:ARG:HD3	33:BN:145:ILE:CG1	2.40	0.52
23:BD:106:ARG:HD3	23:BD:106:ARG:C	2.30	0.52
23:BD:33:ILE:HD12	23:BD:33:ILE:H	1.75	0.52
34:BO:44:PHE:O	34:BO:45:ASN:HB2	2.10	0.52
34:BO:46:LYS:HE3	34:BO:50:LYS:HE3	1.91	0.52
18:B3:771:G:OP1	31:BL:76:LYS:CG	2.58	0.52
21:BB:118:LYS:HB3	21:BB:119:PRO:HD2	1.92	0.52
21:BB:190:LEU:CD2	21:BB:190:LEU:H	2.20	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:85:A:H4'	25:BF:131:PRO:CB	2.23	0.52
25:BF:106:ARG:HB2	25:BF:114:THR:HG21	1.92	0.52
25:BF:168:ILE:CD1	25:BF:168:ILE:H	2.21	0.52
1:AA:190(F):G:N9	1:AA:265:G:OP1	2.41	0.52
22:BC:210:GLN:HG2	22:BC:284:VAL:HG23	1.92	0.52
18:B3:2134:G:C8	18:B3:2258:A:C6	2.97	0.52
26:BG:121:LYS:HD3	26:BG:206:ASP:HB3	1.91	0.52
26:BG:211:ALA:C	26:BG:214:VAL:HG22	2.30	0.52
18:B3:1814:G:C8	18:B3:2731:G:N3	2.78	0.52
18:B3:793:A:OP1	35:BP:85:GLU:HB3	2.10	0.52
18:B3:1596:U:OP2	35:BP:102:ARG:HD3	2.10	0.52
35:BP:94:TRP:CH2	35:BP:95:ILE:CG2	2.93	0.52
7:AG:189:ILE:HG22	7:AG:193:LEU:HD13	1.91	0.52
18:B3:2338:G:O2'	18:B3:2339:A:P	2.67	0.52
29:BJ:44:PRO:O	29:BJ:67:HIS:HB3	2.09	0.52
29:BJ:16:LEU:C	29:BJ:70:VAL:HG13	2.29	0.52
18:B3:2165:G:OP2	20:BA:59:PRO:HB3	2.10	0.52
39:BT:67:THR:HG23	39:BT:67:THR:O	2.10	0.52
18:B3:123:U:C2	39:BT:88:LYS:HE3	2.44	0.52
4:AC:6:LYS:CA	4:AC:6:LYS:HE3	2.29	0.52
14:AN:37:ILE:HG23	14:AN:38:CYS:N	2.25	0.52
3:AB:35:TYR:CD1	3:AB:160:PRO:HG3	2.45	0.52
5:AD:100:LYS:CB	5:AD:191:ALA:HB3	2.38	0.52
6:AE:169:ILE:HG23	6:AE:196:TYR:HB3	1.88	0.52
1:AA:59:A:C4'	1:AA:388:G:C4	2.92	0.52
27:BH:126:VAL:HB	27:BH:127:PRO:HA	1.92	0.52
27:BH:19:SER:H	27:BH:48:VAL:HG21	1.75	0.52
35:BP:41:ARG:CZ	35:BP:44:VAL:HB	2.39	0.52
43:BW:55:ASN:HA	43:BW:58:ILE:CG2	2.39	0.52
43:BW:55:ASN:C	43:BW:58:ILE:HG22	2.30	0.52
1:AA:791:G:H2'	1:AA:792:A:C5'	2.40	0.52
6:AE:182:ALA:O	6:AE:185:LYS:HG2	2.10	0.52
1:AA:1343:G:O4'	9:AI:138:GLN:OE1	2.27	0.52
42:B0:60:ASN:HD22	42:B0:60:ASN:H	1.56	0.52
12:AL:61:SER:HB3	12:AL:65:ASN:O	2.10	0.52
11:AK:40:ARG:NH2	11:AK:45:MET:HA	2.25	0.52
18:B3:873:G:H21	18:B3:876:A:H62	1.56	0.52
20:BA:196:LYS:O	20:BA:197:ASN:HB2	2.10	0.52
30:BK:93:LYS:HE3	30:BK:96:LYS:CB	2.40	0.52
11:AK:98:GLN:OE1	11:AK:101:LEU:HD23	2.10	0.52
18:B3:2906:A:H5'	18:B3:2907:C:O4'	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:818:G:O2'	1:AA:819:A:H5''	2.09	0.52
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.10	0.52
18:B3:1616:A:H2'	18:B3:1618:G:C8	2.46	0.52
1:AA:988:G:H3'	1:AA:1015:A:H62	1.73	0.51
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.10	0.51
1:AA:954:G:H2'	1:AA:955:U:C6	2.44	0.51
17:AS:87:PRO:CG	17:AS:112:LEU:HD23	2.39	0.51
19:B4:36:C:OP2	24:BE:185:PHE:HE2	1.94	0.51
24:BE:50:ARG:HB3	24:BE:147:ASP:OD1	2.10	0.51
42:B0:90:LYS:HG3	42:B0:90:LYS:O	2.10	0.51
18:B3:449:A:C5	18:B3:1349:G:C2'	2.92	0.51
18:B3:449:A:P	18:B3:1306:U:O4'	2.69	0.51
18:B3:660:A:OP2	34:BO:88:THR:OG1	2.27	0.51
18:B3:709:G:H5''	34:BO:43:PRO:CB	2.28	0.51
23:BD:130:VAL:O	23:BD:147:ILE:HG13	2.09	0.51
23:BD:75:ARG:HG2	23:BD:81:THR:N	2.18	0.51
18:B3:1181:A:H2	30:BK:105:GLN:CG	2.23	0.51
18:B3:1167:G:C2'	30:BK:111:GLU:N	2.73	0.51
30:BK:85:LEU:HD11	30:BK:102:GLY:CA	2.31	0.51
21:BB:61:VAL:HG13	21:BB:62:PHE:CD1	2.46	0.51
21:BB:74:ILE:N	21:BB:74:ILE:HD12	2.25	0.51
25:BF:97:LYS:HB3	25:BF:98:PRO:CD	2.34	0.51
1:AA:252:U:H2'	1:AA:253:U:C6	2.44	0.51
18:B3:72:C:P	44:BX:49:LYS:CE	2.97	0.51
18:B3:2829:G:P	22:BC:130:THR:CG2	2.96	0.51
22:BC:104:VAL:CA	22:BC:105:TRP:CE3	2.93	0.51
22:BC:159:VAL:HG22	22:BC:160:LEU:N	2.24	0.51
22:BC:162:HIS:CA	22:BC:177:LEU:HB2	2.30	0.51
22:BC:243:ARG:HD3	22:BC:243:ARG:H	1.73	0.51
22:BC:246:ARG:C	22:BC:246:ARG:HD3	2.31	0.51
22:BC:251:ILE:CG2	22:BC:259:VAL:HG21	2.37	0.51
22:BC:261:TRP:O	22:BC:263:VAL:HG13	2.10	0.51
22:BC:341:LEU:N	22:BC:341:LEU:HD23	2.22	0.51
22:BC:48:TYR:CE2	22:BC:334:ILE:CG2	2.93	0.51
28:BI:58:GLU:HB2	28:BI:128:ARG:HB3	1.90	0.51
18:B3:1056:U:OP1	28:BI:99:ILE:HA	2.11	0.51
26:BG:110:LYS:O	26:BG:111:GLU:HB2	2.10	0.51
26:BG:111:GLU:HB2	26:BG:117:GLU:CB	2.40	0.51
26:BG:152:ILE:HD11	26:BG:162:VAL:HG11	1.92	0.51
26:BG:158:PRO:HG2	31:BL:40:ARG:HH22	1.73	0.51
31:BL:103:GLU:HG3	31:BL:104:ARG:NH1	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:119:TRP:CD1	31:BL:129:PHE:CE2	2.98	0.51
18:B3:1713:G:H4'	18:B3:2746:A:H5'	1.91	0.51
18:B3:1761:U:C2'	35:BP:80:ARG:CZ	2.87	0.51
35:BP:142:ILE:OXT	35:BP:142:ILE:HG22	2.10	0.51
35:BP:81:LYS:O	35:BP:81:LYS:HD2	2.09	0.51
1:AA:1240:U:C4	7:AG:189:ILE:HG21	2.42	0.51
18:B3:2347:C:H4'	29:BJ:44:PRO:HB2	1.93	0.51
29:BJ:94:ASN:O	29:BJ:101:PHE:HD2	1.93	0.51
18:B3:1508:C:H5'	39:BT:77:ASP:CG	2.30	0.51
10:AJ:71:PRO:HB3	14:AN:30:VAL:HG12	1.91	0.51
5:AD:100:LYS:HG3	5:AD:196:GLU:N	2.25	0.51
1:AA:552:U:H5''	12:AL:106:GLY:O	2.00	0.51
1:AA:65:U:C2'	1:AA:383:A:C2	2.93	0.51
18:B3:2566:A:C4'	27:BH:174:LYS:NZ	2.72	0.51
35:BP:22:TRP:N	35:BP:22:TRP:CE3	2.78	0.51
46:BZ:75:LYS:O	46:BZ:77:LYS:HD3	2.11	0.51
40:BU:35:LEU:HD12	40:BU:35:LEU:N	2.25	0.51
1:AA:13:U:H4'	1:AA:914:A:H5''	1.91	0.51
18:B3:195:C:OP1	31:BL:179:PHE:N	2.42	0.51
1:AA:111:G:N3	1:AA:389:A:C4'	2.73	0.51
11:AK:55:SER:HA	11:AK:88:THR:CB	2.40	0.51
18:B3:2250:G:H2'	18:B3:2251:G:H8	1.72	0.51
15:AO:90:LEU:CB	15:AO:121:ILE:HG12	2.40	0.51
8:AH:103:LEU:HD22	8:AH:124:ILE:CA	2.32	0.51
23:BD:9:SER:OG	23:BD:15:THR:HG21	2.09	0.51
7:AG:139:THR:O	7:AG:141:PRO:HD3	2.08	0.51
11:AK:20:ALA:O	11:AK:84:ALA:HB3	2.10	0.51
2:AT:156:VAL:HG21	2:AT:334:LEU:HD22	1.91	0.51
2:AT:193:ALA:CB	2:AT:200:VAL:HG11	2.40	0.51
21:BB:37:HIS:HB3	21:BB:39:TYR:CD2	2.45	0.51
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.74	0.51
18:B3:1790:C:H2'	18:B3:1791:U:C6	2.45	0.51
1:AA:1224:G:O2'	17:AS:123:TYR:HE1	1.80	0.51
13:AM:18:LEU:N	13:AM:18:LEU:HD22	2.25	0.51
13:AM:46:VAL:CG2	13:AM:84:TRP:CZ2	2.94	0.51
42:B0:17:PHE:CD2	42:B0:32:TRP:HB2	2.45	0.51
42:B0:41:VAL:HG22	42:B0:49:ASN:HB3	1.93	0.51
9:AI:106:LYS:HG3	9:AI:107:ALA:N	2.24	0.51
9:AI:76:GLN:O	9:AI:80:ILE:HG12	2.10	0.51
9:AI:97:ASP:C	9:AI:105:LYS:N	2.63	0.51
18:B3:2295:G:O3'	36:BQ:5:HIS:C	2.49	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:183:TRP:CA	24:BE:187:THR:HA	2.41	0.51
36:BQ:95:HIS:CG	36:BQ:96:ILE:N	2.79	0.51
18:B3:496:G:N2	18:B3:1427:A:P	2.83	0.51
33:BN:111:LEU:CB	33:BN:150:THR:HB	2.40	0.51
33:BN:117:GLN:HG3	33:BN:145:ILE:CG2	2.40	0.51
18:B3:1311:G:C6	23:BD:185:LYS:CB	2.81	0.51
18:B3:1315:G:H21	42:B0:107:VAL:HB	1.49	0.51
18:B3:448:G:H3'	18:B3:1306:U:C5'	2.40	0.51
30:BK:19:GLY:HA2	30:BK:50:THR:CG2	2.37	0.51
47:B9:48:ARG:H	47:B9:48:ARG:CD	2.20	0.51
18:B3:1025:C:H4'	25:BF:104:LEU:HA	1.91	0.51
18:B3:949:U:C4'	36:BQ:100:LYS:CB	2.83	0.51
22:BC:113:VAL:HG12	22:BC:113:VAL:O	2.10	0.51
22:BC:236:LYS:CD	22:BC:237:LEU:HD23	2.40	0.51
22:BC:313:TYR:OH	22:BC:332:LYS:HB2	2.10	0.51
28:BI:101:LYS:O	28:BI:118:ALA:HB3	2.10	0.51
37:BR:83:LYS:NZ	37:BR:83:LYS:HA	2.25	0.51
37:BR:86:ARG:HG2	37:BR:87:ARG:N	2.25	0.51
31:BL:114:VAL:HB	31:BL:133:LEU:HD23	1.90	0.51
31:BL:50:LEU:N	31:BL:50:LEU:HD12	2.26	0.51
31:BL:98:ARG:HG2	31:BL:119:TRP:NE1	2.12	0.51
18:B3:1788:U:C3'	18:B3:2882:G:C5'	2.88	0.51
35:BP:89:PRO:O	35:BP:93:VAL:HG23	2.10	0.51
39:BT:66:ILE:HG21	39:BT:120:LYS:HD3	1.92	0.51
39:BT:80:ILE:HG12	39:BT:81:LEU:N	2.22	0.51
5:AD:156:ILE:HG21	5:AD:164:PHE:CZ	2.44	0.51
8:AH:23:GLN:CG	8:AH:61:VAL:HG13	2.40	0.51
6:AE:219:ASN:O	8:AH:45:TYR:OH	2.29	0.51
1:AA:67:C:C4	1:AA:70:G:N7	2.78	0.51
37:BR:23:MET:HG2	37:BR:34:LEU:CD2	2.40	0.51
32:BM:52:LYS:HG3	32:BM:53:TYR:CD1	2.45	0.51
43:BW:28:ALA:HB2	43:BW:59:TRP:CD2	2.45	0.51
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.76	0.51
5:AD:30:LEU:CG	5:AD:67:PRO:HG3	2.41	0.51
18:B3:697:G:H5''	41:BV:130:SER:OG	2.06	0.51
32:BM:64:ASN:CG	32:BM:65:LYS:H	2.14	0.51
18:B3:269:G:H5'	18:B3:274:G:O2'	2.09	0.51
11:AK:26:PHE:CD1	11:AK:41:VAL:CG1	2.94	0.51
19:B4:23:U:H3	19:B4:54:A:H5''	1.74	0.51
18:B3:280:C:O2'	18:B3:281:U:H5'	2.10	0.51
5:AD:76:LEU:N	5:AD:76:LEU:HD22	2.23	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:89:ILE:HG22	2:AT:91:GLN:HB3	1.93	0.51
22:BC:36:ARG:NH1	22:BC:36:ARG:HB2	2.25	0.51
1:AA:1006:C:H2'	1:AA:1007:C:H6	1.75	0.51
1:AA:1241:G:N7	7:AG:187:LYS:CD	2.62	0.51
1:AA:1314:C:H5	17:AS:48:GLY:O	1.94	0.51
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.11	0.51
18:B3:1072:G:O2'	18:B3:1073:A:P	2.69	0.51
9:AI:27:LEU:N	9:AI:27:LEU:HD23	2.22	0.51
9:AI:64:ILE:HG23	9:AI:64:ILE:O	2.10	0.51
24:BE:24:ARG:HH12	24:BE:25:GLU:HB2	1.75	0.51
24:BE:23:ARG:NH2	24:BE:26:GLY:HA2	2.22	0.51
24:BE:64:ILE:O	24:BE:65:ILE:HG13	2.10	0.51
19:B4:50:G:O4'	24:BE:93:THR:O	1.92	0.51
33:BN:13:SER:CB	33:BN:149:VAL:HG11	2.33	0.51
33:BN:32:ALA:O	33:BN:33:GLN:HB2	2.10	0.51
18:B3:28:G:H5''	18:B3:1343:C:H4'	1.91	0.51
23:BD:235:LEU:HD12	23:BD:236:GLN:CA	2.40	0.51
34:BO:87:VAL:O	34:BO:106:PHE:HB2	2.09	0.51
45:BY:15:HIS:N	45:BY:27:HIS:HA	2.25	0.51
21:BB:102:PRO:HG3	21:BB:162:ARG:HA	1.92	0.51
18:B3:1900:A:H5'	21:BB:238:ALA:HB1	1.91	0.51
21:BB:50:ASP:HB2	21:BB:53:ARG:HG3	1.90	0.51
21:BB:72:GLU:O	21:BB:74:ILE:HD12	2.09	0.51
25:BF:109:ARG:HG3	25:BF:112:SER:HB2	1.91	0.51
16:AQ:128:ARG:HG3	16:AQ:129:PRO:HD2	1.93	0.51
18:B3:2671:U:C6	22:BC:179:GLU:OE1	2.62	0.51
18:B3:2713:G:O2'	37:BR:45:ARG:NH2	2.24	0.51
18:B3:2037:C:C4	18:B3:2762:C:OP1	2.64	0.51
18:B3:969:G:H4'	28:BI:40:LYS:CA	2.39	0.51
18:B3:2820:A:O5'	22:BC:101:LEU:N	2.29	0.51
22:BC:283:ARG:CG	22:BC:322:MET:HE3	2.35	0.51
18:B3:2820:A:H5'	22:BC:90:GLY:C	2.30	0.51
28:BI:165:ILE:HD13	28:BI:166:ILE:O	2.10	0.51
18:B3:2312:G:O5'	28:BI:22:TYR:CE1	2.38	0.51
18:B3:967:U:O2'	28:BI:34:TYR:CD2	2.47	0.51
31:BL:138:HIS:HB3	31:BL:141:ILE:HG22	1.93	0.51
31:BL:186:ARG:HG3	31:BL:187:ARG:NH1	2.25	0.51
31:BL:34:VAL:O	31:BL:35:ILE:HB	2.10	0.51
29:BJ:166:TYR:HD1	29:BJ:167:ASP:OD2	1.92	0.51
29:BJ:36:LEU:HD12	29:BJ:36:LEU:C	2.31	0.51
39:BT:114:ARG:HG3	39:BT:116:ASN:CB	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:74:GLU:O	14:AN:40:GLN:CB	2.58	0.51
1:AA:642:A:C4	8:AH:106:SER:HA	2.46	0.51
5:AD:100:LYS:HB2	5:AD:192:ASP:O	2.11	0.51
5:AD:129:ILE:HG21	5:AD:144:PRO:HG3	1.91	0.51
1:AA:69:G:H5''	1:AA:172:A:C2'	2.36	0.51
18:B3:902:G:OP2	41:BV:21:ILE:HG12	2.11	0.51
27:BH:43:VAL:HA	27:BH:57:VAL:HB	1.93	0.51
27:BH:9:GLN:N	27:BH:54:LYS:HG2	2.26	0.51
27:BH:44:THR:CG2	27:BH:55:VAL:HG12	2.36	0.51
35:BP:3:LEU:HD22	35:BP:32:ALA:HA	1.91	0.51
43:BW:11:TYR:CD2	43:BW:35:ILE:HA	2.45	0.51
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.45	0.51
1:AA:1404:C:C2'	1:AA:1519:A:C5'	2.84	0.51
40:BU:35:LEU:HA	40:BU:106:ILE:HG12	1.92	0.51
41:BV:132:LEU:HG	41:BV:132:LEU:O	2.07	0.51
15:AO:104:ASN:ND2	15:AO:107:ASP:HB2	2.26	0.51
18:B3:112:G:H1'	18:B3:114:A:C8	2.44	0.51
1:AA:112:G:H21	1:AA:354:G:C5'	2.23	0.51
11:AK:18:ILE:HD13	11:AK:27:VAL:HG21	1.88	0.51
4:AC:98:VAL:CA	4:AC:170:ALA:CB	2.88	0.51
1:AA:562:C:C5	12:AL:33:LEU:CD2	2.93	0.51
24:BE:120:LYS:C	24:BE:120:LYS:HD2	2.29	0.51
41:BV:34:ALA:CB	41:BV:43:ASN:HB2	2.40	0.51
25:BF:190:VAL:CG1	25:BF:191:GLY:H	2.21	0.51
1:AA:1181:G:O2'	1:AA:1184:G:H5'	2.10	0.51
1:AA:746:A:O2'	1:AA:747:C:H5'	2.10	0.51
1:AA:478:A:O2'	1:AA:479:C:H5'	2.10	0.51
34:BO:57:ILE:HG22	34:BO:57:ILE:O	2.09	0.51
5:AD:161:THR:HG23	5:AD:161:THR:O	2.09	0.51
1:AA:1330:U:N1	13:AM:93:THR:O	2.41	0.51
13:AM:16:ARG:HG2	13:AM:22:VAL:CB	2.33	0.51
1:AA:1302:U:P	13:AM:54:LEU:HG	2.51	0.51
1:AA:1315:U:O4	17:AS:49:MET:HE3	2.10	0.51
18:B3:2368:A:C2	24:BE:150:LEU:HD22	2.34	0.51
18:B3:2414:A:H1'	24:BE:145:PHE:CE2	2.45	0.51
18:B3:2415:A:H2	24:BE:35:ARG:HE	0.69	0.51
24:BE:22:ARG:HA	24:BE:22:ARG:NE	2.02	0.51
24:BE:50:ARG:CZ	24:BE:52:VAL:HG21	2.40	0.51
24:BE:76:ALA:HB3	24:BE:109:THR:HG1	1.74	0.51
24:BE:75:LEU:HG	24:BE:76:ALA:N	2.26	0.51
36:BQ:75:ILE:HA	36:BQ:91:LEU:HD23	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:520:A:C5'	18:B3:1322:G:P	2.98	0.51
18:B3:1349:G:O3'	23:BD:40:SER:C	2.48	0.51
34:BO:111:ARG:HD2	34:BO:111:ARG:C	2.30	0.51
23:BD:54:LYS:HG3	23:BD:57:HIS:CB	2.37	0.51
18:B3:764:C:N1	23:BD:86:GLN:CG	2.73	0.51
18:B3:1167:G:C2'	30:BK:111:GLU:CA	2.86	0.51
30:BK:104:ILE:HD11	30:BK:108:GLU:CD	2.30	0.51
47:B9:22:ARG:NE	47:B9:24:GLN:H	2.04	0.51
21:BB:113:SER:N	21:BB:164:VAL:HG22	2.24	0.51
21:BB:180:LYS:O	21:BB:181:ALA:HB3	2.11	0.51
25:BF:82:LEU:CB	25:BF:115:PHE:CZ	2.93	0.51
1:AA:233:C:O2	16:AQ:135:ARG:NH1	2.43	0.51
18:B3:1133:A:H1'	18:B3:2520:G:C4	2.46	0.51
22:BC:125:LYS:NZ	22:BC:127:LYS:HB2	2.22	0.51
22:BC:305:THR:OG1	22:BC:316:ILE:HB	2.11	0.51
22:BC:359:ASP:HA	38:BS:14:TYR:HB2	1.92	0.51
22:BC:40:VAL:HG21	22:BC:207:VAL:CG1	2.39	0.51
18:B3:2312:G:H5''	28:BI:22:TYR:CD1	2.33	0.51
28:BI:47:PRO:O	28:BI:48:LEU:HB3	2.10	0.51
18:B3:265:U:O5'	31:BL:55:LYS:NZ	2.16	0.51
26:BG:151:LEU:CD1	26:BG:185:LEU:HD22	2.40	0.51
18:B3:2334:C:C1'	29:BJ:113:ILE:C	2.79	0.51
29:BJ:17:VAL:HG23	29:BJ:68:VAL:O	2.11	0.51
18:B3:2215:A:C1'	20:BA:106:LYS:HA	2.40	0.51
20:BA:41:TYR:CE1	20:BA:163:LEU:CD2	2.94	0.51
18:B3:1675:C:O2	39:BT:113:VAL:HG21	2.10	0.51
10:AJ:72:ASN:HA	14:AN:28:GLY:O	1.73	0.51
5:AD:99:LEU:HB3	5:AD:106:GLU:N	2.18	0.51
12:AL:102:VAL:HG23	12:AL:133:LEU:HG	1.93	0.51
41:BV:19:GLY:O	41:BV:20:ARG:HB2	2.10	0.51
18:B3:2596:A:HO2'	37:BR:74:MET:HE3	1.69	0.51
32:BM:48:ARG:HD2	32:BM:48:ARG:O	2.09	0.51
1:AA:920:U:O2'	1:AA:1081:G:O5'	2.27	0.51
1:AA:204:U:H4'	1:AA:216:G:O5'	2.09	0.51
18:B3:215:A:C5'	41:BV:58:ARG:HE	2.16	0.51
1:AA:1497:G:C6	1:AA:1519:A:C2	2.94	0.51
1:AA:498:U:O4	5:AD:20:GLU:OE1	2.27	0.51
1:AA:1505:G:C4'	1:AA:1506:U:O2	2.49	0.51
1:AA:121:C:C5	1:AA:235:C:N3	2.78	0.51
15:AO:114:LEU:CD1	15:AO:117:ILE:HD11	2.29	0.51
18:B3:2319:C:P	46:BZ:1:VAL:CG2	2.90	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:40:ARG:HG3	11:AK:41:VAL:N	2.26	0.51
21:BB:215:HIS:CG	21:BB:216:GLN:H	2.29	0.51
18:B3:375:G:C2	18:B3:411:A:OP1	2.61	0.51
20:BA:90:LEU:C	20:BA:90:LEU:HD23	2.29	0.51
7:AG:139:THR:CG2	7:AG:174:LEU:HD21	2.28	0.51
42:B0:110:ALA:O	42:B0:111:ARG:HB3	2.09	0.51
2:AT:693:LEU:HB3	2:AT:700:ARG:CD	2.38	0.51
18:B3:1810:C:C4	18:B3:2753:G:N3	2.78	0.51
5:AD:60:LEU:O	5:AD:60:LEU:HD23	2.10	0.51
2:AT:806:SER:HB2	2:AT:813:SER:HB2	1.91	0.51
18:B3:581:G:O2'	18:B3:582:C:H5'	2.11	0.51
5:AD:153:GLU:O	5:AD:153:GLU:HG3	2.10	0.51
18:B3:842:C:O2	18:B3:1693:A:H2'	2.11	0.51
2:AT:3:ALA:HA	2:AT:46:ILE:O	2.10	0.51
17:AS:86:VAL:HG23	17:AS:88:GLU:HG2	1.93	0.51
1:AA:1220:G:C5'	17:AS:59:LYS:HB2	2.32	0.51
18:B3:619:U:H5''	42:B0:41:VAL:HB	1.93	0.51
18:B3:2047:C:HO2'	18:B3:2841:A:C1'	2.24	0.51
33:BN:59:PHE:CE1	33:BN:79:LYS:CG	2.94	0.51
33:BN:98:ALA:O	33:BN:99:ALA:HB3	2.09	0.51
18:B3:1308:A:C2'	23:BD:204:PRO:CB	2.83	0.51
45:BY:25:SER:O	45:BY:34:SER:HB3	2.10	0.51
18:B3:1846:U:O3'	21:BB:180:LYS:CB	2.52	0.51
47:B9:28:LEU:H	47:B9:28:LEU:HD13	1.75	0.51
21:BB:171:GLY:C	47:B9:67:ALA:HB2	2.30	0.51
18:B3:1652:C:C5'	21:BB:174:VAL:HG13	2.31	0.51
21:BB:188:TYR:CD1	21:BB:195:TRP:HB2	2.45	0.51
18:B3:952:G:C5'	36:BQ:14:MET:CG	2.87	0.51
12:AL:142:LYS:HG3	12:AL:143:PRO:CD	2.41	0.51
44:BX:56:THR:HA	44:BX:59:ASN:O	2.10	0.51
1:AA:345:C:O2'	37:BR:135:VAL:N	2.44	0.51
18:B3:2502:C:H2'	18:B3:2503:A:H5'	1.93	0.51
18:B3:1742:A:O2'	18:B3:2722:G:O3'	2.28	0.51
22:BC:81:PRO:HG3	22:BC:204:VAL:HG13	1.92	0.51
37:BR:15:LEU:HB3	37:BR:52:ALA:O	2.10	0.51
26:BG:121:LYS:O	26:BG:121:LYS:HD2	2.10	0.51
26:BG:141:LEU:HD13	26:BG:147:ALA:HB2	1.88	0.51
31:BL:12:LYS:O	31:BL:13:LYS:HB3	2.11	0.51
31:BL:187:ARG:HD2	31:BL:188:LYS:N	2.25	0.51
31:BL:17:VAL:CA	31:BL:20:PHE:CE2	2.94	0.51
31:BL:18:LEU:CD1	31:BL:21:LEU:HD21	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:72:ARG:HD2	31:BL:88:VAL:O	2.10	0.51
18:B3:1707:G:C5'	18:B3:2735:U:OP1	2.42	0.51
1:AA:1240:U:N3	7:AG:189:ILE:HD12	1.64	0.51
18:B3:2336:G:H4'	29:BJ:101:PHE:CG	2.45	0.51
1:AA:364:A:OP2	12:AL:77:ILE:HG13	2.10	0.51
12:AL:94:ASN:HD22	12:AL:94:ASN:N	2.09	0.51
18:B3:1994:A:P	37:BR:71:LYS:HD2	2.50	0.51
32:BM:53:TYR:C	32:BM:58:ARG:HG3	2.31	0.51
18:B3:2552:C:HO2'	18:B3:2553:A:C2'	2.22	0.51
1:AA:1497:G:C4	1:AA:1519:A:C6	2.92	0.51
40:BU:39:LEU:HD12	40:BU:42:GLN:HE22	1.74	0.51
44:BX:4:VAL:HG23	44:BX:5:LYS:H	1.76	0.51
18:B3:2385:G:H22	36:BQ:69:LYS:HZ3	1.58	0.51
18:B3:522:U:OP2	42:B0:26:HIS:CE1	2.63	0.51
4:AC:116:ARG:HA	4:AC:119:TYR:CD2	2.37	0.51
1:AA:555:C:P	12:AL:38:PHE:CE2	3.03	0.51
23:BD:155:LEU:HD13	23:BD:155:LEU:C	2.31	0.51
42:B0:64:LYS:HG2	42:B0:65:PHE:HD1	1.75	0.51
30:BK:93:LYS:HD2	30:BK:96:LYS:CB	2.34	0.51
11:AK:111:ILE:CD1	11:AK:114:ILE:HD11	2.38	0.51
2:AT:433:ARG:HB3	2:AT:457:VAL:HG13	1.92	0.51
4:AC:133:CYS:N	4:AC:156:LEU:HD11	2.26	0.51
19:B4:64:C:C2'	19:B4:65:A:H5'	2.41	0.51
18:B3:834:G:H3'	18:B3:835:U:H4'	1.92	0.51
1:AA:1312:G:N7	17:AS:47:ARG:N	2.59	0.51
17:AS:76:VAL:HG12	17:AS:77:ARG:H	1.75	0.51
18:B3:538:C:H2'	42:B0:21:HIS:CA	2.37	0.51
1:AA:1179:A:H2'	1:AA:1180:A:O4'	2.10	0.51
36:BQ:25:VAL:CG2	36:BQ:30:TYR:CE2	2.93	0.51
36:BQ:79:MET:HE2	36:BQ:81:GLY:O	2.10	0.51
42:B0:117:ILE:HD13	42:B0:117:ILE:H	1.75	0.51
18:B3:450:C:P	23:BD:195:ASN:OD1	2.51	0.51
18:B3:676:C:O2	23:BD:231:SER:C	2.48	0.51
23:BD:84:SER:C	23:BD:97:ARG:HD3	2.31	0.51
18:B3:1898:G:N3	21:BB:223:THR:CG2	2.73	0.51
47:B9:48:ARG:CB	47:B9:54:TRP:CE3	2.94	0.51
21:BB:134:ILE:HG13	21:BB:148:ARG:CB	2.40	0.51
18:B3:1861:C:OP1	21:BB:230:SER:HA	2.10	0.51
18:B3:1262:C:O3'	25:BF:205:LYS:HD3	2.09	0.51
18:B3:1054:G:C5	28:BI:110:ARG:HD2	2.45	0.51
18:B3:1134:G:C1'	18:B3:1229:C:P	2.98	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2828:G:OP2	22:BC:129:PHE:HD1	1.94	0.51
22:BC:261:TRP:HB2	22:BC:263:VAL:H	1.76	0.51
22:BC:330:ASN:HD22	22:BC:330:ASN:N	2.06	0.51
28:BI:58:GLU:HB3	28:BI:129:VAL:O	2.10	0.51
28:BI:147:VAL:O	28:BI:150:GLU:HB2	2.09	0.51
28:BI:53:VAL:HG23	28:BI:53:VAL:O	2.10	0.51
37:BR:49:LEU:C	37:BR:49:LEU:HD13	2.31	0.51
31:BL:114:VAL:HG22	31:BL:115:LEU:C	2.31	0.51
31:BL:186:ARG:HD3	31:BL:187:ARG:CB	2.40	0.51
31:BL:34:VAL:N	31:BL:64:ARG:HD3	2.26	0.51
19:B4:44:A:H4'	29:BJ:140:ARG:HD2	1.90	0.51
29:BJ:156:GLU:HG3	29:BJ:157:ASP:N	2.25	0.51
20:BA:67:ILE:HG23	20:BA:67:ILE:O	2.09	0.51
39:BT:109:VAL:HG23	39:BT:123:VAL:HG22	1.93	0.51
18:B3:1508:C:O4'	39:BT:77:ASP:HB2	2.10	0.51
1:AA:860:A:C5'	3:AB:133:LYS:HZ1	2.23	0.51
3:AB:67:PRO:C	3:AB:183:LEU:HD23	2.31	0.51
1:AA:102:G:H1'	1:AA:151:A:C2'	2.35	0.51
18:B3:1042:U:O2'	18:B3:1043:C:H5'	2.10	0.51
18:B3:2597:U:H2'	18:B3:2598:U:H5'	1.91	0.51
18:B3:1993:C:O4'	37:BR:71:LYS:C	2.48	0.51
18:B3:2560:C:O2'	18:B3:2777:G:H1'	2.10	0.51
27:BH:112:ILE:CD1	27:BH:128:VAL:HG23	2.41	0.51
27:BH:76:ASP:N	27:BH:78:MET:HE3	2.18	0.51
27:BH:43:VAL:HG11	32:BM:126:LEU:HA	1.84	0.51
1:AA:678:U:H4'	11:AK:127:LYS:HA	1.89	0.51
35:BP:41:ARG:HH12	35:BP:43:LEU:HD21	1.75	0.51
43:BW:52:PRO:HB3	43:BW:55:ASN:ND2	2.24	0.51
43:BW:13:ILE:HD11	43:BW:67:GLU:O	2.10	0.51
40:BU:57:LEU:HA	40:BU:67:GLU:CB	2.39	0.51
5:AD:31:ALA:CB	5:AD:43:TYR:CE1	2.94	0.51
18:B3:1687:C:O2'	45:BY:8:GLY:HA2	1.96	0.51
41:BV:81:ILE:HG13	41:BV:95:LYS:HD2	1.89	0.51
1:AA:924:C:N1	1:AA:1398:A:N3	2.57	0.51
40:BU:16:ARG:C	40:BU:16:ARG:HD2	2.31	0.51
18:B3:2403:C:H2'	36:BQ:69:LYS:CE	2.40	0.51
18:B3:195:C:OP1	31:BL:178:LYS:C	2.49	0.51
18:B3:145:A:Cl'	31:BL:111:ASN:OD1	2.58	0.51
18:B3:2396:C:H1'	41:BV:46:LYS:HD3	1.91	0.51
10:AJ:64:LYS:NZ	10:AJ:83:GLU:HG3	2.25	0.51
15:AO:87:LEU:C	15:AO:87:LEU:HD13	2.30	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:101:ALA:HB1	4:AC:183:ILE:CG2	2.40	0.51
11:AK:117:VAL:O	11:AK:117:VAL:HG22	2.10	0.51
24:BE:84:PRO:HB3	24:BE:88:ILE:N	2.25	0.51
1:AA:1190:G:O2'	1:AA:1191:A:P	2.68	0.51
2:AT:576:LEU:HD13	2:AT:587:TYR:CE1	2.45	0.51
12:AL:55:GLU:CD	12:AL:57:LEU:HD21	2.31	0.51
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.45	0.51
3:AB:72:VAL:HG13	3:AB:72:VAL:O	2.08	0.51
18:B3:540:A:C4'	42:B0:17:PHE:HA	2.40	0.51
9:AI:97:ASP:CA	9:AI:104:LEU:H	2.24	0.51
10:AJ:27:THR:HB	10:AJ:88:LYS:HE2	1.93	0.51
24:BE:113:LEU:H	24:BE:113:LEU:CD1	2.24	0.51
24:BE:113:LEU:H	24:BE:113:LEU:HD13	1.75	0.51
24:BE:150:LEU:HD13	24:BE:150:LEU:C	2.30	0.51
19:B4:6:C:P	24:BE:28:THR:CA	2.98	0.51
36:BQ:45:ASN:O	36:BQ:48:ILE:HG23	2.11	0.51
36:BQ:74:VAL:O	36:BQ:89:LEU:HD23	2.11	0.51
1:AA:337:C:H2'	1:AA:338:A:C8	2.45	0.51
33:BN:111:LEU:HB3	33:BN:150:THR:CB	2.41	0.51
33:BN:117:GLN:O	33:BN:118:VAL:HB	2.10	0.51
33:BN:59:PHE:HZ	33:BN:81:ARG:CZ	2.24	0.51
18:B3:750:A:C1'	23:BD:116:GLU:CB	2.88	0.51
18:B3:1309:U:C3'	23:BD:203:GLY:CA	2.86	0.51
34:BO:109:GLY:O	34:BO:113:LYS:HG2	2.11	0.51
23:BD:72:ARG:O	23:BD:73:ILE:HD13	2.11	0.51
21:BB:162:ARG:HD2	21:BB:163:GLY:HA2	1.93	0.51
19:B4:87:U:H6	25:BF:217:ARG:NE	2.07	0.51
25:BF:98:PRO:O	25:BF:99:ARG:HB3	2.11	0.51
1:AA:190(C):C:N4	16:AQ:112:PRO:CD	2.67	0.51
1:AA:190(E):U:OP1	16:AQ:130:ILE:CG1	2.58	0.51
18:B3:1056:U:H6	28:BI:109:ASP:HB3	1.75	0.51
18:B3:2762:C:H1'	37:BR:83:LYS:CD	2.32	0.51
22:BC:113:VAL:CG1	22:BC:117:PHE:CG	2.94	0.51
22:BC:159:VAL:HG12	22:BC:180:ILE:HD12	1.92	0.51
22:BC:316:ILE:HD13	22:BC:320:PHE:CE1	2.45	0.51
28:BI:29:SER:HB3	28:BI:31:ILE:CG2	2.29	0.51
28:BI:52:LEU:HD12	28:BI:136:PHE:O	2.10	0.51
18:B3:2242:U:O2'	18:B3:2243:C:P	2.69	0.51
18:B3:2245:C:C4	18:B3:2246:U:C5	2.90	0.51
35:BP:69:LYS:O	35:BP:70:ARG:HB3	2.10	0.51
35:BP:80:ARG:HG3	35:BP:87:ARG:CZ	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2109:U:C5	41:BV:42:ILE:HD13	2.44	0.51
29:BJ:71:ARG:HH11	29:BJ:71:ARG:N	2.07	0.51
39:BT:87:MET:HA	39:BT:119:LYS:HG2	1.87	0.51
1:AA:401:C:O2'	1:AA:622:A:H8	1.93	0.51
3:AB:159:ILE:HD13	3:AB:172:ILE:HG21	1.91	0.51
41:BV:18:LYS:HE3	41:BV:19:GLY:O	2.10	0.51
18:B3:2578:G:N2	18:B3:2800:A:C2'	2.74	0.51
27:BH:78:MET:HE3	27:BH:79:ILE:HG13	1.92	0.51
18:B3:1103:C:O2'	32:BM:86:MET:O	2.29	0.51
11:AK:131:ARG:O	11:AK:132:ARG:HB3	2.10	0.51
18:B3:1501:A:P	35:BP:37:ARG:CD	2.99	0.51
43:BW:32:VAL:HG13	43:BW:33:LYS:N	2.25	0.51
46:BZ:67:VAL:H	46:BZ:84:LEU:HB3	1.75	0.51
18:B3:302:A:P	40:BU:28:ARG:NH2	2.64	0.51
40:BU:31:LEU:CG	40:BU:78:PHE:HB3	2.40	0.51
1:AA:436:C:C2	1:AA:496:A:O2'	2.62	0.51
40:BU:14:LYS:HG2	40:BU:17:LYS:HD3	1.92	0.51
4:AC:104:MET:SD	4:AC:121:VAL:HG21	2.50	0.51
4:AC:172:ARG:HB3	4:AC:183:ILE:CG2	2.40	0.51
8:AH:103:LEU:HD22	8:AH:124:ILE:CG2	2.34	0.51
19:B4:55:U:O2'	19:B4:56:A:OP2	2.26	0.51
30:BK:93:LYS:HZ2	30:BK:96:LYS:HD3	1.75	0.51
1:AA:1366:C:C2	1:AA:1367:C:C5	2.99	0.51
29:BJ:150:SER:O	29:BJ:152:LYS:HD3	2.11	0.51
40:BU:95:VAL:HG23	40:BU:95:VAL:O	2.10	0.51
1:AA:1296:C:H4'	13:AM:54:LEU:HD12	1.93	0.51
1:AA:1315:U:O4	17:AS:49:MET:CE	2.59	0.51
18:B3:542:A:OP1	42:B0:14:THR:HA	2.11	0.51
18:B3:618:G:C1'	42:B0:41:VAL:HG22	2.40	0.51
9:AI:100:SER:N	9:AI:105:LYS:N	2.58	0.51
9:AI:111:TYR:HB3	9:AI:114:THR:HB	1.93	0.51
24:BE:164:LYS:HD2	24:BE:198:TYR:OH	2.11	0.51
24:BE:165:GLY:O	24:BE:166:ALA:HB3	2.11	0.51
24:BE:18:THR:CG2	24:BE:20:PHE:CD2	2.94	0.51
36:BQ:55:LYS:N	36:BQ:55:LYS:HD3	2.26	0.51
36:BQ:77:ASN:OD1	36:BQ:87:LYS:HG2	2.10	0.51
33:BN:25:PHE:CE2	33:BN:118:VAL:CG2	2.93	0.51
42:B0:85:LEU:HG	42:B0:117:ILE:HG21	1.92	0.51
23:BD:40:SER:O	23:BD:110:VAL:HG11	2.11	0.51
30:BK:32:ILE:HG13	30:BK:33:GLY:N	2.24	0.51
47:B9:53:ILE:HD13	47:B9:54:TRP:H	1.73	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:97:U:O2	25:BF:220:LYS:HD3	1.57	0.51
25:BF:97:LYS:HD3	25:BF:97:LYS:C	2.31	0.51
12:AL:142:LYS:N	12:AL:143:PRO:HD2	2.26	0.51
18:B3:1134:G:OP2	18:B3:1229:C:C5	2.53	0.51
18:B3:2093:G:O2'	22:BC:253:ALA:HA	1.97	0.51
18:B3:2501:G:N2	28:BI:157:TYR:CE1	2.78	0.51
18:B3:2766:A:O2'	18:B3:2767:C:H5'	2.11	0.51
22:BC:344:ASN:ND2	22:BC:345:THR:H	2.09	0.51
26:BG:164:PHE:HB2	26:BG:168:LEU:HD12	1.93	0.51
31:BL:140:ALA:HA	31:BL:143:ARG:HG3	1.92	0.51
31:BL:164:THR:O	31:BL:169:LYS:HB2	2.10	0.51
31:BL:183:LYS:O	31:BL:183:LYS:HG3	2.10	0.51
31:BL:191:LYS:O	31:BL:192:ARG:HB2	2.10	0.51
18:B3:1800:G:H5''	35:BP:87:ARG:HB3	1.92	0.51
18:B3:1805:G:C4	18:B3:2883:A:N1	2.78	0.51
35:BP:95:ILE:HD13	35:BP:95:ILE:N	2.24	0.51
39:BT:104:VAL:CG2	39:BT:129:TYR:CG	2.94	0.51
39:BT:71:ALA:CB	39:BT:81:LEU:HD21	2.41	0.51
4:AC:20:LEU:HD11	4:AC:83:ILE:CD1	2.41	0.51
21:BB:218:ILE:HD13	21:BB:219:GLY:O	2.11	0.51
1:AA:560:U:O2'	1:AA:561:U:OP2	2.29	0.51
1:AA:824:C:H2'	1:AA:825:G:H8	1.76	0.51
3:AB:121:ILE:C	3:AB:121:ILE:HD13	2.30	0.51
3:AB:138:VAL:O	3:AB:138:VAL:HG22	2.09	0.51
1:AA:552:U:OP1	12:AL:108:GLY:N	2.44	0.51
1:AA:65:U:OP1	1:AA:96:G:C3'	2.34	0.51
1:AA:65:U:OP1	1:AA:97:G:P	2.69	0.51
2:AT:107:GLY:O	2:AT:109:VAL:N	2.44	0.51
18:B3:1118:A:C8	18:B3:1118:A:C3'	2.92	0.51
18:B3:1226:G:OP1	18:B3:1246:A:C6	2.64	0.51
27:BH:13:PRO:HD2	27:BH:16:VAL:HG21	1.91	0.51
27:BH:170:LYS:CD	27:BH:170:LYS:H	2.12	0.51
32:BM:128:LEU:N	32:BM:128:LEU:HD22	2.25	0.51
1:AA:1494:G:O2'	1:AA:1495:U:H5'	2.10	0.51
40:BU:63:LYS:HZ1	40:BU:97:ILE:HD11	1.74	0.51
40:BU:72:SER:HB3	40:BU:81:GLN:N	2.13	0.51
11:AK:42:THR:HG21	11:AK:52:ASP:C	2.31	0.51
6:AE:96:ARG:HE	6:AE:116:THR:HG22	1.75	0.51
20:BA:42:ASP:OD2	20:BA:45:ARG:HG2	2.10	0.51
5:AD:60:LEU:HD23	5:AD:64:GLU:CG	2.41	0.51
11:AK:32:LEU:HD23	11:AK:32:LEU:N	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:70:ASP:O	20:BA:74:VAL:HG23	2.11	0.51
18:B3:255:A:H2'	18:B3:256:C:H6	1.73	0.51
19:B4:103:A:O2'	19:B4:104:A:H5'	2.10	0.51
1:AA:1001:A:H2'	1:AA:1002:G:H8	1.76	0.51
4:AC:33:TYR:CE1	4:AC:35:GLY:CA	2.94	0.51
1:AA:1221:G:H1'	17:AS:102:PHE:HB3	1.92	0.51
18:B3:777:U:C2	45:BY:12:ASN:ND2	2.79	0.51
42:B0:18:LYS:O	42:B0:32:TRP:HD1	1.92	0.51
9:AI:98:GLU:CA	9:AI:105:LYS:CA	2.89	0.51
9:AI:98:GLU:O	9:AI:98:GLU:HG2	2.11	0.51
10:AJ:41:ILE:HD12	10:AJ:41:ILE:N	2.26	0.51
24:BE:143:LYS:O	24:BE:144:VAL:HG23	2.11	0.51
36:BQ:32:LYS:HZ2	36:BQ:97:LYS:HE2	1.75	0.51
36:BQ:33:VAL:HG12	36:BQ:34:TYR:N	2.26	0.51
1:AA:318:G:N3	1:AA:1433:A:N1	2.59	0.51
33:BN:28:THR:HG23	33:BN:29:ARG:N	2.25	0.51
33:BN:90:VAL:HG13	33:BN:93:LEU:CD2	2.40	0.51
42:B0:82:LEU:HD12	42:B0:82:LEU:C	2.32	0.51
18:B3:709:G:H1'	34:BO:139:ILE:HD11	1.92	0.51
23:BD:133:LEU:O	23:BD:133:LEU:HG	2.11	0.51
23:BD:148:PRO:CD	23:BD:149:LEU:H	2.23	0.51
18:B3:1308:A:C6	23:BD:201:ARG:NH2	2.79	0.51
18:B3:471:G:H5'	45:BY:15:HIS:CD2	2.46	0.51
18:B3:53:C:O4'	18:B3:121:U:O2'	2.28	0.51
18:B3:1206:C:H3'	18:B3:1207:A:C8	2.45	0.51
18:B3:2526:C:C1'	18:B3:2604:A:O3'	2.59	0.51
44:BX:41:LEU:HD22	44:BX:43:LYS:HG3	1.92	0.51
18:B3:67:A:H4'	44:BX:55:LEU:HD22	1.86	0.51
22:BC:104:VAL:HG23	22:BC:105:TRP:N	2.24	0.51
22:BC:118:TYR:HD2	22:BC:133:SER:H	1.56	0.51
22:BC:163:THR:N	22:BC:177:LEU:HG	2.26	0.51
22:BC:304:ILE:HG12	22:BC:358:ILE:CG1	2.16	0.51
28:BI:64:ALA:O	28:BI:68:ALA:HB3	2.11	0.51
37:BR:9:THR:HG23	37:BR:11:PHE:N	2.10	0.51
18:B3:264:G:H1	26:BG:137:HIS:HD2	1.55	0.51
26:BG:150:VAL:HB	26:BG:198:ALA:HB3	1.90	0.51
35:BP:119:TYR:CG	35:BP:120:HIS:N	2.78	0.51
35:BP:81:LYS:NZ	35:BP:81:LYS:H	2.09	0.51
29:BJ:137:VAL:HG12	29:BJ:144:LYS:O	2.11	0.51
29:BJ:140:ARG:HB3	29:BJ:142:ARG:NE	2.26	0.51
18:B3:2170:G:OP2	20:BA:26:ARG:CB	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2165:G:H2'	20:BA:33:GLU:HG3	1.90	0.51
20:BA:48:ARG:HD3	20:BA:161:LYS:HA	1.91	0.51
14:AN:27:THR:HG22	14:AN:38:CYS:SG	2.51	0.51
1:AA:560:U:C2	1:AA:563:A:H5'	2.44	0.51
3:AB:60:ALA:O	3:AB:63:ILE:HB	2.10	0.51
12:AL:102:VAL:CG2	12:AL:133:LEU:HD11	2.41	0.51
12:AL:74:VAL:HG23	12:AL:83:VAL:CG2	2.41	0.51
37:BR:62:VAL:HG21	37:BR:69:LEU:C	2.31	0.51
18:B3:2561:C:H5'	18:B3:2777:G:HO2'	1.73	0.51
18:B3:2564:G:OP2	18:B3:2565:C:H5''	2.11	0.51
27:BH:162:GLN:HA	27:BH:179:ILE:O	2.10	0.51
27:BH:23:ARG:NH1	27:BH:37:ASN:HD21	2.08	0.51
1:AA:676:A:C3'	11:AK:120:VAL:HA	2.41	0.51
18:B3:2457:U:H1'	46:BZ:81:GLN:CG	2.37	0.51
46:BZ:65:LYS:C	46:BZ:66:LYS:HE2	2.30	0.51
18:B3:2459:G:C4'	46:BZ:66:LYS:HE3	2.33	0.51
18:B3:99:A:H1'	40:BU:75:ARG:HH12	1.68	0.51
40:BU:107:THR:O	40:BU:107:THR:HG23	2.11	0.51
1:AA:919:A:C1'	1:AA:1079:G:N2	2.68	0.51
1:AA:21:G:O3'	1:AA:885:G:P	2.67	0.51
15:AO:114:LEU:HD12	15:AO:117:ILE:CD1	2.30	0.51
18:B3:2433:A:O3'	46:BZ:35:PHE:HB3	2.11	0.51
11:AK:42:THR:HG21	11:AK:52:ASP:CA	2.41	0.51
1:AA:55:A:H2	2:AT:68:ILE:CA	2.24	0.51
18:B3:2365:G:O2'	36:BQ:49:GLN:NE2	2.41	0.51
1:AA:1111:A:N6	4:AC:161:GLN:NE2	2.58	0.51
42:B0:111:ARG:HE	42:B0:113:LYS:HD2	1.76	0.51
30:BK:116:MET:HE2	30:BK:119:LYS:HB3	1.93	0.51
18:B3:604:G:H4'	18:B3:605:C:O5'	2.11	0.51
2:AT:414:GLN:HB3	2:AT:418:TYR:CD2	2.46	0.51
4:AC:134:GLU:HB3	4:AC:156:LEU:CD2	2.41	0.51
1:AA:1020:U:H2'	1:AA:1021:G:H8	1.76	0.51
1:AA:605:U:O2'	1:AA:606:G:H5'	2.11	0.51
1:AA:373:A:O2'	1:AA:374:A:H5'	2.10	0.51
18:B3:1008:C:H2'	18:B3:1009:U:C6	2.46	0.51
1:AA:989:C:OP2	1:AA:1015:A:N6	2.44	0.51
1:AA:1309:G:H22	13:AM:96:LYS:CB	2.23	0.51
13:AM:126:ARG:NH1	13:AM:131:LEU:HD12	2.26	0.51
13:AM:129:TRP:CZ3	17:AS:121:ILE:CB	2.94	0.51
1:AA:1220:G:C2'	17:AS:96:ILE:HA	2.41	0.51
18:B3:538:C:O2'	42:B0:21:HIS:CA	2.47	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:30:VAL:HA	9:AI:66:VAL:CG1	2.41	0.51
24:BE:151:GLN:NE2	24:BE:159:VAL:HG22	2.26	0.51
18:B3:2424:U:H4'	36:BQ:7:TYR:CD2	2.45	0.51
36:BQ:92:ARG:HG3	36:BQ:93:VAL:H	1.76	0.51
18:B3:501:G:C3'	33:BN:15:SER:H	2.22	0.51
33:BN:59:PHE:CZ	33:BN:81:ARG:CZ	2.94	0.51
34:BO:44:PHE:HE1	34:BO:139:ILE:CG1	2.24	0.51
18:B3:772:G:H21	45:BY:46:TYR:HE2	1.58	0.51
30:BK:18:VAL:O	30:BK:21:GLU:HG2	2.11	0.51
16:AQ:110:VAL:HG23	16:AQ:115:ARG:HB3	1.92	0.51
12:AL:142:LYS:HD2	12:AL:143:PRO:HD3	1.92	0.51
1:AA:163:C:O2'	1:AA:164:U:H5'	2.10	0.51
18:B3:2828:G:O5'	22:BC:129:PHE:HD1	1.92	0.51
18:B3:2897:C:H5''	22:BC:312:HIS:CD2	2.45	0.51
18:B3:2822:C:C4'	22:BC:133:SER:OG	2.59	0.51
22:BC:101:LEU:HD13	22:BC:145:ARG:HD3	1.93	0.51
22:BC:226:GLU:N	22:BC:269:ARG:HE	2.09	0.51
22:BC:49:LYS:CG	22:BC:332:LYS:CA	2.89	0.51
22:BC:330:ASN:HB2	22:BC:334:ILE:HG21	1.93	0.51
37:BR:15:LEU:HD12	37:BR:52:ALA:O	2.11	0.51
18:B3:1743:G:N2	37:BR:18:PRO:HG2	2.26	0.51
37:BR:54:LEU:HG	37:BR:85:TRP:CZ2	2.46	0.51
26:BG:113:ALA:HB3	26:BG:122:GLN:HG3	1.93	0.51
26:BG:130:ALA:HB2	26:BG:202:VAL:HB	1.93	0.51
26:BG:210:LEU:C	26:BG:210:LEU:HD13	2.30	0.51
35:BP:141:ILE:O	35:BP:142:ILE:HB	2.11	0.51
38:BS:51:TRP:CZ3	38:BS:56:ARG:CD	2.94	0.51
18:B3:925:C:C4'	41:BV:28:PRO:HG2	2.23	0.51
18:B3:2337:G:O2'	29:BJ:126:PHE:HB3	2.11	0.51
18:B3:2345:A:N3	29:BJ:23:GLY:CA	2.49	0.51
29:BJ:155:LYS:N	29:BJ:155:LYS:HD2	2.25	0.51
29:BJ:17:VAL:HB	29:BJ:69:THR:CA	2.31	0.51
29:BJ:34:LYS:CD	29:BJ:35:VAL:H	2.24	0.51
29:BJ:71:ARG:NH2	29:BJ:72:GLY:HA2	2.25	0.51
20:BA:67:ILE:HD11	20:BA:73:ASP:CG	2.31	0.51
39:BT:102:TYR:CD2	39:BT:104:VAL:CG2	2.94	0.51
39:BT:71:ALA:HB1	39:BT:81:LEU:HD21	1.93	0.51
39:BT:81:LEU:O	39:BT:82:VAL:HG13	2.11	0.51
10:AJ:71:PRO:HD2	14:AN:42:PHE:CA	2.41	0.51
10:AJ:72:ASN:ND2	14:AN:28:GLY:H	2.01	0.51
2:AT:464:LEU:HD13	2:AT:510:ARG:CG	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:146:LEU:HG	27:BH:158:ALA:HB2	1.93	0.51
27:BH:34:LEU:HD11	27:BH:150:SER:N	2.26	0.51
27:BH:170:LYS:N	27:BH:170:LYS:HD3	2.10	0.51
32:BM:123:LEU:HD22	32:BM:125:VAL:H	1.76	0.51
32:BM:35:VAL:CG1	32:BM:110:PRO:HD2	2.41	0.51
1:AA:676:A:H3'	11:AK:121:PRO:HD3	1.89	0.51
1:AA:405:U:C4	5:AD:27:GLU:N	2.73	0.51
18:B3:145:A:H1'	31:BL:111:ASN:OD1	2.11	0.51
21:BB:4:ILE:HG12	21:BB:208:HIS:HA	1.93	0.51
18:B3:289:G:N1	18:B3:363:A:C2	2.77	0.51
1:AA:105:G:N3	1:AA:379:C:O2'	2.39	0.51
37:BR:109:MET:HE1	37:BR:128:ARG:O	2.11	0.51
31:BL:30:ARG:O	31:BL:31:GLN:HG2	2.11	0.51
26:BG:182:LYS:HD3	26:BG:182:LYS:H	1.76	0.51
24:BE:133:GLU:CG	24:BE:134:ALA:H	2.23	0.51
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.11	0.51
18:B3:2791:U:H1'	18:B3:2792:A:H5''	1.92	0.51
6:AE:110:VAL:HG23	6:AE:136:ILE:HG22	1.93	0.51
24:BE:216:GLU:HG2	24:BE:217:GLU:N	2.26	0.51
24:BE:85:ARG:HH22	24:BE:232:ASP:HB2	1.76	0.51
29:BJ:107:GLU:HG2	29:BJ:108:HIS:N	2.25	0.51
13:AM:78:HIS:HB3	13:AM:85:PHE:CE1	2.46	0.50
13:AM:88:ARG:NH2	13:AM:111:ASP:CB	2.75	0.50
18:B3:778:C:H5''	45:BY:9:LYS:CE	2.34	0.50
1:AA:1177:G:C4	9:AI:106:LYS:CG	2.73	0.50
9:AI:101:LYS:C	9:AI:105:LYS:HG3	2.31	0.50
1:AA:1162:C:O2	9:AI:108:PHE:CE2	2.64	0.50
9:AI:98:GLU:C	9:AI:99:GLN:HG3	2.31	0.50
24:BE:110:LEU:CD2	24:BE:171:LEU:HB3	2.41	0.50
19:B4:8:G:C6	24:BE:21:ARG:CD	2.94	0.50
36:BQ:43:LYS:HB2	36:BQ:43:LYS:NZ	2.26	0.50
33:BN:10:PRO:O	33:BN:11:ALA:HB2	2.12	0.50
18:B3:2050:G:O5'	33:BN:83:PRO:HA	2.11	0.50
42:B0:100:ILE:HG13	42:B0:106:VAL:CG2	2.41	0.50
18:B3:1306:U:OP1	23:BD:196:ARG:NH2	2.44	0.50
18:B3:111:C:C4'	18:B3:118:G:O6	2.57	0.50
30:BK:65:GLN:OE1	30:BK:65:GLN:HA	2.11	0.50
47:B9:28:LEU:H	47:B9:28:LEU:CD1	2.24	0.50
21:BB:134:ILE:HD11	21:BB:148:ARG:HG3	1.93	0.50
21:BB:111:ILE:HD13	21:BB:134:ILE:HG22	1.92	0.50
21:BB:53:ARG:CZ	21:BB:54:GLY:HA2	2.40	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1066:U:H2'	18:B3:1067:A:C8	2.45	0.50
25:BF:122:THR:O	25:BF:123:LEU:HB3	2.11	0.50
1:AA:190(E):U:OP2	16:AQ:137:ASN:CB	2.57	0.50
18:B3:91:G:H1'	44:BX:40:SER:O	2.11	0.50
44:BX:31:LEU:HD13	44:BX:44:ILE:CB	2.38	0.50
44:BX:17:LEU:CD2	44:BX:54:VAL:HG22	2.40	0.50
18:B3:2308:U:H2'	28:BI:116:ARG:HB2	1.91	0.50
22:BC:105:TRP:CD1	22:BC:106:ALA:N	2.79	0.50
22:BC:228:VAL:CB	22:BC:232:TRP:HZ2	2.23	0.50
18:B3:2546:U:O2'	22:BC:235:LYS:HE2	2.10	0.50
22:BC:302:LYS:HG3	22:BC:320:PHE:HZ	1.75	0.50
22:BC:75:VAL:HG21	22:BC:326:CYS:SG	2.51	0.50
28:BI:112:GLN:HG3	28:BI:118:ALA:O	2.10	0.50
28:BI:27:PRO:CG	28:BI:124:GLY:H	2.24	0.50
28:BI:52:LEU:CB	28:BI:136:PHE:H	2.24	0.50
37:BR:54:LEU:CG	37:BR:85:TRP:CZ2	2.94	0.50
31:BL:13:LYS:HZ1	31:BL:21:LEU:HD11	1.76	0.50
35:BP:94:TRP:CZ2	35:BP:95:ILE:CG2	2.94	0.50
29:BJ:91:ARG:HG2	29:BJ:159:VAL:HG23	1.93	0.50
29:BJ:37:GLU:O	29:BJ:38:GLN:HB2	2.11	0.50
20:BA:36:VAL:HG13	20:BA:204:LEU:CD1	2.32	0.50
10:AJ:78:THR:O	14:AN:39:ARG:HD3	2.12	0.50
3:AB:121:ILE:CD1	3:AB:173:TRP:HE1	2.24	0.50
8:AH:52:ILE:HD13	8:AH:61:VAL:HG22	1.92	0.50
8:AH:8:ASP:OD2	8:AH:27:ARG:HD3	2.11	0.50
1:AA:552:U:H5''	12:AL:107:PHE:N	2.14	0.50
18:B3:2597:U:P	37:BR:74:MET:SD	3.09	0.50
27:BH:69:ARG:NH1	27:BH:69:ARG:HB3	2.26	0.50
27:BH:90:MET:HB2	27:BH:182:SER:H	1.77	0.50
27:BH:99:ILE:HG23	27:BH:99:ILE:O	2.10	0.50
32:BM:128:LEU:HD12	32:BM:131:GLY:HA3	1.93	0.50
46:BZ:66:LYS:NZ	46:BZ:86:ARG:HD2	2.25	0.50
1:AA:791:G:H2'	1:AA:792:A:H5'	1.93	0.50
18:B3:78:G:O3'	40:BU:27:ARG:NH2	2.45	0.50
6:AE:163:SER:HB2	6:AE:202:LYS:HE2	1.92	0.50
41:BV:9:LYS:O	41:BV:13:HIS:HE1	1.94	0.50
18:B3:700:A:OP2	41:BV:115:GLY:C	2.49	0.50
41:BV:70:PRO:HB2	41:BV:101:ILE:HG21	1.93	0.50
18:B3:1235:G:N1	32:BM:69:PRO:HD2	2.24	0.50
1:AA:668:G:C1'	15:AO:104:ASN:CG	2.72	0.50
18:B3:113:A:H4'	45:BY:41:ALA:HB1	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:17:ARG:O	11:AK:27:VAL:HG23	2.11	0.50
3:AB:106:PHE:HB2	3:AB:134:GLU:HB3	1.93	0.50
32:BM:98:LEU:HD23	32:BM:99:GLU:OE2	2.10	0.50
7:AG:201:ALA:O	7:AG:202:LYS:HB3	2.11	0.50
4:AC:51:ALA:C	4:AC:90:VAL:HG23	2.31	0.50
4:AC:161:GLN:HE21	4:AC:162:PRO:HD2	1.75	0.50
17:AS:64:LYS:HD2	17:AS:65:LEU:CD1	2.33	0.50
1:AA:1350:A:H2	7:AG:103:ASN:C	2.13	0.50
20:BA:100:ILE:HG23	20:BA:101:LYS:N	2.26	0.50
27:BH:138:THR:HG22	27:BH:142:ASP:OD1	2.12	0.50
8:AH:92:LEU:N	8:AH:92:LEU:HD12	2.25	0.50
1:AA:1165:C:O2'	1:AA:1166:G:H5'	2.11	0.50
17:AS:73:PRO:O	17:AS:74:ALA:HB3	2.11	0.50
18:B3:737:A:H2'	18:B3:738:G:O4'	2.10	0.50
1:AA:956:U:C4'	17:AS:126:VAL:HG11	2.40	0.50
1:AA:1178:G:C6	9:AI:111:TYR:CD1	2.99	0.50
1:AA:1250:A:C4'	9:AI:71:GLY:HA2	2.16	0.50
10:AJ:49:ASN:CG	10:AJ:99:ILE:HG12	2.32	0.50
24:BE:116:ASP:CG	24:BE:143:LYS:H	2.14	0.50
18:B3:2841:A:H2	33:BN:68:ARG:HB3	1.75	0.50
33:BN:123:LYS:HD2	33:BN:123:LYS:N	2.26	0.50
33:BN:25:PHE:CZ	33:BN:118:VAL:CG2	2.95	0.50
33:BN:96:ASN:O	33:BN:97:ALA:HB3	2.11	0.50
18:B3:1342:C:C2'	18:B3:1343:C:H5'	2.41	0.50
18:B3:1352:A:O4'	23:BD:50:ALA:CA	2.59	0.50
18:B3:28:G:C5	18:B3:1318:A:C2	2.67	0.50
18:B3:29:C:H4'	18:B3:1341:A:O3'	2.12	0.50
18:B3:676:C:C2	23:BD:231:SER:HA	2.46	0.50
23:BD:159:GLN:C	23:BD:217:ALA:HB2	2.31	0.50
34:BO:59:ARG:HD2	34:BO:60:PRO:HD3	1.92	0.50
23:BD:64:TRP:HZ3	23:BD:68:ARG:N	2.09	0.50
21:BB:128:ALA:O	21:BB:168:ILE:HG21	2.12	0.50
21:BB:189:ARG:NE	21:BB:189:ARG:HA	2.24	0.50
21:BB:190:LEU:HD23	21:BB:191:LYS:H	1.76	0.50
21:BB:191:LYS:NZ	21:BB:191:LYS:HB2	2.26	0.50
21:BB:59:LYS:HG2	21:BB:71:ARG:O	2.12	0.50
21:BB:67:LYS:HB3	21:BB:72:GLU:H	1.76	0.50
25:BF:83:VAL:HG23	25:BF:136:GLY:N	2.20	0.50
1:AA:255:G:C4'	16:AQ:80:HIS:CB	2.89	0.50
18:B3:487:G:OP2	40:BU:90:VAL:HA	2.11	0.50
44:BX:48:ARG:NH1	44:BX:49:LYS:HB3	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:51:ILE:C	44:BX:51:ILE:HD13	2.31	0.50
22:BC:185:GLY:N	22:BC:190:LYS:HG3	2.25	0.50
22:BC:231:ARG:CG	22:BC:232:TRP:CZ3	2.95	0.50
22:BC:282:TYR:HE2	22:BC:324:LYS:HG3	1.76	0.50
28:BI:49:CYS:HA	28:BI:139:ARG:HE	1.75	0.50
18:B3:2337:G:C2	29:BJ:127:TYR:CD2	2.99	0.50
18:B3:2334:C:H2'	29:BJ:116:ASP:OD2	2.10	0.50
18:B3:2168:G:N1	18:B3:2169:C:C4	2.79	0.50
20:BA:54:LYS:HG3	20:BA:156:LYS:HB3	0.52	0.50
10:AJ:72:ASN:CG	14:AN:28:GLY:H	2.15	0.50
3:AB:138:VAL:CG1	3:AB:140:ILE:HG13	2.39	0.50
12:AL:135:LEU:HG	12:AL:136:TRP:O	2.11	0.50
1:AA:101:A:H2'	1:AA:102:G:H8	1.77	0.50
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.46	0.50
18:B3:2580:G:H5''	18:B3:2680:A:H61	1.76	0.50
32:BM:23:ALA:O	32:BM:24:LYS:HG2	2.11	0.50
32:BM:43:SER:HA	32:BM:134:TYR:CD1	2.46	0.50
1:AA:1499:A:C5'	1:AA:1520:G:HO2'	2.22	0.50
40:BU:43:TYR:CE2	40:BU:45:ILE:CG2	2.95	0.50
18:B3:905:C:C5'	41:BV:11:ARG:HD2	2.22	0.50
41:BV:69:LYS:CE	41:BV:69:LYS:H	2.23	0.50
41:BV:98:ALA:HB1	41:BV:99:PRO:CD	2.39	0.50
1:AA:598:U:H4'	8:AH:88:TRP:CE2	2.46	0.50
4:AC:105:LYS:HD2	4:AC:183:ILE:CB	2.41	0.50
20:BA:134:PHE:CD1	20:BA:135:PRO:HD2	2.46	0.50
29:BJ:133:PRO:HD2	29:BJ:135:ALA:CB	2.33	0.50
1:AA:1286:A:C8	1:AA:1287:A:H4'	2.46	0.50
30:BK:93:LYS:CD	30:BK:96:LYS:HD3	2.40	0.50
1:AA:1350:A:C2	7:AG:103:ASN:C	2.84	0.50
12:AL:132:LEU:HD22	12:AL:132:LEU:N	2.26	0.50
18:B3:612:U:H2'	18:B3:613:C:C6	2.45	0.50
32:BM:59:LYS:HD3	32:BM:59:LYS:O	2.12	0.50
18:B3:1909:A:N1	18:B3:2128:G:H1'	2.26	0.50
22:BC:29:LYS:H	22:BC:29:LYS:HD3	1.75	0.50
19:B4:114:G:H2'	19:B4:115:C:C6	2.46	0.50
20:BA:91:LYS:HD3	20:BA:91:LYS:N	2.26	0.50
1:AA:1309:G:H8	13:AM:92:ILE:HD12	1.72	0.50
1:AA:1329:A:H5''	13:AM:98:TYR:CE2	2.38	0.50
1:AA:1309:G:N2	13:AM:96:LYS:HE3	2.26	0.50
1:AA:958:A:C8	17:AS:101:ALA:HB1	2.45	0.50
1:AA:1316:G:O6	17:AS:49:MET:HB3	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1162:C:O2	9:AI:108:PHE:CZ	2.65	0.50
9:AI:49:GLU:N	9:AI:50:PRO:HD2	2.26	0.50
1:AA:1151:A:O4'	10:AJ:60:THR:N	2.40	0.50
10:AJ:97:VAL:HG13	10:AJ:98:GLN:H	1.76	0.50
19:B4:119:C:CI'	24:BE:72:ASP:N	2.75	0.50
24:BE:208:MET:HB2	24:BE:211:LEU:HB3	1.92	0.50
24:BE:49:TYR:O	24:BE:50:ARG:HG3	2.11	0.50
36:BQ:48:ILE:H	36:BQ:48:ILE:CD1	2.24	0.50
36:BQ:72:VAL:HG12	36:BQ:91:LEU:HD12	1.91	0.50
36:BQ:97:LYS:HE3	36:BQ:98:HIS:NE2	2.26	0.50
33:BN:13:SER:HB2	33:BN:149:VAL:HB	1.89	0.50
33:BN:25:PHE:CZ	33:BN:28:THR:HG21	2.45	0.50
33:BN:93:LEU:O	33:BN:93:LEU:HD12	2.10	0.50
42:B0:89:THR:O	42:B0:90:LYS:HG2	2.12	0.50
18:B3:26:U:C1'	18:B3:1319:G:C2'	2.80	0.50
23:BD:112:VAL:HG11	23:BD:117:LYS:HE3	1.92	0.50
34:BO:62:VAL:HG21	34:BO:87:VAL:HB	1.92	0.50
34:BO:82:VAL:HG22	34:BO:83:VAL:N	2.25	0.50
30:BK:83:THR:HG23	30:BK:84:ALA:N	2.26	0.50
18:B3:1184:A:O2'	30:BK:86:LYS:HB3	2.11	0.50
18:B3:1654:U:H2'	21:BB:49:HIS:ND1	2.26	0.50
18:B3:1875:A:N3	21:BB:151:SER:CB	2.71	0.50
18:B3:1459:A:C5'	21:BB:20:ARG:HD3	2.41	0.50
21:BB:6:ASN:N	21:BB:8:ARG:HH21	2.09	0.50
18:B3:1067:A:C5'	25:BF:96:PRO:HG2	2.40	0.50
18:B3:946:C:H5'	25:BF:124:GLU:CG	2.40	0.50
25:BF:117:LYS:HE2	25:BF:118:VAL:HG12	1.93	0.50
18:B3:1285:U:C4'	25:BF:155:ILE:HG12	2.30	0.50
25:BF:169:GLU:HG3	25:BF:169:GLU:O	2.10	0.50
25:BF:171:ASN:ND2	25:BF:171:ASN:H	2.10	0.50
22:BC:156:VAL:HG11	22:BC:181:GLN:NE2	2.27	0.50
22:BC:115:ARG:HG3	22:BC:173:LYS:HD2	1.94	0.50
22:BC:237:LEU:HD22	22:BC:237:LEU:N	2.27	0.50
22:BC:210:GLN:NE2	22:BC:352:GLU:HG2	2.26	0.50
28:BI:66:GLU:HG2	28:BI:66:GLU:O	2.10	0.50
28:BI:70:ILE:HD12	28:BI:70:ILE:C	2.32	0.50
37:BR:10:LYS:NZ	37:BR:10:LYS:HB2	2.26	0.50
37:BR:54:LEU:CB	37:BR:85:TRP:CZ2	2.95	0.50
26:BG:161:LEU:CD1	31:BL:3:TYR:OH	2.59	0.50
18:B3:1593:C:P	35:BP:116:LYS:O	2.69	0.50
18:B3:1814:G:C4'	18:B3:2733:U:C6	2.84	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2890:A:H1'	38:BS:50:ALA:HA	1.93	0.50
18:B3:921:G:H3'	41:BV:40:HIS:CB	2.41	0.50
18:B3:2165:G:H2'	20:BA:207:LYS:CE	2.39	0.50
18:B3:2214:A:H1'	20:BA:103:LEU:HD12	1.94	0.50
1:AA:402:G:C8	1:AA:621:A:C4	2.93	0.50
3:AB:141:PRO:N	8:AH:68:LEU:CD1	2.53	0.50
3:AB:145:LEU:HD13	3:AB:159:ILE:CG2	2.41	0.50
1:AA:520:A:C4'	12:AL:90:ASP:CG	2.77	0.50
1:AA:553:A:OP1	12:AL:40:SER:OG	2.27	0.50
37:BR:67:PRO:HG2	37:BR:69:LEU:HB2	1.94	0.50
27:BH:173:ARG:HB2	27:BH:173:ARG:HH11	1.74	0.50
32:BM:16:GLY:HA3	32:BM:17:ARG:NH2	2.27	0.50
18:B3:1382:G:O2'	43:BW:29:PRO:HG2	2.12	0.50
35:BP:24:ASP:HB3	35:BP:25:PRO:CA	2.41	0.50
35:BP:9:LEU:HD12	35:BP:37:ARG:NE	2.19	0.50
43:BW:55:ASN:HD21	43:BW:56:GLN:CD	2.14	0.50
40:BU:57:LEU:HD11	40:BU:105:VAL:HB	1.93	0.50
41:BV:118:PRO:HB2	41:BV:121:PRO:HA	1.92	0.50
41:BV:82:PRO:HD3	41:BV:120:VAL:CG2	2.41	0.50
41:BV:95:LYS:CB	41:BV:122:VAL:HG12	2.41	0.50
1:AA:1483:A:H5''	18:B3:1988:C:O2'	2.11	0.50
46:BZ:37:GLN:HA	46:BZ:40:ARG:HE	1.76	0.50
15:AO:87:LEU:HD13	15:AO:91:ILE:HG23	1.94	0.50
20:BA:119:GLN:O	20:BA:123:LEU:HD23	2.10	0.50
18:B3:44:G:H21	18:B3:45:A:H62	1.60	0.50
35:BP:125:GLU:HG3	35:BP:125:GLU:O	2.11	0.50
3:AB:192:GLN:N	3:AB:193:PRO:HD2	2.26	0.50
19:B4:107:C:H2'	19:B4:108:C:H6	1.75	0.50
35:BP:132:LYS:HB3	35:BP:136:ALA:HB2	1.92	0.50
19:B4:42:C:H5'	19:B4:43:G:OP2	2.12	0.50
24:BE:125:VAL:O	24:BE:126:GLU:HG2	2.11	0.50
6:AE:203:THR:HG23	6:AE:203:THR:O	2.10	0.50
22:BC:152:LYS:HD3	22:BC:152:LYS:N	2.27	0.50
1:AA:1299:A:O5'	13:AM:27:LYS:HE3	2.12	0.50
1:AA:1302:U:O4'	13:AM:44:ASN:CA	2.53	0.50
1:AA:1321:C:C4	17:AS:81:ARG:CG	2.94	0.50
13:AM:91:ASP:HA	13:AM:109:LEU:HG	1.93	0.50
1:AA:1322:C:P	17:AS:122:THR:HG22	2.51	0.50
17:AS:77:ARG:O	17:AS:77:ARG:HG3	2.10	0.50
18:B3:843:A:H3'	33:BN:131:ALA:H	1.75	0.50
19:B4:69:U:P	24:BE:13:SER:HB2	2.51	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:46:C:C2'	24:BE:152:ARG:CG	1.85	0.50
24:BE:205:SER:O	24:BE:206:GLN:HB2	2.11	0.50
24:BE:42:ALA:CB	24:BE:49:TYR:CD1	2.94	0.50
24:BE:64:ILE:CG2	24:BE:75:LEU:HD21	2.40	0.50
1:AA:320:C:O4'	1:AA:1435:G:N3	2.45	0.50
33:BN:31:THR:O	33:BN:32:ALA:HB3	2.11	0.50
33:BN:59:PHE:CE1	33:BN:79:LYS:CD	2.95	0.50
33:BN:16:ALA:HB3	33:BN:96:ASN:CG	2.31	0.50
18:B3:1304:U:C2'	23:BD:194:ARG:HD2	2.41	0.50
34:BO:112:ALA:CA	34:BO:115:VAL:HG21	2.36	0.50
34:BO:36:LEU:HD22	34:BO:130:ARG:HH11	1.74	0.50
18:B3:894:A:N3	23:BD:98:MET:CE	2.74	0.50
18:B3:1359:U:C4	23:BD:71:ALA:O	2.48	0.50
18:B3:2124:G:N3	21:BB:229:VAL:HG11	2.27	0.50
18:B3:797:A:H8	47:B9:12:LYS:HE2	1.76	0.50
21:BB:111:ILE:HG22	21:BB:167:VAL:N	2.27	0.50
21:BB:21:LEU:HD22	21:BB:21:LEU:N	2.27	0.50
25:BF:120:LYS:O	25:BF:121:ALA:HB3	2.11	0.50
1:AA:132:C:O2	1:AA:263:A:C4	2.63	0.50
18:B3:72:C:P	44:BX:49:LYS:HE3	2.51	0.50
22:BC:121:TRP:NE1	22:BC:122:TYR:CE2	2.79	0.50
18:B3:1733:A:C3'	22:BC:226:GLU:HA	2.26	0.50
22:BC:176:HIS:HE1	22:BC:335:VAL:CG2	2.24	0.50
28:BI:57:LEU:O	28:BI:129:VAL:HG23	2.11	0.50
18:B3:156:C:O4'	31:BL:163:LEU:O	2.28	0.50
20:BA:50:SER:HB3	20:BA:150:ASP:OD2	2.10	0.50
39:BT:80:ILE:HG22	39:BT:124:ARG:CA	2.32	0.50
4:AC:20:LEU:CG	4:AC:76:PHE:CE1	2.94	0.50
5:AD:122:VAL:HG23	5:AD:123:HIS:N	2.26	0.50
5:AD:82:ARG:CD	5:AD:104:PHE:CD1	2.94	0.50
8:AH:50:GLU:CG	8:AH:61:VAL:HB	2.41	0.50
3:AB:139:ASN:HA	8:AH:69:ASN:O	2.09	0.50
12:AL:88:PRO:O	12:AL:89:ASN:HB2	2.12	0.50
2:AT:462:PHE:C	2:AT:513:LYS:HZ3	2.14	0.50
27:BH:22:SER:O	27:BH:23:ARG:HG3	2.12	0.50
27:BH:20:ILE:CD1	27:BH:25:VAL:HA	2.42	0.50
1:AA:144:G:O6	1:AA:199:G:H4'	2.11	0.50
43:BW:22:VAL:CB	43:BW:25:LYS:HB2	2.27	0.50
18:B3:2437:A:P	46:BZ:70:ARG:HH22	2.33	0.50
40:BU:105:VAL:HG12	40:BU:106:ILE:N	2.25	0.50
40:BU:35:LEU:CD2	40:BU:40:ARG:HA	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:545:C:H5''	5:AD:67:PRO:HD2	1.92	0.50
1:AA:239:U:H2'	1:AA:287:U:H3	1.76	0.50
18:B3:1267:C:C4'	42:B0:61:LYS:HZ2	2.18	0.50
11:AK:38:ILE:HG12	11:AK:39:ALA:N	2.27	0.50
1:AA:828:A:H2'	1:AA:829:G:O4'	2.11	0.50
18:B3:1882:C:OP1	21:BB:200:GLY:C	2.50	0.50
4:AC:105:LYS:HG3	4:AC:172:ARG:C	2.31	0.50
43:BW:77:LYS:N	43:BW:82:GLU:HG2	2.15	0.50
22:BC:349:ALA:C	22:BC:350:LEU:HD22	2.32	0.50
29:BJ:132:ARG:NH2	29:BJ:133:PRO:HG3	2.26	0.50
18:B3:1717:A:P	35:BP:55:THR:HG23	2.52	0.50
20:BA:190:PHE:CZ	20:BA:200:ASN:CB	2.95	0.50
40:BU:118:LEU:HG	40:BU:118:LEU:O	2.11	0.50
18:B3:1835:U:C5	18:B3:1840:A:N7	2.69	0.50
18:B3:1810:C:C4	18:B3:2753:G:C4	3.00	0.50
26:BG:182:LYS:HG2	26:BG:194:SER:HB3	1.94	0.50
18:B3:939:A:O2'	18:B3:940:G:OP2	2.30	0.50
1:AA:1323:G:OP2	13:AM:135:GLY:HA3	2.10	0.50
18:B3:848:C:H2'	18:B3:849:C:C6	2.46	0.50
18:B3:2727:A:H2'	18:B3:2728:C:H5'	1.92	0.50
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.47	0.50
1:AA:1305:G:O2'	1:AA:1306:A:C8	2.43	0.50
18:B3:619:U:H5''	42:B0:46:PHE:HE1	1.77	0.50
10:AJ:93:LEU:HD23	10:AJ:99:ILE:HG21	1.92	0.50
19:B4:25:G:H3'	19:B4:25:G:OP1	2.12	0.50
24:BE:143:LYS:O	24:BE:171:LEU:HD11	2.12	0.50
24:BE:49:TYR:C	24:BE:50:ARG:HG3	2.31	0.50
24:BE:55:PHE:CD2	24:BE:60:ILE:CD1	2.95	0.50
33:BN:44:GLN:CA	33:BN:47:LEU:HD23	2.36	0.50
33:BN:59:PHE:CD1	33:BN:79:LYS:HG3	2.46	0.50
18:B3:2050:G:C5'	33:BN:82:TRP:CD2	2.82	0.50
18:B3:1309:U:OP2	23:BD:202:ARG:HG2	2.11	0.50
18:B3:27:U:N3	18:B3:1318:A:C2	2.78	0.50
23:BD:38:PHE:CZ	23:BD:241:ALA:N	2.79	0.50
18:B3:764:C:P	23:BD:85:GLY:HA3	2.49	0.50
30:BK:85:LEU:O	30:BK:86:LYS:HB2	2.11	0.50
21:BB:103:LEU:HD21	21:BB:135:ILE:HD12	1.94	0.50
21:BB:197:LYS:O	21:BB:197:LYS:HD3	2.11	0.50
18:B3:1285:U:H5''	25:BF:155:ILE:CB	2.41	0.50
25:BF:93:LYS:HD3	25:BF:93:LYS:N	2.27	0.50
18:B3:1006:A:H2'	18:B3:1007:A:C8	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2064:U:H5'	18:B3:2652:U:O3'	2.12	0.50
22:BC:231:ARG:CB	22:BC:232:TRP:CZ3	2.94	0.50
18:B3:2614:C:O2'	22:BC:239:ARG:O	2.30	0.50
22:BC:49:LYS:NZ	22:BC:50:ALA:HA	2.26	0.50
18:B3:2501:G:N2	28:BI:157:TYR:HD1	2.09	0.50
37:BR:18:PRO:CB	37:BR:49:LEU:HD21	2.42	0.50
18:B3:391:U:O2'	31:BL:195:THR:CG2	2.54	0.50
26:BG:203:ARG:HD2	26:BG:206:ASP:O	2.11	0.50
31:BL:174:ASN:HB3	31:BL:188:LYS:NZ	2.27	0.50
31:BL:43:ARG:HE	31:BL:46:LYS:HE3	1.76	0.50
18:B3:1789:G:OP1	18:B3:2881:C:O5'	2.29	0.50
18:B3:1786:C:C2'	18:B3:2883:A:H5''	2.27	0.50
29:BJ:71:ARG:HD2	29:BJ:75:ALA:N	2.27	0.50
39:BT:104:VAL:HG11	39:BT:125:LEU:CG	2.40	0.50
10:AJ:69:LYS:CB	14:AN:39:ARG:O	2.58	0.50
1:AA:560:U:N1	1:AA:563:A:C4'	2.73	0.50
3:AB:145:LEU:CD1	3:AB:159:ILE:HG22	2.41	0.50
3:AB:181:LEU:HD22	3:AB:181:LEU:N	2.27	0.50
1:AA:619:U:H4'	5:AD:141:VAL:O	2.08	0.50
5:AD:100:LYS:C	5:AD:191:ALA:HB3	2.32	0.50
1:AA:363:A:OP1	12:AL:76:LEU:CB	2.58	0.50
37:BR:31:ALA:HA	37:BR:32:ARG:HH11	1.76	0.50
1:AA:1372:U:P	9:AI:13:LYS:HZ3	2.35	0.50
18:B3:2578:G:H8	18:B3:2578:G:H5'	1.76	0.50
27:BH:109:ALA:O	27:BH:110:LYS:HG3	2.11	0.50
27:BH:104:VAL:CG1	27:BH:111:PHE:CD1	2.94	0.50
27:BH:17:THR:CG2	27:BH:18:VAL:H	2.19	0.50
32:BM:52:LYS:HG3	32:BM:53:TYR:CE1	2.46	0.50
43:BW:8:THR:CG2	43:BW:73:ARG:HH22	2.23	0.50
18:B3:1232:A:H5'	18:B3:2553:A:C2	2.47	0.50
40:BU:57:LEU:HD11	40:BU:105:VAL:CB	2.42	0.50
40:BU:72:SER:HB3	40:BU:80:VAL:CG2	2.39	0.50
41:BV:97:THR:O	41:BV:98:ALA:HB2	2.12	0.50
1:AA:1481:U:O2'	1:AA:1482:G:H5'	2.11	0.50
1:AA:728:A:H61	15:AO:108:LYS:CD	2.23	0.50
18:B3:1773:G:H1'	47:B9:13:TYR:C	2.06	0.50
11:AK:30:THR:HG23	11:AK:31:ASP:O	2.11	0.50
11:AK:47:VAL:HG11	11:AK:52:ASP:HA	1.94	0.50
18:B3:2250:G:N1	21:BB:33:TYR:O	2.42	0.50
3:AB:107:THR:HG23	3:AB:108:ASN:N	2.27	0.50
4:AC:107:LYS:CG	4:AC:112:LEU:HD12	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:562:C:C2	12:AL:32:ARG:HD2	2.42	0.50
7:AG:99:ASN:OD1	7:AG:171:ILE:HG22	2.11	0.50
18:B3:939:A:H4'	18:B3:940:G:O5'	2.11	0.50
38:BS:41:LYS:HD3	38:BS:41:LYS:O	2.12	0.50
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.77	0.50
18:B3:844:A:P	33:BN:131:ALA:H	2.32	0.50
42:B0:43:ARG:CZ	42:B0:44:ARG:H	2.23	0.50
18:B3:2060:A:C2'	42:B0:24:ARG:CD	2.87	0.50
19:B4:9:C:N4	24:BE:21:ARG:HD2	2.26	0.50
24:BE:41:LYS:HG3	24:BE:145:PHE:CE1	2.47	0.50
24:BE:43:LYS:N	24:BE:43:LYS:HD2	2.24	0.50
36:BQ:62:GLY:HA3	36:BQ:76:ILE:HA	1.94	0.50
33:BN:75:PHE:CZ	33:BN:77:VAL:CG1	2.95	0.50
42:B0:108:ILE:C	42:B0:108:ILE:HD13	2.31	0.50
18:B3:1309:U:C2'	18:B3:1310:U:H5'	2.42	0.50
18:B3:1348:A:C5'	23:BD:241:ALA:HB3	1.93	0.50
45:BY:14:SER:HB2	45:BY:29:GLN:HE22	1.77	0.50
21:BB:134:ILE:HD11	21:BB:148:ARG:CG	2.42	0.50
41:BV:62:LYS:O	41:BV:63:GLN:HB3	2.12	0.50
25:BF:167:ILE:HG21	25:BF:183:LEU:HD13	1.91	0.50
18:B3:68:U:O2'	44:BX:56:THR:HG23	2.12	0.50
22:BC:161:VAL:HG22	22:BC:178:ALA:O	2.11	0.50
22:BC:231:ARG:HG3	22:BC:232:TRP:HZ3	1.77	0.50
22:BC:282:TYR:CE2	22:BC:324:LYS:CG	2.94	0.50
22:BC:302:LYS:CB	22:BC:320:PHE:CZ	2.93	0.50
22:BC:304:ILE:HD12	22:BC:322:MET:HE2	1.94	0.50
22:BC:42:LEU:CD2	22:BC:45:PHE:CE2	2.94	0.50
22:BC:53:THR:HB	38:BS:17:ARG:HG3	1.93	0.50
22:BC:87:GLY:CA	22:BC:198:PHE:CE1	2.94	0.50
18:B3:2820:A:C2'	22:BC:89:VAL:HG12	2.42	0.50
28:BI:103:LEU:HD23	28:BI:118:ALA:CB	2.40	0.50
31:BL:161:ARG:CD	31:BL:164:THR:HA	2.39	0.50
31:BL:13:LYS:HZ1	31:BL:18:LEU:HG	1.76	0.50
18:B3:1806:G:C5'	18:B3:2874:G:C2'	2.77	0.50
18:B3:1805:G:P	18:B3:2875:A:O2'	2.70	0.50
20:BA:157:PHE:CZ	20:BA:165:LEU:CB	2.94	0.50
20:BA:51:GLY:O	20:BA:54:LYS:N	2.44	0.50
39:BT:132:LEU:H	39:BT:132:LEU:CD2	2.25	0.50
1:AA:1202:G:H2'	1:AA:1203:C:O4'	2.12	0.50
1:AA:617:G:OP2	5:AD:146:PHE:CE1	2.63	0.50
3:AB:88:PHE:CE1	3:AB:174:TYR:CB	2.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:170:PRO:HG2	8:AH:96:ARG:CB	2.42	0.50
6:AE:214:PHE:CZ	8:AH:70:LYS:HD3	2.46	0.50
6:AE:215:VAL:HG12	8:AH:75:SER:OG	2.10	0.50
1:AA:552:U:H5'	12:AL:107:PHE:N	2.27	0.50
12:AL:112:LYS:HA	12:AL:120:VAL:O	2.11	0.50
2:AT:141:THR:HG22	2:AT:483:PHE:HD2	1.76	0.50
18:B3:1745:G:OP1	37:BR:22:ILE:HG21	2.11	0.50
27:BH:7:GLU:HB3	27:BH:56:ALA:CB	2.39	0.50
1:AA:778:G:H5''	11:AK:127:LYS:O	1.89	0.50
1:AA:676:A:C2'	11:AK:121:PRO:HD2	2.42	0.50
18:B3:1386:G:O2'	18:B3:1387:G:H5'	2.11	0.50
1:AA:1493:A:O2'	1:AA:1494:G:H5'	2.12	0.50
1:AA:1343:G:C3'	9:AI:136:ARG:O	2.59	0.50
1:AA:545:C:P	5:AD:30:LEU:CD1	2.99	0.50
41:BV:106:ALA:HA	41:BV:108:TYR:HD1	1.70	0.50
1:AA:115:G:H1'	1:AA:116:A:N7	2.25	0.50
18:B3:1154:A:H2'	18:B3:1156:C:C2'	2.12	0.50
46:BZ:3:VAL:HB	46:BZ:4:PRO:CA	2.34	0.50
18:B3:1378:G:C6	18:B3:2748:G:C8	2.99	0.50
23:BD:250:THR:HG23	23:BD:253:ALA:N	2.21	0.50
40:BU:122:LYS:N	40:BU:122:LYS:HD3	2.26	0.50
24:BE:132:THR:O	24:BE:133:GLU:HB3	2.11	0.50
5:AD:44:ARG:CG	5:AD:45:ILE:HG23	2.42	0.50
19:B4:106:C:O2'	19:B4:107:C:H5'	2.11	0.50
1:AA:1172:C:O2'	1:AA:1173:G:H5'	2.11	0.50
18:B3:2445:U:H2'	18:B3:2446:G:C8	2.46	0.50
18:B3:2387:U:H2'	18:B3:2388:C:H6	1.77	0.50
19:B4:37:C:O2'	24:BE:154:THR:CA	2.59	0.50
19:B4:47:A:H5''	24:BE:160:PHE:CZ	2.47	0.50
19:B4:49:G:P	24:BE:158:ARG:CA	2.98	0.50
19:B4:6:C:C1'	24:BE:72:ASP:CG	2.79	0.50
24:BE:16:PHE:CG	36:BQ:19:PHE:CZ	2.73	0.50
18:B3:1433:G:OP2	33:BN:22:ARG:NH1	2.44	0.50
23:BD:112:VAL:HG22	23:BD:113:ASN:N	2.27	0.50
23:BD:25:PHE:HA	23:BD:126:ALA:HA	1.93	0.50
30:BK:53:PHE:CD1	30:BK:86:LYS:CE	2.79	0.50
47:B9:22:ARG:NE	47:B9:25:VAL:H	2.09	0.50
21:BB:127:ARG:HG2	21:BB:128:ALA:N	2.26	0.50
21:BB:157:ILE:HD12	21:BB:161:ALA:HB3	1.92	0.50
18:B3:1654:U:C5	21:BB:49:HIS:CD2	3.00	0.50
19:B4:97:U:O2	25:BF:220:LYS:CB	2.58	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:97:U:O2'	25:BF:223:ILE:HG23	2.11	0.50
1:AA:190(E):U:OP2	16:AQ:130:ILE:CD1	2.58	0.50
12:AL:142:LYS:HD2	12:AL:142:LYS:C	2.32	0.50
18:B3:2518:C:C2	28:BI:158:LYS:HD2	2.47	0.50
22:BC:302:LYS:O	22:BC:302:LYS:HE2	2.12	0.50
22:BC:77:VAL:O	22:BC:77:VAL:HG23	2.12	0.50
28:BI:53:VAL:HG13	28:BI:166:ILE:HG12	1.94	0.50
37:BR:117:PRO:CA	37:BR:135:VAL:HG13	2.38	0.50
37:BR:46:LEU:HD13	37:BR:46:LEU:H	1.76	0.50
37:BR:40:LYS:HG2	37:BR:57:MET:O	2.12	0.50
37:BR:54:LEU:HD11	37:BR:80:ARG:O	2.11	0.50
37:BR:95:PHE:HE2	38:BS:23:ARG:HG3	1.74	0.50
26:BG:115:VAL:HG11	26:BG:213:LEU:HD12	1.92	0.50
31:BL:119:TRP:O	31:BL:119:TRP:HE3	1.94	0.50
31:BL:187:ARG:O	31:BL:188:LYS:HB2	2.11	0.50
18:B3:1795:G:OP1	35:BP:99:ARG:NH2	2.45	0.50
18:B3:1788:U:C3'	18:B3:2881:C:C2'	2.27	0.50
18:B3:166:A:C4'	41:BV:30:GLY:CA	2.65	0.50
18:B3:2346:C:C6	29:BJ:64:ILE:HG13	2.46	0.50
29:BJ:95:PHE:CA	29:BJ:101:PHE:CD2	2.91	0.50
29:BJ:14:GLU:CD	29:BJ:129:VAL:HG13	2.32	0.50
18:B3:1673:U:H5"	39:BT:110:ASN:O	2.12	0.50
5:AD:99:LEU:HD12	5:AD:106:GLU:N	2.26	0.50
1:AA:619:U:C2	5:AD:127:VAL:O	2.60	0.50
8:AH:33:ILE:HG23	8:AH:34:ILE:N	2.26	0.50
12:AL:59:ILE:HD11	12:AL:117:ILE:HG21	1.93	0.50
32:BM:58:ARG:NH1	32:BM:60:ALA:HA	2.26	0.50
1:AA:1068:G:H8	1:AA:1068:G:OP2	1.94	0.50
1:AA:1068:G:C5'	1:AA:1388:C:OP1	2.55	0.50
35:BP:27:GLU:O	35:BP:31:ILE:HG13	2.12	0.50
43:BW:7:VAL:N	43:BW:74:ILE:HG22	2.19	0.50
1:AA:1345:U:H3	7:AG:76:TYR:CA	2.24	0.50
1:AA:1345:U:N3	7:AG:76:TYR:CA	2.74	0.50
40:BU:71:SER:O	40:BU:72:SER:HB2	2.12	0.50
18:B3:698:A:H3'	41:BV:114:LYS:CB	2.23	0.50
4:AC:114:ILE:HG12	4:AC:137:VAL:HG11	1.94	0.50
20:BA:85:MET:HG3	20:BA:89:ASP:OD2	2.12	0.50
32:BM:25:GLN:HE21	32:BM:30:GLN:CB	2.24	0.50
6:AE:105:ASP:O	6:AE:106:SER:HB3	2.12	0.50
42:B0:66:LEU:HG	42:B0:67:SER:O	2.12	0.50
20:BA:53:LEU:CD2	20:BA:189:PHE:CD2	2.95	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:325:A:H2'	1:AA:326:G:O4'	2.12	0.50
4:AC:79:ALA:CB	4:AC:80:PRO:HD3	2.37	0.50
30:BK:73:VAL:CG1	30:BK:75:PRO:CD	2.88	0.50
2:AT:433:ARG:HB3	2:AT:457:VAL:HG11	1.93	0.50
34:BO:100:THR:HB	34:BO:119:GLY:HA3	1.90	0.50
7:AG:213:LYS:C	7:AG:213:LYS:HD3	2.32	0.50
18:B3:681:G:O2'	18:B3:682:A:OP2	2.29	0.50
1:AA:960:U:H1'	1:AA:1223:C:H5'	1.93	0.50
13:AM:21:ASN:ND2	13:AM:35:ILE:HA	2.27	0.50
1:AA:979:C:H5''	17:AS:79:HIS:O	2.12	0.50
18:B3:1692:C:O4'	33:BN:129:TYR:CD1	2.62	0.50
33:BN:135:ILE:HD12	33:BN:135:ILE:C	2.32	0.50
1:AA:1176:A:O5'	9:AI:107:ALA:HB1	2.12	0.50
1:AA:1150:U:C2	10:AJ:59:PRO:N	2.79	0.50
18:B3:1011:C:P	24:BE:15:ARG:NH2	2.85	0.50
18:B3:2296:C:C6	36:BQ:4:SER:N	2.80	0.50
19:B4:37:C:C1'	24:BE:154:THR:HG22	2.42	0.50
24:BE:39:GLN:CB	24:BE:145:PHE:CE1	2.95	0.50
36:BQ:60:LYS:HB2	36:BQ:76:ILE:HD12	1.93	0.50
18:B3:2841:A:H2	33:BN:68:ARG:HB2	1.75	0.50
33:BN:56:ALA:CA	33:BN:73:LYS:HB2	2.42	0.50
18:B3:1343:C:C2	23:BD:188:ALA:HA	2.45	0.50
18:B3:553:G:C2'	18:B3:554:G:H5'	2.42	0.50
18:B3:51:G:O2'	45:BY:19:ASN:C	2.50	0.50
45:BY:30:LYS:CG	45:BY:31:LYS:N	2.75	0.50
45:BY:33:CYS:HA	45:BY:38:TYR:CD1	2.46	0.50
18:B3:1874:U:O2'	21:BB:125:LEU:HA	2.12	0.50
21:BB:136:ILE:HG22	21:BB:137:GLY:N	2.26	0.50
18:B3:1067:A:C4'	25:BF:94:ILE:HG22	2.37	0.50
16:AQ:111:SER:CB	16:AQ:112:PRO:HD3	2.31	0.50
16:AQ:69:ILE:C	16:AQ:69:ILE:HD12	2.31	0.50
18:B3:68:U:O4'	44:BX:51:ILE:O	2.29	0.50
44:BX:8:GLU:OE1	44:BX:8:GLU:HA	2.12	0.50
22:BC:232:TRP:CZ2	22:BC:264:ALA:CB	2.94	0.50
22:BC:287:GLY:HA2	22:BC:302:LYS:HA	1.94	0.50
22:BC:42:LEU:CD2	22:BC:45:PHE:CD2	2.94	0.50
28:BI:43:VAL:HG11	28:BI:86:HIS:HE1	1.76	0.50
28:BI:60:LEU:O	28:BI:60:LEU:HD23	2.12	0.50
18:B3:2242:U:O2'	18:B3:2243:C:O5'	2.29	0.50
26:BG:121:LYS:O	26:BG:124:ALA:HB3	2.11	0.50
18:B3:1805:G:H2'	18:B3:2883:A:N6	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:114:ILE:HG13	35:BP:118:LEU:HB2	1.94	0.50
35:BP:119:TYR:CD1	35:BP:120:HIS:N	2.80	0.50
18:B3:1707:G:HO2'	35:BP:81:LYS:HG3	1.66	0.50
18:B3:898:G:O5'	41:BV:25:ARG:CG	2.60	0.50
18:B3:2348:C:O2'	18:B3:2349:G:H5'	2.12	0.50
29:BJ:130:MET:CE	29:BJ:162:PHE:CD2	2.95	0.50
29:BJ:15:LYS:CB	29:BJ:70:VAL:HG21	2.40	0.50
18:B3:2220:C:O3'	20:BA:212:PRO:HD3	2.12	0.50
4:AC:9:LYS:HB2	4:AC:9:LYS:NZ	2.27	0.50
5:AD:101:VAL:HG23	5:AD:191:ALA:CB	2.42	0.50
5:AD:193:GLU:O	5:AD:196:GLU:HB3	2.11	0.50
8:AH:33:ILE:CG2	8:AH:60:ILE:HD11	2.42	0.50
1:AA:69:G:H2'	1:AA:171:A:C2	2.47	0.50
2:AT:108:HIS:CB	2:AT:536:LEU:CG	2.83	0.50
37:BR:35:TYR:CZ	37:BR:61:THR:CB	2.94	0.50
37:BR:66:LYS:N	37:BR:67:PRO:HD2	2.27	0.50
18:B3:2560:C:H5'	27:BH:168:ARG:NE	2.18	0.50
18:B3:1103:C:O2	32:BM:86:MET:CG	2.56	0.50
18:B3:1139:U:H5'	27:BH:62:ARG:CD	2.41	0.50
27:BH:82:VAL:HG13	27:BH:83:THR:N	2.27	0.50
32:BM:78:ILE:O	32:BM:81:LYS:HG3	2.12	0.50
32:BM:8:ILE:HD12	32:BM:18:LEU:CG	2.42	0.50
18:B3:80:A:H4'	40:BU:73:VAL:HG12	1.87	0.50
40:BU:113:LYS:N	40:BU:116:LYS:HE2	2.22	0.50
40:BU:36:SER:H	40:BU:39:LEU:HB3	1.76	0.50
40:BU:51:ARG:HG2	40:BU:52:ARG:N	2.26	0.50
1:AA:568:G:OP1	6:AE:163:SER:CB	2.59	0.50
1:AA:500:G:O6	5:AD:25:ASP:OD2	2.29	0.50
1:AA:404:U:C5	5:AD:36:LEU:HD22	2.46	0.50
18:B3:1235:G:C5	32:BM:69:PRO:HD2	2.43	0.50
1:AA:120:A:C2	1:AA:122:G:C2	2.99	0.50
1:AA:123:C:H5''	1:AA:312:C:HO2'	1.63	0.50
18:B3:1267:C:C3'	42:B0:61:LYS:HG2	2.35	0.50
32:BM:7:VAL:C	32:BM:115:LYS:HB3	2.31	0.50
4:AC:157:ILE:HG22	4:AC:158:HIS:N	2.27	0.50
33:BN:126:ARG:HG3	33:BN:137:LYS:CB	2.41	0.50
29:BJ:28:ARG:HG3	29:BJ:29:LEU:HD23	1.93	0.50
18:B3:249:G:O2'	18:B3:250:C:H5'	2.11	0.50
1:AA:1222:G:OP1	17:AS:120:SER:CB	2.59	0.50
13:AM:91:ASP:CA	13:AM:109:LEU:HG	2.40	0.50
13:AM:132:ARG:CG	13:AM:136:GLN:HE21	2.24	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1315:U:C4	17:AS:49:MET:HB3	2.42	0.50
1:AA:1151:A:H4'	10:AJ:87:HIS:HA	1.94	0.50
9:AI:45:PHE:CZ	9:AI:47:VAL:CG2	2.95	0.50
18:B3:1429:U:OP1	33:BN:125:ARG:N	2.45	0.50
23:BD:156:GLU:OE2	23:BD:157:SER:HA	2.12	0.50
23:BD:177:LEU:HA	23:BD:205:LEU:HD13	1.93	0.50
18:B3:677:C:H5'	23:BD:232:LEU:C	2.32	0.50
23:BD:38:PHE:HA	23:BD:41:VAL:HG23	1.94	0.50
34:BO:111:ARG:O	34:BO:112:ALA:HB3	2.11	0.50
30:BK:80:LEU:CD1	30:BK:112:ILE:HG23	2.42	0.50
18:B3:1869:A:H1'	21:BB:10:GLY:O	2.11	0.50
21:BB:104:GLY:CA	21:BB:138:HIS:HE1	2.20	0.50
21:BB:139:ASN:CB	21:BB:140:PRO:HD3	2.38	0.50
21:BB:44:VAL:HA	21:BB:59:LYS:O	2.12	0.50
21:BB:67:LYS:HG3	21:BB:73:GLU:CA	2.42	0.50
16:AQ:133:THR:H	16:AQ:135:ARG:NH2	2.08	0.50
18:B3:106:A:HO2'	44:BX:57:VAL:C	2.13	0.50
18:B3:2756:U:N3	18:B3:2896:A:H2	2.09	0.50
22:BC:113:VAL:HG13	22:BC:117:PHE:CG	2.47	0.50
22:BC:269:ARG:O	22:BC:271:TYR:HD1	1.94	0.50
22:BC:277:ILE:HG22	22:BC:278:ASN:N	2.27	0.50
22:BC:282:TYR:CE2	22:BC:324:LYS:CB	2.95	0.50
22:BC:52:MET:HB3	22:BC:76:THR:N	2.27	0.50
28:BI:26:VAL:HG12	28:BI:27:PRO:O	2.12	0.50
28:BI:35:ASP:CA	28:BI:88:ARG:HH12	2.24	0.50
37:BR:11:PHE:CB	37:BR:86:ARG:HG3	2.42	0.50
26:BG:121:LYS:HE2	26:BG:210:LEU:HD23	1.94	0.50
35:BP:80:ARG:HA	35:BP:81:LYS:HZ1	1.77	0.50
35:BP:84:ARG:CA	35:BP:87:ARG:HH21	2.25	0.50
29:BJ:16:LEU:C	29:BJ:17:VAL:HG12	2.32	0.50
29:BJ:36:LEU:HD22	29:BJ:67:HIS:CG	2.46	0.50
18:B3:1449:G:P	39:BT:110:ASN:HD21	2.35	0.50
4:AC:10:LEU:HD23	4:AC:10:LEU:N	2.27	0.50
10:AJ:69:LYS:CE	14:AN:39:ARG:NH1	2.74	0.50
5:AD:100:LYS:HE3	5:AD:173:ALA:CB	2.42	0.50
5:AD:179:ARG:O	5:AD:179:ARG:HG3	2.11	0.50
5:AD:97:LEU:HD23	5:AD:105:LEU:HG	1.94	0.50
1:AA:11:G:C1'	1:AA:525:C:H1'	2.40	0.50
2:AT:464:LEU:HD22	2:AT:510:ARG:HA	1.93	0.50
2:AT:536:LEU:HD22	18:B3:2698:G:C1'	2.40	0.50
18:B3:2596:A:C3'	37:BR:73:VAL:HG12	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:74:VAL:O	9:AI:78:TYR:HD1	1.95	0.50
18:B3:2578:G:N9	18:B3:2801:A:H5'	2.27	0.50
27:BH:112:ILE:HD11	27:BH:128:VAL:HG21	1.94	0.50
32:BM:107:ILE:HG13	32:BM:108:PRO:CD	2.42	0.50
43:BW:59:TRP:CZ3	43:BW:66:VAL:HG22	2.46	0.50
18:B3:907:A:H2'	18:B3:908:A:H8	1.77	0.50
1:AA:948:C:OP2	13:AM:143:ARG:O	2.14	0.50
1:AA:666:G:H5'	1:AA:726:C:H1'	1.94	0.50
11:AK:27:VAL:HG11	11:AK:63:ALA:HA	1.93	0.50
24:BE:190:ILE:HG12	24:BE:192:PRO:CD	2.21	0.50
4:AC:137:VAL:HG21	4:AC:149:MET:SD	2.52	0.50
8:AH:81:LYS:HD2	8:AH:123:LYS:HD2	1.93	0.50
32:BM:98:LEU:CA	32:BM:101:LEU:HD11	2.42	0.50
21:BB:36:ARG:HD2	21:BB:36:ARG:H	1.77	0.50
6:AE:79:VAL:HG22	6:AE:101:VAL:HG22	1.92	0.50
12:AL:55:GLU:OE2	12:AL:57:LEU:HD11	2.11	0.50
1:AA:190:C:H2'	1:AA:190(A):C:H6	1.76	0.50
1:AA:149:A:O2'	1:AA:150:C:H5'	2.11	0.50
18:B3:2804:C:H2'	18:B3:2805:A:O4'	2.12	0.50
13:AM:120:ARG:HH21	29:BJ:86:LYS:HE3	1.77	0.49
13:AM:74:GLN:O	13:AM:74:GLN:HG3	2.12	0.49
13:AM:86:LEU:HD23	13:AM:98:TYR:CB	2.35	0.49
42:B0:16:LYS:H	42:B0:16:LYS:CD	2.23	0.49
18:B3:618:G:C4'	42:B0:41:VAL:O	2.60	0.49
18:B3:618:G:H8	42:B0:46:PHE:C	2.15	0.49
24:BE:163:LEU:HD23	24:BE:167:SER:OG	2.11	0.49
36:BQ:45:ASN:HD21	36:BQ:48:ILE:HG21	1.77	0.49
33:BN:93:LEU:C	33:BN:93:LEU:HD12	2.32	0.49
42:B0:85:LEU:CD2	42:B0:85:LEU:H	2.23	0.49
18:B3:766:A:H5''	23:BD:72:ARG:HB3	1.93	0.49
23:BD:96:GLY:O	23:BD:97:ARG:HB2	2.11	0.49
30:BK:125:LEU:HD13	30:BK:125:LEU:C	2.33	0.49
30:BK:113:ALA:N	30:BK:132:ILE:HD12	2.27	0.49
30:BK:81:VAL:HG13	30:BK:82:ILE:N	2.26	0.49
18:B3:1900:A:OP1	21:BB:225:SER:CB	2.60	0.49
47:B9:67:ALA:CB	47:B9:68:TYR:CD1	2.95	0.49
18:B3:1874:U:OP2	21:BB:127:ARG:HG3	2.06	0.49
21:BB:138:HIS:HB2	21:BB:140:PRO:O	2.12	0.49
21:BB:26:ALA:C	21:BB:122:ARG:HD2	2.32	0.49
25:BF:222:PHE:CG	25:BF:223:ILE:N	2.80	0.49
18:B3:485:A:O2'	18:B3:487:G:H5'	2.11	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1730:G:H4'	18:B3:1731:C:O5'	2.12	0.49
18:B3:2656:G:O2'	18:B3:2657:G:H5'	2.12	0.49
22:BC:46:LEU:HG	22:BC:47:GLY:O	2.12	0.49
22:BC:48:TYR:CD2	22:BC:334:ILE:CG2	2.95	0.49
22:BC:49:LYS:HE2	22:BC:50:ALA:C	2.32	0.49
22:BC:75:VAL:HG22	22:BC:326:CYS:HB3	1.93	0.49
22:BC:88:VAL:CG2	22:BC:157:VAL:HG22	2.41	0.49
37:BR:54:LEU:HB2	37:BR:85:TRP:CZ2	2.46	0.49
22:BC:69:ARG:NE	37:BR:89:ASP:HB2	2.13	0.49
22:BC:359:ASP:CB	38:BS:16:GLY:H	2.22	0.49
31:BL:46:LYS:CD	31:BL:118:TYR:HE1	2.08	0.49
18:B3:2334:C:C5'	29:BJ:111:LEU:CA	2.89	0.49
29:BJ:23:GLY:H	29:BJ:64:ILE:HD13	1.50	0.49
18:B3:2167:A:HO2'	18:B3:2168:G:P	2.34	0.49
18:B3:2214:A:O4'	20:BA:103:LEU:CD1	2.59	0.49
39:BT:132:LEU:N	39:BT:132:LEU:HD23	2.26	0.49
39:BT:85:VAL:CG2	39:BT:86:SER:H	2.13	0.49
4:AC:9:LYS:HB2	4:AC:9:LYS:HZ3	1.77	0.49
3:AB:70:GLU:HB3	3:AB:118:ARG:HG3	1.93	0.49
8:AH:13:ILE:HB	8:AH:77:ARG:NH1	2.27	0.49
8:AH:26:ILE:O	8:AH:27:ARG:HB2	2.10	0.49
37:BR:34:LEU:HD22	37:BR:34:LEU:C	2.32	0.49
1:AA:1085:U:O3'	1:AA:1086:U:H6	1.95	0.49
18:B3:1381:A:H8	43:BW:25:LYS:CE	2.24	0.49
18:B3:1719:G:OP2	35:BP:19:ARG:CG	2.60	0.49
35:BP:10:ALA:CB	35:BP:21:VAL:HG21	2.41	0.49
35:BP:4:ARG:C	35:BP:4:ARG:HD3	2.32	0.49
43:BW:15:LEU:CD1	43:BW:15:LEU:H	2.25	0.49
18:B3:2382:A:C1'	46:BZ:12:LYS:HB2	2.42	0.49
1:AA:1375:A:C2	7:AG:76:TYR:CE1	3.00	0.49
1:AA:1497:G:C2	1:AA:1518:A:N3	2.63	0.49
18:B3:1301:C:C5	41:BV:8:ARG:CZ	2.95	0.49
41:BV:14:VAL:O	41:BV:15:SER:HB3	2.12	0.49
41:BV:7:THR:HG23	41:BV:8:ARG:N	2.27	0.49
18:B3:699:C:OP2	41:BV:114:LYS:C	2.51	0.49
41:BV:120:VAL:HB	41:BV:122:VAL:HG13	1.90	0.49
18:B3:2081:A:C4'	32:BM:69:PRO:CG	2.89	0.49
3:AB:108:ASN:HD22	3:AB:111:THR:HB	1.77	0.49
20:BA:117:ILE:C	20:BA:117:ILE:HD12	2.31	0.49
6:AE:143:TRP:HD1	6:AE:144:GLY:H	1.59	0.49
18:B3:1760:G:H22	35:BP:78:GLY:HA2	1.76	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:261:ASP:OD1	2:AT:262:THR:HG23	2.12	0.49
1:AA:190(H):G:O2'	1:AA:190(I):G:H5'	2.12	0.49
2:AT:547:HIS:HD2	2:AT:548:ASP:OD1	1.94	0.49
18:B3:389:G:OP1	46:BZ:46:GLN:OE1	2.30	0.49
1:AA:1221:G:H1'	17:AS:102:PHE:HA	1.94	0.49
13:AM:132:ARG:CB	13:AM:136:GLN:HE21	2.25	0.49
13:AM:21:ASN:HD22	13:AM:35:ILE:HG12	1.74	0.49
1:AA:1223:C:C5'	17:AS:100:LYS:CD	2.89	0.49
1:AA:1316:G:N2	17:AS:54:ALA:HB3	2.27	0.49
17:AS:90:ILE:HD11	17:AS:112:LEU:HD11	1.93	0.49
42:B0:49:ASN:C	42:B0:50:ILE:HD13	2.03	0.49
18:B3:639:A:H2'	18:B3:640:G:C8	2.47	0.49
9:AI:45:PHE:CE1	9:AI:47:VAL:CG2	2.95	0.49
24:BE:52:VAL:HG12	24:BE:53:VAL:N	2.27	0.49
18:B3:2387:U:HO2'	36:BQ:88:ARG:HB2	1.68	0.49
1:AA:335:C:H1'	1:AA:1434:A:H8	1.23	0.49
33:BN:30:GLU:OE1	33:BN:57:ILE:HD12	2.12	0.49
23:BD:137:ARG:CZ	23:BD:137:ARG:H	2.25	0.49
18:B3:1308:A:N6	23:BD:201:ARG:NH2	2.60	0.49
23:BD:49:TYR:N	23:BD:49:TYR:CD1	2.80	0.49
34:BO:67:ILE:HG22	34:BO:94:PHE:CE2	2.47	0.49
23:BD:62:GLU:HA	23:BD:74:PRO:CB	2.42	0.49
45:BY:27:HIS:C	45:BY:30:LYS:HE2	2.33	0.49
30:BK:37:LEU:CD2	30:BK:62:LEU:HD13	2.41	0.49
18:B3:1163:G:H8	30:BK:51:LYS:HB2	1.64	0.49
30:BK:67:ARG:O	30:BK:68:GLN:HB2	2.12	0.49
47:B9:10:THR:HA	47:B9:26:LYS:HB3	1.93	0.49
21:BB:116:GLU:HG3	21:BB:118:LYS:O	2.12	0.49
25:BF:157:LYS:HG2	25:BF:158:GLN:N	2.27	0.49
16:AQ:87:ARG:HG3	16:AQ:104:LYS:HG3	1.93	0.49
18:B3:1060:C:O2	28:BI:111:LEU:HD22	2.12	0.49
18:B3:2828:G:P	22:BC:129:PHE:HD1	2.35	0.49
22:BC:259:VAL:HG22	22:BC:261:TRP:CB	2.42	0.49
22:BC:261:TRP:O	22:BC:262:SER:HB3	2.12	0.49
22:BC:28:VAL:HG23	22:BC:28:VAL:O	2.12	0.49
22:BC:55:ILE:CG2	22:BC:57:ARG:HG3	2.42	0.49
28:BI:54:SER:N	28:BI:135:ILE:HD11	2.28	0.49
18:B3:2502:C:H1'	28:BI:157:TYR:CG	2.47	0.49
28:BI:51:HIS:HA	28:BI:166:ILE:HD11	1.92	0.49
26:BG:125:SER:H	26:BG:128:PRO:HG2	1.78	0.49
26:BG:202:VAL:O	26:BG:203:ARG:HB3	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:96:SER:HB3	29:BJ:101:PHE:CZ	2.47	0.49
18:B3:2334:C:H5''	29:BJ:110:ASP:O	2.10	0.49
21:BB:218:ILE:C	21:BB:218:ILE:HD12	2.32	0.49
5:AD:99:LEU:HD22	5:AD:101:VAL:O	2.12	0.49
1:AA:33:A:C4'	1:AA:364:A:O2'	2.60	0.49
27:BH:13:PRO:CD	27:BH:16:VAL:HG22	2.42	0.49
27:BH:94:TYR:OH	27:BH:99:ILE:HB	2.11	0.49
18:B3:1396:C:C4'	35:BP:2:ASN:HB3	2.43	0.49
35:BP:3:LEU:CD1	35:BP:32:ALA:HA	2.42	0.49
35:BP:7:LYS:HZ3	35:BP:8:ARG:N	2.09	0.49
43:BW:28:ALA:HB3	43:BW:29:PRO:CD	2.37	0.49
18:B3:2457:U:C4'	46:BZ:83:THR:HA	2.41	0.49
1:AA:1497:G:H2'	1:AA:1498:U:C5'	2.42	0.49
40:BU:30:LEU:HD13	40:BU:78:PHE:CG	2.46	0.49
40:BU:64:LYS:HD2	40:BU:64:LYS:C	2.32	0.49
1:AA:21:G:H5'	1:AA:884:U:C4'	2.43	0.49
5:AD:48:GLN:H	5:AD:48:GLN:HE21	1.59	0.49
1:AA:1483:A:O4'	18:B3:1989:G:C1'	2.61	0.49
18:B3:1772:C:H5'	47:B9:15:VAL:HG13	1.81	0.49
11:AK:38:ILE:HD13	11:AK:69:LYS:CG	2.42	0.49
20:BA:53:LEU:HD22	20:BA:189:PHE:CD2	2.47	0.49
1:AA:625:G:H2'	1:AA:626:U:C6	2.48	0.49
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.12	0.49
18:B3:941:G:O2'	18:B3:942:U:H5'	2.12	0.49
1:AA:1181:G:H4'	1:AA:1184:G:C4'	2.42	0.49
1:AA:636:U:H5'	16:AQ:68:LYS:NZ	2.28	0.49
18:B3:2515:C:C2'	18:B3:2516:G:H5'	2.43	0.49
1:AA:657:G:O2'	1:AA:658:G:H5'	2.12	0.49
1:AA:989:C:O2	1:AA:1016:A:N9	2.43	0.49
1:AA:1301:U:H4'	13:AM:30:TYR:H	1.71	0.49
1:AA:1314:C:N4	17:AS:48:GLY:O	2.46	0.49
17:AS:124:THR:HG22	17:AS:125:PRO:N	2.26	0.49
1:AA:1316:G:O6	17:AS:49:MET:HB2	2.12	0.49
45:BY:9:LYS:HD2	45:BY:9:LYS:C	2.33	0.49
42:B0:22:SER:HA	42:B0:28:VAL:HG23	1.94	0.49
9:AI:48:TYR:HD1	9:AI:84:ILE:CD1	2.26	0.49
10:AJ:61:LYS:NZ	10:AJ:86:ILE:HB	2.27	0.49
19:B4:14:G:N2	24:BE:12:TYR:HA	2.23	0.49
18:B3:524:A:OP1	33:BN:29:ARG:NH2	2.45	0.49
18:B3:646:G:H5''	23:BD:106:ARG:NH2	2.21	0.49
23:BD:160:LYS:HD3	23:BD:160:LYS:O	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2101:A:C5'	23:BD:70:VAL:O	2.60	0.49
31:BL:79:THR:HG23	31:BL:80:TYR:N	2.28	0.49
18:B3:1181:A:H2	30:BK:105:GLN:OE1	1.96	0.49
30:BK:117:ARG:C	30:BK:117:ARG:HD2	2.32	0.49
30:BK:65:GLN:HG3	30:BK:117:ARG:HH12	1.76	0.49
25:BF:223:ILE:HD13	25:BF:223:ILE:C	2.32	0.49
18:B3:954:U:OP1	36:BQ:13:TYR:HE2	1.95	0.49
18:B3:67:A:H3'	44:BX:55:LEU:HD21	0.49	0.49
44:BX:25:LYS:NZ	44:BX:28:LEU:HD22	2.27	0.49
18:B3:93:C:C6	44:BX:42:PRO:HG2	2.47	0.49
22:BC:39:PRO:HB3	22:BC:183:ASN:N	2.26	0.49
18:B3:1733:A:O3'	22:BC:226:GLU:HG2	2.12	0.49
18:B3:2065:C:C6	22:BC:255:HIS:ND1	2.79	0.49
22:BC:52:MET:HE2	22:BC:53:THR:HG23	1.95	0.49
22:BC:81:PRO:HG2	22:BC:82:PRO:HA	1.94	0.49
22:BC:45:PHE:CZ	22:BC:83:VAL:CB	2.93	0.49
22:BC:89:VAL:O	22:BC:89:VAL:HG23	2.12	0.49
28:BI:55:ASN:HB2	28:BI:162:GLN:O	2.11	0.49
37:BR:57:MET:CE	37:BR:126:TRP:CZ2	2.95	0.49
18:B3:2738:G:C3'	35:BP:60:SER:CA	2.91	0.49
35:BP:116:LYS:HD3	35:BP:116:LYS:C	2.32	0.49
18:B3:2737:C:C5'	35:BP:59:LYS:N	2.66	0.49
29:BJ:121:ILE:HG13	29:BJ:125:ASP:H	1.78	0.49
29:BJ:165:LYS:HB3	29:BJ:165:LYS:HZ2	1.76	0.49
29:BJ:17:VAL:HA	29:BJ:69:THR:O	2.12	0.49
18:B3:2347:C:H5'	29:BJ:46:GLN:HB3	1.86	0.49
18:B3:2214:A:C2	20:BA:106:LYS:HE3	2.47	0.49
39:BT:129:TYR:HD1	39:BT:130:ASP:O	1.95	0.49
5:AD:131:GLN:HB3	5:AD:133:HIS:CD2	2.47	0.49
12:AL:92:CYS:HA	12:AL:136:TRP:HZ3	1.77	0.49
41:BV:20:ARG:HG3	41:BV:21:ILE:N	2.28	0.49
2:AT:140:GLU:HG3	2:AT:188:ILE:CD1	2.42	0.49
1:AA:1372:U:P	9:AI:13:LYS:NZ	2.85	0.49
18:B3:2578:G:O2'	18:B3:2680:A:C5'	2.60	0.49
18:B3:2578:G:O4'	18:B3:2801:A:H5''	2.11	0.49
18:B3:1116:U:OP1	18:B3:1140:C:N3	2.45	0.49
18:B3:2565:C:N3	27:BH:170:LYS:O	2.46	0.49
27:BH:104:VAL:HG11	27:BH:111:PHE:HA	1.94	0.49
27:BH:20:ILE:HD12	27:BH:25:VAL:HG23	1.94	0.49
1:AA:143:A:C4'	1:AA:199:G:C2'	2.67	0.49
35:BP:17:GLY:N	35:BP:20:LYS:HZ3	2.10	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:16:HIS:CB	43:BW:30:ARG:HG3	2.40	0.49
1:AA:1375:A:C6	7:AG:76:TYR:CE2	2.96	0.49
1:AA:1404:C:O2'	1:AA:1519:A:C5'	2.57	0.49
40:BU:70:ILE:HG23	40:BU:72:SER:H	1.77	0.49
41:BV:9:LYS:N	41:BV:9:LYS:HD3	2.27	0.49
1:AA:294:U:OP1	1:AA:611:A:H5'	2.12	0.49
1:AA:404:U:O2	5:AD:22:SER:O	2.30	0.49
1:AA:1533:C:H2'	1:AA:1533:C:O2	2.11	0.49
18:B3:1829:A:C2	47:B9:17:TYR:CD2	2.74	0.49
1:AA:1442:G:N2	1:AA:1446:A:C8	2.79	0.49
21:BB:4:ILE:O	21:BB:4:ILE:HG22	2.12	0.49
32:BM:89:HIS:N	32:BM:90:LYS:HZ2	2.10	0.49
32:BM:7:VAL:HG22	32:BM:33:VAL:CG2	2.42	0.49
7:AG:79:LYS:HE3	7:AG:164:LEU:CD1	2.41	0.49
18:B3:284:C:H1'	18:B3:285:A:P	2.53	0.49
16:AQ:75:VAL:HG22	16:AQ:84:VAL:HG13	1.90	0.49
1:AA:1413:A:O2'	1:AA:1414:U:H5'	2.13	0.49
36:BQ:46:GLY:O	36:BQ:47:SER:HB2	2.11	0.49
20:BA:91:LYS:HD3	20:BA:91:LYS:H	1.76	0.49
1:AA:1299:A:H5'	13:AM:57:ARG:HH22	1.77	0.49
13:AM:91:ASP:OD1	13:AM:111:ASP:N	2.44	0.49
45:BY:9:LYS:HE2	45:BY:10:ARG:HA	1.93	0.49
18:B3:1072:G:H1'	18:B3:1088:A:N6	2.27	0.49
9:AI:62:ILE:HG22	9:AI:63:ASP:H	1.76	0.49
9:AI:48:TYR:CD1	9:AI:84:ILE:CD1	2.94	0.49
10:AJ:29:THR:HG23	10:AJ:30:LYS:N	2.27	0.49
10:AJ:31:VAL:HG23	10:AJ:32:LYS:N	2.28	0.49
10:AJ:52:LYS:HG3	10:AJ:92:ASP:O	2.11	0.49
24:BE:183:TRP:CE3	24:BE:184:ASP:HB2	2.47	0.49
24:BE:23:ARG:HA	24:BE:23:ARG:NE	2.25	0.49
24:BE:42:ALA:HB3	24:BE:44:TYR:O	2.12	0.49
36:BQ:34:TYR:CE1	36:BQ:97:LYS:CB	2.95	0.49
18:B3:1315:G:C2	42:B0:107:VAL:HG21	2.47	0.49
42:B0:120:THR:HG23	42:B0:121:ASN:N	2.27	0.49
23:BD:133:LEU:CD1	23:BD:137:ARG:HE	2.24	0.49
23:BD:21:LEU:HG	23:BD:22:PRO:CD	2.42	0.49
23:BD:232:LEU:HB2	23:BD:256:LYS:CE	2.42	0.49
18:B3:53:C:O4'	18:B3:121:U:H2'	2.13	0.49
18:B3:1166:G:C5	30:BK:107:ASP:OD2	2.66	0.49
18:B3:1869:A:C4	21:BB:10:GLY:HA2	2.46	0.49
18:B3:1939:U:C4'	21:BB:241:ARG:CG	2.74	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:138:PRO:HB2	25:BF:143:ILE:CG1	2.42	0.49
1:AA:130:A:C6	16:AQ:129:PRO:HG3	2.34	0.49
1:AA:190(D):U:HO2'	16:AQ:109:HIS:CD2	2.29	0.49
1:AA:190(F):G:P	16:AQ:109:HIS:CE1	3.05	0.49
1:AA:538:G:O2'	1:AA:539:A:H5'	2.12	0.49
18:B3:2655:U:C6	22:BC:261:TRP:CZ2	2.96	0.49
18:B3:969:G:H2'	18:B3:970:U:C6	2.48	0.49
18:B3:2655:U:C6	22:BC:261:TRP:CE2	3.00	0.49
22:BC:40:VAL:O	22:BC:41:ALA:HB3	2.12	0.49
18:B3:1056:U:OP2	28:BI:110:ARG:N	2.45	0.49
28:BI:40:LYS:HD3	28:BI:40:LYS:N	2.25	0.49
26:BG:115:VAL:CG1	26:BG:117:GLU:HB2	2.43	0.49
35:BP:99:ARG:CZ	35:BP:100:VAL:HG13	2.42	0.49
18:B3:1596:U:OP2	35:BP:102:ARG:CD	2.61	0.49
35:BP:140:HIS:O	35:BP:142:ILE:HG12	2.11	0.49
38:BS:52:THR:H	38:BS:55:PHE:HB3	1.76	0.49
7:AG:185:ASN:HB2	7:AG:191:GLU:HB2	1.92	0.49
18:B3:920:C:P	41:BV:38:HIS:HD1	2.35	0.49
29:BJ:16:LEU:O	29:BJ:70:VAL:HG22	2.11	0.49
20:BA:161:LYS:H	20:BA:161:LYS:CD	2.22	0.49
20:BA:60:ARG:HD3	20:BA:61:PRO:HG3	1.94	0.49
10:AJ:70:THR:HG1	14:AN:38:CYS:H	1.59	0.49
37:BR:33:ASN:HD21	37:BR:63:LYS:HD2	1.77	0.49
1:AA:1372:U:C5'	9:AI:74:VAL:HG23	2.26	0.49
1:AA:1373:G:H5'	7:AG:106:LYS:H	1.77	0.49
32:BM:79:PHE:CZ	32:BM:103:VAL:CG1	2.95	0.49
32:BM:43:SER:CB	32:BM:134:TYR:CD1	2.95	0.49
43:BW:33:LYS:HA	43:BW:36:LYS:HG2	1.94	0.49
46:BZ:17:ARG:HG2	46:BZ:18:LYS:N	2.23	0.49
21:BB:4:ILE:HG13	21:BB:207:ASP:O	2.11	0.49
21:BB:2:ARG:NE	21:BB:206:VAL:HG22	2.27	0.49
20:BA:120:VAL:HG23	20:BA:124:LEU:HB2	1.94	0.49
1:AA:346:G:OP1	37:BR:136:VAL:O	2.30	0.49
17:AS:67:ALA:CB	17:AS:68:PRO:HD3	2.41	0.49
24:BE:123:GLU:HG2	24:BE:124:GLU:N	2.27	0.49
6:AE:183:VAL:HG12	6:AE:187:LEU:CD1	2.37	0.49
18:B3:178:U:H5''	45:BY:47:ASN:HB3	1.94	0.49
1:AA:393:A:C2	1:AA:394:G:C8	3.01	0.49
20:BA:87:VAL:HG13	20:BA:88:ASP:N	2.27	0.49
1:AA:513:C:H2'	1:AA:514:C:H6	1.77	0.49
38:BS:41:LYS:HD3	38:BS:41:LYS:C	2.32	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:555:U:H6	18:B3:555:U:OP2	1.95	0.49
18:B3:2225:U:H2'	18:B3:2226:U:C6	2.47	0.49
1:AA:645:C:O2'	1:AA:646:U:H5'	2.13	0.49
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.13	0.49
1:AA:1309:G:N1	13:AM:95:GLY:CA	2.69	0.49
1:AA:988:G:N3	1:AA:1014:A:O2'	2.43	0.49
1:AA:1226:C:C1'	17:AS:124:THR:O	2.50	0.49
18:B3:629:A:C5'	42:B0:38:ILE:CB	2.66	0.49
42:B0:42:VAL:HA	42:B0:49:ASN:CB	2.42	0.49
18:B3:620:A:O5'	42:B0:39:ASP:O	2.24	0.49
19:B4:34:A:C2'	24:BE:185:PHE:CE1	2.95	0.49
19:B4:51:A:OP2	24:BE:92:LEU:CG	2.60	0.49
24:BE:36:LEU:O	24:BE:36:LEU:HD12	2.13	0.49
1:AA:318:G:O2'	1:AA:1468:A:C4'	2.60	0.49
33:BN:17:ARG:HG3	33:BN:147:LEU:N	2.28	0.49
18:B3:1304:U:O2'	23:BD:194:ARG:CB	2.54	0.49
18:B3:26:U:C2	18:B3:1319:G:C2'	2.96	0.49
18:B3:751:U:P	23:BD:112:VAL:HA	2.53	0.49
23:BD:215:VAL:HG21	23:BD:218:LEU:HD22	1.90	0.49
18:B3:1192:A:N7	30:BK:51:LYS:CE	2.72	0.49
18:B3:1846:U:OP1	21:BB:195:TRP:CZ2	2.65	0.49
47:B9:32:GLN:CG	47:B9:68:TYR:CA	2.90	0.49
21:BB:195:TRP:HZ2	21:BB:197:LYS:HD2	1.71	0.49
18:B3:68:U:OP2	39:BT:59:TYR:OH	2.29	0.49
18:B3:1132:A:H2'	18:B3:1133:A:C8	2.46	0.49
22:BC:188:SER:C	22:BC:191:VAL:HG22	2.32	0.49
22:BC:221:LYS:O	22:BC:221:LYS:HD2	2.12	0.49
18:B3:2283:G:H2'	28:BI:114:GLY:H	1.77	0.49
28:BI:121:LYS:CD	28:BI:121:LYS:H	2.23	0.49
28:BI:167:LEU:HD22	28:BI:168:SER:H	1.77	0.49
28:BI:90:ARG:NE	28:BI:90:ARG:HA	2.28	0.49
37:BR:93:LEU:HD23	38:BS:20:LEU:C	2.32	0.49
18:B3:2134:G:N7	18:B3:2258:A:H2'	2.28	0.49
26:BG:153:ALA:CB	26:BG:196:VAL:HG12	2.40	0.49
26:BG:196:VAL:O	26:BG:197:ALA:HB2	2.12	0.49
31:BL:52:TYR:CE2	31:BL:60:ILE:CG2	2.96	0.49
18:B3:1805:G:H2'	18:B3:1806:G:C8	2.47	0.49
29:BJ:140:ARG:O	29:BJ:142:ARG:HD2	2.13	0.49
29:BJ:10:ASP:HB3	29:BJ:161:TRP:CH2	2.48	0.49
29:BJ:44:PRO:HB2	29:BJ:67:HIS:CA	2.42	0.49
18:B3:2166:G:C6	20:BA:61:PRO:CG	2.89	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:82:VAL:HB	39:BT:83:PHE:HD1	1.69	0.49
3:AB:173:TRP:HD1	3:AB:176:LEU:HD21	1.77	0.49
8:AH:105:THR:HG21	8:AH:120:VAL:HG23	1.92	0.49
8:AH:33:ILE:HD12	8:AH:60:ILE:CD1	2.42	0.49
41:BV:23:LYS:HD2	41:BV:23:LYS:C	2.31	0.49
18:B3:164:G:C3'	41:BV:31:ARG:HB2	2.43	0.49
27:BH:124:ARG:HD3	27:BH:125:ASN:N	2.27	0.49
35:BP:8:ARG:HH12	35:BP:18:LYS:HZ3	1.60	0.49
35:BP:7:LYS:HB3	35:BP:7:LYS:NZ	2.22	0.49
40:BU:38:GLU:CA	40:BU:40:ARG:HH21	2.25	0.49
40:BU:42:GLN:O	40:BU:43:TYR:HD1	1.96	0.49
40:BU:49:PRO:O	40:BU:50:ILE:HB	2.13	0.49
5:AD:66:ASP:HB2	5:AD:67:PRO:CD	2.43	0.49
41:BV:114:LYS:C	41:BV:114:LYS:HD2	2.33	0.49
41:BV:110:LYS:HZ3	41:BV:127:ARG:HH21	1.60	0.49
41:BV:26:LYS:NZ	41:BV:26:LYS:HA	2.27	0.49
1:AA:121:C:C5	1:AA:235:C:C6	3.00	0.49
18:B3:480:C:H3'	18:B3:481:U:H5''	1.94	0.49
1:AA:112:G:H5'	1:AA:390:C:P	2.53	0.49
46:BZ:3:VAL:CB	46:BZ:4:PRO:HA	2.31	0.49
11:AK:38:ILE:HD13	11:AK:69:LYS:HG3	1.94	0.49
1:AA:55:A:C2	2:AT:68:ILE:CA	2.95	0.49
7:AG:210:ILE:H	7:AG:210:ILE:HD12	1.78	0.49
1:AA:1286:A:H2'	1:AA:1287:A:C4'	2.42	0.49
18:B3:2634:G:C5	21:BB:214:ASN:ND2	2.79	0.49
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.75	0.49
2:AT:379:MET:HB2	2:AT:402:ALA:HB3	1.94	0.49
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.47	0.49
1:AA:834:C:H2'	1:AA:835:U:C6	2.47	0.49
1:AA:136:C:H2'	1:AA:137:C:H6	1.77	0.49
41:BV:100:VAL:HG12	41:BV:100:VAL:O	2.12	0.49
10:AJ:65:ILE:HG23	10:AJ:65:ILE:O	2.12	0.49
13:AM:23:ASP:OD1	13:AM:31:ALA:HB1	2.13	0.49
18:B3:618:G:O4'	42:B0:46:PHE:N	2.45	0.49
1:AA:1127:G:N2	1:AA:1147:C:N4	2.61	0.49
9:AI:19:ALA:HB1	9:AI:64:ILE:HD11	1.94	0.49
10:AJ:37:VAL:HG23	10:AJ:38:SER:H	1.77	0.49
10:AJ:52:LYS:HE2	10:AJ:93:LEU:CD1	2.37	0.49
24:BE:185:PHE:HA	24:BE:202:GLY:O	2.13	0.49
19:B4:35:C:C2	24:BE:203:HIS:ND1	2.81	0.49
36:BQ:75:ILE:HG21	36:BQ:88:ARG:C	2.33	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:37:GLY:N	33:BN:113:VAL:HG13	2.21	0.49
18:B3:1370:G:N7	33:BN:27:ASN:HB2	2.25	0.49
33:BN:30:GLU:CD	33:BN:57:ILE:HD12	2.33	0.49
18:B3:750:A:O2'	23:BD:116:GLU:HB3	2.12	0.49
23:BD:140:ARG:HH21	23:BD:178:LEU:CB	2.21	0.49
23:BD:50:ALA:HB2	23:BD:104:THR:HB	1.94	0.49
18:B3:2101:A:C5'	23:BD:70:VAL:HG22	2.42	0.49
45:BY:46:TYR:HD2	45:BY:48:TRP:CD2	2.31	0.49
47:B9:29:GLU:HB3	47:B9:31:GLN:CB	2.43	0.49
47:B9:54:TRP:CE2	47:B9:70:VAL:HA	2.47	0.49
47:B9:73:ALA:O	47:B9:74:ALA:HB3	2.12	0.49
21:BB:6:ASN:ND2	21:BB:233:LYS:HG2	2.26	0.49
25:BF:116:VAL:HG12	25:BF:122:THR:HG21	1.94	0.49
25:BF:146:LEU:HD12	25:BF:146:LEU:N	2.28	0.49
19:B4:86:G:C6	25:BF:220:LYS:CG	2.95	0.49
1:AA:129(A):G:O2'	16:AQ:137:ASN:CB	2.61	0.49
18:B3:953:G:OP2	36:BQ:13:TYR:CA	2.55	0.49
18:B3:1743:G:H21	37:BR:18:PRO:CG	2.25	0.49
18:B3:2546:U:C4'	22:BC:238:PRO:HD3	2.41	0.49
18:B3:2615:U:H5'	22:BC:240:LYS:CA	2.43	0.49
18:B3:2848:G:OP2	22:BC:173:LYS:NZ	2.46	0.49
22:BC:223:HIS:NE2	22:BC:269:ARG:HD2	2.28	0.49
22:BC:235:LYS:HE2	22:BC:246:ARG:NH2	2.28	0.49
18:B3:2065:C:H6	22:BC:255:HIS:ND1	2.10	0.49
22:BC:75:VAL:HG11	22:BC:326:CYS:H	1.73	0.49
22:BC:84:VAL:HG22	22:BC:162:HIS:ND1	2.27	0.49
22:BC:93:GLU:O	22:BC:99:ARG:HD2	2.12	0.49
28:BI:49:CYS:SG	28:BI:168:SER:HB3	2.53	0.49
20:BA:16:LEU:HD21	20:BA:208:SER:N	2.27	0.49
20:BA:41:TYR:OH	20:BA:159:LEU:HD21	2.13	0.49
18:B3:123:U:N1	39:BT:88:LYS:HE3	2.27	0.49
39:BT:102:TYR:CE2	39:BT:104:VAL:HB	2.47	0.49
18:B3:124:C:C5	39:BT:88:LYS:HG3	2.43	0.49
5:AD:99:LEU:CB	5:AD:106:GLU:H	2.17	0.49
2:AT:108:HIS:CE1	2:AT:540:ILE:CG2	2.96	0.49
1:AA:1373:G:O4'	7:AG:104:GLY:CA	2.61	0.49
27:BH:43:VAL:HG12	32:BM:127:ARG:N	2.22	0.49
27:BH:9:GLN:HA	27:BH:54:LYS:HG2	1.92	0.49
27:BH:83:THR:O	27:BH:83:THR:HG23	2.11	0.49
27:BH:42:ASP:OD2	32:BM:124:ARG:HA	2.09	0.49
18:B3:1103:C:H1'	32:BM:86:MET:CG	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:22:TRP:N	35:BP:22:TRP:CD2	2.81	0.49
46:BZ:65:LYS:O	46:BZ:65:LYS:HG2	2.12	0.49
18:B3:78:G:C1'	40:BU:25:SER:HG	2.10	0.49
1:AA:500:G:N2	1:AA:546:G:OP2	2.44	0.49
41:BV:72:LEU:HD21	41:BV:77:LEU:CD1	2.41	0.49
18:B3:1267:C:C5'	42:B0:61:LYS:HZ2	2.25	0.49
15:AO:112:PHE:CD1	15:AO:115:ILE:HD12	2.48	0.49
18:B3:195:C:C2'	18:B3:196:G:H5'	2.42	0.49
21:BB:207:ASP:OD1	21:BB:211:GLY:HA2	2.13	0.49
24:BE:199:ILE:HG23	24:BE:199:ILE:O	2.12	0.49
20:BA:53:LEU:CD2	20:BA:189:PHE:CG	2.95	0.49
24:BE:122:VAL:HG12	24:BE:123:GLU:O	2.12	0.49
16:AQ:116:VAL:HG13	16:AQ:116:VAL:O	2.11	0.49
20:BA:100:ILE:CG2	20:BA:127:GLN:HG3	2.42	0.49
5:AD:60:LEU:O	5:AD:64:GLU:HG2	2.13	0.49
18:B3:440:C:H2'	18:B3:441:A:C8	2.48	0.49
2:AT:605:ILE:N	2:AT:605:ILE:HD12	2.27	0.49
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.77	0.49
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.43	0.49
17:AS:83:MET:CE	17:AS:116:LEU:HD11	2.41	0.49
9:AI:33:SER:OG	9:AI:37:LEU:HD23	2.12	0.49
9:AI:58:LYS:O	9:AI:59:PHE:HB2	2.13	0.49
10:AJ:46:GLU:OE1	10:AJ:46:GLU:HA	2.13	0.49
18:B3:2415:A:N1	24:BE:35:ARG:CD	2.74	0.49
19:B4:49:G:OP2	24:BE:98:ALA:HB1	2.13	0.49
1:AA:335:C:C5'	1:AA:1434:A:O3'	2.61	0.49
18:B3:1304:U:H5'	23:BD:193:TYR:OH	2.12	0.49
23:BD:186:LEU:N	23:BD:199:THR:HA	2.26	0.49
34:BO:109:GLY:O	34:BO:113:LYS:HB2	2.13	0.49
34:BO:112:ALA:O	34:BO:113:LYS:HD2	2.12	0.49
45:BY:33:CYS:CA	45:BY:38:TYR:HE1	2.26	0.49
21:BB:233:LYS:O	21:BB:234:ALA:HB3	2.12	0.49
25:BF:86:VAL:O	25:BF:86:VAL:HG13	2.12	0.49
18:B3:91:G:O4'	44:BX:39:PRO:HB2	2.12	0.49
18:B3:1134:G:C5'	18:B3:1229:C:C1'	2.80	0.49
18:B3:1742:A:H8	18:B3:2723:G:C4'	2.09	0.49
18:B3:2823:G:OP2	22:BC:135:LYS:HB2	2.13	0.49
18:B3:969:G:H4'	28:BI:40:LYS:HA	1.94	0.49
18:B3:2847:G:P	22:BC:172:GLN:OE1	2.71	0.49
18:B3:2809:G:C4'	22:BC:18:ARG:HH21	2.14	0.49
22:BC:201:THR:HG22	22:BC:202:VAL:H	1.75	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:78:VAL:HG12	22:BC:79:ASP:N	2.27	0.49
28:BI:70:ILE:HD13	28:BI:74:LYS:HD3	1.94	0.49
18:B3:1002:G:C3'	28:BI:90:ARG:NH1	2.76	0.49
31:BL:156:LYS:HG2	31:BL:157:HIS:N	2.27	0.49
18:B3:1788:U:C5'	18:B3:2882:G:H3'	2.43	0.49
35:BP:139:GLU:O	35:BP:142:ILE:HD13	2.13	0.49
41:BV:27:HIS:HB3	41:BV:28:PRO:CA	2.35	0.49
39:BT:68:SER:H	39:BT:71:ALA:HB3	1.77	0.49
4:AC:27:GLU:HB3	4:AC:64:ARG:HH21	1.77	0.49
1:AA:6:G:C2'	6:AE:196:TYR:CE2	2.95	0.49
1:AA:825:G:H2'	1:AA:826:C:H6	1.78	0.49
3:AB:119:LEU:HD12	3:AB:141:PRO:HB2	1.93	0.49
5:AD:86:LEU:HD11	5:AD:103:ASP:HB3	1.94	0.49
5:AD:175:ARG:H	5:AD:175:ARG:NE	2.11	0.49
6:AE:153:LEU:CD2	8:AH:98:PHE:HD1	2.26	0.49
1:AA:31:G:O6	1:AA:48:C:OP1	2.29	0.49
2:AT:536:LEU:CD2	18:B3:2698:G:C4'	2.89	0.49
37:BR:70:ARG:HH22	37:BR:71:LYS:HB2	1.77	0.49
18:B3:1225:C:OP1	18:B3:1249:U:H1'	2.13	0.49
27:BH:181:VAL:HG22	27:BH:183:HIS:O	2.12	0.49
1:AA:218:C:H2'	1:AA:219:C:H6	1.77	0.49
43:BW:13:ILE:HD12	43:BW:17:LYS:HE2	1.89	0.49
43:BW:11:TYR:CE2	43:BW:35:ILE:CB	2.96	0.49
43:BW:50:LEU:O	43:BW:51:ALA:HB2	2.12	0.49
18:B3:906:C:O2	18:B3:1329:A:N7	2.46	0.49
41:BV:144:VAL:HG12	41:BV:145:GLU:N	2.27	0.49
41:BV:70:PRO:CB	41:BV:101:ILE:HG21	2.42	0.49
41:BV:96:GLU:HA	41:BV:123:ILE:CD1	2.41	0.49
15:AO:114:LEU:HA	15:AO:117:ILE:HG12	1.93	0.49
1:AA:519:C:C5'	12:AL:67:ALA:HB1	2.41	0.49
11:AK:15:VAL:CB	11:AK:30:THR:HG22	2.35	0.49
3:AB:40:ARG:NH2	3:AB:44:VAL:HG21	2.28	0.49
1:AA:279:A:H5''	1:AA:280:C:H3'	1.95	0.49
32:BM:25:GLN:HG2	32:BM:30:GLN:CB	2.27	0.49
29:BJ:9:ARG:HH22	29:BJ:133:PRO:CB	2.25	0.49
11:AK:83:ARG:O	11:AK:84:ALA:HB3	2.13	0.49
20:BA:53:LEU:CD2	20:BA:189:PHE:CE2	2.95	0.49
36:BQ:11:THR:C	36:BQ:12:ARG:HD2	2.32	0.49
34:BO:104:LEU:CD2	34:BO:105:ARG:H	2.20	0.49
8:AH:41:GLN:NE2	8:AH:48:GLU:HA	2.28	0.49
7:AG:102:ASN:N	7:AG:102:ASN:HD22	2.11	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1810:C:H1'	18:B3:2753:G:C1'	2.42	0.49
1:AA:1194:U:O2'	1:AA:1195:C:H5'	2.13	0.49
6:AE:80:MET:O	6:AE:81:ASN:HB3	2.12	0.49
1:AA:1121:U:H2'	1:AA:1122:U:C6	2.47	0.49
19:B4:52:A:O2'	19:B4:53:G:H5'	2.12	0.49
18:B3:1887:U:H2'	18:B3:1888:C:C6	2.48	0.49
25:BF:140:TYR:O	25:BF:141:SER:HB3	2.11	0.49
1:AA:1309:G:C8	13:AM:92:ILE:HG22	1.62	0.49
17:AS:107:ILE:HG22	17:AS:111:MET:SD	2.53	0.49
1:AA:1220:G:C5	17:AS:79:HIS:N	2.59	0.49
9:AI:26:GLY:HA2	9:AI:62:ILE:O	2.11	0.49
9:AI:18:VAL:CG2	9:AI:67:ARG:H	2.25	0.49
9:AI:47:VAL:HA	9:AI:81:ARG:HB2	1.95	0.49
24:BE:227:LEU:O	24:BE:228:ALA:HB2	2.13	0.49
24:BE:63:GLN:CG	24:BE:64:ILE:H	2.22	0.49
36:BQ:43:LYS:CA	36:BQ:58:GLN:HG2	2.43	0.49
18:B3:496:G:H4'	18:B3:497:A:OP1	2.12	0.49
33:BN:59:PHE:CE1	33:BN:80:ALA:CA	2.94	0.49
18:B3:1350:U:H6	23:BD:43:LYS:HA	1.77	0.49
23:BD:173:ALA:O	23:BD:174:HIS:HB3	2.12	0.49
23:BD:31:PRO:O	23:BD:34:VAL:HG22	2.13	0.49
34:BO:33:TYR:HA	34:BO:36:LEU:HG	1.95	0.49
18:B3:1358:A:H2	23:BD:86:GLN:HB3	1.68	0.49
18:B3:471:G:H5''	45:BY:15:HIS:CD2	2.48	0.49
45:BY:48:TRP:CD1	45:BY:48:TRP:C	2.85	0.49
18:B3:796:A:O4'	47:B9:12:LYS:CB	2.24	0.49
47:B9:32:GLN:CG	47:B9:68:TYR:HA	2.42	0.49
47:B9:67:ALA:HB1	47:B9:68:TYR:HD1	1.77	0.49
25:BF:87:ARG:HH21	25:BF:109:ARG:C	2.16	0.49
1:AA:129:U:O2'	16:AQ:129:PRO:HD3	2.13	0.49
44:BX:25:LYS:NZ	44:BX:51:ILE:HG13	2.27	0.49
22:BC:157:VAL:O	22:BC:182:LEU:HD13	2.13	0.49
22:BC:191:VAL:HG23	22:BC:192:ASP:N	2.27	0.49
22:BC:251:ILE:CG2	22:BC:261:TRP:HB3	2.42	0.49
22:BC:39:PRO:HG3	22:BC:182:LEU:HD23	1.93	0.49
28:BI:105:CYS:HB2	28:BI:111:LEU:CB	2.42	0.49
28:BI:116:ARG:HH11	28:BI:117:GLY:HA2	1.78	0.49
37:BR:57:MET:CE	37:BR:126:TRP:CH2	2.96	0.49
37:BR:83:LYS:CA	37:BR:83:LYS:HE2	2.35	0.49
31:BL:119:TRP:HB3	31:BL:128:TYR:C	2.32	0.49
31:BL:88:VAL:H	31:BL:90:GLU:CD	2.16	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2885:A:H2'	18:B3:2886:C:H6	1.78	0.49
18:B3:1798:C:C5'	35:BP:70:ARG:O	2.56	0.49
35:BP:85:GLU:O	35:BP:86:ALA:HB3	2.12	0.49
38:BS:51:TRP:HZ3	38:BS:56:ARG:CD	2.26	0.49
18:B3:2346:C:P	29:BJ:47:SER:O	2.68	0.49
29:BJ:62:GLU:HB3	29:BJ:64:ILE:HG22	1.94	0.49
39:BT:75:VAL:HG12	39:BT:80:ILE:HA	1.95	0.49
10:AJ:70:THR:C	14:AN:39:ARG:N	2.50	0.49
8:AH:25:LEU:HD13	8:AH:59:LYS:HD3	1.95	0.49
8:AH:76:PRO:O	8:AH:128:VAL:HG23	2.12	0.49
1:AA:68:G:C3'	1:AA:73:C:P	3.01	0.49
32:BM:72:PHE:CE2	32:BM:81:LYS:HB3	2.47	0.49
35:BP:51:LYS:HE2	35:BP:52:LYS:HE3	1.89	0.49
46:BZ:9:THR:CB	46:BZ:19:HIS:HB3	2.43	0.49
18:B3:2381:C:H4'	46:BZ:8:LYS:HE3	1.95	0.49
1:AA:1499:A:OP1	1:AA:1521:G:OP1	2.31	0.49
40:BU:39:LEU:HD11	40:BU:43:TYR:CE1	2.46	0.49
18:B3:644:G:C5	41:BV:16:ALA:HB3	2.47	0.49
2:AT:501:LEU:CB	12:AL:99:ASN:HB2	2.42	0.49
41:BV:70:PRO:N	41:BV:108:TYR:HB2	2.27	0.49
21:BB:4:ILE:CG2	21:BB:208:HIS:HA	2.43	0.49
11:AK:48:LYS:HE3	11:AK:48:LYS:CA	2.17	0.49
20:BA:68:PHE:CD1	20:BA:85:MET:CE	2.95	0.49
33:BN:137:LYS:H	33:BN:137:LYS:CD	2.15	0.49
1:AA:1136:U:H5''	1:AA:1137:C:OP2	2.12	0.49
11:AK:101:LEU:HD11	11:AK:114:ILE:CG1	2.43	0.49
7:AG:219:VAL:O	7:AG:222:SER:HB2	2.13	0.49
18:B3:1477:C:C5'	18:B3:1868:G:H5''	2.43	0.49
5:AD:148:VAL:HG13	5:AD:152:SER:OG	2.13	0.49
1:AA:942:G:O2'	1:AA:943:U:H5'	2.11	0.49
18:B3:1463:A:H2'	18:B3:1464:U:C6	2.48	0.49
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.12	0.49
1:AA:1329:A:C6	13:AM:94:ASP:O	2.39	0.49
29:BJ:85:VAL:HG23	29:BJ:86:LYS:N	2.27	0.49
42:B0:19:ARG:NH1	42:B0:20:HIS:H	2.11	0.49
9:AI:45:PHE:HD1	9:AI:77:VAL:CG2	2.20	0.49
19:B4:34:A:C3'	24:BE:185:PHE:CE1	2.96	0.49
24:BE:185:PHE:HD1	24:BE:203:HIS:ND1	2.11	0.49
24:BE:75:LEU:HD23	24:BE:75:LEU:H	1.78	0.49
36:BQ:63:VAL:HG22	36:BQ:77:ASN:CB	2.42	0.49
1:AA:335:C:O4'	1:AA:1435:G:OP2	2.30	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2052:U:OP2	33:BN:23:VAL:HG23	1.96	0.49
42:B0:101:SER:O	42:B0:102:ALA:HB2	2.12	0.49
18:B3:1347:U:O3'	23:BD:241:ALA:HB3	2.13	0.49
18:B3:1167:G:H1'	30:BK:110:ILE:CB	2.36	0.49
18:B3:1181:A:O2'	30:BK:109:ILE:HG12	2.13	0.49
30:BK:107:ASP:O	30:BK:110:ILE:HB	2.12	0.49
21:BB:101:LEU:CD1	21:BB:105:SER:HB2	2.25	0.49
25:BF:147:VAL:HG23	25:BF:148:TYR:N	2.27	0.49
25:BF:142:THR:HG21	25:BF:236:ASN:CG	2.33	0.49
1:AA:131:C:H1'	1:AA:264:U:O2	2.10	0.49
18:B3:2765:C:H2'	18:B3:2766:A:C8	2.48	0.49
22:BC:109:LEU:CD2	22:BC:118:TYR:CD1	2.95	0.49
22:BC:327:ILE:HB	22:BC:328:PRO:CA	2.43	0.49
22:BC:332:LYS:HG2	22:BC:332:LYS:O	2.12	0.49
22:BC:81:PRO:CB	22:BC:82:PRO:HA	2.43	0.49
22:BC:85:VAL:CG1	22:BC:159:VAL:HG11	2.42	0.49
26:BG:122:GLN:NE2	26:BG:188:LEU:HB3	2.28	0.49
31:BL:114:VAL:HG13	31:BL:114:VAL:O	2.12	0.49
18:B3:1807:U:C2	18:B3:2883:A:H2'	2.48	0.49
35:BP:100:VAL:O	35:BP:104:LEU:HD13	2.13	0.49
35:BP:57:HIS:NE2	35:BP:59:LYS:HG2	2.27	0.49
35:BP:59:LYS:NZ	35:BP:59:LYS:HB2	2.28	0.49
35:BP:62:THR:HA	35:BP:65:HIS:HE1	1.73	0.49
35:BP:96:ARG:HE	35:BP:99:ARG:HH21	1.59	0.49
29:BJ:23:GLY:O	29:BJ:64:ILE:HD12	2.13	0.49
20:BA:67:ILE:HD12	20:BA:144:LEU:HD21	1.92	0.49
18:B3:124:C:H5	39:BT:88:LYS:CE	1.91	0.49
18:B3:1674:C:P	39:BT:94:ILE:CD1	3.01	0.49
10:AJ:78:THR:C	14:AN:39:ARG:CD	2.80	0.49
10:AJ:78:THR:C	14:AN:39:ARG:NE	2.67	0.49
5:AD:150:LEU:CG	5:AD:189:ASP:HA	2.42	0.49
6:AE:138:ILE:O	6:AE:138:ILE:HG23	2.11	0.49
8:AH:101:VAL:O	8:AH:101:VAL:HG13	2.13	0.49
1:AA:70:G:O2'	1:AA:152:A:C2	2.66	0.49
1:AA:777:A:C3'	11:AK:126:ARG:NH1	2.67	0.49
40:BU:111:LEU:H	40:BU:111:LEU:HD13	1.75	0.49
40:BU:81:GLN:CG	40:BU:82:VAL:H	2.19	0.49
1:AA:321:A:H5'	1:AA:1437:C:C4'	2.41	0.49
1:AA:1340:A:C2'	9:AI:141:TYR:CE2	2.95	0.49
15:AO:77:ASN:HB3	15:AO:85:GLU:HA	1.93	0.49
32:BM:98:LEU:HG	32:BM:99:GLU:N	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:28:LYS:O	46:BZ:29:ALA:HB2	2.12	0.49
18:B3:10:U:O2'	18:B3:11:A:P	2.69	0.49
18:B3:199:A:C2'	18:B3:200:U:H5''	2.43	0.49
7:AG:213:LYS:HD2	7:AG:214:ASP:OD1	2.13	0.49
24:BE:140:ARG:H	24:BE:140:ARG:HD2	1.77	0.49
18:B3:1214:G:O2'	18:B3:1215:A:H8	1.96	0.49
18:B3:2842:G:H2'	18:B3:2843:A:H5'	1.95	0.49
1:AA:92:C:O2'	1:AA:93:G:H5'	2.13	0.49
18:B3:844:A:P	33:BN:133:GLY:HA2	2.52	0.49
9:AI:99:GLN:HE21	9:AI:115:LEU:HB2	1.78	0.49
9:AI:9:PHE:O	9:AI:83:ALA:HB2	2.13	0.49
9:AI:8:THR:OG1	9:AI:83:ALA:HA	2.13	0.49
1:AA:1148:U:C4'	9:AI:9:PHE:CZ	2.91	0.49
18:B3:2388:C:O2'	36:BQ:54:HIS:CD2	2.57	0.49
19:B4:34:A:C3'	24:BE:185:PHE:HE1	2.23	0.49
24:BE:207:TYR:CD1	24:BE:208:MET:N	2.80	0.49
24:BE:43:LYS:HG2	24:BE:44:TYR:CD1	2.40	0.49
36:BQ:18:ASP:H	36:BQ:20:ARG:NH2	2.10	0.49
1:AA:336:C:C5	1:AA:1434:A:C1'	2.96	0.49
23:BD:174:HIS:HA	23:BD:177:LEU:HD13	1.95	0.49
23:BD:22:PRO:HB2	23:BD:25:PHE:HD2	1.78	0.49
18:B3:35:U:C4'	23:BD:49:TYR:HA	2.43	0.49
18:B3:1459:A:C5'	21:BB:20:ARG:CD	2.91	0.49
18:B3:1287:A:O3'	25:BF:109:ARG:NH2	2.46	0.49
18:B3:948:G:O2'	36:BQ:100:LYS:HE2	2.10	0.49
25:BF:117:LYS:CE	25:BF:118:VAL:HG12	2.42	0.49
25:BF:149:LYS:HZ1	25:BF:206:LEU:CD1	2.26	0.49
25:BF:174:LYS:HG2	25:BF:200:PHE:CE1	2.35	0.49
25:BF:195:LYS:O	25:BF:199:ASN:HA	2.13	0.49
25:BF:206:LEU:HG	25:BF:207:SER:N	2.28	0.49
25:BF:97:LYS:CB	25:BF:98:PRO:HD3	2.37	0.49
44:BX:22:VAL:HA	44:BX:25:LYS:HB2	1.94	0.49
44:BX:9:LEU:O	44:BX:10:ARG:HB3	2.11	0.49
18:B3:2912:C:O2'	18:B3:2913:A:H5'	2.12	0.49
22:BC:109:LEU:HD21	22:BC:118:TYR:CD1	2.47	0.49
22:BC:15:PHE:CD2	22:BC:18:ARG:CG	2.95	0.49
22:BC:34:ASP:CG	22:BC:183:ASN:HB3	2.32	0.49
18:B3:2720:C:P	38:BS:33:ASN:ND2	2.85	0.49
31:BL:52:TYR:HB2	31:BL:132:ILE:HD13	1.94	0.49
31:BL:141:ILE:CG1	31:BL:147:TYR:CZ	2.94	0.49
18:B3:2334:C:O4'	29:BJ:114:LYS:N	2.44	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:66:CYS:SG	20:BA:107:TYR:CG	3.06	0.49
39:BT:83:PHE:O	39:BT:84:GLN:HB3	2.13	0.49
10:AJ:70:THR:O	14:AN:38:CYS:C	2.50	0.49
6:AE:170:PRO:HG2	8:AH:96:ARG:HB3	1.95	0.49
27:BH:105:GLU:OE1	27:BH:106:LYS:HB2	2.13	0.49
27:BH:23:ARG:C	27:BH:23:ARG:HD2	2.34	0.49
35:BP:31:ILE:HG21	35:BP:49:ILE:CD1	2.13	0.49
46:BZ:15:THR:HG21	46:BZ:76:CYS:SG	2.53	0.49
40:BU:101:PRO:HB3	40:BU:104:LEU:CD2	2.42	0.49
40:BU:100:HIS:HD2	40:BU:104:LEU:HD22	1.71	0.49
18:B3:80:A:H5''	40:BU:74:TYR:CE2	2.48	0.49
40:BU:81:GLN:NE2	40:BU:96:PRO:HG2	2.28	0.49
2:AT:748:ASN:HB3	18:B3:2508:C:C1'	2.32	0.49
40:BU:16:ARG:HH12	40:BU:17:LYS:HB3	1.76	0.49
18:B3:2396:C:C2'	41:BV:46:LYS:CE	2.89	0.49
18:B3:2011:A:H4'	18:B3:2012:U:O5'	2.13	0.49
32:BM:94:GLY:O	32:BM:98:LEU:HB2	2.13	0.49
32:BM:31:LYS:NZ	32:BM:100:ARG:HD3	2.28	0.49
24:BE:218:ARG:HG3	24:BE:221:GLU:HG2	1.94	0.49
30:BK:93:LYS:O	30:BK:93:LYS:HG3	2.12	0.49
2:AT:202:VAL:CG1	2:AT:209:VAL:CG2	2.89	0.49
40:BU:122:LYS:CD	40:BU:122:LYS:H	2.25	0.49
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.42	0.49
1:AA:999:C:H2'	1:AA:1000:U:C6	2.48	0.49
1:AA:659:U:O2'	1:AA:660:G:H5'	2.12	0.49
8:AH:67:ARG:HB3	8:AH:67:ARG:NH1	2.28	0.49
18:B3:1946:C:H2'	18:B3:1971:G:C8	2.47	0.49
18:B3:1978:A:O2'	18:B3:1979:G:OP1	2.24	0.49
18:B3:887:G:H2'	18:B3:888:U:C6	2.48	0.49
16:AQ:100:GLU:HA	16:AQ:100:GLU:OE1	2.13	0.49
13:AM:42:TYR:CZ	13:AM:97:ASP:HB3	2.39	0.48
18:B3:1072:G:O2'	18:B3:1073:A:C8	2.66	0.48
10:AJ:97:VAL:C	10:AJ:99:ILE:H	2.17	0.48
19:B4:34:A:C2	24:BE:185:PHE:HD1	2.29	0.48
24:BE:187:THR:OG1	24:BE:200:PHE:HD2	1.96	0.48
36:BQ:42:ILE:HD12	36:BQ:95:HIS:ND1	2.28	0.48
18:B3:449:A:OP2	18:B3:1306:U:O4'	2.31	0.48
18:B3:449:A:OP1	23:BD:46:ARG:N	2.43	0.48
23:BD:151:VAL:CG2	23:BD:248:ILE:HG12	2.42	0.48
23:BD:214:ILE:N	23:BD:214:ILE:HD13	2.18	0.48
23:BD:218:LEU:O	23:BD:224:VAL:HG11	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:180:VAL:HG11	23:BD:223:GLY:N	2.28	0.48
23:BD:228:ASN:C	23:BD:232:LEU:HD22	2.33	0.48
34:BO:83:VAL:CG2	34:BO:103:ALA:HB1	2.43	0.48
34:BO:32:LEU:HD13	34:BO:32:LEU:C	2.33	0.48
41:BV:76:LYS:N	41:BV:76:LYS:HZ3	2.10	0.48
18:B3:643:A:OP2	18:B3:1354:G:H3'	2.13	0.48
23:BD:57:HIS:C	23:BD:83:ARG:HD3	2.33	0.48
18:B3:1358:A:C1'	23:BD:92:MET:HG3	2.41	0.48
21:BB:122:ARG:HG3	21:BB:123:GLY:N	2.27	0.48
21:BB:149:LEU:CG	21:BB:153:ALA:HB3	2.42	0.48
21:BB:157:ILE:CD1	21:BB:161:ALA:HB2	2.42	0.48
21:BB:18:HIS:CE1	21:BB:189:ARG:HG3	2.48	0.48
25:BF:168:ILE:HG12	25:BF:177:ILE:H	1.76	0.48
25:BF:152:PHE:HB2	25:BF:200:PHE:HB2	1.91	0.48
25:BF:114:THR:HB	25:BF:202:TRP:CD1	2.49	0.48
25:BF:221:HIS:HA	25:BF:228:PHE:CG	2.46	0.48
1:AA:254:G:HO2'	1:AA:255:G:H5'	1.76	0.48
18:B3:2300:A:H4'	18:B3:2301:A:O5'	2.12	0.48
18:B3:1206:C:H2'	18:B3:1207:A:O5'	2.04	0.48
18:B3:2821:C:OP1	22:BC:141:ALA:HB2	2.13	0.48
18:B3:2837:U:H4'	22:BC:332:LYS:HD2	1.95	0.48
22:BC:194:ALA:O	22:BC:195:ARG:HB2	2.13	0.48
22:BC:286:LYS:HA	22:BC:319:ASP:HA	1.95	0.48
18:B3:2898:G:P	22:BC:312:HIS:O	2.71	0.48
22:BC:316:ILE:CG2	22:BC:320:PHE:CE1	2.94	0.48
22:BC:279:HIS:HE1	22:BC:327:ILE:HG12	1.76	0.48
22:BC:56:VAL:CG1	22:BC:69:ARG:HG2	2.42	0.48
37:BR:83:LYS:HA	37:BR:83:LYS:HZ3	1.79	0.48
18:B3:1708:C:O4'	35:BP:82:GLY:HA3	2.12	0.48
18:B3:166:A:N6	41:BV:28:PRO:HB2	2.28	0.48
29:BJ:96:SER:HB2	29:BJ:101:PHE:HE2	1.78	0.48
18:B3:2216:A:H4'	18:B3:2217:U:OP1	2.13	0.48
18:B3:1673:U:C5'	39:BT:110:ASN:O	2.61	0.48
39:BT:61:VAL:O	39:BT:85:VAL:HG12	2.12	0.48
14:AN:30:VAL:HG22	14:AN:31:ARG:N	2.26	0.48
3:AB:89:ALA:HB3	3:AB:96:PRO:HG3	1.94	0.48
5:AD:103:ASP:O	5:AD:104:PHE:HB2	2.13	0.48
1:AA:63:C:O4'	1:AA:385:C:H1'	2.13	0.48
2:AT:110:ASP:O	2:AT:111:PHE:HB2	2.13	0.48
27:BH:160:ASP:HA	27:BH:163:GLN:HG2	1.95	0.48
27:BH:170:LYS:CE	27:BH:175:PHE:CE1	2.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:8:GLN:NE2	27:BH:8:GLN:HA	2.28	0.48
1:AA:217:C:O2'	1:AA:218:C:H5'	2.13	0.48
1:AA:218:C:H2'	1:AA:219:C:C6	2.48	0.48
43:BW:26:LYS:HG3	43:BW:29:PRO:HG2	1.95	0.48
18:B3:2381:C:H2'	18:B3:2382:A:C8	2.48	0.48
18:B3:2460:A:P	46:BZ:66:LYS:HZ1	2.34	0.48
1:AA:21:G:H5'	1:AA:884:U:H4'	1.95	0.48
18:B3:905:C:H5'	41:BV:11:ARG:NH2	2.24	0.48
41:BV:110:LYS:NZ	41:BV:127:ARG:HH21	2.11	0.48
1:AA:1504:G:OP1	1:AA:1507:A:C8	2.66	0.48
1:AA:123:C:O2'	1:AA:289:G:C1'	2.61	0.48
11:AK:26:PHE:CD1	11:AK:41:VAL:HG12	2.48	0.48
11:AK:47:VAL:CB	11:AK:52:ASP:CB	2.91	0.48
18:B3:2726:U:O2	18:B3:2749:U:O5'	2.30	0.48
18:B3:1361:C:C4	23:BD:89:PHE:HA	2.44	0.48
23:BD:154:ASP:O	23:BD:155:LEU:HB3	2.13	0.48
5:AD:137:GLY:O	5:AD:138:LYS:HB2	2.13	0.48
6:AE:80:MET:O	6:AE:80:MET:HE1	2.13	0.48
6:AE:135:VAL:HG22	6:AE:136:ILE:N	2.28	0.48
18:B3:1461:U:H2'	18:B3:1462:C:C6	2.48	0.48
1:AA:1296:C:O2'	13:AM:54:LEU:CA	2.59	0.48
1:AA:1318:A:H2	17:AS:82:ASN:CB	1.89	0.48
1:AA:958:A:C2	17:AS:102:PHE:CG	2.75	0.48
1:AA:1301:U:H5''	13:AM:30:TYR:HA	1.86	0.48
1:AA:1223:C:C5'	17:AS:100:LYS:NZ	2.76	0.48
42:B0:18:LYS:C	42:B0:32:TRP:HD1	2.17	0.48
18:B3:629:A:H2'	18:B3:630:A:O4'	2.13	0.48
18:B3:2387:U:O3'	36:BQ:88:ARG:CA	2.59	0.48
18:B3:2329:C:OP1	19:B4:46:C:H4'	2.14	0.48
19:B4:11:A:C8	24:BE:17:GLN:HA	2.46	0.48
24:BE:208:MET:HG2	24:BE:211:LEU:N	2.17	0.48
36:BQ:7:TYR:O	36:BQ:55:LYS:HE3	2.14	0.48
33:BN:88:LYS:CD	33:BN:89:PHE:CD2	2.95	0.48
23:BD:181:LEU:HD22	23:BD:183:SER:OG	2.13	0.48
18:B3:1360:C:C1'	23:BD:88:ALA:HB3	2.43	0.48
31:BL:82:LYS:CA	31:BL:82:LYS:HE2	2.41	0.48
45:BY:21:CYS:HB2	45:BY:38:TYR:OH	2.13	0.48
30:BK:20:GLY:HA3	30:BK:54:LYS:CE	2.39	0.48
18:B3:1164:U:C5	30:BK:49:ALA:O	2.64	0.48
41:BV:63:GLN:H	41:BV:66:HIS:HB2	1.77	0.48
18:B3:2468:A:H2	46:BZ:54:LYS:CB	1.73	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(D):U:O2	16:AQ:111:SER:CA	2.61	0.48
12:AL:142:LYS:CG	12:AL:143:PRO:HD3	2.43	0.48
18:B3:2757:A:OP1	22:BC:364:PHE:CA	2.53	0.48
22:BC:76:THR:H	22:BC:326:CYS:HB3	1.78	0.48
28:BI:61:SER:O	28:BI:64:ALA:HB3	2.12	0.48
28:BI:66:GLU:N	28:BI:69:ARG:HG2	2.28	0.48
37:BR:11:PHE:HE2	37:BR:121:GLU:HG3	1.75	0.48
18:B3:2713:G:OP1	37:BR:45:ARG:N	2.46	0.48
26:BG:124:ALA:O	26:BG:125:SER:HB2	2.13	0.48
26:BG:162:VAL:O	26:BG:162:VAL:HG22	2.12	0.48
26:BG:214:VAL:HG23	26:BG:215:SER:N	2.28	0.48
31:BL:69:ASN:HB2	31:BL:93:TYR:CE2	2.48	0.48
18:B3:1805:G:H22	18:B3:2882:G:C2'	2.22	0.48
18:B3:2737:C:P	35:BP:61:ARG:HB2	2.53	0.48
18:B3:1801:A:O5'	35:BP:88:LEU:HD11	2.12	0.48
18:B3:2466:G:H3'	41:BV:38:HIS:CD2	2.48	0.48
18:B3:2334:C:H5''	29:BJ:111:LEU:CA	2.43	0.48
29:BJ:16:LEU:N	29:BJ:70:VAL:HG21	2.28	0.48
18:B3:2220:C:H4'	20:BA:211:GLY:C	2.33	0.48
18:B3:1676:G:O5'	39:BT:113:VAL:HG23	2.13	0.48
1:AA:403:C:C5'	1:AA:620:C:O2	2.60	0.48
8:AH:25:LEU:HD22	8:AH:52:ILE:HD13	1.95	0.48
8:AH:26:ILE:CD1	8:AH:37:LEU:HD21	2.42	0.48
6:AE:153:LEU:HD22	8:AH:98:PHE:HD1	1.78	0.48
2:AT:465:LYS:HG2	2:AT:515:ASP:N	2.28	0.48
18:B3:1745:G:H5''	37:BR:22:ILE:CG1	2.40	0.48
18:B3:1226:G:C5'	18:B3:1246:A:H61	2.23	0.48
27:BH:129:ARG:HG3	27:BH:153:ASP:C	2.34	0.48
27:BH:128:VAL:HG12	27:BH:129:ARG:N	2.28	0.48
35:BP:22:TRP:CA	35:BP:51:LYS:HD2	2.43	0.48
43:BW:61:ARG:CG	43:BW:62:GLY:H	2.25	0.48
43:BW:73:ARG:NH1	43:BW:73:ARG:HA	2.28	0.48
46:BZ:24:VAL:HG12	46:BZ:71:LEU:CD1	2.43	0.48
18:B3:2457:U:H4'	46:BZ:83:THR:HA	1.94	0.48
1:AA:1377:A:N6	7:AG:76:TYR:HD2	2.11	0.48
18:B3:2692:G:H8	18:B3:2693:U:H5	1.61	0.48
11:AK:47:VAL:HG12	11:AK:52:ASP:CA	2.43	0.48
11:AK:49:ALA:O	11:AK:53:GLU:HG3	2.13	0.48
11:AK:88:THR:CG2	11:AK:94:GLY:HA3	2.44	0.48
24:BE:222:LEU:O	24:BE:222:LEU:HD13	2.13	0.48
5:AD:69:ARG:HB2	5:AD:79:ARG:HD3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BS:44:LYS:CE	38:BS:44:LYS:HA	2.36	0.48
31:BL:30:ARG:NH1	31:BL:31:GLN:H	2.11	0.48
5:AD:53:ARG:HG2	5:AD:54:ARG:N	2.25	0.48
3:AB:114:PHE:HD2	3:AB:115:LYS:O	1.96	0.48
2:AT:386:VAL:HG11	2:AT:437:MET:CE	2.43	0.48
1:AA:1057:G:C2'	1:AA:1058:G:H5'	2.44	0.48
1:AA:1181:G:H4'	1:AA:1184:G:H5'	1.95	0.48
19:B4:102:G:O2'	19:B4:103:A:H5'	2.13	0.48
18:B3:116:G:H5'	18:B3:129:A:H2'	1.94	0.48
42:B0:16:LYS:HG2	42:B0:16:LYS:O	2.13	0.48
10:AJ:56:VAL:HG12	10:AJ:90:TYR:HB2	1.91	0.48
18:B3:2415:A:O4'	24:BE:39:GLN:HG2	2.08	0.48
19:B4:7:G:OP2	24:BE:29:ASP:O	2.32	0.48
36:BQ:18:ASP:H	36:BQ:20:ARG:HH22	1.61	0.48
33:BN:17:ARG:HB3	33:BN:145:ILE:HG13	1.95	0.48
42:B0:82:LEU:HB2	42:B0:85:LEU:CD2	2.43	0.48
18:B3:517:U:O2'	18:B3:1319:G:C2	2.66	0.48
23:BD:185:LYS:NZ	23:BD:185:LYS:HA	2.28	0.48
34:BO:126:GLN:HA	34:BO:126:GLN:NE2	2.25	0.48
18:B3:1861:C:H1'	21:BB:9:LYS:CG	2.43	0.48
21:BB:44:VAL:HG12	21:BB:44:VAL:O	2.12	0.48
25:BF:177:ILE:HD12	25:BF:178:LEU:N	2.27	0.48
18:B3:67:A:H1'	39:BT:60:LYS:CE	2.44	0.48
22:BC:121:TRP:CG	22:BC:123:LYS:HG2	2.48	0.48
22:BC:32:PRO:HG3	22:BC:43:THR:CG2	2.43	0.48
28:BI:79:VAL:HG21	28:BI:84:ALA:HB3	1.94	0.48
28:BI:94:PHE:N	28:BI:94:PHE:CD1	2.81	0.48
37:BR:57:MET:HE2	37:BR:126:TRP:HH2	1.77	0.48
26:BG:125:SER:HA	26:BG:128:PRO:HB2	1.96	0.48
26:BG:135:LEU:C	26:BG:138:VAL:HG12	2.34	0.48
26:BG:159:ILE:HG22	26:BG:161:LEU:HG	1.93	0.48
31:BL:125:THR:HB	31:BL:126:TYR:HD1	1.78	0.48
31:BL:18:LEU:HD12	31:BL:21:LEU:CD2	2.28	0.48
18:B3:1801:A:P	35:BP:88:LEU:HD11	2.52	0.48
18:B3:166:A:N6	41:BV:28:PRO:C	2.65	0.48
29:BJ:31:ARG:C	29:BJ:33:SER:H	2.16	0.48
18:B3:2214:A:N3	20:BA:106:LYS:HE3	2.28	0.48
20:BA:147:LYS:O	20:BA:151:VAL:HG22	2.13	0.48
20:BA:65:ILE:CD1	20:BA:151:VAL:HG23	2.43	0.48
4:AC:20:LEU:HD11	4:AC:83:ILE:HD13	1.95	0.48
4:AC:45:THR:OG1	4:AC:83:ILE:HG12	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:140:ILE:HG23	5:AD:140:ILE:O	2.13	0.48
5:AD:91:LYS:CA	6:AE:174:GLY:CA	2.72	0.48
8:AH:118:LYS:O	8:AH:119:HIS:HB2	2.13	0.48
8:AH:97:GLN:HB2	8:AH:127:PHE:HZ	1.75	0.48
1:AA:551:U:H3	12:AL:47:SER:HG	1.52	0.48
2:AT:463:LEU:CA	2:AT:513:LYS:CE	2.70	0.48
18:B3:2596:A:O2'	37:BR:72:LYS:NZ	2.46	0.48
18:B3:1117:A:H8	18:B3:1226:G:C8	1.88	0.48
27:BH:75:VAL:CB	27:BH:78:MET:HE2	2.42	0.48
43:BW:16:HIS:CG	43:BW:30:ARG:HG3	2.48	0.48
18:B3:2430:A:N6	46:BZ:59:LYS:HE2	2.24	0.48
1:AA:359:U:H5''	2:AT:392:GLY:N	2.28	0.48
1:AA:292:G:H1'	1:AA:608:A:C5	1.68	0.48
1:AA:39:G:N1	5:AD:20:GLU:OE1	2.46	0.48
18:B3:220:C:O2	41:BV:54:LYS:CD	2.61	0.48
11:AK:12:VAL:CG2	11:AK:76:THR:HB	2.43	0.48
34:BO:95:GLU:HG3	34:BO:97:PRO:CG	2.42	0.48
1:AA:1106:G:C5'	4:AC:155:PHE:CE2	2.85	0.48
18:B3:291:C:H2'	18:B3:292:G:O4'	2.12	0.48
18:B3:1127:C:OP1	18:B3:1128:U:H5	1.96	0.48
4:AC:131:LYS:HZ2	4:AC:191:PRO:HD2	1.78	0.48
6:AE:79:VAL:CG2	6:AE:124:ILE:HD11	2.35	0.48
18:B3:1209:C:O2'	18:B3:1210:G:H5'	2.13	0.48
22:BC:166:ARG:HD2	22:BC:167:LYS:N	2.19	0.48
15:AO:72:ARG:O	15:AO:75:LYS:HG3	2.13	0.48
20:BA:70:ASP:OD1	20:BA:87:VAL:HB	2.12	0.48
1:AA:647:C:H2'	1:AA:648:A:H8	1.77	0.48
20:BA:21:ASN:O	20:BA:22:GLU:HB2	2.11	0.48
18:B3:438:C:O2'	18:B3:439:A:OP1	2.30	0.48
18:B3:1568:G:O2'	18:B3:1569:U:H5'	2.12	0.48
10:AJ:97:VAL:HG22	10:AJ:98:GLN:OE1	2.13	0.48
24:BE:112:ARG:HG3	24:BE:113:LEU:H	1.78	0.48
24:BE:207:TYR:CE2	24:BE:208:MET:SD	3.06	0.48
24:BE:46:THR:HG23	24:BE:46:THR:O	2.14	0.48
24:BE:41:LYS:HB3	24:BE:49:TYR:CD2	2.48	0.48
24:BE:80:SER:O	24:BE:81:HIS:HB2	2.14	0.48
36:BQ:43:LYS:CE	36:BQ:96:ILE:HD12	2.43	0.48
36:BQ:72:VAL:HG13	36:BQ:72:VAL:O	2.13	0.48
18:B3:1370:G:C5'	33:BN:63:ASN:H	2.11	0.48
18:B3:492:C:C4'	33:BN:103:ALA:HB2	2.44	0.48
18:B3:1277:C:C5'	34:BO:34:THR:CG2	2.90	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:190:LYS:HD2	23:BD:193:TYR:CZ	2.49	0.48
18:B3:635:A:P	23:BD:91:ASN:HD21	2.36	0.48
23:BD:64:TRP:NE1	23:BD:70:VAL:HG21	2.28	0.48
18:B3:1652:C:H6	21:BB:173:ARG:NH1	1.99	0.48
47:B9:32:GLN:CG	47:B9:69:THR:H	2.21	0.48
18:B3:949:U:C4'	36:BQ:100:LYS:HB2	2.38	0.48
18:B3:1733:A:H4'	22:BC:226:GLU:CB	2.28	0.48
22:BC:101:LEU:CD1	22:BC:145:ARG:HD3	2.43	0.48
18:B3:1733:A:O4'	22:BC:225:PHE:HD1	1.70	0.48
22:BC:46:LEU:HD23	22:BC:336:THR:CG2	2.44	0.48
18:B3:2819:C:C1'	22:BC:99:ARG:O	2.57	0.48
28:BI:105:CYS:CB	28:BI:115:MET:HE1	2.43	0.48
37:BR:86:ARG:HB2	37:BR:87:ARG:NH2	2.29	0.48
18:B3:2720:C:O2'	38:BS:19:THR:HG23	2.13	0.48
38:BS:23:ARG:HG3	38:BS:28:ILE:HB	1.94	0.48
38:BS:23:ARG:CG	38:BS:28:ILE:HG13	2.44	0.48
31:BL:168:LYS:HD2	31:BL:168:LYS:C	2.34	0.48
31:BL:185:GLY:HA2	31:BL:188:LYS:HE3	1.94	0.48
31:BL:67:ARG:HB2	31:BL:67:ARG:NH1	2.20	0.48
18:B3:898:G:O5'	41:BV:25:ARG:HD2	2.13	0.48
18:B3:2333:G:N2	29:BJ:114:LYS:N	2.52	0.48
39:BT:114:ARG:HA	39:BT:114:ARG:HD2	1.68	0.48
10:AJ:69:LYS:HD3	14:AN:43:ARG:C	2.11	0.48
10:AJ:69:LYS:HB3	14:AN:39:ARG:NE	2.22	0.48
5:AD:108:ARG:HH21	5:AD:144:PRO:HB2	1.77	0.48
5:AD:110:GLN:HE22	5:AD:126:ARG:NH2	2.11	0.48
5:AD:86:LEU:HD12	5:AD:96:VAL:CG1	2.43	0.48
1:AA:33:A:H5''	1:AA:365:U:C5'	2.41	0.48
1:AA:551:U:HO2'	12:AL:107:PHE:HD2	1.61	0.48
1:AA:25:C:C5'	12:AL:109:ARG:NE	2.77	0.48
1:AA:1419:G:C2	18:B3:1990:C:H5'	2.30	0.48
27:BH:123:ILE:N	27:BH:123:ILE:HD12	2.29	0.48
32:BM:107:ILE:CG1	32:BM:108:PRO:HD2	2.44	0.48
32:BM:45:GLU:HG3	32:BM:133:LYS:HG2	1.95	0.48
1:AA:143:A:H4'	1:AA:199:G:C3'	2.43	0.48
18:B3:1401:G:C5'	43:BW:59:TRP:HB3	2.29	0.48
5:AD:24:LEU:HG	5:AD:28:LEU:HD21	1.95	0.48
5:AD:59:LEU:HG	5:AD:63:ASP:OD2	2.13	0.48
1:AA:1483:A:C3'	18:B3:2001:G:N3	2.75	0.48
1:AA:1501:C:H5'	1:AA:1508:G:O2'	2.07	0.48
1:AA:123:C:O3'	1:AA:312:C:H1'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:15:VAL:HG12	11:AK:16:ALA:N	2.28	0.48
21:BB:204:ASN:HA	21:BB:211:GLY:HA2	1.96	0.48
32:BM:90:LYS:CD	32:BM:90:LYS:H	2.26	0.48
32:BM:84:ARG:HD3	32:BM:98:LEU:CD1	2.44	0.48
32:BM:26:LEU:HD21	32:BM:98:LEU:N	2.28	0.48
1:AA:555:C:H2'	1:AA:556:C:C6	2.48	0.48
1:AA:624:C:O2'	1:AA:625:G:H5'	2.13	0.48
18:B3:2903:C:O2'	18:B3:2904:U:H5'	2.12	0.48
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.78	0.48
18:B3:958:G:H2'	18:B3:959:C:C6	2.49	0.48
1:AA:1302:U:C5	13:AM:47:CYS:CB	2.96	0.48
1:AA:1302:U:O4'	13:AM:44:ASN:HA	2.13	0.48
1:AA:1314:C:N4	17:AS:48:GLY:C	2.66	0.48
1:AA:1320:C:C6	17:AS:117:GLY:N	2.71	0.48
1:AA:1302:U:OP2	13:AM:43:SER:O	2.30	0.48
17:AS:56:PHE:CD1	17:AS:80:MET:SD	3.06	0.48
17:AS:81:ARG:CB	17:AS:96:ILE:HD11	2.43	0.48
17:AS:94:VAL:O	17:AS:94:VAL:HG13	2.12	0.48
18:B3:621:C:OP2	42:B0:38:ILE:CG2	2.59	0.48
1:AA:1126:U:H1'	1:AA:1280:A:H62	0.34	0.48
9:AI:47:VAL:HG22	9:AI:77:VAL:HG13	1.95	0.48
10:AJ:23:ARG:HG2	10:AJ:92:ASP:OD1	2.14	0.48
18:B3:2326:U:H2'	18:B3:2327:A:C8	2.49	0.48
24:BE:75:LEU:CD1	24:BE:109:THR:HG23	2.41	0.48
24:BE:12:TYR:CD2	24:BE:13:SER:N	2.81	0.48
24:BE:151:GLN:CD	24:BE:159:VAL:HG21	2.34	0.48
24:BE:42:ALA:N	24:BE:49:TYR:CD2	2.81	0.48
24:BE:55:PHE:CE2	24:BE:60:ILE:HD12	2.49	0.48
33:BN:124:GLN:HA	33:BN:124:GLN:NE2	2.29	0.48
33:BN:26:LYS:O	33:BN:27:ASN:HB2	2.14	0.48
18:B3:751:U:H5''	23:BD:36:THR:HG21	1.86	0.48
18:B3:111:C:C3'	18:B3:119:A:H62	2.26	0.48
45:BY:31:LYS:HZ2	45:BY:31:LYS:H	1.60	0.48
30:BK:80:LEU:HD13	30:BK:112:ILE:HG23	1.95	0.48
21:BB:240:ARG:NH1	21:BB:241:ARG:HH22	2.11	0.48
25:BF:115:PHE:CB	25:BF:194:PHE:CE2	2.95	0.48
25:BF:146:LEU:HD13	25:BF:239:VAL:HG22	1.94	0.48
1:AA:190(D):U:C2	16:AQ:111:SER:HB2	2.45	0.48
1:AA:190(C):C:H41	16:AQ:112:PRO:CG	2.26	0.48
22:BC:163:THR:HG23	22:BC:177:LEU:HD21	1.96	0.48
22:BC:210:GLN:OE1	22:BC:352:GLU:HA	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:287:GLY:HA3	22:BC:317:LYS:C	2.34	0.48
28:BI:101:LYS:HB3	28:BI:118:ALA:HB1	1.95	0.48
31:BL:124:SER:O	31:BL:125:THR:HG23	2.14	0.48
31:BL:53:LYS:HD2	31:BL:53:LYS:H	1.77	0.48
18:B3:1807:U:O5'	18:B3:2884:G:C2'	2.62	0.48
18:B3:2886:C:O2'	18:B3:2887:G:H5'	2.14	0.48
35:BP:86:ALA:C	35:BP:87:ARG:HG3	2.33	0.48
18:B3:2336:G:O5'	29:BJ:103:PHE:HE2	1.95	0.48
20:BA:157:PHE:CZ	20:BA:165:LEU:CD2	2.94	0.48
20:BA:155:ILE:CG2	20:BA:167:VAL:HG13	2.39	0.48
1:AA:552:U:C2'	12:AL:47:SER:C	2.50	0.48
18:B3:1120:U:C6	18:B3:1120:U:H5''	2.48	0.48
1:AA:921:U:H5'	1:AA:1081:G:C5'	2.44	0.48
43:BW:28:ALA:CB	43:BW:59:TRP:CG	2.96	0.48
18:B3:2430:A:H61	46:BZ:59:LYS:CE	2.24	0.48
40:BU:57:LEU:HD11	40:BU:105:VAL:HG21	1.93	0.48
41:BV:108:TYR:N	41:BV:108:TYR:CD1	2.81	0.48
41:BV:118:PRO:C	41:BV:120:VAL:H	2.16	0.48
41:BV:90:LEU:HD13	41:BV:90:LEU:O	2.13	0.48
18:B3:73:C:OP1	44:BX:5:LYS:N	2.45	0.48
6:AE:127:GLY:HA2	6:AE:130:ILE:HG22	1.94	0.48
4:AC:101:ALA:HA	4:AC:185:VAL:CG2	2.44	0.48
32:BM:91:THR:O	32:BM:92:ALA:HB3	2.13	0.48
24:BE:197:SER:HB3	24:BE:223:PHE:CD1	2.49	0.48
7:AG:86:CYS:CB	7:AG:87:PRO:HD3	2.32	0.48
42:B0:64:LYS:HE3	42:B0:65:PHE:HE1	1.71	0.48
21:BB:144:LYS:HD2	21:BB:144:LYS:N	2.29	0.48
34:BO:38:ARG:CZ	34:BO:38:ARG:HA	2.42	0.48
2:AT:216:HIS:HB3	2:AT:218:TRP:CD1	2.49	0.48
18:B3:1000:C:H2'	18:B3:1001:U:O4'	2.13	0.48
1:AA:743:U:H2'	1:AA:744:C:H6	1.78	0.48
18:B3:101:C:O2'	18:B3:102:A:H5'	2.13	0.48
18:B3:1511:U:O2'	18:B3:1512:G:H5'	2.13	0.48
18:B3:1624:A:O2'	18:B3:1625:U:P	2.71	0.48
1:AA:1298:C:H3'	13:AM:57:ARG:HH21	1.72	0.48
17:AS:109:PRO:HA	17:AS:112:LEU:HD11	1.92	0.48
9:AI:92:HIS:HB2	9:AI:95:TYR:CD2	2.48	0.48
9:AI:97:ASP:HA	9:AI:102:ASN:HB3	1.94	0.48
18:B3:2415:A:H2'	18:B3:2416:G:H5'	1.95	0.48
19:B4:117:G:O2'	24:BE:69:ILE:CB	2.61	0.48
19:B4:14:G:C2	24:BE:12:TYR:CA	2.76	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2388:C:OP1	36:BQ:88:ARG:CD	2.61	0.48
33:BN:63:ASN:HD22	33:BN:63:ASN:H	1.61	0.48
33:BN:74:GLU:HG2	33:BN:75:PHE:N	2.29	0.48
42:B0:79:VAL:HG12	42:B0:79:VAL:O	2.13	0.48
23:BD:177:LEU:HA	23:BD:180:VAL:CG2	2.43	0.48
21:BB:113:SER:HB2	21:BB:164:VAL:HG21	1.96	0.48
21:BB:171:GLY:N	47:B9:66:GLY:C	2.67	0.48
21:BB:232:GLN:C	21:BB:233:LYS:HG3	2.34	0.48
21:BB:42:GLY:HA2	21:BB:62:PHE:O	2.13	0.48
21:BB:45:LYS:O	21:BB:46:GLN:HG2	2.14	0.48
21:BB:72:GLU:HG3	21:BB:72:GLU:O	2.14	0.48
21:BB:73:GLU:O	21:BB:73:GLU:HG3	2.13	0.48
21:BB:98:GLY:H	21:BB:165:ILE:HG21	1.77	0.48
25:BF:142:THR:O	25:BF:142:THR:HG22	2.14	0.48
18:B3:487:G:P	40:BU:90:VAL:HB	2.48	0.48
44:BX:21:LEU:HD23	44:BX:22:VAL:H	1.76	0.48
18:B3:72:C:P	44:BX:49:LYS:HE2	2.53	0.48
18:B3:2073:G:OP2	18:B3:2490:A:C8	2.62	0.48
18:B3:2912:C:H1'	22:BC:126:LYS:HB2	1.11	0.48
22:BC:87:GLY:CA	22:BC:104:VAL:HG21	2.42	0.48
22:BC:112:GLU:OE1	22:BC:113:VAL:HG23	2.12	0.48
22:BC:16:LEU:HA	22:BC:17:PRO:C	2.33	0.48
28:BI:51:HIS:C	28:BI:52:LEU:HD22	2.34	0.48
28:BI:59:GLN:O	28:BI:59:GLN:HG2	2.12	0.48
37:BR:95:PHE:CG	38:BS:21:PHE:CB	2.94	0.48
38:BS:23:ARG:HD2	38:BS:28:ILE:CG1	2.44	0.48
18:B3:2242:U:O2'	18:B3:2243:C:C6	2.63	0.48
26:BG:113:ALA:CB	26:BG:119:LYS:HB3	2.32	0.48
26:BG:203:ARG:HG2	26:BG:203:ARG:O	2.14	0.48
31:BL:105:VAL:CG1	31:BL:133:LEU:HD11	2.43	0.48
18:B3:1597:A:C5'	35:BP:95:ILE:HG21	2.44	0.48
18:B3:1806:G:H2'	18:B3:2884:G:H1'	1.94	0.48
18:B3:2338:G:O5'	29:BJ:126:PHE:HB3	2.13	0.48
18:B3:2336:G:OP1	29:BJ:103:PHE:HE2	1.96	0.48
29:BJ:90:LEU:HD23	29:BJ:90:LEU:O	2.13	0.48
20:BA:151:VAL:HA	20:BA:158:GLN:CG	2.43	0.48
3:AB:122:VAL:HG21	3:AB:128:ASP:CB	2.44	0.48
5:AD:82:ARG:O	5:AD:86:LEU:HD23	2.14	0.48
6:AE:216:ALA:N	8:AH:129:TYR:OH	2.41	0.48
8:AH:100:TYR:HA	8:AH:112:HIS:CD2	2.49	0.48
1:AA:552:U:H5'	12:AL:105:ALA:HB1	1.89	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1140:C:O2'	18:B3:1141:U:H5'	2.14	0.48
27:BH:125:ASN:O	27:BH:126:VAL:HG13	2.13	0.48
27:BH:92:TYR:CB	27:BH:179:ILE:HG22	2.42	0.48
27:BH:41:ILE:HG13	32:BM:125:VAL:HG22	1.95	0.48
32:BM:58:ARG:HD3	32:BM:60:ALA:N	2.29	0.48
35:BP:14:VAL:HG21	35:BP:22:TRP:CH2	2.35	0.48
1:AA:792:A:H4'	1:AA:793:U:C5'	2.40	0.48
1:AA:16:A:O2'	1:AA:17:U:H5'	2.14	0.48
1:AA:919:A:H4'	1:AA:1079:G:N1	2.25	0.48
1:AA:293:G:O2'	1:AA:609:A:C2	2.42	0.48
18:B3:730:G:H5'	41:BV:132:LEU:CD1	2.43	0.48
18:B3:1154:A:H2'	18:B3:1156:C:C1'	2.25	0.48
18:B3:1885:A:C2	47:B9:17:TYR:HD1	2.32	0.48
1:AA:1341:U:C6	9:AI:141:TYR:HE1	2.27	0.48
45:BY:36:CYS:HB3	45:BY:44:ARG:H	1.78	0.48
3:AB:27:ASN:O	3:AB:148:LEU:HD23	2.13	0.48
21:BB:203:MET:O	21:BB:204:ASN:HB3	2.13	0.48
6:AE:115:LYS:HB3	6:AE:126:ALA:HB3	1.96	0.48
4:AC:136:VAL:O	4:AC:183:ILE:HD12	2.14	0.48
20:BA:69:GLY:HA2	20:BA:116:LEU:CD1	2.44	0.48
18:B3:508:A:H2'	18:B3:509:A:H5''	1.95	0.48
1:AA:780:A:C2	1:AA:801:U:C5	3.02	0.48
18:B3:2353:A:H4'	18:B3:2354:A:O5'	2.14	0.48
18:B3:322:G:O2'	18:B3:323:C:H5'	2.14	0.48
18:B3:352:A:H2'	18:B3:353:G:C8	2.49	0.48
1:AA:1219:U:H3	17:AS:77:ARG:HG3	1.79	0.48
1:AA:1301:U:O2'	13:AM:54:LEU:HD23	2.14	0.48
1:AA:1319:A:C5'	17:AS:49:MET:SD	3.02	0.48
1:AA:1318:A:N6	17:AS:56:PHE:HZ	2.10	0.48
17:AS:90:ILE:HD11	17:AS:112:LEU:CD2	2.40	0.48
1:AA:1151:A:H62	10:AJ:57:ARG:NH2	2.10	0.48
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.47	0.48
9:AI:100:SER:CA	9:AI:116:LEU:HD13	2.43	0.48
19:B4:34:A:C2	24:BE:185:PHE:CA	2.96	0.48
24:BE:146:LEU:HD13	24:BE:163:LEU:CG	2.44	0.48
23:BD:125:ILE:O	23:BD:126:ALA:HB2	2.14	0.48
23:BD:135:LEU:HA	23:BD:139:HIS:HD1	1.78	0.48
18:B3:764:C:H1'	23:BD:86:GLN:HB2	0.49	0.48
45:BY:18:CYS:SG	45:BY:38:TYR:CZ	3.07	0.48
18:B3:1167:G:C1'	30:BK:111:GLU:CA	2.92	0.48
30:BK:85:LEU:CD2	30:BK:87:GLU:HB2	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:179:LEU:CA	47:B9:20:SER:HA	2.38	0.48
21:BB:51:SER:HA	21:BB:53:ARG:NH2	2.29	0.48
25:BF:105:LEU:CD2	25:BF:105:LEU:H	2.26	0.48
44:BX:19:SER:O	44:BX:20:GLN:HB2	2.13	0.48
44:BX:34:GLN:O	44:BX:37:SER:HB3	2.13	0.48
18:B3:2681:A:C6	18:B3:2714:U:H4'	2.48	0.48
18:B3:2826:G:N9	22:BC:124:SER:CB	2.75	0.48
22:BC:243:ARG:CD	22:BC:243:ARG:H	2.26	0.48
22:BC:92:VAL:O	22:BC:93:GLU:HB3	2.14	0.48
28:BI:58:GLU:HB3	28:BI:129:VAL:H	1.78	0.48
28:BI:70:ILE:HG13	28:BI:70:ILE:O	2.13	0.48
37:BR:54:LEU:CD2	37:BR:54:LEU:H	2.13	0.48
37:BR:92:PHE:CD1	38:BS:20:LEU:CD1	2.94	0.48
18:B3:2244:A:N6	18:B3:2257:G:N2	2.61	0.48
18:B3:381:G:O5'	31:BL:119:TRP:CZ3	2.66	0.48
26:BG:122:GLN:HE21	26:BG:188:LEU:CB	2.27	0.48
26:BG:163:VAL:HG13	26:BG:164:PHE:N	2.28	0.48
26:BG:143:GLU:HA	26:BG:172:MET:CE	2.43	0.48
31:BL:119:TRP:CD2	31:BL:119:TRP:N	2.77	0.48
31:BL:141:ILE:HD12	31:BL:142:ARG:HG2	1.95	0.48
31:BL:151:CYS:HA	31:BL:153:PRO:O	2.13	0.48
18:B3:1806:G:H4'	18:B3:2874:G:O4'	2.12	0.48
29:BJ:76:GLU:C	29:BJ:77:GLU:HG3	2.33	0.48
18:B3:1445:G:OP1	39:BT:69:GLU:HB2	2.10	0.48
18:B3:1448:A:H3'	39:BT:110:ASN:CB	2.44	0.48
3:AB:177:ALA:O	3:AB:181:LEU:HD23	2.13	0.48
3:AB:59:ALA:HA	3:AB:157:VAL:CG1	2.43	0.48
5:AD:134:ILE:HG22	5:AD:135:ALA:N	2.28	0.48
1:AA:11:G:N2	1:AA:525:C:H4'	2.24	0.48
1:AA:61:G:C3'	1:AA:386:C:H4'	2.43	0.48
18:B3:1119:G:H22	18:B3:1246:A:H2	1.51	0.48
27:BH:46:THR:CG2	27:BH:55:VAL:H	2.26	0.48
18:B3:1397:C:O2'	35:BP:23:LEU:CD2	2.62	0.48
18:B3:2437:A:O3'	46:BZ:14:LYS:CB	2.61	0.48
1:AA:1405:G:N1	1:AA:1518:A:C4	2.79	0.48
10:AJ:62:VAL:HG21	10:AJ:85:ARG:HH21	1.78	0.48
4:AC:122:VAL:CG1	4:AC:135:VAL:HG23	2.44	0.48
22:BC:143:ILE:O	22:BC:146:GLU:HG2	2.13	0.48
20:BA:53:LEU:HD22	20:BA:189:PHE:CG	2.48	0.48
5:AD:76:LEU:H	5:AD:76:LEU:CD2	2.27	0.48
18:B3:613:C:H2'	18:B3:614:U:C6	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:125:VAL:O	24:BE:125:VAL:HG13	2.12	0.48
18:B3:555:U:C6	18:B3:555:U:OP2	2.67	0.48
18:B3:1662:C:H2'	18:B3:1663:G:O4'	2.14	0.48
2:AT:520:THR:HA	2:AT:529:ILE:O	2.13	0.48
18:B3:1657:A:H2'	18:B3:1658:A:C8	2.49	0.48
28:BI:21:ARG:NH1	28:BI:21:ARG:HG2	2.28	0.48
13:AM:46:VAL:CG2	13:AM:84:TRP:CH2	2.97	0.48
18:B3:541:C:H5''	42:B0:15:LYS:H	1.79	0.48
19:B4:51:A:N3	24:BE:58:LYS:HD3	2.29	0.48
24:BE:65:ILE:CG2	24:BE:66:SER:N	2.76	0.48
36:BQ:92:ARG:HG3	36:BQ:93:VAL:N	2.29	0.48
33:BN:27:ASN:O	33:BN:86:SER:HB2	2.14	0.48
18:B3:1307:A:H2'	18:B3:1308:A:C8	2.49	0.48
18:B3:26:U:H3'	18:B3:1319:G:O2'	2.13	0.48
18:B3:449:A:C4'	18:B3:1306:U:C2	2.97	0.48
23:BD:235:LEU:HD12	23:BD:235:LEU:C	2.33	0.48
18:B3:890:C:O2	45:BY:48:TRP:HB2	2.13	0.48
30:BK:32:ILE:HG21	30:BK:62:LEU:HD12	1.96	0.48
21:BB:62:PHE:CD2	21:BB:63:ARG:N	2.82	0.48
18:B3:1286:A:P	25:BF:156:ASN:H	2.35	0.48
25:BF:166:ALA:O	25:BF:167:ILE:HG13	2.14	0.48
18:B3:1098:A:H5''	25:BF:217:ARG:CA	2.44	0.48
1:AA:255:G:H4'	16:AQ:80:HIS:HB3	1.96	0.48
18:B3:2290:U:H4'	18:B3:2291:A:OP1	2.12	0.48
22:BC:88:VAL:HG23	22:BC:158:ARG:O	2.14	0.48
22:BC:232:TRP:NE1	22:BC:234:THR:HB	2.29	0.48
22:BC:254:TRP:CZ3	22:BC:256:PRO:HB2	2.43	0.48
22:BC:357:TRP:HE3	38:BS:15:PRO:O	1.96	0.48
28:BI:102:MET:HE3	28:BI:112:GLN:NE2	2.29	0.48
28:BI:58:GLU:CB	28:BI:128:ARG:HB3	2.44	0.48
18:B3:1864:C:O2'	31:BL:71:LYS:HA	2.13	0.48
18:B3:2264:A:H2'	18:B3:2265:U:C6	2.49	0.48
31:BL:146:ARG:CZ	31:BL:146:ARG:HB3	2.43	0.48
18:B3:2738:G:H1'	35:BP:63:ARG:HB2	1.32	0.48
18:B3:2890:A:N1	38:BS:51:TRP:CA	2.71	0.48
29:BJ:74:LYS:O	29:BJ:78:ILE:HG13	2.14	0.48
39:BT:132:LEU:HD23	39:BT:133:ASP:H	1.78	0.48
8:AH:10:LEU:HB3	8:AH:77:ARG:HD2	1.96	0.48
1:AA:521:G:O2'	1:AA:522:C:H5'	2.14	0.48
27:BH:94:TYR:HB3	27:BH:177:ASP:CA	2.27	0.48
32:BM:129:LYS:O	32:BM:129:LYS:HD3	2.00	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:37:ALA:HB1	32:BM:79:PHE:HE1	1.79	0.48
18:B3:1383:U:HO2'	43:BW:29:PRO:C	2.16	0.48
35:BP:49:ILE:O	35:BP:49:ILE:HG22	2.13	0.48
35:BP:22:TRP:CE3	35:BP:51:LYS:N	2.82	0.48
43:BW:16:HIS:ND1	43:BW:30:ARG:HG3	2.29	0.48
18:B3:2854:A:P	22:BC:170:LEU:HD11	2.53	0.48
41:BV:6:LYS:CD	41:BV:6:LYS:H	2.27	0.48
1:AA:405:U:H3	5:AD:26:ALA:CA	2.26	0.48
44:BX:4:VAL:O	44:BX:5:LYS:HG3	2.14	0.48
18:B3:1773:G:N2	18:B3:1774:G:C8	2.82	0.48
1:AA:1442:G:H21	1:AA:1446:A:H3'	1.79	0.48
7:AG:173:LEU:HD11	7:AG:174:LEU:HD22	1.93	0.48
18:B3:284:C:H6	18:B3:284:C:OP2	1.95	0.48
4:AC:134:GLU:CB	4:AC:156:LEU:HD21	2.44	0.48
4:AC:62:GLY:O	4:AC:65:ILE:HG22	2.14	0.48
1:AA:781:A:H2'	1:AA:782:A:H5'	1.96	0.48
19:B4:103:A:H2'	19:B4:104:A:C8	2.48	0.48
1:AA:659:U:H2'	1:AA:660:G:O4'	2.14	0.48
1:AA:184:G:H2'	1:AA:185:A:H8	1.79	0.48
18:B3:1257:C:H2'	18:B3:1258:G:O4'	2.14	0.48
1:AA:222:U:H2'	1:AA:223:U:C6	2.49	0.48
1:AA:1301:U:H5''	13:AM:30:TYR:CA	2.37	0.48
1:AA:1330:U:C1'	13:AM:93:THR:HA	2.27	0.48
18:B3:541:C:C5'	42:B0:15:LYS:N	2.77	0.48
18:B3:618:G:H1'	42:B0:41:VAL:HG22	1.95	0.48
24:BE:102:GLY:HA2	24:BE:105:ILE:HG22	1.95	0.48
24:BE:64:ILE:HD11	24:BE:144:VAL:CG1	2.44	0.48
24:BE:146:LEU:HD13	24:BE:163:LEU:CB	2.44	0.48
19:B4:26:C:P	24:BE:81:HIS:CE1	3.06	0.48
36:BQ:74:VAL:HG12	36:BQ:75:ILE:N	2.29	0.48
1:AA:318:G:C2	1:AA:1434:A:H2	2.07	0.48
42:B0:78:ASN:CG	42:B0:79:VAL:H	2.17	0.48
23:BD:149:LEU:O	23:BD:149:LEU:HG	2.13	0.48
18:B3:1308:A:OP2	23:BD:202:ARG:NE	2.36	0.48
23:BD:34:VAL:CA	23:BD:234:LEU:HD21	2.40	0.48
30:BK:19:GLY:O	30:BK:50:THR:HG21	2.14	0.48
30:BK:64:ILE:HG22	30:BK:65:GLN:O	2.13	0.48
30:BK:64:ILE:CG2	30:BK:68:GLN:HA	2.44	0.48
21:BB:158:SER:HB2	21:BB:160:ASP:OD1	2.14	0.48
21:BB:115:VAL:HA	21:BB:162:ARG:CD	2.44	0.48
21:BB:224:ILE:HD13	21:BB:225:SER:N	2.24	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:79:GLU:HG3	21:BB:80:GLY:N	2.15	0.48
22:BC:92:VAL:CA	22:BC:101:LEU:HD21	2.43	0.48
18:B3:2656:G:H4'	22:BC:18:ARG:O	2.14	0.48
22:BC:208:PHE:CD2	22:BC:209:GLU:N	2.82	0.48
22:BC:320:PHE:O	22:BC:321:ILE:HD13	2.14	0.48
28:BI:102:MET:HE2	28:BI:112:GLN:C	2.34	0.48
28:BI:140:THR:HG22	28:BI:141:LYS:CD	2.35	0.48
37:BR:86:ARG:HD3	37:BR:86:ARG:H	1.79	0.48
26:BG:113:ALA:HB2	26:BG:119:LYS:HA	1.94	0.48
26:BG:115:VAL:HG11	26:BG:213:LEU:HB2	1.94	0.48
35:BP:116:LYS:CA	35:BP:119:TYR:CD1	2.92	0.48
18:B3:2352:G:C5	29:BJ:115:TYR:CE1	3.02	0.48
20:BA:51:GLY:N	20:BA:54:LYS:HB2	2.27	0.48
4:AC:20:LEU:HG	4:AC:76:PHE:HE1	1.78	0.48
1:AA:620:C:P	5:AD:129:ILE:HD11	2.54	0.48
1:AA:618:C:H2'	5:AD:142:ASN:OD1	2.13	0.48
5:AD:182:GLU:O	5:AD:183:ALA:HB3	2.14	0.48
1:AA:66:G:N3	1:AA:69:G:C5	2.67	0.48
2:AT:465:LYS:N	2:AT:513:LYS:HB3	1.60	0.48
27:BH:125:ASN:HD22	27:BH:126:VAL:H	1.61	0.48
11:AK:127:LYS:HD3	11:AK:131:ARG:HD2	1.95	0.48
43:BW:59:TRP:HH2	43:BW:66:VAL:HG22	1.73	0.48
46:BZ:62:LYS:HZ2	46:BZ:63:THR:H	1.61	0.48
1:AA:1376:U:C2'	7:AG:76:TYR:HB2	2.44	0.48
18:B3:1300:G:N1	18:B3:1330:A:C5	2.82	0.48
18:B3:1886:A:C5'	47:B9:19:SER:HB2	2.39	0.48
45:BY:37:GLY:H	45:BY:44:ARG:HB2	1.77	0.48
24:BE:190:ILE:O	24:BE:190:ILE:HG23	2.14	0.48
6:AE:116:THR:HG22	6:AE:117:ALA:N	2.27	0.48
18:B3:2221:A:H2'	18:B3:2222:C:C6	2.48	0.48
20:BA:179:LEU:O	20:BA:183:ILE:HG13	2.14	0.48
7:AG:166:ARG:HD2	7:AG:167:VAL:HG13	1.94	0.48
18:B3:557:C:O2'	18:B3:558:C:H5'	2.14	0.48
24:BE:189:GLU:CD	24:BE:223:PHE:HZ	2.17	0.48
33:BN:126:ARG:HB2	33:BN:137:LYS:CB	2.40	0.48
33:BN:126:ARG:HG3	33:BN:137:LYS:HB3	1.95	0.48
3:AB:58:LEU:HD11	3:AB:61:ARG:HH22	1.77	0.48
34:BO:100:THR:HB	34:BO:119:GLY:C	2.34	0.48
18:B3:2112:A:H2'	18:B3:2113:G:H8	1.79	0.48
17:AS:69:GLU:HG3	17:AS:70:ASN:N	2.29	0.48
38:BS:30:ARG:HG2	38:BS:30:ARG:NH1	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:86:VAL:HG13	2:AT:93:THR:HG21	1.95	0.48
1:AA:1051:C:H2'	1:AA:1052:U:H6	1.78	0.48
1:AA:959:A:H2'	1:AA:960:U:O4'	2.14	0.48
17:AS:89:MET:HB2	17:AS:107:ILE:CD1	2.42	0.48
18:B3:1260:G:C6	42:B0:45:ARG:NH1	2.82	0.48
18:B3:619:U:C5'	42:B0:46:PHE:HE1	2.27	0.48
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.49	0.48
10:AJ:61:LYS:H	10:AJ:61:LYS:CD	2.15	0.48
10:AJ:58:LEU:CG	10:AJ:90:TYR:HD2	2.27	0.48
19:B4:13:A:OP2	24:BE:11:ALA:CB	2.62	0.48
24:BE:49:TYR:CD1	24:BE:66:SER:N	2.82	0.48
36:BQ:36:VAL:HG13	36:BQ:37:GLY:N	2.29	0.48
18:B3:1432:U:OP1	33:BN:22:ARG:NH2	2.47	0.48
18:B3:1310:U:C5	23:BD:203:GLY:N	2.81	0.48
23:BD:30:ARG:HB3	23:BD:33:ILE:CD1	2.41	0.48
45:BY:31:LYS:O	45:BY:32:THR:HG23	2.14	0.48
18:B3:1180:C:H1'	30:BK:110:ILE:CG1	2.44	0.48
30:BK:19:GLY:CA	30:BK:50:THR:CG2	2.92	0.48
41:BV:60:PHE:CE2	41:BV:61:HIS:CE1	3.02	0.48
18:B3:1067:A:C5'	25:BF:96:PRO:HD3	2.44	0.48
1:AA:254:G:O3'	16:AQ:82:THR:CG2	2.62	0.48
16:AQ:81:ARG:HD2	16:AQ:109:HIS:CE1	2.49	0.48
44:BX:17:LEU:O	44:BX:21:LEU:HB3	2.13	0.48
22:BC:158:ARG:HD3	22:BC:179:GLU:CB	2.44	0.48
22:BC:87:GLY:HA2	22:BC:198:PHE:CE1	2.49	0.48
22:BC:48:TYR:CE2	22:BC:334:ILE:HG22	2.49	0.48
22:BC:47:GLY:N	22:BC:80:THR:HG22	2.29	0.48
18:B3:1053:G:H3'	28:BI:110:ARG:NH2	2.27	0.48
18:B3:183:A:C4'	31:BL:158:ARG:HH11	2.25	0.48
18:B3:2883:A:H2'	18:B3:2884:G:O4'	2.13	0.48
18:B3:1800:G:OP1	35:BP:69:LYS:NZ	2.46	0.48
38:BS:52:THR:O	38:BS:55:PHE:HB3	2.13	0.48
18:B3:2334:C:OP1	29:BJ:110:ASP:O	2.32	0.48
1:AA:560:U:O4'	1:AA:563:A:P	2.72	0.48
5:AD:106:GLU:OE1	5:AD:115:LYS:HE2	2.14	0.48
5:AD:179:ARG:CD	5:AD:182:GLU:HG3	2.44	0.48
8:AH:34:ILE:HG23	8:AH:35:LYS:N	2.29	0.48
2:AT:107:GLY:O	2:AT:109:VAL:HG13	2.13	0.48
1:AA:1346:A:OP1	9:AI:134:ARG:NH2	2.44	0.48
18:B3:2560:C:C3'	27:BH:168:ARG:CG	2.92	0.48
27:BH:19:SER:C	27:BH:26:LYS:HD2	2.34	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:44:GLY:N	32:BM:134:TYR:HD1	2.03	0.48
32:BM:49:ASN:HD21	32:BM:136:THR:HG22	1.78	0.48
35:BP:36:SER:HB3	35:BP:38:ASN:OD1	2.14	0.48
43:BW:52:PRO:HB3	43:BW:56:GLN:HE22	1.78	0.48
18:B3:2383:G:H5'	46:BZ:12:LYS:HG3	1.96	0.48
40:BU:111:LEU:CA	40:BU:116:LYS:HE3	2.27	0.48
40:BU:82:VAL:CG1	40:BU:83:ASP:H	2.19	0.48
1:AA:913:A:O2'	1:AA:914:A:P	2.72	0.48
18:B3:197:C:OP2	18:B3:198:A:H8	1.97	0.48
18:B3:2252:A:H2'	18:B3:2253:G:O4'	2.14	0.48
3:AB:110:ILE:C	3:AB:110:ILE:HD13	2.33	0.48
3:AB:106:PHE:HE2	3:AB:117:PRO:CG	2.27	0.48
4:AC:114:ILE:HG13	4:AC:149:MET:SD	2.54	0.48
43:BW:77:LYS:O	43:BW:77:LYS:HD2	2.14	0.48
7:AG:166:ARG:HD3	7:AG:167:VAL:N	2.29	0.48
18:B3:598:C:O2'	18:B3:599:G:H5'	2.13	0.48
21:BB:220:LYS:C	21:BB:220:LYS:HZ2	2.17	0.48
1:AA:991:U:OP2	1:AA:1212:U:O4	2.32	0.48
18:B3:2103:A:N7	18:B3:2538:A:N1	2.62	0.48
46:BZ:88:LYS:C	46:BZ:88:LYS:HD3	2.34	0.48
1:AA:722:A:H4'	1:AA:723:U:C5	2.48	0.48
1:AA:1003:G:N2	1:AA:1039:C:C2	2.82	0.48
1:AA:834:C:H2'	1:AA:835:U:H6	1.79	0.48
1:AA:51:A:H4'	1:AA:52:G:O5'	2.14	0.48
1:AA:951:G:OP2	13:AM:140:THR:HG21	2.14	0.47
1:AA:1316:G:C6	17:AS:49:MET:HE2	2.45	0.47
18:B3:843:A:H4'	33:BN:130:ARG:HG3	1.91	0.47
7:AG:97:MET:HG3	7:AG:110:VAL:HG12	1.95	0.47
1:AA:1130:A:C4'	9:AI:65:ARG:HH22	2.22	0.47
24:BE:43:LYS:CD	24:BE:44:TYR:CD1	2.95	0.47
18:B3:12:U:C2'	18:B3:13:G:H5'	2.43	0.47
18:B3:1427:A:O3'	33:BN:20:TYR:HE1	1.97	0.47
33:BN:35:ILE:CA	33:BN:38:TRP:CD1	2.94	0.47
42:B0:117:ILE:HD13	42:B0:117:ILE:N	2.29	0.47
18:B3:452:G:C8	23:BD:193:TYR:HB2	2.47	0.47
18:B3:677:C:H1'	23:BD:229:VAL:O	2.13	0.47
18:B3:709:G:H5'	34:BO:47:VAL:HG21	1.96	0.47
23:BD:185:LYS:HZ2	23:BD:185:LYS:HB3	1.79	0.47
18:B3:722:G:C1'	34:BO:141:ARG:HE	2.27	0.47
21:BB:138:HIS:NE2	21:BB:145:THR:HB	2.28	0.47
21:BB:62:PHE:N	21:BB:62:PHE:CD1	2.81	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:73:GLU:OE1	21:BB:73:GLU:HA	2.14	0.47
21:BB:8:ARG:HD2	21:BB:15:PHE:CD1	2.49	0.47
25:BF:154:LYS:HD3	25:BF:201:LEU:HD21	1.96	0.47
25:BF:153:GLY:H	25:BF:200:PHE:HB2	1.78	0.47
1:AA:267:C:H2'	1:AA:268:C:C6	2.49	0.47
16:AQ:107:PRO:O	16:AQ:134:VAL:HG23	2.14	0.47
18:B3:1736:A:OP1	22:BC:243:ARG:HG2	2.13	0.47
22:BC:122:TYR:CD1	22:BC:123:LYS:N	2.82	0.47
22:BC:104:VAL:CG2	22:BC:198:PHE:CE1	2.95	0.47
22:BC:236:LYS:CD	22:BC:236:LYS:H	2.27	0.47
18:B3:2656:G:HO2'	22:BC:268:GLN:HE22	1.54	0.47
22:BC:274:ARG:C	22:BC:274:ARG:HD3	2.34	0.47
18:B3:968:G:C4'	28:BI:35:ASP:OD2	2.62	0.47
37:BR:11:PHE:CE2	37:BR:121:GLU:CG	2.95	0.47
37:BR:19:VAL:CG1	37:BR:50:PRO:HG3	2.44	0.47
18:B3:2037:C:OP2	37:BR:47:ASN:C	2.51	0.47
37:BR:54:LEU:HD11	37:BR:81:GLN:HB2	1.95	0.47
26:BG:204:ALA:O	26:BG:205:GLU:HB3	2.13	0.47
31:BL:58:PHE:HD1	31:BL:132:ILE:CG2	2.27	0.47
18:B3:1814:G:P	18:B3:2733:U:O2	2.72	0.47
38:BS:45:ASN:CB	38:BS:47:ARG:HH22	2.27	0.47
20:BA:43:PRO:CA	20:BA:132:GLY:O	2.59	0.47
18:B3:2166:G:C6	20:BA:61:PRO:CD	2.96	0.47
3:AB:23:LEU:HD23	3:AB:49:VAL:CG2	2.43	0.47
5:AD:127:VAL:CA	5:AD:130:THR:HG22	2.44	0.47
8:AH:105:THR:OG1	8:AH:107:ALA:HB3	2.13	0.47
1:AA:860:A:C4'	8:AH:18:LYS:HZ2	2.27	0.47
1:AA:523:A:C6	12:AL:116:ASP:HB2	2.46	0.47
1:AA:521:G:OP1	12:AL:90:ASP:C	2.51	0.47
2:AT:536:LEU:HD22	18:B3:2698:G:H4'	1.94	0.47
18:B3:1228:C:OP1	32:BM:47:PHE:HD1	1.97	0.47
43:BW:13:ILE:C	43:BW:13:ILE:HD12	2.34	0.47
40:BU:101:PRO:CB	40:BU:104:LEU:HD21	2.43	0.47
40:BU:27:ARG:CB	40:BU:78:PHE:CE2	2.96	0.47
1:AA:435:C:O2'	1:AA:436:C:H5'	2.14	0.47
18:B3:698:A:C3'	41:BV:114:LYS:HB2	2.23	0.47
41:BV:130:SER:OG	41:BV:132:LEU:HD23	2.14	0.47
18:B3:2081:A:C4'	32:BM:69:PRO:HG2	2.44	0.47
1:AA:518:C:O2'	12:AL:66:SER:CA	2.62	0.47
1:AA:706:A:C5'	11:AK:23:ASN:HD22	2.15	0.47
41:BV:51:TYR:O	41:BV:52:PHE:HB2	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:77:LYS:HE2	43:BW:79:ASN:CB	2.22	0.47
6:AE:142:TYR:CG	6:AE:143:TRP:N	2.82	0.47
6:AE:143:TRP:CD1	6:AE:144:GLY:N	2.82	0.47
21:BB:36:ARG:HD2	21:BB:36:ARG:N	2.29	0.47
18:B3:284:C:CI'	18:B3:285:A:OP2	2.61	0.47
20:BA:194:LEU:HG	20:BA:195:LYS:N	2.28	0.47
2:AT:156:VAL:HG21	2:AT:334:LEU:CD2	2.43	0.47
31:BL:6:LEU:HD23	31:BL:6:LEU:HA	1.79	0.47
20:BA:100:ILE:C	20:BA:100:ILE:HD13	2.35	0.47
19:B4:108:C:O2'	19:B4:109:G:H5'	2.14	0.47
1:AA:513:C:H2'	1:AA:514:C:C6	2.49	0.47
18:B3:1791:U:O2'	18:B3:1792:C:H5'	2.13	0.47
1:AA:1262:C:H42	1:AA:1273:G:H1	1.62	0.47
1:AA:1221:G:N7	17:AS:79:HIS:CG	2.82	0.47
1:AA:1221:G:OP2	17:AS:80:MET:CA	2.62	0.47
1:AA:1299:A:C6	13:AM:55:HIS:ND1	2.79	0.47
17:AS:110:GLU:HG2	17:AS:111:MET:N	2.29	0.47
18:B3:540:A:O2'	42:B0:51:SER:C	2.41	0.47
9:AI:98:GLU:N	9:AI:105:LYS:HB3	2.29	0.47
18:B3:2295:G:C5'	36:BQ:5:HIS:N	2.78	0.47
19:B4:13:A:H1'	24:BE:20:PHE:CE1	2.50	0.47
24:BE:108:ARG:CZ	24:BE:112:ARG:HG2	2.43	0.47
36:BQ:84:TYR:C	36:BQ:86:GLU:H	2.17	0.47
18:B3:2089:A:H5''	33:BN:68:ARG:HH21	1.77	0.47
42:B0:96:ILE:HD11	42:B0:100:ILE:CG2	2.42	0.47
18:B3:35:U:H2'	18:B3:36:C:C6	2.49	0.47
18:B3:1347:U:C2'	23:BD:241:ALA:HB3	2.44	0.47
18:B3:1352:A:O5'	23:BD:49:TYR:O	2.32	0.47
23:BD:59:THR:CG2	23:BD:83:ARG:HD2	2.31	0.47
18:B3:121:U:C5	45:BY:17:LEU:HD13	2.47	0.47
45:BY:15:HIS:HA	45:BY:27:HIS:HA	1.96	0.47
47:B9:55:THR:HB	47:B9:61:LYS:O	2.13	0.47
25:BF:175:TYR:CD2	25:BF:176:GLY:N	2.82	0.47
1:AA:190(C):C:H41	16:AQ:112:PRO:HD3	1.75	0.47
39:BT:60:LYS:N	39:BT:60:LYS:HD3	2.28	0.47
18:B3:70:A:OP1	44:BX:48:ARG:HD3	2.14	0.47
18:B3:106:A:C2	44:BX:56:THR:HB	2.49	0.47
28:BI:60:LEU:HD21	28:BI:127:ALA:HB3	1.95	0.47
28:BI:140:THR:HG21	28:BI:141:LYS:NZ	2.29	0.47
18:B3:1133:A:H5''	28:BI:162:GLN:HG3	1.96	0.47
28:BI:87:LEU:HD13	28:BI:88:ARG:C	2.35	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2134:G:N7	18:B3:2258:A:C2'	2.76	0.47
18:B3:263:U:OP1	26:BG:195:ALA:HA	2.14	0.47
26:BG:149:LEU:CD2	26:BG:210:LEU:HG	2.44	0.47
26:BG:206:ASP:O	26:BG:210:LEU:HB3	2.14	0.47
31:BL:65:VAL:N	31:BL:126:TYR:CD2	2.82	0.47
31:BL:43:ARG:HE	31:BL:46:LYS:HB2	1.77	0.47
31:BL:66:ARG:CA	31:BL:126:TYR:CE1	2.94	0.47
18:B3:1705:C:H4'	35:BP:62:THR:CA	2.27	0.47
18:B3:898:G:OP1	41:BV:27:HIS:CD2	2.67	0.47
29:BJ:37:GLU:HB3	29:BJ:38:GLN:NE2	2.30	0.47
29:BJ:62:GLU:CD	29:BJ:64:ILE:H	2.18	0.47
20:BA:49:PHE:CD2	20:BA:193:LEU:CD2	2.93	0.47
20:BA:48:ARG:CD	20:BA:161:LYS:HA	2.44	0.47
4:AC:15:VAL:HG13	4:AC:16:PHE:N	2.28	0.47
4:AC:46:GLU:O	4:AC:84:VAL:HG23	2.14	0.47
10:AJ:69:LYS:HD2	14:AN:39:ARG:NH2	2.27	0.47
8:AH:10:LEU:HD22	8:AH:77:ARG:HD2	1.97	0.47
37:BR:39:VAL:HG11	37:BR:58:VAL:HG12	1.92	0.47
18:B3:1115:U:O2	18:B3:1225:C:O4'	2.32	0.47
35:BP:17:GLY:H	35:BP:20:LYS:HE2	1.75	0.47
35:BP:8:ARG:CA	35:BP:8:ARG:CZ	2.89	0.47
43:BW:17:LYS:HB2	43:BW:27:ARG:CD	2.43	0.47
43:BW:28:ALA:CB	43:BW:59:TRP:CD2	2.97	0.47
18:B3:2379:G:OP2	46:BZ:8:LYS:CD	2.62	0.47
46:BZ:27:TYR:CZ	46:BZ:68:VAL:CG2	2.97	0.47
1:AA:877:C:C1'	8:AH:3:SER:HG	2.21	0.47
18:B3:99:A:C4	40:BU:24:SER:HB3	2.49	0.47
41:BV:133:ALA:O	41:BV:137:ILE:HG13	2.14	0.47
41:BV:135:GLU:O	41:BV:136:LYS:HB2	2.14	0.47
1:AA:947:G:C4'	13:AM:143:ARG:NH2	2.70	0.47
18:B3:1154:A:N3	18:B3:2786:G:C5	2.75	0.47
18:B3:145:A:N3	31:BL:111:ASN:ND2	2.58	0.47
18:B3:242:A:HO2'	31:BL:2:ALA:N	2.11	0.47
3:AB:46:VAL:O	3:AB:46:VAL:HG13	2.14	0.47
6:AE:96:ARG:NE	6:AE:116:THR:HG21	2.29	0.47
7:AG:136:ILE:HG23	7:AG:137:THR:N	2.28	0.47
1:AA:991:U:P	1:AA:1212:U:O4	2.71	0.47
3:AB:193:PRO:O	3:AB:196:ILE:HB	2.14	0.47
18:B3:1561:U:H2'	18:B3:1562:C:C6	2.44	0.47
9:AI:126:LYS:HB3	9:AI:126:LYS:NZ	2.27	0.47
18:B3:2279:G:N2	18:B3:2463:A:H1'	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:93:LEU:N	8:AH:93:LEU:HD12	2.28	0.47
33:BN:52:ASP:O	33:BN:53:HIS:HB2	2.14	0.47
1:AA:179:A:H2'	1:AA:180:U:C6	2.49	0.47
1:AA:245:C:O2	1:AA:283:C:N3	2.46	0.47
18:B3:1062:U:O2'	18:B3:2307:A:N3	2.44	0.47
1:AA:41:G:H2'	1:AA:42:G:H8	1.79	0.47
1:AA:41:G:H2'	1:AA:42:G:C8	2.49	0.47
1:AA:848:C:H2'	1:AA:849:C:C6	2.49	0.47
18:B3:1425:G:O2'	18:B3:1426:C:H5'	2.14	0.47
1:AA:1299:A:C8	1:AA:1301:U:H1'	2.49	0.47
1:AA:1300:G:O2'	1:AA:1301:U:H6	1.97	0.47
1:AA:1322:C:N4	17:AS:81:ARG:HH11	2.11	0.47
13:AM:56:LYS:HG2	13:AM:60:GLU:HB3	1.96	0.47
13:AM:18:LEU:HD13	13:AM:74:GLN:CD	2.33	0.47
42:B0:15:LYS:CD	42:B0:16:LYS:HD2	2.44	0.47
9:AI:8:THR:HB	9:AI:87:GLY:H	1.79	0.47
9:AI:99:GLN:N	9:AI:105:LYS:CA	2.77	0.47
24:BE:75:LEU:HD23	24:BE:75:LEU:N	2.29	0.47
18:B3:1344:G:H5''	23:BD:197:ARG:NH1	2.29	0.47
18:B3:449:A:N3	18:B3:1348:A:N6	2.62	0.47
18:B3:659:A:OP2	34:BO:107:THR:CB	2.40	0.47
23:BD:174:HIS:HA	23:BD:177:LEU:HD11	1.96	0.47
23:BD:208:TYR:CD1	23:BD:248:ILE:CG2	2.94	0.47
23:BD:245:ARG:HH11	23:BD:246:PHE:H	1.61	0.47
23:BD:38:PHE:N	23:BD:38:PHE:CD1	2.82	0.47
18:B3:1349:G:H5'	23:BD:40:SER:HA	1.68	0.47
31:BL:82:LYS:NZ	46:BZ:49:PHE:CB	2.54	0.47
21:BB:101:LEU:HD11	21:BB:105:SER:HB3	1.93	0.47
21:BB:112:VAL:HA	21:BB:165:ILE:O	2.14	0.47
21:BB:115:VAL:HA	21:BB:162:ARG:HH11	1.78	0.47
18:B3:949:U:C1'	36:BQ:100:LYS:CA	2.89	0.47
18:B3:1024:G:HO2'	25:BF:104:LEU:HG	1.77	0.47
18:B3:954:U:OP2	36:BQ:13:TYR:OH	2.32	0.47
44:BX:44:ILE:CA	44:BX:47:VAL:HG12	2.34	0.47
18:B3:2093:G:N2	22:BC:256:PRO:O	2.47	0.47
18:B3:2818:A:C4	22:BC:99:ARG:HA	2.48	0.47
22:BC:327:ILE:HB	22:BC:328:PRO:C	2.34	0.47
28:BI:50:VAL:CG2	28:BI:51:HIS:H	2.18	0.47
37:BR:57:MET:HE2	37:BR:126:TRP:CH2	2.50	0.47
26:BG:149:LEU:HD12	26:BG:214:VAL:HG12	1.96	0.47
31:BL:119:TRP:HB3	31:BL:129:PHE:HA	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:47:ALA:O	31:BL:48:ARG:HB2	2.14	0.47
31:BL:58:PHE:CZ	31:BL:147:TYR:CE1	3.03	0.47
18:B3:1806:G:C4'	18:B3:2874:G:C2'	2.91	0.47
35:BP:134:LYS:HG3	35:BP:135:ARG:N	2.29	0.47
18:B3:2890:A:C1'	38:BS:50:ALA:HA	2.42	0.47
18:B3:898:G:C5'	41:BV:25:ARG:CG	2.92	0.47
29:BJ:36:LEU:HB2	29:BJ:67:HIS:CD2	2.49	0.47
20:BA:59:PRO:HD3	20:BA:153:SER:HB3	1.96	0.47
20:BA:161:LYS:N	20:BA:161:LYS:HD3	2.26	0.47
1:AA:613:C:O2'	1:AA:614:A:H5'	2.14	0.47
3:AB:120:VAL:O	3:AB:120:VAL:HG13	2.13	0.47
6:AE:138:ILE:HD12	6:AE:217:ILE:HD12	1.96	0.47
6:AE:219:ASN:CB	8:AH:76:PRO:HG2	2.32	0.47
12:AL:43:PHE:CD1	12:AL:44:GLY:N	2.83	0.47
12:AL:56:LYS:HD3	12:AL:96:VAL:O	2.14	0.47
12:AL:74:VAL:CG2	12:AL:83:VAL:HG23	2.44	0.47
18:B3:2559:C:H4'	18:B3:2799:A:O5'	2.14	0.47
27:BH:150:SER:O	27:BH:154:VAL:HG13	2.14	0.47
27:BH:170:LYS:O	27:BH:171:ASP:HB3	2.14	0.47
27:BH:83:THR:O	27:BH:84:LYS:HG2	2.14	0.47
32:BM:37:ALA:HB2	32:BM:79:PHE:CZ	2.49	0.47
32:BM:58:ARG:HD2	32:BM:60:ALA:CA	2.44	0.47
1:AA:143:A:H5''	1:AA:200:G:O5'	2.13	0.47
35:BP:18:LYS:CA	35:BP:18:LYS:CE	2.93	0.47
43:BW:17:LYS:C	43:BW:19:LEU:H	2.18	0.47
43:BW:59:TRP:HH2	43:BW:66:VAL:CB	2.27	0.47
1:AA:294:U:C5'	1:AA:610:G:O2'	2.62	0.47
18:B3:700:A:OP2	41:BV:116:ARG:N	2.47	0.47
41:BV:121:PRO:HB3	41:BV:140:ALA:CB	2.44	0.47
41:BV:86:ARG:HH22	41:BV:91:LYS:CB	2.28	0.47
2:AT:737:GLU:HB2	2:AT:766:PHE:CE2	2.49	0.47
4:AC:105:LYS:HD2	4:AC:172:ARG:O	2.12	0.47
4:AC:105:LYS:HG3	4:AC:172:ARG:HG3	1.96	0.47
4:AC:161:GLN:HE21	4:AC:161:GLN:CA	2.27	0.47
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.14	0.47
2:AT:829:LYS:HA	2:AT:829:LYS:HE3	1.96	0.47
18:B3:940:G:O2'	18:B3:941:G:H5'	2.14	0.47
1:AA:1021:G:C2'	1:AA:1022:G:H5'	2.44	0.47
1:AA:51:A:H4'	1:AA:52:G:C5'	2.44	0.47
2:AT:559:PRO:HG2	2:AT:778:PHE:CE1	2.49	0.47
1:AA:1532:U:O5'	1:AA:1532:U:H6	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:18:LEU:HG	13:AM:101:LEU:HD12	1.95	0.47
13:AM:78:HIS:N	13:AM:85:PHE:CE1	2.82	0.47
1:AA:1321:C:N4	17:AS:81:ARG:CG	2.70	0.47
1:AA:1318:A:N1	17:AS:82:ASN:CG	2.67	0.47
42:B0:32:TRP:CE3	42:B0:33:ARG:N	2.82	0.47
24:BE:20:PHE:CB	24:BE:24:ARG:CB	2.93	0.47
19:B4:118:C:O2	24:BE:72:ASP:N	2.36	0.47
42:B0:96:ILE:O	42:B0:96:ILE:HG23	2.13	0.47
18:B3:449:A:N3	18:B3:1348:A:N1	2.63	0.47
23:BD:149:LEU:CD2	23:BD:246:PHE:CE2	2.96	0.47
18:B3:1349:G:H4'	23:BD:42:ASN:H	1.79	0.47
30:BK:20:GLY:N	30:BK:54:LYS:HD2	2.29	0.47
18:B3:1184:A:O4'	30:BK:86:LYS:HB2	2.12	0.47
21:BB:185:PHE:CG	21:BB:186:HIS:N	2.82	0.47
25:BF:103:GLN:HA	25:BF:106:ARG:O	2.14	0.47
19:B4:85:A:O3'	25:BF:218:LYS:CG	2.61	0.47
25:BF:222:PHE:CD2	25:BF:223:ILE:N	2.82	0.47
1:AA:538:G:C1'	12:AL:140:LYS:NZ	2.78	0.47
22:BC:115:ARG:HH21	22:BC:119:LYS:HE2	1.79	0.47
22:BC:214:ILE:HG22	22:BC:215:ASP:N	2.29	0.47
22:BC:261:TRP:CE3	22:BC:262:SER:N	2.82	0.47
22:BC:286:LYS:HG2	22:BC:287:GLY:N	2.29	0.47
22:BC:26:ALA:O	22:BC:337:LEU:HD11	2.15	0.47
22:BC:213:MET:CE	22:BC:344:ASN:HD21	2.27	0.47
22:BC:357:TRP:HB3	38:BS:15:PRO:C	2.33	0.47
28:BI:130:ASP:CG	28:BI:131:ILE:H	2.17	0.47
28:BI:138:VAL:HG12	28:BI:139:ARG:N	2.28	0.47
28:BI:148:VAL:HG13	28:BI:149:VAL:N	2.29	0.47
26:BG:165:LEU:N	26:BG:166:PRO:HD2	2.28	0.47
31:BL:168:LYS:HA	31:BL:171:ARG:NH1	2.28	0.47
31:BL:190:TRP:O	31:BL:191:LYS:HB3	2.14	0.47
35:BP:102:ARG:HH11	35:BP:102:ARG:HB3	1.77	0.47
29:BJ:32:ALA:O	29:BJ:35:VAL:HG12	2.15	0.47
29:BJ:32:ALA:N	29:BJ:34:LYS:HE3	2.29	0.47
18:B3:2220:C:H4'	20:BA:212:PRO:HD3	1.96	0.47
18:B3:1503:U:H2'	18:B3:1504:A:O4'	2.13	0.47
18:B3:1674:C:C5'	39:BT:119:LYS:HE2	1.71	0.47
1:AA:25:C:C2'	12:AL:109:ARG:HH11	2.17	0.47
12:AL:41:SER:C	12:AL:43:PHE:H	2.18	0.47
1:AA:1348:U:H5'	9:AI:124:GLU:OE1	2.15	0.47
18:B3:1119:G:N2	18:B3:1246:A:N1	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1380:U:O2	18:B3:1380:U:C2'	2.60	0.47
43:BW:27:ARG:HD2	43:BW:66:VAL:HG21	1.95	0.47
40:BU:42:GLN:O	40:BU:43:TYR:HB3	2.14	0.47
1:AA:293:G:C5'	1:AA:610:G:C5	2.91	0.47
41:BV:121:PRO:HB3	41:BV:140:ALA:C	2.35	0.47
1:AA:1503:A:O2'	1:AA:1504:G:P	2.71	0.47
40:BU:14:LYS:N	40:BU:17:LYS:HG2	2.29	0.47
1:AA:666:G:N3	15:AO:109:ASP:OD2	2.47	0.47
18:B3:197:C:OP2	18:B3:198:A:C8	2.68	0.47
3:AB:29:GLN:HA	3:AB:29:GLN:NE2	2.30	0.47
32:BM:26:LEU:HD21	32:BM:97:ALA:HA	1.97	0.47
1:AA:430:A:C2'	1:AA:431:A:H5'	2.44	0.47
18:B3:2581:U:H4'	18:B3:2600:A:C2	2.49	0.47
1:AA:1067:A:H4'	1:AA:1387:G:H4'	1.97	0.47
6:AE:133:LEU:HD13	6:AE:133:LEU:C	2.34	0.47
1:AA:458:C:H2'	1:AA:459:G:H8	1.79	0.47
18:B3:1422:U:H2'	18:B3:1423:C:C6	2.50	0.47
18:B3:2372:A:H2'	18:B3:2373:U:C6	2.50	0.47
43:BW:70:LEU:N	43:BW:70:LEU:HD12	2.28	0.47
1:AA:989:C:C2	1:AA:1016:A:H1'	2.49	0.47
13:AM:132:ARG:HB3	13:AM:136:GLN:NE2	2.26	0.47
1:AA:1220:G:C8	17:AS:78:THR:OG1	2.42	0.47
33:BN:130:ARG:HA	33:BN:134:ARG:O	2.15	0.47
18:B3:619:U:C5'	42:B0:46:PHE:CE1	2.97	0.47
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.13	0.47
9:AI:105:LYS:HD2	9:AI:106:LYS:N	2.29	0.47
9:AI:48:TYR:CE1	9:AI:84:ILE:HD12	2.50	0.47
9:AI:98:GLU:N	9:AI:105:LYS:CB	2.77	0.47
19:B4:36:C:C6	24:BE:181:PRO:CB	2.98	0.47
36:BQ:75:ILE:N	36:BQ:91:LEU:HD23	2.29	0.47
33:BN:101:ALA:C	33:BN:106:LEU:HD21	2.35	0.47
33:BN:62:PHE:CD2	33:BN:63:ASN:N	2.82	0.47
18:B3:1371:U:OP1	33:BN:66:ILE:HD12	2.15	0.47
18:B3:1309:U:H2'	18:B3:1310:U:H5'	1.96	0.47
23:BD:196:ARG:CG	23:BD:198:TRP:CE2	2.95	0.47
34:BO:139:ILE:HG21	34:BO:141:ARG:NH1	2.28	0.47
34:BO:48:VAL:HG13	34:BO:49:LEU:N	2.29	0.47
18:B3:773:A:O4'	45:BY:46:TYR:CZ	2.67	0.47
18:B3:894:A:N3	23:BD:98:MET:HE3	2.29	0.47
45:BY:48:TRP:HD1	45:BY:49:GLY:HA3	1.79	0.47
47:B9:26:LYS:H	47:B9:28:LEU:HD12	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:188:TYR:CE1	21:BB:195:TRP:CB	2.95	0.47
25:BF:103:GLN:O	25:BF:104:LEU:HB3	2.12	0.47
25:BF:149:LYS:HG3	25:BF:150:ARG:N	2.29	0.47
18:B3:2074:A:H4'	18:B3:2075:G:OP1	2.13	0.47
18:B3:1731:C:OP1	18:B3:2839:C:C2	2.65	0.47
18:B3:2897:C:H5''	22:BC:312:HIS:HE2	1.70	0.47
22:BC:121:TRP:CD1	22:BC:122:TYR:N	2.82	0.47
22:BC:157:VAL:HG22	22:BC:158:ARG:N	2.29	0.47
22:BC:46:LEU:O	22:BC:163:THR:HG21	2.15	0.47
22:BC:80:THR:OG1	22:BC:204:VAL:HG11	2.15	0.47
22:BC:251:ILE:HG22	22:BC:259:VAL:CG2	2.44	0.47
22:BC:254:TRP:HB2	22:BC:255:HIS:H	1.50	0.47
22:BC:39:PRO:HB3	22:BC:184:GLY:N	2.29	0.47
28:BI:76:MET:SD	28:BI:148:VAL:HA	2.54	0.47
31:BL:43:ARG:HH21	31:BL:47:ALA:H	1.62	0.47
31:BL:62:ARG:O	31:BL:63:VAL:HG23	2.15	0.47
18:B3:1469:C:OP1	31:BL:66:ARG:HG2	2.15	0.47
35:BP:92:VAL:CA	35:BP:95:ILE:HD13	2.45	0.47
29:BJ:59:ARG:HD3	29:BJ:62:GLU:OE1	2.14	0.47
20:BA:43:PRO:CG	20:BA:132:GLY:HA2	2.13	0.47
4:AC:10:LEU:H	4:AC:10:LEU:CD2	2.27	0.47
3:AB:59:ALA:CB	3:AB:157:VAL:CG1	2.92	0.47
5:AD:131:GLN:HE21	5:AD:131:GLN:CA	2.27	0.47
5:AD:99:LEU:HD13	5:AD:101:VAL:N	2.28	0.47
12:AL:86:PHE:O	12:AL:124:VAL:HG22	2.13	0.47
2:AT:464:LEU:HB2	2:AT:509:LYS:O	2.14	0.47
2:AT:785:ARG:NH1	2:AT:785:ARG:HG3	2.27	0.47
18:B3:1744:G:O3'	37:BR:22:ILE:HD13	2.15	0.47
18:B3:2782:G:O6	18:B3:2790:C:H5''	2.13	0.47
27:BH:172:ILE:O	27:BH:173:ARG:HB2	2.15	0.47
27:BH:46:THR:CB	27:BH:55:VAL:HG23	2.43	0.47
27:BH:8:GLN:HG3	27:BH:9:GLN:H	1.75	0.47
1:AA:143:A:P	1:AA:201:C:C4	3.07	0.47
35:BP:14:VAL:HG11	35:BP:16:VAL:CG2	2.43	0.47
35:BP:22:TRP:CG	35:BP:50:VAL:N	2.82	0.47
18:B3:78:G:HO2'	40:BU:27:ARG:CZ	2.19	0.47
40:BU:57:LEU:CA	40:BU:67:GLU:CG	2.93	0.47
18:B3:906:C:N3	18:B3:1329:A:C5	2.77	0.47
41:BV:111:ILE:HG12	41:BV:129:VAL:HG23	1.97	0.47
1:AA:120:A:N3	1:AA:122:G:C5	2.83	0.47
18:B3:1154:A:C5	18:B3:1156:C:C1'	2.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2385:G:H2'	18:B3:2386:U:C6	2.50	0.47
46:BZ:37:GLN:HG2	46:BZ:40:ARG:NE	2.27	0.47
3:AB:28:VAL:HG22	3:AB:29:GLN:H	1.80	0.47
15:AO:80:ALA:HB1	15:AO:81:PRO:CD	2.44	0.47
4:AC:101:ALA:CA	4:AC:185:VAL:HG21	2.43	0.47
29:BJ:132:ARG:NH1	29:BJ:132:ARG:HG3	2.27	0.47
18:B3:1378:G:C5	18:B3:2748:G:N7	2.83	0.47
7:AG:208:TYR:CE2	7:AG:212:LYS:CE	2.95	0.47
18:B3:2366:C:OP1	36:BQ:23:GLY:O	2.31	0.47
1:AA:1461:G:O2'	1:AA:1462:G:H5'	2.15	0.47
18:B3:2842:G:C2'	18:B3:2843:A:H5'	2.45	0.47
18:B3:353:G:O2'	18:B3:354:A:H5'	2.14	0.47
1:AA:528:C:H5'	1:AA:535:A:C6	2.50	0.47
42:B0:86:THR:O	42:B0:86:THR:HG23	2.14	0.47
1:AA:1241:G:C5	7:AG:184:ARG:NH2	2.83	0.47
1:AA:1299:A:O3'	13:AM:26:ILE:CG1	2.63	0.47
1:AA:1223:C:H5''	17:AS:100:LYS:NZ	2.30	0.47
18:B3:637:C:H2'	18:B3:638:C:C6	2.50	0.47
9:AI:50:PRO:HB3	9:AI:115:LEU:CD1	2.45	0.47
24:BE:46:THR:CG2	24:BE:49:TYR:HB2	2.40	0.47
24:BE:64:ILE:HG21	24:BE:109:THR:HG1	1.79	0.47
36:BQ:18:ASP:HB3	36:BQ:19:PHE:H	1.34	0.47
1:AA:336:C:C5	1:AA:1434:A:H1'	2.50	0.47
33:BN:25:PHE:CD1	33:BN:143:SER:HB3	2.48	0.47
18:B3:1371:U:OP1	33:BN:66:ILE:CD1	2.62	0.47
18:B3:27:U:O2'	18:B3:1318:A:H3'	2.14	0.47
23:BD:233:ASN:O	23:BD:237:LEU:HG	2.13	0.47
18:B3:1183:C:C3'	30:BK:85:LEU:CD1	2.93	0.47
21:BB:28:LEU:HB2	21:BB:122:ARG:HH21	1.79	0.47
21:BB:136:ILE:O	21:BB:146:ARG:HG3	2.15	0.47
18:B3:1287:A:N1	25:BF:106:ARG:NE	2.58	0.47
25:BF:100:LYS:HZ2	25:BF:104:LEU:HD22	1.78	0.47
25:BF:82:LEU:CD1	25:BF:137:TYR:CD2	2.97	0.47
44:BX:12:LYS:HG2	44:BX:16:GLN:HG2	1.96	0.47
18:B3:1056:U:N3	18:B3:2494:G:H1'	2.29	0.47
18:B3:2489:G:O3'	18:B3:2490:A:N7	2.47	0.47
22:BC:26:ALA:CB	22:BC:217:ILE:HG12	2.44	0.47
22:BC:228:VAL:CA	22:BC:232:TRP:CZ2	2.98	0.47
22:BC:316:ILE:HG22	22:BC:317:LYS:N	2.29	0.47
22:BC:45:PHE:O	22:BC:338:ARG:HD3	2.13	0.47
28:BI:152:LEU:N	28:BI:154:ARG:HE	2.12	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2255:A:O2'	18:B3:2256:G:H5'	2.14	0.47
26:BG:138:VAL:HG13	26:BG:139:VAL:N	2.30	0.47
18:B3:154:C:OP1	31:BL:190:TRP:HZ2	1.97	0.47
18:B3:1815:A:C4	18:B3:2734:G:C6	3.02	0.47
18:B3:1708:C:C5	35:BP:81:LYS:HB2	2.49	0.47
29:BJ:16:LEU:HD11	29:BJ:75:ALA:HB3	1.95	0.47
3:AB:59:ALA:CA	3:AB:157:VAL:HG11	2.43	0.47
6:AE:217:ILE:HG23	6:AE:218:GLY:N	2.29	0.47
37:BR:27:ASP:HB2	37:BR:113:ALA:O	2.14	0.47
37:BR:32:ARG:HB3	37:BR:65:GLY:HA2	1.96	0.47
37:BR:34:LEU:HD13	37:BR:34:LEU:N	2.13	0.47
18:B3:2578:G:O2'	18:B3:2680:A:H5'	2.14	0.47
27:BH:159:ALA:O	27:BH:160:ASP:HB3	2.14	0.47
32:BM:55:ASP:H	32:BM:58:ARG:CB	2.26	0.47
1:AA:778:G:C5'	11:AK:127:LYS:O	2.61	0.47
46:BZ:66:LYS:H	46:BZ:86:ARG:CD	2.27	0.47
1:AA:19:C:H2'	1:AA:20:U:H6	1.80	0.47
5:AD:63:ASP:O	5:AD:67:PRO:HG2	2.14	0.47
41:BV:135:GLU:CB	41:BV:136:LYS:HZ3	2.20	0.47
41:BV:75:ASP:OD1	41:BV:114:LYS:HD2	2.14	0.47
2:AT:738:GLN:N	18:B3:1199:A:N6	2.56	0.47
1:AA:118:U:C4'	1:AA:122:G:H1'	2.45	0.47
46:BZ:2:ASN:O	46:BZ:3:VAL:HG13	2.15	0.47
11:AK:24:ASP:HB2	11:AK:53:GLU:HB3	1.96	0.47
11:AK:92:THR:OG1	11:AK:93:PRO:HD2	2.14	0.47
10:AJ:62:VAL:HG13	10:AJ:83:GLU:HG2	1.95	0.47
45:BY:37:GLY:H	45:BY:44:ARG:CG	2.27	0.47
21:BB:1:GLY:H1	21:BB:206:VAL:HB	1.79	0.47
41:BV:52:PHE:HD1	41:BV:52:PHE:HA	1.32	0.47
20:BA:179:LEU:HD12	20:BA:183:ILE:HD11	1.97	0.47
20:BA:53:LEU:CD2	20:BA:189:PHE:CD1	2.95	0.47
7:AG:88:ILE:O	7:AG:88:ILE:HG23	2.13	0.47
2:AT:162:ARG:HG3	2:AT:166:GLU:OE2	2.14	0.47
15:AO:75:LYS:C	15:AO:75:LYS:HD2	2.35	0.47
18:B3:136:C:H2'	18:B3:137:U:O4'	2.14	0.47
18:B3:2473:U:O3'	18:B3:2474:A:H3'	2.14	0.47
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.29	0.47
1:AA:952:U:O2'	1:AA:953:G:H5'	2.15	0.47
13:AM:86:LEU:CD1	13:AM:88:ARG:H	2.28	0.47
42:B0:30:GLU:HG2	42:B0:31:ASN:N	2.29	0.47
18:B3:540:A:OP1	42:B0:18:LYS:CA	2.60	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1279:A:O2'	1:AA:1282:C:N4	2.48	0.47
9:AI:97:ASP:CB	9:AI:102:ASN:HB3	2.44	0.47
9:AI:98:GLU:HB3	9:AI:103:GLU:CA	2.40	0.47
1:AA:1128:C:H2'	1:AA:1129:C:C5'	2.41	0.47
9:AI:34:PRO:HD2	9:AI:37:LEU:HD22	1.96	0.47
18:B3:2413:A:H2	24:BE:145:PHE:CE2	2.26	0.47
24:BE:146:LEU:CD1	24:BE:163:LEU:HD12	2.44	0.47
24:BE:107:ARG:H	24:BE:110:LEU:CB	2.24	0.47
24:BE:21:ARG:HB3	24:BE:22:ARG:H	1.22	0.47
1:AA:319:G:C2	1:AA:1434:A:C4	3.03	0.47
33:BN:104:LYS:HD3	33:BN:105:GLY:H	1.76	0.47
18:B3:501:G:C2'	33:BN:15:SER:H	2.26	0.47
18:B3:2841:A:C2	33:BN:68:ARG:CB	2.96	0.47
23:BD:198:TRP:CG	23:BD:199:THR:N	2.83	0.47
18:B3:677:C:N1	23:BD:231:SER:N	2.63	0.47
23:BD:7:VAL:HG22	23:BD:8:HIS:N	2.30	0.47
18:B3:1305:C:H3'	23:BD:194:ARG:CZ	2.44	0.47
18:B3:516:A:C2	18:B3:1318:A:N1	2.83	0.47
23:BD:130:VAL:CG1	23:BD:134:VAL:CG2	2.93	0.47
23:BD:229:VAL:HG21	23:BD:255:THR:C	2.34	0.47
34:BO:59:ARG:HD3	34:BO:60:PRO:HG3	1.97	0.47
18:B3:643:A:N3	23:BD:86:GLN:OE1	2.47	0.47
45:BY:17:LEU:C	45:BY:17:LEU:HD12	2.34	0.47
47:B9:68:TYR:CD1	47:B9:68:TYR:N	2.78	0.47
21:BB:126:ALA:HA	21:BB:127:ARG:NH1	2.29	0.47
47:B9:67:ALA:HB3	47:B9:68:TYR:CD1	2.49	0.47
21:BB:111:ILE:HG22	21:BB:166:GLY:HA2	1.95	0.47
21:BB:195:TRP:CH2	21:BB:197:LYS:CB	2.95	0.47
21:BB:221:ALA:O	21:BB:222:SER:HB2	2.14	0.47
21:BB:233:LYS:HZ2	21:BB:234:ALA:HB2	1.79	0.47
25:BF:132:TYR:HB3	25:BF:133:VAL:HG13	1.97	0.47
25:BF:83:VAL:HG22	25:BF:84:PHE:H	1.80	0.47
1:AA:132:C:H2'	1:AA:262:A:N3	2.30	0.47
12:AL:142:LYS:HD2	12:AL:143:PRO:N	2.30	0.47
18:B3:90:A:H2'	18:B3:91:G:O4'	2.14	0.47
44:BX:17:LEU:HD21	44:BX:54:VAL:CG2	2.43	0.47
18:B3:2672:C:H2'	18:B3:2673:U:H6	1.79	0.47
18:B3:2821:C:C5'	22:BC:103:THR:C	2.73	0.47
22:BC:168:THR:CG2	22:BC:171:ALA:HB3	2.43	0.47
22:BC:45:PHE:CE2	22:BC:202:VAL:HG23	2.50	0.47
22:BC:274:ARG:N	22:BC:274:ARG:HD3	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:302:LYS:CD	22:BC:305:THR:HB	2.45	0.47
22:BC:316:ILE:HD12	22:BC:320:PHE:HE1	1.78	0.47
18:B3:2283:G:O5'	28:BI:114:GLY:CA	2.58	0.47
18:B3:2037:C:H5''	37:BR:47:ASN:C	2.34	0.47
18:B3:2309:C:O2'	28:BI:115:MET:N	2.48	0.47
18:B3:2712:G:H5'	37:BR:42:SER:HB2	1.81	0.47
18:B3:2897:C:O2'	18:B3:2898:G:H5'	2.15	0.47
22:BC:119:LYS:HG2	22:BC:119:LYS:O	2.14	0.47
22:BC:232:TRP:CH2	22:BC:265:ARG:N	2.82	0.47
22:BC:313:TYR:CD2	22:BC:313:TYR:N	2.77	0.47
22:BC:84:VAL:HG22	22:BC:162:HIS:CE1	2.50	0.47
22:BC:89:VAL:HG21	22:BC:91:TYR:OH	2.15	0.47
28:BI:17:TYR:HA	28:BI:18:PRO:C	2.35	0.47
37:BR:46:LEU:N	37:BR:46:LEU:HD13	2.29	0.47
18:B3:2133:U:N3	18:B3:2259:C:OP2	2.45	0.47
31:BL:139:LYS:O	31:BL:140:ALA:HB3	2.14	0.47
31:BL:183:LYS:HE2	31:BL:192:ARG:HB3	1.96	0.47
35:BP:88:LEU:N	35:BP:88:LEU:HD23	2.28	0.47
18:B3:2346:C:H1'	29:BJ:65:ALA:C	2.16	0.47
18:B3:2338:G:OP2	29:BJ:102:GLY:C	2.53	0.47
29:BJ:48:LYS:CG	29:BJ:49:ALA:H	2.28	0.47
29:BJ:83:LEU:O	29:BJ:84:LYS:HB3	2.14	0.47
10:AJ:70:THR:CA	14:AN:42:PHE:HB2	2.02	0.47
18:B3:124:C:P	39:BT:88:LYS:NZ	2.88	0.47
3:AB:13:ALA:O	3:AB:14:GLN:HG3	2.15	0.47
5:AD:156:ILE:HD13	5:AD:157:ASP:H	1.79	0.47
8:AH:40:MET:HG3	8:AH:46:ILE:HG12	1.97	0.47
5:AD:109:LEU:HD21	5:AD:134:ILE:HG21	1.96	0.47
5:AD:91:LYS:O	6:AE:174:GLY:C	2.53	0.47
1:AA:45:U:H4'	1:AA:307:C:O2'	2.14	0.47
12:AL:76:LEU:HD11	12:AL:104:LEU:HD22	1.95	0.47
1:AA:362:G:HO2'	12:AL:78:LYS:HD2	1.77	0.47
2:AT:111:PHE:CE1	2:AT:141:THR:HG23	2.50	0.47
18:B3:2697:A:H2'	18:B3:2698:G:C8	2.50	0.47
37:BR:66:LYS:HB2	37:BR:67:PRO:CD	2.44	0.47
18:B3:1117:A:C8	18:B3:1226:G:C8	2.57	0.47
18:B3:1244:U:H6	32:BM:43:SER:OG	1.98	0.47
27:BH:124:ARG:HH11	27:BH:125:ASN:H	1.61	0.47
27:BH:126:VAL:HB	27:BH:127:PRO:CA	2.44	0.47
27:BH:18:VAL:CG1	27:BH:26:LYS:HE2	2.44	0.47
1:AA:677:U:N3	11:AK:123:ASP:HA	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1068:G:OP1	1:AA:1388:C:C4'	2.63	0.47
43:BW:16:HIS:CG	43:BW:17:LYS:H	2.32	0.47
43:BW:22:VAL:HG12	43:BW:24:PHE:N	2.29	0.47
35:BP:21:VAL:CG2	35:BP:22:TRP:CE2	2.95	0.47
18:B3:1382:G:HO2'	43:BW:26:LYS:HD2	1.79	0.47
18:B3:2458:U:O2'	46:BZ:66:LYS:HB2	2.15	0.47
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.15	0.47
2:AT:749:LYS:CE	18:B3:2508:C:C6	2.85	0.47
1:AA:404:U:O4	5:AD:70:LEU:CD2	2.61	0.47
41:BV:78:TRP:CD1	41:BV:117:ILE:CD1	2.94	0.47
41:BV:92:SER:O	41:BV:93:ALA:HB3	2.15	0.47
41:BV:114:LYS:HD2	41:BV:115:GLY:N	2.30	0.47
1:AA:1483:A:O2'	18:B3:1988:C:O2	2.32	0.47
12:AL:67:ALA:HB3	12:AL:69:ARG:HE	1.79	0.47
18:B3:2019:A:C1'	47:B9:17:TYR:OH	2.62	0.47
11:AK:63:ALA:CB	11:AK:103:ALA:HB3	2.45	0.47
11:AK:88:THR:HG22	11:AK:94:GLY:HA3	1.96	0.47
11:AK:93:PRO:C	11:AK:95:PRO:HD3	2.34	0.47
4:AC:114:ILE:CG1	4:AC:137:VAL:HG21	2.44	0.47
18:B3:1090:A:O5'	42:B0:55:ILE:HD12	2.13	0.47
8:AH:80:VAL:HG12	8:AH:87:LYS:HG3	1.95	0.47
18:B3:1172:G:H5''	30:BK:40:LYS:NZ	2.30	0.47
18:B3:266:G:OP1	31:BL:144:ASP:CG	2.53	0.47
18:B3:2581:U:H1'	18:B3:2600:A:C2	2.49	0.47
33:BN:137:LYS:N	33:BN:137:LYS:HD2	2.14	0.47
39:BT:96:LYS:CA	39:BT:96:LYS:HE3	2.38	0.47
31:BL:175:LYS:HG3	31:BL:176:GLY:N	2.29	0.47
37:BR:130:ALA:O	37:BR:131:SER:HB2	2.15	0.47
11:AK:111:ILE:HD12	11:AK:114:ILE:CD1	2.42	0.47
1:AA:740:U:O4'	15:AO:100:HIS:CE1	2.68	0.47
1:AA:818:G:H3'	1:AA:819:A:H5''	1.88	0.47
1:AA:686:U:O4	1:AA:703:G:H1'	2.14	0.47
3:AB:114:PHE:CD2	3:AB:115:LYS:N	2.82	0.47
1:AA:474:G:O2'	1:AA:475:G:H5'	2.14	0.47
1:AA:1196:U:H4'	1:AA:1197:G:OP2	2.14	0.47
4:AC:164:ASN:ND2	4:AC:192:ALA:HB3	2.28	0.47
1:AA:411:A:C6	1:AA:429:U:C4	3.03	0.47
1:AA:1044:A:O2'	1:AA:1045:C:H5'	2.15	0.47
4:AC:67:GLU:HG2	4:AC:71:LEU:HD13	1.95	0.47
1:AA:149:A:H2'	1:AA:150:C:C6	2.50	0.47
5:AD:168:ARG:HB3	5:AD:169:PRO:CD	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.14	0.47
1:AA:180:U:H2'	1:AA:181:G:H5'	1.95	0.47
1:AA:848:C:H2'	1:AA:849:C:H6	1.78	0.47
18:B3:393:G:O2'	18:B3:394:G:H5'	2.14	0.47
6:AE:149:GLN:HB2	6:AE:152:SER:O	2.15	0.47
18:B3:2171:C:H2'	18:B3:2203:A:O4'	2.14	0.47
18:B3:1552:G:H2'	18:B3:1553:C:C6	2.50	0.47
7:AG:114:LYS:HD3	7:AG:114:LYS:O	2.15	0.47
9:AI:56:LEU:N	9:AI:56:LEU:HD12	2.29	0.47
18:B3:2831:C:H2'	18:B3:2832:C:H5'	1.96	0.47
18:B3:2398:A:H2'	18:B3:2399:G:O4'	2.14	0.47
1:AA:1331:G:HO2'	1:AA:1332:A:P	2.37	0.47
13:AM:113:LEU:H	13:AM:113:LEU:HD12	1.79	0.47
42:B0:17:PHE:CD2	42:B0:32:TRP:CB	2.95	0.47
18:B3:621:C:P	42:B0:40:SER:OG	2.73	0.47
9:AI:97:ASP:HB2	9:AI:103:GLU:CA	2.45	0.47
9:AI:99:GLN:HE22	9:AI:115:LEU:HD12	1.80	0.47
10:AJ:25:THR:OG1	10:AJ:88:LYS:HD2	2.13	0.47
19:B4:69:U:C1'	24:BE:14:SER:HB2	2.32	0.47
24:BE:95:TRP:CD1	24:BE:158:ARG:HG2	2.49	0.47
24:BE:35:ARG:CZ	24:BE:35:ARG:CA	2.90	0.47
36:BQ:95:HIS:CD2	36:BQ:96:ILE:H	2.33	0.47
23:BD:192:LYS:CE	23:BD:193:TYR:HB3	2.44	0.47
18:B3:34:C:C2'	23:BD:49:TYR:HA	2.44	0.47
23:BD:64:TRP:CZ3	23:BD:68:ARG:N	2.83	0.47
23:BD:88:ALA:H	23:BD:92:MET:HB3	1.79	0.47
31:BL:82:LYS:HG3	46:BZ:48:GLY:HA3	1.97	0.47
18:B3:1184:A:O2'	30:BK:86:LYS:CB	2.63	0.47
18:B3:1853:C:O4'	21:BB:237:ILE:CG1	2.62	0.47
18:B3:1874:U:P	21:BB:127:ARG:CB	2.98	0.47
18:B3:1878:G:O2'	18:B3:1879:U:OP2	2.32	0.47
21:BB:89:ALA:CB	21:BB:100:VAL:CG2	2.93	0.47
21:BB:138:HIS:CD2	21:BB:145:THR:CB	2.98	0.47
21:BB:145:THR:HG23	21:BB:145:THR:O	2.15	0.47
21:BB:134:ILE:H	21:BB:148:ARG:HB2	1.79	0.47
21:BB:148:ARG:HA	21:BB:153:ALA:O	2.14	0.47
21:BB:102:PRO:CG	21:BB:162:ARG:HA	2.44	0.47
21:BB:233:LYS:HD2	21:BB:234:ALA:CB	2.44	0.47
19:B4:96:C:H2'	19:B4:97:U:C6	2.50	0.47
25:BF:115:PHE:CZ	25:BF:187:ILE:HG22	2.50	0.47
25:BF:221:HIS:CD2	25:BF:223:ILE:H	2.31	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:487:G:H3'	40:BU:90:VAL:CG2	2.43	0.47
18:B3:2836:G:H4'	18:B3:2837:U:OP1	2.15	0.47
18:B3:2827:A:H3'	22:BC:129:PHE:CD1	2.46	0.47
22:BC:41:ALA:H	22:BC:182:LEU:CB	2.27	0.47
28:BI:99:ILE:HD11	28:BI:121:LYS:CE	2.45	0.47
28:BI:152:LEU:HA	28:BI:155:ALA:HB2	1.88	0.47
28:BI:167:LEU:HD13	28:BI:168:SER:C	2.35	0.47
18:B3:2312:G:C4'	28:BI:22:TYR:CD1	2.94	0.47
26:BG:126:PRO:CG	26:BG:131:VAL:HG11	2.26	0.47
26:BG:135:LEU:CA	26:BG:138:VAL:HG12	2.45	0.47
26:BG:114:ALA:O	26:BG:149:LEU:HB3	2.15	0.47
26:BG:184:ARG:NE	26:BG:184:ARG:HA	2.30	0.47
26:BG:128:PRO:HB2	26:BG:204:ALA:HB3	1.96	0.47
31:BL:158:ARG:NE	31:BL:159:GLU:HB2	2.30	0.47
18:B3:1785:G:HO2'	18:B3:2733:U:P	2.35	0.47
20:BA:12:HIS:NE2	20:BA:205:VAL:HA	2.30	0.47
20:BA:49:PHE:CE1	20:BA:51:GLY:CA	2.98	0.47
39:BT:66:ILE:HG23	39:BT:66:ILE:O	2.15	0.47
39:BT:72:MET:HA	39:BT:75:VAL:HG22	1.96	0.47
14:AN:37:ILE:CG2	14:AN:41:CYS:H	2.18	0.47
1:AA:299:G:N2	1:AA:565:U:O2	2.38	0.47
5:AD:102:GLU:HA	5:AD:190:GLU:CA	2.44	0.47
5:AD:104:PHE:O	5:AD:107:ARG:HB3	2.14	0.47
5:AD:165:GLY:C	5:AD:167:ALA:H	2.18	0.47
5:AD:171:ARG:HG2	5:AD:172:VAL:N	2.29	0.47
8:AH:10:LEU:HD22	8:AH:77:ARG:CD	2.45	0.47
12:AL:59:ILE:HD11	12:AL:117:ILE:CG2	2.45	0.47
2:AT:464:LEU:HD12	2:AT:509:LYS:HB2	1.94	0.47
18:B3:2580:G:OP1	18:B3:2680:A:N7	2.48	0.47
18:B3:2557:U:O4	18:B3:2800:A:N6	2.47	0.47
27:BH:34:LEU:HD11	27:BH:149:ASN:HB2	1.97	0.47
27:BH:69:ARG:HH11	27:BH:69:ARG:HB3	1.79	0.47
32:BM:35:VAL:HG11	32:BM:110:PRO:HD2	1.96	0.47
32:BM:82:ALA:O	32:BM:86:MET:HE2	2.15	0.47
18:B3:1241:G:N2	32:BM:86:MET:HG2	2.28	0.47
35:BP:21:VAL:CG2	35:BP:22:TRP:CZ2	2.92	0.47
18:B3:1232:A:OP2	18:B3:2524:G:H5'	2.15	0.47
18:B3:2382:A:C5	46:BZ:10:TYR:CE2	3.02	0.47
46:BZ:74:VAL:HG23	46:BZ:77:LYS:HZ1	1.79	0.47
1:AA:934:C:C4	1:AA:1345:U:C5	3.03	0.47
1:AA:1483:A:H2'	18:B3:2001:G:N9	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1504:G:OP1	1:AA:1507:A:H8	1.98	0.47
1:AA:519:C:OP2	12:AL:67:ALA:N	2.44	0.47
33:BN:126:ARG:HB2	33:BN:137:LYS:CA	2.45	0.47
25:BF:231:ARG:CB	25:BF:234:PHE:CD1	2.95	0.47
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.50	0.47
18:B3:1607:A:H2'	18:B3:1608:G:O4'	2.15	0.47
2:AT:129:VAL:HG11	2:AT:181:THR:HG23	1.97	0.47
1:AA:1302:U:H2'	13:AM:54:LEU:HD22	1.96	0.47
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.50	0.47
1:AA:1176:A:C2'	9:AI:107:ALA:C	2.83	0.47
1:AA:1148:U:C4'	9:AI:9:PHE:HZ	2.28	0.47
10:AJ:22:ILE:CG2	10:AJ:116:VAL:HG11	2.45	0.47
24:BE:111:GLN:N	24:BE:115:LEU:HG	2.30	0.47
24:BE:43:LYS:HG2	24:BE:44:TYR:N	2.29	0.47
33:BN:63:ASN:N	33:BN:63:ASN:HD22	2.13	0.47
18:B3:745:G:C6	34:BO:91:ALA:CB	2.59	0.47
23:BD:106:ARG:HD3	23:BD:108:TRP:N	2.29	0.47
34:BO:102:ALA:HA	34:BO:122:ILE:O	2.15	0.47
34:BO:123:THR:O	34:BO:124:LEU:HB3	2.14	0.47
34:BO:45:ASN:HA	34:BO:48:VAL:HG11	1.96	0.47
18:B3:2275:G:H4'	31:BL:80:TYR:O	2.15	0.47
18:B3:894:A:P	23:BD:57:HIS:CD2	3.07	0.47
23:BD:75:ARG:CG	23:BD:81:THR:H	2.22	0.47
18:B3:471:G:O3'	45:BY:34:SER:OG	2.32	0.47
18:B3:857:A:O2'	18:B3:858:U:OP1	2.27	0.47
21:BB:10:GLY:N	21:BB:15:PHE:CD2	2.83	0.47
21:BB:119:PRO:HB3	21:BB:160:ASP:CG	2.35	0.47
21:BB:180:LYS:H	21:BB:180:LYS:HD3	1.79	0.47
21:BB:48:VAL:HG22	21:BB:59:LYS:CE	2.43	0.47
25:BF:82:LEU:N	25:BF:82:LEU:HD13	2.30	0.47
16:AQ:133:THR:N	16:AQ:135:ARG:HH21	2.11	0.47
18:B3:952:G:N3	18:B3:2302:A:H2'	2.30	0.47
44:BX:45:LYS:HD3	44:BX:45:LYS:O	2.15	0.47
18:B3:2718:C:P	22:BC:331:ARG:CZ	3.02	0.47
22:BC:109:LEU:O	22:BC:109:LEU:HD13	2.15	0.47
22:BC:121:TRP:CZ2	22:BC:123:LYS:CD	2.97	0.47
22:BC:168:THR:HG22	22:BC:171:ALA:HB3	1.96	0.47
22:BC:173:LYS:NZ	22:BC:174:LYS:HB2	2.29	0.47
28:BI:103:LEU:HB2	28:BI:118:ALA:CA	2.44	0.47
28:BI:105:CYS:HB3	28:BI:115:MET:HE1	1.88	0.47
28:BI:121:LYS:NZ	28:BI:121:LYS:HB2	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2242:U:H3	18:B3:2257:G:N2	2.13	0.47
26:BG:150:VAL:CA	26:BG:198:ALA:HB1	2.45	0.47
18:B3:391:U:C2'	31:BL:195:THR:HG22	2.45	0.47
26:BG:163:VAL:HG13	31:BL:5:TYR:CE2	2.50	0.47
18:B3:1797:A:O3'	35:BP:70:ARG:NE	2.47	0.47
18:B3:1808:C:C5	18:B3:2884:G:O3'	2.68	0.47
29:BJ:169:ASP:O	29:BJ:170:VAL:HB	2.15	0.47
29:BJ:71:ARG:HD2	29:BJ:75:ALA:H	1.80	0.47
29:BJ:83:LEU:HD21	29:BJ:90:LEU:CD2	2.44	0.47
20:BA:49:PHE:CE1	20:BA:51:GLY:N	2.83	0.47
39:BT:85:VAL:HG22	39:BT:86:SER:N	2.18	0.47
18:B3:1675:C:C5'	39:BT:87:MET:CE	2.92	0.47
14:AN:22:VAL:HG12	14:AN:36:ASN:H	1.79	0.47
3:AB:122:VAL:CG2	3:AB:128:ASP:CB	2.93	0.47
5:AD:99:LEU:HD22	5:AD:101:VAL:C	2.35	0.47
3:AB:141:PRO:CD	8:AH:68:LEU:CD1	2.90	0.47
1:AA:382:A:H2'	1:AA:383:A:H8	1.74	0.47
2:AT:108:HIS:CE1	2:AT:540:ILE:CG1	2.88	0.47
18:B3:1114:A:H2'	18:B3:1115:U:H6	1.80	0.47
27:BH:100:ASN:O	27:BH:114:VAL:HA	2.15	0.47
27:BH:129:ARG:CG	27:BH:153:ASP:HB2	2.43	0.47
27:BH:10:ILE:C	27:BH:52:LEU:HD23	2.35	0.47
1:AA:678:U:C2'	11:AK:125:THR:HG21	2.33	0.47
1:AA:1068:G:OP1	1:AA:1388:C:H4'	2.14	0.47
35:BP:22:TRP:CZ2	35:BP:49:ILE:CG2	2.91	0.47
43:BW:59:TRP:CH2	43:BW:66:VAL:CG2	2.93	0.47
46:BZ:65:LYS:HA	46:BZ:66:LYS:HE3	1.97	0.47
1:AA:691:G:O2'	1:AA:797:C:H4'	2.14	0.47
11:AK:56:PRO:CD	11:AK:57:TYR:H	2.28	0.47
21:BB:2:ARG:HB2	21:BB:2:ARG:CZ	2.45	0.47
37:BR:136:VAL:O	37:BR:137:VAL:HB	2.14	0.47
7:AG:138:ASN:OD1	7:AG:202:LYS:HB2	2.15	0.47
1:AA:1111:A:N6	4:AC:161:GLN:CD	2.67	0.47
8:AH:82:ILE:HD11	8:AH:85:ILE:HG23	1.94	0.47
2:AT:584:ASN:HD21	2:AT:700:ARG:HG2	1.79	0.47
26:BG:182:LYS:C	26:BG:194:SER:HB3	2.35	0.47
18:B3:162:C:C2'	18:B3:163:U:H5'	2.43	0.47
18:B3:999:C:O2'	18:B3:1000:C:H5'	2.15	0.47
4:AC:58:LEU:CD1	4:AC:62:GLY:HA2	2.44	0.47
2:AT:576:LEU:HD21	2:AT:585:ARG:HH11	1.80	0.47
7:AG:157:GLN:NE2	7:AG:157:GLN:HA	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:768:A:H2'	1:AA:769:G:O4'	2.14	0.47
18:B3:295:C:O2'	18:B3:296:G:H5'	2.15	0.47
36:BQ:68:THR:O	36:BQ:68:THR:HG23	2.14	0.47
13:AM:42:TYR:N	13:AM:42:TYR:CD1	2.83	0.47
1:AA:956:U:C2'	17:AS:126:VAL:HG11	2.45	0.47
1:AA:1219:U:N3	17:AS:77:ARG:O	2.41	0.47
18:B3:618:G:N3	42:B0:49:ASN:CA	2.77	0.47
18:B3:618:G:N3	42:B0:49:ASN:N	2.63	0.47
1:AA:1249:C:H1'	9:AI:73:HIS:CE1	2.34	0.47
9:AI:9:PHE:CE2	9:AI:16:THR:HB	2.47	0.47
9:AI:28:ILE:HD13	9:AI:48:TYR:CE1	2.47	0.47
9:AI:18:VAL:HG23	9:AI:67:ARG:H	1.79	0.47
24:BE:49:TYR:CG	24:BE:50:ARG:N	2.82	0.47
36:BQ:72:VAL:CG1	36:BQ:91:LEU:HD12	2.44	0.47
33:BN:90:VAL:HG13	33:BN:93:LEU:HD21	1.96	0.47
18:B3:1277:C:O2'	34:BO:31:LYS:CD	2.60	0.47
23:BD:202:ARG:H	23:BD:202:ARG:HH11	1.63	0.47
23:BD:176:ASP:OD1	23:BD:205:LEU:HD12	2.15	0.47
23:BD:37:VAL:HG23	23:BD:234:LEU:CD2	2.41	0.47
18:B3:53:C:O4'	18:B3:121:U:C3'	2.56	0.47
31:BL:74:VAL:HG22	31:BL:75:PRO:N	2.28	0.47
47:B9:26:LYS:H	47:B9:28:LEU:CD1	2.28	0.47
47:B9:47:LYS:CE	47:B9:48:ARG:H	2.27	0.47
47:B9:56:CYS:HB3	47:B9:61:LYS:N	2.29	0.47
21:BB:46:GLN:HG3	21:BB:59:LYS:HD3	1.97	0.47
25:BF:124:GLU:O	25:BF:128:LEU:HG	2.14	0.47
16:AQ:131:SER:C	16:AQ:134:VAL:HG12	2.34	0.47
18:B3:2072:G:C4'	18:B3:2490:A:O2'	2.61	0.47
18:B3:2713:G:P	37:BR:44:SER:CA	3.03	0.47
18:B3:2818:A:C8	22:BC:99:ARG:HA	2.50	0.47
18:B3:2828:G:C4	22:BC:129:PHE:CD2	2.97	0.47
22:BC:118:TYR:CE2	22:BC:133:SER:N	2.82	0.47
18:B3:2913:A:N6	22:BC:123:LYS:HE2	2.29	0.47
22:BC:226:GLU:CG	22:BC:227:GLY:H	2.28	0.47
22:BC:359:ASP:HA	38:BS:16:GLY:N	2.22	0.47
18:B3:2818:A:H5'	22:BC:97:GLY:N	2.30	0.47
28:BI:34:TYR:CB	28:BI:89:VAL:CG2	2.93	0.47
37:BR:125:LEU:O	37:BR:126:TRP:HD1	1.98	0.47
37:BR:54:LEU:HD12	37:BR:78:VAL:HG22	1.94	0.47
37:BR:86:ARG:CG	37:BR:87:ARG:N	2.78	0.47
22:BC:359:ASP:CB	38:BS:16:GLY:N	2.77	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:264:G:O6	26:BG:136:ASN:HB2	2.16	0.47
31:BL:19:ARG:O	31:BL:22:GLN:HB3	2.15	0.47
18:B3:924:G:C5	41:BV:41:ARG:CG	2.81	0.47
29:BJ:16:LEU:HD22	29:BJ:70:VAL:HG12	1.96	0.47
29:BJ:83:LEU:HD21	29:BJ:90:LEU:HD21	1.97	0.47
20:BA:63:MET:HE3	20:BA:159:LEU:O	2.10	0.47
20:BA:41:TYR:CZ	20:BA:163:LEU:HD23	2.49	0.47
3:AB:31:HIS:CD2	8:AH:21:LYS:HG2	2.50	0.47
3:AB:67:PRO:CB	3:AB:183:LEU:HD23	2.43	0.47
3:AB:75:ILE:HG23	3:AB:122:VAL:CG2	2.36	0.47
5:AD:150:LEU:HD23	5:AD:189:ASP:HA	1.96	0.47
5:AD:99:LEU:HD13	5:AD:101:VAL:C	2.34	0.47
1:AA:6:G:C2'	6:AE:196:TYR:HE2	2.25	0.47
12:AL:68:ILE:HG23	12:AL:70:LYS:NZ	2.29	0.47
12:AL:76:LEU:HD22	12:AL:76:LEU:H	1.79	0.47
18:B3:1993:C:N4	37:BR:35:TYR:CZ	2.81	0.47
1:AA:1372:U:O2'	1:AA:1373:G:H5'	2.16	0.47
27:BH:87:LYS:HA	27:BH:146:LEU:O	2.15	0.47
18:B3:2780:C:HO2'	27:BH:159:ALA:HB2	1.74	0.47
18:B3:2460:A:C2'	46:BZ:60:LYS:HD2	2.43	0.47
40:BU:35:LEU:HD21	40:BU:43:TYR:OH	2.15	0.47
41:BV:14:VAL:HG13	41:BV:14:VAL:O	2.14	0.47
1:AA:439:A:C4	1:AA:497:A:C2	3.03	0.47
41:BV:126:ALA:HA	41:BV:146:LEU:HG	1.95	0.47
41:BV:78:TRP:HB3	41:BV:117:ILE:HD13	1.95	0.47
1:AA:518:C:H5''	1:AA:519:C:H6	1.77	0.47
1:AA:111:G:C2'	1:AA:389:A:C4'	2.66	0.47
18:B3:2320:U:H4'	18:B3:2321:A:O4'	2.15	0.47
11:AK:29:VAL:HG12	11:AK:30:THR:N	2.30	0.47
21:BB:201:VAL:HG12	21:BB:216:GLN:CD	2.33	0.47
4:AC:139:GLY:O	4:AC:181:LEU:HD23	2.15	0.47
1:AA:1111:A:H61	4:AC:161:GLN:NE2	2.12	0.47
20:BA:97:LYS:CA	20:BA:100:ILE:HG22	2.45	0.47
46:BZ:44:ARG:HD2	46:BZ:45:LYS:N	2.29	0.47
18:B3:2266:A:H2'	18:B3:2267:G:H8	1.79	0.47
4:AC:69:THR:HG23	4:AC:70:LEU:N	2.30	0.47
12:AL:29:TYR:CB	12:AL:30:LYS:HD2	2.45	0.47
18:B3:1496:G:H5'	18:B3:1572:A:H1'	1.97	0.47
2:AT:644:ASN:ND2	2:AT:684:VAL:H	2.13	0.47
18:B3:1865:A:H2'	18:B3:1866:A:C8	2.50	0.47
43:BW:78:ARG:C	43:BW:78:ARG:HD3	2.35	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1302:U:H5	13:AM:52:VAL:O	1.98	0.46
1:AA:950:U:C6	13:AM:140:THR:HB	2.47	0.46
17:AS:58:LYS:HG2	17:AS:59:LYS:H	1.78	0.46
18:B3:1690:C:C5	33:BN:128:THR:HG22	2.51	0.46
1:AA:1180:A:O4'	9:AI:117:ILE:HD11	2.14	0.46
24:BE:163:LEU:HD23	24:BE:163:LEU:C	2.36	0.46
24:BE:226:TYR:CD2	24:BE:227:LEU:N	2.83	0.46
34:BO:67:ILE:CD1	34:BO:140:LEU:HB3	2.45	0.46
18:B3:894:A:C5'	23:BD:57:HIS:NE2	2.63	0.46
21:BB:175:ASP:OD2	47:B9:68:TYR:CD1	2.68	0.46
21:BB:28:LEU:CD1	21:BB:100:VAL:HG11	2.45	0.46
21:BB:226:ARG:HD2	21:BB:227:GLY:CA	2.45	0.46
25:BF:151:GLY:HA3	25:BF:162:LEU:CD1	2.45	0.46
16:AQ:87:ARG:CD	16:AQ:89:TYR:CD1	2.99	0.46
18:B3:1160:G:N2	18:B3:1206:C:H5	2.07	0.46
18:B3:1730:G:C5'	18:B3:1731:C:C6	2.97	0.46
22:BC:125:LYS:N	22:BC:129:PHE:CZ	2.83	0.46
22:BC:159:VAL:HG12	22:BC:180:ILE:CD1	2.45	0.46
22:BC:231:ARG:CG	22:BC:269:ARG:HH22	2.27	0.46
37:BR:86:ARG:CD	37:BR:86:ARG:N	2.76	0.46
18:B3:2257:G:H4'	18:B3:2259:C:C2	2.49	0.46
26:BG:110:LYS:H	26:BG:118:GLY:N	2.05	0.46
26:BG:165:LEU:HB2	26:BG:166:PRO:CD	2.45	0.46
26:BG:185:LEU:CD2	26:BG:199:LEU:HD21	2.45	0.46
18:B3:391:U:C3'	31:BL:195:THR:O	2.63	0.46
18:B3:1787:C:C2'	18:B3:2882:G:C3'	2.31	0.46
18:B3:2346:C:O4'	29:BJ:64:ILE:CB	2.57	0.46
29:BJ:16:LEU:CD1	29:BJ:75:ALA:CB	2.93	0.46
29:BJ:95:PHE:CB	29:BJ:101:PHE:N	2.78	0.46
18:B3:2165:G:C2'	20:BA:33:GLU:HB3	2.45	0.46
20:BA:51:GLY:N	20:BA:54:LYS:HB3	2.29	0.46
18:B3:1672:G:C4'	39:BT:91:LYS:CG	2.93	0.46
4:AC:39:ARG:H	4:AC:46:GLU:HB2	1.78	0.46
1:AA:620:C:O4'	5:AD:129:ILE:CG2	2.63	0.46
3:AB:89:ALA:HB1	3:AB:96:PRO:HD3	1.97	0.46
5:AD:110:GLN:HG3	5:AD:126:ARG:CA	2.45	0.46
1:AA:525:C:HO2'	1:AA:526:C:H5'	1.80	0.46
27:BH:161:LEU:C	27:BH:164:ILE:HG13	2.35	0.46
27:BH:94:TYR:N	27:BH:94:TYR:CD2	2.82	0.46
32:BM:35:VAL:HG11	32:BM:109:PRO:CB	2.45	0.46
32:BM:72:PHE:CD1	32:BM:77:ARG:HB3	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:52:LYS:HG2	35:BP:53:ALA:H	1.78	0.46
1:AA:1406:U:C2	1:AA:1518:A:H5'	2.50	0.46
18:B3:2854:A:P	22:BC:170:LEU:HD12	2.55	0.46
1:AA:1344:C:C5'	9:AI:136:ARG:CB	2.92	0.46
41:BV:6:LYS:HD3	41:BV:6:LYS:N	2.31	0.46
1:AA:925:G:C5'	1:AA:1399:C:P	2.89	0.46
18:B3:499:G:HO2'	33:BN:19:SER:N	2.13	0.46
20:BA:44:GLN:HA	20:BA:134:PHE:O	2.14	0.46
9:AI:52:LEU:HD23	9:AI:57:ASP:OD1	2.15	0.46
2:AT:21:ASN:ND2	2:AT:345:PRO:HG3	2.29	0.46
2:AT:491:VAL:HA	2:AT:559:PRO:HD3	1.96	0.46
2:AT:394:PHE:N	2:AT:394:PHE:CD2	2.83	0.46
13:AM:49:LYS:CE	13:AM:49:LYS:HA	2.45	0.46
1:AA:909:A:H2'	1:AA:910:C:O4'	2.15	0.46
1:AA:1451:A:O2'	1:AA:1452:C:OP1	2.30	0.46
47:B9:81:THR:HG23	47:B9:81:THR:O	2.14	0.46
1:AA:1300:G:O2'	1:AA:1301:U:P	2.73	0.46
1:AA:1321:C:C4	17:AS:117:GLY:N	2.58	0.46
1:AA:954:G:H2'	1:AA:955:U:H6	1.81	0.46
13:AM:105:VAL:O	13:AM:108:LYS:HB3	2.14	0.46
17:AS:119:PHE:CD1	17:AS:119:PHE:N	2.83	0.46
33:BN:130:ARG:HH11	33:BN:130:ARG:HB3	1.80	0.46
18:B3:1415:G:H8	45:BY:11:HIS:NE2	2.10	0.46
7:AG:108:LYS:H	7:AG:108:LYS:HD2	1.81	0.46
10:AJ:52:LYS:CD	10:AJ:91:ILE:CG2	2.93	0.46
24:BE:111:GLN:NE2	24:BE:142:PHE:HE2	2.13	0.46
24:BE:201:GLY:O	24:BE:203:HIS:HD2	1.98	0.46
24:BE:55:PHE:CE2	24:BE:158:ARG:CB	2.92	0.46
24:BE:51:LEU:HA	24:BE:64:ILE:HD12	1.98	0.46
36:BQ:27:LEU:CD1	36:BQ:27:LEU:H	2.28	0.46
18:B3:1370:G:H8	33:BN:27:ASN:CG	2.02	0.46
18:B3:1321:A:H2'	18:B3:1322:G:C8	2.50	0.46
18:B3:1347:U:O2'	23:BD:241:ALA:C	2.53	0.46
23:BD:124:ALA:CB	23:BD:234:LEU:CD1	2.93	0.46
21:BB:124:ALA:O	21:BB:125:LEU:HD12	2.13	0.46
21:BB:162:ARG:HD2	21:BB:163:GLY:CA	2.45	0.46
21:BB:100:VAL:HA	21:BB:163:GLY:O	2.16	0.46
21:BB:22:ARG:H	21:BB:22:ARG:HD3	1.79	0.46
18:B3:945:U:C4'	25:BF:125:LEU:HD23	2.45	0.46
18:B3:949:U:C4'	36:BQ:100:LYS:CA	2.93	0.46
18:B3:67:A:O2'	39:BT:60:LYS:CD	2.55	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2709:G:C8	37:BR:7:GLN:CD	2.88	0.46
18:B3:2809:G:H4'	22:BC:18:ARG:NH2	2.12	0.46
18:B3:1735:C:C5'	22:BC:244:GLY:HA2	2.34	0.46
22:BC:277:ILE:HG22	22:BC:278:ASN:CG	2.36	0.46
22:BC:44:SER:HB3	22:BC:338:ARG:O	2.14	0.46
28:BI:6:ALA:HB1	28:BI:10:ARG:CZ	2.46	0.46
28:BI:70:ILE:CD1	28:BI:74:LYS:HG2	2.43	0.46
18:B3:2721:U:H4'	38:BS:21:PHE:CD2	2.42	0.46
18:B3:2238:A:C2'	18:B3:2239:C:H5'	2.45	0.46
18:B3:2334:C:H5''	29:BJ:111:LEU:N	2.30	0.46
29:BJ:141:LYS:O	29:BJ:142:ARG:HB3	2.16	0.46
18:B3:2164:G:OP1	20:BA:162:VAL:CG1	2.56	0.46
3:AB:122:VAL:HG21	3:AB:128:ASP:HB3	1.98	0.46
3:AB:139:ASN:C	8:AH:68:LEU:HG	2.35	0.46
3:AB:75:ILE:HG23	3:AB:75:ILE:O	2.15	0.46
12:AL:72:VAL:HG23	12:AL:72:VAL:O	2.14	0.46
2:AT:114:GLU:CG	2:AT:537:HIS:CE1	2.85	0.46
27:BH:154:VAL:HG23	27:BH:155:SER:N	2.29	0.46
27:BH:160:ASP:CA	27:BH:163:GLN:HG3	2.44	0.46
18:B3:2457:U:O2'	46:BZ:84:LEU:CD2	2.63	0.46
18:B3:2459:G:C3'	46:BZ:66:LYS:HE3	2.46	0.46
18:B3:2436:U:O2'	46:BZ:80:ALA:CB	2.63	0.46
1:AA:633:G:H2'	1:AA:634:C:C6	2.51	0.46
18:B3:80:A:P	40:BU:74:TYR:OH	2.74	0.46
40:BU:100:HIS:CB	40:BU:101:PRO:CA	2.94	0.46
40:BU:58:VAL:N	40:BU:67:GLU:HG2	2.30	0.46
40:BU:63:LYS:HZ1	40:BU:97:ILE:CD1	2.28	0.46
1:AA:358:U:O3'	2:AT:390:ASP:C	2.54	0.46
45:BY:7:PHE:CD1	45:BY:8:GLY:N	2.83	0.46
42:B0:61:LYS:CE	42:B0:62:LYS:HG3	2.45	0.46
3:AB:38:ASN:O	3:AB:46:VAL:HG12	2.15	0.46
18:B3:2748:G:H4'	18:B3:2749:U:H5'	1.96	0.46
1:AA:1067:A:H5''	1:AA:1387:G:C4'	2.44	0.46
4:AC:43:THR:CB	4:AC:81:GLY:HA3	2.43	0.46
1:AA:458:C:H2'	1:AA:459:G:O4'	2.15	0.46
1:AA:975:A:H4'	1:AA:976:G:H5'	1.96	0.46
18:B3:1015:C:H2'	18:B3:1016:U:C6	2.50	0.46
1:AA:606:G:H2'	1:AA:631:G:N2	2.30	0.46
1:AA:190(I):G:O2'	1:AA:190(J):U:H5'	2.16	0.46
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.50	0.46
1:AA:820:U:H4'	1:AA:821:G:OP2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1345:A:H2'	18:B3:1346:U:C6	2.51	0.46
18:B3:1544:U:O2'	18:B3:1545:C:H5'	2.15	0.46
1:AA:1222:G:O3'	17:AS:98:ASN:HB3	2.15	0.46
13:AM:94:ASP:CG	13:AM:134:ARG:NH2	2.51	0.46
9:AI:47:VAL:HG13	9:AI:80:ILE:C	2.35	0.46
10:AJ:41:ILE:HG22	10:AJ:52:LYS:HZ3	1.80	0.46
24:BE:111:GLN:HA	24:BE:115:LEU:HB2	1.98	0.46
24:BE:103:LEU:HD11	24:BE:226:TYR:CG	2.50	0.46
24:BE:59:ASP:O	24:BE:60:ILE:HD13	2.14	0.46
24:BE:63:GLN:O	24:BE:64:ILE:HB	2.15	0.46
24:BE:58:LYS:CA	24:BE:93:THR:HB	2.37	0.46
18:B3:1310:U:OP2	23:BD:203:GLY:CA	2.59	0.46
18:B3:516:A:H2	18:B3:1318:A:N1	2.13	0.46
18:B3:750:A:O4'	23:BD:116:GLU:HB2	2.14	0.46
34:BO:25:TYR:CD1	34:BO:26:LEU:N	2.83	0.46
18:B3:657:G:P	34:BO:25:TYR:OH	2.73	0.46
34:BO:79:LYS:HG3	34:BO:138:LEU:CD1	2.45	0.46
21:BB:138:HIS:HD2	21:BB:145:THR:CA	2.23	0.46
21:BB:188:TYR:CD2	21:BB:189:ARG:N	2.83	0.46
18:B3:1098:A:OP2	25:BF:216:PRO:HA	2.15	0.46
25:BF:235:ILE:O	25:BF:239:VAL:HB	2.15	0.46
22:BC:98:LEU:HD12	22:BC:155:SER:CB	2.45	0.46
18:B3:2809:G:P	22:BC:273:SER:O	2.71	0.46
22:BC:301:LYS:HD3	22:BC:302:LYS:NZ	2.29	0.46
22:BC:49:LYS:CG	22:BC:333:ARG:N	2.78	0.46
28:BI:85:PHE:HB3	28:BI:140:THR:OG1	2.14	0.46
18:B3:2714:U:H5''	37:BR:45:ARG:HH12	1.32	0.46
22:BC:71:VAL:HG21	37:BR:87:ARG:HD3	1.68	0.46
18:B3:2244:A:H62	18:B3:2257:G:N2	2.13	0.46
26:BG:149:LEU:CD1	26:BG:214:VAL:HG11	2.45	0.46
26:BG:210:LEU:O	26:BG:211:ALA:HB3	2.15	0.46
31:BL:63:VAL:CG2	31:BL:105:VAL:HG21	2.45	0.46
31:BL:163:LEU:HD11	31:BL:164:THR:HG22	1.93	0.46
31:BL:35:ILE:HG12	31:BL:108:ARG:HG2	1.97	0.46
41:BV:27:HIS:CB	41:BV:28:PRO:HA	2.30	0.46
18:B3:2350:G:O2'	18:B3:2351:C:H5'	2.15	0.46
29:BJ:69:THR:C	29:BJ:70:VAL:HG22	2.23	0.46
29:BJ:92:ASP:HB3	29:BJ:93:ARG:H	1.29	0.46
18:B3:2216:A:O2'	18:B3:2217:U:H6	1.98	0.46
20:BA:54:LYS:HE3	20:BA:156:LYS:CB	2.45	0.46
20:BA:176:GLU:O	20:BA:180:VAL:HG23	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:102:TYR:CD1	39:BT:102:TYR:N	2.82	0.46
1:AA:621:A:OP2	5:AD:143:ILE:CD1	2.61	0.46
8:AH:70:LYS:HG3	8:AH:71:CYS:H	1.79	0.46
6:AE:156:LYS:HB3	8:AH:95:ALA:HB1	1.96	0.46
1:AA:99:C:O2'	1:AA:101:A:C5	2.69	0.46
41:BV:23:LYS:HD2	41:BV:24:HIS:O	2.15	0.46
18:B3:2561:C:O4'	18:B3:2777:G:H4'	2.16	0.46
27:BH:161:LEU:O	27:BH:179:ILE:HD11	2.15	0.46
27:BH:64:HIS:CB	32:BM:127:ARG:HB2	2.25	0.46
32:BM:17:ARG:HH11	32:BM:17:ARG:HG3	1.79	0.46
18:B3:1232:A:C8	18:B3:2525:G:C5'	2.72	0.46
1:AA:1377:A:C5	7:AG:76:TYR:HD2	2.25	0.46
1:AA:792:A:H1'	1:AA:794:A:N7	2.30	0.46
18:B3:2854:A:OP1	22:BC:170:LEU:HD12	2.16	0.46
40:BU:58:VAL:HG21	40:BU:63:LYS:O	2.15	0.46
40:BU:31:LEU:HD21	40:BU:78:PHE:HB3	1.96	0.46
18:B3:903:U:O4	41:BV:15:SER:OG	2.33	0.46
1:AA:499:A:H2	1:AA:546:G:HO2'	1.61	0.46
41:BV:95:LYS:CE	41:BV:96:GLU:H	2.29	0.46
2:AT:737:GLU:HB2	2:AT:766:PHE:HE2	1.80	0.46
18:B3:21:G:H5'	33:BN:5:ALA:N	2.30	0.46
18:B3:148:A:C5'	45:BY:41:ALA:O	2.60	0.46
18:B3:218:C:N4	41:BV:54:LYS:HZ2	2.13	0.46
2:AT:29:ASP:CG	18:B3:2693:U:OP2	2.54	0.46
4:AC:137:VAL:CG2	4:AC:149:MET:HG2	2.45	0.46
24:BE:219:PHE:HD1	24:BE:222:LEU:CB	2.29	0.46
12:AL:101:GLU:CA	12:AL:132:LEU:HD23	2.45	0.46
18:B3:1605:G:H5''	18:B3:1605:G:C8	2.50	0.46
18:B3:2205:G:C6	18:B3:2206:C:N3	2.84	0.46
7:AG:220:ALA:C	7:AG:222:SER:H	2.18	0.46
4:AC:33:TYR:CE1	4:AC:35:GLY:HA2	2.49	0.46
18:B3:2871:G:H2'	18:B3:2872:U:C6	2.51	0.46
18:B3:1109:U:OP1	18:B3:1110:G:H5''	2.15	0.46
1:AA:269:C:H2'	1:AA:270:A:C8	2.50	0.46
18:B3:425:U:O2'	18:B3:426:G:H5'	2.15	0.46
18:B3:2105:C:H2'	18:B3:2106:C:C6	2.51	0.46
1:AA:1331:G:C5	13:AM:41:ARG:CB	2.72	0.46
1:AA:956:U:O2'	17:AS:126:VAL:CG1	2.56	0.46
1:AA:1298:C:OP1	13:AM:56:LYS:CA	2.63	0.46
18:B3:882:A:C4'	45:BY:2:LYS:HB2	2.45	0.46
18:B3:777:U:O2	45:BY:12:ASN:ND2	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:541:C:OP2	42:B0:16:LYS:O	2.34	0.46
1:AA:1118:C:H5''	9:AI:118:ALA:HB1	1.92	0.46
1:AA:1291:G:P	7:AG:111:ARG:NH1	2.89	0.46
18:B3:2296:C:H6	36:BQ:4:SER:N	2.12	0.46
24:BE:138:GLY:HA2	24:BE:139:PRO:HD2	1.69	0.46
24:BE:201:GLY:O	24:BE:204:VAL:HG12	2.15	0.46
24:BE:211:LEU:HD23	24:BE:212:ALA:O	2.16	0.46
19:B4:119:C:O2	24:BE:72:ASP:O	2.34	0.46
18:B3:2841:A:C2	33:BN:68:ARG:HB2	2.50	0.46
42:B0:72:LYS:H	42:B0:90:LYS:CB	2.29	0.46
23:BD:192:LYS:HD2	23:BD:193:TYR:HB3	1.97	0.46
23:BD:63:SER:HB2	23:BD:74:PRO:CA	2.31	0.46
23:BD:97:ARG:HG2	23:BD:98:MET:H	1.79	0.46
18:B3:51:G:H4'	45:BY:20:ARG:CA	2.45	0.46
30:BK:107:ASP:O	30:BK:111:GLU:HG2	2.15	0.46
18:B3:1938:G:H21	21:BB:241:ARG:H	1.62	0.46
21:BB:45:LYS:CB	21:BB:71:ARG:CZ	2.93	0.46
18:B3:946:C:H2'	18:B3:947:U:C6	2.51	0.46
25:BF:179:SER:HA	25:BF:183:LEU:CD1	2.45	0.46
1:AA:132:C:OP2	16:AQ:128:ARG:NH1	2.48	0.46
1:AA:538:G:H5''	12:AL:141:GLU:HA	1.65	0.46
18:B3:1160:G:H21	18:B3:1207:A:H62	1.63	0.46
44:BX:12:LYS:HB3	44:BX:16:GLN:HB3	1.98	0.46
18:B3:2820:A:H4'	22:BC:89:VAL:HA	1.96	0.46
18:B3:2847:G:H3'	22:BC:172:GLN:HG3	1.97	0.46
22:BC:159:VAL:CG1	22:BC:180:ILE:CD1	2.93	0.46
22:BC:46:LEU:HD23	22:BC:336:THR:HB	1.96	0.46
22:BC:42:LEU:CD1	22:BC:85:VAL:HG11	2.45	0.46
28:BI:138:VAL:CG1	28:BI:139:ARG:N	2.79	0.46
37:BR:118:VAL:HG22	37:BR:135:VAL:O	2.15	0.46
38:BS:33:ASN:HD22	38:BS:33:ASN:HA	1.58	0.46
18:B3:2242:U:H3	18:B3:2257:G:H22	1.63	0.46
26:BG:135:LEU:HA	26:BG:138:VAL:HG12	1.97	0.46
31:BL:42:THR:HG22	31:BL:43:ARG:NH1	2.28	0.46
29:BJ:83:LEU:HD21	29:BJ:90:LEU:CD1	2.45	0.46
3:AB:143:ILE:HG22	3:AB:157:VAL:CB	2.22	0.46
6:AE:157:THR:OG1	8:AH:127:PHE:HZ	1.96	0.46
8:AH:16:ALA:CB	8:AH:24:VAL:CG2	2.94	0.46
8:AH:33:ILE:HD13	8:AH:33:ILE:C	2.36	0.46
1:AA:58:C:O2'	1:AA:59:A:H5'	2.16	0.46
2:AT:539:GLU:O	2:AT:543:GLN:HG3	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2575:C:H2'	18:B3:2576:A:O4'	2.16	0.46
27:BH:41:ILE:HG13	32:BM:125:VAL:CG2	2.34	0.46
46:BZ:25:THR:HG23	46:BZ:26:GLN:N	2.30	0.46
40:BU:22:ALA:HB1	40:BU:23:PRO:CD	2.35	0.46
40:BU:50:ILE:CG2	40:BU:70:ILE:CD1	2.93	0.46
2:AT:737:GLU:C	18:B3:1199:A:N1	2.69	0.46
1:AA:948:C:C2'	13:AM:141:THR:HG23	2.45	0.46
1:AA:123:C:O2'	1:AA:289:G:N3	2.38	0.46
40:BU:14:LYS:CG	40:BU:17:LYS:HD3	2.46	0.46
18:B3:2019:A:N9	47:B9:17:TYR:OH	2.48	0.46
11:AK:55:SER:O	11:AK:58:ALA:HB3	2.15	0.46
18:B3:2251:G:C6	18:B3:2252:A:C6	3.04	0.46
3:AB:27:ASN:O	3:AB:28:VAL:HB	2.16	0.46
6:AE:129:ILE:HG23	6:AE:130:ILE:N	2.29	0.46
4:AC:105:LYS:CG	4:AC:183:ILE:CG2	2.92	0.46
32:BM:114:LYS:C	32:BM:115:LYS:HD2	2.35	0.46
21:BB:36:ARG:CD	21:BB:36:ARG:H	2.29	0.46
30:BK:93:LYS:HE3	30:BK:96:LYS:HB2	1.96	0.46
37:BR:104:ASN:CG	37:BR:105:PRO:HD2	2.36	0.46
1:AA:1039:C:O2'	1:AA:1040:U:H5'	2.15	0.46
18:B3:939:A:O2'	18:B3:940:G:P	2.74	0.46
1:AA:976:G:C8	1:AA:1358:U:C2	3.04	0.46
24:BE:215:ASP:HB3	24:BE:217:GLU:OE1	2.16	0.46
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.81	0.46
23:BD:182:LYS:HD3	23:BD:182:LYS:O	2.15	0.46
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.50	0.46
18:B3:2005:G:H3'	18:B3:2005:G:OP2	2.14	0.46
21:BB:30:THR:HG23	21:BB:30:THR:O	2.16	0.46
1:AA:1296:C:H4'	1:AA:1302:U:C5	2.51	0.46
1:AA:1329:A:H2	13:AM:93:THR:CA	2.19	0.46
1:AA:1305:G:N2	1:AA:1331:G:C2'	2.78	0.46
18:B3:841:A:C2'	33:BN:131:ALA:HB1	2.44	0.46
18:B3:1088:A:HO2'	18:B3:1089:G:H5''	1.80	0.46
1:AA:1175:G:C5	9:AI:109:THR:HG23	2.51	0.46
9:AI:89:VAL:CA	9:AI:96:VAL:HG21	2.45	0.46
10:AJ:45:ALA:HB1	10:AJ:93:LEU:HD21	1.96	0.46
19:B4:11:A:N7	24:BE:16:PHE:N	2.62	0.46
19:B4:34:A:H2'	24:BE:185:PHE:CD1	2.50	0.46
19:B4:50:G:O6	24:BE:57:ASN:HA	2.15	0.46
18:B3:2047:C:O2'	18:B3:2841:A:C1'	2.64	0.46
18:B3:1343:C:O2	23:BD:188:ALA:N	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1310:U:C5	23:BD:181:LEU:HD12	2.49	0.46
34:BO:59:ARG:CG	34:BO:85:GLY:CA	2.93	0.46
18:B3:771:G:OP1	31:BL:76:LYS:HG3	2.15	0.46
45:BY:21:CYS:SG	45:BY:38:TYR:CE2	3.07	0.46
18:B3:1183:C:O4'	30:BK:104:ILE:CA	2.57	0.46
47:B9:20:SER:H	47:B9:22:ARG:HB3	1.80	0.46
47:B9:54:TRP:CZ2	47:B9:65:GLY:CA	2.96	0.46
47:B9:68:TYR:CG	47:B9:68:TYR:O	2.65	0.46
21:BB:145:THR:HG22	21:BB:157:ILE:C	2.35	0.46
21:BB:166:GLY:O	21:BB:167:VAL:HB	2.15	0.46
18:B3:1287:A:H62	25:BF:201:LEU:HD11	1.81	0.46
25:BF:167:ILE:HG22	25:BF:168:ILE:CD1	2.17	0.46
25:BF:99:ARG:O	25:BF:99:ARG:HD3	2.15	0.46
1:AA:265:G:C2'	1:AA:266:G:H5'	2.45	0.46
18:B3:67:A:C2'	39:BT:60:LYS:HZ2	2.27	0.46
18:B3:2652:U:N1	22:BC:257:ALA:CB	2.75	0.46
22:BC:42:LEU:HD23	22:BC:45:PHE:HD2	1.79	0.46
22:BC:45:PHE:O	22:BC:338:ARG:HB2	2.16	0.46
28:BI:164:LYS:HG3	28:BI:166:ILE:H	1.81	0.46
37:BR:7:GLN:HG3	37:BR:8:GLY:N	2.31	0.46
37:BR:91:VAL:HG23	38:BS:17:ARG:HA	1.89	0.46
26:BG:139:VAL:HG21	26:BG:164:PHE:HE1	1.80	0.46
26:BG:149:LEU:CD2	26:BG:210:LEU:CG	2.92	0.46
31:BL:104:ARG:HH21	31:BL:107:ARG:HB2	1.80	0.46
35:BP:80:ARG:CG	35:BP:87:ARG:CD	2.93	0.46
18:B3:1801:A:C5'	35:BP:88:LEU:CD1	2.53	0.46
29:BJ:48:LYS:HB3	29:BJ:48:LYS:HZ2	1.80	0.46
29:BJ:83:LEU:HD12	29:BJ:167:ASP:OD2	2.15	0.46
20:BA:30:GLU:HB3	20:BA:209:SER:H	1.79	0.46
18:B3:1675:C:OP2	39:BT:120:LYS:O	2.33	0.46
5:AD:175:ARG:CB	5:AD:191:ALA:HB2	2.45	0.46
5:AD:97:LEU:O	5:AD:105:LEU:HG	2.15	0.46
8:AH:125:LEU:HD12	8:AH:125:LEU:H	1.81	0.46
6:AE:221:TYR:N	8:AH:99:GLY:CA	2.74	0.46
1:AA:33:A:H5'	1:AA:365:U:O4'	2.16	0.46
1:AA:554:C:C5'	12:AL:45:GLY:N	2.79	0.46
18:B3:2579:G:C4'	18:B3:2680:A:C4	2.88	0.46
27:BH:26:LYS:CE	27:BH:26:LYS:H	2.18	0.46
27:BH:29:GLY:CA	27:BH:82:VAL:HG22	2.45	0.46
1:AA:920:U:H2'	1:AA:921:U:C6	2.50	0.46
35:BP:19:ARG:NE	35:BP:20:LYS:HG3	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.46
1:AA:1351:U:H2'	1:AA:1352:C:C6	2.43	0.46
40:BU:118:LEU:C	40:BU:120:GLN:H	2.19	0.46
8:AH:67:ARG:CG	8:AH:73:VAL:HG22	2.46	0.46
2:AT:607:ASN:HB2	2:AT:610:ASP:OD2	2.15	0.46
18:B3:728:C:H2'	18:B3:729:C:H6	1.81	0.46
18:B3:2589:U:H2'	18:B3:2590:U:C6	2.50	0.46
7:AG:78:ASN:H	7:AG:78:ASN:HD22	1.63	0.46
1:AA:1220:G:O2'	17:AS:96:ILE:CA	2.61	0.46
1:AA:951:G:O2'	1:AA:952:U:H5'	2.16	0.46
13:AM:37:GLY:CA	13:AM:101:LEU:HD22	2.43	0.46
18:B3:537:G:H4'	42:B0:21:HIS:NE2	2.22	0.46
1:AA:1179:A:P	9:AI:116:LEU:O	2.74	0.46
1:AA:1291:G:OP1	7:AG:111:ARG:CZ	2.63	0.46
7:AG:111:ARG:HG2	9:AI:43:LEU:HD21	1.96	0.46
9:AI:25:LYS:HB3	9:AI:27:LEU:HD22	1.98	0.46
1:AA:1153:C:P	10:AJ:31:VAL:HG21	2.54	0.46
10:AJ:61:LYS:HZ3	10:AJ:86:ILE:C	2.19	0.46
33:BN:148:VAL:C	33:BN:149:VAL:HG13	2.36	0.46
33:BN:85:LYS:HE3	33:BN:88:LYS:NZ	2.29	0.46
33:BN:97:ALA:HA	33:BN:100:ASN:OD1	2.16	0.46
18:B3:657:G:H2'	18:B3:658:C:C6	2.51	0.46
18:B3:721:A:C5'	34:BO:72:LYS:N	2.70	0.46
18:B3:35:U:O4'	23:BD:49:TYR:HA	2.15	0.46
18:B3:710:G:C4'	34:BO:44:PHE:HE2	2.29	0.46
21:BB:106:VAL:CG1	21:BB:135:ILE:CD1	2.94	0.46
21:BB:236:LEU:HB3	21:BB:239:ALA:HB2	1.98	0.46
21:BB:9:LYS:HA	21:BB:15:PHE:CD2	2.49	0.46
25:BF:84:PHE:HB2	25:BF:138:PRO:CG	2.46	0.46
25:BF:164:ASP:HB3	25:BF:180:ILE:HG21	1.95	0.46
18:B3:71:G:N2	44:BX:56:THR:CG2	2.78	0.46
18:B3:1733:A:H5'	22:BC:225:PHE:O	2.15	0.46
22:BC:229:THR:CG2	22:BC:246:ARG:CB	2.94	0.46
18:B3:2547:C:C5'	22:BC:246:ARG:HH12	2.28	0.46
22:BC:56:VAL:CG1	22:BC:69:ARG:CG	2.93	0.46
28:BI:48:LEU:CD2	28:BI:139:ARG:HB2	2.29	0.46
26:BG:117:GLU:HB2	26:BG:213:LEU:HD13	1.98	0.46
26:BG:117:GLU:CB	26:BG:213:LEU:HD13	2.45	0.46
31:BL:115:LEU:HD23	31:BL:115:LEU:HA	1.61	0.46
31:BL:119:TRP:C	31:BL:119:TRP:HE3	2.19	0.46
1:AA:1240:U:C5'	7:AG:188:THR:CG2	2.94	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:71:ARG:N	29:BJ:71:ARG:CD	2.74	0.46
20:BA:49:PHE:O	20:BA:154:THR:HB	2.15	0.46
39:BT:66:ILE:HB	39:BT:120:LYS:HZ3	1.81	0.46
10:AJ:70:THR:OG1	10:AJ:71:PRO:HD2	2.16	0.46
14:AN:35:LEU:O	14:AN:36:ASN:HB2	2.15	0.46
3:AB:135:ALA:O	3:AB:138:VAL:HG12	2.15	0.46
3:AB:59:ALA:CB	3:AB:157:VAL:HG11	2.46	0.46
8:AH:13:ILE:CG2	8:AH:77:ARG:HH22	2.27	0.46
12:AL:76:LEU:HD23	12:AL:81:LYS:O	2.15	0.46
1:AA:151:A:H2'	1:AA:152:A:O4'	2.15	0.46
1:AA:61:G:H2'	1:AA:62:U:O4'	2.14	0.46
37:BR:101:VAL:O	37:BR:101:VAL:HG13	2.16	0.46
37:BR:39:VAL:HG12	37:BR:58:VAL:CB	2.46	0.46
18:B3:1117:A:H1'	18:B3:1227:C:O5'	2.16	0.46
27:BH:43:VAL:HG11	32:BM:127:ARG:H	1.81	0.46
18:B3:1396:C:H1'	35:BP:2:ASN:HD22	1.80	0.46
35:BP:9:LEU:CG	35:BP:37:ARG:HE	2.28	0.46
43:BW:52:PRO:HB3	43:BW:56:GLN:NE2	2.31	0.46
43:BW:58:ILE:CG1	43:BW:59:TRP:NE1	2.78	0.46
18:B3:697:G:OP1	41:BV:130:SER:OG	2.33	0.46
41:BV:81:ILE:CG2	41:BV:82:PRO:N	2.78	0.46
1:AA:947:G:H2'	1:AA:948:C:O4'	2.16	0.46
1:AA:1408:A:O4'	18:B3:1960:A:P	2.74	0.46
11:AK:57:TYR:CE1	11:AK:61:LEU:HD11	2.50	0.46
4:AC:114:ILE:HG13	4:AC:137:VAL:HG21	1.98	0.46
18:B3:1527:A:C2	18:B3:1528:A:C5	3.03	0.46
32:BM:98:LEU:CA	32:BM:101:LEU:CD1	2.93	0.46
34:BO:51:ALA:CB	34:BO:84:VAL:HG21	2.29	0.46
20:BA:190:PHE:HE2	20:BA:197:ASN:O	1.98	0.46
1:AA:838:G:C3'	1:AA:839:U:H5''	2.44	0.46
37:BR:123:ALA:HA	37:BR:130:ALA:HB2	1.97	0.46
7:AG:213:LYS:HE2	7:AG:217:GLU:CD	2.36	0.46
2:AT:552:VAL:CG1	2:AT:553:PRO:HD2	2.45	0.46
18:B3:683:G:O2'	18:B3:684:G:H5'	2.16	0.46
18:B3:2871:G:H2'	18:B3:2872:U:H6	1.80	0.46
11:AK:22:PHE:CE1	11:AK:86:GLY:HA2	2.51	0.46
18:B3:2129:U:H2'	18:B3:2130:C:C6	2.50	0.46
18:B3:550:C:O2'	18:B3:551:A:H5'	2.14	0.46
18:B3:141:C:C2'	18:B3:141:C:O2	2.63	0.46
1:AA:987:G:C2	1:AA:1014:A:N3	2.84	0.46
13:AM:28:ILE:HG13	13:AM:32:LEU:HD11	1.95	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1308:U:C2'	13:AM:92:ILE:HA	2.46	0.46
18:B3:2060:A:C2'	42:B0:24:ARG:HD3	2.35	0.46
18:B3:537:G:H2'	42:B0:41:VAL:HG12	1.89	0.46
1:AA:1180:A:OP1	9:AI:117:ILE:HG21	2.15	0.46
1:AA:1256:A:O2'	1:AA:1257:U:P	2.74	0.46
9:AI:43:LEU:H	9:AI:43:LEU:CD2	2.29	0.46
9:AI:47:VAL:HG11	9:AI:80:ILE:HB	1.96	0.46
24:BE:12:TYR:CG	24:BE:13:SER:N	2.83	0.46
24:BE:188:GLU:HA	24:BE:198:TYR:CG	2.49	0.46
36:BQ:75:ILE:HB	36:BQ:89:LEU:CB	2.46	0.46
33:BN:94:LEU:O	33:BN:94:LEU:HD22	2.16	0.46
23:BD:190:LYS:CD	23:BD:193:TYR:CE1	2.98	0.46
23:BD:205:LEU:CG	23:BD:206:VAL:HG23	2.30	0.46
34:BO:60:PRO:HB2	34:BO:61:PRO:C	2.36	0.46
34:BO:67:ILE:HG22	34:BO:67:ILE:O	2.14	0.46
18:B3:894:A:OP2	23:BD:57:HIS:HB3	2.16	0.46
18:B3:2274:A:H4'	31:BL:77:GLY:HA2	1.98	0.46
45:BY:32:THR:HB	45:BY:38:TYR:CG	2.49	0.46
30:BK:125:LEU:HD13	30:BK:129:THR:CG2	2.45	0.46
18:B3:1163:G:O2'	30:BK:53:PHE:N	2.49	0.46
30:BK:85:LEU:HD21	30:BK:102:GLY:HA3	1.98	0.46
25:BF:101:VAL:HG23	25:BF:125:LEU:HD13	1.97	0.46
25:BF:153:GLY:N	25:BF:200:PHE:HB2	2.31	0.46
25:BF:99:ARG:C	25:BF:99:ARG:HD3	2.36	0.46
16:AQ:124:VAL:HG22	16:AQ:136:PHE:CD2	2.49	0.46
44:BX:10:ARG:HH22	44:BX:11:THR:HB	1.81	0.46
18:B3:1133:A:N6	18:B3:2501:G:O4'	2.49	0.46
18:B3:2499:U:O2'	18:B3:2500:C:H5'	2.16	0.46
18:B3:2670:G:O2'	22:BC:160:LEU:HD12	2.15	0.46
22:BC:172:GLN:CG	22:BC:173:LYS:CE	2.94	0.46
22:BC:220:THR:CG2	22:BC:272:HIS:HB2	2.45	0.46
18:B3:2837:U:O2	22:BC:334:ILE:HG13	2.15	0.46
22:BC:46:LEU:HG	22:BC:47:GLY:N	2.31	0.46
28:BI:66:GLU:CA	28:BI:69:ARG:CZ	2.94	0.46
28:BI:9:TYR:HD2	28:BI:97:LEU:HD22	1.80	0.46
26:BG:159:ILE:HG23	26:BG:161:LEU:HG	1.97	0.46
31:BL:104:ARG:NE	31:BL:104:ARG:HA	2.31	0.46
31:BL:186:ARG:C	31:BL:186:ARG:HD3	2.35	0.46
35:BP:89:PRO:HB2	35:BP:92:VAL:HG21	1.98	0.46
7:AG:123:LEU:N	7:AG:123:LEU:HD12	2.31	0.46
7:AG:189:ILE:HG22	7:AG:189:ILE:O	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:109:ILE:O	29:BJ:111:LEU:HD12	2.16	0.46
18:B3:2168:G:N1	18:B3:2169:C:N4	2.64	0.46
20:BA:144:LEU:N	20:BA:144:LEU:HD12	2.31	0.46
18:B3:1447:U:H3'	18:B3:1506:U:O2	2.14	0.46
39:BT:70:THR:HG23	39:BT:71:ALA:N	2.29	0.46
39:BT:75:VAL:HG12	39:BT:80:ILE:CG1	2.29	0.46
3:AB:122:VAL:HG22	3:AB:128:ASP:OD2	2.16	0.46
6:AE:153:LEU:HD23	6:AE:155:THR:O	2.15	0.46
8:AH:100:TYR:HA	8:AH:112:HIS:NE2	2.31	0.46
1:AA:600:C:P	8:AH:121:SER:HG	2.36	0.46
1:AA:31:G:N2	1:AA:47:C:OP1	2.48	0.46
12:AL:110:LYS:HD3	12:AL:112:LYS:HD2	1.98	0.46
12:AL:59:ILE:HD11	12:AL:117:ILE:HD13	1.94	0.46
12:AL:87:VAL:HA	12:AL:124:VAL:CG2	2.44	0.46
1:AA:61:G:C2'	1:AA:386:C:C4'	2.93	0.46
2:AT:785:ARG:NE	18:B3:2697:A:N6	2.42	0.46
37:BR:59:MET:HB3	37:BR:74:MET:CE	2.46	0.46
18:B3:2776:A:H2'	18:B3:2777:G:O4'	2.16	0.46
18:B3:1401:G:H4'	43:BW:63:VAL:HA	0.83	0.46
35:BP:21:VAL:CA	35:BP:51:LYS:CB	2.93	0.46
18:B3:2382:A:C1'	46:BZ:10:TYR:CD2	2.98	0.46
18:B3:2458:U:H4'	46:BZ:66:LYS:HB3	1.90	0.46
1:AA:1499:A:N3	1:AA:1520:G:O5'	2.02	0.46
40:BU:101:PRO:CA	40:BU:104:LEU:HD22	2.35	0.46
40:BU:74:TYR:CD1	40:BU:75:ARG:N	2.83	0.46
18:B3:1153:C:OP2	18:B3:1155:G:C8	2.67	0.46
22:BC:348:LYS:N	22:BC:348:LYS:HD3	2.24	0.46
32:BM:26:LEU:CD1	32:BM:97:ALA:CB	2.93	0.46
24:BE:88:ILE:CG1	24:BE:89:THR:H	2.27	0.46
30:BK:94:LYS:HD2	30:BK:138:SER:HA	1.93	0.46
7:AG:102:ASN:O	7:AG:103:ASN:HB2	2.15	0.46
18:B3:1603:A:H4'	18:B3:1604:G:OP2	2.14	0.46
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.73	0.46
18:B3:136:C:H5''	31:BL:56:GLN:OE1	2.16	0.46
18:B3:2754:G:O2'	18:B3:2755:G:H5'	2.15	0.46
4:AC:134:GLU:CB	4:AC:156:LEU:CD2	2.93	0.46
2:AT:16:VAL:HG11	2:AT:450:ALA:O	2.15	0.46
2:AT:129:VAL:HG13	2:AT:134:GLY:O	2.16	0.46
18:B3:293:A:O2'	18:B3:294:C:H5'	2.16	0.46
39:BT:103:GLU:O	39:BT:103:GLU:HG3	2.16	0.46
9:AI:119:ASP:OD1	9:AI:121:ARG:HG3	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1206:G:C6	1:AA:1207:G:C5	3.04	0.46
1:AA:1309:G:H1'	13:AM:109:LEU:CD1	2.41	0.46
1:AA:1226:C:H5'	17:AS:125:PRO:HG3	1.47	0.46
10:AJ:99:ILE:O	10:AJ:103:ILE:HG12	2.16	0.46
24:BE:37:VAL:HG13	24:BE:38:THR:N	2.30	0.46
33:BN:38:TRP:H	33:BN:113:VAL:HG12	1.81	0.46
33:BN:115:HIS:H	33:BN:148:VAL:CB	2.27	0.46
33:BN:81:ARG:HG2	33:BN:81:ARG:NH1	2.30	0.46
18:B3:646:G:C3'	23:BD:106:ARG:HH21	2.27	0.46
23:BD:161:THR:O	23:BD:162:LYS:HB2	2.16	0.46
47:B9:29:GLU:CB	47:B9:31:GLN:HB3	2.45	0.46
21:BB:115:VAL:HG21	21:BB:125:LEU:HD22	1.97	0.46
21:BB:50:ASP:CG	21:BB:57:LEU:HG	2.36	0.46
18:B3:2911:C:O2'	18:B3:2912:C:H5'	2.15	0.46
22:BC:121:TRP:CD2	22:BC:123:LYS:CG	2.96	0.46
22:BC:173:LYS:HZ1	22:BC:174:LYS:HB2	1.79	0.46
22:BC:161:VAL:CG1	22:BC:180:ILE:HD11	2.46	0.46
22:BC:232:TRP:CE3	22:BC:232:TRP:N	2.78	0.46
22:BC:56:VAL:HG11	22:BC:69:ARG:HG3	1.98	0.46
22:BC:70:GLU:OE2	37:BR:87:ARG:O	2.34	0.46
18:B3:1564:C:O2'	18:B3:2738:G:O6	2.33	0.46
35:BP:117:HIS:C	35:BP:118:LEU:HD12	2.37	0.46
19:B4:45:A:H5'	29:BJ:140:ARG:HH11	1.80	0.46
29:BJ:19:ASN:ND2	29:BJ:66:VAL:HG13	2.30	0.46
20:BA:41:TYR:O	20:BA:43:PRO:HD3	2.16	0.46
20:BA:49:PHE:HE1	20:BA:54:LYS:N	2.13	0.46
1:AA:620:C:H3'	5:AD:143:ILE:HG12	1.97	0.46
8:AH:36:PHE:CD1	8:AH:102:ILE:HG21	2.50	0.46
1:AA:362:G:HO2'	12:AL:78:LYS:HA	1.79	0.46
1:AA:61:G:H2'	1:AA:386:C:C4'	2.46	0.46
1:AA:69:G:O4'	1:AA:174:C:C5	2.69	0.46
2:AT:108:HIS:O	2:AT:108:HIS:CG	2.69	0.46
2:AT:145:GLN:CA	2:AT:483:PHE:CE2	2.81	0.46
32:BM:18:LEU:O	32:BM:21:VAL:HB	2.16	0.46
35:BP:41:ARG:NH1	35:BP:43:LEU:HD21	2.30	0.46
18:B3:2430:A:N6	18:B3:2460:A:H2	2.14	0.46
46:BZ:67:VAL:O	46:BZ:84:LEU:HB3	2.16	0.46
1:AA:1405:G:C5	1:AA:1519:A:C1'	2.99	0.46
40:BU:111:LEU:HA	40:BU:116:LYS:CE	2.26	0.46
40:BU:23:PRO:HG2	40:BU:26:GLN:H	1.81	0.46
1:AA:1343:G:O3'	9:AI:136:ARG:CG	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:22:G:H21	1:AA:913:A:N6	2.13	0.46
6:AE:163:SER:HB2	6:AE:202:LYS:CB	2.43	0.46
18:B3:688:A:N7	41:BV:73:ASN:OD1	2.49	0.46
1:AA:239:U:H6	1:AA:240:C:C4	2.27	0.46
1:AA:122:G:C2	1:AA:288:A:N1	2.84	0.46
2:AT:757:GLU:CD	18:B3:1171:A:O2'	2.55	0.46
2:AT:29:ASP:HB3	18:B3:2693:U:OP1	2.14	0.46
11:AK:42:THR:HG21	11:AK:58:ALA:CB	2.46	0.46
16:AQ:96:TYR:O	16:AQ:97:ASN:HB2	2.16	0.46
43:BW:77:LYS:CD	43:BW:79:ASN:HD22	2.25	0.46
1:AA:242:C:H2'	1:AA:243:A:H5'	1.96	0.46
7:AG:133:VAL:O	7:AG:137:THR:HG23	2.16	0.46
23:BD:11:THR:HG21	23:BD:13:GLU:CG	2.30	0.46
1:AA:624:C:H2'	1:AA:625:G:H8	1.81	0.46
23:BD:153:THR:HG23	23:BD:154:ASP:N	2.30	0.46
3:AB:58:LEU:HD12	3:AB:61:ARG:NH2	2.30	0.46
18:B3:506:G:N2	18:B3:509:A:H5'	2.21	0.46
30:BK:116:MET:HA	30:BK:116:MET:CE	2.46	0.46
2:AT:18:ASN:N	2:AT:18:ASN:HD22	2.14	0.46
28:BI:82:ARG:HB2	28:BI:82:ARG:HH11	1.80	0.46
1:AA:413:G:N2	1:AA:428:G:O2'	2.49	0.46
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.51	0.46
1:AA:636:U:H5'	16:AQ:68:LYS:HZ1	1.81	0.46
18:B3:2511:A:H8	18:B3:2511:A:H5'	1.80	0.46
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.16	0.46
1:AA:959:A:H2'	17:AS:100:LYS:CA	2.43	0.46
17:AS:111:MET:O	17:AS:111:MET:HG2	2.15	0.46
1:AA:1320:C:C1'	17:AS:119:PHE:CE1	2.92	0.46
1:AA:1319:A:H5''	17:AS:49:MET:SD	2.56	0.46
17:AS:56:PHE:HD1	17:AS:80:MET:SD	2.39	0.46
10:AJ:21:LYS:HA	10:AJ:94:GLU:HA	1.98	0.46
18:B3:1019:C:O4'	36:BQ:61:THR:HG21	2.15	0.46
19:B4:34:A:C4	24:BE:185:PHE:CD1	3.02	0.46
19:B4:34:A:N3	24:BE:185:PHE:CD1	2.77	0.46
24:BE:110:LEU:CD2	24:BE:171:LEU:CB	2.94	0.46
19:B4:37:C:C2	24:BE:154:THR:HG22	2.39	0.46
24:BE:146:LEU:HD13	24:BE:163:LEU:HG	1.98	0.46
24:BE:22:ARG:HH12	24:BE:24:ARG:HH21	1.63	0.46
24:BE:55:PHE:HE2	24:BE:158:ARG:CB	2.24	0.46
33:BN:28:THR:HA	33:BN:31:THR:CG2	2.45	0.46
18:B3:721:A:C2	34:BO:139:ILE:CG2	2.93	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:139:HIS:HD2	23:BD:141:VAL:HG13	1.78	0.46
23:BD:200:GLN:O	23:BD:201:ARG:HG2	2.16	0.46
18:B3:720:G:C4'	34:BO:73:GLN:N	2.40	0.46
23:BD:62:GLU:CA	23:BD:74:PRO:HB2	2.46	0.46
18:B3:1163:G:N9	30:BK:51:LYS:CG	2.23	0.46
30:BK:107:ASP:HA	30:BK:110:ILE:HD12	1.98	0.46
47:B9:56:CYS:O	47:B9:57:SER:HB3	2.15	0.46
18:B3:1876:C:OP1	21:BB:131:ASN:OD1	2.34	0.46
21:BB:20:ARG:O	21:BB:22:ARG:HD2	2.15	0.46
22:BC:101:LEU:HD13	22:BC:145:ARG:CD	2.46	0.46
22:BC:17:PRO:O	22:BC:18:ARG:HB2	2.15	0.46
18:B3:2657:G:OP1	22:BC:20:ARG:CZ	2.63	0.46
22:BC:312:HIS:HB2	22:BC:313:TYR:CE2	2.51	0.46
22:BC:218:ALA:CB	22:BC:330:ASN:HB3	2.45	0.46
18:B3:1054:G:H3'	28:BI:110:ARG:NE	2.31	0.46
28:BI:79:VAL:HG22	28:BI:83:ASP:O	2.15	0.46
22:BC:357:TRP:HA	38:BS:15:PRO:HB3	1.92	0.46
37:BR:95:PHE:CE2	38:BS:28:ILE:HB	2.51	0.46
31:BL:25:ARG:HH21	31:BL:27:TRP:HB2	1.81	0.46
31:BL:88:VAL:HG12	31:BL:89:ASN:H	1.79	0.46
20:BA:203:SER:C	20:BA:204:LEU:HD22	2.36	0.46
20:BA:65:ILE:CD1	20:BA:151:VAL:CG2	2.94	0.46
10:AJ:79:TRP:N	14:AN:39:ARG:NE	2.64	0.46
1:AA:552:U:C5	12:AL:47:SER:OG	2.59	0.46
2:AT:111:PHE:CZ	2:AT:141:THR:HG23	2.51	0.46
27:BH:44:THR:CB	27:BH:55:VAL:CG1	2.94	0.46
32:BM:43:SER:CA	32:BM:134:TYR:CD1	2.99	0.46
18:B3:1380:U:H5	18:B3:2043:U:O2'	1.99	0.46
18:B3:1131:G:N1	18:B3:2523:U:H5'	2.20	0.46
18:B3:2381:C:H2'	18:B3:2382:A:H8	1.79	0.46
18:B3:2456:A:H2'	18:B3:2457:U:C6	2.51	0.46
1:AA:1345:U:C4	7:AG:76:TYR:CE1	2.98	0.46
1:AA:634:C:C2'	16:AQ:92:TYR:HH	2.23	0.46
40:BU:39:LEU:CD1	40:BU:43:TYR:CE1	2.94	0.46
40:BU:86:THR:OG1	40:BU:96:PRO:HA	2.15	0.46
1:AA:22:G:H5'	1:AA:885:G:OP2	2.15	0.46
6:AE:163:SER:CB	6:AE:202:LYS:HE2	2.46	0.46
1:AA:668:G:H4'	15:AO:104:ASN:OD1	2.16	0.46
1:AA:321:A:H2'	1:AA:322:C:C6	2.51	0.46
18:B3:1153:C:N4	18:B3:1155:G:N3	2.64	0.46
11:AK:92:THR:HG23	11:AK:94:GLY:N	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:40:ARG:HB3	3:AB:41:PRO:CD	2.39	0.46
21:BB:200:GLY:HA2	21:BB:208:HIS:ND1	2.31	0.46
41:BV:48:HIS:H	41:BV:49:PRO:CD	2.29	0.46
20:BA:45:ARG:CB	20:BA:47:LYS:HD3	2.32	0.46
1:AA:991:U:O2	1:AA:993:G:H8	1.99	0.46
18:B3:337:A:H2	18:B3:1314:U:C2'	2.29	0.46
37:BR:104:ASN:HD22	37:BR:110:LYS:NZ	2.13	0.46
21:BB:37:HIS:CB	21:BB:39:TYR:HD2	2.29	0.46
30:BK:88:PRO:HG2	30:BK:89:PRO:HD3	1.98	0.46
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.81	0.46
1:AA:1329:A:C6	13:AM:95:GLY:CA	2.71	0.46
17:AS:59:LYS:HE3	17:AS:76:VAL:HG21	1.98	0.46
9:AI:49:GLU:HG3	9:AI:113:ARG:HH21	1.80	0.46
9:AI:51:LEU:HA	9:AI:58:LYS:HG2	1.96	0.46
10:AJ:94:GLU:HG2	10:AJ:95:ALA:N	2.31	0.46
19:B4:14:G:H1'	24:BE:12:TYR:CB	2.44	0.46
19:B4:6:C:H1'	24:BE:72:ASP:OD2	2.16	0.46
18:B3:2413:A:C1'	24:BE:174:PRO:CA	2.75	0.46
19:B4:50:G:C4'	24:BE:94:ASN:CB	2.91	0.46
24:BE:95:TRP:C	24:BE:99:TYR:CE2	2.90	0.46
23:BD:146:GLU:HB3	23:BD:148:PRO:HD3	1.98	0.46
18:B3:35:U:H1'	23:BD:48:ALA:N	2.30	0.46
34:BO:75:GLY:H	34:BO:138:LEU:HD21	1.81	0.46
18:B3:775:G:OP1	45:BY:27:HIS:ND1	2.45	0.46
45:BY:30:LYS:N	45:BY:30:LYS:HE3	2.31	0.46
18:B3:1167:G:H4'	30:BK:111:GLU:HB3	1.61	0.46
18:B3:795:G:H21	18:B3:817:G:H2'	1.78	0.46
21:BB:102:PRO:HA	21:BB:162:ARG:O	2.15	0.46
21:BB:193:ASN:N	21:BB:193:ASN:HD21	2.14	0.46
21:BB:61:VAL:CG1	21:BB:62:PHE:N	2.79	0.46
19:B4:86:G:O3'	25:BF:219:PHE:CD2	2.64	0.46
22:BC:184:GLY:C	22:BC:190:LYS:HG3	2.36	0.46
22:BC:236:LYS:HE2	22:BC:237:LEU:CG	2.46	0.46
37:BR:19:VAL:CB	37:BR:50:PRO:HG3	2.45	0.46
26:BG:132:LYS:HA	26:BG:132:LYS:HD3	1.64	0.46
31:BL:41:PRO:HG2	31:BL:48:ARG:NH1	2.27	0.46
31:BL:43:ARG:HG2	31:BL:46:LYS:HZ1	1.81	0.46
35:BP:89:PRO:HB2	35:BP:92:VAL:CG2	2.46	0.46
38:BS:51:TRP:CZ3	38:BS:56:ARG:CZ	2.99	0.46
18:B3:2334:C:H4'	29:BJ:113:ILE:N	2.26	0.46
18:B3:1672:G:O3'	39:BT:91:LYS:CG	2.35	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:122:VAL:HG12	3:AB:144:ALA:CB	2.42	0.46
3:AB:66:ILE:CG2	3:AB:67:PRO:HD3	2.42	0.46
1:AA:66:G:N2	1:AA:69:G:N7	2.54	0.46
2:AT:515:ASP:O	2:AT:518:VAL:HG12	2.16	0.46
18:B3:2576:A:H1'	18:B3:2799:A:H2	1.80	0.46
27:BH:107:ASP:CB	27:BH:128:VAL:H	2.19	0.46
27:BH:129:ARG:CZ	27:BH:129:ARG:HA	2.46	0.46
18:B3:2781:U:C4'	27:BH:155:SER:CB	2.93	0.46
27:BH:19:SER:N	27:BH:26:LYS:HD2	2.30	0.46
27:BH:7:GLU:HG2	27:BH:56:ALA:CB	2.44	0.46
27:BH:29:GLY:CA	27:BH:82:VAL:CG2	2.94	0.46
18:B3:1227:C:C4'	32:BM:132:ARG:HH22	1.99	0.46
32:BM:45:GLU:HG3	32:BM:46:PHE:CD2	2.51	0.46
35:BP:22:TRP:NE1	35:BP:49:ILE:HD13	2.30	0.46
43:BW:9:ARG:HH12	43:BW:72:LEU:HD13	1.80	0.46
46:BZ:66:LYS:CE	46:BZ:86:ARG:HD2	2.46	0.46
1:AA:1376:U:H2'	7:AG:76:TYR:CB	2.46	0.46
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.50	0.46
40:BU:100:HIS:NE2	40:BU:104:LEU:HB3	2.31	0.46
18:B3:907:A:H2'	18:B3:908:A:C8	2.51	0.46
46:BZ:37:GLN:CA	46:BZ:40:ARG:HE	2.28	0.46
11:AK:56:PRO:CG	11:AK:92:THR:HG21	2.46	0.46
18:B3:1811:A:H1'	18:B3:2752:C:H1'	1.98	0.46
4:AC:119:TYR:CE1	4:AC:151:PHE:CZ	3.04	0.46
4:AC:125:VAL:HG11	4:AC:187:ILE:HG12	1.97	0.46
32:BM:19:ALA:CB	32:BM:83:LEU:CD2	2.94	0.46
34:BO:96:PHE:N	34:BO:97:PRO:HD2	2.31	0.46
7:AG:201:ALA:C	7:AG:203:GLY:H	2.18	0.46
18:B3:2506:A:O2'	18:B3:2507:G:O5'	2.34	0.46
22:BC:166:ARG:N	22:BC:166:ARG:HD2	2.30	0.46
18:B3:1923:G:H5''	46:BZ:39:LYS:HE3	1.98	0.46
7:AG:99:ASN:HB3	7:AG:175:THR:HG21	1.98	0.46
2:AT:202:VAL:CG1	2:AT:209:VAL:HG22	2.46	0.46
18:B3:95:A:H5''	18:B3:96:A:C3'	2.45	0.46
3:AB:162:ASN:HD22	3:AB:163:ASN:N	2.13	0.46
1:AA:1044:A:H2'	1:AA:1045:C:C4'	2.45	0.46
2:AT:394:PHE:N	2:AT:394:PHE:HD2	2.14	0.46
2:AT:357:TYR:CZ	2:AT:476:HIS:HB3	2.51	0.46
38:BS:10:GLY:HA3	38:BS:53:VAL:HB	1.98	0.46
19:B4:18:U:O2'	19:B4:19:G:H5'	2.16	0.46
18:B3:1825:U:O2'	18:B3:1826:C:H5'	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1297:C:C6	13:AM:53:ASP:CB	2.87	0.45
1:AA:958:A:N9	17:AS:101:ALA:CB	2.60	0.45
17:AS:124:THR:CB	17:AS:126:VAL:HG22	2.45	0.45
9:AI:89:VAL:CG2	9:AI:101:LYS:CG	2.94	0.45
24:BE:104:LEU:HA	24:BE:104:LEU:HD23	1.62	0.45
36:BQ:74:VAL:HB	36:BQ:91:LEU:CG	2.45	0.45
18:B3:1371:U:H5'	33:BN:66:ILE:HD13	1.75	0.45
33:BN:74:GLU:HG2	33:BN:77:VAL:HG22	1.97	0.45
33:BN:88:LYS:HD2	33:BN:89:PHE:H	1.80	0.45
18:B3:1352:A:O4'	23:BD:102:THR:HG22	2.14	0.45
23:BD:135:LEU:CD2	23:BD:135:LEU:H	2.28	0.45
23:BD:160:LYS:HE3	23:BD:160:LYS:O	2.16	0.45
18:B3:120:A:N9	45:BY:26:PHE:CE1	2.84	0.45
23:BD:61:ALA:CB	23:BD:83:ARG:HH22	2.29	0.45
47:B9:29:GLU:HB3	47:B9:31:GLN:C	2.36	0.45
21:BB:23:GLN:OE1	21:BB:51:SER:HB2	2.17	0.45
21:BB:57:LEU:HB2	21:BB:74:ILE:HG23	1.97	0.45
21:BB:8:ARG:HE	21:BB:8:ARG:HB3	1.41	0.45
21:BB:6:ASN:CA	21:BB:8:ARG:HH21	2.29	0.45
18:B3:693:A:H2'	18:B3:694:A:C8	2.51	0.45
1:AA:231:G:N2	1:AA:263:A:N3	2.52	0.45
18:B3:487:G:C5'	40:BU:90:VAL:CG1	2.94	0.45
22:BC:188:SER:CA	22:BC:191:VAL:HG22	2.45	0.45
22:BC:81:PRO:HG2	22:BC:203:ALA:HA	1.98	0.45
22:BC:243:ARG:HD3	22:BC:244:GLY:H	1.80	0.45
22:BC:226:GLU:CB	22:BC:269:ARG:CD	2.95	0.45
18:B3:2818:A:O2'	22:BC:98:LEU:CB	2.53	0.45
18:B3:2720:C:O2'	38:BS:19:THR:CG2	2.64	0.45
26:BG:109:THR:HG23	26:BG:118:GLY:HA3	1.98	0.45
26:BG:112:ALA:H	26:BG:213:LEU:HD13	1.81	0.45
18:B3:2214:A:H2	20:BA:105:LYS:NZ	2.03	0.45
20:BA:64:SER:CB	20:BA:107:TYR:CD2	2.95	0.45
20:BA:49:PHE:CD2	20:BA:193:LEU:HD21	2.52	0.45
10:AJ:68:ARG:HA	14:AN:39:ARG:HD3	1.57	0.45
1:AA:402:G:O3'	1:AA:620:C:H1'	2.08	0.45
5:AD:99:LEU:CD2	5:AD:103:ASP:CA	2.93	0.45
8:AH:33:ILE:HD12	8:AH:60:ILE:HD12	1.97	0.45
8:AH:39:VAL:HG13	8:AH:40:MET:N	2.29	0.45
1:AA:520:A:H4'	12:AL:90:ASP:CG	2.36	0.45
2:AT:145:GLN:OE1	2:AT:483:PHE:CD2	2.69	0.45
18:B3:1226:G:H5''	18:B3:1244:U:C2	2.41	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2781:U:O2'	18:B3:2782:G:H5'	2.16	0.45
27:BH:92:TYR:OH	27:BH:144:ILE:HD13	2.15	0.45
27:BH:157:ASN:O	27:BH:161:LEU:HG	2.17	0.45
40:BU:60:ARG:HA	40:BU:60:ARG:HD2	1.85	0.45
2:AT:501:LEU:CG	12:AL:99:ASN:HB2	2.37	0.45
1:AA:499:A:C3'	1:AA:500:G:H5'	2.46	0.45
41:BV:74:LEU:CD1	41:BV:117:ILE:HG21	2.45	0.45
18:B3:697:G:OP2	41:BV:130:SER:HA	2.17	0.45
41:BV:68:TRP:N	41:BV:68:TRP:CD1	2.82	0.45
41:BV:86:ARG:HH22	41:BV:91:LYS:CG	2.28	0.45
18:B3:2000:G:O2'	18:B3:2001:G:H5'	2.16	0.45
18:B3:219:G:H3'	18:B3:220:C:C5'	2.44	0.45
45:BY:37:GLY:N	45:BY:44:ARG:HB2	2.31	0.45
21:BB:203:MET:HG3	21:BB:207:ASP:CB	2.46	0.45
6:AE:115:LYS:CD	6:AE:130:ILE:HB	2.46	0.45
18:B3:1526:A:H1'	18:B3:1527:A:N7	2.31	0.45
1:AA:1137:C:H4'	1:AA:1138:G:N1	2.31	0.45
18:B3:544:G:H2'	18:B3:545:G:C5'	2.44	0.45
1:AA:1424:C:C2'	1:AA:1425:U:H5'	2.46	0.45
1:AA:807:A:H2'	1:AA:808:C:C6	2.51	0.45
18:B3:40:C:O2'	18:B3:41:G:H5'	2.16	0.45
2:AT:26:ALA:HB2	2:AT:128:VAL:HB	1.98	0.45
1:AA:1010:G:O2'	1:AA:1011:G:H5'	2.16	0.45
9:AI:127:LYS:N	9:AI:127:LYS:HD2	2.31	0.45
18:B3:747:G:H2'	18:B3:748:C:C6	2.51	0.45
13:AM:117:LYS:CE	13:AM:127:HIS:HB3	2.43	0.45
18:B3:622:G:H8	42:B0:36:LYS:CD	2.28	0.45
9:AI:97:ASP:OD1	9:AI:104:LEU:HD13	2.17	0.45
9:AI:45:PHE:HE2	9:AI:48:TYR:HE2	1.63	0.45
24:BE:63:GLN:CG	24:BE:74:VAL:CG2	2.95	0.45
36:BQ:57:TYR:CE2	36:BQ:76:ILE:HG21	2.50	0.45
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.73	0.45
18:B3:500:G:C2'	33:BN:16:ALA:CB	2.51	0.45
33:BN:59:PHE:CD2	33:BN:81:ARG:CD	2.95	0.45
31:BL:76:LYS:CD	31:BL:76:LYS:H	2.29	0.45
18:B3:1164:U:C5	30:BK:51:LYS:N	2.83	0.45
18:B3:1166:G:N3	30:BK:108:GLU:N	2.58	0.45
30:BK:85:LEU:O	30:BK:85:LEU:HD12	2.15	0.45
47:B9:28:LEU:CD2	47:B9:32:GLN:CB	2.94	0.45
21:BB:83:THR:OG1	47:B9:62:THR:N	2.49	0.45
47:B9:67:ALA:HB3	47:B9:68:TYR:CE1	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:103:LEU:HA	21:BB:103:LEU:HD22	1.67	0.45
21:BB:171:GLY:CA	47:B9:66:GLY:C	2.84	0.45
21:BB:61:VAL:CG1	21:BB:62:PHE:H	2.28	0.45
25:BF:107:LEU:N	25:BF:107:LEU:HD13	2.31	0.45
25:BF:168:ILE:HD13	25:BF:179:SER:OG	2.16	0.45
1:AA:129(A):G:OP1	16:AQ:126:GLN:O	2.34	0.45
44:BX:33:VAL:C	44:BX:35:LYS:H	2.19	0.45
18:B3:92:G:C8	44:BX:41:LEU:HB3	2.23	0.45
22:BC:113:VAL:HG12	22:BC:117:PHE:HB2	1.97	0.45
22:BC:218:ALA:HB3	22:BC:330:ASN:CG	2.37	0.45
22:BC:270:GLY:C	22:BC:271:TYR:CD1	2.90	0.45
22:BC:351:GLU:H	22:BC:351:GLU:CD	2.19	0.45
22:BC:32:PRO:CD	22:BC:43:THR:HG21	2.45	0.45
28:BI:103:LEU:H	28:BI:112:GLN:HB3	1.81	0.45
18:B3:2283:G:C4	28:BI:115:MET:HG2	2.47	0.45
28:BI:128:ARG:HB2	28:BI:128:ARG:CZ	2.46	0.45
31:BL:114:VAL:HB	31:BL:133:LEU:HD22	1.96	0.45
31:BL:186:ARG:HD3	31:BL:187:ARG:HB3	1.98	0.45
35:BP:57:HIS:CD2	35:BP:59:LYS:CG	2.99	0.45
18:B3:2347:C:C2'	29:BJ:17:VAL:HG21	2.46	0.45
18:B3:2220:C:H4'	20:BA:210:MET:O	2.16	0.45
20:BA:63:MET:SD	20:BA:109:ALA:HB2	2.56	0.45
20:BA:98:LYS:C	20:BA:98:LYS:HD3	2.37	0.45
1:AA:826:C:H2'	1:AA:827:U:H6	1.81	0.45
37:BR:67:PRO:C	37:BR:69:LEU:H	2.18	0.45
1:AA:1373:G:C5'	7:AG:104:GLY:O	2.64	0.45
18:B3:1114:A:H2'	18:B3:1115:U:C6	2.51	0.45
18:B3:1116:U:O2'	18:B3:1226:G:C8	2.69	0.45
27:BH:115:ARG:HA	27:BH:123:ILE:HG13	1.98	0.45
27:BH:18:VAL:CG1	27:BH:26:LYS:CE	2.95	0.45
40:BU:55:GLU:HB2	40:BU:108:LYS:HB3	1.97	0.45
40:BU:82:VAL:HG12	40:BU:83:ASP:OD1	2.15	0.45
41:BV:138:ARG:O	41:BV:138:ARG:HG2	2.16	0.45
15:AO:94:ALA:CB	15:AO:117:ILE:HD12	2.46	0.45
18:B3:194:A:H4'	31:BL:177:HIS:HB3	1.97	0.45
11:AK:26:PHE:HE2	11:AK:28:HIS:HD1	1.61	0.45
11:AK:47:VAL:CG1	11:AK:52:ASP:CA	2.93	0.45
19:B4:76:G:H3'	19:B4:77:A:C5'	2.21	0.45
15:AO:74:LEU:CA	15:AO:89:TYR:HE1	2.27	0.45
3:AB:106:PHE:CE2	3:AB:117:PRO:HG3	2.51	0.45
4:AC:105:LYS:CB	4:AC:174:VAL:CG2	2.94	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:77:LYS:C	43:BW:77:LYS:HD2	2.37	0.45
1:AA:625:G:H2'	1:AA:626:U:H6	1.80	0.45
18:B3:279:C:H2'	18:B3:280:C:H6	1.81	0.45
4:AC:31:GLU:CG	4:AC:51:ALA:CB	2.94	0.45
30:BK:93:LYS:CE	30:BK:96:LYS:CB	2.95	0.45
6:AE:133:LEU:HD13	6:AE:134:SER:HB2	1.98	0.45
18:B3:1586:G:H2'	18:B3:1587:U:O4'	2.16	0.45
30:BK:25:SER:HA	30:BK:29:ALA:HB3	1.98	0.45
34:BO:100:THR:HG21	34:BO:120:GLU:O	2.16	0.45
27:BH:137:SER:HB2	27:BH:142:ASP:H	1.80	0.45
18:B3:1218:U:H2'	18:B3:1219:U:H6	1.80	0.45
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.98	0.45
18:B3:2004:U:H6	18:B3:2004:U:O5'	1.99	0.45
1:AA:988:G:C5	1:AA:1015:A:N3	2.70	0.45
17:AS:47:ARG:O	17:AS:47:ARG:HG2	2.15	0.45
17:AS:83:MET:HE1	17:AS:116:LEU:CD1	2.47	0.45
18:B3:629:A:H5'	42:B0:38:ILE:C	2.36	0.45
9:AI:45:PHE:CE1	9:AI:77:VAL:HG22	2.49	0.45
19:B4:3:A:N7	19:B4:25:G:N2	2.62	0.45
19:B4:7:G:N7	24:BE:22:ARG:HD2	2.28	0.45
24:BE:17:GLN:OE1	36:BQ:19:PHE:C	2.52	0.45
24:BE:18:THR:HG22	24:BE:19:PRO:N	2.31	0.45
19:B4:34:A:H2'	24:BE:202:GLY:O	2.16	0.45
24:BE:95:TRP:O	24:BE:99:TYR:CD2	2.68	0.45
1:AA:319:G:O2'	1:AA:320:C:H5'	2.16	0.45
18:B3:1335:C:OP2	42:B0:100:ILE:N	2.49	0.45
18:B3:26:U:O2	18:B3:1319:G:H2'	2.17	0.45
23:BD:208:TYR:HE2	23:BD:224:VAL:HG21	1.70	0.45
34:BO:79:LYS:CG	34:BO:138:LEU:CD1	2.95	0.45
45:BY:33:CYS:CA	45:BY:38:TYR:CE1	2.94	0.45
31:BL:82:LYS:HZ1	46:BZ:49:PHE:CA	2.22	0.45
47:B9:30:ILE:C	47:B9:30:ILE:HD13	2.37	0.45
21:BB:174:VAL:O	21:BB:174:VAL:HG23	2.16	0.45
21:BB:241:ARG:HB3	21:BB:241:ARG:CZ	2.45	0.45
25:BF:116:VAL:CG1	25:BF:122:THR:CG2	2.95	0.45
25:BF:142:THR:HG21	25:BF:236:ASN:OD1	2.17	0.45
18:B3:2716:G:HO2'	18:B3:2717:C:H5'	1.81	0.45
18:B3:1741:U:C4'	18:B3:2723:G:O3'	2.62	0.45
22:BC:206:SER:N	22:BC:208:PHE:CD1	2.82	0.45
22:BC:234:THR:CG2	22:BC:246:ARG:HD2	2.46	0.45
18:B3:2655:U:H6	22:BC:261:TRP:CE2	2.34	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:81:PRO:HD2	22:BC:319:ASP:HB2	1.98	0.45
22:BC:328:PRO:HG2	22:BC:330:ASN:HD22	1.80	0.45
28:BI:51:HIS:HE1	28:BI:149:VAL:CG2	2.24	0.45
26:BG:115:VAL:HB	26:BG:210:LEU:HD22	1.97	0.45
26:BG:109:THR:CG2	26:BG:118:GLY:HA3	2.47	0.45
31:BL:167:GLY:C	31:BL:171:ARG:HH12	2.19	0.45
31:BL:188:LYS:HG3	31:BL:189:THR:N	2.23	0.45
18:B3:2737:C:H41	35:BP:61:ARG:NE	1.94	0.45
35:BP:115:ASP:C	35:BP:116:LYS:HG3	2.37	0.45
35:BP:98:LEU:O	35:BP:98:LEU:HD22	2.16	0.45
18:B3:2109:U:O4	41:BV:39:HIS:CD2	2.65	0.45
1:AA:600:C:O2'	1:AA:601:C:H5'	2.17	0.45
5:AD:118:LEU:CD1	5:AD:164:PHE:CE1	2.99	0.45
5:AD:136:VAL:CG2	5:AD:141:VAL:CG2	2.95	0.45
2:AT:464:LEU:HB3	2:AT:509:LYS:O	2.16	0.45
37:BR:37:ILE:CG2	37:BR:59:MET:CB	2.94	0.45
37:BR:61:THR:HG22	37:BR:62:VAL:N	2.32	0.45
37:BR:72:LYS:C	37:BR:73:VAL:HG22	2.35	0.45
18:B3:2563:U:H2'	18:B3:2565:C:O5'	2.17	0.45
27:BH:62:ARG:HB3	32:BM:129:LYS:HE3	1.74	0.45
32:BM:8:ILE:HD11	32:BM:18:LEU:HD21	1.96	0.45
32:BM:27:LEU:HD23	32:BM:27:LEU:C	2.36	0.45
32:BM:72:PHE:CB	32:BM:77:ARG:CB	2.93	0.45
18:B3:2382:A:C4'	46:BZ:12:LYS:CB	2.94	0.45
46:BZ:62:LYS:HD3	46:BZ:63:THR:N	2.31	0.45
18:B3:78:G:HO2'	40:BU:25:SER:CA	2.28	0.45
1:AA:1344:C:H5'	9:AI:136:ARG:HB3	1.98	0.45
18:B3:730:G:H4'	41:BV:132:LEU:CD1	2.44	0.45
41:BV:104:LEU:HD12	41:BV:108:TYR:OH	2.17	0.45
41:BV:75:ASP:CG	41:BV:114:LYS:HE3	2.36	0.45
1:AA:116:A:H2'	1:AA:117:G:O4'	2.17	0.45
11:AK:40:ARG:CB	11:AK:66:VAL:CG2	2.94	0.45
21:BB:208:HIS:HB3	21:BB:209:PRO:HD2	1.99	0.45
21:BB:4:ILE:CG1	21:BB:208:HIS:HA	2.47	0.45
20:BA:90:LEU:CG	20:BA:124:LEU:HD11	2.39	0.45
18:B3:1355:A:C4'	18:B3:1355:A:OP1	2.63	0.45
20:BA:52:SER:C	20:BA:53:LEU:HD23	2.35	0.45
6:AE:187:LEU:CD2	6:AE:195:VAL:HG21	2.43	0.45
1:AA:878:G:OP1	8:AH:84:ASP:OD1	2.34	0.45
18:B3:1902:G:H2'	18:B3:1903:U:C6	2.51	0.45
13:AM:101:LEU:O	13:AM:102:ALA:HB3	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:843:A:C3'	33:BN:131:ALA:N	2.64	0.45
42:B0:41:VAL:HA	42:B0:44:ARG:HH21	1.80	0.45
9:AI:34:PRO:HD2	9:AI:37:LEU:HD23	1.98	0.45
18:B3:2424:U:O2'	36:BQ:6:GLY:C	2.55	0.45
24:BE:110:LEU:HA	24:BE:115:LEU:CD1	2.45	0.45
24:BE:148:ILE:HD13	24:BE:148:ILE:H	1.82	0.45
24:BE:148:ILE:HB	24:BE:151:GLN:CD	2.37	0.45
33:BN:63:ASN:HB2	33:BN:66:ILE:CG1	2.27	0.45
33:BN:69:THR:HG21	33:BN:73:LYS:O	2.15	0.45
18:B3:2051:G:H5''	33:BN:86:SER:N	2.20	0.45
23:BD:134:VAL:CG2	23:BD:147:ILE:HD11	2.47	0.45
23:BD:145:PRO:O	23:BD:147:ILE:HG23	2.17	0.45
23:BD:161:THR:N	23:BD:217:ALA:HB1	2.32	0.45
23:BD:221:VAL:CG1	23:BD:224:VAL:CG1	2.94	0.45
18:B3:1350:U:H4'	23:BD:45:LYS:H	1.81	0.45
34:BO:62:VAL:CG1	34:BO:88:THR:N	2.80	0.45
18:B3:1192:A:H2	30:BK:105:GLN:N	2.14	0.45
18:B3:1653:A:O4'	21:BB:186:HIS:CD2	2.68	0.45
47:B9:22:ARG:CD	47:B9:24:GLN:HG2	2.21	0.45
47:B9:31:GLN:HG2	47:B9:32:GLN:N	2.32	0.45
47:B9:48:ARG:HD2	47:B9:48:ARG:N	2.25	0.45
18:B3:947:U:O2'	18:B3:948:G:H5'	2.16	0.45
19:B4:88:G:N7	25:BF:220:LYS:NZ	2.65	0.45
1:AA:190(B):C:H2'	1:AA:190(C):C:O4'	2.16	0.45
44:BX:17:LEU:CD2	44:BX:54:VAL:CG2	2.93	0.45
44:BX:8:GLU:OE1	44:BX:12:LYS:HE3	2.16	0.45
18:B3:2074:A:O2'	18:B3:2075:G:P	2.75	0.45
18:B3:2713:G:H5'	37:BR:44:SER:C	2.29	0.45
18:B3:2718:C:OP1	22:BC:331:ARG:NH2	2.49	0.45
18:B3:2822:C:C5'	22:BC:133:SER:CB	2.94	0.45
22:BC:220:THR:CB	22:BC:272:HIS:HB2	2.46	0.45
22:BC:336:THR:CG2	22:BC:337:LEU:N	2.79	0.45
28:BI:34:TYR:CD1	28:BI:34:TYR:N	2.83	0.45
28:BI:54:SER:HB2	28:BI:135:ILE:HD11	1.98	0.45
29:BJ:95:PHE:CB	29:BJ:101:PHE:HB2	2.30	0.45
29:BJ:71:ARG:CD	29:BJ:74:LYS:N	2.79	0.45
18:B3:2216:A:O2'	18:B3:2217:U:C6	2.70	0.45
39:BT:120:LYS:HG3	39:BT:121:ALA:N	2.32	0.45
39:BT:82:VAL:HB	39:BT:83:PHE:H	1.21	0.45
39:BT:86:SER:CB	39:BT:89:ALA:HB2	2.46	0.45
10:AJ:69:LYS:CA	14:AN:39:ARG:HH11	2.28	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1420:C:O5'	18:B3:1991:A:H5'	1.78	0.45
1:AA:1348:U:C3'	9:AI:134:ARG:CB	2.91	0.45
27:BH:107:ASP:HA	27:BH:112:ILE:HG13	1.94	0.45
27:BH:23:ARG:HD3	27:BH:37:ASN:OD1	2.16	0.45
32:BM:45:GLU:OE2	32:BM:135:THR:HG23	2.16	0.45
18:B3:1119:G:H2'	32:BM:48:ARG:HD3	1.97	0.45
32:BM:52:LYS:H	32:BM:58:ARG:HG2	1.81	0.45
35:BP:22:TRP:CD2	35:BP:50:VAL:N	2.85	0.45
35:BP:22:TRP:HA	35:BP:51:LYS:HD2	1.99	0.45
35:BP:8:ARG:C	35:BP:9:LEU:HD23	2.36	0.45
18:B3:2429:A:H2'	18:B3:2430:A:C8	2.51	0.45
40:BU:60:ARG:CZ	40:BU:60:ARG:CA	2.94	0.45
40:BU:31:LEU:HD21	40:BU:78:PHE:C	2.36	0.45
1:AA:913:A:OP1	12:AL:62:LYS:HD2	2.16	0.45
1:AA:404:U:C2	5:AD:36:LEU:HD13	2.52	0.45
1:AA:239:U:C1'	1:AA:288:A:N3	2.77	0.45
2:AT:757:GLU:OE1	18:B3:1171:A:N3	2.49	0.45
11:AK:56:PRO:HG3	11:AK:92:THR:HG21	1.97	0.45
1:AA:1442:G:C2'	1:AA:1442:G:N3	2.79	0.45
3:AB:26:ARG:O	3:AB:27:ASN:HB2	2.16	0.45
18:B3:375:G:H21	18:B3:411:A:P	2.35	0.45
15:AO:90:LEU:CD2	15:AO:121:ILE:CG1	2.94	0.45
4:AC:172:ARG:HH21	4:AC:173:HIS:CD2	2.33	0.45
32:BM:26:LEU:CD2	32:BM:97:ALA:CA	2.95	0.45
32:BM:113:LYS:HB3	32:BM:115:LYS:CE	2.44	0.45
16:AQ:74:VAL:O	16:AQ:118:VAL:HG23	2.17	0.45
11:AK:101:LEU:CD1	11:AK:114:ILE:CG1	2.95	0.45
20:BA:97:LYS:C	20:BA:100:ILE:HG22	2.36	0.45
40:BU:87:LYS:HA	40:BU:94:SER:OG	2.16	0.45
18:B3:2515:C:H2'	18:B3:2516:G:H5'	1.98	0.45
18:B3:549:A:O2'	18:B3:550:C:H5'	2.16	0.45
1:AA:155:C:H2'	1:AA:156:G:H8	1.82	0.45
18:B3:2772:G:O2'	18:B3:2773:G:H5'	2.15	0.45
18:B3:618:G:H8	42:B0:46:PHE:CG	2.29	0.45
1:AA:1176:A:H2'	9:AI:107:ALA:C	2.37	0.45
9:AI:42:ILE:CG1	9:AI:45:PHE:HB2	2.46	0.45
10:AJ:56:VAL:HG11	10:AJ:90:TYR:HB2	1.97	0.45
24:BE:75:LEU:CD2	24:BE:75:LEU:H	2.29	0.45
36:BQ:96:ILE:HG22	36:BQ:97:LYS:O	2.16	0.45
33:BN:35:ILE:CB	33:BN:43:ALA:CB	2.93	0.45
33:BN:91:GLN:HG2	33:BN:94:LEU:HD11	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:26:U:C6	18:B3:1319:G:O2'	2.68	0.45
18:B3:664:U:P	23:BD:114:HIS:HB2	2.56	0.45
23:BD:191:GLY:HA3	23:BD:194:ARG:HH11	1.80	0.45
23:BD:221:VAL:HG11	23:BD:224:VAL:CG1	2.47	0.45
23:BD:35:HIS:HA	23:BD:38:PHE:CE1	2.38	0.45
18:B3:122:C:H5'	39:BT:117:GLY:O	2.16	0.45
18:B3:820:G:O2'	18:B3:856:G:H4'	2.17	0.45
47:B9:22:ARG:CZ	47:B9:22:ARG:N	2.80	0.45
18:B3:1869:A:H1'	21:BB:10:GLY:HA2	1.96	0.45
21:BB:116:GLU:HB2	21:BB:121:ASP:O	2.17	0.45
21:BB:102:PRO:CD	21:BB:162:ARG:HA	2.47	0.45
21:BB:179:LEU:HD12	21:BB:179:LEU:N	2.32	0.45
21:BB:183:ARG:HA	21:BB:183:ARG:NE	2.31	0.45
21:BB:6:ASN:HA	21:BB:8:ARG:NH2	2.30	0.45
18:B3:1024:G:O2'	25:BF:104:LEU:CG	2.59	0.45
16:AQ:87:ARG:CD	16:AQ:89:TYR:HD1	2.29	0.45
44:BX:17:LEU:HD11	44:BX:54:VAL:HG22	1.98	0.45
18:B3:1742:A:C8	18:B3:2723:G:O4'	2.70	0.45
18:B3:631:A:N3	18:B3:2073:G:O2'	2.49	0.45
22:BC:111:ASP:C	22:BC:114:LYS:HZ1	2.19	0.45
18:B3:2826:G:C2'	22:BC:123:LYS:HA	2.34	0.45
22:BC:172:GLN:HG3	22:BC:173:LYS:CE	2.47	0.45
22:BC:304:ILE:CD1	22:BC:322:MET:CE	2.95	0.45
28:BI:153:ARG:CZ	28:BI:153:ARG:HB3	2.45	0.45
37:BR:44:SER:OG	37:BR:48:ARG:HB3	2.17	0.45
37:BR:80:ARG:CZ	37:BR:80:ARG:CA	2.90	0.45
38:BS:23:ARG:CD	38:BS:28:ILE:CG1	2.94	0.45
26:BG:149:LEU:HD22	26:BG:149:LEU:H	1.80	0.45
26:BG:151:LEU:HD11	26:BG:185:LEU:HB3	1.99	0.45
31:BL:156:LYS:HD3	31:BL:157:HIS:H	1.81	0.45
18:B3:1805:G:C2	18:B3:2882:G:O2'	2.62	0.45
18:B3:2109:U:C1'	41:BV:40:HIS:HE2	2.29	0.45
18:B3:2347:C:O2	29:BJ:17:VAL:HG22	2.17	0.45
18:B3:1508:C:H5'	39:BT:77:ASP:OD2	2.16	0.45
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.46	0.45
4:AC:16:PHE:O	4:AC:19:GLU:HB3	2.16	0.45
3:AB:122:VAL:CG1	3:AB:144:ALA:CB	2.95	0.45
3:AB:74:ALA:HA	3:AB:121:ILE:HG22	1.97	0.45
5:AD:101:VAL:HG23	5:AD:191:ALA:HB2	1.99	0.45
5:AD:102:GLU:O	5:AD:190:GLU:HB2	2.16	0.45
5:AD:101:VAL:HG22	5:AD:115:LYS:HZ3	1.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:104:THR:CB	8:AH:125:LEU:HD11	2.47	0.45
12:AL:68:ILE:HG23	12:AL:70:LYS:HZ3	1.82	0.45
37:BR:32:ARG:CB	37:BR:65:GLY:N	2.80	0.45
1:AA:1420:C:H5''	18:B3:1991:A:C4'	2.13	0.45
18:B3:164:G:C3'	41:BV:31:ARG:CB	2.84	0.45
32:BM:11:LYS:O	32:BM:40:LEU:HA	2.17	0.45
32:BM:133:LYS:O	32:BM:133:LYS:HG2	2.16	0.45
35:BP:22:TRP:HE1	35:BP:49:ILE:HD13	1.82	0.45
18:B3:1398:G:C4'	35:BP:25:PRO:CG	2.94	0.45
35:BP:3:LEU:CD1	35:BP:32:ALA:CA	2.95	0.45
35:BP:44:VAL:CG1	35:BP:45:LYS:N	2.79	0.45
43:BW:17:LYS:CD	43:BW:66:VAL:HB	2.46	0.45
1:AA:1075:C:H5'	3:AB:102:THR:CA	2.34	0.45
1:AA:1075:C:OP1	3:AB:102:THR:C	2.55	0.45
40:BU:100:HIS:CG	40:BU:101:PRO:HA	2.52	0.45
40:BU:109:LEU:HD22	40:BU:111:LEU:CD1	2.46	0.45
40:BU:21:THR:HG22	40:BU:21:THR:O	2.16	0.45
40:BU:40:ARG:CZ	40:BU:41:ALA:CB	2.95	0.45
40:BU:58:VAL:N	40:BU:67:GLU:CG	2.80	0.45
41:BV:129:VAL:CG2	41:BV:133:ALA:CB	2.94	0.45
18:B3:20:G:O2'	33:BN:5:ALA:N	2.41	0.45
40:BU:14:LYS:HE3	40:BU:18:ALA:CB	2.40	0.45
18:B3:390:G:OP2	46:BZ:47:SER:HB3	2.16	0.45
18:B3:1470:A:C4'	31:BL:95:ARG:HD2	2.40	0.45
18:B3:2251:G:C2	18:B3:2252:A:C4	3.05	0.45
10:AJ:85:ARG:HB3	10:AJ:85:ARG:HE	1.48	0.45
21:BB:1:GLY:C	21:BB:206:VAL:HG23	2.37	0.45
15:AO:81:PRO:O	15:AO:82:GLU:HB2	2.16	0.45
6:AE:115:LYS:HB3	6:AE:126:ALA:CB	2.46	0.45
6:AE:115:LYS:CE	6:AE:130:ILE:HD13	2.46	0.45
1:AA:57:G:O4'	1:AA:368:U:N3	2.49	0.45
20:BA:120:VAL:HG23	20:BA:124:LEU:HD22	1.98	0.45
20:BA:117:ILE:O	20:BA:121:PRO:HG2	2.16	0.45
20:BA:179:LEU:CD1	20:BA:183:ILE:CD1	2.94	0.45
1:AA:1191:A:H2'	1:AA:1192:C:H6	1.81	0.45
30:BK:73:VAL:HB	30:BK:75:PRO:HG3	1.99	0.45
20:BA:24:LYS:HZ3	20:BA:25:LYS:HE2	1.82	0.45
18:B3:1149:U:H4'	18:B3:1150:A:H5''	1.98	0.45
6:AE:210:LEU:HD12	6:AE:211:LYS:CA	2.46	0.45
1:AA:393:A:C2'	1:AA:394:G:H5'	2.46	0.45
1:AA:370:C:C2'	1:AA:371:G:H5'	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1450:C:C4'	18:B3:1451:C:OP2	2.64	0.45
40:BU:84:LYS:H	40:BU:84:LYS:HD2	1.80	0.45
18:B3:204:A:O2'	18:B3:205:U:H5'	2.16	0.45
30:BK:60:VAL:HG23	30:BK:60:VAL:O	2.16	0.45
18:B3:2793:A:H2'	18:B3:2794:G:H5'	1.99	0.45
40:BU:19:TYR:HB3	40:BU:20:PHE:H	1.50	0.45
18:B3:2688:U:O2'	18:B3:2689:A:H5'	2.17	0.45
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.81	0.45
13:AM:101:LEU:C	13:AM:105:VAL:HG23	2.37	0.45
1:AA:1318:A:O3'	17:AS:84:ILE:CG2	2.65	0.45
17:AS:90:ILE:HG23	17:AS:109:PRO:HD3	1.99	0.45
9:AI:50:PRO:CD	9:AI:115:LEU:HD13	2.45	0.45
24:BE:37:VAL:HG23	24:BE:48:LYS:HA	1.99	0.45
19:B4:50:G:C2	24:BE:58:LYS:N	2.78	0.45
24:BE:63:GLN:CG	24:BE:74:VAL:HG21	2.46	0.45
36:BQ:25:VAL:HG23	36:BQ:30:TYR:CE2	2.52	0.45
1:AA:337:C:H5'	1:AA:1468:A:C2	2.52	0.45
1:AA:335:C:H2'	1:AA:336:C:H6	1.82	0.45
18:B3:492:C:O2	33:BN:100:ASN:CB	2.65	0.45
33:BN:26:LYS:HB2	33:BN:62:PHE:CE1	2.51	0.45
33:BN:66:ILE:CG1	33:BN:79:LYS:CD	2.94	0.45
42:B0:100:ILE:N	42:B0:100:ILE:HD13	2.19	0.45
18:B3:1348:A:O2'	23:BD:38:PHE:O	2.33	0.45
18:B3:677:C:O4'	23:BD:231:SER:N	2.43	0.45
23:BD:137:ARG:HG2	23:BD:137:ARG:HH11	1.82	0.45
23:BD:201:ARG:C	23:BD:202:ARG:HD3	2.37	0.45
23:BD:248:ILE:HG23	23:BD:248:ILE:O	2.17	0.45
34:BO:46:LYS:O	34:BO:46:LYS:HD3	2.16	0.45
34:BO:59:ARG:HG2	34:BO:85:GLY:HA3	1.99	0.45
34:BO:83:VAL:CG2	34:BO:103:ALA:CB	2.95	0.45
18:B3:1183:C:C3'	30:BK:85:LEU:HD12	2.47	0.45
18:B3:858:U:H2'	18:B3:859:C:H6	1.82	0.45
47:B9:55:THR:HG22	47:B9:61:LYS:CG	2.41	0.45
21:BB:172:GLY:H	47:B9:67:ALA:HB3	1.78	0.45
21:BB:57:LEU:CB	21:BB:74:ILE:CG2	2.95	0.45
18:B3:944:G:HO2'	25:BF:97:LYS:HE2	1.79	0.45
18:B3:945:U:O2'	18:B3:946:C:H5'	2.16	0.45
25:BF:82:LEU:CD1	25:BF:188:ILE:CD1	2.95	0.45
1:AA:190(E):U:OP2	16:AQ:136:PHE:C	2.55	0.45
18:B3:1206:C:O2'	18:B3:1207:A:P	2.75	0.45
18:B3:2064:U:H5'	18:B3:2652:U:H4'	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2653:A:C5'	22:BC:256:PRO:HB3	2.47	0.45
22:BC:10:HIS:HB2	22:BC:232:TRP:CD1	2.52	0.45
22:BC:120:ASN:CB	22:BC:129:PHE:HD1	2.28	0.45
22:BC:168:THR:CG2	22:BC:171:ALA:CB	2.94	0.45
22:BC:304:ILE:CD1	22:BC:322:MET:HE2	2.47	0.45
22:BC:327:ILE:HB	22:BC:328:PRO:HA	1.99	0.45
18:B3:2283:G:C5	28:BI:106:ALA:HB2	2.50	0.45
18:B3:2310:G:O3'	28:BI:119:TRP:CE2	2.47	0.45
28:BI:152:LEU:HD12	28:BI:152:LEU:N	2.30	0.45
28:BI:48:LEU:O	28:BI:139:ARG:HG3	2.17	0.45
28:BI:31:ILE:HD11	28:BI:69:ARG:HD3	1.98	0.45
37:BR:116:GLY:HA2	37:BR:117:PRO:HD3	1.68	0.45
37:BR:13:ILE:HD13	37:BR:14:SER:N	2.31	0.45
18:B3:2255:A:H2'	18:B3:2256:G:O4'	2.16	0.45
31:BL:50:LEU:CD2	31:BL:118:TYR:CE2	2.94	0.45
31:BL:139:LYS:C	31:BL:141:ILE:H	2.20	0.45
31:BL:43:ARG:CG	31:BL:46:LYS:CE	2.94	0.45
18:B3:1469:C:P	31:BL:66:ARG:HG2	2.57	0.45
18:B3:1787:C:O2	18:B3:2882:G:C3'	2.64	0.45
35:BP:96:ARG:HE	35:BP:96:ARG:HA	1.82	0.45
18:B3:2347:C:O2'	29:BJ:68:VAL:C	2.51	0.45
18:B3:2167:A:O2'	18:B3:2168:G:OP2	2.34	0.45
20:BA:64:SER:HB3	20:BA:107:TYR:CE2	2.52	0.45
20:BA:67:ILE:CG2	20:BA:84:ALA:HA	2.47	0.45
39:BT:80:ILE:HG23	39:BT:81:LEU:N	2.31	0.45
1:AA:560:U:H6	1:AA:560:U:O5'	1.99	0.45
3:AB:75:ILE:HD12	3:AB:97:ILE:O	2.17	0.45
18:B3:1295:G:OP1	41:BV:17:GLY:O	2.35	0.45
1:AA:1420:C:P	18:B3:1991:A:H5'	2.57	0.45
9:AI:132:GLY:O	9:AI:133:ALA:HB2	2.16	0.45
27:BH:151:VAL:O	27:BH:152:GLU:HB3	2.17	0.45
27:BH:90:MET:HB2	27:BH:181:VAL:CA	2.39	0.45
27:BH:90:MET:HB2	27:BH:182:SER:N	2.32	0.45
27:BH:94:TYR:CD1	27:BH:95:ALA:N	2.84	0.45
1:AA:777:A:H2'	11:AK:126:ARG:CD	2.33	0.45
18:B3:1396:C:O2'	35:BP:2:ASN:ND2	2.49	0.45
18:B3:1385:G:H4'	43:BW:49:ARG:CA	2.46	0.45
43:BW:52:PRO:CB	43:BW:56:GLN:HE22	2.30	0.45
1:AA:1375:A:N6	7:AG:76:TYR:HH	2.13	0.45
40:BU:58:VAL:HG23	40:BU:103:LYS:CE	2.46	0.45
1:AA:1344:C:H5'	9:AI:136:ARG:CA	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:698:A:OP1	41:BV:132:LEU:C	2.47	0.45
21:BB:203:MET:CG	21:BB:207:ASP:CB	2.95	0.45
15:AO:82:GLU:HA	15:AO:85:GLU:CB	2.46	0.45
32:BM:89:HIS:CG	32:BM:90:LYS:N	2.85	0.45
32:BM:93:ARG:HD3	32:BM:93:ARG:O	2.17	0.45
18:B3:1431:C:O2	33:BN:138:TYR:CE1	2.69	0.45
5:AD:39:LYS:CG	5:AD:40:LYS:H	2.12	0.45
36:BQ:11:THR:O	36:BQ:12:ARG:HG2	2.17	0.45
20:BA:97:LYS:HA	20:BA:100:ILE:CG2	2.46	0.45
15:AO:75:LYS:HD2	15:AO:76:SER:HA	1.99	0.45
2:AT:718:LEU:HA	2:AT:722:PRO:HG3	1.99	0.45
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.81	0.45
2:AT:16:VAL:O	2:AT:345:PRO:HD2	2.17	0.45
18:B3:438:C:O2'	18:B3:439:A:P	2.75	0.45
1:AA:260:G:O2'	1:AA:261:U:H5'	2.17	0.45
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.32	0.45
18:B3:18:C:H2'	18:B3:19:U:C6	2.51	0.45
1:AA:1322:C:N4	17:AS:81:ARG:NH1	2.48	0.45
1:AA:1330:U:C1'	13:AM:93:THR:HB	2.47	0.45
13:AM:132:ARG:HD3	13:AM:145:ARG:HB3	1.99	0.45
9:AI:99:GLN:CB	9:AI:115:LEU:H	2.24	0.45
9:AI:51:LEU:CA	9:AI:58:LYS:CG	2.95	0.45
9:AI:19:ALA:HB3	9:AI:83:ALA:HB1	1.93	0.45
19:B4:50:G:OP2	24:BE:98:ALA:HB2	2.17	0.45
24:BE:39:GLN:HB2	24:BE:145:PHE:CE1	2.51	0.45
24:BE:185:PHE:CD1	24:BE:203:HIS:ND1	2.85	0.45
24:BE:64:ILE:HG22	24:BE:76:ALA:O	2.16	0.45
1:AA:320:C:C4'	1:AA:1436:U:N1	2.60	0.45
33:BN:57:ILE:HA	33:BN:58:PRO:HD3	1.69	0.45
33:BN:68:ARG:N	33:BN:79:LYS:HB3	2.31	0.45
18:B3:1352:A:P	23:BD:49:TYR:H	2.40	0.45
18:B3:449:A:H2'	18:B3:1350:U:C2	2.39	0.45
23:BD:149:LEU:CD2	23:BD:246:PHE:HE2	2.28	0.45
18:B3:168:C:O2'	18:B3:169:A:H5'	2.16	0.45
18:B3:473:A:H5''	45:BY:48:TRP:NE1	2.32	0.45
18:B3:1183:C:C3'	30:BK:103:ASN:H	1.93	0.45
18:B3:816:G:C6	18:B3:817:G:N1	2.85	0.45
47:B9:23:ARG:CG	47:B9:27:LYS:HG3	2.47	0.45
47:B9:56:CYS:CA	47:B9:61:LYS:HD3	2.46	0.45
47:B9:56:CYS:C	47:B9:58:CYS:H	2.19	0.45
18:B3:1899:C:C1'	21:BB:223:THR:CG2	2.94	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:29:ARG:HE	21:BB:89:ALA:HB2	1.81	0.45
18:B3:695:C:H2'	18:B3:696:C:H6	1.82	0.45
25:BF:107:LEU:HD22	25:BF:107:LEU:O	2.16	0.45
25:BF:152:PHE:CD1	25:BF:152:PHE:N	2.83	0.45
18:B3:1086:A:OP2	25:BF:89:LYS:HE2	2.16	0.45
16:AQ:70:LEU:HD22	16:AQ:87:ARG:NH2	2.32	0.45
18:B3:72:C:C3'	44:BX:49:LYS:HZ1	2.29	0.45
44:BX:44:ILE:HG23	44:BX:44:ILE:O	2.17	0.45
18:B3:1057:A:O5'	28:BI:108:ALA:HB1	2.17	0.45
22:BC:162:HIS:HE2	22:BC:164:GLN:HG3	1.79	0.45
18:B3:2847:G:H3'	22:BC:173:LYS:HE2	1.98	0.45
22:BC:20:ARG:CD	22:BC:20:ARG:N	2.80	0.45
22:BC:228:VAL:HG21	22:BC:246:ARG:CD	2.43	0.45
22:BC:259:VAL:CG2	22:BC:261:TRP:HA	2.47	0.45
22:BC:217:ILE:CG2	22:BC:275:THR:HB	2.45	0.45
22:BC:176:HIS:HE1	22:BC:335:VAL:CG1	2.28	0.45
28:BI:99:ILE:CD1	28:BI:121:LYS:CD	2.95	0.45
28:BI:145:LYS:HD3	28:BI:145:LYS:C	2.37	0.45
28:BI:6:ALA:HB1	28:BI:10:ARG:NH2	2.32	0.45
37:BR:53:SER:O	37:BR:78:VAL:HG11	2.17	0.45
26:BG:110:LYS:N	26:BG:118:GLY:H	2.06	0.45
26:BG:121:LYS:HE2	26:BG:210:LEU:CB	2.43	0.45
26:BG:149:LEU:CD2	26:BG:210:LEU:HD21	2.47	0.45
26:BG:149:LEU:CD1	26:BG:214:VAL:CG1	2.94	0.45
31:BL:103:GLU:O	31:BL:104:ARG:HB2	2.17	0.45
31:BL:69:ASN:C	31:BL:70:ARG:HD3	2.37	0.45
18:B3:1814:G:N7	18:B3:2731:G:H2'	2.31	0.45
18:B3:1708:C:P	35:BP:87:ARG:HD3	2.56	0.45
35:BP:92:VAL:CA	35:BP:95:ILE:CD1	2.94	0.45
18:B3:2345:A:H1'	29:BJ:23:GLY:CA	2.44	0.45
29:BJ:83:LEU:HD21	29:BJ:90:LEU:HD11	1.99	0.45
20:BA:67:ILE:HD11	20:BA:144:LEU:HD21	1.99	0.45
39:BT:80:ILE:CG1	39:BT:81:LEU:N	2.79	0.45
10:AJ:79:TRP:N	14:AN:39:ARG:CD	2.80	0.45
6:AE:169:ILE:HG22	6:AE:196:TYR:HB3	1.90	0.45
12:AL:88:PRO:HD2	12:AL:124:VAL:CG2	2.47	0.45
12:AL:127:VAL:HA	12:AL:135:LEU:HD13	1.99	0.45
18:B3:2711:U:H4'	37:BR:39:VAL:O	2.16	0.45
27:BH:54:LYS:CD	27:BH:72:LYS:HE2	2.35	0.45
32:BM:17:ARG:H	32:BM:17:ARG:NE	2.15	0.45
35:BP:3:LEU:HB3	35:BP:6:GLN:CG	2.44	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:28:ALA:CB	43:BW:59:TRP:CD1	2.94	0.45
40:BU:58:VAL:HG11	40:BU:63:LYS:O	2.17	0.45
40:BU:74:TYR:C	40:BU:74:TYR:CD1	2.90	0.45
1:AA:500:G:C6	5:AD:25:ASP:OD2	2.70	0.45
41:BV:98:ALA:CB	41:BV:125:LYS:HE2	2.46	0.45
1:AA:122:G:N2	1:AA:288:A:C2	2.81	0.45
31:BL:177:HIS:CD2	31:BL:178:LYS:H	2.34	0.45
46:BZ:1:VAL:HG12	46:BZ:91:GLU:OE2	2.17	0.45
18:B3:2692:G:C8	18:B3:2693:U:C5	3.03	0.45
11:AK:15:VAL:HG13	11:AK:81:LYS:NZ	2.32	0.45
11:AK:12:VAL:HA	11:AK:74:GLY:O	2.16	0.45
3:AB:44:VAL:HG23	3:AB:44:VAL:O	2.17	0.45
4:AC:114:ILE:HG23	4:AC:115:ARG:N	2.32	0.45
1:AA:55:A:N1	2:AT:68:ILE:HG13	2.32	0.45
8:AH:103:LEU:HD21	8:AH:124:ILE:HG22	1.95	0.45
29:BJ:8:MET:HE3	29:BJ:9:ARG:CD	2.47	0.45
5:AD:69:ARG:CZ	5:AD:76:LEU:CD2	2.95	0.45
38:BS:39:LEU:HD23	38:BS:39:LEU:C	2.36	0.45
1:AA:839:U:O2	1:AA:839:U:C2'	2.58	0.45
1:AA:328:C:O2	1:AA:328:C:C2'	2.58	0.45
1:AA:542:G:H2'	1:AA:543:C:H6	1.80	0.45
2:AT:500:ASP:CG	2:AT:552:VAL:HG11	2.37	0.45
18:B3:938:G:O2'	18:B3:939:A:C8	2.70	0.45
1:AA:989:C:H5''	1:AA:1013:G:H1'	1.74	0.45
13:AM:129:TRP:CZ3	17:AS:121:ILE:HB	2.44	0.45
33:BN:133:GLY:O	33:BN:134:ARG:HB2	2.16	0.45
18:B3:2416:G:H2'	18:B3:2417:C:C6	2.51	0.45
19:B4:49:G:H5''	24:BE:99:TYR:CE2	2.49	0.45
36:BQ:43:LYS:NZ	36:BQ:96:ILE:HD12	2.32	0.45
36:BQ:45:ASN:ND2	36:BQ:45:ASN:H	2.11	0.45
18:B3:2424:U:H1'	36:BQ:8:ARG:HB2	1.99	0.45
33:BN:104:LYS:CD	33:BN:106:LEU:HD12	2.23	0.45
18:B3:1313:A:OP1	42:B0:105:ARG:CD	2.65	0.45
23:BD:198:TRP:HD1	23:BD:200:GLN:H	1.56	0.45
34:BO:130:ARG:CG	34:BO:131:ALA:N	2.72	0.45
23:BD:64:TRP:HE1	23:BD:70:VAL:HG21	1.80	0.45
30:BK:113:ALA:HA	30:BK:132:ILE:HD12	1.95	0.45
18:B3:1900:A:OP2	21:BB:225:SER:OG	2.28	0.45
21:BB:179:LEU:HD11	47:B9:21:LEU:HA	1.56	0.45
21:BB:236:LEU:HD21	21:BB:242:THR:CG2	2.46	0.45
25:BF:177:ILE:HG13	25:BF:182:ASP:OD1	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:98:PRO:C	25:BF:100:LYS:H	2.20	0.45
16:AQ:128:ARG:CG	16:AQ:129:PRO:HD2	2.47	0.45
18:B3:68:U:H2'	44:BX:55:LEU:CG	2.44	0.45
18:B3:108:U:H5	44:BX:60:GLU:C	2.17	0.45
18:B3:1055:G:O6	28:BI:13:LYS:NZ	2.50	0.45
18:B3:1730:G:C5'	18:B3:1731:C:H6	2.29	0.45
18:B3:2709:G:C8	37:BR:7:GLN:C	2.90	0.45
18:B3:2712:G:OP1	37:BR:50:PRO:O	2.34	0.45
22:BC:116:ARG:CD	22:BC:174:LYS:HG2	2.47	0.45
22:BC:206:SER:N	22:BC:208:PHE:CE1	2.84	0.45
22:BC:208:PHE:CD1	22:BC:208:PHE:N	2.84	0.45
22:BC:231:ARG:HG2	22:BC:269:ARG:NH2	2.31	0.45
22:BC:302:LYS:CB	22:BC:320:PHE:HZ	2.29	0.45
22:BC:311:VAL:CG1	22:BC:312:HIS:N	2.77	0.45
28:BI:54:SER:O	28:BI:55:ASN:HB2	2.17	0.45
28:BI:58:GLU:HG3	28:BI:128:ARG:CG	2.32	0.45
18:B3:2763:G:H2'	37:BR:14:SER:OG	2.14	0.45
37:BR:13:ILE:HD12	37:BR:53:SER:OG	2.15	0.45
26:BG:152:ILE:HG22	26:BG:177:ALA:O	2.17	0.45
31:BL:65:VAL:H	31:BL:126:TYR:HD2	1.62	0.45
31:BL:29:TYR:CE1	31:BL:62:ARG:HD2	2.52	0.45
18:B3:1808:C:C6	18:B3:2885:A:P	3.07	0.45
35:BP:80:ARG:HG3	35:BP:87:ARG:NH1	2.32	0.45
29:BJ:155:LYS:HD2	29:BJ:155:LYS:H	1.82	0.45
20:BA:58:CYS:SG	20:BA:59:PRO:HD2	2.56	0.45
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.16	0.45
14:AN:21:ARG:HG3	14:AN:21:ARG:HH11	1.81	0.45
8:AH:102:ILE:O	8:AH:102:ILE:HG23	2.16	0.45
27:BH:125:ASN:ND2	27:BH:126:VAL:H	2.15	0.45
27:BH:173:ARG:CZ	27:BH:173:ARG:CB	2.94	0.45
27:BH:44:THR:CG2	27:BH:55:VAL:CG1	2.95	0.45
27:BH:40:HIS:HD1	32:BM:127:ARG:H	1.65	0.45
18:B3:1227:C:H4'	32:BM:132:ARG:CZ	2.34	0.45
32:BM:11:LYS:HA	32:BM:36:ARG:HD2	1.98	0.45
43:BW:11:TYR:CE2	43:BW:35:ILE:HA	2.52	0.45
43:BW:17:LYS:CD	43:BW:66:VAL:CG1	2.93	0.45
46:BZ:65:LYS:CA	46:BZ:66:LYS:HE2	2.46	0.45
46:BZ:82:LEU:HG	46:BZ:83:THR:O	2.17	0.45
40:BU:100:HIS:HB2	40:BU:101:PRO:C	2.38	0.45
40:BU:41:ALA:O	40:BU:42:GLN:HG2	2.17	0.45
40:BU:27:ARG:CB	40:BU:78:PHE:HE2	2.29	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:99:LEU:HD12	40:BU:99:LEU:N	2.31	0.45
1:AA:358:U:H4'	2:AT:390:ASP:CA	2.47	0.45
41:BV:118:PRO:HB2	41:BV:121:PRO:CA	2.47	0.45
1:AA:1483:A:O2'	18:B3:1988:C:N3	2.50	0.45
1:AA:728:A:H61	15:AO:108:LYS:CE	2.30	0.45
18:B3:274:G:O2'	18:B3:275:G:H5'	2.17	0.45
1:AA:1442:G:N2	1:AA:1446:A:H3'	2.32	0.45
16:AQ:93:ILE:O	16:AQ:97:ASN:HA	2.17	0.45
4:AC:109:LEU:HD12	4:AC:176:MET:HG2	1.99	0.45
4:AC:121:VAL:HG23	4:AC:122:VAL:N	2.32	0.45
4:AC:188:MET:HE2	4:AC:189:ARG:O	2.17	0.45
16:AQ:74:VAL:HG13	16:AQ:83:ILE:CD1	2.47	0.45
30:BK:29:ALA:HB3	30:BK:30:PRO:CD	2.43	0.45
40:BU:89:LYS:N	40:BU:89:LYS:CE	2.80	0.45
1:AA:527:G:O2'	1:AA:535:A:N1	2.34	0.45
2:AT:607:ASN:HA	2:AT:608:PRO:HD3	1.85	0.45
1:AA:1135:U:H6	1:AA:1135:U:O5'	2.00	0.45
18:B3:1573:A:H2'	18:B3:1574:C:O4'	2.16	0.45
1:AA:628:G:H2'	1:AA:629:G:H8	1.82	0.45
18:B3:1283:G:O2'	18:B3:1284:G:H5'	2.16	0.45
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.17	0.45
29:BJ:12:LYS:C	29:BJ:12:LYS:HD2	2.37	0.45
1:AA:1222:G:P	17:AS:120:SER:OG	2.75	0.45
13:AM:113:LEU:N	13:AM:113:LEU:HD12	2.32	0.45
13:AM:26:ILE:CG1	13:AM:27:LYS:H	2.27	0.45
1:AA:1302:U:P	13:AM:54:LEU:CG	3.05	0.45
18:B3:844:A:OP1	33:BN:130:ARG:HB3	2.09	0.45
42:B0:36:LYS:CE	42:B0:37:GLY:H	2.29	0.45
18:B3:615:G:H2'	18:B3:616:U:C6	2.52	0.45
24:BE:80:SER:H	24:BE:101:THR:HG21	1.81	0.45
24:BE:33:ARG:C	24:BE:36:LEU:HG	2.37	0.45
24:BE:41:LYS:O	24:BE:49:TYR:HB2	2.17	0.45
19:B4:119:C:C5'	24:BE:68:THR:OG1	2.59	0.45
36:BQ:96:ILE:CG2	36:BQ:97:LYS:N	2.80	0.45
1:AA:318:G:O4'	1:AA:1468:A:C4'	2.49	0.45
33:BN:25:PHE:CE2	33:BN:28:THR:CG2	2.99	0.45
18:B3:26:U:N1	18:B3:1319:G:H2'	2.32	0.45
18:B3:517:U:C2	18:B3:1319:G:N2	2.80	0.45
18:B3:28:G:H5''	18:B3:1343:C:C5'	2.47	0.45
18:B3:671:A:C5'	23:BD:212:ASN:C	2.71	0.45
23:BD:134:VAL:HG22	23:BD:147:ILE:HD11	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:151:VAL:CG2	23:BD:248:ILE:CD1	2.95	0.45
34:BO:79:LYS:HZ2	34:BO:99:THR:HG23	1.82	0.45
18:B3:1358:A:N6	23:BD:88:ALA:CA	2.66	0.45
18:B3:2275:G:C4'	31:BL:80:TYR:O	2.65	0.45
18:B3:773:A:C1'	45:BY:46:TYR:CE2	2.99	0.45
18:B3:1168:C:C1'	30:BK:110:ILE:HG21	2.47	0.45
21:BB:166:GLY:O	47:B9:79:ARG:NH2	2.50	0.45
21:BB:113:SER:CB	21:BB:168:ILE:CD1	2.95	0.45
21:BB:111:ILE:CG2	21:BB:132:TYR:HB2	2.40	0.45
21:BB:72:GLU:HB2	21:BB:74:ILE:HD11	1.99	0.45
41:BV:64:GLN:HG3	41:BV:65:ALA:N	2.32	0.45
25:BF:138:PRO:HB2	25:BF:143:ILE:HG12	1.97	0.45
1:AA:190(D):U:C2	16:AQ:111:SER:OG	2.56	0.45
22:BC:115:ARG:CA	22:BC:115:ARG:CZ	2.94	0.45
18:B3:2809:G:C3'	22:BC:16:LEU:O	2.64	0.45
22:BC:17:PRO:HG2	22:BC:19:LYS:CG	2.43	0.45
22:BC:18:ARG:HH11	22:BC:18:ARG:HA	1.80	0.45
22:BC:232:TRP:CZ2	22:BC:264:ALA:CA	3.00	0.45
22:BC:75:VAL:CG2	22:BC:326:CYS:CB	2.94	0.45
22:BC:221:LYS:CG	22:BC:331:ARG:CD	2.95	0.45
28:BI:51:HIS:NE2	28:BI:148:VAL:HG22	2.32	0.45
28:BI:65:LEU:HD12	28:BI:69:ARG:HB3	1.95	0.45
22:BC:70:GLU:HG3	37:BR:88:ARG:HA	1.31	0.45
22:BC:54:THR:CG2	37:BR:91:VAL:CG2	2.92	0.45
37:BR:95:PHE:CE1	38:BS:21:PHE:HB3	2.46	0.45
26:BG:130:ALA:HB2	26:BG:202:VAL:CB	2.46	0.45
31:BL:119:TRP:CE3	31:BL:119:TRP:CA	3.00	0.45
31:BL:152:ASP:H	31:BL:157:HIS:CE1	2.35	0.45
31:BL:183:LYS:HE3	31:BL:193:GLN:O	2.16	0.45
18:B3:1809:G:OP1	18:B3:2866:U:OP1	2.35	0.45
18:B3:2214:A:C4	20:BA:106:LYS:CD	3.00	0.45
20:BA:54:LYS:HZ1	20:BA:153:SER:CB	2.30	0.45
18:B3:1676:G:N7	39:BT:112:LEU:HD12	2.31	0.45
4:AC:82:THR:HG22	4:AC:83:ILE:N	2.32	0.45
3:AB:31:HIS:C	3:AB:33:GLU:H	2.19	0.45
3:AB:67:PRO:CG	3:AB:180:VAL:HG13	2.47	0.45
5:AD:99:LEU:CD2	5:AD:103:ASP:N	2.80	0.45
5:AD:116:LEU:CB	5:AD:118:LEU:CD2	2.94	0.45
5:AD:132:ARG:CB	5:AD:140:ILE:HD11	2.34	0.45
6:AE:170:PRO:CG	8:AH:96:ARG:HB2	2.45	0.45
1:AA:33:A:H4'	1:AA:365:U:H5'	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:102:G:C2'	1:AA:151:A:HO2'	2.29	0.45
37:BR:28:ASN:CG	37:BR:29:SER:H	2.20	0.45
27:BH:108:GLY:O	27:BH:111:PHE:HD2	2.00	0.45
27:BH:112:ILE:CD1	27:BH:128:VAL:CG2	2.93	0.45
27:BH:18:VAL:CG1	27:BH:48:VAL:CG2	2.94	0.45
27:BH:28:VAL:C	27:BH:82:VAL:HG21	2.36	0.45
27:BH:93:VAL:CG1	27:BH:94:TYR:N	2.80	0.45
18:B3:1228:C:C5'	32:BM:47:PHE:CD1	2.93	0.45
1:AA:678:U:C4'	11:AK:127:LYS:CA	2.70	0.45
35:BP:4:ARG:HD3	35:BP:5:THR:CA	2.47	0.45
43:BW:40:LYS:HD2	43:BW:46:ASP:O	2.17	0.45
1:AA:864:A:H5'	6:AE:204:ARG:HH12	1.81	0.45
1:AA:357:G:OP1	1:AA:366:C:H5''	2.12	0.45
1:AA:356:A:H5''	1:AA:366:C:H2'	1.98	0.45
41:BV:75:ASP:CA	41:BV:78:TRP:CD1	2.94	0.45
1:AA:580:U:H2'	1:AA:581:G:O4'	2.17	0.45
15:AO:108:LYS:C	15:AO:108:LYS:HD3	2.36	0.45
11:AK:14:GLY:O	11:AK:78:VAL:HA	2.17	0.45
1:AA:598:U:H4'	8:AH:88:TRP:CD2	2.52	0.45
3:AB:110:ILE:HG13	6:AE:116:THR:O	2.17	0.45
4:AC:118:ALA:CB	4:AC:149:MET:CE	2.94	0.45
20:BA:128:LEU:HD23	20:BA:135:PRO:HD3	1.99	0.45
6:AE:142:TYR:CD2	6:AE:143:TRP:N	2.81	0.45
1:AA:555:C:OP2	12:AL:38:PHE:CG	2.66	0.45
42:B0:64:LYS:HG2	42:B0:65:PHE:N	2.31	0.45
16:AQ:76:SER:HB3	16:AQ:84:VAL:HG11	1.97	0.45
16:AQ:74:VAL:CG1	16:AQ:83:ILE:CG1	2.94	0.45
2:AT:584:ASN:HD22	2:AT:693:LEU:HA	1.82	0.45
3:AB:193:PRO:CB	3:AB:196:ILE:HD12	2.46	0.45
11:AK:113:ARG:HD2	11:AK:115:GLU:CD	2.36	0.45
1:AA:1474:G:O2'	1:AA:1475:G:H5'	2.16	0.45
26:BG:182:LYS:CD	26:BG:182:LYS:H	2.30	0.45
6:AE:83:LYS:CG	6:AE:84:PRO:HD2	2.47	0.45
29:BJ:54:ARG:HG3	29:BJ:55:THR:H	1.82	0.45
18:B3:2160:A:O2'	18:B3:2162:G:OP2	2.35	0.45
18:B3:2115:U:H2'	18:B3:2116:U:C6	2.52	0.45
2:AT:380:LEU:HD23	2:AT:380:LEU:C	2.37	0.45
1:AA:1316:G:O6	17:AS:50:THR:CB	2.65	0.45
24:BE:116:ASP:CG	24:BE:117:GLU:H	2.20	0.45
24:BE:30:TYR:CD1	24:BE:33:ARG:NH1	2.85	0.45
36:BQ:48:ILE:HB	36:BQ:94:GLU:OE2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BQ:62:GLY:HA3	36:BQ:77:ASN:H	1.82	0.45
33:BN:46:TYR:O	33:BN:47:LEU:HB2	2.17	0.45
33:BN:82:TRP:CB	33:BN:83:PRO:CA	2.94	0.45
42:B0:72:LYS:N	42:B0:90:LYS:CB	2.80	0.45
42:B0:72:LYS:H	42:B0:90:LYS:HB2	1.80	0.45
18:B3:26:U:C3'	18:B3:1319:G:O2'	2.64	0.45
18:B3:1343:C:C6	23:BD:186:LEU:CD1	2.80	0.45
23:BD:194:ARG:HG3	23:BD:195:ASN:O	2.17	0.45
34:BO:102:ALA:HB1	34:BO:124:LEU:N	2.31	0.45
34:BO:34:THR:CG2	34:BO:35:PHE:N	2.80	0.45
34:BO:33:TYR:HD2	34:BO:48:VAL:HG13	1.81	0.45
23:BD:63:SER:N	23:BD:74:PRO:HB3	2.32	0.45
45:BY:33:CYS:N	45:BY:38:TYR:CD1	2.85	0.45
45:BY:32:THR:HG1	45:BY:38:TYR:HB2	1.82	0.45
31:BL:82:LYS:HZ1	46:BZ:49:PHE:CB	2.28	0.45
18:B3:1163:G:H4'	30:BK:54:LYS:CA	2.46	0.45
21:BB:134:ILE:CD1	21:BB:148:ARG:CG	2.94	0.45
21:BB:162:ARG:CD	21:BB:163:GLY:N	2.80	0.45
18:B3:783:C:P	21:BB:189:ARG:HH11	2.40	0.45
19:B4:95:C:O2'	19:B4:96:C:H5'	2.17	0.45
25:BF:102:LEU:HD11	25:BF:129:ILE:CG2	2.46	0.45
18:B3:2526:C:C1'	18:B3:2604:A:O2'	2.64	0.45
39:BT:59:TYR:CD2	39:BT:60:LYS:N	2.85	0.45
18:B3:1133:A:OP1	28:BI:162:GLN:CD	2.53	0.45
18:B3:2846:C:C3'	22:BC:172:GLN:OE1	2.65	0.45
22:BC:104:VAL:HB	22:BC:198:PHE:CZ	2.52	0.45
28:BI:6:ALA:CB	28:BI:10:ARG:HH21	2.30	0.45
28:BI:121:LYS:HD3	28:BI:121:LYS:H	1.79	0.45
37:BR:92:PHE:HB3	37:BR:93:LEU:H	1.45	0.45
18:B3:2256:G:O2'	18:B3:2257:G:H5'	2.17	0.45
35:BP:62:THR:O	35:BP:63:ARG:HB3	2.17	0.45
35:BP:97:ARG:HB2	35:BP:97:ARG:HH11	1.79	0.45
35:BP:98:LEU:O	35:BP:99:ARG:HB2	2.17	0.45
20:BA:65:ILE:HD13	20:BA:151:VAL:HG21	1.98	0.45
20:BA:36:VAL:CG2	20:BA:204:LEU:CD1	2.95	0.45
1:AA:560:U:O2	1:AA:563:A:O4'	2.35	0.45
5:AD:97:LEU:CD2	5:AD:105:LEU:CD1	2.95	0.45
5:AD:157:ASP:HB3	5:AD:160:PRO:CD	2.47	0.45
12:AL:59:ILE:CD1	12:AL:117:ILE:HG21	2.47	0.45
18:B3:2781:U:C2'	18:B3:2782:G:H5'	2.47	0.45
27:BH:42:ASP:H	32:BM:124:ARG:CA	2.29	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:16:VAL:HG23	35:BP:17:GLY:O	2.17	0.45
18:B3:1396:C:C2'	35:BP:2:ASN:HB3	2.47	0.45
43:BW:58:ILE:C	43:BW:59:TRP:CD2	2.91	0.45
18:B3:2457:U:H4'	46:BZ:82:LEU:O	2.17	0.45
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.17	0.45
2:AT:749:LYS:HG3	18:B3:2508:C:C5	2.50	0.45
41:BV:80:LEU:CD2	41:BV:86:ARG:CG	2.94	0.45
1:AA:111:G:H4'	1:AA:389:A:O2'	2.16	0.45
1:AA:390:C:O5'	1:AA:390:C:H6	2.00	0.45
18:B3:219:G:O2'	18:B3:220:C:P	2.75	0.45
46:BZ:40:ARG:CG	46:BZ:41:ARG:N	2.80	0.45
11:AK:13:PHE:HD1	11:AK:77:ALA:HB3	1.82	0.45
10:AJ:64:LYS:HZ3	10:AJ:83:GLU:HG3	1.80	0.45
18:B3:875:A:O2'	21:BB:203:MET:CE	2.65	0.45
4:AC:101:ALA:CA	4:AC:185:VAL:CG2	2.95	0.45
32:BM:93:ARG:HE	32:BM:97:ALA:HB3	1.82	0.45
32:BM:2:VAL:HG12	32:BM:32:ILE:HD11	1.99	0.45
33:BN:127:ARG:HD3	33:BN:127:ARG:HA	1.41	0.45
4:AC:188:MET:HE1	4:AC:191:PRO:HD3	1.98	0.45
7:AG:135:ALA:HB1	7:AG:200:ALA:HB3	1.98	0.45
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.82	0.45
16:AQ:74:VAL:HG13	16:AQ:83:ILE:HD11	1.99	0.45
24:BE:133:GLU:HG2	24:BE:134:ALA:H	1.81	0.45
2:AT:279:ASP:OD2	2:AT:283:ARG:CZ	2.65	0.45
1:AA:540:G:H2'	1:AA:541:G:O4'	2.17	0.45
18:B3:2710:U:H4'	37:BR:56:ASP:HA	1.99	0.45
1:AA:1438:G:H2'	1:AA:1439:C:C6	2.52	0.45
1:AA:1318:A:HO2'	17:AS:55:GLY:HA2	1.82	0.44
13:AM:18:LEU:HD23	13:AM:35:ILE:HD13	1.98	0.44
1:AA:1219:U:H3'	17:AS:78:THR:OG1	2.16	0.44
18:B3:617:C:H5'	42:B0:47:ARG:HH11	1.52	0.44
18:B3:622:G:H8	42:B0:36:LYS:HD3	1.79	0.44
18:B3:638:C:H2'	18:B3:639:A:C8	2.52	0.44
9:AI:101:LYS:O	9:AI:105:LYS:HG3	2.16	0.44
9:AI:39:GLU:HB2	9:AI:42:ILE:CD1	2.47	0.44
10:AJ:50:LEU:C	10:AJ:50:LEU:HD23	2.38	0.44
24:BE:76:ALA:HB3	24:BE:109:THR:N	2.32	0.44
24:BE:106:ALA:CB	24:BE:166:ALA:HA	2.30	0.44
24:BE:50:ARG:CZ	24:BE:52:VAL:CG2	2.95	0.44
24:BE:50:ARG:HD2	24:BE:52:VAL:HG22	1.99	0.44
18:B3:2662:G:HO2'	18:B3:2814:A:H2	0.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:118:VAL:CG2	33:BN:119:ASN:H	2.25	0.44
33:BN:14:ALA:N	33:BN:149:VAL:HG12	2.32	0.44
33:BN:25:PHE:HA	33:BN:28:THR:CG2	2.46	0.44
33:BN:65:SER:O	33:BN:66:ILE:HD13	2.17	0.44
33:BN:66:ILE:O	33:BN:79:LYS:HD2	2.16	0.44
33:BN:70:ALA:H	33:BN:73:LYS:HD3	1.82	0.44
23:BD:128:THR:CG2	23:BD:247:VAL:CG2	2.95	0.44
18:B3:710:G:C5'	34:BO:44:PHE:HD2	2.13	0.44
18:B3:170:U:C5'	31:BL:82:LYS:HB2	2.48	0.44
45:BY:25:SER:HB3	45:BY:35:SER:OG	2.18	0.44
21:BB:47:ILE:HD11	47:B9:62:THR:HB	1.92	0.44
18:B3:1869:A:H1'	21:BB:10:GLY:C	2.37	0.44
21:BB:195:TRP:CH2	21:BB:197:LYS:CD	2.95	0.44
21:BB:22:ARG:N	21:BB:22:ARG:HD3	2.32	0.44
21:BB:240:ARG:HG2	21:BB:241:ARG:HH12	1.80	0.44
25:BF:110:ILE:O	25:BF:111:ASN:HB2	2.17	0.44
25:BF:82:LEU:HD12	25:BF:188:ILE:HD13	1.98	0.44
18:B3:1133:A:C8	18:B3:2521:A:O4'	2.69	0.44
22:BC:101:LEU:CD1	22:BC:145:ARG:CD	2.95	0.44
22:BC:172:GLN:HB2	22:BC:173:LYS:CE	2.47	0.44
18:B3:2093:G:C2'	22:BC:253:ALA:HB1	2.14	0.44
18:B3:2065:C:H6	22:BC:255:HIS:CE1	2.30	0.44
22:BC:49:LYS:HZ2	22:BC:333:ARG:H	1.65	0.44
22:BC:42:LEU:CD1	22:BC:42:LEU:H	2.27	0.44
28:BI:38:LYS:HD3	28:BI:40:LYS:CE	2.46	0.44
28:BI:57:LEU:HB3	28:BI:58:GLU:OE2	2.17	0.44
37:BR:93:LEU:HB2	38:BS:21:PHE:CD1	2.51	0.44
18:B3:2242:U:H4'	18:B3:2243:C:OP1	2.17	0.44
18:B3:2264:A:H5''	31:BL:92:LYS:CE	2.39	0.44
18:B3:401:C:C4'	31:BL:94:GLN:C	2.50	0.44
18:B3:401:C:H2'	18:B3:402:U:C6	2.52	0.44
26:BG:107:ARG:HG3	26:BG:108:LEU:N	2.31	0.44
26:BG:130:ALA:CB	26:BG:202:VAL:CB	2.94	0.44
26:BG:150:VAL:CG2	26:BG:176:TYR:CB	2.93	0.44
31:BL:187:ARG:NH1	31:BL:188:LYS:H	2.04	0.44
31:BL:52:TYR:C	31:BL:52:TYR:CD1	2.90	0.44
7:AG:123:LEU:H	7:AG:123:LEU:HD12	1.82	0.44
18:B3:2347:C:O2'	29:BJ:17:VAL:HG21	2.17	0.44
29:BJ:36:LEU:HB3	29:BJ:67:HIS:NE2	2.32	0.44
20:BA:49:PHE:HD2	20:BA:193:LEU:HD21	1.82	0.44
39:BT:80:ILE:O	39:BT:81:LEU:HB3	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:5:U:O2'	1:AA:6:G:P	2.75	0.44
1:AA:402:G:C5'	1:AA:620:C:H2'	2.47	0.44
1:AA:616:G:P	5:AD:149:ARG:HG3	2.57	0.44
8:AH:125:LEU:H	8:AH:125:LEU:CD1	2.30	0.44
8:AH:26:ILE:HG22	8:AH:60:ILE:HB	1.99	0.44
8:AH:26:ILE:HD12	8:AH:62:VAL:HG21	1.99	0.44
12:AL:117:ILE:CD1	12:AL:120:VAL:HG21	2.47	0.44
12:AL:70:LYS:HD2	12:AL:70:LYS:N	2.32	0.44
2:AT:535:GLU:HB2	18:B3:2698:G:H21	1.82	0.44
37:BR:28:ASN:CA	37:BR:102:ILE:CD1	2.94	0.44
37:BR:101:VAL:HG22	37:BR:102:ILE:HD13	1.99	0.44
1:AA:1372:U:H5''	9:AI:74:VAL:HG21	0.46	0.44
27:BH:104:VAL:HG12	27:BH:111:PHE:CA	2.47	0.44
27:BH:129:ARG:HH11	27:BH:156:GLN:HE22	1.65	0.44
27:BH:59:ASN:CG	27:BH:60:GLY:H	2.20	0.44
32:BM:75:PRO:O	32:BM:79:PHE:CD1	2.70	0.44
1:AA:920:U:H4'	1:AA:1080:A:N9	2.27	0.44
18:B3:1397:C:O2'	35:BP:25:PRO:HG3	2.16	0.44
35:BP:43:LEU:N	35:BP:43:LEU:CD2	2.81	0.44
18:B3:82:C:H1'	40:BU:75:ARG:NH1	2.24	0.44
41:BV:126:ALA:CA	41:BV:146:LEU:CD1	2.95	0.44
41:BV:81:ILE:CD1	41:BV:86:ARG:CD	2.95	0.44
1:AA:118:U:O3'	1:AA:122:G:C5	2.68	0.44
1:AA:113:G:H1'	1:AA:354:G:C5'	2.47	0.44
18:B3:270:U:O2'	18:B3:271:C:OP2	2.33	0.44
30:BK:40:LYS:C	30:BK:40:LYS:HD3	2.37	0.44
4:AC:24:PHE:CD2	4:AC:49:ILE:HG21	2.52	0.44
40:BU:115:ARG:HH11	40:BU:118:LEU:HB3	1.82	0.44
1:AA:1003(A):G:H2'	1:AA:1004:A:H4'	1.99	0.44
18:B3:1474:C:H5'	18:B3:1474:C:C6	2.49	0.44
18:B3:1496:G:H2'	18:B3:1497:G:C8	2.52	0.44
18:B3:2831:C:C2'	18:B3:2832:C:H5'	2.46	0.44
18:B3:1406:A:H4'	18:B3:1407:A:O5'	2.17	0.44
18:B3:319:A:H4'	18:B3:338:C:C4	2.53	0.44
1:AA:1237:C:H2'	1:AA:1336:C:C5	2.52	0.44
13:AM:44:ASN:O	13:AM:48:LYS:HB2	2.17	0.44
18:B3:540:A:O5'	42:B0:16:LYS:O	2.35	0.44
10:AJ:22:ILE:CG2	10:AJ:116:VAL:CG1	2.95	0.44
10:AJ:55:PRO:N	10:AJ:91:ILE:HG23	2.33	0.44
10:AJ:96:PRO:CB	10:AJ:99:ILE:HD12	2.47	0.44
19:B4:47:A:H5''	24:BE:160:PHE:HZ	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:59:C:H2'	19:B4:60:C:H6	1.82	0.44
19:B4:68:G:O3'	24:BE:13:SER:HB3	2.11	0.44
24:BE:180:PHE:CB	24:BE:181:PRO:HD2	2.45	0.44
19:B4:49:G:H4'	24:BE:96:ALA:H	1.47	0.44
18:B3:1316:G:OP1	42:B0:104:ASN:O	2.35	0.44
42:B0:73:THR:O	42:B0:74:PHE:HB3	2.18	0.44
18:B3:29:C:OP2	23:BD:192:LYS:HD3	2.16	0.44
23:BD:215:VAL:HG11	23:BD:218:LEU:CD2	2.41	0.44
23:BD:256:LYS:O	23:BD:257:LEU:HB3	2.16	0.44
18:B3:450:C:H1'	23:BD:47:GLN:OE1	2.17	0.44
45:BY:16:THR:CG2	45:BY:17:LEU:H	2.24	0.44
18:B3:1852:A:H1'	21:BB:236:LEU:HA	1.98	0.44
47:B9:55:THR:HG1	47:B9:62:THR:HA	1.81	0.44
21:BB:224:ILE:HG12	21:BB:232:GLN:HE21	1.83	0.44
19:B4:94:G:O2'	19:B4:95:C:H5'	2.17	0.44
44:BX:25:LYS:HZ3	44:BX:28:LEU:CD2	2.29	0.44
18:B3:1741:U:O3'	18:B3:2723:G:C3'	2.65	0.44
18:B3:2520:G:OP1	28:BI:160:PRO:CB	2.61	0.44
18:B3:2653:A:H2'	18:B3:2654:C:C6	2.51	0.44
18:B3:2672:C:O2'	18:B3:2673:U:H5'	2.17	0.44
22:BC:185:GLY:N	22:BC:190:LYS:CG	2.80	0.44
22:BC:259:VAL:HG22	22:BC:261:TRP:HB3	1.98	0.44
22:BC:217:ILE:O	22:BC:336:THR:HG23	2.17	0.44
22:BC:38:LYS:HB2	22:BC:39:PRO:CA	2.46	0.44
22:BC:52:MET:CE	22:BC:53:THR:H	2.12	0.44
22:BC:45:PHE:CE1	22:BC:81:PRO:CB	2.98	0.44
28:BI:134:ILE:N	28:BI:134:ILE:HD13	2.20	0.44
37:BR:54:LEU:HD13	37:BR:78:VAL:CG2	2.48	0.44
37:BR:79:VAL:HG11	37:BR:118:VAL:HG12	1.98	0.44
26:BG:152:ILE:CD1	26:BG:162:VAL:CG2	2.94	0.44
31:BL:65:VAL:N	31:BL:126:TYR:HD2	2.16	0.44
18:B3:1816:C:C2	18:B3:2746:A:C2	3.06	0.44
29:BJ:136:ARG:NH2	29:BJ:137:VAL:HA	2.32	0.44
29:BJ:16:LEU:CD1	29:BJ:75:ALA:HB1	2.46	0.44
29:BJ:83:LEU:HD11	29:BJ:90:LEU:HD12	1.99	0.44
18:B3:2220:C:C4'	20:BA:210:MET:O	2.64	0.44
18:B3:1674:C:P	39:BT:121:ALA:HB1	2.50	0.44
39:BT:95:LYS:CD	39:BT:106:VAL:HG23	2.30	0.44
39:BT:132:LEU:H	39:BT:132:LEU:HD23	1.82	0.44
39:BT:61:VAL:HG13	39:BT:62:ILE:N	2.32	0.44
39:BT:71:ALA:O	39:BT:75:VAL:HG22	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:101:VAL:HB	5:AD:189:ASP:O	2.17	0.44
1:AA:619:U:H5''	5:AD:142:ASN:H	1.41	0.44
5:AD:162:SER:HB2	5:AD:163:PRO:CD	2.37	0.44
1:AA:65:U:P	1:AA:96:G:C3'	2.93	0.44
18:B3:1993:C:O3'	37:BR:71:LYS:CD	2.61	0.44
18:B3:1118:A:H8	18:B3:1119:G:H5''	1.83	0.44
18:B3:1227:C:OP1	18:B3:1244:U:C4	2.70	0.44
32:BM:107:ILE:HG13	32:BM:108:PRO:HD2	1.98	0.44
32:BM:126:LEU:HG	32:BM:126:LEU:O	2.17	0.44
18:B3:1227:C:C5'	32:BM:132:ARG:NH1	2.80	0.44
32:BM:15:VAL:HG12	32:BM:40:LEU:CD1	2.48	0.44
35:BP:8:ARG:NE	35:BP:8:ARG:HA	2.15	0.44
43:BW:19:LEU:HA	43:BW:19:LEU:HD23	1.80	0.44
43:BW:35:ILE:HD12	43:BW:50:LEU:HD22	1.99	0.44
43:BW:9:ARG:HH12	43:BW:72:LEU:HD11	1.82	0.44
40:BU:57:LEU:HA	40:BU:67:GLU:CG	2.48	0.44
40:BU:56:VAL:CG1	40:BU:57:LEU:N	2.80	0.44
1:AA:21:G:O2'	1:AA:885:G:H8	2.00	0.44
18:B3:907:A:C8	18:B3:1328:A:C2'	2.85	0.44
1:AA:359:U:O2'	1:AA:360:A:H5'	2.17	0.44
15:AO:104:ASN:OD1	15:AO:107:ASP:HB2	2.17	0.44
1:AA:321:A:O2'	1:AA:322:C:H5'	2.17	0.44
18:B3:220:C:O2	41:BV:54:LYS:CE	2.60	0.44
18:B3:375:G:H21	18:B3:410:A:H3'	1.83	0.44
18:B3:521:A:C5'	42:B0:26:HIS:HE2	2.27	0.44
2:AT:722:PRO:O	2:AT:723:LYS:HD2	2.16	0.44
18:B3:140:G:H8	18:B3:140:G:H3'	1.83	0.44
4:AC:33:TYR:CE1	4:AC:35:GLY:N	2.85	0.44
1:AA:644:G:O2'	1:AA:645:C:H5'	2.17	0.44
18:B3:2003:U:HO2'	18:B3:2004:U:H5	1.63	0.44
1:AA:627:G:O2'	1:AA:628:G:H5'	2.17	0.44
18:B3:1928:C:H2'	18:B3:1929:G:O4'	2.17	0.44
1:AA:583:A:H2'	1:AA:584:G:O4'	2.17	0.44
1:AA:988:G:OP2	1:AA:1014:A:N6	2.50	0.44
1:AA:990:C:H6	1:AA:1016:A:C4	2.31	0.44
1:AA:1239:A:C4	1:AA:1298:C:N4	2.86	0.44
13:AM:23:ASP:HB3	13:AM:34:THR:HG21	2.00	0.44
1:AA:1221:G:O3'	17:AS:120:SER:OG	2.35	0.44
18:B3:1694:G:H22	45:BY:5:PRO:CB	1.84	0.44
33:BN:128:THR:HG22	33:BN:129:TYR:N	2.31	0.44
10:AJ:45:ALA:HB1	10:AJ:93:LEU:CD2	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2424:U:O3'	36:BQ:6:GLY:HA3	2.18	0.44
19:B4:49:G:O6	24:BE:158:ARG:NH2	2.25	0.44
24:BE:103:LEU:CD1	24:BE:104:LEU:CD2	2.95	0.44
24:BE:103:LEU:CD2	24:BE:226:TYR:CZ	3.00	0.44
24:BE:41:LYS:CB	24:BE:49:TYR:HD2	2.29	0.44
24:BE:56:THR:HG22	24:BE:57:ASN:O	2.16	0.44
18:B3:1371:U:H4'	33:BN:65:SER:CB	2.32	0.44
33:BN:115:HIS:CD2	33:BN:116:ILE:H	2.35	0.44
33:BN:75:PHE:CZ	33:BN:77:VAL:HG11	2.52	0.44
33:BN:16:ALA:HB3	33:BN:96:ASN:ND2	2.32	0.44
23:BD:205:LEU:HB3	23:BD:224:VAL:HA	1.99	0.44
34:BO:63:SER:CA	34:BO:88:THR:HG22	2.47	0.44
18:B3:891:G:C5'	23:BD:54:LYS:NZ	2.79	0.44
45:BY:32:THR:C	45:BY:38:TYR:HD1	2.20	0.44
18:B3:1167:G:C2	30:BK:110:ILE:HG21	2.49	0.44
18:B3:1847:A:HO2'	21:BB:179:LEU:CA	2.17	0.44
47:B9:22:ARG:HG2	47:B9:23:ARG:C	2.37	0.44
25:BF:82:LEU:HD11	25:BF:188:ILE:CD1	2.46	0.44
25:BF:86:VAL:HA	25:BF:112:SER:O	2.17	0.44
16:AQ:73:THR:O	16:AQ:85:ILE:HA	2.16	0.44
12:AL:142:LYS:HD2	12:AL:143:PRO:CD	2.47	0.44
18:B3:92:G:H5'	44:BX:41:LEU:H	0.70	0.44
18:B3:1006:A:N1	18:B3:2311:A:H1'	2.31	0.44
22:BC:198:PHE:HB3	22:BC:199:GLU:H	1.46	0.44
22:BC:208:PHE:O	22:BC:209:GLU:HB2	2.17	0.44
22:BC:75:VAL:CG2	22:BC:326:CYS:SG	3.06	0.44
22:BC:313:TYR:HE1	22:BC:332:LYS:HB2	1.80	0.44
22:BC:49:LYS:CG	22:BC:333:ARG:H	2.22	0.44
22:BC:304:ILE:CD1	22:BC:358:ILE:CD1	2.95	0.44
22:BC:92:VAL:CG2	22:BC:101:LEU:CD2	2.94	0.44
28:BI:50:VAL:HB	28:BI:139:ARG:NH1	2.32	0.44
28:BI:79:VAL:HG22	28:BI:79:VAL:O	2.16	0.44
26:BG:108:LEU:O	26:BG:117:GLU:HA	2.17	0.44
26:BG:122:GLN:HB3	26:BG:188:LEU:HD12	1.99	0.44
31:BL:62:ARG:HE	31:BL:128:TYR:HD2	1.65	0.44
35:BP:87:ARG:O	35:BP:88:LEU:HG	2.17	0.44
35:BP:91:GLN:CA	35:BP:94:TRP:HE3	2.30	0.44
20:BA:49:PHE:HD1	20:BA:157:PHE:HD1	1.65	0.44
20:BA:98:LYS:HD2	20:BA:99:LEU:HD22	1.99	0.44
18:B3:1676:G:H3'	39:BT:114:ARG:O	2.18	0.44
3:AB:22:HIS:HB3	3:AB:161:CYS:HB3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:136:VAL:HG22	5:AD:141:VAL:HG23	1.99	0.44
12:AL:102:VAL:CG2	12:AL:133:LEU:CD1	2.94	0.44
1:AA:362:G:H5''	12:AL:77:ILE:O	2.17	0.44
41:BV:21:ILE:O	41:BV:21:ILE:HG23	2.17	0.44
18:B3:2561:C:H5'	18:B3:2777:G:H4'	1.99	0.44
18:B3:1243:C:H4'	32:BM:17:ARG:CZ	2.42	0.44
27:BH:128:VAL:CG1	27:BH:132:VAL:CG1	2.95	0.44
27:BH:129:ARG:CD	27:BH:153:ASP:HA	2.47	0.44
27:BH:167:VAL:CG2	27:BH:170:LYS:HE3	2.46	0.44
27:BH:8:GLN:HE21	27:BH:8:GLN:HA	1.81	0.44
32:BM:44:GLY:O	32:BM:45:GLU:HB3	2.16	0.44
1:AA:677:U:O4	11:AK:121:PRO:CB	2.60	0.44
43:BW:16:HIS:CG	43:BW:17:LYS:N	2.85	0.44
43:BW:68:TYR:CG	43:BW:69:ARG:N	2.85	0.44
18:B3:2460:A:C2'	46:BZ:60:LYS:CD	2.89	0.44
46:BZ:76:CYS:O	46:BZ:77:LYS:HB2	2.17	0.44
40:BU:32:SER:HA	40:BU:48:LEU:O	2.16	0.44
1:AA:21:G:C2'	1:AA:885:G:H5'	2.42	0.44
1:AA:239:U:H5''	1:AA:240:C:H1'	1.35	0.44
40:BU:14:LYS:HZ3	40:BU:15:ALA:N	2.16	0.44
1:AA:1341:U:H6	9:AI:141:TYR:CZ	2.35	0.44
11:AK:42:THR:HB	11:AK:53:GLU:HA	1.99	0.44
41:BV:47:TYR:O	41:BV:48:HIS:HB3	2.16	0.44
6:AE:96:ARG:HH21	6:AE:116:THR:HG21	1.83	0.44
24:BE:220:SER:CA	24:BE:223:PHE:CE2	2.94	0.44
7:AG:210:ILE:CD1	7:AG:210:ILE:H	2.30	0.44
7:AG:86:CYS:HB2	7:AG:87:PRO:CD	2.38	0.44
24:BE:61:ILE:CD1	24:BE:79:TYR:CD2	3.00	0.44
18:B3:1212:C:H2'	18:B3:1213:C:C6	2.53	0.44
28:BI:32:ARG:HG2	28:BI:33:ILE:N	2.31	0.44
5:AD:60:LEU:CD2	5:AD:64:GLU:CG	2.95	0.44
1:AA:414:A:OP2	1:AA:428:G:N2	2.45	0.44
6:AE:87:LYS:HG2	6:AE:94:ARG:O	2.17	0.44
18:B3:248:A:H5'	18:B3:249:G:OP2	2.17	0.44
18:B3:294:C:H2'	18:B3:295:C:O4'	2.18	0.44
1:AA:1299:A:H1'	13:AM:27:LYS:HB2	1.04	0.44
13:AM:85:PHE:CB	13:AM:100:THR:HB	2.48	0.44
1:AA:1331:G:H2'	13:AM:40:ARG:HB2	2.00	0.44
13:AM:85:PHE:HA	13:AM:100:THR:N	2.31	0.44
18:B3:1072:G:O2'	18:B3:1073:A:OP2	2.34	0.44
18:B3:541:C:C3'	42:B0:15:LYS:CB	2.85	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:62:ILE:CG2	9:AI:63:ASP:N	2.79	0.44
9:AI:97:ASP:CA	9:AI:103:GLU:N	2.81	0.44
24:BE:64:ILE:HG22	24:BE:105:ILE:HD11	1.99	0.44
24:BE:106:ALA:HA	24:BE:110:LEU:CB	2.48	0.44
24:BE:146:LEU:HD23	24:BE:146:LEU:H	1.82	0.44
24:BE:209:GLU:HA	24:BE:209:GLU:OE1	1.99	0.44
24:BE:107:ARG:CG	24:BE:226:TYR:CE1	2.95	0.44
24:BE:37:VAL:HG21	24:BE:47:PRO:O	2.17	0.44
36:BQ:38:ASP:O	36:BQ:64:VAL:HG12	2.17	0.44
36:BQ:75:ILE:H	36:BQ:91:LEU:HD21	1.78	0.44
36:BQ:72:VAL:CG1	36:BQ:91:LEU:CD1	2.95	0.44
18:B3:518:G:P	18:B3:1339:G:H5'	2.50	0.44
18:B3:35:U:C4'	23:BD:104:THR:HG1	2.28	0.44
18:B3:707:C:H41	34:BO:72:LYS:NZ	2.15	0.44
23:BD:5:VAL:HG13	23:BD:18:ALA:O	2.18	0.44
34:BO:79:LYS:HG2	34:BO:138:LEU:HD13	1.99	0.44
23:BD:59:THR:O	23:BD:60:SER:HB3	2.17	0.44
31:BL:76:LYS:HD3	31:BL:76:LYS:H	1.83	0.44
21:BB:187:LYS:CE	21:BB:187:LYS:HA	2.48	0.44
21:BB:187:LYS:H	21:BB:187:LYS:NZ	2.15	0.44
21:BB:195:TRP:CG	21:BB:196:PRO:CA	2.96	0.44
25:BF:155:ILE:O	25:BF:157:LYS:HD2	2.17	0.44
1:AA:132:C:C2	1:AA:262:A:C2	2.81	0.44
16:AQ:131:SER:HB3	16:AQ:134:VAL:HG12	1.98	0.44
18:B3:2898:G:OP1	22:BC:312:HIS:C	2.55	0.44
18:B3:2821:C:H6	22:BC:103:THR:HG23	1.82	0.44
22:BC:46:LEU:CG	22:BC:47:GLY:H	2.30	0.44
37:BR:45:ARG:O	37:BR:48:ARG:HB3	2.18	0.44
18:B3:2263:G:H4'	31:BL:68:GLY:HA3	2.00	0.44
18:B3:392:U:H5'	31:BL:195:THR:CA	2.47	0.44
26:BG:152:ILE:HD11	26:BG:162:VAL:CG1	2.47	0.44
26:BG:115:VAL:CG1	26:BG:213:LEU:CB	2.92	0.44
31:BL:103:GLU:CG	31:BL:104:ARG:CZ	2.95	0.44
31:BL:114:VAL:CB	31:BL:133:LEU:HD23	2.47	0.44
31:BL:58:PHE:CD1	31:BL:132:ILE:CG2	3.00	0.44
31:BL:146:ARG:NH1	31:BL:146:ARG:HB3	2.32	0.44
31:BL:70:ARG:NH1	31:BL:71:LYS:HG3	2.33	0.44
18:B3:1805:G:H2'	18:B3:2883:A:C6	2.53	0.44
18:B3:2885:A:H2'	18:B3:2886:C:C6	2.52	0.44
18:B3:2334:C:C2	29:BJ:116:ASP:CB	2.93	0.44
18:B3:2347:C:O2	29:BJ:19:ASN:CB	2.59	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2333:G:C3'	29:BJ:114:LYS:HG2	2.47	0.44
18:B3:2165:G:HO2'	20:BA:33:GLU:HB3	1.67	0.44
20:BA:49:PHE:CE2	20:BA:193:LEU:HD11	2.51	0.44
39:BT:80:ILE:HG23	39:BT:123:VAL:O	2.18	0.44
4:AC:10:LEU:HD11	14:AN:32:LYS:HG2	1.99	0.44
14:AN:30:VAL:HG11	14:AN:33:TYR:CD1	2.52	0.44
3:AB:173:TRP:HA	3:AB:176:LEU:HD23	1.99	0.44
5:AD:133:HIS:HD1	5:AD:160:PRO:HG3	1.83	0.44
5:AD:97:LEU:C	5:AD:97:LEU:HD23	2.37	0.44
5:AD:99:LEU:CD1	5:AD:107:ARG:N	2.80	0.44
8:AH:76:PRO:HD2	8:AH:129:TYR:O	2.17	0.44
2:AT:463:LEU:N	2:AT:513:LYS:HZ3	2.01	0.44
18:B3:2596:A:H1'	37:BR:72:LYS:HE3	1.83	0.44
18:B3:2579:G:C5'	18:B3:2680:A:C1'	2.94	0.44
18:B3:2561:C:P	18:B3:2777:G:O2'	2.74	0.44
27:BH:104:VAL:CG1	27:BH:111:PHE:CA	2.93	0.44
27:BH:92:TYR:CD1	27:BH:179:ILE:CG2	2.94	0.44
32:BM:54:HIS:NE2	32:BM:78:ILE:HG13	2.32	0.44
35:BP:16:VAL:CA	35:BP:20:LYS:HE2	2.47	0.44
43:BW:16:HIS:HD1	43:BW:30:ARG:CG	2.30	0.44
1:AA:1497:G:C2'	1:AA:1498:U:C5'	2.89	0.44
40:BU:51:ARG:HG2	40:BU:52:ARG:H	1.82	0.44
18:B3:1327:G:C2	18:B3:1329:A:H3'	2.52	0.44
18:B3:698:A:H5"	41:BV:114:LYS:CA	2.48	0.44
18:B3:698:A:OP1	41:BV:132:LEU:CD1	2.57	0.44
41:BV:108:TYR:CD2	41:BV:109:GLY:N	2.85	0.44
1:AA:690:G:H2'	1:AA:691:G:O4'	2.17	0.44
15:AO:73:ILE:HD13	15:AO:77:ASN:ND2	2.32	0.44
32:BM:5:VAL:CG1	32:BM:6:VAL:H	2.19	0.44
18:B3:1059:G:N7	18:B3:2491:G:C1'	2.79	0.44
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.34	0.44
18:B3:1369:A:H8	18:B3:1369:A:OP1	2.01	0.44
30:BK:22:VAL:CG1	30:BK:23:GLY:H	2.13	0.44
5:AD:54:ARG:CZ	5:AD:54:ARG:CB	2.95	0.44
2:AT:633:ILE:O	2:AT:633:ILE:HG13	2.17	0.44
1:AA:1195:C:H3'	1:AA:1196:U:H5"	1.99	0.44
2:AT:411:VAL:HG11	2:AT:469:LEU:HB3	1.99	0.44
1:AA:165:C:H2'	1:AA:166:G:H8	1.81	0.44
17:AS:74:ALA:HA	17:AS:75:PRO:HD3	1.62	0.44
18:B3:2106:C:H2'	18:B3:2107:U:C6	2.52	0.44
18:B3:419:A:H1'	18:B3:1921:A:C2	2.53	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:75:G:O2'	1:AA:76:C:H5'	2.18	0.44
23:BD:28:PRO:O	23:BD:29:ILE:HB	2.17	0.44
2:AT:84:GLU:HG3	2:AT:85:ASP:N	2.31	0.44
1:AA:1315:U:O4	17:AS:49:MET:CG	2.66	0.44
1:AA:960:U:O2	1:AA:960:U:H2'	2.18	0.44
17:AS:85:ILE:CG2	17:AS:116:LEU:CG	2.95	0.44
1:AA:1180:A:OP1	9:AI:111:TYR:CE1	2.70	0.44
9:AI:58:LYS:NZ	9:AI:62:ILE:HG13	2.33	0.44
19:B4:69:U:H4'	24:BE:14:SER:C	2.37	0.44
24:BE:107:ARG:HB2	24:BE:226:TYR:CE1	2.44	0.44
24:BE:110:LEU:CG	24:BE:171:LEU:CB	2.94	0.44
24:BE:183:TRP:HB2	24:BE:184:ASP:H	1.19	0.44
18:B3:2368:A:O5'	24:BE:31:TYR:CE2	2.70	0.44
36:BQ:97:LYS:O	36:BQ:98:HIS:HB2	2.17	0.44
33:BN:117:GLN:HB3	33:BN:146:GLU:HG3	2.00	0.44
33:BN:139:GLU:HG3	33:BN:140:SER:N	2.32	0.44
42:B0:112:ALA:O	42:B0:117:ILE:HD11	2.18	0.44
18:B3:553:G:O2'	42:B0:69:SER:HA	2.18	0.44
34:BO:107:THR:O	34:BO:108:ALA:HB3	2.18	0.44
34:BO:112:ALA:CA	34:BO:115:VAL:CG2	2.95	0.44
18:B3:721:A:P	34:BO:71:LEU:CG	3.06	0.44
30:BK:113:ALA:CA	30:BK:132:ILE:CD1	2.94	0.44
18:B3:1878:G:O2'	18:B3:1879:U:C6	2.66	0.44
47:B9:43:LYS:O	47:B9:44:LYS:HB2	2.17	0.44
21:BB:223:THR:O	21:BB:223:THR:HG23	2.17	0.44
21:BB:240:ARG:H	21:BB:240:ARG:HE	1.65	0.44
21:BB:242:THR:HG22	21:BB:243:GLY:H	1.79	0.44
18:B3:57:C:O2'	44:BX:35:LYS:HE2	2.17	0.44
18:B3:2709:G:O2'	37:BR:125:LEU:CD2	2.65	0.44
18:B3:2819:C:H2'	18:B3:2820:A:H8	1.81	0.44
22:BC:279:HIS:HB3	22:BC:323:VAL:HG23	2.00	0.44
22:BC:52:MET:SD	22:BC:304:ILE:HG21	2.57	0.44
28:BI:60:LEU:CD1	28:BI:159:PHE:CE1	2.96	0.44
37:BR:78:VAL:CG2	37:BR:81:GLN:HE22	2.22	0.44
18:B3:381:G:O5'	31:BL:119:TRP:HZ3	2.01	0.44
26:BG:151:LEU:CD2	26:BG:185:LEU:HD13	2.48	0.44
31:BL:166:THR:HG1	31:BL:169:LYS:HB2	1.82	0.44
31:BL:46:LYS:C	31:BL:49:ARG:HB3	2.37	0.44
31:BL:51:GLY:O	31:BL:132:ILE:HD13	2.17	0.44
29:BJ:18:LEU:CD1	29:BJ:68:VAL:CG2	2.95	0.44
29:BJ:71:ARG:CG	29:BJ:72:GLY:N	2.78	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1943:C:H5''	21:BB:218:ILE:HG12	1.91	0.44
3:AB:119:LEU:HD21	3:AB:143:ILE:HD13	1.99	0.44
3:AB:122:VAL:CG1	3:AB:132:ILE:HD11	2.40	0.44
5:AD:156:ILE:O	5:AD:156:ILE:HG23	2.17	0.44
37:BR:102:ILE:CD1	37:BR:102:ILE:N	2.81	0.44
37:BR:62:VAL:CG2	37:BR:70:ARG:CA	2.93	0.44
27:BH:105:GLU:O	27:BH:106:LYS:HB3	2.17	0.44
18:B3:2780:C:P	27:BH:162:GLN:HE21	2.40	0.44
27:BH:52:LEU:CG	27:BH:53:ILE:N	2.81	0.44
27:BH:64:HIS:CG	27:BH:65:VAL:N	2.86	0.44
27:BH:92:TYR:HB3	27:BH:179:ILE:HG22	1.99	0.44
27:BH:97:PHE:N	27:BH:97:PHE:CD1	2.85	0.44
32:BM:137:LEU:N	32:BM:137:LEU:HD12	2.33	0.44
32:BM:72:PHE:CD2	32:BM:81:LYS:HB3	2.53	0.44
35:BP:16:VAL:HG21	35:BP:20:LYS:O	2.18	0.44
18:B3:1385:G:C5'	43:BW:49:ARG:O	2.65	0.44
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.83	0.44
40:BU:43:TYR:CG	40:BU:43:TYR:O	2.71	0.44
40:BU:58:VAL:CG1	40:BU:65:GLY:H	2.31	0.44
1:AA:359:U:H6	2:AT:391:LYS:CG	2.29	0.44
1:AA:547:A:H4'	1:AA:548:G:O5'	2.18	0.44
41:BV:82:PRO:HD2	41:BV:120:VAL:HG22	1.99	0.44
18:B3:697:G:P	41:BV:130:SER:HA	2.58	0.44
2:AT:738:GLN:N	2:AT:738:GLN:OE1	2.51	0.44
18:B3:242:A:C2	18:B3:377:C:H2'	2.53	0.44
4:AC:137:VAL:CG2	4:AC:149:MET:CG	2.95	0.44
32:BM:98:LEU:HB3	32:BM:99:GLU:OE2	2.18	0.44
7:AG:161:VAL:HG21	7:AG:169:GLN:OE1	2.17	0.44
35:BP:54:VAL:HG22	35:BP:55:THR:N	2.32	0.44
18:B3:1148:C:C5'	18:B3:1148:C:H6	2.25	0.44
7:AG:200:ALA:CB	7:AG:210:ILE:HD11	2.46	0.44
10:AJ:109:GLU:HA	10:AJ:109:GLU:OE1	2.17	0.44
20:BA:24:LYS:C	20:BA:24:LYS:HD2	2.38	0.44
25:BF:231:ARG:HB3	25:BF:234:PHE:HD1	1.80	0.44
1:AA:397:A:N3	1:AA:397:A:H3'	2.32	0.44
18:B3:141:C:O2	18:B3:141:C:H2'	2.17	0.44
18:B3:2247:C:O2'	18:B3:2248:C:H5'	2.18	0.44
1:AA:451:A:N6	1:AA:480:U:H2'	2.32	0.44
13:AM:117:LYS:CD	13:AM:128:PHE:CE1	2.99	0.44
13:AM:56:LYS:HD3	13:AM:61:LEU:HD23	2.00	0.44
13:AM:62:THR:HB	13:AM:65:GLU:HG3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1319:A:H5''	17:AS:115:TYR:OH	2.14	0.44
24:BE:50:ARG:HD2	24:BE:147:ASP:OD1	2.18	0.44
24:BE:68:THR:HB	24:BE:71:GLY:HA3	2.00	0.44
36:BQ:73:GLY:C	36:BQ:89:LEU:HD22	2.37	0.44
18:B3:1433:G:O2'	18:B3:1434:A:H5'	2.18	0.44
18:B3:1306:U:OP1	23:BD:196:ARG:CZ	2.66	0.44
18:B3:706:G:H22	34:BO:72:LYS:CE	2.28	0.44
23:BD:34:VAL:HA	23:BD:120:ALA:HB1	2.00	0.44
23:BD:130:VAL:HG13	23:BD:131:ALA:N	2.32	0.44
23:BD:185:LYS:HA	23:BD:185:LYS:HZ3	1.83	0.44
34:BO:113:LYS:HZ2	34:BO:116:LYS:HZ2	1.65	0.44
18:B3:771:G:P	31:BL:76:LYS:HG3	2.58	0.44
21:BB:179:LEU:CA	47:B9:20:SER:CA	2.86	0.44
18:B3:1871:U:P	21:BB:192:ARG:CG	3.03	0.44
18:B3:105:G:O2'	18:B3:106:A:H5'	2.18	0.44
18:B3:2846:C:H2'	18:B3:2847:G:H8	1.82	0.44
22:BC:115:ARG:HH11	22:BC:115:ARG:HA	1.79	0.44
22:BC:11:GLY:HA3	22:BC:232:TRP:CB	2.46	0.44
22:BC:156:VAL:HB	22:BC:181:GLN:NE2	2.33	0.44
18:B3:2657:G:H4'	22:BC:20:ARG:HE	1.81	0.44
22:BC:47:GLY:N	22:BC:80:THR:CG2	2.81	0.44
28:BI:46:PHE:CE1	28:BI:139:ARG:NE	2.85	0.44
37:BR:95:PHE:CE2	38:BS:23:ARG:CB	3.01	0.44
22:BC:359:ASP:CA	38:BS:14:TYR:HB2	2.46	0.44
18:B3:392:U:O4'	31:BL:195:THR:CG2	2.64	0.44
26:BG:111:GLU:HB2	26:BG:117:GLU:CG	2.47	0.44
26:BG:130:ALA:CB	26:BG:201:GLU:HG3	2.47	0.44
38:BS:8:PHE:HD1	38:BS:46:PRO:HG2	1.83	0.44
18:B3:924:G:N1	41:BV:41:ARG:HG3	2.28	0.44
18:B3:2334:C:N4	29:BJ:115:TYR:CA	2.74	0.44
20:BA:36:VAL:CG1	20:BA:204:LEU:CD1	2.95	0.44
18:B3:2214:A:H5''	20:BA:83:ASP:HB3	1.99	0.44
4:AC:16:PHE:HB3	4:AC:76:PHE:HZ	1.72	0.44
4:AC:75:ARG:N	4:AC:75:ARG:HD2	2.32	0.44
1:AA:615:C:P	5:AD:107:ARG:HH11	2.37	0.44
5:AD:86:LEU:CD2	5:AD:104:PHE:CD2	2.94	0.44
5:AD:150:LEU:CD1	5:AD:150:LEU:H	2.31	0.44
1:AA:363:A:C3'	12:AL:50:LYS:HG2	2.31	0.44
12:AL:70:LYS:HB2	12:AL:87:VAL:CG2	2.48	0.44
2:AT:140:GLU:H	2:AT:481:MET:HG3	1.75	0.44
37:BR:102:ILE:CD1	37:BR:102:ILE:H	2.30	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1346:A:N6	7:AG:80:ARG:NH1	2.66	0.44
27:BH:134:ILE:CD1	27:BH:146:LEU:CD1	2.94	0.44
32:BM:14:LEU:HB3	32:BM:17:ARG:NE	2.26	0.44
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.50	0.44
43:BW:49:ARG:HB3	43:BW:49:ARG:NH1	2.32	0.44
43:BW:58:ILE:CG2	43:BW:59:TRP:NE1	2.79	0.44
18:B3:2458:U:OP1	46:BZ:83:THR:HB	2.17	0.44
40:BU:37:LYS:CA	40:BU:40:ARG:HD3	2.45	0.44
40:BU:79:ALA:HB1	40:BU:98:ASN:HB3	1.99	0.44
5:AD:26:ALA:HB3	5:AD:70:LEU:HD21	1.96	0.44
41:BV:110:LYS:HB2	41:BV:128:PHE:O	2.18	0.44
41:BV:81:ILE:HG22	41:BV:120:VAL:CG1	2.48	0.44
41:BV:97:THR:HG21	41:BV:124:VAL:HG13	2.00	0.44
40:BU:14:LYS:CA	40:BU:14:LYS:CE	2.95	0.44
18:B3:2319:C:OP1	46:BZ:1:VAL:HG21	2.17	0.44
11:AK:41:VAL:HG23	11:AK:44:GLY:N	2.25	0.44
1:AA:828:A:H5''	1:AA:859:A:C2	2.53	0.44
18:B3:2729:C:O2'	18:B3:2730:G:H5'	2.17	0.44
4:AC:93:ARG:HG2	4:AC:99:ALA:CB	2.47	0.44
20:BA:90:LEU:HD11	20:BA:120:VAL:CA	2.48	0.44
32:BM:25:GLN:NE2	32:BM:26:LEU:HA	2.32	0.44
1:AA:27:G:N2	1:AA:296:U:H4'	2.32	0.44
18:B3:281:U:C2'	18:B3:282:C:O4'	2.60	0.44
8:AH:82:ILE:HD13	8:AH:85:ILE:O	2.16	0.44
18:B3:1587:U:C4	18:B3:1588:G:C6	3.06	0.44
1:AA:735:C:O2'	1:AA:736:C:H5'	2.17	0.44
18:B3:2279:G:C2	18:B3:2463:A:H1'	2.53	0.44
5:AD:152:SER:CB	5:AD:154:LYS:HE3	2.48	0.44
1:AA:1005:A:H2'	1:AA:1006:C:O4'	2.17	0.44
18:B3:1569:U:H3'	18:B3:1570:C:H5'	2.00	0.44
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.52	0.44
18:B3:1901:G:O2'	18:B3:1902:G:H5'	2.18	0.44
18:B3:2419:U:H5''	18:B3:2420:G:H5'	1.99	0.44
18:B3:1643:C:O2'	18:B3:1644:C:H5'	2.18	0.44
18:B3:735:C:C5	18:B3:736:A:C5	3.06	0.44
13:AM:132:ARG:CD	13:AM:145:ARG:CB	2.95	0.44
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.99	0.44
9:AI:101:LYS:N	9:AI:105:LYS:HA	2.33	0.44
19:B4:11:A:N1	24:BE:12:TYR:CB	2.78	0.44
24:BE:116:ASP:HB2	24:BE:142:PHE:HA	1.98	0.44
18:B3:2328:U:O5'	24:BE:153:THR:OG1	2.34	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:184:ASP:O	24:BE:200:PHE:HB3	2.18	0.44
33:BN:27:ASN:HD21	33:BN:27:ASN:HA	1.45	0.44
23:BD:134:VAL:N	23:BD:137:ARG:HH22	2.15	0.44
18:B3:766:A:O2'	18:B3:767:A:H5''	2.18	0.44
18:B3:1850:U:H2'	18:B3:1851:G:H8	1.82	0.44
47:B9:32:GLN:HG3	47:B9:69:THR:N	2.24	0.44
21:BB:138:HIS:CG	21:BB:141:ASP:CB	3.00	0.44
18:B3:1846:U:OP1	21:BB:195:TRP:HZ2	1.99	0.44
21:BB:60:VAL:CG1	21:BB:61:VAL:N	2.81	0.44
25:BF:117:LYS:CE	25:BF:118:VAL:H	2.29	0.44
25:BF:168:ILE:HG13	25:BF:175:TYR:C	2.38	0.44
25:BF:178:LEU:HD13	25:BF:182:ASP:OD2	2.17	0.44
25:BF:85:VAL:HG13	25:BF:85:VAL:O	2.16	0.44
18:B3:954:U:P	36:BQ:13:TYR:HH	2.41	0.44
1:AA:537:G:C3'	12:AL:143:PRO:HD2	2.36	0.44
44:BX:49:LYS:CD	44:BX:50:SER:N	2.80	0.44
18:B3:107:U:C5'	44:BX:58:ILE:C	2.81	0.44
18:B3:107:U:C1'	44:BX:60:GLU:HA	2.47	0.44
18:B3:2312:G:C2'	18:B3:2313:C:H5'	2.48	0.44
18:B3:2861:G:HO2'	22:BC:364:PHE:HE1	1.49	0.44
22:BC:232:TRP:CD2	22:BC:232:TRP:N	2.86	0.44
22:BC:247:LYS:CD	22:BC:247:LYS:H	2.31	0.44
22:BC:48:TYR:CG	22:BC:336:THR:N	2.83	0.44
22:BC:57:ARG:HE	22:BC:353:VAL:HG21	1.83	0.44
22:BC:98:LEU:CD2	22:BC:98:LEU:H	2.30	0.44
28:BI:51:HIS:HB2	28:BI:152:LEU:HD22	1.93	0.44
18:B3:2519:C:H5'	28:BI:158:LYS:HD3	1.89	0.44
28:BI:15:LYS:CB	28:BI:16:PRO:HD3	2.47	0.44
28:BI:38:LYS:HB3	28:BI:38:LYS:HZ3	1.82	0.44
18:B3:2720:C:P	38:BS:17:ARG:HH11	2.02	0.44
26:BG:159:ILE:CG2	26:BG:161:LEU:CG	2.93	0.44
31:BL:63:VAL:CG2	31:BL:105:VAL:CG2	2.95	0.44
31:BL:112:LEU:HD23	31:BL:133:LEU:CD1	2.40	0.44
31:BL:98:ARG:CA	31:BL:129:PHE:CE2	2.94	0.44
31:BL:171:ARG:CZ	31:BL:171:ARG:CB	2.94	0.44
31:BL:43:ARG:CZ	31:BL:43:ARG:H	2.30	0.44
18:B3:1761:U:H2'	18:B3:1762:C:H6	1.82	0.44
18:B3:1805:G:C4	18:B3:2883:A:C6	3.06	0.44
29:BJ:68:VAL:CG1	29:BJ:69:THR:N	2.79	0.44
20:BA:43:PRO:C	20:BA:132:GLY:O	2.56	0.44
20:BA:63:MET:CE	20:BA:160:LYS:NZ	2.81	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:560:U:O2'	1:AA:563:A:O4'	2.34	0.44
3:AB:138:VAL:CG1	3:AB:140:ILE:CG1	2.95	0.44
5:AD:134:ILE:CG2	5:AD:135:ALA:N	2.81	0.44
2:AT:464:LEU:CD2	2:AT:510:ARG:HA	2.47	0.44
2:AT:138:GLN:HB2	18:B3:2697:A:O3'	2.18	0.44
37:BR:31:ALA:CB	37:BR:32:ARG:CZ	2.95	0.44
37:BR:59:MET:HA	37:BR:74:MET:CG	2.36	0.44
9:AI:11:LYS:HA	9:AI:15:ALA:O	2.18	0.44
9:AI:13:LYS:HE3	9:AI:75:SER:CB	2.48	0.44
18:B3:1228:C:OP1	32:BM:47:PHE:CD1	2.70	0.44
27:BH:128:VAL:HG13	27:BH:132:VAL:HG11	2.00	0.44
18:B3:2565:C:N3	27:BH:171:ASP:OD2	2.41	0.44
27:BH:21:LYS:H	27:BH:24:ILE:HD11	1.81	0.44
27:BH:8:GLN:CG	27:BH:72:LYS:CE	2.95	0.44
18:B3:1398:G:H4'	35:BP:25:PRO:CD	2.41	0.44
35:BP:10:ALA:HB1	35:BP:21:VAL:CG2	2.45	0.44
18:B3:1398:G:OP1	35:BP:23:LEU:HB2	2.15	0.44
1:AA:1074:G:O2'	3:AB:102:THR:CG2	2.65	0.44
40:BU:27:ARG:HH21	40:BU:28:ARG:HD3	1.82	0.44
12:AL:62:LYS:HG2	12:AL:63:GLN:N	2.33	0.44
41:BV:121:PRO:O	41:BV:122:VAL:HG22	2.16	0.44
40:BU:14:LYS:CD	40:BU:17:LYS:HD3	2.44	0.44
1:AA:517:G:H5'	1:AA:519:C:C2	2.53	0.44
18:B3:48:A:C2	18:B3:49:A:H1'	1.86	0.44
1:AA:111:G:C2	1:AA:389:A:C5'	2.85	0.44
11:AK:12:VAL:HG23	11:AK:76:THR:OG1	2.18	0.44
16:AQ:93:ILE:HD12	16:AQ:96:TYR:HD2	1.82	0.44
1:AA:243:A:N6	1:AA:281:G:O2'	2.50	0.44
2:AT:68:ILE:HG22	2:AT:69:THR:N	2.33	0.44
32:BM:90:LYS:O	32:BM:95:LYS:HD2	2.18	0.44
32:BM:5:VAL:HG12	32:BM:31:LYS:HB2	1.99	0.44
6:AE:105:ASP:CB	6:AE:142:TYR:CE1	2.93	0.44
18:B3:270:U:O2'	18:B3:271:C:P	2.75	0.44
5:AD:79:ARG:HH21	5:AD:80:LEU:HD23	1.83	0.44
10:AJ:108:ILE:HG13	10:AJ:109:GLU:N	2.33	0.44
2:AT:126:LEU:CD1	2:AT:156:VAL:HG23	2.36	0.44
7:AG:157:GLN:HE21	7:AG:157:GLN:CA	2.29	0.44
42:B0:115:LEU:CD2	42:B0:115:LEU:H	2.30	0.44
2:AT:169:VAL:HG12	2:AT:170:SER:N	2.33	0.44
5:AD:153:GLU:O	5:AD:154:LYS:HE2	2.17	0.44
1:AA:452:A:O2'	1:AA:453:A:O4'	2.34	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:71:C:O2'	19:B4:72:C:H5'	2.17	0.44
18:B3:2076:U:O2'	18:B3:2077:C:OP1	2.35	0.44
18:B3:324:G:O2'	18:B3:325:U:H5'	2.18	0.44
1:AA:409:G:H2'	1:AA:410:G:O4'	2.18	0.44
1:AA:1219:U:C3'	17:AS:78:THR:OG1	2.66	0.44
1:AA:977:A:H2'	1:AA:978:A:C5'	2.45	0.44
18:B3:882:A:H5''	45:BY:1:GLY:C	2.35	0.44
42:B0:44:ARG:CB	42:B0:44:ARG:CZ	2.95	0.44
1:AA:1289:A:H2'	1:AA:1290:G:H5'	1.99	0.44
9:AI:99:GLN:O	9:AI:116:LEU:HB3	2.17	0.44
10:AJ:58:LEU:CG	10:AJ:90:TYR:CD2	2.96	0.44
18:B3:2388:C:O2'	18:B3:2389:U:H5'	2.17	0.44
19:B4:8:G:O6	24:BE:21:ARG:HD2	2.17	0.44
24:BE:47:PRO:CB	24:BE:67:SER:HB3	2.45	0.44
18:B3:1019:C:OP1	36:BQ:79:MET:SD	2.75	0.44
36:BQ:71:SER:C	36:BQ:92:ARG:HH21	2.21	0.44
1:AA:335:C:H2'	1:AA:1434:A:C8	2.44	0.44
33:BN:36:ASN:N	33:BN:38:TRP:CD1	2.84	0.44
33:BN:81:ARG:HG2	33:BN:82:TRP:N	2.32	0.44
42:B0:98:HIS:O	42:B0:99:ASN:HB3	2.18	0.44
23:BD:150:VAL:HA	23:BD:249:TRP:O	2.17	0.44
30:BK:85:LEU:CD2	30:BK:102:GLY:HA3	2.47	0.44
30:BK:53:PHE:HE1	30:BK:86:LYS:CE	2.09	0.44
47:B9:28:LEU:HD22	47:B9:28:LEU:C	2.39	0.44
21:BB:106:VAL:O	21:BB:106:VAL:HG13	2.18	0.44
21:BB:6:ASN:ND2	21:BB:233:LYS:HE3	2.33	0.44
18:B3:1263:C:H5''	25:BF:205:LYS:HD2	1.20	0.44
19:B4:85:A:H5'	25:BF:131:PRO:CG	2.36	0.44
25:BF:147:VAL:CG2	25:BF:148:TYR:N	2.80	0.44
16:AQ:108:VAL:CG1	16:AQ:138:VAL:N	2.81	0.44
12:AL:141:GLU:CG	12:AL:143:PRO:HG2	2.47	0.44
18:B3:107:U:OP2	44:BX:60:GLU:O	2.35	0.44
18:B3:2768:A:C2'	18:B3:2769:C:O4'	2.51	0.44
18:B3:2808:U:H1'	22:BC:15:PHE:N	2.33	0.44
22:BC:185:GLY:H	22:BC:190:LYS:CG	2.30	0.44
22:BC:232:TRP:CZ2	22:BC:264:ALA:HA	2.53	0.44
22:BC:10:HIS:HB2	22:BC:232:TRP:HD1	1.82	0.44
22:BC:228:VAL:CG2	22:BC:246:ARG:HD3	2.46	0.44
22:BC:226:GLU:HB3	22:BC:269:ARG:NE	2.32	0.44
22:BC:26:ALA:CB	22:BC:217:ILE:CG1	2.96	0.44
28:BI:135:ILE:CD1	28:BI:135:ILE:H	2.28	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:145:LYS:O	28:BI:146:ASP:HB3	2.18	0.44
28:BI:50:VAL:CG2	28:BI:137:SER:CB	2.91	0.44
38:BS:23:ARG:HG3	38:BS:28:ILE:CB	2.48	0.44
26:BG:132:LYS:HG3	26:BG:141:LEU:CD2	2.34	0.44
26:BG:135:LEU:HA	26:BG:138:VAL:CG1	2.48	0.44
35:BP:92:VAL:CG2	35:BP:93:VAL:N	2.81	0.44
7:AG:185:ASN:HB2	7:AG:191:GLU:CD	2.38	0.44
18:B3:2338:G:H4'	29:BJ:126:PHE:HB2	1.75	0.44
29:BJ:166:TYR:CD1	29:BJ:167:ASP:CB	3.01	0.44
29:BJ:16:LEU:CD2	29:BJ:70:VAL:CG1	2.93	0.44
10:AJ:70:THR:HG21	14:AN:37:ILE:HG23	1.99	0.44
6:AE:156:LYS:HB3	8:AH:95:ALA:CB	2.41	0.44
37:BR:26:ALA:HA	37:BR:115:THR:CG2	2.48	0.44
7:AG:98:MET:O	7:AG:101:ARG:HG2	2.18	0.44
18:B3:1116:U:O4'	18:B3:1224:G:H2'	2.17	0.44
27:BH:90:MET:CB	27:BH:182:SER:H	2.31	0.44
32:BM:127:ARG:N	32:BM:127:ARG:HD2	2.33	0.44
18:B3:1228:C:C5'	32:BM:47:PHE:CE1	2.97	0.44
11:AK:127:LYS:HD3	11:AK:131:ARG:HD3	1.98	0.44
35:BP:19:ARG:CZ	35:BP:20:LYS:CG	2.95	0.44
43:BW:27:ARG:NH1	43:BW:66:VAL:HG23	2.32	0.44
18:B3:2382:A:C5	46:BZ:10:TYR:HE2	2.32	0.44
46:BZ:27:TYR:CE1	46:BZ:68:VAL:CG2	2.99	0.44
46:BZ:25:THR:HG23	46:BZ:27:TYR:H	1.82	0.44
40:BU:35:LEU:CD1	40:BU:47:ALA:CA	2.94	0.44
1:AA:405:U:H5''	5:AD:37:LYS:CE	2.47	0.44
5:AD:27:GLU:HA	5:AD:34:PHE:HD2	1.83	0.44
1:AA:321:A:H5'	1:AA:1437:C:O4'	2.17	0.44
18:B3:2320:U:C6	46:BZ:3:VAL:HB	2.52	0.44
1:AA:858:G:O2'	1:AA:859:A:H5'	2.18	0.44
20:BA:169:VAL:HG21	20:BA:179:LEU:HD11	2.00	0.44
32:BM:25:GLN:HA	32:BM:28:ASN:HD21	1.80	0.44
32:BM:91:THR:HA	32:BM:95:LYS:HZ2	1.83	0.44
6:AE:107:ASN:OD1	6:AE:143:TRP:N	2.49	0.44
1:AA:562:C:C2	12:AL:32:ARG:CD	2.94	0.44
29:BJ:51:TYR:CD1	29:BJ:58:ILE:O	2.71	0.44
1:AA:1190:G:HO2'	1:AA:1191:A:P	2.41	0.44
34:BO:120:GLU:HA	34:BO:120:GLU:OE1	2.18	0.44
18:B3:140:G:C8	18:B3:140:G:H3'	2.53	0.44
25:BF:190:VAL:CG1	25:BF:191:GLY:N	2.80	0.44
1:AA:533:A:O2'	1:AA:534:U:P	2.76	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1001:A:H2'	1:AA:1002:G:C8	2.53	0.44
19:B4:61:C:H2'	19:B4:62:A:H8	1.83	0.44
18:B3:1535:G:H2'	18:B3:1536:C:C6	2.52	0.44
1:AA:1219:U:OP1	17:AS:58:LYS:NZ	2.50	0.44
13:AM:136:GLN:HB2	13:AM:136:GLN:HE22	1.33	0.44
1:AA:1297:C:C5'	13:AM:54:LEU:C	2.56	0.44
1:AA:958:A:C8	17:AS:101:ALA:CB	3.01	0.44
17:AS:108:ARG:HB3	17:AS:109:PRO:HD2	1.98	0.44
17:AS:124:THR:HB	17:AS:126:VAL:HG22	2.00	0.44
1:AA:1176:A:C4	9:AI:108:PHE:CD2	3.06	0.44
9:AI:50:PRO:HD3	9:AI:115:LEU:HD13	2.00	0.44
9:AI:115:LEU:HA	9:AI:115:LEU:HD23	1.91	0.44
9:AI:100:SER:C	9:AI:116:LEU:HD22	2.39	0.44
9:AI:42:ILE:HD12	9:AI:45:PHE:HB2	1.92	0.44
1:AA:1249:C:H2'	9:AI:71:GLY:O	2.17	0.44
24:BE:106:ALA:HB2	24:BE:110:LEU:HD22	1.95	0.44
24:BE:144:VAL:CG2	24:BE:171:LEU:CD2	2.95	0.44
19:B4:13:A:O3'	24:BE:20:PHE:CZ	2.71	0.44
24:BE:63:GLN:HG3	24:BE:74:VAL:CG2	2.46	0.44
24:BE:80:SER:CA	24:BE:101:THR:HG21	2.48	0.44
33:BN:141:SER:HA	33:BN:142:PRO:HD2	1.84	0.44
18:B3:27:U:H5'	18:B3:1320:U:OP2	2.18	0.44
23:BD:172:GLY:O	23:BD:174:HIS:HD2	2.01	0.44
23:BD:151:VAL:CG2	23:BD:248:ILE:CG1	2.95	0.44
45:BY:21:CYS:CB	45:BY:38:TYR:HH	2.31	0.44
30:BK:84:ALA:C	30:BK:104:ILE:HD13	2.38	0.44
18:B3:1847:A:H1'	47:B9:20:SER:OG	2.18	0.44
47:B9:55:THR:HG23	47:B9:63:VAL:N	2.33	0.44
21:BB:43:ILE:HG13	21:BB:61:VAL:HB	2.00	0.44
21:BB:51:SER:N	21:BB:53:ARG:CZ	2.81	0.44
21:BB:62:PHE:HD2	21:BB:64:ASP:O	2.01	0.44
25:BF:179:SER:C	25:BF:183:LEU:HD11	2.38	0.44
16:AQ:85:ILE:HD13	16:AQ:108:VAL:HG21	1.99	0.44
44:BX:41:LEU:HD11	44:BX:43:LYS:CE	2.39	0.44
18:B3:108:U:C5	44:BX:60:GLU:O	2.70	0.44
18:B3:2713:G:OP1	37:BR:44:SER:C	2.56	0.44
18:B3:2765:C:H2'	18:B3:2766:A:H8	1.82	0.44
22:BC:40:VAL:CG1	22:BC:43:THR:CA	2.92	0.44
22:BC:52:MET:CG	22:BC:53:THR:N	2.81	0.44
28:BI:30:LYS:O	28:BI:30:LYS:HG3	2.17	0.44
28:BI:51:HIS:CB	28:BI:152:LEU:CD2	2.95	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:91:VAL:HG22	28:BI:92:HIS:O	2.18	0.44
37:BR:94:TYR:CD1	37:BR:94:TYR:O	2.71	0.44
38:BS:22:VAL:HG13	38:BS:22:VAL:O	2.18	0.44
31:BL:99:ALA:HA	31:BL:168:LYS:HD3	1.95	0.44
35:BP:101:LEU:N	35:BP:101:LEU:HD22	2.33	0.44
18:B3:898:G:H5''	41:BV:25:ARG:CZ	2.48	0.44
18:B3:2165:G:N7	20:BA:60:ARG:HD2	2.32	0.44
20:BA:19:TYR:CD2	20:BA:214:PHE:CE1	3.06	0.44
20:BA:58:CYS:SG	20:BA:59:PRO:N	2.91	0.44
18:B3:1508:C:H5''	39:BT:78:GLY:CA	2.43	0.44
14:AN:22:VAL:CG1	14:AN:23:CYS:H	2.29	0.44
3:AB:52:THR:HG21	3:AB:161:CYS:HG	1.81	0.44
1:AA:403:C:H3'	5:AD:126:ARG:HD2	1.01	0.44
5:AD:100:LYS:HE3	5:AD:173:ALA:HB2	2.00	0.44
5:AD:190:GLU:H	5:AD:190:GLU:CD	2.21	0.44
6:AE:221:TYR:N	8:AH:99:GLY:HA2	2.31	0.44
1:AA:173:U:O4	1:AA:381:C:N4	2.51	0.44
2:AT:515:ASP:OD2	2:AT:537:HIS:HE1	2.01	0.44
18:B3:164:G:C2'	41:BV:31:ARG:HB2	2.48	0.44
27:BH:164:ILE:C	27:BH:164:ILE:HD12	2.39	0.44
32:BM:58:ARG:CD	32:BM:60:ALA:N	2.81	0.44
35:BP:23:LEU:HD23	35:BP:24:ASP:N	2.30	0.44
35:BP:37:ARG:N	35:BP:37:ARG:CD	2.81	0.44
43:BW:59:TRP:HH2	43:BW:66:VAL:CG2	2.29	0.44
41:BV:10:HIS:CG	41:BV:11:ARG:N	2.86	0.44
1:AA:359:U:C6	2:AT:391:LYS:CG	2.95	0.44
1:AA:1399:C:C2	1:AA:1502:A:N6	2.86	0.44
1:AA:389:A:H2'	1:AA:390:C:C5'	2.48	0.44
18:B3:269:G:H5''	18:B3:274:G:O2'	2.16	0.44
11:AK:42:THR:CG2	11:AK:52:ASP:CB	2.94	0.44
15:AO:74:LEU:HG	15:AO:89:TYR:OH	2.18	0.44
32:BM:4:PRO:CA	32:BM:32:ILE:HG12	2.36	0.44
18:B3:364:C:H2'	18:B3:365:G:O4'	2.18	0.44
4:AC:43:THR:HB	4:AC:81:GLY:CA	2.48	0.44
7:AG:91:ARG:HG2	7:AG:92:LEU:HD12	2.00	0.44
1:AA:976:G:C8	1:AA:1358:U:O2	2.71	0.44
2:AT:647:ILE:N	2:AT:647:ILE:HD12	2.33	0.44
18:B3:2859:C:O2'	18:B3:2860:G:H5'	2.18	0.44
18:B3:2372:A:H2'	18:B3:2373:U:H6	1.83	0.44
18:B3:1930:A:H2'	18:B3:1931:A:C8	2.52	0.44
18:B3:305:A:C5	18:B3:329:A:C2	3.05	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:83:MET:CE	17:AS:116:LEU:CD1	2.95	0.43
1:AA:1317:C:H2'	17:AS:54:ALA:HA	2.00	0.43
1:AA:1176:A:H3'	9:AI:108:PHE:N	2.32	0.43
9:AI:54:VAL:CG1	9:AI:88:LEU:CD2	2.94	0.43
24:BE:144:VAL:HG23	24:BE:171:LEU:CD1	2.47	0.43
24:BE:41:LYS:HZ2	24:BE:143:LYS:HD2	1.82	0.43
24:BE:95:TRP:C	24:BE:99:TYR:HE2	2.20	0.43
36:BQ:72:VAL:CG1	36:BQ:74:VAL:CG2	2.95	0.43
36:BQ:79:MET:CE	36:BQ:82:ASN:HA	2.47	0.43
18:B3:2051:G:H5'	33:BN:85:LYS:HD2	1.44	0.43
33:BN:84:ALA:HB1	33:BN:85:LYS:HZ1	1.82	0.43
33:BN:8:THR:HG23	33:BN:10:PRO:HD3	2.00	0.43
18:B3:1315:G:H4'	18:B3:1316:G:OP2	2.17	0.43
18:B3:1304:U:H2'	23:BD:194:ARG:HD2	2.00	0.43
45:BY:25:SER:CB	45:BY:35:SER:HB2	2.48	0.43
45:BY:33:CYS:N	45:BY:38:TYR:CE1	2.85	0.43
18:B3:2124:G:O2'	21:BB:229:VAL:CG1	2.62	0.43
47:B9:52:GLY:HA2	47:B9:54:TRP:CH2	2.50	0.43
21:BB:113:SER:CA	21:BB:164:VAL:HG22	2.48	0.43
21:BB:62:PHE:CB	21:BB:66:TYR:CD1	2.93	0.43
25:BF:82:LEU:HD12	25:BF:188:ILE:O	2.17	0.43
16:AQ:87:ARG:HD3	16:AQ:87:ARG:C	2.37	0.43
44:BX:25:LYS:HE2	44:BX:25:LYS:HB2	1.71	0.43
44:BX:48:ARG:NH1	44:BX:49:LYS:HA	2.33	0.43
44:BX:48:ARG:CD	44:BX:49:LYS:N	2.81	0.43
18:B3:1002:G:O2'	28:BI:90:ARG:NH1	2.42	0.43
18:B3:2806:C:OP1	22:BC:342:TYR:CD2	2.71	0.43
22:BC:121:TRP:CD1	22:BC:122:TYR:CD2	3.05	0.43
18:B3:2846:C:OP1	22:BC:176:HIS:CG	2.71	0.43
22:BC:182:LEU:N	22:BC:182:LEU:HD13	2.33	0.43
22:BC:19:LYS:O	22:BC:271:TYR:CZ	2.71	0.43
18:B3:1734:C:C5'	22:BC:245:LEU:HB3	2.44	0.43
28:BI:139:ARG:N	28:BI:139:ARG:CD	2.81	0.43
37:BR:89:ASP:HB3	37:BR:90:GLY:H	1.63	0.43
37:BR:92:PHE:CD1	38:BS:20:LEU:HG	2.45	0.43
26:BG:105:LYS:CB	26:BG:108:LEU:HD23	2.44	0.43
26:BG:105:LYS:H	26:BG:108:LEU:HD23	1.82	0.43
26:BG:127:LYS:CB	26:BG:128:PRO:HD3	2.37	0.43
26:BG:211:ALA:HA	26:BG:214:VAL:HG22	1.98	0.43
18:B3:392:U:H5'	31:BL:195:THR:HA	2.00	0.43
31:BL:25:ARG:HD2	31:BL:26:VAL:N	2.29	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1469:C:C3'	31:BL:71:LYS:NZ	2.79	0.43
35:BP:101:LEU:HD11	35:BP:134:LYS:HA	2.00	0.43
18:B3:2350:G:P	29:BJ:139:ARG:HD3	2.55	0.43
29:BJ:40:SER:O	29:BJ:74:LYS:HD2	2.18	0.43
29:BJ:66:VAL:O	29:BJ:67:HIS:HB3	2.18	0.43
39:BT:107:LEU:O	39:BT:107:LEU:HD23	2.17	0.43
1:AA:640:A:O2'	1:AA:641:U:H5'	2.18	0.43
1:AA:619:U:O4'	5:AD:132:ARG:HA	2.17	0.43
8:AH:17:GLU:HG3	8:AH:18:LYS:N	2.32	0.43
1:AA:66:G:H4'	1:AA:173:U:O2	1.71	0.43
18:B3:2576:A:C2	18:B3:2800:A:N6	2.73	0.43
18:B3:1120:U:H6	18:B3:1120:U:H5''	1.82	0.43
27:BH:18:VAL:O	27:BH:19:SER:HB3	2.17	0.43
27:BH:26:LYS:CD	27:BH:26:LYS:N	2.82	0.43
18:B3:1398:G:C4'	35:BP:25:PRO:CD	2.95	0.43
35:BP:31:ILE:O	35:BP:32:ALA:HB2	2.18	0.43
35:BP:22:TRP:NE1	35:BP:49:ILE:CD1	2.78	0.43
35:BP:22:TRP:HE3	35:BP:51:LYS:N	2.16	0.43
18:B3:343:C:O2'	18:B3:344:C:H5'	2.18	0.43
18:B3:80:A:H5'	40:BU:74:TYR:CE1	2.52	0.43
40:BU:48:LEU:HD11	40:BU:109:LEU:HD12	1.97	0.43
1:AA:1502:A:H2	1:AA:1505:G:C2	2.36	0.43
1:AA:118:U:O3'	1:AA:122:G:C8	2.71	0.43
18:B3:194:A:H4'	31:BL:178:LYS:N	2.32	0.43
45:BY:37:GLY:O	45:BY:44:ARG:HG3	2.18	0.43
18:B3:1882:C:P	21:BB:200:GLY:CA	3.02	0.43
32:BM:25:GLN:HE21	32:BM:30:GLN:HB2	1.83	0.43
30:BK:44:GLU:HA	30:BK:44:GLU:OE1	2.17	0.43
24:BE:87:GLY:HA3	24:BE:222:LEU:CD2	2.44	0.43
24:BE:54:ARG:HB2	24:BE:61:ILE:HG23	1.92	0.43
1:AA:197:A:H1'	1:AA:198:G:O4'	2.17	0.43
1:AA:1158:C:N3	1:AA:1181:G:N2	2.64	0.43
18:B3:212:A:O4'	18:B3:214:U:C6	2.71	0.43
13:AM:129:TRP:HH2	17:AS:121:ILE:HD13	1.57	0.43
1:AA:1322:C:OP1	17:AS:122:THR:HB	2.18	0.43
1:AA:985:C:C2	17:AS:97:TYR:HE1	2.35	0.43
42:B0:16:LYS:HB2	42:B0:18:LYS:HE2	1.99	0.43
9:AI:18:VAL:HG22	9:AI:67:ARG:CB	2.41	0.43
9:AI:7:GLN:HG2	9:AI:8:THR:N	2.33	0.43
24:BE:34:LYS:HG3	36:BQ:27:LEU:HD11	1.21	0.43
33:BN:25:PHE:CE1	33:BN:143:SER:HB2	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2049:C:OP1	33:BN:81:ARG:CB	2.66	0.43
18:B3:1344:G:C8	23:BD:188:ALA:O	2.71	0.43
18:B3:1352:A:OP2	23:BD:108:TRP:CD1	2.62	0.43
23:BD:125:ILE:CD1	23:BD:255:THR:CG2	2.95	0.43
18:B3:675:U:C2'	23:BD:235:LEU:HD23	2.41	0.43
23:BD:149:LEU:CD2	23:BD:248:ILE:HB	2.36	0.43
34:BO:59:ARG:HD2	34:BO:60:PRO:CD	2.48	0.43
18:B3:771:G:OP1	31:BL:76:LYS:HD3	2.16	0.43
45:BY:25:SER:HB2	45:BY:33:CYS:O	2.19	0.43
18:B3:1183:C:H1'	30:BK:104:ILE:HA	1.98	0.43
18:B3:1874:U:C5'	21:BB:127:ARG:HG2	2.46	0.43
18:B3:858:U:H2'	18:B3:859:C:C6	2.53	0.43
21:BB:122:ARG:HE	21:BB:123:GLY:N	2.14	0.43
18:B3:820:G:C6	21:BB:181:ALA:HB3	2.51	0.43
21:BB:61:VAL:CG2	21:BB:62:PHE:CD1	2.94	0.43
25:BF:180:ILE:CD1	25:BF:181:ASP:N	2.81	0.43
25:BF:206:LEU:CD1	25:BF:242:MET:CB	2.94	0.43
44:BX:54:VAL:CG1	44:BX:55:LEU:N	2.81	0.43
18:B3:1054:G:N7	28:BI:110:ARG:CD	2.78	0.43
18:B3:1132:A:H61	18:B3:2500:C:H1'	1.82	0.43
18:B3:2820:A:C4'	22:BC:89:VAL:HA	2.48	0.43
18:B3:2846:C:C4'	22:BC:174:LYS:CE	2.82	0.43
22:BC:201:THR:CG2	22:BC:202:VAL:N	2.81	0.43
28:BI:94:PHE:O	28:BI:94:PHE:CG	2.68	0.43
37:BR:85:TRP:CE3	37:BR:86:ARG:CD	2.94	0.43
26:BG:159:ILE:HG22	26:BG:161:LEU:CB	2.47	0.43
31:BL:156:LYS:CG	31:BL:157:HIS:N	2.81	0.43
31:BL:29:TYR:CE1	31:BL:62:ARG:CD	3.02	0.43
18:B3:1815:A:H5''	18:B3:2750:G:H2'	1.32	0.43
18:B3:2890:A:C2'	18:B3:2891:A:OP2	2.65	0.43
18:B3:2736:U:H2'	35:BP:61:ARG:HG2	1.77	0.43
18:B3:898:G:H1	41:BV:42:ILE:HG12	1.81	0.43
18:B3:2333:G:C2'	29:BJ:114:LYS:CG	2.84	0.43
20:BA:54:LYS:HG3	20:BA:156:LYS:CD	2.40	0.43
20:BA:60:ARG:HD3	20:BA:61:PRO:CG	2.47	0.43
14:AN:27:THR:CG2	14:AN:38:CYS:SG	3.06	0.43
1:AA:619:U:H6	5:AD:142:ASN:HD22	1.66	0.43
1:AA:875:C:C2'	8:AH:11:ASN:HD21	2.26	0.43
1:AA:45:U:H2'	1:AA:46:G:C8	2.53	0.43
12:AL:117:ILE:HD12	12:AL:120:VAL:HG11	1.99	0.43
12:AL:93:LEU:H	12:AL:93:LEU:CD2	2.29	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:465:LYS:CE	2:AT:511:LEU:HG	2.24	0.43
27:BH:20:ILE:CD1	27:BH:25:VAL:CA	2.95	0.43
27:BH:63:LYS:NZ	32:BM:130:PRO:HB3	2.10	0.43
32:BM:51:LEU:O	32:BM:52:LYS:HG2	2.18	0.43
32:BM:79:PHE:CD2	32:BM:79:PHE:O	2.71	0.43
35:BP:19:ARG:CZ	35:BP:20:LYS:HG2	2.49	0.43
43:BW:48:VAL:HG12	43:BW:50:LEU:HD23	2.00	0.43
40:BU:37:LYS:C	40:BU:37:LYS:HD2	2.37	0.43
1:AA:865:A:H2'	1:AA:866:C:C6	2.53	0.43
41:BV:125:LYS:HA	41:BV:145:GLU:HB3	1.94	0.43
1:AA:754:C:C4'	15:AO:127:TYR:CE1	2.85	0.43
20:BA:68:PHE:CE2	20:BA:116:LEU:CD1	2.95	0.43
32:BM:2:VAL:CG1	32:BM:32:ILE:CD1	2.96	0.43
33:BN:127:ARG:H	33:BN:138:TYR:N	1.89	0.43
24:BE:88:ILE:CG2	24:BE:219:PHE:CE2	2.93	0.43
24:BE:88:ILE:CG1	24:BE:89:THR:N	2.81	0.43
4:AC:28:LEU:HD22	4:AC:28:LEU:N	2.33	0.43
29:BJ:52:THR:HA	29:BJ:58:ILE:HG22	2.01	0.43
16:AQ:77:THR:HA	16:AQ:83:ILE:HD12	2.00	0.43
13:AM:68:ARG:HH11	13:AM:68:ARG:HB3	1.82	0.43
1:AA:662:G:H2'	1:AA:663:A:H8	1.78	0.43
18:B3:2157:G:O3'	18:B3:2158:A:O4'	2.36	0.43
18:B3:737:A:O2'	18:B3:738:G:H5'	2.18	0.43
18:B3:2511:A:C8	18:B3:2511:A:H5'	2.53	0.43
18:B3:1768:C:H2'	18:B3:1769:C:O4'	2.18	0.43
18:B3:1594:C:O2'	18:B3:1595:G:H5'	2.19	0.43
3:AB:50:GLY:O	3:AB:54:GLU:HG3	2.18	0.43
1:AA:962:C:H2'	1:AA:963:G:O4'	2.18	0.43
1:AA:1302:U:O5'	13:AM:54:LEU:HG	2.15	0.43
1:AA:1304:G:O6	13:AM:40:ARG:CG	2.65	0.43
1:AA:1238:A:OP1	1:AA:1336:C:H5	2.00	0.43
13:AM:100:THR:O	13:AM:105:VAL:HG21	2.19	0.43
42:B0:19:ARG:CG	42:B0:33:ARG:H	2.16	0.43
1:AA:1129:C:H4'	1:AA:1130:A:H5'	2.01	0.43
1:AA:1291:G:C8	9:AI:41:GLU:OE2	2.71	0.43
9:AI:101:LYS:C	9:AI:105:LYS:CB	2.81	0.43
18:B3:2330:U:H4'	18:B3:2331:C:OP1	2.19	0.43
24:BE:111:GLN:CA	24:BE:115:LEU:HB2	2.49	0.43
24:BE:184:ASP:N	24:BE:187:THR:CG2	2.81	0.43
24:BE:22:ARG:HH12	24:BE:24:ARG:NH2	2.15	0.43
33:BN:25:PHE:HE2	33:BN:118:VAL:HG23	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:85:LYS:N	33:BN:85:LYS:CE	2.82	0.43
18:B3:28:G:C5	18:B3:1318:A:H2	1.82	0.43
23:BD:180:VAL:CG1	23:BD:181:LEU:N	2.81	0.43
23:BD:4:GLN:HG2	23:BD:19:LEU:HD13	2.00	0.43
23:BD:133:LEU:CD2	23:BD:243:LEU:HB2	2.48	0.43
18:B3:751:U:H5''	23:BD:36:THR:CG2	2.46	0.43
18:B3:1349:G:H4'	23:BD:42:ASN:N	2.34	0.43
30:BK:84:ALA:CB	30:BK:104:ILE:CD1	2.94	0.43
18:B3:1899:C:H1'	21:BB:223:THR:HG1	1.78	0.43
47:B9:30:ILE:CG2	47:B9:31:GLN:N	2.81	0.43
47:B9:56:CYS:HB3	47:B9:59:CYS:O	2.18	0.43
47:B9:55:THR:CG2	47:B9:63:VAL:N	2.81	0.43
21:BB:110:THR:O	21:BB:110:THR:HG23	2.19	0.43
21:BB:157:ILE:CD1	21:BB:161:ALA:CB	2.97	0.43
21:BB:187:LYS:CA	21:BB:187:LYS:HZ3	2.22	0.43
21:BB:236:LEU:HD22	21:BB:242:THR:OG1	2.18	0.43
25:BF:146:LEU:HG	25:BF:149:LYS:CE	2.45	0.43
18:B3:2093:G:H1	22:BC:257:ALA:HB1	1.84	0.43
18:B3:2822:C:H4'	22:BC:133:SER:OG	2.18	0.43
22:BC:17:PRO:HG2	22:BC:19:LYS:CD	2.48	0.43
22:BC:156:VAL:HG11	22:BC:181:GLN:HE22	1.83	0.43
22:BC:52:MET:CB	22:BC:76:THR:CA	2.92	0.43
28:BI:15:LYS:CB	28:BI:16:PRO:CD	2.96	0.43
26:BG:115:VAL:HG23	26:BG:214:VAL:HG13	1.99	0.43
31:BL:48:ARG:NH2	31:BL:52:TYR:CE1	2.86	0.43
38:BS:49:ILE:HG12	38:BS:49:ILE:O	2.17	0.43
18:B3:2347:C:C5	29:BJ:66:VAL:CG2	3.01	0.43
29:BJ:59:ARG:CB	29:BJ:59:ARG:CZ	2.95	0.43
29:BJ:44:PRO:CB	29:BJ:67:HIS:HB2	2.46	0.43
39:BT:66:ILE:HD13	39:BT:66:ILE:C	2.37	0.43
1:AA:616:G:H5'	5:AD:149:ARG:HH21	1.82	0.43
1:AA:860:A:H4'	8:AH:18:LYS:HZ2	1.84	0.43
5:AD:171:ARG:HG2	5:AD:172:VAL:H	1.83	0.43
8:AH:16:ALA:HB1	8:AH:24:VAL:CG2	2.49	0.43
1:AA:363:A:O3'	12:AL:50:LYS:CB	2.63	0.43
1:AA:65:U:C2'	1:AA:383:A:N1	2.81	0.43
2:AT:462:PHE:C	2:AT:513:LYS:NZ	2.71	0.43
32:BM:17:ARG:CB	32:BM:121:GLN:HE21	2.31	0.43
32:BM:17:ARG:O	32:BM:21:VAL:HG23	2.19	0.43
1:AA:920:U:H5''	1:AA:1080:A:C5	2.49	0.43
1:AA:1068:G:C5'	1:AA:1388:C:C5'	2.96	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1398:G:OP1	35:BP:22:TRP:C	2.57	0.43
1:AA:1075:C:OP1	3:AB:103:PRO:N	2.51	0.43
40:BU:101:PRO:HA	40:BU:104:LEU:CD2	2.39	0.43
40:BU:28:ARG:CG	40:BU:29:VAL:N	2.81	0.43
40:BU:46:LYS:NZ	40:BU:47:ALA:HB3	2.32	0.43
1:AA:294:U:H5'	1:AA:610:G:O2'	2.17	0.43
41:BV:86:ARG:HG2	41:BV:87:ASP:H	1.80	0.43
1:AA:529:G:C6	12:AL:69:ARG:NH2	2.86	0.43
46:BZ:37:GLN:HA	46:BZ:40:ARG:CD	2.48	0.43
2:AT:744:TYR:CE2	18:B3:1171:A:H2	2.24	0.43
18:B3:1774:G:H1'	47:B9:15:VAL:HG22	2.00	0.43
11:AK:47:VAL:HG12	11:AK:52:ASP:CB	2.49	0.43
22:BC:143:ILE:CG2	22:BC:147:LEU:CD1	2.95	0.43
22:BC:146:GLU:CG	22:BC:147:LEU:HD12	2.28	0.43
39:BT:96:LYS:CE	39:BT:96:LYS:HA	2.38	0.43
36:BQ:39:ILE:CG1	36:BQ:99:SER:CB	2.94	0.43
13:AM:68:ARG:NH1	13:AM:68:ARG:HB3	2.32	0.43
2:AT:292:LYS:HD3	2:AT:295:GLU:CD	2.39	0.43
34:BO:114:ILE:CG2	34:BO:121:CYS:SG	3.07	0.43
18:B3:1887:U:H2'	18:B3:1888:C:H6	1.83	0.43
18:B3:1902:G:H2'	18:B3:1903:U:O4'	2.18	0.43
18:B3:956:G:H2'	18:B3:957:A:O4'	2.17	0.43
1:AA:157:G:O2'	1:AA:158:G:H5'	2.18	0.43
1:AA:652:U:H2'	1:AA:752:G:N1	2.32	0.43
18:B3:1823:G:O2'	18:B3:1824:C:H5'	2.18	0.43
1:AA:1226:C:P	13:AM:131:LEU:HD21	2.59	0.43
1:AA:1302:U:C5	13:AM:52:VAL:O	2.71	0.43
13:AM:120:ARG:N	13:AM:120:ARG:HD2	2.33	0.43
1:AA:959:A:C5	17:AS:100:LYS:HB3	2.52	0.43
1:AA:1220:G:P	17:AS:80:MET:HE2	2.59	0.43
1:AA:1180:A:OP1	9:AI:111:TYR:CD1	2.72	0.43
1:AA:1279:A:O2'	1:AA:1281:U:OP2	2.34	0.43
9:AI:81:ARG:CD	9:AI:115:LEU:CD2	2.95	0.43
10:AJ:26:LEU:HD22	10:AJ:38:SER:CB	2.48	0.43
24:BE:110:LEU:N	24:BE:110:LEU:HD12	2.33	0.43
19:B4:11:A:O5'	24:BE:17:GLN:HA	2.18	0.43
24:BE:204:VAL:CG1	24:BE:205:SER:N	2.81	0.43
24:BE:64:ILE:O	24:BE:75:LEU:HD23	2.19	0.43
24:BE:83:LEU:N	24:BE:83:LEU:CD2	2.82	0.43
36:BQ:34:TYR:OH	36:BQ:93:VAL:HA	2.19	0.43
18:B3:502:A:H5'	33:BN:14:ALA:HA	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:39:GLU:HA	33:BN:112:TYR:CD1	2.53	0.43
18:B3:2050:G:N7	33:BN:82:TRP:HZ3	1.99	0.43
42:B0:72:LYS:CD	42:B0:90:LYS:CE	2.96	0.43
23:BD:174:HIS:CA	23:BD:177:LEU:HD13	2.49	0.43
18:B3:1304:U:H4'	23:BD:193:TYR:CE2	2.54	0.43
23:BD:227:ALA:HB1	23:BD:232:LEU:HD13	1.99	0.43
34:BO:82:VAL:CG2	34:BO:124:LEU:HD13	2.49	0.43
34:BO:81:VAL:HG12	34:BO:138:LEU:CD1	2.47	0.43
23:BD:76:VAL:HG12	23:BD:77:GLY:N	2.33	0.43
31:BL:75:PRO:HB3	31:BL:76:LYS:NZ	2.32	0.43
18:B3:170:U:H4'	31:BL:82:LYS:HD3	1.99	0.43
45:BY:16:THR:CG2	45:BY:17:LEU:N	2.81	0.43
21:BB:170:GLY:HA2	47:B9:67:ALA:H	1.84	0.43
21:BB:111:ILE:CG2	21:BB:167:VAL:H	2.31	0.43
21:BB:224:ILE:CD1	21:BB:225:SER:N	2.81	0.43
18:B3:1085:C:H5''	25:BF:89:LYS:HZ3	1.78	0.43
25:BF:162:LEU:HD22	25:BF:162:LEU:O	2.18	0.43
25:BF:177:ILE:CD1	25:BF:178:LEU:N	2.82	0.43
1:AA:129:U:H4'	16:AQ:127:CYS:N	2.32	0.43
18:B3:485:A:H1'	18:B3:486:A:H5'	2.00	0.43
44:BX:21:LEU:O	44:BX:21:LEU:HG	2.18	0.43
44:BX:29:ALA:O	44:BX:32:LYS:HB3	2.18	0.43
18:B3:1060:C:H2'	18:B3:1061:C:C6	2.52	0.43
18:B3:2283:G:C6	28:BI:106:ALA:N	2.85	0.43
22:BC:18:ARG:NH1	22:BC:19:LYS:H	2.16	0.43
18:B3:1733:A:C5'	22:BC:225:PHE:O	2.66	0.43
22:BC:274:ARG:N	22:BC:274:ARG:CD	2.82	0.43
22:BC:52:MET:CG	22:BC:53:THR:H	2.30	0.43
22:BC:57:ARG:CZ	22:BC:282:TYR:CE1	3.02	0.43
37:BR:77:ILE:CG2	37:BR:126:TRP:CZ3	3.01	0.43
37:BR:81:GLN:CA	37:BR:81:GLN:HE21	2.20	0.43
22:BC:362:SER:N	38:BS:14:TYR:OH	2.50	0.43
18:B3:2133:U:H5''	18:B3:2134:G:H5'	1.97	0.43
26:BG:134:GLY:C	26:BG:197:ALA:HB1	2.39	0.43
26:BG:149:LEU:HD12	26:BG:214:VAL:CG1	2.48	0.43
31:BL:65:VAL:HG22	31:BL:127:LYS:O	2.18	0.43
31:BL:173:ILE:O	31:BL:174:ASN:HB3	2.18	0.43
31:BL:29:TYR:O	31:BL:32:LYS:HB3	2.18	0.43
31:BL:66:ARG:HA	31:BL:126:TYR:CE2	2.52	0.43
18:B3:1705:C:C3'	35:BP:62:THR:HB	2.25	0.43
35:BP:90:SER:O	35:BP:91:GLN:HB2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2338:G:C5'	29:BJ:126:PHE:HB2	2.47	0.43
29:BJ:16:LEU:CD2	29:BJ:75:ALA:CB	2.94	0.43
18:B3:2164:G:N3	20:BA:35:GLN:OE1	2.52	0.43
18:B3:2214:A:O4'	20:BA:103:LEU:HD12	2.18	0.43
20:BA:148:VAL:O	20:BA:151:VAL:HG22	2.18	0.43
18:B3:1446:U:OP1	39:BT:69:GLU:OE1	2.37	0.43
14:AN:36:ASN:HB3	14:AN:41:CYS:HB2	2.01	0.43
3:AB:22:HIS:NE2	3:AB:172:ILE:CD1	2.81	0.43
12:AL:59:ILE:HD12	12:AL:117:ILE:HB	2.01	0.43
37:BR:27:ASP:OD2	37:BR:115:THR:HB	2.18	0.43
18:B3:1116:U:OP2	18:B3:1139:U:O2	2.36	0.43
27:BH:99:ILE:HG12	27:BH:100:ASN:N	2.33	0.43
27:BH:167:VAL:CG2	27:BH:170:LYS:CE	2.96	0.43
32:BM:8:ILE:HG13	32:BM:34:VAL:HA	2.01	0.43
35:BP:19:ARG:NH1	35:BP:20:LYS:HB3	2.34	0.43
35:BP:22:TRP:C	35:BP:22:TRP:CD1	2.87	0.43
43:BW:16:HIS:CB	43:BW:30:ARG:CZ	2.95	0.43
43:BW:66:VAL:CG1	43:BW:67:GLU:N	2.81	0.43
43:BW:6:VAL:HG23	43:BW:6:VAL:O	2.18	0.43
18:B3:2407:G:O2'	18:B3:2408:A:H5'	2.18	0.43
40:BU:67:GLU:CD	40:BU:82:VAL:HG13	2.38	0.43
18:B3:905:C:O2	18:B3:1330:A:N7	2.46	0.43
41:BV:73:ASN:HB3	41:BV:75:ASP:OD2	2.18	0.43
11:AK:15:VAL:CG1	11:AK:16:ALA:N	2.82	0.43
11:AK:56:PRO:HD3	11:AK:88:THR:HB	2.00	0.43
3:AB:24:GLY:HA3	3:AB:45:HIS:O	2.19	0.43
18:B3:1882:C:O2'	18:B3:2012:U:OP2	2.33	0.43
21:BB:2:ARG:CG	21:BB:206:VAL:CG2	2.95	0.43
4:AC:105:LYS:HB3	4:AC:174:VAL:HG23	1.97	0.43
32:BM:91:THR:CG2	32:BM:95:LYS:HZ2	2.25	0.43
29:BJ:132:ARG:HB2	29:BJ:133:PRO:CA	2.49	0.43
18:B3:283:U:H5	18:B3:284:C:H41	1.66	0.43
7:AG:88:ILE:HG13	7:AG:90:GLU:HG2	2.01	0.43
40:BU:115:ARG:NH1	40:BU:118:LEU:HB3	2.34	0.43
21:BB:37:HIS:CB	21:BB:39:TYR:CD2	3.01	0.43
32:BM:61:THR:O	32:BM:62:ALA:HB3	2.18	0.43
18:B3:1495:C:H2'	18:B3:1496:G:H8	1.83	0.43
8:AH:92:LEU:H	8:AH:92:LEU:HD12	1.83	0.43
1:AA:998:G:O2'	1:AA:999:C:H5'	2.17	0.43
18:B3:2619:U:H2'	18:B3:2620:U:C6	2.53	0.43
18:B3:383:A:H2'	18:B3:384:G:O4'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:42:GLN:NE2	29:BJ:42:GLN:HA	2.34	0.43
1:AA:990:C:OP2	1:AA:1016:A:C6	2.71	0.43
1:AA:1329:A:C8	13:AM:97:ASP:OD1	2.72	0.43
1:AA:950:U:H2'	1:AA:951:G:C8	2.54	0.43
42:B0:32:TRP:CE3	42:B0:33:ARG:CA	3.01	0.43
1:AA:1162:C:H2'	1:AA:1163:C:C6	2.54	0.43
9:AI:96:VAL:HG12	9:AI:101:LYS:H	1.83	0.43
19:B4:37:C:N1	24:BE:156:GLY:N	2.66	0.43
19:B4:34:A:H2	24:BE:185:PHE:HA	1.81	0.43
24:BE:204:VAL:O	24:BE:207:TYR:CD2	2.71	0.43
19:B4:13:A:O3'	24:BE:20:PHE:HZ	2.01	0.43
36:BQ:43:LYS:N	36:BQ:95:HIS:CD2	2.86	0.43
33:BN:66:ILE:CB	33:BN:79:LYS:CD	2.95	0.43
23:BD:160:LYS:C	23:BD:217:ALA:HB1	2.38	0.43
23:BD:177:LEU:C	23:BD:180:VAL:HG23	2.39	0.43
23:BD:205:LEU:HD23	23:BD:221:VAL:HG11	2.00	0.43
18:B3:1347:U:O2	23:BD:240:GLY:HA3	2.18	0.43
34:BO:112:ALA:HA	34:BO:115:VAL:CG2	2.39	0.43
34:BO:79:LYS:CG	34:BO:138:LEU:HD11	2.46	0.43
34:BO:138:LEU:N	34:BO:138:LEU:CD1	2.82	0.43
34:BO:75:GLY:N	34:BO:138:LEU:CD2	2.82	0.43
18:B3:1871:U:H5''	21:BB:17:SER:CB	2.49	0.43
47:B9:23:ARG:HB3	47:B9:27:LYS:CG	2.30	0.43
21:BB:9:LYS:CA	21:BB:15:PHE:CE1	3.01	0.43
21:BB:8:ARG:CZ	21:BB:9:LYS:N	2.81	0.43
21:BB:9:LYS:HA	21:BB:15:PHE:CD1	2.44	0.43
25:BF:86:VAL:HG23	25:BF:112:SER:O	2.18	0.43
25:BF:122:THR:C	25:BF:124:GLU:H	2.21	0.43
19:B4:86:G:H5''	25:BF:218:LYS:HG3	1.97	0.43
25:BF:89:LYS:CD	25:BF:218:LYS:HE3	2.49	0.43
18:B3:70:A:H4'	18:B3:71:G:O5'	2.18	0.43
44:BX:49:LYS:HZ2	44:BX:50:SER:HA	1.84	0.43
18:B3:1730:G:H2'	18:B3:1730:G:N3	2.34	0.43
18:B3:2312:G:C4'	28:BI:22:TYR:HD1	2.31	0.43
22:BC:118:TYR:CD2	22:BC:133:SER:N	2.82	0.43
22:BC:163:THR:OG1	22:BC:177:LEU:HD21	2.18	0.43
22:BC:57:ARG:NE	22:BC:282:TYR:CE1	2.86	0.43
22:BC:46:LEU:HD21	22:BC:336:THR:HB	2.01	0.43
22:BC:49:LYS:HA	22:BC:78:VAL:HG22	2.01	0.43
28:BI:110:ARG:C	28:BI:111:LEU:HD12	2.23	0.43
22:BC:260:MET:HE3	32:BM:66:THR:CG2	2.45	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:9:THR:HG21	37:BR:11:PHE:O	2.18	0.43
26:BG:142:ILE:HD12	26:BG:143:GLU:CA	2.48	0.43
26:BG:152:ILE:CD1	26:BG:162:VAL:HB	2.49	0.43
31:BL:65:VAL:C	31:BL:126:TYR:CE2	2.92	0.43
31:BL:13:LYS:HE2	31:BL:22:GLN:HB2	2.00	0.43
31:BL:50:LEU:N	31:BL:50:LEU:CD1	2.81	0.43
18:B3:1796:A:N6	35:BP:96:ARG:HH11	2.17	0.43
18:B3:2737:C:OP2	35:BP:62:THR:CG2	2.53	0.43
35:BP:137:LEU:HD23	35:BP:137:LEU:O	2.18	0.43
29:BJ:109:ILE:CG2	29:BJ:110:ASP:N	2.82	0.43
29:BJ:134:GLY:O	29:BJ:136:ARG:HD3	2.18	0.43
29:BJ:155:LYS:HD2	29:BJ:156:GLU:H	1.84	0.43
20:BA:49:PHE:CE1	20:BA:157:PHE:HB3	2.53	0.43
20:BA:151:VAL:O	20:BA:158:GLN:HG2	2.19	0.43
20:BA:30:GLU:HG2	20:BA:210:MET:H	1.82	0.43
1:AA:6:G:H5''	1:AA:299:G:OP1	2.18	0.43
6:AE:168:LEU:HB2	8:AH:97:GLN:HG2	1.99	0.43
1:AA:551:U:O2	12:AL:48:HIS:ND1	2.51	0.43
37:BR:32:ARG:N	37:BR:32:ARG:CD	2.81	0.43
37:BR:74:MET:HG2	37:BR:75:PRO:CA	2.48	0.43
27:BH:104:VAL:HG12	27:BH:111:PHE:HA	1.98	0.43
27:BH:52:LEU:CG	27:BH:53:ILE:H	2.31	0.43
1:AA:677:U:O2	1:AA:777:A:O2'	2.32	0.43
43:BW:52:PRO:HB3	43:BW:55:ASN:HD21	1.84	0.43
18:B3:78:G:HO2'	40:BU:25:SER:C	2.22	0.43
18:B3:81:G:O2'	40:BU:75:ARG:HD2	2.19	0.43
40:BU:109:LEU:HD22	40:BU:111:LEU:HD12	2.01	0.43
40:BU:27:ARG:NE	40:BU:28:ARG:H	2.16	0.43
1:AA:913:A:O2'	1:AA:914:A:OP2	2.36	0.43
18:B3:907:A:H5'	18:B3:1328:A:C3'	2.46	0.43
1:AA:405:U:H5''	5:AD:37:LYS:NZ	2.33	0.43
41:BV:135:GLU:HB3	41:BV:136:LYS:HD2	1.99	0.43
41:BV:26:LYS:N	41:BV:26:LYS:HZ3	2.16	0.43
18:B3:1845:A:P	21:BB:199:ARG:NH1	2.86	0.43
15:AO:90:LEU:CD2	15:AO:121:ILE:HG12	2.49	0.43
34:BO:52:LEU:CD2	34:BO:84:VAL:CG2	2.96	0.43
18:B3:282:C:H3'	18:B3:283:U:H5'	1.99	0.43
40:BU:120:GLN:O	40:BU:121:ARG:HG2	2.18	0.43
46:BZ:34:LEU:CD1	46:BZ:34:LEU:N	2.82	0.43
1:AA:1266:G:N2	1:AA:1269:A:OP2	2.49	0.43
18:B3:790:A:H1'	18:B3:1710:A:H2'	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:419:VAL:HG13	2:AT:420:PRO:HD2	2.01	0.43
1:AA:1309:G:C8	13:AM:92:ILE:HG21	1.43	0.43
1:AA:1311:G:H2'	1:AA:1312:G:O4'	2.19	0.43
17:AS:89:MET:CB	17:AS:107:ILE:CD1	2.93	0.43
18:B3:1689:A:N6	33:BN:134:ARG:O	2.52	0.43
9:AI:91:TYR:CE2	9:AI:92:HIS:HD2	2.36	0.43
24:BE:112:ARG:CG	24:BE:113:LEU:N	2.81	0.43
19:B4:11:A:C6	24:BE:12:TYR:HB3	2.53	0.43
24:BE:90:HIS:HE1	24:BE:214:ASP:OD1	2.01	0.43
36:BQ:72:VAL:CG1	36:BQ:74:VAL:HG23	2.42	0.43
36:BQ:75:ILE:HG23	36:BQ:76:ILE:C	2.39	0.43
18:B3:2052:U:P	33:BN:24:SER:N	2.90	0.43
33:BN:47:LEU:HB3	33:BN:87:VAL:CG1	2.48	0.43
33:BN:68:ARG:O	33:BN:68:ARG:HG3	2.19	0.43
33:BN:88:LYS:HE3	33:BN:89:PHE:HB2	1.99	0.43
33:BN:98:ALA:HA	33:BN:108:ALA:CB	2.45	0.43
18:B3:1335:C:OP2	42:B0:100:ILE:HG23	2.13	0.43
18:B3:1313:A:OP1	42:B0:105:ARG:HD3	2.19	0.43
42:B0:121:ASN:HA	42:B0:122:PRO:HA	1.67	0.43
18:B3:1335:C:H5''	42:B0:96:ILE:HG23	2.01	0.43
18:B3:449:A:OP1	23:BD:45:LYS:CG	2.66	0.43
18:B3:657:G:H4'	23:BD:119:TYR:CE2	2.54	0.43
18:B3:750:A:C4'	23:BD:113:ASN:H	2.29	0.43
23:BD:109:ASN:HB3	23:BD:110:VAL:H	1.54	0.43
18:B3:1308:A:H62	23:BD:201:ARG:NH1	2.07	0.43
23:BD:221:VAL:CG1	23:BD:224:VAL:N	2.82	0.43
34:BO:89:ASP:CG	34:BO:109:GLY:HA3	2.39	0.43
18:B3:706:G:C6	34:BO:72:LYS:NZ	2.72	0.43
34:BO:79:LYS:H	34:BO:79:LYS:HD3	1.80	0.43
23:BD:75:ARG:CG	23:BD:81:THR:N	2.82	0.43
18:B3:473:A:H5''	45:BY:48:TRP:CE2	2.51	0.43
18:B3:1850:U:H2'	18:B3:1851:G:C8	2.54	0.43
21:BB:81:VAL:N	47:B9:64:ALA:HB3	2.34	0.43
21:BB:171:GLY:N	47:B9:67:ALA:H	2.10	0.43
18:B3:1900:A:OP1	21:BB:226:ARG:N	2.48	0.43
25:BF:207:SER:CB	25:BF:242:MET:SD	3.07	0.43
18:B3:2828:G:O3'	22:BC:130:THR:CG2	2.63	0.43
18:B3:2913:A:C2	22:BC:125:LYS:C	2.87	0.43
22:BC:188:SER:HA	22:BC:191:VAL:CG2	2.48	0.43
22:BC:105:TRP:O	22:BC:198:PHE:CZ	2.71	0.43
22:BC:46:LEU:CG	22:BC:47:GLY:N	2.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:92:VAL:HG12	22:BC:93:GLU:HB2	2.01	0.43
28:BI:116:ARG:HD2	28:BI:117:GLY:HA2	1.99	0.43
28:BI:42:THR:HG22	28:BI:44:ASP:CB	2.49	0.43
26:BG:189:VAL:CG1	26:BG:191:GLN:CG	2.95	0.43
31:BL:65:VAL:O	31:BL:126:TYR:CE2	2.72	0.43
31:BL:187:ARG:HH12	31:BL:191:LYS:HB3	1.83	0.43
31:BL:53:LYS:HE2	31:BL:58:PHE:CD2	2.51	0.43
18:B3:1787:C:C2	18:B3:2883:A:C1'	2.96	0.43
38:BS:9:SER:HA	38:BS:52:THR:HG23	2.01	0.43
7:AG:112:ILE:HD11	7:AG:189:ILE:CB	2.47	0.43
41:BV:35:GLY:CA	41:BV:39:HIS:HE1	2.31	0.43
29:BJ:162:PHE:CD1	29:BJ:166:TYR:CE2	2.96	0.43
4:AC:20:LEU:CD2	4:AC:76:PHE:CE1	3.01	0.43
10:AJ:71:PRO:HA	14:AN:30:VAL:N	2.19	0.43
1:AA:618:C:N3	1:AA:622:A:N6	2.66	0.43
5:AD:93:LEU:O	5:AD:96:VAL:HG12	2.19	0.43
1:AA:6:G:C5	6:AE:196:TYR:CD2	3.06	0.43
6:AE:169:ILE:HG21	6:AE:196:TYR:HB3	1.92	0.43
8:AH:100:TYR:CE2	8:AH:128:VAL:CG1	3.02	0.43
1:AA:363:A:C6	12:AL:43:PHE:O	2.72	0.43
1:AA:70:G:H2'	1:AA:73:C:C6	2.53	0.43
32:BM:15:VAL:CG2	32:BM:16:GLY:N	2.81	0.43
1:AA:920:U:O2'	1:AA:1080:A:C2'	2.65	0.43
35:BP:36:SER:O	35:BP:39:ALA:HB3	2.18	0.43
43:BW:61:ARG:CD	43:BW:65:GLY:CA	2.93	0.43
46:BZ:67:VAL:CG1	46:BZ:68:VAL:N	2.82	0.43
46:BZ:81:GLN:H	46:BZ:81:GLN:CD	2.21	0.43
1:AA:866:C:H2'	1:AA:867:G:O4'	2.18	0.43
12:AL:62:LYS:CG	12:AL:63:GLN:N	2.81	0.43
1:AA:546:G:C5'	1:AA:549:C:C5'	2.64	0.43
41:BV:68:TRP:H	41:BV:68:TRP:HD1	1.66	0.43
41:BV:95:LYS:CG	41:BV:96:GLU:H	2.31	0.43
10:AJ:62:VAL:HG22	10:AJ:85:ARG:HE	1.84	0.43
21:BB:199:ARG:N	21:BB:199:ARG:CD	2.82	0.43
3:AB:107:THR:CG2	3:AB:108:ASN:N	2.82	0.43
20:BA:68:PHE:CZ	20:BA:90:LEU:HB2	2.53	0.43
20:BA:85:MET:SD	20:BA:93:LEU:CD1	3.07	0.43
1:AA:27:G:H21	1:AA:296:U:H4'	1.83	0.43
7:AG:84:ALA:HB1	7:AG:89:ILE:C	2.39	0.43
37:BR:123:ALA:HA	37:BR:130:ALA:CB	2.48	0.43
1:AA:1067:A:H5'	1:AA:1387:G:H4'	1.94	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:96:LEU:HD12	7:AG:171:ILE:HG23	1.99	0.43
18:B3:2205:G:O6	18:B3:2206:C:C4	2.72	0.43
18:B3:95:A:H5'	18:B3:96:A:H3'	1.99	0.43
20:BA:70:ASP:CA	20:BA:74:VAL:HG23	2.47	0.43
18:B3:1496:G:H2'	18:B3:1497:G:H8	1.83	0.43
18:B3:1517:U:O2'	18:B3:1518:A:H5'	2.18	0.43
18:B3:1791:U:H2'	18:B3:1792:C:C6	2.54	0.43
7:AG:148:VAL:HG22	7:AG:149:GLY:N	2.33	0.43
18:B3:653:C:H2'	18:B3:654:A:C8	2.54	0.43
1:AA:882:C:O2'	1:AA:883:C:H5'	2.18	0.43
18:B3:2025:G:O2'	18:B3:2026:C:H5'	2.19	0.43
41:BV:88:GLN:HE21	41:BV:88:GLN:HB3	1.63	0.43
1:AA:1297:C:P	13:AM:56:LYS:HB2	2.58	0.43
10:AJ:41:ILE:HG22	10:AJ:52:LYS:HZ2	1.82	0.43
18:B3:2325:C:OP1	18:B3:2417:C:O2'	2.32	0.43
18:B3:2415:A:C2'	18:B3:2416:G:H5'	2.49	0.43
19:B4:35:C:H5'	19:B4:36:C:OP2	2.18	0.43
19:B4:6:C:O2	24:BE:72:ASP:CG	2.56	0.43
24:BE:37:VAL:CG1	24:BE:38:THR:N	2.82	0.43
36:BQ:87:LYS:C	36:BQ:87:LYS:HD2	2.38	0.43
1:AA:336:C:H2'	1:AA:1468:A:H2	1.48	0.43
1:AA:318:G:HO2'	1:AA:1468:A:C4'	2.31	0.43
18:B3:501:G:O2'	33:BN:100:ASN:ND2	2.51	0.43
33:BN:30:GLU:HG2	33:BN:81:ARG:HH21	1.82	0.43
18:B3:449:A:OP1	23:BD:45:LYS:HG3	2.19	0.43
34:BO:107:THR:CG2	34:BO:108:ALA:N	2.82	0.43
34:BO:63:SER:CA	34:BO:88:THR:CG2	2.96	0.43
18:B3:2101:A:N7	23:BD:71:ALA:HB1	2.34	0.43
18:B3:1181:A:C2	30:BK:105:GLN:CG	2.96	0.43
30:BK:108:GLU:HA	30:BK:111:GLU:HG2	2.00	0.43
18:B3:874:A:O4'	21:BB:196:PRO:CG	2.65	0.43
47:B9:29:GLU:HB3	47:B9:31:GLN:HB3	2.01	0.43
47:B9:31:GLN:HG2	47:B9:32:GLN:OE1	2.18	0.43
47:B9:50:ALA:O	47:B9:51:ALA:HB3	2.19	0.43
19:B4:85:A:H2'	25:BF:219:PHE:C	2.36	0.43
25:BF:162:LEU:HA	25:BF:166:ALA:HB3	1.99	0.43
25:BF:171:ASN:HD22	25:BF:171:ASN:H	1.64	0.43
18:B3:1287:A:H62	25:BF:201:LEU:CD1	2.31	0.43
18:B3:953:G:OP2	36:BQ:14:MET:N	2.52	0.43
18:B3:57:C:H1'	44:BX:35:LYS:HE3	1.96	0.43
44:BX:42:PRO:O	44:BX:43:LYS:HG3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:104:VAL:C	22:BC:105:TRP:CE3	2.91	0.43
22:BC:42:LEU:O	22:BC:207:VAL:HG11	2.18	0.43
22:BC:205:ASP:CA	22:BC:208:PHE:CE1	2.95	0.43
22:BC:242:HIS:CG	22:BC:243:ARG:N	2.87	0.43
22:BC:243:ARG:HG2	22:BC:244:GLY:N	2.34	0.43
22:BC:254:TRP:CE3	22:BC:256:PRO:CD	3.02	0.43
22:BC:204:VAL:HG21	22:BC:321:ILE:HD11	2.01	0.43
22:BC:332:LYS:HE3	22:BC:333:ARG:CZ	2.46	0.43
22:BC:49:LYS:CD	22:BC:50:ALA:N	2.81	0.43
18:B3:1054:G:H2'	28:BI:110:ARG:HD3	2.00	0.43
18:B3:2764:C:OP1	37:BR:13:ILE:HD13	2.18	0.43
18:B3:2708:G:O3'	37:BR:8:GLY:O	2.35	0.43
38:BS:23:ARG:HG3	38:BS:28:ILE:HG13	1.97	0.43
31:BL:119:TRP:CE3	31:BL:119:TRP:O	2.70	0.43
18:B3:1805:G:C6	18:B3:2883:A:C2	3.06	0.43
18:B3:1812:G:C1'	18:B3:2732:U:H4'	2.49	0.43
18:B3:166:A:C5	41:BV:28:PRO:O	2.50	0.43
18:B3:920:C:H5	41:BV:38:HIS:CE1	2.37	0.43
29:BJ:126:PHE:CD1	29:BJ:128:VAL:HG23	2.53	0.43
18:B3:2214:A:C3'	20:BA:106:LYS:CD	2.93	0.43
20:BA:60:ARG:HB2	20:BA:60:ARG:HE	1.57	0.43
39:BT:97:ALA:O	39:BT:98:VAL:HG23	2.18	0.43
3:AB:66:ILE:HG23	3:AB:70:GLU:HB3	1.93	0.43
3:AB:88:PHE:CZ	3:AB:170:GLY:HA2	2.53	0.43
5:AD:86:LEU:HD12	5:AD:96:VAL:CB	2.49	0.43
6:AE:153:LEU:CD1	8:AH:98:PHE:CD1	3.01	0.43
6:AE:153:LEU:HD13	8:AH:98:PHE:CD1	2.54	0.43
6:AE:168:LEU:CD2	6:AE:197:THR:CG2	2.96	0.43
12:AL:102:VAL:HG23	12:AL:133:LEU:HD11	2.01	0.43
12:AL:102:VAL:CG2	12:AL:103:LEU:N	2.82	0.43
18:B3:1141:U:O2'	18:B3:1142:C:H5'	2.18	0.43
18:B3:1246:A:O2'	18:B3:1247:A:H3'	2.18	0.43
27:BH:12:VAL:H	27:BH:52:LEU:HB2	1.83	0.43
18:B3:2566:A:C4'	27:BH:174:LYS:HZ1	2.32	0.43
27:BH:33:THR:C	27:BH:34:LEU:HD22	2.39	0.43
32:BM:35:VAL:HG11	32:BM:109:PRO:CA	2.48	0.43
32:BM:35:VAL:CG1	32:BM:36:ARG:N	2.80	0.43
1:AA:678:U:O2'	11:AK:125:THR:HG21	2.15	0.43
35:BP:37:ARG:NE	35:BP:37:ARG:HA	2.33	0.43
43:BW:15:LEU:N	43:BW:15:LEU:CD1	2.81	0.43
18:B3:2406:U:O2'	18:B3:2407:G:H5'	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:64:THR:CB	46:BZ:86:ARG:HB3	2.49	0.43
40:BU:35:LEU:CD1	40:BU:35:LEU:N	2.81	0.43
40:BU:58:VAL:CG1	40:BU:65:GLY:N	2.81	0.43
40:BU:57:LEU:N	40:BU:67:GLU:HG3	2.33	0.43
6:AE:204:ARG:CB	6:AE:207:GLU:HB2	2.49	0.43
18:B3:1300:G:C2	18:B3:1330:A:C6	3.06	0.43
2:AT:745:SER:HA	18:B3:2508:C:N3	2.33	0.43
1:AA:292:G:C2'	1:AA:608:A:C5	2.87	0.43
41:BV:82:PRO:HD2	41:BV:120:VAL:HA	1.98	0.43
41:BV:80:LEU:CD2	41:BV:86:ARG:CD	2.95	0.43
1:AA:1481:U:H2'	1:AA:1482:G:O4'	2.18	0.43
2:AT:740:VAL:HG12	2:AT:744:TYR:CE2	2.53	0.43
21:BB:31:LEU:O	21:BB:32:ASP:HB2	2.18	0.43
5:AD:69:ARG:CZ	5:AD:76:LEU:HD21	2.49	0.43
7:AG:85:GLN:HG2	7:AG:93:THR:HB	2.00	0.43
1:AA:105:G:H2'	1:AA:379:C:H4'	2.01	0.43
3:AB:55:LYS:HE3	3:AB:55:LYS:CA	2.37	0.43
11:AK:101:LEU:HG	11:AK:101:LEU:O	2.19	0.43
29:BJ:98:THR:HG23	29:BJ:99:GLY:N	2.33	0.43
18:B3:2899:A:O2'	18:B3:2900:G:H5'	2.19	0.43
1:AA:975:A:O5'	1:AA:976:G:H5'	2.19	0.43
1:AA:782:A:H2'	1:AA:783:C:O4'	2.18	0.43
1:AA:532:A:H2'	1:AA:533:A:C5'	2.48	0.43
18:B3:2872:U:H2'	18:B3:2873:C:H6	1.84	0.43
1:AA:1049:U:H4'	1:AA:1050:G:OP2	2.17	0.43
1:AA:1490:C:O2'	1:AA:1491:G:H5'	2.19	0.43
18:B3:1080:C:O2'	18:B3:1081:A:OP1	2.26	0.43
1:AA:1331:G:O2'	1:AA:1332:A:P	2.77	0.43
13:AM:63:GLN:OE1	13:AM:63:GLN:HA	2.18	0.43
18:B3:778:C:HO2'	45:BY:1:GLY:N	2.13	0.43
42:B0:14:THR:HG23	42:B0:15:LYS:O	2.18	0.43
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.82	0.43
1:AA:1177:G:C4	9:AI:106:LYS:HD2	2.54	0.43
10:AJ:22:ILE:HG23	10:AJ:116:VAL:HG11	1.98	0.43
24:BE:184:ASP:CA	24:BE:187:THR:CG2	2.91	0.43
24:BE:24:ARG:CG	24:BE:25:GLU:N	2.80	0.43
24:BE:90:HIS:CG	24:BE:91:GLY:H	2.36	0.43
19:B4:10:C:H42	36:BQ:26:HIS:CE1	2.28	0.43
33:BN:39:GLU:CG	33:BN:42:LYS:N	2.82	0.43
42:B0:96:ILE:HG21	42:B0:122:PRO:HD2	2.00	0.43
18:B3:450:C:C3'	18:B3:1304:U:C2'	2.95	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:721:A:OP2	34:BO:71:LEU:HD23	2.19	0.43
23:BD:174:HIS:CD2	23:BD:175:SER:N	2.87	0.43
23:BD:133:LEU:HD21	23:BD:243:LEU:HD23	2.01	0.43
34:BO:110:ALA:O	34:BO:111:ARG:HG3	2.19	0.43
18:B3:710:G:OP2	34:BO:43:PRO:HD2	2.19	0.43
18:B3:764:C:O2'	23:BD:86:GLN:O	2.33	0.43
18:B3:760:G:H1'	23:BD:98:MET:HE3	2.00	0.43
18:B3:2121:G:HO2'	31:BL:83:PRO:HD3	1.83	0.43
45:BY:17:LEU:HA	45:BY:24:ARG:O	2.18	0.43
18:B3:1164:U:OP1	30:BK:47:ALA:C	2.51	0.43
18:B3:1164:U:H6	30:BK:51:LYS:H	1.56	0.43
18:B3:1846:U:H4'	21:BB:181:ALA:H	1.82	0.43
47:B9:22:ARG:CZ	47:B9:22:ARG:H	2.32	0.43
21:BB:167:VAL:CG1	21:BB:168:ILE:N	2.81	0.43
21:BB:47:ILE:N	21:BB:47:ILE:CD1	2.82	0.43
19:B4:97:U:HO2'	25:BF:223:ILE:HG23	1.83	0.43
1:AA:265:G:H4'	16:AQ:130:ILE:O	2.19	0.43
18:B3:1133:A:C4'	18:B3:2521:A:H5'	2.49	0.43
18:B3:2724:U:H2'	18:B3:2725:G:O4'	2.19	0.43
22:BC:58:ASP:CG	22:BC:354:SER:HB2	2.39	0.43
22:BC:304:ILE:CD1	22:BC:358:ILE:HG12	2.47	0.43
28:BI:154:ARG:CZ	28:BI:154:ARG:CB	2.95	0.43
28:BI:60:LEU:N	28:BI:60:LEU:HD23	2.34	0.43
37:BR:91:VAL:HB	38:BS:18:GLY:O	2.19	0.43
18:B3:2242:U:O2'	18:B3:2243:C:H2'	2.19	0.43
26:BG:119:LYS:HE2	26:BG:184:ARG:HD3	1.99	0.43
26:BG:142:ILE:CD1	26:BG:172:MET:SD	3.06	0.43
31:BL:58:PHE:CZ	31:BL:147:TYR:CD1	3.07	0.43
31:BL:151:CYS:CA	31:BL:157:HIS:NE2	2.82	0.43
31:BL:155:HIS:CG	31:BL:156:LYS:N	2.87	0.43
31:BL:43:ARG:NE	31:BL:46:LYS:HE3	2.33	0.43
18:B3:1706:G:P	35:BP:65:HIS:HD1	2.42	0.43
29:BJ:130:MET:HE3	29:BJ:162:PHE:CD2	2.54	0.43
29:BJ:136:ARG:HD3	29:BJ:137:VAL:N	2.34	0.43
29:BJ:165:LYS:O	29:BJ:166:TYR:CD2	2.72	0.43
29:BJ:35:VAL:C	29:BJ:37:GLU:H	2.22	0.43
29:BJ:16:LEU:CG	29:BJ:70:VAL:HG11	2.48	0.43
20:BA:59:PRO:CD	20:BA:153:SER:HA	2.49	0.43
20:BA:63:MET:HE2	20:BA:108:ASN:CG	2.39	0.43
1:AA:640:A:C2'	1:AA:641:U:H5'	2.48	0.43
5:AD:109:LEU:HD23	5:AD:109:LEU:C	2.39	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:90:LYS:NZ	6:AE:171:ALA:HB1	2.33	0.43
12:AL:59:ILE:CD1	12:AL:117:ILE:CG2	2.97	0.43
2:AT:108:HIS:CB	2:AT:536:LEU:CD2	2.96	0.43
18:B3:2561:C:H5"	18:B3:2778:A:C5'	2.47	0.43
18:B3:1243:C:H4'	32:BM:17:ARG:HH12	1.74	0.43
27:BH:10:ILE:HD13	27:BH:10:ILE:C	2.38	0.43
27:BH:132:VAL:HG22	27:BH:133:THR:N	2.34	0.43
32:BM:43:SER:HA	32:BM:134:TYR:CB	2.47	0.43
1:AA:677:U:H3	11:AK:123:ASP:C	2.22	0.43
18:B3:1399:A:H2'	18:B3:1400:C:C6	2.54	0.43
35:BP:8:ARG:HH11	35:BP:8:ARG:HD2	1.63	0.43
43:BW:61:ARG:HG2	43:BW:62:GLY:N	2.32	0.43
1:AA:1074:G:O2'	3:AB:102:THR:HG21	2.19	0.43
40:BU:70:ILE:CG2	40:BU:71:SER:N	2.82	0.43
40:BU:74:TYR:HD1	40:BU:75:ARG:N	2.16	0.43
1:AA:1344:C:P	9:AI:136:ARG:CG	3.03	0.43
18:B3:698:A:P	41:BV:132:LEU:HD11	2.56	0.43
41:BV:82:PRO:HD3	41:BV:120:VAL:HA	1.95	0.43
41:BV:90:LEU:HD22	41:BV:96:GLU:OE1	2.18	0.43
1:AA:581:G:P	15:AO:119:SER:OG	2.77	0.43
1:AA:112:G:H5'	1:AA:390:C:OP1	2.18	0.43
18:B3:875:A:H5'	18:B3:876:A:C2	2.53	0.43
6:AE:115:LYS:HD2	6:AE:130:ILE:HB	2.01	0.43
1:AA:280:C:C2	16:AQ:102:ARG:CG	2.96	0.43
29:BJ:8:MET:HB2	29:BJ:9:ARG:HH21	1.83	0.43
21:BB:36:ARG:CD	21:BB:36:ARG:N	2.82	0.43
20:BA:196:LYS:HD2	20:BA:199:GLN:OE1	2.19	0.43
17:AS:64:LYS:HD3	17:AS:65:LEU:CA	2.48	0.43
36:BQ:12:ARG:N	36:BQ:12:ARG:CD	2.81	0.43
22:BC:167:LYS:HE3	22:BC:167:LYS:HB2	1.77	0.43
6:AE:183:VAL:CG1	6:AE:187:LEU:HD13	2.40	0.43
30:BK:22:VAL:CG2	30:BK:23:GLY:N	2.80	0.43
27:BH:138:THR:HG23	27:BH:139:ASN:OD1	2.17	0.43
18:B3:807:A:N1	18:B3:808:A:C2	2.87	0.43
18:B3:1288:U:H5'	25:BF:108:THR:CG2	2.49	0.43
5:AD:139:GLN:HA	5:AD:139:GLN:HE21	1.83	0.43
17:AS:121:ILE:H	17:AS:121:ILE:HD12	1.84	0.43
17:AS:60:LEU:CD1	17:AS:83:MET:SD	3.07	0.43
18:B3:1694:G:H22	45:BY:5:PRO:HG3	1.40	0.43
45:BY:2:LYS:HD2	45:BY:3:GLY:O	2.19	0.43
18:B3:541:C:H5"	42:B0:14:THR:HG23	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1126:U:H6	1:AA:1126:U:P	2.41	0.43
9:AI:98:GLU:C	9:AI:105:LYS:N	2.72	0.43
1:AA:1176:A:C3'	9:AI:107:ALA:CB	2.74	0.43
18:B3:2413:A:C1'	24:BE:175:HIS:CA	2.90	0.43
24:BE:76:ALA:HB1	24:BE:108:ARG:HB3	2.00	0.43
24:BE:18:THR:HA	24:BE:19:PRO:HD3	1.68	0.43
24:BE:32:GLN:C	24:BE:34:LYS:H	2.21	0.43
24:BE:49:TYR:CE2	24:BE:144:VAL:CG1	2.95	0.43
24:BE:75:LEU:CG	24:BE:76:ALA:N	2.82	0.43
33:BN:59:PHE:HE1	33:BN:79:LYS:CD	2.29	0.43
18:B3:1336:U:C5	42:B0:98:HIS:HB2	2.53	0.43
18:B3:664:U:P	23:BD:114:HIS:CB	3.06	0.43
18:B3:678:G:C8	23:BD:259:GLN:OE1	2.71	0.43
23:BD:221:VAL:CG1	23:BD:224:VAL:CB	2.94	0.43
34:BO:79:LYS:HZ2	34:BO:99:THR:CG2	2.32	0.43
30:BK:79:SER:HA	30:BK:82:ILE:HD12	2.00	0.43
18:B3:1878:G:O2'	18:B3:1879:U:P	2.77	0.43
21:BB:127:ARG:CG	21:BB:128:ALA:N	2.82	0.43
25:BF:106:ARG:HB3	25:BF:107:LEU:H	1.64	0.43
18:B3:2066:C:OP2	22:BC:255:HIS:HB2	2.16	0.43
18:B3:2518:C:O2	28:BI:158:LYS:HD2	2.18	0.43
22:BC:161:VAL:HG11	22:BC:180:ILE:CG1	2.48	0.43
22:BC:87:GLY:N	22:BC:198:PHE:CE1	2.87	0.43
22:BC:24:ILE:HG13	22:BC:24:ILE:O	2.18	0.43
22:BC:33:LYS:HD3	22:BC:33:LYS:C	2.39	0.43
22:BC:42:LEU:CD1	22:BC:42:LEU:N	2.81	0.43
22:BC:91:TYR:HB2	22:BC:155:SER:HB2	2.00	0.43
28:BI:167:LEU:HD13	28:BI:168:SER:CA	2.48	0.43
18:B3:263:U:N3	26:BG:157:ASP:CG	2.70	0.43
31:BL:158:ARG:HB3	31:BL:158:ARG:HH11	1.80	0.43
31:BL:163:LEU:HD13	31:BL:165:ALA:H	1.84	0.43
31:BL:10:GLN:OE1	31:BL:18:LEU:HD21	2.19	0.43
31:BL:3:TYR:HA	31:BL:3:TYR:HD1	1.53	0.43
31:BL:70:ARG:C	31:BL:72:ARG:HE	2.21	0.43
18:B3:1705:C:O2'	35:BP:61:ARG:HB3	2.19	0.43
18:B3:925:C:H1'	41:BV:42:ILE:O	2.18	0.43
29:BJ:136:ARG:HD3	29:BJ:136:ARG:N	2.34	0.43
14:AN:37:ILE:CG2	14:AN:38:CYS:N	2.82	0.43
1:AA:6:G:C4'	1:AA:298:A:C2'	2.95	0.43
6:AE:168:LEU:HD22	6:AE:197:THR:HG22	1.98	0.43
8:AH:100:TYR:CZ	8:AH:128:VAL:HG11	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:100:TYR:HB2	8:AH:111:ASP:OD2	2.18	0.43
12:AL:117:ILE:HG13	12:AL:117:ILE:O	2.19	0.43
1:AA:99:C:C1'	1:AA:102:G:C5	2.98	0.43
27:BH:128:VAL:CG1	27:BH:129:ARG:N	2.82	0.43
27:BH:41:ILE:CG2	27:BH:42:ASP:N	2.81	0.43
27:BH:55:VAL:CG1	27:BH:56:ALA:N	2.80	0.43
32:BM:133:LYS:CD	32:BM:133:LYS:H	2.22	0.43
32:BM:54:HIS:HA	32:BM:60:ALA:HB3	2.00	0.43
18:B3:1103:C:C2	32:BM:86:MET:HG2	2.51	0.43
18:B3:1397:C:O2'	35:BP:23:LEU:CB	2.65	0.43
43:BW:26:LYS:HG2	43:BW:29:PRO:HB2	2.01	0.43
18:B3:1386:G:H5'	43:BW:49:ARG:HD3	1.28	0.43
46:BZ:15:THR:CG2	46:BZ:76:CYS:SG	3.07	0.43
18:B3:2853:U:OP2	22:BC:170:LEU:CB	2.67	0.43
40:BU:38:GLU:O	40:BU:42:GLN:HG2	2.19	0.43
18:B3:644:G:O6	41:BV:16:ALA:HB3	2.18	0.43
18:B3:399:C:P	31:BL:180:ASN:CB	2.80	0.43
47:B9:15:VAL:O	47:B9:15:VAL:HG23	2.19	0.43
11:AK:26:PHE:HA	11:AK:41:VAL:HG12	2.00	0.43
18:B3:521:A:P	42:B0:26:HIS:NE2	2.73	0.43
15:AO:73:ILE:CG2	15:AO:74:LEU:N	2.82	0.43
4:AC:98:VAL:N	4:AC:170:ALA:CB	2.82	0.43
18:B3:1524:U:O2'	18:B3:1525:G:P	2.76	0.43
3:AB:116:GLU:HG3	3:AB:116:GLU:O	2.18	0.43
29:BJ:98:THR:CG2	29:BJ:99:GLY:N	2.81	0.43
30:BK:90:ARG:HB2	30:BK:139:VAL:HG23	2.00	0.43
13:AM:50:ALA:HB1	13:AM:68:ARG:HD2	2.01	0.43
27:BH:138:THR:CG2	27:BH:139:ASN:N	2.82	0.43
18:B3:582:C:H2'	18:B3:583:G:C8	2.48	0.43
18:B3:1518:A:H2'	18:B3:1519:U:C6	2.54	0.43
18:B3:204:A:H2'	18:B3:205:U:H5'	2.01	0.43
19:B4:52:A:C2'	19:B4:53:G:H5'	2.48	0.43
1:AA:942:G:H2'	1:AA:943:U:H6	1.83	0.43
3:AB:78:ARG:NH1	3:AB:80:PHE:CD1	2.87	0.43
8:AH:117:ARG:HD3	8:AH:117:ARG:C	2.39	0.43
6:AE:158:THR:HG23	6:AE:158:THR:O	2.19	0.43
13:AM:46:VAL:HG23	13:AM:84:TRP:CZ2	2.54	0.43
1:AA:1317:C:C2'	17:AS:54:ALA:HA	2.49	0.43
17:AS:56:PHE:H	17:AS:80:MET:HE1	1.84	0.43
42:B0:41:VAL:CG1	42:B0:42:VAL:N	2.82	0.43
9:AI:61:ASN:OD1	9:AI:62:ILE:HG12	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:34:LEU:O	10:AJ:37:VAL:HG22	2.19	0.43
24:BE:76:ALA:HB3	24:BE:109:THR:CA	2.49	0.43
24:BE:112:ARG:CD	24:BE:113:LEU:N	2.82	0.43
24:BE:99:TYR:CD2	24:BE:99:TYR:N	2.82	0.43
23:BD:133:LEU:HD21	23:BD:243:LEU:CD2	2.48	0.43
18:B3:1305:C:OP2	23:BD:191:GLY:C	2.56	0.43
23:BD:24:VAL:O	23:BD:25:PHE:CD2	2.72	0.43
23:BD:30:ARG:NH2	34:BO:23:ASN:CB	2.77	0.43
23:BD:5:VAL:HG23	23:BD:148:PRO:HG3	2.01	0.43
18:B3:721:A:C5'	34:BO:71:LEU:CA	2.97	0.43
18:B3:1360:C:P	23:BD:91:ASN:OD1	2.71	0.43
30:BK:87:GLU:HG3	30:BK:101:SER:O	2.19	0.43
30:BK:113:ALA:N	30:BK:132:ILE:CD1	2.82	0.43
21:BB:89:ALA:CA	21:BB:100:VAL:CG2	2.95	0.43
19:B4:98:C:H4'	25:BF:223:ILE:H	1.84	0.43
25:BF:153:GLY:N	25:BF:200:PHE:CB	2.81	0.43
16:AQ:123:THR:OG1	16:AQ:139:VAL:HB	2.19	0.43
18:B3:1054:G:H3'	28:BI:110:ARG:HB2	2.01	0.43
18:B3:2283:G:O6	28:BI:106:ALA:N	2.51	0.43
18:B3:2312:G:H2'	18:B3:2313:C:H5'	2.01	0.43
18:B3:2820:A:H2'	18:B3:2821:C:C6	2.54	0.43
18:B3:2838:A:H2'	18:B3:2839:C:C6	2.54	0.43
22:BC:182:LEU:HG	22:BC:194:ALA:HB2	2.00	0.43
22:BC:221:LYS:HG2	22:BC:331:ARG:CG	2.49	0.43
22:BC:247:LYS:HE2	22:BC:247:LYS:N	2.23	0.43
22:BC:75:VAL:CG1	22:BC:326:CYS:CB	2.94	0.43
28:BI:102:MET:HE2	28:BI:112:GLN:CA	2.49	0.43
18:B3:966:U:O2'	28:BI:92:HIS:CE1	2.72	0.43
28:BI:92:HIS:HA	28:BI:93:PRO:HD3	1.71	0.43
37:BR:9:THR:CG2	37:BR:10:LYS:N	2.82	0.43
37:BR:13:ILE:CD1	37:BR:14:SER:N	2.82	0.43
38:BS:23:ARG:CG	38:BS:28:ILE:CG1	2.94	0.43
18:B3:189:A:H4'	31:BL:187:ARG:HA	2.00	0.43
26:BG:111:GLU:CB	26:BG:117:GLU:HG3	2.48	0.43
18:B3:264:G:N2	26:BG:133:TYR:CD2	2.87	0.43
26:BG:168:LEU:HA	26:BG:168:LEU:HD23	1.84	0.43
31:BL:48:ARG:H	31:BL:52:TYR:CB	2.31	0.43
31:BL:97:LEU:H	31:BL:97:LEU:CD2	2.16	0.43
18:B3:1566:C:OP1	35:BP:59:LYS:CG	2.58	0.43
35:BP:81:LYS:C	35:BP:81:LYS:HD2	2.38	0.43
38:BS:52:THR:HB	38:BS:55:PHE:N	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BS:55:PHE:CD2	38:BS:56:ARG:N	2.87	0.43
18:B3:2345:A:H4'	29:BJ:48:LYS:HZ2	1.79	0.43
29:BJ:166:TYR:C	29:BJ:166:TYR:CD1	2.92	0.43
18:B3:2337:G:N2	29:BJ:17:VAL:O	2.44	0.43
29:BJ:18:LEU:CD1	29:BJ:19:ASN:N	2.82	0.43
18:B3:1675:C:OP1	39:BT:118:THR:O	2.36	0.43
39:BT:75:VAL:HB	39:BT:131:ALA:HB1	2.00	0.43
4:AC:72:VAL:CG1	4:AC:83:ILE:HD12	2.49	0.43
10:AJ:70:THR:HA	14:AN:42:PHE:HB3	0.70	0.43
5:AD:172:VAL:CG1	5:AD:173:ALA:N	2.82	0.43
8:AH:6:LEU:HD21	8:AH:125:LEU:HB3	2.00	0.43
1:AA:521:G:H5'	12:AL:89:ASN:N	2.30	0.43
1:AA:552:U:O3'	12:AL:106:GLY:HA3	2.19	0.43
12:AL:92:CYS:CA	12:AL:136:TRP:HZ3	2.31	0.43
18:B3:1103:C:H1'	32:BM:86:MET:CB	2.48	0.43
27:BH:42:ASP:HB2	32:BM:126:LEU:HD21	1.17	0.43
32:BM:40:LEU:CD2	32:BM:137:LEU:HA	2.49	0.43
18:B3:1396:C:O4'	35:BP:2:ASN:HB2	2.19	0.43
35:BP:37:ARG:HD2	35:BP:37:ARG:N	2.34	0.43
46:BZ:65:LYS:HA	46:BZ:66:LYS:HE2	2.00	0.43
1:AA:1492:A:H2'	1:AA:1493:A:C8	2.53	0.43
40:BU:103:LYS:CD	40:BU:104:LEU:N	2.82	0.43
40:BU:40:ARG:CZ	40:BU:41:ALA:HB3	2.47	0.43
40:BU:85:VAL:CG1	40:BU:86:THR:N	2.82	0.43
1:AA:865:A:O3'	1:AA:1079:G:C2	2.66	0.43
5:AD:55:ALA:HB1	5:AD:59:LEU:HB3	2.01	0.43
41:BV:81:ILE:HG13	41:BV:86:ARG:NH1	2.34	0.43
1:AA:121:C:C4	1:AA:235:C:C4	3.03	0.43
1:AA:111:G:H1'	1:AA:389:A:C1'	2.49	0.43
18:B3:2253:G:H2'	18:B3:2254:G:C8	2.50	0.43
21:BB:199:ARG:O	21:BB:199:ARG:HG2	2.19	0.43
4:AC:114:ILE:HG22	4:AC:141:LEU:HD21	2.00	0.43
18:B3:1521:C:O2'	18:B3:1522:A:H5'	2.19	0.43
18:B3:2222:C:O2'	18:B3:2223:C:H5'	2.19	0.43
32:BM:2:VAL:HG12	32:BM:32:ILE:CD1	2.49	0.43
32:BM:5:VAL:CG1	32:BM:32:ILE:N	2.82	0.43
18:B3:1097:A:P	25:BF:213:TRP:CE3	2.93	0.43
18:B3:1209:C:H2'	18:B3:1210:G:C8	2.45	0.43
16:AQ:74:VAL:CG2	16:AQ:116:VAL:HG21	2.40	0.43
2:AT:91:GLN:HG3	2:AT:347:THR:OG1	2.18	0.43
34:BO:100:THR:HG21	34:BO:120:GLU:N	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:148:GLY:O	29:BJ:149:ASN:HB3	2.19	0.43
26:BG:193:THR:CG2	26:BG:194:SER:N	2.82	0.43
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.19	0.43
1:AA:765:G:N2	1:AA:812:C:O2'	2.52	0.43
7:AG:92:LEU:HD12	7:AG:92:LEU:N	2.34	0.43
13:AM:49:LYS:HE2	13:AM:49:LYS:HA	2.00	0.43
2:AT:306:VAL:HG23	2:AT:306:VAL:O	2.19	0.43
1:AA:974:A:H8	1:AA:974:A:OP1	2.02	0.43
18:B3:1021:G:O2'	18:B3:1022:A:H5'	2.19	0.43
2:AT:43:ALA:HB1	2:AT:78:TYR:O	2.18	0.43
1:AA:1320:C:H3'	17:AS:115:TYR:HB2	1.99	0.42
13:AM:122:HIS:O	13:AM:126:ARG:HG2	2.19	0.42
1:AA:1302:U:OP2	13:AM:43:SER:C	2.58	0.42
13:AM:26:ILE:CA	13:AM:57:ARG:CD	2.96	0.42
1:AA:1329:A:C6	13:AM:97:ASP:OD1	2.69	0.42
1:AA:1320:C:N4	17:AS:81:ARG:O	2.52	0.42
45:BY:9:LYS:CD	45:BY:10:ARG:N	2.82	0.42
18:B3:541:C:P	42:B0:16:LYS:C	2.97	0.42
42:B0:42:VAL:CG1	42:B0:43:ARG:N	2.82	0.42
18:B3:618:G:H4'	42:B0:41:VAL:O	2.19	0.42
1:AA:1152:A:H4'	10:AJ:31:VAL:HB	0.97	0.42
9:AI:47:VAL:CG1	9:AI:81:ARG:HA	2.47	0.42
9:AI:99:GLN:HG2	9:AI:114:THR:H	1.83	0.42
10:AJ:32:LYS:HG3	10:AJ:36:ASN:ND2	2.33	0.42
24:BE:56:THR:CG2	24:BE:57:ASN:N	2.82	0.42
42:B0:96:ILE:CD1	42:B0:109:LEU:CD1	2.95	0.42
23:BD:205:LEU:HD23	23:BD:224:VAL:HB	2.01	0.42
18:B3:677:C:H3'	23:BD:259:GLN:HG2	1.05	0.42
18:B3:1182:U:H5''	30:BK:142:ARG:O	2.19	0.42
18:B3:1861:C:O2'	21:BB:7:GLN:CA	2.67	0.42
47:B9:38:CYS:SG	47:B9:61:LYS:CG	3.07	0.42
21:BB:188:TYR:CG	21:BB:189:ARG:N	2.86	0.42
21:BB:57:LEU:HD12	21:BB:74:ILE:HG21	2.00	0.42
1:AA:255:G:C1'	16:AQ:80:HIS:HB2	2.48	0.42
18:B3:2301:A:H5''	18:B3:2302:A:H5'	2.02	0.42
18:B3:2820:A:H1'	22:BC:89:VAL:HG11	1.81	0.42
22:BC:221:LYS:CG	22:BC:331:ARG:CG	2.96	0.42
22:BC:280:LYS:CA	22:BC:324:LYS:HE2	2.48	0.42
22:BC:332:LYS:N	22:BC:332:LYS:CD	2.82	0.42
28:BI:165:ILE:CG2	28:BI:166:ILE:N	2.82	0.42
37:BR:79:VAL:CG1	37:BR:118:VAL:HG12	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:80:ARG:NH2	37:BR:85:TRP:CZ2	2.87	0.42
22:BC:71:VAL:HG22	37:BR:87:ARG:HD2	1.16	0.42
18:B3:264:G:OP1	31:BL:48:ARG:NE	2.45	0.42
18:B3:263:U:O4	26:BG:157:ASP:OD1	2.37	0.42
26:BG:163:VAL:CG1	26:BG:164:PHE:N	2.82	0.42
31:BL:114:VAL:HA	31:BL:133:LEU:HA	2.00	0.42
31:BL:132:ILE:O	31:BL:133:LEU:HD23	2.19	0.42
18:B3:2885:A:O2'	18:B3:2886:C:H5'	2.19	0.42
35:BP:116:LYS:HE2	35:BP:117:HIS:NE2	2.33	0.42
7:AG:118:ASP:HA	7:AG:121:ASN:HD22	1.84	0.42
29:BJ:13:ILE:CG2	29:BJ:162:PHE:CE2	2.96	0.42
18:B3:123:U:H3'	39:BT:88:LYS:HE2	1.42	0.42
39:BT:132:LEU:CG	39:BT:133:ASP:N	2.82	0.42
18:B3:1447:U:C4	39:BT:70:THR:HA	2.54	0.42
4:AC:83:ILE:CG2	4:AC:84:VAL:N	2.82	0.42
10:AJ:78:THR:HG1	14:AN:39:ARG:NH2	2.06	0.42
5:AD:104:PHE:H	5:AD:107:ARG:HE	1.66	0.42
6:AE:215:VAL:O	8:AH:76:PRO:HG3	2.19	0.42
1:AA:25:C:C1'	12:AL:109:ARG:HH12	2.30	0.42
1:AA:362:G:O2'	12:AL:78:LYS:CG	2.67	0.42
1:AA:65:U:O2	1:AA:382:A:C4	2.57	0.42
37:BR:26:ALA:CA	37:BR:115:THR:HG22	2.49	0.42
7:AG:101:ARG:HD2	7:AG:106:LYS:HD2	2.00	0.42
9:AI:15:ALA:HB2	9:AI:75:SER:OG	2.19	0.42
18:B3:2559:C:O2'	18:B3:2776:A:N1	2.40	0.42
27:BH:46:THR:CA	27:BH:55:VAL:HG23	2.48	0.42
32:BM:17:ARG:NH1	32:BM:17:ARG:HG3	2.34	0.42
35:BP:43:LEU:H	35:BP:43:LEU:CD2	2.32	0.42
35:BP:8:ARG:NH2	35:BP:18:LYS:HD3	2.34	0.42
46:BZ:11:CYS:SG	46:BZ:73:CYS:CB	3.06	0.42
1:AA:877:C:H1'	8:AH:3:SER:HG	1.59	0.42
1:AA:1344:C:C5'	9:AI:136:ARG:HB3	2.48	0.42
1:AA:19:C:O2'	1:AA:20:U:H5'	2.19	0.42
5:AD:27:GLU:CB	5:AD:34:PHE:HB2	2.49	0.42
18:B3:1687:C:O2'	45:BY:8:GLY:C	2.53	0.42
41:BV:101:ILE:HG22	41:BV:102:ASP:N	2.32	0.42
1:AA:924:C:C4'	1:AA:1398:A:N7	2.82	0.42
18:B3:194:A:O3'	31:BL:178:LYS:O	2.37	0.42
18:B3:2433:A:H5'	46:BZ:36:ALA:HB3	0.84	0.42
1:AA:1341:U:OP1	9:AI:141:TYR:HE2	1.88	0.42
11:AK:29:VAL:HG23	11:AK:66:VAL:HG12	1.95	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:63:ALA:HB3	11:AK:103:ALA:CB	2.48	0.42
15:AO:77:ASN:ND2	15:AO:88:TYR:CG	2.87	0.42
4:AC:114:ILE:CG2	4:AC:141:LEU:CG	2.95	0.42
33:BN:49:GLN:HG2	33:BN:55:ARG:HB2	2.01	0.42
32:BM:26:LEU:CD2	32:BM:97:ALA:CB	2.95	0.42
32:BM:90:LYS:N	32:BM:90:LYS:CD	2.82	0.42
32:BM:95:LYS:HD3	32:BM:95:LYS:O	2.19	0.42
18:B3:364:C:H2'	18:B3:365:G:C8	2.54	0.42
21:BB:143:ASN:C	21:BB:144:LYS:HD2	2.40	0.42
21:BB:142:GLU:CG	21:BB:144:LYS:CD	2.95	0.42
30:BK:93:LYS:HE3	30:BK:96:LYS:HB3	2.01	0.42
46:BZ:44:ARG:CD	46:BZ:45:LYS:N	2.82	0.42
18:B3:1666:C:O2'	18:B3:1667:A:H5'	2.19	0.42
3:AB:100:ARG:HD2	3:AB:100:ARG:N	2.33	0.42
12:AL:28:ASN:HB3	12:AL:30:LYS:O	2.19	0.42
18:B3:588:G:O2'	18:B3:589:U:P	2.77	0.42
1:AA:1220:G:H5'	17:AS:59:LYS:CB	2.32	0.42
1:AA:1298:C:H5''	13:AM:27:LYS:HD3	1.53	0.42
18:B3:882:A:H4'	45:BY:2:LYS:HB2	2.01	0.42
18:B3:1074:G:C5'	42:B0:45:ARG:HH11	2.32	0.42
1:AA:1277:C:H1'	1:AA:1282:C:O2	2.19	0.42
9:AI:41:GLU:HG3	9:AI:41:GLU:O	2.19	0.42
10:AJ:30:LYS:HG3	10:AJ:32:LYS:H	1.84	0.42
19:B4:49:G:C6	24:BE:93:THR:OG1	2.73	0.42
24:BE:139:PRO:O	24:BE:142:PHE:HD1	2.02	0.42
24:BE:64:ILE:HD12	24:BE:144:VAL:HG11	1.98	0.42
19:B4:36:C:C2	24:BE:181:PRO:HD3	2.53	0.42
19:B4:7:G:C6	24:BE:21:ARG:NE	2.87	0.42
19:B4:6:C:OP2	24:BE:27:LYS:C	2.58	0.42
24:BE:44:TYR:CD2	24:BE:45:ASN:N	2.87	0.42
24:BE:57:ASN:O	24:BE:58:LYS:HG3	2.09	0.42
18:B3:2389:U:OP2	36:BQ:88:ARG:NH2	2.48	0.42
42:B0:109:LEU:O	42:B0:112:ALA:HB2	2.18	0.42
34:BO:63:SER:HA	34:BO:88:THR:HG22	1.98	0.42
34:BO:87:VAL:HG13	34:BO:106:PHE:CG	2.53	0.42
23:BD:82:GLY:HA2	23:BD:83:ARG:HH22	1.83	0.42
45:BY:30:LYS:HD2	45:BY:32:THR:N	2.34	0.42
18:B3:2124:G:H2'	18:B3:2125:G:H8	1.85	0.42
47:B9:24:GLN:CG	47:B9:25:VAL:N	2.82	0.42
21:BB:98:GLY:N	21:BB:165:ILE:HG21	2.34	0.42
21:BB:187:LYS:CE	21:BB:187:LYS:N	2.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:192:ARG:O	21:BB:193:ASN:HB3	2.19	0.42
21:BB:19:THR:CG2	21:BB:20:ARG:N	2.83	0.42
21:BB:3:VAL:CG2	21:BB:7:GLN:HE21	2.32	0.42
18:B3:1862:C:OP1	21:BB:7:GLN:HB2	2.19	0.42
25:BF:109:ARG:HB3	25:BF:109:ARG:NH1	2.34	0.42
25:BF:150:ARG:NH1	25:BF:151:GLY:H	2.17	0.42
25:BF:89:LYS:HG2	25:BF:218:LYS:HE2	2.02	0.42
44:BX:51:ILE:CG2	44:BX:52:ALA:N	2.81	0.42
44:BX:58:ILE:HG13	44:BX:59:ASN:H	1.79	0.42
18:B3:1730:G:H5'	18:B3:1731:C:H5	1.80	0.42
18:B3:2819:C:H2'	22:BC:100:SER:CB	2.48	0.42
22:BC:260:MET:O	22:BC:261:TRP:CG	2.72	0.42
28:BI:102:MET:HE3	28:BI:102:MET:HA	2.00	0.42
28:BI:102:MET:CB	28:BI:113:GLN:HG3	2.43	0.42
28:BI:46:PHE:CZ	28:BI:139:ARG:NE	2.87	0.42
28:BI:39:LYS:CD	28:BI:40:LYS:N	2.82	0.42
28:BI:46:PHE:C	28:BI:46:PHE:CD1	2.92	0.42
18:B3:2136:G:H1'	18:B3:2239:C:N3	2.34	0.42
31:BL:161:ARG:CZ	31:BL:162:GLY:N	2.82	0.42
31:BL:22:GLN:O	31:BL:25:ARG:CD	2.67	0.42
18:B3:1707:G:O2'	35:BP:81:LYS:HD3	1.89	0.42
18:B3:1787:C:C2	18:B3:2883:A:H8	2.20	0.42
18:B3:1807:U:C5'	18:B3:2885:A:O4'	2.52	0.42
35:BP:114:ILE:HD12	35:BP:114:ILE:HA	1.98	0.42
35:BP:116:LYS:HA	35:BP:119:TYR:HD1	1.79	0.42
35:BP:137:LEU:C	35:BP:137:LEU:HD23	2.40	0.42
18:B3:2734:G:P	35:BP:79:LYS:HD3	2.59	0.42
18:B3:925:C:H4'	41:BV:28:PRO:CB	2.36	0.42
20:BA:154:THR:CB	20:BA:160:LYS:H	2.31	0.42
18:B3:2166:G:C6	20:BA:60:ARG:C	2.93	0.42
10:AJ:74:GLU:O	14:AN:38:CYS:CB	2.58	0.42
1:AA:618:C:OP2	5:AD:141:VAL:HA	2.18	0.42
8:AH:23:GLN:HG2	8:AH:24:VAL:N	2.33	0.42
8:AH:6:LEU:CD2	8:AH:125:LEU:HB3	2.49	0.42
37:BR:115:THR:O	37:BR:115:THR:HG23	2.19	0.42
37:BR:25:CYS:CB	37:BR:31:ALA:HB1	2.49	0.42
27:BH:106:LYS:HG3	27:BH:107:ASP:N	2.35	0.42
27:BH:124:ARG:HH11	27:BH:125:ASN:N	2.17	0.42
27:BH:33:THR:CG2	27:BH:34:LEU:N	2.82	0.42
27:BH:23:ARG:HB3	27:BH:45:PHE:CG	2.55	0.42
27:BH:47:LYS:N	27:BH:55:VAL:HG21	2.29	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:72:LYS:NZ	27:BH:72:LYS:HB3	2.34	0.42
27:BH:96:HIS:C	27:BH:97:PHE:CD1	2.92	0.42
18:B3:1228:C:O3'	32:BM:47:PHE:HD2	1.83	0.42
1:AA:143:A:O4'	1:AA:199:G:H2'	2.18	0.42
1:AA:1068:G:O5'	1:AA:1388:C:C5'	2.67	0.42
35:BP:8:ARG:HH22	35:BP:18:LYS:CD	2.33	0.42
43:BW:10:GLU:CG	43:BW:69:ARG:CG	2.94	0.42
18:B3:2853:U:C5'	22:BC:170:LEU:CG	2.56	0.42
1:AA:21:G:C5'	1:AA:884:U:O4'	2.67	0.42
6:AE:164:VAL:CG1	6:AE:209:THR:HG22	2.50	0.42
41:BV:90:LEU:HD13	41:BV:96:GLU:CD	2.39	0.42
1:AA:1482:G:H4'	18:B3:1989:G:H4'	2.01	0.42
1:AA:1483:A:O2'	18:B3:1988:C:C2	2.73	0.42
18:B3:1829:A:H2	47:B9:17:TYR:CD2	1.90	0.42
31:BL:177:HIS:CD2	31:BL:178:LYS:N	2.87	0.42
18:B3:1811:A:N6	18:B3:2730:G:C2	2.87	0.42
18:B3:2626:C:H2'	18:B3:2627:G:C8	2.54	0.42
20:BA:124:LEU:CD1	20:BA:124:LEU:N	2.82	0.42
1:AA:625:G:O2'	1:AA:626:U:H5'	2.19	0.42
1:AA:742:G:H5'	15:AO:113:ARG:HD2	0.86	0.42
18:B3:45:A:H5'	18:B3:45:A:C8	2.53	0.42
18:B3:45:A:H5'	18:B3:45:A:H8	1.83	0.42
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.54	0.42
31:BL:175:LYS:HA	31:BL:175:LYS:CE	2.49	0.42
1:AA:1067:A:C4'	1:AA:1387:G:H4'	2.49	0.42
18:B3:1369:A:C4'	33:BN:64:SER:N	2.68	0.42
30:BK:22:VAL:HG22	30:BK:23:GLY:H	1.84	0.42
5:AD:61:THR:CG2	5:AD:62:ARG:N	2.82	0.42
2:AT:633:ILE:HD12	2:AT:635:CYS:N	2.34	0.42
40:BU:87:LYS:CD	40:BU:88:GLU:N	2.82	0.42
29:BJ:6:ASN:N	29:BJ:7:PRO:HD2	2.34	0.42
2:AT:216:HIS:HB3	2:AT:218:TRP:HD1	1.84	0.42
12:AL:29:TYR:HB3	12:AL:30:LYS:NZ	2.34	0.42
1:AA:584:G:H2'	1:AA:585:G:C8	2.53	0.42
19:B4:72:C:O2'	19:B4:73:G:H5'	2.18	0.42
31:BL:182:THR:O	31:BL:182:THR:HG23	2.19	0.42
20:BA:71:ALA:O	20:BA:72:PHE:HB3	2.19	0.42
15:AO:116:LEU:N	15:AO:116:LEU:HD12	2.33	0.42
13:AM:21:ASN:HD21	13:AM:35:ILE:HG23	1.85	0.42
17:AS:85:ILE:CG2	17:AS:116:LEU:HD21	2.38	0.42
18:B3:882:A:H4'	45:BY:2:LYS:CB	2.43	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:43:ARG:CZ	42:B0:44:ARG:N	2.83	0.42
7:AG:107:LEU:HD21	7:AG:108:LYS:HZ3	1.84	0.42
9:AI:68:VAL:HB	9:AI:80:ILE:HD11	2.00	0.42
9:AI:88:LEU:HG	9:AI:88:LEU:O	2.19	0.42
18:B3:2329:C:OP1	19:B4:46:C:C4'	2.68	0.42
19:B4:3:A:H62	19:B4:25:G:H1	1.66	0.42
24:BE:105:ILE:CG2	24:BE:106:ALA:N	2.82	0.42
24:BE:206:GLN:HG3	24:BE:209:GLU:OE2	2.18	0.42
36:BQ:42:ILE:CA	36:BQ:95:HIS:CE1	3.02	0.42
36:BQ:92:ARG:HB3	36:BQ:94:GLU:HB3	2.01	0.42
1:AA:337:C:H2'	1:AA:338:A:H8	1.83	0.42
33:BN:42:LYS:O	33:BN:46:TYR:HB2	2.19	0.42
33:BN:57:ILE:O	33:BN:57:ILE:HG13	2.20	0.42
18:B3:1309:U:OP2	23:BD:203:GLY:C	2.46	0.42
18:B3:449:A:C2	18:B3:1348:A:N1	2.81	0.42
18:B3:449:A:C5'	18:B3:1306:U:H1'	2.33	0.42
18:B3:517:U:C1'	18:B3:1319:G:N2	2.81	0.42
23:BD:133:LEU:HA	23:BD:133:LEU:HD12	1.87	0.42
23:BD:174:HIS:CA	23:BD:177:LEU:CD1	2.95	0.42
34:BO:133:LYS:C	34:BO:133:LYS:HD2	2.40	0.42
34:BO:81:VAL:HB	34:BO:140:LEU:CD1	2.45	0.42
18:B3:1360:C:C1'	23:BD:88:ALA:N	2.82	0.42
31:BL:82:LYS:HZ3	46:BZ:48:GLY:CA	1.89	0.42
45:BY:15:HIS:CD2	45:BY:24:ARG:CG	2.98	0.42
18:B3:1181:A:C4'	30:BK:109:ILE:HG12	2.44	0.42
30:BK:18:VAL:CG1	30:BK:19:GLY:N	2.82	0.42
18:B3:1184:A:P	30:BK:85:LEU:HD11	2.59	0.42
47:B9:30:ILE:HG23	47:B9:31:GLN:N	2.33	0.42
47:B9:47:LYS:HZ2	47:B9:48:ARG:H	1.66	0.42
21:BB:187:LYS:N	21:BB:187:LYS:HE2	2.34	0.42
21:BB:22:ARG:CD	21:BB:22:ARG:N	2.83	0.42
18:B3:696:C:O2'	18:B3:731:U:OP1	2.34	0.42
41:BV:62:LYS:HD2	41:BV:63:GLN:N	2.35	0.42
25:BF:131:PRO:HB3	25:BF:228:PHE:CZ	2.54	0.42
25:BF:147:VAL:HG11	25:BF:184:ILE:CG2	2.49	0.42
25:BF:151:GLY:CA	25:BF:162:LEU:HD11	2.48	0.42
25:BF:172:LEU:HD13	25:BF:173:GLY:CA	2.49	0.42
16:AQ:111:SER:HB2	16:AQ:112:PRO:CD	2.38	0.42
39:BT:59:TYR:CG	39:BT:60:LYS:N	2.86	0.42
44:BX:11:THR:CG2	44:BX:12:LYS:N	2.82	0.42
44:BX:45:LYS:HZ1	44:BX:46:THR:HA	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:631:A:C6	18:B3:2074:A:H5'	2.53	0.42
18:B3:2847:G:O2'	18:B3:2848:G:H5'	2.19	0.42
22:BC:199:GLU:O	22:BC:200:LYS:HB2	2.20	0.42
18:B3:2652:U:O2'	22:BC:257:ALA:N	2.52	0.42
22:BC:48:TYR:CG	22:BC:335:VAL:HA	2.51	0.42
18:B3:2502:C:H1'	28:BI:157:TYR:CE1	2.54	0.42
18:B3:968:G:C4'	28:BI:35:ASP:CG	2.88	0.42
28:BI:38:LYS:HD2	28:BI:38:LYS:C	2.39	0.42
28:BI:58:GLU:HB2	28:BI:128:ARG:CA	2.49	0.42
28:BI:98:ARG:O	28:BI:98:ARG:HG2	2.19	0.42
37:BR:17:LEU:N	37:BR:17:LEU:HD22	2.34	0.42
37:BR:15:LEU:CD1	37:BR:53:SER:HB2	2.43	0.42
26:BG:120:SER:N	26:BG:188:LEU:CD1	2.82	0.42
26:BG:135:LEU:HD13	26:BG:135:LEU:C	2.40	0.42
31:BL:102:GLU:HB2	31:BL:116:ASN:ND2	2.34	0.42
18:B3:1705:C:O3'	18:B3:2736:U:OP2	2.36	0.42
18:B3:1806:G:C4'	18:B3:2884:G:N2	2.82	0.42
18:B3:2739:A:OP2	35:BP:60:SER:CA	2.67	0.42
38:BS:49:ILE:CD1	38:BS:49:ILE:H	2.27	0.42
18:B3:2338:G:P	29:BJ:122:PHE:H	2.36	0.42
29:BJ:14:GLU:HG2	29:BJ:15:LYS:HZ2	1.83	0.42
29:BJ:36:LEU:CB	29:BJ:67:HIS:NE2	2.83	0.42
29:BJ:91:ARG:CD	29:BJ:159:VAL:CG2	2.94	0.42
20:BA:102:LYS:O	20:BA:105:LYS:HG2	2.19	0.42
39:BT:70:THR:CG2	39:BT:71:ALA:N	2.82	0.42
14:AN:23:CYS:SG	14:AN:37:ILE:CG1	3.08	0.42
14:AN:23:CYS:SG	14:AN:37:ILE:HD12	2.59	0.42
1:AA:860:A:C4'	3:AB:133:LYS:NZ	2.83	0.42
8:AH:39:VAL:CG1	8:AH:40:MET:N	2.82	0.42
8:AH:70:LYS:CG	8:AH:71:CYS:H	2.33	0.42
12:AL:117:ILE:HD11	12:AL:120:VAL:HG21	2.01	0.42
1:AA:69:G:OP2	1:AA:172:A:H3'	2.19	0.42
37:BR:34:LEU:HB2	37:BR:61:THR:O	2.19	0.42
1:AA:1374:A:O3'	7:AG:98:MET:HB3	2.19	0.42
18:B3:1142:C:O2'	18:B3:1143:G:H5'	2.19	0.42
27:BH:161:LEU:HA	27:BH:164:ILE:HG12	1.99	0.42
27:BH:47:LYS:HG3	27:BH:48:VAL:N	2.33	0.42
27:BH:59:ASN:HB3	27:BH:64:HIS:CD2	2.54	0.42
27:BH:94:TYR:CE2	27:BH:99:ILE:HB	2.54	0.42
32:BM:55:ASP:N	32:BM:58:ARG:CB	2.82	0.42
35:BP:22:TRP:CE3	35:BP:50:VAL:C	2.93	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:109:LEU:HD23	40:BU:110:HIS:H	1.80	0.42
1:AA:404:U:H3	5:AD:26:ALA:HB3	1.84	0.42
41:BV:118:PRO:HG2	41:BV:119:ASN:H	1.85	0.42
41:BV:126:ALA:CA	41:BV:146:LEU:CG	2.95	0.42
41:BV:135:GLU:CB	41:BV:136:LYS:HD2	2.50	0.42
41:BV:144:VAL:CG1	41:BV:145:GLU:N	2.82	0.42
1:AA:120:A:N1	1:AA:238:G:N2	2.57	0.42
1:AA:119:A:O5'	1:AA:122:G:C5	2.48	0.42
15:AO:94:ALA:HA	15:AO:117:ILE:HD11	2.01	0.42
40:BU:17:LYS:HB2	40:BU:17:LYS:NZ	2.33	0.42
18:B3:243:A:H61	18:B3:269:G:H1'	1.83	0.42
18:B3:219:G:OP1	46:BZ:41:ARG:CZ	2.66	0.42
11:AK:30:THR:HG1	11:AK:35:LYS:C	2.22	0.42
21:BB:201:VAL:CB	21:BB:216:GLN:HE22	2.32	0.42
22:BC:59:LEU:HD12	22:BC:66:PHE:HB2	1.96	0.42
32:BM:91:THR:CG2	32:BM:92:ALA:N	2.82	0.42
18:B3:1170:U:O2'	18:B3:1172:G:N7	2.35	0.42
18:B3:1173:A:P	30:BK:40:LYS:HZ3	2.41	0.42
24:BE:223:PHE:CD1	24:BE:224:LYS:N	2.88	0.42
31:BL:6:LEU:HD12	31:BL:44:PRO:HD2	1.95	0.42
2:AT:197:LEU:N	2:AT:197:LEU:HD12	2.34	0.42
18:B3:2909:G:H2'	18:B3:2910:A:H8	1.83	0.42
8:AH:92:LEU:C	8:AH:94:PRO:HD3	2.39	0.42
2:AT:32:LYS:O	2:AT:36:THR:HG23	2.20	0.42
2:AT:325:ARG:O	2:AT:329:PRO:HG3	2.19	0.42
1:AA:1221:G:N7	17:AS:79:HIS:CB	2.81	0.42
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.55	0.42
1:AA:987:G:H2'	1:AA:1014:A:C8	2.54	0.42
13:AM:17:LEU:CD1	13:AM:17:LEU:N	2.82	0.42
1:AA:1299:A:C4'	13:AM:26:ILE:CG1	2.82	0.42
1:AA:1329:A:H2'	13:AM:90:ASN:HD21	1.83	0.42
17:AS:90:ILE:HA	17:AS:107:ILE:HG13	2.00	0.42
18:B3:1689:A:C2	33:BN:128:THR:CA	3.02	0.42
42:B0:41:VAL:CA	42:B0:44:ARG:HH21	2.31	0.42
9:AI:106:LYS:CG	9:AI:107:ALA:N	2.82	0.42
9:AI:21:VAL:CG1	9:AI:22:LYS:N	2.83	0.42
9:AI:18:VAL:HG21	9:AI:67:ARG:HB3	2.01	0.42
1:AA:1249:C:N1	9:AI:73:HIS:CE1	2.87	0.42
9:AI:92:HIS:HB2	9:AI:95:TYR:HD2	1.82	0.42
10:AJ:27:THR:HB	10:AJ:88:LYS:CE	2.49	0.42
24:BE:200:PHE:CD1	24:BE:202:GLY:N	2.80	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:21:ARG:HA	24:BE:21:ARG:CZ	2.49	0.42
24:BE:107:ARG:CB	24:BE:226:TYR:HE1	2.28	0.42
36:BQ:63:VAL:O	36:BQ:63:VAL:HG23	2.18	0.42
36:BQ:85:LEU:N	36:BQ:85:LEU:CD1	2.83	0.42
33:BN:69:THR:CG2	33:BN:70:ALA:N	2.82	0.42
23:BD:238:ALA:HA	23:BD:239:PRO:HD2	1.81	0.42
23:BD:7:VAL:CG1	23:BD:17:ASN:N	2.82	0.42
34:BO:45:ASN:CA	34:BO:48:VAL:HG12	2.50	0.42
34:BO:73:GLN:HB2	34:BO:73:GLN:HE21	1.55	0.42
23:BD:61:ALA:HB2	23:BD:83:ARG:NH2	2.33	0.42
23:BD:97:ARG:HG2	23:BD:98:MET:N	2.34	0.42
31:BL:79:THR:CG2	31:BL:80:TYR:N	2.83	0.42
45:BY:31:LYS:N	45:BY:31:LYS:CD	2.83	0.42
18:B3:1894:C:N4	18:B3:1939:U:H2'	2.34	0.42
47:B9:22:ARG:NE	47:B9:22:ARG:N	2.68	0.42
47:B9:26:LYS:N	47:B9:28:LEU:HD12	2.34	0.42
47:B9:50:ALA:O	47:B9:53:ILE:HG22	2.19	0.42
21:BB:226:ARG:CG	21:BB:227:GLY:N	2.82	0.42
25:BF:117:LYS:CD	25:BF:118:VAL:N	2.82	0.42
25:BF:82:LEU:HD11	25:BF:188:ILE:HG12	2.01	0.42
18:B3:1055:G:OP1	28:BI:98:ARG:CG	2.59	0.42
18:B3:2722:G:O5'	37:BR:94:TYR:CE2	2.68	0.42
18:B3:2820:A:H8	22:BC:101:LEU:N	2.17	0.42
22:BC:16:LEU:HB3	22:BC:17:PRO:CA	2.42	0.42
22:BC:232:TRP:CG	22:BC:232:TRP:O	2.72	0.42
22:BC:248:VAL:CG1	22:BC:249:ALA:N	2.82	0.42
22:BC:83:VAL:O	22:BC:202:VAL:HG22	2.18	0.42
28:BI:38:LYS:HD3	28:BI:40:LYS:CD	2.49	0.42
18:B3:2245:C:OP2	31:BL:27:TRP:CH2	2.72	0.42
18:B3:263:U:H4'	26:BG:161:LEU:CD1	2.46	0.42
26:BG:203:ARG:CZ	26:BG:207:GLU:CB	2.97	0.42
26:BG:214:VAL:CG2	26:BG:215:SER:N	2.82	0.42
26:BG:115:VAL:CG2	26:BG:214:VAL:N	2.82	0.42
31:BL:47:ALA:HB3	31:BL:48:ARG:HH12	1.82	0.42
18:B3:166:A:C5'	41:BV:35:GLY:H	2.32	0.42
18:B3:2335:C:H2'	18:B3:2336:G:C8	2.55	0.42
20:BA:109:ALA:HB2	20:BA:161:LYS:H	1.84	0.42
20:BA:162:VAL:CG1	20:BA:163:LEU:N	2.82	0.42
4:AC:41:THR:CG2	4:AC:42:PRO:N	2.77	0.42
3:AB:67:PRO:HB2	3:AB:183:LEU:HD22	1.99	0.42
5:AD:95:TYR:HD1	5:AD:102:GLU:OE1	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:13:ILE:HB	8:AH:77:ARG:CZ	2.50	0.42
1:AA:169:C:O2'	1:AA:170:U:H5'	2.19	0.42
1:AA:64:G:H5''	1:AA:97:G:OP2	2.19	0.42
41:BV:20:ARG:NH1	41:BV:20:ARG:HA	2.28	0.42
1:AA:1346:A:H5'	9:AI:134:ARG:CZ	2.37	0.42
18:B3:1103:C:HO2'	18:B3:1104:C:H5'	1.84	0.42
27:BH:150:SER:O	27:BH:154:VAL:HG22	2.19	0.42
27:BH:163:GLN:C	27:BH:165:CYS:H	2.23	0.42
27:BH:165:CYS:O	27:BH:167:VAL:HG13	2.19	0.42
27:BH:165:CYS:CB	27:BH:178:GLY:HA2	2.50	0.42
27:BH:46:THR:HA	27:BH:55:VAL:CB	2.48	0.42
32:BM:17:ARG:CZ	32:BM:17:ARG:N	2.83	0.42
46:BZ:8:LYS:CG	46:BZ:9:THR:N	2.80	0.42
40:BU:58:VAL:CG2	40:BU:103:LYS:HE2	2.49	0.42
1:AA:500:G:P	1:AA:546:G:H1	2.05	0.42
18:B3:700:A:C8	41:BV:78:TRP:NE1	2.63	0.42
18:B3:1199:A:H2'	18:B3:1200:A:C8	2.55	0.42
1:AA:111:G:N3	1:AA:389:A:H5''	2.28	0.42
46:BZ:37:GLN:HA	46:BZ:40:ARG:HG2	2.00	0.42
11:AK:90:THR:CG2	11:AK:91:LYS:N	2.82	0.42
21:BB:4:ILE:CG2	21:BB:208:HIS:CD2	2.99	0.42
21:BB:2:ARG:O	21:BB:4:ILE:HD12	2.19	0.42
20:BA:90:LEU:CD2	20:BA:123:LEU:CB	2.94	0.42
22:BC:211:ASN:CB	22:BC:350:LEU:N	2.83	0.42
32:BM:90:LYS:CG	32:BM:91:THR:N	2.83	0.42
22:BC:295:THR:CG2	22:BC:296:SER:N	2.81	0.42
22:BC:143:ILE:HG23	22:BC:147:LEU:HD13	1.99	0.42
11:AK:118:THR:HA	11:AK:119:PRO:HD3	1.78	0.42
18:B3:1739:G:O2'	18:B3:1740:U:H5'	2.18	0.42
1:AA:1288:A:O4'	1:AA:1353:G:H4'	2.19	0.42
6:AE:124:ILE:CG2	6:AE:125:ARG:N	2.82	0.42
18:B3:2151:G:C4'	18:B3:2152:C:OP2	2.67	0.42
24:BE:123:GLU:CG	24:BE:124:GLU:N	2.83	0.42
20:BA:100:ILE:CG2	20:BA:101:LYS:N	2.82	0.42
1:AA:502:G:H2'	1:AA:503:C:H6	1.84	0.42
28:BI:82:ARG:O	28:BI:82:ARG:HG3	2.18	0.42
33:BN:6:THR:CG2	33:BN:7:SER:N	2.82	0.42
1:AA:1157:A:O4'	1:AA:1158:C:C2	2.72	0.42
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.19	0.42
1:AA:975:A:H4'	1:AA:976:G:OP2	2.18	0.42
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2004:U:H2'	18:B3:2005:G:OP1	2.20	0.42
10:AJ:81:THR:O	10:AJ:81:THR:HG23	2.19	0.42
2:AT:254:THR:O	2:AT:255:LYS:HB2	2.19	0.42
3:AB:16:LEU:C	3:AB:18:ALA:H	2.22	0.42
2:AT:37:ASP:O	2:AT:41:GLN:HG3	2.19	0.42
2:AT:299:LEU:HA	2:AT:299:LEU:HD12	1.92	0.42
1:AA:951:G:C6	1:AA:1231:G:C6	3.07	0.42
1:AA:1300:G:C5'	13:AM:30:TYR:CD2	3.01	0.42
1:AA:1300:G:O2'	1:AA:1301:U:C6	2.69	0.42
1:AA:1329:A:C1'	13:AM:90:ASN:HD22	2.32	0.42
13:AM:96:LYS:HB2	13:AM:96:LYS:HE3	1.85	0.42
18:B3:629:A:H8	42:B0:39:ASP:HB2	1.84	0.42
1:AA:1180:A:C5'	9:AI:117:ILE:HD11	2.40	0.42
1:AA:1290:G:H4'	7:AG:108:LYS:HZ2	1.84	0.42
9:AI:49:GLU:HG3	9:AI:113:ARG:NH2	2.35	0.42
19:B4:50:G:H5''	24:BE:91:GLY:O	2.19	0.42
24:BE:115:LEU:CD2	24:BE:116:ASP:N	2.81	0.42
19:B4:38:A:OP2	24:BE:155:THR:HG21	2.19	0.42
36:BQ:32:LYS:HZ3	36:BQ:97:LYS:HE2	1.83	0.42
18:B3:449:A:H5''	23:BD:195:ASN:OD1	2.19	0.42
18:B3:23:G:H1'	18:B3:520:A:N6	2.35	0.42
18:B3:710:G:O4'	34:BO:44:PHE:HE2	2.03	0.42
23:BD:25:PHE:CE1	23:BD:128:THR:HB	2.48	0.42
23:BD:160:LYS:HE2	23:BD:163:GLU:N	2.34	0.42
23:BD:171:VAL:CG2	23:BD:172:GLY:N	2.82	0.42
18:B3:1342:C:H42	23:BD:186:LEU:HB3	1.83	0.42
23:BD:205:LEU:CG	23:BD:206:VAL:H	2.15	0.42
34:BO:102:ALA:HB1	34:BO:124:LEU:CB	2.49	0.42
18:B3:119:A:H2'	18:B3:120:A:H5''	2.02	0.42
23:BD:76:VAL:CG1	23:BD:77:GLY:N	2.82	0.42
18:B3:1181:A:H2'	30:BK:104:ILE:O	2.18	0.42
47:B9:38:CYS:SG	47:B9:61:LYS:CD	3.07	0.42
47:B9:56:CYS:HA	47:B9:61:LYS:HD3	2.02	0.42
21:BB:111:ILE:CG2	21:BB:132:TYR:CB	2.93	0.42
25:BF:117:LYS:CE	25:BF:118:VAL:N	2.82	0.42
18:B3:1286:A:OP2	25:BF:155:ILE:CG2	2.58	0.42
25:BF:177:ILE:CG2	25:BF:182:ASP:CB	2.94	0.42
18:B3:68:U:C2	44:BX:57:VAL:HG23	2.54	0.42
18:B3:1735:C:H2'	18:B3:1736:A:C8	2.54	0.42
18:B3:1742:A:O5'	18:B3:2723:G:H4'	2.17	0.42
22:BC:176:HIS:CE1	22:BC:335:VAL:CG2	3.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:189:GLU:O	22:BC:192:ASP:HB3	2.19	0.42
22:BC:75:VAL:HG12	22:BC:324:LYS:HA	2.02	0.42
22:BC:304:ILE:CD1	22:BC:358:ILE:HD13	2.49	0.42
22:BC:55:ILE:CG1	22:BC:56:VAL:N	2.82	0.42
28:BI:68:ALA:HB2	28:BI:158:LYS:HB3	2.00	0.42
37:BR:46:LEU:CD1	37:BR:46:LEU:H	2.32	0.42
37:BR:95:PHE:CD1	38:BS:21:PHE:CG	3.08	0.42
18:B3:2258:A:H1'	18:B3:2259:C:OP2	2.19	0.42
26:BG:109:THR:CA	26:BG:118:GLY:HA3	2.50	0.42
26:BG:119:LYS:HD3	26:BG:119:LYS:N	2.34	0.42
26:BG:115:VAL:CG1	26:BG:213:LEU:HB3	2.48	0.42
31:BL:147:TYR:C	31:BL:150:ILE:HD12	2.40	0.42
31:BL:173:ILE:C	31:BL:173:ILE:HD12	2.40	0.42
18:B3:1706:G:H1'	18:B3:1712:A:H61	1.85	0.42
18:B3:1786:C:C5	18:B3:2883:A:H4'	2.50	0.42
18:B3:166:A:H62	41:BV:28:PRO:CA	2.32	0.42
29:BJ:23:GLY:H	29:BJ:64:ILE:CD1	2.19	0.42
18:B3:2214:A:O2'	20:BA:106:LYS:CB	2.57	0.42
20:BA:15:GLU:O	20:BA:19:TYR:HD2	2.02	0.42
3:AB:120:VAL:HG12	3:AB:142:VAL:HA	2.01	0.42
3:AB:171:LEU:HD23	3:AB:171:LEU:C	2.39	0.42
5:AD:127:VAL:HG23	5:AD:128:LEU:N	2.34	0.42
1:AA:449:C:H5''	5:AD:132:ARG:HD3	1.50	0.42
5:AD:99:LEU:C	5:AD:99:LEU:HD13	2.40	0.42
8:AH:10:LEU:CB	8:AH:77:ARG:HD2	2.49	0.42
1:AA:599:C:C5'	8:AH:121:SER:HB2	2.44	0.42
12:AL:56:LYS:NZ	12:AL:94:ASN:HD21	2.17	0.42
18:B3:165:A:C5'	41:BV:31:ARG:N	2.55	0.42
27:BH:153:ASP:HA	27:BH:156:GLN:OE1	2.20	0.42
27:BH:24:ILE:CG1	27:BH:25:VAL:N	2.82	0.42
27:BH:82:VAL:CG1	27:BH:83:THR:N	2.82	0.42
32:BM:52:LYS:HG3	32:BM:52:LYS:O	2.18	0.42
32:BM:79:PHE:H	32:BM:79:PHE:HD1	1.68	0.42
32:BM:9:ASP:OD1	32:BM:117:VAL:HA	2.19	0.42
35:BP:37:ARG:HD2	35:BP:37:ARG:H	1.85	0.42
18:B3:1501:A:P	35:BP:37:ARG:HD3	2.60	0.42
35:BP:40:ILE:CG2	35:BP:41:ARG:CZ	2.98	0.42
43:BW:29:PRO:O	43:BW:33:LYS:HG2	2.20	0.42
18:B3:2382:A:N9	46:BZ:10:TYR:CD2	2.86	0.42
18:B3:2459:G:O3'	46:BZ:66:LYS:HE3	2.19	0.42
40:BU:33:ALA:CB	40:BU:104:LEU:CD2	2.95	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:906:C:P	18:B3:1329:A:H4'	2.48	0.42
1:AA:406:G:H2'	1:AA:407:G:H8	1.85	0.42
1:AA:499:A:N6	5:AD:20:GLU:O	2.51	0.42
41:BV:117:ILE:HG21	41:BV:137:ILE:HD11	2.00	0.42
41:BV:127:ARG:CG	41:BV:128:PHE:H	2.21	0.42
41:BV:135:GLU:HB3	41:BV:136:LYS:CD	2.50	0.42
1:AA:124:G:H1'	1:AA:290:C:H4'	1.01	0.42
42:B0:62:LYS:O	42:B0:62:LYS:HD2	2.20	0.42
18:B3:2396:C:H2'	41:BV:46:LYS:HE2	1.98	0.42
18:B3:1526:A:O4'	18:B3:1527:A:C5	2.72	0.42
18:B3:1529:G:C5'	21:BB:69:ARG:NH1	2.72	0.42
32:BM:88:SER:HA	32:BM:90:LYS:HZ2	1.85	0.42
1:AA:303:A:H1'	1:AA:556:C:H4'	2.00	0.42
42:B0:111:ARG:HE	42:B0:113:LYS:CD	2.33	0.42
7:AG:210:ILE:CD1	7:AG:210:ILE:N	2.82	0.42
30:BK:133:LEU:O	30:BK:137:GLN:HG3	2.18	0.42
18:B3:1150:A:H4'	18:B3:1151:G:OP2	2.19	0.42
1:AA:1053:G:O2'	1:AA:1199:U:H5	2.02	0.42
43:BW:43:MET:CE	43:BW:43:MET:CA	2.95	0.42
4:AC:69:THR:CG2	4:AC:70:LEU:N	2.82	0.42
18:B3:1516:C:H2'	18:B3:1517:U:C6	2.54	0.42
12:AL:57:LEU:HB2	12:AL:71:CYS:SG	2.59	0.42
1:AA:1186:G:H4'	9:AI:127:LYS:HE2	2.01	0.42
18:B3:1457:U:O2'	18:B3:1458:A:H5'	2.20	0.42
1:AA:1306:A:H2'	1:AA:1307:U:O4'	2.10	0.42
13:AM:42:TYR:O	13:AM:46:VAL:HG23	2.20	0.42
1:AA:958:A:H2	17:AS:102:PHE:CD1	2.14	0.42
19:B4:46:C:O2'	24:BE:152:ARG:HB2	1.89	0.42
18:B3:960:G:C2	19:B4:68:G:OP1	2.73	0.42
24:BE:55:PHE:CE1	24:BE:151:GLN:NE2	2.88	0.42
19:B4:47:A:OP1	24:BE:151:GLN:OE1	2.38	0.42
24:BE:211:LEU:O	24:BE:212:ALA:HB2	2.19	0.42
24:BE:49:TYR:OH	24:BE:64:ILE:HG13	2.20	0.42
18:B3:502:A:H5''	33:BN:10:PRO:CB	2.49	0.42
33:BN:110:LYS:N	33:BN:110:LYS:HD2	2.34	0.42
34:BO:116:LYS:CG	34:BO:117:ALA:N	2.80	0.42
34:BO:45:ASN:HA	34:BO:48:VAL:HG12	2.00	0.42
23:BD:61:ALA:HB2	23:BD:83:ARG:HH22	1.84	0.42
45:BY:32:THR:O	45:BY:33:CYS:CB	2.68	0.42
45:BY:18:CYS:SG	45:BY:38:TYR:CE2	3.09	0.42
18:B3:795:G:H22	18:B3:817:G:H2'	1.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:82:HIS:HB3	21:BB:83:THR:H	1.70	0.42
25:BF:105:LEU:HB3	25:BF:107:LEU:HD11	1.99	0.42
25:BF:174:LYS:CB	25:BF:198:ASN:HA	2.32	0.42
16:AQ:108:VAL:HG12	16:AQ:109:HIS:N	2.34	0.42
44:BX:9:LEU:CD1	44:BX:53:CYS:SG	3.08	0.42
18:B3:2672:C:H5'	22:BC:31:PHE:CE1	2.55	0.42
22:BC:190:LYS:HA	22:BC:190:LYS:HD3	1.56	0.42
22:BC:223:HIS:NE2	22:BC:269:ARG:CD	2.82	0.42
22:BC:243:ARG:N	22:BC:243:ARG:CD	2.82	0.42
22:BC:18:ARG:NH1	22:BC:271:TYR:CE2	2.86	0.42
22:BC:83:VAL:CG1	22:BC:84:VAL:N	2.82	0.42
18:B3:1056:U:H3'	28:BI:109:ASP:H	1.85	0.42
28:BI:147:VAL:CG1	28:BI:148:VAL:N	2.82	0.42
28:BI:44:ASP:O	28:BI:46:PHE:CD2	2.72	0.42
28:BI:70:ILE:CD1	28:BI:74:LYS:CD	2.95	0.42
18:B3:155:C:H1'	31:BL:163:LEU:HD23	2.01	0.42
31:BL:122:GLN:HB2	31:BL:127:LYS:HA	2.02	0.42
31:BL:148:ASN:O	31:BL:149:TRP:CG	2.72	0.42
18:B3:1806:G:O4'	18:B3:2874:G:O2'	2.38	0.42
18:B3:1708:C:C5'	35:BP:87:ARG:HD3	2.43	0.42
41:BV:25:ARG:H	41:BV:25:ARG:HE	1.65	0.42
29:BJ:34:LYS:CG	29:BJ:35:VAL:N	2.82	0.42
4:AC:40:VAL:CG2	4:AC:41:THR:N	2.83	0.42
3:AB:174:TYR:CD1	3:AB:175:LEU:N	2.87	0.42
3:AB:47:ILE:HG13	3:AB:47:ILE:O	2.19	0.42
1:AA:620:C:H3'	5:AD:143:ILE:CG1	2.49	0.42
5:AD:87:SER:N	5:AD:93:LEU:CD1	2.82	0.42
5:AD:96:VAL:CG1	5:AD:97:LEU:N	2.82	0.42
5:AD:90:LYS:HZ1	6:AE:171:ALA:HB1	1.85	0.42
1:AA:860:A:C4'	8:AH:18:LYS:NZ	2.81	0.42
8:AH:26:ILE:CG2	8:AH:27:ARG:N	2.82	0.42
1:AA:552:U:P	12:AL:107:PHE:HA	2.60	0.42
18:B3:1993:C:C4	18:B3:1994:A:C6	3.08	0.42
18:B3:1116:U:H1'	18:B3:1225:C:H3'	1.08	0.42
18:B3:1116:U:H3	18:B3:1246:A:H62	1.65	0.42
27:BH:20:ILE:HD12	27:BH:25:VAL:CG2	2.49	0.42
35:BP:41:ARG:HD3	35:BP:41:ARG:HA	1.25	0.42
35:BP:9:LEU:HD22	35:BP:12:SER:HB2	1.98	0.42
43:BW:68:TYR:CD2	43:BW:69:ARG:HB2	2.52	0.42
43:BW:7:VAL:CG1	43:BW:8:THR:N	2.82	0.42
46:BZ:26:GLN:O	46:BZ:26:GLN:HG3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2457:U:H4'	46:BZ:83:THR:N	2.34	0.42
40:BU:103:LYS:HD3	40:BU:104:LEU:N	2.35	0.42
40:BU:104:LEU:HD23	40:BU:104:LEU:N	2.35	0.42
40:BU:23:PRO:HD2	40:BU:26:GLN:HB2	1.98	0.42
18:B3:99:A:N1	40:BU:27:ARG:HD2	2.34	0.42
2:AT:391:LYS:HD3	2:AT:391:LYS:HA	1.88	0.42
41:BV:101:ILE:HG22	41:BV:103:THR:N	2.34	0.42
41:BV:86:ARG:CD	41:BV:86:ARG:N	2.82	0.42
1:AA:1503:A:OP1	1:AA:1531:A:C1'	2.65	0.42
1:AA:1505:G:C8	1:AA:1506:U:C1'	3.02	0.42
1:AA:120:A:C4	1:AA:122:G:C6	3.07	0.42
1:AA:119:A:H2	1:AA:238:G:C4	2.34	0.42
18:B3:218:C:H41	41:BV:54:LYS:HZ1	1.68	0.42
11:AK:42:THR:CG2	11:AK:58:ALA:CB	2.91	0.42
18:B3:2627:G:H2'	18:B3:2628:U:C6	2.54	0.42
21:BB:215:HIS:CG	21:BB:216:GLN:N	2.88	0.42
18:B3:369:G:C2	18:B3:370:G:C8	3.07	0.42
34:BO:104:LEU:CD2	34:BO:105:ARG:N	2.81	0.42
22:BC:166:ARG:CG	22:BC:167:LYS:N	2.82	0.42
29:BJ:28:ARG:CG	29:BJ:29:LEU:N	2.82	0.42
22:BC:9:ARG:CD	22:BC:9:ARG:N	2.83	0.42
40:BU:89:LYS:N	40:BU:89:LYS:HE3	2.35	0.42
18:B3:2694:A:C2	18:B3:2702:A:C4	3.07	0.42
33:BN:51:LEU:C	33:BN:51:LEU:HD23	2.38	0.42
7:AG:159:VAL:CG2	7:AG:160:ASP:N	2.83	0.42
27:BH:140:VAL:CG2	27:BH:141:LYS:N	2.82	0.42
2:AT:237:LYS:HA	2:AT:240:MET:HB2	2.01	0.42
1:AA:1044:A:H2'	1:AA:1045:C:O4'	2.20	0.42
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.84	0.42
1:AA:1244:C:O2'	1:AA:1245:A:H5'	2.19	0.42
18:B3:728:C:H2'	18:B3:729:C:C6	2.54	0.42
18:B3:286:U:H2'	18:B3:287:C:C6	2.54	0.42
18:B3:2078:U:O2'	18:B3:2079:G:H5'	2.19	0.42
7:AG:82:ARG:NH1	7:AG:95:SER:HB2	2.34	0.42
18:B3:1236:A:H2'	18:B3:1237:U:O4'	2.20	0.42
2:AT:160:VAL:HG23	2:AT:212:GLY:O	2.20	0.42
18:B3:1363:G:H2'	18:B3:1364:G:C8	2.54	0.42
1:AA:1299:A:N6	13:AM:55:HIS:HD1	2.06	0.42
13:AM:122:HIS:CE1	17:AS:119:PHE:HA	2.55	0.42
17:AS:58:LYS:CG	17:AS:59:LYS:N	2.83	0.42
17:AS:85:ILE:CG2	17:AS:116:LEU:CD1	2.97	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1145:C:O2'	1:AA:1146:A:H8	2.02	0.42
9:AI:18:VAL:CG2	9:AI:67:ARG:CB	2.95	0.42
9:AI:21:VAL:HG12	9:AI:22:LYS:N	2.34	0.42
9:AI:58:LYS:HG3	9:AI:58:LYS:O	2.18	0.42
24:BE:113:LEU:N	24:BE:113:LEU:CD1	2.83	0.42
24:BE:135:VAL:HG12	24:BE:136:GLU:N	2.34	0.42
19:B4:68:G:H4'	24:BE:13:SER:HB3	2.02	0.42
19:B4:36:C:N1	24:BE:181:PRO:CB	2.77	0.42
24:BE:65:ILE:HG22	24:BE:66:SER:O	2.19	0.42
36:BQ:64:VAL:HG23	36:BQ:72:VAL:HG22	2.01	0.42
18:B3:493:U:H4'	33:BN:99:ALA:HB3	1.87	0.42
33:BN:149:VAL:HG23	33:BN:150:THR:N	2.34	0.42
33:BN:39:GLU:HG3	33:BN:41:THR:C	2.40	0.42
18:B3:1315:G:O3'	42:B0:104:ASN:N	2.48	0.42
18:B3:553:G:H5''	42:B0:69:SER:OG	2.18	0.42
23:BD:160:LYS:CE	23:BD:163:GLU:H	2.33	0.42
23:BD:34:VAL:HG23	23:BD:35:HIS:N	2.34	0.42
18:B3:766:A:OP1	23:BD:74:PRO:CB	2.66	0.42
18:B3:1855:G:O6	21:BB:151:SER:N	2.51	0.42
18:B3:1869:A:H1'	21:BB:10:GLY:CA	2.49	0.42
21:BB:111:ILE:CG2	21:BB:167:VAL:N	2.83	0.42
21:BB:124:ALA:O	21:BB:125:LEU:HG	2.20	0.42
18:B3:1286:A:P	25:BF:155:ILE:CA	3.07	0.42
25:BF:174:LYS:HB2	25:BF:198:ASN:HD22	1.84	0.42
19:B4:98:C:H4'	25:BF:222:PHE:CE2	2.54	0.42
25:BF:94:ILE:CB	25:BF:95:PRO:HA	2.47	0.42
1:AA:132:C:O2'	1:AA:133:U:H5'	2.16	0.42
1:AA:190(D):U:H5'	16:AQ:137:ASN:HB3	1.41	0.42
1:AA:252:U:O2'	1:AA:275:G:N2	2.52	0.42
18:B3:106:A:H2'	44:BX:60:GLU:HA	1.99	0.42
1:AA:160:A:H2'	1:AA:161:A:O4'	2.19	0.42
18:B3:2826:G:C1'	22:BC:124:SER:CB	2.98	0.42
22:BC:173:LYS:CE	22:BC:174:LYS:N	2.82	0.42
22:BC:226:GLU:HB2	22:BC:269:ARG:CD	2.49	0.42
22:BC:240:LYS:HB2	22:BC:241:THR:H	1.56	0.42
22:BC:247:LYS:CD	22:BC:247:LYS:N	2.83	0.42
18:B3:2763:G:C4'	37:BR:14:SER:CB	2.71	0.42
26:BG:156:VAL:CG1	26:BG:157:ASP:N	2.82	0.42
26:BG:165:LEU:HB2	26:BG:166:PRO:HD3	2.01	0.42
31:BL:119:TRP:CE3	31:BL:119:TRP:C	2.93	0.42
31:BL:147:TYR:CG	31:BL:147:TYR:O	2.73	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:134:LYS:O	35:BP:138:VAL:HG23	2.19	0.42
35:BP:56:VAL:CG1	35:BP:57:HIS:N	2.82	0.42
18:B3:1674:C:OP2	39:BT:110:ASN:C	2.58	0.42
3:AB:76:SER:HA	3:AB:123:THR:HG22	2.02	0.42
5:AD:131:GLN:HA	5:AD:131:GLN:NE2	2.34	0.42
3:AB:139:ASN:CB	8:AH:69:ASN:OD1	2.68	0.42
1:AA:384:G:H2'	1:AA:385:C:C6	2.54	0.42
1:AA:68:G:H5'	1:AA:172:A:C8	2.53	0.42
9:AI:12:LYS:CG	9:AI:13:LYS:N	2.82	0.42
18:B3:2559:C:C1'	18:B3:2799:A:O4'	2.67	0.42
18:B3:1241:G:O2'	32:BM:85:GLY:HA3	2.19	0.42
27:BH:129:ARG:H	27:BH:157:ASN:HD22	1.68	0.42
27:BH:27:VAL:CA	27:BH:33:THR:HG23	2.50	0.42
35:BP:11:ALA:HB1	35:BP:16:VAL:O	2.20	0.42
43:BW:61:ARG:CG	43:BW:62:GLY:N	2.82	0.42
1:AA:1075:C:H3'	3:AB:103:PRO:HG2	1.63	0.42
46:BZ:65:LYS:N	46:BZ:65:LYS:CD	2.83	0.42
1:AA:877:C:C2'	8:AH:3:SER:CB	2.94	0.42
1:AA:1492:A:O2'	1:AA:1493:A:H5'	2.20	0.42
40:BU:108:LYS:HD3	40:BU:109:LEU:N	2.34	0.42
40:BU:27:ARG:HG2	40:BU:28:ARG:N	2.32	0.42
41:BV:69:LYS:C	41:BV:108:TYR:HB3	2.39	0.42
41:BV:69:LYS:HE3	41:BV:69:LYS:C	2.40	0.42
15:AO:97:VAL:HG11	15:AO:114:LEU:HB2	2.01	0.42
18:B3:1155:G:H2'	18:B3:1156:C:C6	2.55	0.42
2:AT:744:TYR:CZ	18:B3:1171:A:N3	2.85	0.42
1:AA:753:A:H4'	15:AO:127:TYR:CE1	2.55	0.42
11:AK:29:VAL:CG1	11:AK:30:THR:N	2.82	0.42
18:B3:2253:G:N3	18:B3:2254:G:C8	2.88	0.42
15:AO:73:ILE:CD1	15:AO:77:ASN:HD21	2.32	0.42
3:AB:110:ILE:CG2	3:AB:111:THR:N	2.82	0.42
29:BJ:8:MET:HG3	29:BJ:9:ARG:H	1.82	0.42
1:AA:430:A:H2'	1:AA:431:A:H5'	2.01	0.42
18:B3:2748:G:H4'	18:B3:2749:U:C5'	2.50	0.42
18:B3:598:C:C4	18:B3:599:G:N7	2.87	0.42
21:BB:38:GLY:HA2	21:BB:90:GLY:CA	2.32	0.42
18:B3:281:U:O2	18:B3:369:G:C2	2.73	0.42
7:AG:195:GLU:HG2	7:AG:199:ASN:ND2	2.34	0.42
18:B3:179:C:P	45:BY:47:ASN:HB2	2.60	0.42
2:AT:717:PHE:HD2	2:AT:718:LEU:HD13	1.84	0.42
24:BE:133:GLU:CG	24:BE:134:ALA:N	2.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1280:A:O5'	18:B3:1280:A:H8	2.03	0.42
28:BI:21:ARG:HH11	28:BI:21:ARG:HG2	1.83	0.42
18:B3:1391:G:H2'	18:B3:1392:A:H5'	2.01	0.42
18:B3:594:C:O2'	18:B3:595:U:H5'	2.20	0.42
1:AA:285:G:O2'	1:AA:286:G:H5'	2.19	0.42
18:B3:963:C:H2'	18:B3:964:G:C8	2.54	0.42
18:B3:811:C:H2'	18:B3:812:A:C8	2.55	0.42
18:B3:360:A:H2'	18:B3:361:C:O4'	2.19	0.42
18:B3:1298:U:H2'	18:B3:1299:G:C8	2.54	0.42
1:AA:978:A:H2	17:AS:82:ASN:O	2.02	0.42
13:AM:89:GLN:HG3	13:AM:110:ARG:N	2.35	0.42
1:AA:1297:C:O3'	13:AM:55:HIS:O	2.36	0.42
17:AS:124:THR:HG22	17:AS:126:VAL:HG22	2.00	0.42
1:AA:1291:G:O2'	9:AI:41:GLU:HG2	2.19	0.42
9:AI:97:ASP:CA	9:AI:102:ASN:H	2.31	0.42
9:AI:30:VAL:CG1	9:AI:38:VAL:CG2	2.95	0.42
9:AI:88:LEU:CD2	9:AI:104:LEU:CD2	2.97	0.42
9:AI:89:VAL:CG1	9:AI:90:ALA:N	2.82	0.42
9:AI:9:PHE:CD2	9:AI:10:GLY:N	2.88	0.42
10:AJ:31:VAL:O	10:AJ:35:GLU:HG2	2.20	0.42
10:AJ:31:VAL:CG1	10:AJ:87:HIS:CE1	3.03	0.42
18:B3:2325:C:H2'	18:B3:2326:U:C6	2.55	0.42
24:BE:159:VAL:HB	24:BE:160:PHE:CZ	2.55	0.42
24:BE:41:LYS:CB	24:BE:49:TYR:CD2	3.03	0.42
36:BQ:79:MET:HA	36:BQ:84:TYR:O	2.20	0.42
33:BN:116:ILE:N	33:BN:116:ILE:CD1	2.82	0.42
18:B3:552:A:H3'	18:B3:553:G:C5'	2.49	0.42
23:BD:229:VAL:CG1	23:BD:230:ALA:N	2.83	0.42
23:BD:57:HIS:O	23:BD:59:THR:HG23	2.20	0.42
18:B3:763:C:O3'	23:BD:85:GLY:HA3	2.20	0.42
18:B3:1359:U:H3'	23:BD:91:ASN:C	2.40	0.42
45:BY:45:SER:O	45:BY:46:TYR:CB	2.68	0.42
18:B3:1184:A:C1'	30:BK:86:LYS:CG	2.93	0.42
18:B3:1654:U:H3	47:B9:50:ALA:HB3	1.81	0.42
18:B3:1852:A:H4'	21:BB:236:LEU:CD2	2.32	0.42
47:B9:38:CYS:CB	47:B9:41:CYS:SG	3.06	0.42
47:B9:56:CYS:CB	47:B9:61:LYS:HD2	2.37	0.42
47:B9:70:VAL:CG1	47:B9:71:SER:N	2.82	0.42
21:BB:177:PRO:HG3	47:B9:22:ARG:HH12	1.70	0.42
21:BB:191:LYS:HG3	21:BB:193:ASN:HD21	1.80	0.42
21:BB:43:ILE:CD1	21:BB:71:ARG:HH22	2.32	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:67:LYS:CG	21:BB:73:GLU:N	2.79	0.42
18:B3:946:C:H2'	18:B3:947:U:H6	1.85	0.42
25:BF:136:GLY:O	25:BF:138:PRO:HD3	2.19	0.42
25:BF:239:VAL:CG1	25:BF:240:LYS:N	2.82	0.42
25:BF:93:LYS:C	25:BF:94:ILE:HG23	2.40	0.42
1:AA:131:C:H4'	1:AA:264:U:C2'	2.49	0.42
1:AA:265:G:C4'	16:AQ:130:ILE:O	2.67	0.42
18:B3:2654:C:C5	22:BC:258:HIS:CB	2.85	0.42
22:BC:12:HIS:NE2	22:BC:15:PHE:CE1	2.83	0.42
18:B3:2822:C:H5''	22:BC:133:SER:CB	2.49	0.42
18:B3:2657:G:H4'	22:BC:20:ARG:NE	2.33	0.42
22:BC:280:LYS:H	22:BC:324:LYS:NZ	2.17	0.42
37:BR:16:GLY:O	37:BR:17:LEU:HD22	2.20	0.42
38:BS:23:ARG:NE	38:BS:28:ILE:HG13	2.35	0.42
26:BG:211:ALA:HA	26:BG:214:VAL:CG2	2.50	0.42
31:BL:161:ARG:HG2	31:BL:166:THR:HG23	1.96	0.42
31:BL:186:ARG:CG	31:BL:187:ARG:N	2.83	0.42
31:BL:20:PHE:CD1	31:BL:21:LEU:N	2.88	0.42
18:B3:1789:G:C5'	18:B3:2880:A:C5	3.03	0.42
35:BP:99:ARG:HH22	35:BP:100:VAL:HG13	1.84	0.42
18:B3:2890:A:N6	38:BS:56:ARG:N	2.67	0.42
18:B3:919:U:C3'	41:BV:39:HIS:O	2.63	0.42
29:BJ:136:ARG:HA	29:BJ:139:ARG:NH2	2.35	0.42
29:BJ:36:LEU:CD2	29:BJ:67:HIS:NE2	2.82	0.42
20:BA:9:VAL:O	20:BA:12:HIS:HB3	2.19	0.42
18:B3:1673:U:O5'	39:BT:110:ASN:C	2.58	0.42
39:BT:109:VAL:HG23	39:BT:123:VAL:CG2	2.48	0.42
39:BT:132:LEU:N	39:BT:132:LEU:CD2	2.82	0.42
18:B3:1447:U:C4	39:BT:70:THR:OG1	2.63	0.42
1:AA:642:A:H1'	8:AH:105:THR:O	2.20	0.42
1:AA:860:A:H5'	3:AB:133:LYS:HZ1	1.83	0.42
5:AD:129:ILE:HG23	5:AD:130:THR:N	2.35	0.42
5:AD:136:VAL:HG21	5:AD:141:VAL:HG21	2.02	0.42
5:AD:118:LEU:CD1	5:AD:164:PHE:CZ	3.03	0.42
1:AA:298:A:C1'	6:AE:196:TYR:CZ	2.94	0.42
1:AA:523:A:C6	12:AL:116:ASP:OD2	2.73	0.42
12:AL:40:SER:HB3	12:AL:122:PHE:CE2	2.53	0.42
1:AA:99:C:H1'	1:AA:102:G:C5	2.53	0.42
41:BV:23:LYS:CD	41:BV:24:HIS:N	2.83	0.42
1:AA:1369:C:P	9:AI:125:PRO:HA	2.59	0.42
18:B3:1139:U:H4'	27:BH:62:ARG:CD	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1226:G:C2'	32:BM:132:ARG:NH1	2.30	0.42
27:BH:66:ALA:O	27:BH:67:ALA:HB2	2.20	0.42
27:BH:69:ARG:O	27:BH:72:LYS:HB2	2.19	0.42
32:BM:103:VAL:O	32:BM:103:VAL:HG23	2.20	0.42
27:BH:42:ASP:OD1	32:BM:124:ARG:HA	2.16	0.42
32:BM:75:PRO:O	32:BM:79:PHE:HD1	2.03	0.42
18:B3:1379:A:O2'	18:B3:1380:U:H5''	2.19	0.42
18:B3:1381:A:N1	43:BW:63:VAL:HG11	2.34	0.42
46:BZ:17:ARG:CG	46:BZ:18:LYS:H	2.19	0.42
46:BZ:20:THR:CG2	46:BZ:21:GLN:N	2.81	0.42
40:BU:100:HIS:CD2	40:BU:104:LEU:CD1	2.98	0.42
40:BU:45:ILE:CD1	40:BU:46:LYS:N	2.82	0.42
40:BU:50:ILE:CG2	40:BU:70:ILE:HD12	2.49	0.42
2:AT:501:LEU:HB2	12:AL:99:ASN:HB2	2.01	0.42
41:BV:69:LYS:CB	41:BV:70:PRO:CA	2.96	0.42
15:AO:112:PHE:O	15:AO:115:ILE:HB	2.20	0.42
1:AA:1341:U:H6	9:AI:141:TYR:CE1	2.38	0.42
11:AK:26:PHE:HD1	11:AK:41:VAL:HG12	1.81	0.42
21:BB:203:MET:HG3	21:BB:204:ASN:H	1.84	0.42
20:BA:185:MET:O	20:BA:189:PHE:HD1	2.03	0.42
4:AC:31:GLU:OE2	4:AC:51:ALA:HB2	2.20	0.42
4:AC:49:ILE:HD11	4:AC:57:VAL:HG11	2.02	0.42
6:AE:133:LEU:HD13	6:AE:134:SER:CB	2.48	0.42
3:AB:68:ASN:HB3	3:AB:69:PRO:HD2	2.02	0.42
18:B3:2419:U:H5''	18:B3:2420:G:C5'	2.48	0.42
5:AD:52:ILE:O	5:AD:52:ILE:HG23	2.18	0.42
1:AA:665:A:H2'	1:AA:725:G:N2	2.34	0.42
18:B3:1609:C:H2'	18:B3:1610:G:H8	1.83	0.42
1:AA:314:C:O2'	1:AA:315:A:H5'	2.20	0.42
18:B3:1092:A:H2'	18:B3:1093:G:C8	2.54	0.42
17:AS:107:ILE:CB	17:AS:111:MET:SD	3.07	0.42
9:AI:33:SER:HB3	9:AI:37:LEU:CG	2.50	0.42
9:AI:35:ILE:CG2	9:AI:36:THR:N	2.82	0.42
9:AI:89:VAL:N	9:AI:96:VAL:CG2	2.82	0.42
18:B3:2413:A:O2'	24:BE:174:PRO:CA	2.68	0.42
24:BE:34:LYS:HD3	24:BE:34:LYS:C	2.41	0.42
24:BE:42:ALA:CA	24:BE:49:TYR:CD1	3.01	0.42
36:BQ:33:VAL:CG1	36:BQ:34:TYR:N	2.83	0.42
18:B3:1315:G:H4'	42:B0:103:LYS:CE	2.36	0.42
18:B3:677:C:O2'	23:BD:256:LYS:CB	2.63	0.42
18:B3:707:C:H41	34:BO:72:LYS:HZ1	1.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:5:VAL:CG2	23:BD:150:VAL:CG1	2.94	0.42
23:BD:205:LEU:CG	23:BD:206:VAL:N	2.80	0.42
23:BD:206:VAL:HG12	23:BD:207:VAL:O	2.20	0.42
34:BO:41:ASP:CB	34:BO:133:LYS:HG2	2.14	0.42
31:BL:77:GLY:O	31:BL:78:ALA:HB3	2.19	0.42
18:B3:170:U:C4'	31:BL:82:LYS:CD	2.71	0.42
18:B3:1180:C:H2'	30:BK:106:LEU:HB3	2.02	0.42
18:B3:1852:A:O2'	21:BB:237:ILE:CD1	2.67	0.42
47:B9:60:LYS:HD3	47:B9:60:LYS:H	1.83	0.42
21:BB:226:ARG:CD	21:BB:227:GLY:N	2.82	0.42
21:BB:50:ASP:OD2	21:BB:56:PRO:HA	2.20	0.42
19:B4:97:U:C2	25:BF:220:LYS:CE	2.91	0.42
25:BF:116:VAL:HG11	25:BF:122:THR:CG2	2.50	0.42
25:BF:88:ILE:HG12	25:BF:132:TYR:O	2.20	0.42
1:AA:131:C:C2'	1:AA:263:A:O2'	2.67	0.42
18:B3:487:G:C5'	40:BU:90:VAL:CB	2.87	0.42
39:BT:59:TYR:CZ	44:BX:55:LEU:HD11	2.51	0.42
44:BX:45:LYS:NZ	44:BX:46:THR:HA	2.35	0.42
18:B3:1053:G:O2'	18:B3:1054:G:H5'	2.19	0.42
18:B3:2671:U:P	22:BC:178:ALA:HA	2.59	0.42
18:B3:2762:C:C4'	37:BR:16:GLY:O	2.67	0.42
22:BC:105:TRP:CE2	22:BC:138:GLN:HB3	2.55	0.42
22:BC:237:LEU:CD2	22:BC:237:LEU:N	2.83	0.42
22:BC:240:LYS:C	22:BC:242:HIS:H	2.23	0.42
22:BC:277:ILE:CG2	22:BC:278:ASN:N	2.82	0.42
22:BC:324:LYS:C	22:BC:324:LYS:HE3	2.40	0.42
22:BC:46:LEU:HD12	22:BC:47:GLY:N	2.33	0.42
22:BC:89:VAL:CG2	22:BC:91:TYR:CE2	3.00	0.42
22:BC:93:GLU:HG2	22:BC:94:THR:O	2.19	0.42
28:BI:57:LEU:N	28:BI:57:LEU:CD2	2.83	0.42
18:B3:2135:A:O2'	18:B3:2136:G:H5'	2.20	0.42
26:BG:203:ARG:HD3	26:BG:210:LEU:CG	2.48	0.42
31:BL:88:VAL:CG1	31:BL:89:ASN:H	2.32	0.42
18:B3:2734:G:O5'	35:BP:79:LYS:HD3	2.19	0.42
19:B4:39:U:H3'	19:B4:40:C:H5''	2.01	0.42
29:BJ:70:VAL:HG23	29:BJ:71:ARG:N	2.35	0.42
20:BA:30:GLU:CG	20:BA:209:SER:HB2	2.50	0.42
39:BT:109:VAL:HB	39:BT:123:VAL:CG2	2.28	0.42
18:B3:1449:G:C5'	39:BT:110:ASN:HD22	2.05	0.42
1:AA:402:G:C4	1:AA:620:C:N3	2.88	0.42
1:AA:825:G:H2'	1:AA:826:C:C6	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:135:ALA:CA	3:AB:138:VAL:HG12	2.48	0.42
1:AA:620:C:O5'	5:AD:129:ILE:CD1	2.59	0.42
5:AD:100:LYS:HB3	5:AD:191:ALA:O	2.19	0.42
5:AD:85:VAL:CG1	5:AD:86:LEU:N	2.83	0.42
5:AD:90:LYS:O	5:AD:91:LYS:HB2	2.20	0.42
8:AH:76:PRO:CG	8:AH:129:TYR:CD1	3.03	0.42
8:AH:40:MET:SD	8:AH:45:TYR:CB	3.07	0.42
1:AA:362:G:C5'	12:AL:77:ILE:O	2.67	0.42
2:AT:484:SER:O	2:AT:533:THR:HG21	2.20	0.42
2:AT:137:VAL:HG11	18:B3:2697:A:P	2.59	0.42
18:B3:2579:G:P	18:B3:2680:A:C5'	3.05	0.42
18:B3:2795:C:O2'	27:BH:156:GLN:NE2	2.53	0.42
27:BH:61:GLY:C	27:BH:63:LYS:HE3	2.40	0.42
27:BH:97:PHE:CE2	27:BH:118:LEU:O	2.72	0.42
32:BM:139:LYS:C	32:BM:139:LYS:HD3	2.40	0.42
32:BM:13:HIS:CD2	32:BM:121:GLN:CG	2.99	0.42
35:BP:41:ARG:N	35:BP:41:ARG:HH11	2.17	0.42
35:BP:51:LYS:CG	35:BP:52:LYS:N	2.82	0.42
43:BW:25:LYS:O	43:BW:63:VAL:HG11	2.20	0.42
43:BW:32:VAL:CG1	43:BW:33:LYS:N	2.82	0.42
43:BW:48:VAL:HG13	43:BW:50:LEU:HD23	1.99	0.42
18:B3:2430:A:N6	18:B3:2460:A:C2	2.87	0.42
1:AA:934:C:N4	7:AG:76:TYR:HE1	2.17	0.42
40:BU:50:ILE:HD12	40:BU:101:PRO:CG	2.47	0.42
40:BU:74:TYR:HB3	40:BU:79:ALA:O	2.20	0.42
41:BV:7:THR:CG2	41:BV:8:ARG:N	2.83	0.42
1:AA:499:A:O2'	1:AA:500:G:C4'	2.67	0.42
5:AD:63:ASP:O	5:AD:67:PRO:HD2	2.19	0.42
41:BV:69:LYS:N	41:BV:69:LYS:CE	2.83	0.42
18:B3:1235:G:C5	32:BM:69:PRO:HD3	2.49	0.42
41:BV:44:MET:O	41:BV:47:TYR:CE1	2.73	0.42
4:AC:98:VAL:CG2	4:AC:99:ALA:N	2.82	0.42
20:BA:178:VAL:HG23	20:BA:179:LEU:N	2.34	0.42
23:BD:11:THR:CG2	23:BD:12:GLY:N	2.82	0.42
4:AC:155:PHE:HD2	4:AC:157:ILE:HB	1.85	0.42
7:AG:173:LEU:CD1	7:AG:209:ALA:HB1	2.48	0.42
1:AA:562:C:O3'	12:AL:32:ARG:NH1	2.53	0.42
18:B3:288:A:N1	18:B3:364:C:N3	2.67	0.42
20:BA:5:THR:HG22	20:BA:8:GLN:HG3	1.94	0.42
2:AT:836:GLN:HE21	2:AT:836:GLN:N	2.16	0.42
18:B3:1665:G:O2'	18:B3:1666:C:H5'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1627:G:O2'	18:B3:1628:G:H5'	2.20	0.42
30:BK:59:THR:HG23	30:BK:59:THR:O	2.19	0.42
1:AA:1094:G:OP2	1:AA:1095:U:C5	2.73	0.42
19:B4:52:A:H2'	19:B4:53:G:O4'	2.19	0.42
1:AA:942:G:C2	1:AA:943:U:C6	3.07	0.42
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.54	0.42
1:AA:1450:U:H2'	1:AA:1452:C:C5	2.54	0.42
1:AA:1298:C:H42	7:AG:184:ARG:CD	2.27	0.42
1:AA:1302:U:P	13:AM:54:LEU:CD2	2.99	0.42
13:AM:56:LYS:HE3	13:AM:60:GLU:O	2.18	0.42
13:AM:17:LEU:HA	13:AM:70:VAL:HG22	2.00	0.42
13:AM:72:ILE:CG2	13:AM:73:MET:N	2.82	0.42
17:AS:83:MET:SD	17:AS:89:MET:CE	3.07	0.42
18:B3:1414:A:N3	45:BY:11:HIS:CG	2.87	0.42
1:AA:1145:C:O2'	1:AA:1146:A:C8	2.73	0.42
1:AA:1152:A:O2'	1:AA:1153:C:H5'	2.19	0.42
9:AI:97:ASP:HA	9:AI:102:ASN:CA	2.50	0.42
19:B4:11:A:C5	24:BE:16:PHE:N	2.88	0.42
24:BE:65:ILE:CD1	24:BE:75:LEU:N	2.80	0.42
36:BQ:18:ASP:HB2	36:BQ:20:ARG:HH21	1.85	0.42
36:BQ:42:ILE:HG23	36:BQ:58:GLN:HA	2.02	0.42
1:AA:320:C:C1'	1:AA:1435:G:C1'	2.88	0.42
33:BN:106:LEU:C	33:BN:106:LEU:HD22	2.40	0.42
33:BN:25:PHE:CG	33:BN:120:GLN:CG	3.01	0.42
33:BN:28:THR:CG2	33:BN:29:ARG:N	2.83	0.42
33:BN:81:ARG:CZ	33:BN:83:PRO:HD3	2.50	0.42
42:B0:83:GLU:CD	42:B0:83:GLU:H	2.22	0.42
23:BD:112:VAL:HG11	23:BD:117:LYS:CE	2.50	0.42
23:BD:137:ARG:CZ	23:BD:137:ARG:N	2.83	0.42
23:BD:177:LEU:HA	23:BD:180:VAL:HG23	2.02	0.42
18:B3:676:C:C2	23:BD:231:SER:O	2.72	0.42
23:BD:27:ALA:HB3	23:BD:126:ALA:HB2	1.99	0.42
18:B3:706:G:C2	34:BO:72:LYS:HZ3	1.61	0.42
45:BY:30:LYS:CD	45:BY:31:LYS:N	2.83	0.42
18:B3:1168:C:H2'	18:B3:1169:U:O4'	2.19	0.42
47:B9:32:GLN:CG	47:B9:69:THR:N	2.82	0.42
47:B9:48:ARG:CD	47:B9:48:ARG:N	2.82	0.42
21:BB:177:PRO:HD3	47:B9:24:GLN:HG3	1.30	0.42
18:B3:1067:A:H4'	25:BF:94:ILE:HG23	1.99	0.42
18:B3:947:U:H2'	18:B3:948:G:C8	2.54	0.42
1:AA:254:G:O2'	1:AA:255:G:H5'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:81:ARG:CG	16:AQ:109:HIS:CE1	3.03	0.42
18:B3:67:A:H5''	18:B3:68:U:H3'	2.02	0.42
22:BC:116:ARG:O	22:BC:117:PHE:CG	2.73	0.42
22:BC:26:ALA:HB3	22:BC:217:ILE:HG12	2.02	0.42
22:BC:40:VAL:CG1	22:BC:41:ALA:N	2.83	0.42
22:BC:69:ARG:CD	37:BR:89:ASP:CG	2.79	0.42
28:BI:125:LEU:CD1	28:BI:125:LEU:N	2.83	0.42
18:B3:2133:U:H4'	18:B3:2134:G:O4'	2.18	0.42
26:BG:211:ALA:CA	26:BG:214:VAL:HG22	2.50	0.42
31:BL:35:ILE:CG2	31:BL:108:ARG:HE	2.32	0.42
31:BL:141:ILE:CG2	31:BL:142:ARG:N	2.82	0.42
35:BP:81:LYS:CE	35:BP:81:LYS:N	2.82	0.42
18:B3:2336:G:O5'	29:BJ:103:PHE:CE2	2.73	0.42
18:B3:2346:C:H1'	29:BJ:66:VAL:H	0.38	0.42
20:BA:57:ASN:HD22	20:BA:168:ALA:HB3	1.85	0.42
39:BT:129:TYR:CD1	39:BT:130:ASP:O	2.73	0.42
39:BT:62:ILE:O	39:BT:83:PHE:CE2	2.73	0.42
3:AB:23:LEU:O	3:AB:47:ILE:HG12	2.19	0.42
3:AB:85:VAL:O	3:AB:89:ALA:HB2	2.20	0.42
5:AD:133:HIS:HB3	5:AD:160:PRO:HG3	2.02	0.42
6:AE:156:LYS:HD3	8:AH:95:ALA:HB1	2.02	0.42
6:AE:165:THR:HB	6:AE:200:ASN:ND2	2.35	0.42
1:AA:522:C:O2'	1:AA:523:A:H5'	2.20	0.42
1:AA:553:A:OP1	12:AL:122:PHE:CD2	2.67	0.42
37:BR:28:ASN:CB	37:BR:102:ILE:CD1	2.95	0.42
18:B3:2796:U:C5'	27:BH:129:ARG:HH11	2.31	0.42
27:BH:167:VAL:HG21	27:BH:170:LYS:CE	2.48	0.42
27:BH:27:VAL:CG1	27:BH:28:VAL:N	2.79	0.42
32:BM:137:LEU:CD1	32:BM:138:GLY:N	2.83	0.42
1:AA:676:A:H5'	11:AK:120:VAL:HB	1.74	0.42
1:AA:1071:C:P	6:AE:90:ARG:H	2.43	0.42
35:BP:24:ASP:CG	35:BP:27:GLU:HB2	2.40	0.42
43:BW:32:VAL:C	43:BW:35:ILE:HG13	2.40	0.42
18:B3:81:G:OP2	40:BU:72:SER:C	2.55	0.42
18:B3:99:A:C1'	40:BU:75:ARG:CZ	2.68	0.42
1:AA:21:G:H5''	1:AA:884:U:O4'	2.17	0.42
18:B3:697:G:H3'	41:BV:112:LEU:HD11	1.70	0.42
41:BV:74:LEU:O	41:BV:117:ILE:HD11	2.20	0.42
41:BV:97:THR:HG21	41:BV:124:VAL:CG1	2.50	0.42
41:BV:99:PRO:HB3	41:BV:104:LEU:HD11	2.02	0.42
1:AA:1408:A:O5'	18:B3:1960:A:P	2.77	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:754:C:C1'	15:AO:127:TYR:CZ	3.02	0.42
18:B3:2633:A:OP1	21:BB:212:GLY:O	2.38	0.42
21:BB:204:ASN:CB	21:BB:212:GLY:N	2.81	0.42
47:B9:34:ALA:HB3	47:B9:36:TYR:CE2	2.55	0.42
20:BA:123:LEU:N	20:BA:123:LEU:CD2	2.83	0.42
22:BC:147:LEU:HD12	22:BC:147:LEU:N	2.34	0.42
24:BE:218:ARG:O	24:BE:219:PHE:CD2	2.72	0.42
3:AB:55:LYS:CE	3:AB:55:LYS:HA	2.38	0.42
28:BI:82:ARG:HB2	28:BI:82:ARG:CZ	2.50	0.42
11:AK:32:LEU:CD2	11:AK:32:LEU:N	2.83	0.42
4:AC:164:ASN:HB3	4:AC:192:ALA:HB3	2.02	0.42
29:BJ:146:THR:CG2	29:BJ:147:VAL:N	2.83	0.42
4:AC:85:LEU:C	4:AC:85:LEU:HD13	2.40	0.42
1:AA:636:U:H2'	1:AA:637:G:C8	2.55	0.42
8:AH:67:ARG:HG2	8:AH:73:VAL:HG22	2.02	0.42
18:B3:846:A:O2'	18:B3:847:C:H5'	2.19	0.42
22:BC:186:SER:O	22:BC:187:ILE:HD13	2.20	0.42
22:BC:186:SER:O	22:BC:187:ILE:HG12	2.20	0.42
1:AA:145:G:O2'	1:AA:146:G:H5'	2.20	0.42
1:AA:1298:C:N4	7:AG:184:ARG:HD3	2.27	0.41
13:AM:26:ILE:CA	13:AM:57:ARG:HH11	2.32	0.41
42:B0:32:TRP:CE3	42:B0:32:TRP:C	2.94	0.41
18:B3:2061:C:O4'	42:B0:24:ARG:HD2	2.19	0.41
9:AI:101:LYS:N	9:AI:105:LYS:CA	2.83	0.41
24:BE:111:GLN:NE2	24:BE:142:PHE:CE2	2.87	0.41
24:BE:55:PHE:CZ	24:BE:159:VAL:N	2.86	0.41
19:B4:118:C:C5'	24:BE:70:THR:OG1	2.63	0.41
36:BQ:55:LYS:CD	36:BQ:55:LYS:N	2.83	0.41
18:B3:2662:G:N2	18:B3:2814:A:C5	2.86	0.41
33:BN:17:ARG:HG3	33:BN:146:GLU:CA	2.49	0.41
33:BN:25:PHE:HE1	33:BN:143:SER:HB2	1.84	0.41
18:B3:449:A:C2	18:B3:1348:A:N6	2.85	0.41
18:B3:720:G:H5'	34:BO:71:LEU:O	2.18	0.41
23:BD:130:VAL:HG22	23:BD:131:ALA:N	2.33	0.41
18:B3:710:G:C4'	34:BO:44:PHE:CE2	3.01	0.41
18:B3:1360:C:C2'	23:BD:88:ALA:N	2.83	0.41
46:BZ:49:PHE:O	46:BZ:49:PHE:CG	2.72	0.41
30:BK:37:LEU:O	30:BK:39:PRO:HD3	2.20	0.41
30:BK:85:LEU:HD13	30:BK:103:ASN:H	1.85	0.41
18:B3:820:G:OP1	47:B9:21:LEU:HD22	2.20	0.41
47:B9:25:VAL:HG12	47:B9:26:LYS:CD	2.45	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1870:C:H4'	21:BB:192:ARG:HB3	1.84	0.41
21:BB:6:ASN:CG	21:BB:233:LYS:HE3	2.40	0.41
25:BF:95:PRO:CG	25:BF:98:PRO:HG2	2.35	0.41
44:BX:30:GLU:HA	44:BX:33:VAL:HG22	2.01	0.41
18:B3:1055:G:H8	28:BI:110:ARG:C	2.02	0.41
18:B3:1134:G:O4'	18:B3:1229:C:C5'	2.68	0.41
18:B3:2615:U:H5'	22:BC:240:LYS:CG	2.48	0.41
22:BC:204:VAL:CG2	22:BC:205:ASP:N	2.82	0.41
22:BC:232:TRP:CD1	22:BC:233:GLY:O	2.73	0.41
22:BC:229:THR:O	22:BC:233:GLY:HA2	2.20	0.41
18:B3:2093:G:C2	22:BC:257:ALA:CA	2.95	0.41
22:BC:27:ARG:N	22:BC:27:ARG:CZ	2.83	0.41
22:BC:48:TYR:CD2	22:BC:334:ILE:C	2.93	0.41
22:BC:49:LYS:O	22:BC:49:LYS:HG3	2.17	0.41
18:B3:2283:G:C5	28:BI:105:CYS:C	2.94	0.41
18:B3:2311:A:OP1	28:BI:119:TRP:CE3	2.28	0.41
28:BI:99:ILE:O	28:BI:99:ILE:HD12	2.19	0.41
26:BG:112:ALA:HB1	26:BG:121:LYS:HE3	2.01	0.41
31:BL:10:GLN:HG2	31:BL:46:LYS:NZ	2.35	0.41
31:BL:109:ALA:CB	31:BL:112:LEU:CD2	2.95	0.41
18:B3:1798:C:H2'	18:B3:1798:C:O2	2.19	0.41
18:B3:1805:G:H8	18:B3:2875:A:H1'	1.82	0.41
7:AG:116:THR:CG2	7:AG:193:LEU:HB2	2.44	0.41
29:BJ:158:THR:CG2	29:BJ:159:VAL:N	2.82	0.41
29:BJ:31:ARG:O	29:BJ:32:ALA:HB3	2.20	0.41
29:BJ:73:PRO:HA	29:BJ:76:GLU:OE1	2.20	0.41
39:BT:80:ILE:H	39:BT:124:ARG:HG3	1.84	0.41
39:BT:61:VAL:HG13	39:BT:62:ILE:HG23	2.01	0.41
3:AB:135:ALA:HA	3:AB:138:VAL:CG1	2.48	0.41
1:AA:400:C:C3'	5:AD:77:ILE:HG21	2.14	0.41
8:AH:76:PRO:HG2	8:AH:129:TYR:H	1.84	0.41
1:AA:860:A:H4'	8:AH:18:LYS:NZ	2.35	0.41
1:AA:25:C:OP2	12:AL:39:LYS:HE2	2.16	0.41
1:AA:45:U:OP1	1:AA:308:C:H5''	2.17	0.41
12:AL:102:VAL:HG23	12:AL:133:LEU:CG	2.49	0.41
12:AL:121:ARG:HB2	12:AL:122:PHE:CD1	2.55	0.41
1:AA:58:C:O2'	1:AA:388:G:O6	2.08	0.41
2:AT:464:LEU:HD22	2:AT:510:ARG:CA	2.50	0.41
2:AT:785:ARG:HB2	2:AT:790:GLY:HA2	2.01	0.41
18:B3:2596:A:C5'	37:BR:73:VAL:HG13	2.44	0.41
27:BH:10:ILE:O	27:BH:10:ILE:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:7:GLU:CG	27:BH:8:GLN:N	2.82	0.41
1:AA:678:U:H5'	11:AK:127:LYS:CG	2.50	0.41
1:AA:677:U:C2	11:AK:125:THR:O	2.73	0.41
18:B3:2430:A:N6	46:BZ:59:LYS:CE	2.82	0.41
46:BZ:70:ARG:HH21	46:BZ:79:ARG:N	2.13	0.41
18:B3:2854:A:OP1	22:BC:170:LEU:CD1	2.68	0.41
1:AA:16:A:C2	1:AA:919:A:N1	2.88	0.41
18:B3:697:G:P	41:BV:130:SER:CB	3.07	0.41
41:BV:118:PRO:HG3	41:BV:140:ALA:CB	2.48	0.41
41:BV:123:ILE:CD1	41:BV:123:ILE:N	2.82	0.41
18:B3:219:G:HO2'	18:B3:220:C:P	2.43	0.41
18:B3:218:C:H41	41:BV:54:LYS:NZ	2.18	0.41
22:BC:59:LEU:HD23	22:BC:59:LEU:HA	1.73	0.41
7:AG:136:ILE:CG2	7:AG:137:THR:N	2.83	0.41
18:B3:1378:G:C8	18:B3:2748:G:O6	2.72	0.41
23:BD:94:ARG:HB3	23:BD:95:GLY:H	1.65	0.41
24:BE:123:GLU:HG2	24:BE:124:GLU:H	1.85	0.41
6:AE:75:LEU:CD1	6:AE:75:LEU:N	2.82	0.41
21:BB:154:LYS:N	21:BB:154:LYS:HE3	2.29	0.41
1:AA:1426:C:H2'	1:AA:1427:U:H6	1.85	0.41
1:AA:1195:C:H2'	1:AA:1197:G:H5'	2.02	0.41
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.55	0.41
1:AA:736:C:H2'	1:AA:737:A:H8	1.83	0.41
2:AT:581:ASN:ND2	2:AT:704:GLN:HG3	2.34	0.41
18:B3:735:C:C2'	18:B3:736:A:H5'	2.50	0.41
2:AT:611:ASP:OD2	2:AT:613:LYS:HB3	2.20	0.41
35:BP:108:TYR:HD1	35:BP:113:LYS:HB3	1.85	0.41
18:B3:836:G:O2'	18:B3:1737:A:OP1	2.29	0.41
4:AC:169:THR:HG23	4:AC:169:THR:O	2.20	0.41
13:AM:112:ASP:HA	13:AM:115:ARG:HD3	2.02	0.41
13:AM:116:LEU:HA	13:AM:119:ILE:HD11	2.02	0.41
17:AS:50:THR:CG2	17:AS:51:SER:H	2.18	0.41
18:B3:1694:G:H22	45:BY:5:PRO:CG	1.07	0.41
18:B3:1692:C:O2	33:BN:130:ARG:HG2	2.20	0.41
18:B3:542:A:P	42:B0:14:THR:HA	2.60	0.41
18:B3:538:C:C1'	42:B0:21:HIS:ND1	2.83	0.41
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.55	0.41
9:AI:54:VAL:CG2	9:AI:55:GLY:N	2.83	0.41
18:B3:2295:G:C3'	36:BQ:5:HIS:C	2.89	0.41
18:B3:2326:U:H4'	18:B3:2412:G:C4'	2.50	0.41
19:B4:120:A:H4'	24:BE:74:VAL:CG1	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:34:A:H62	24:BE:95:TRP:HZ3	1.41	0.41
24:BE:102:GLY:O	24:BE:103:LEU:HB2	2.20	0.41
24:BE:112:ARG:CG	24:BE:113:LEU:H	2.32	0.41
24:BE:118:THR:HG22	24:BE:130:GLU:CD	2.41	0.41
24:BE:47:PRO:HB2	24:BE:67:SER:CB	2.46	0.41
24:BE:51:LEU:O	24:BE:51:LEU:HG	2.20	0.41
36:BQ:42:ILE:HG23	36:BQ:59:GLY:N	2.32	0.41
33:BN:21:LEU:HD13	33:BN:89:PHE:HB3	2.02	0.41
18:B3:1352:A:C4	23:BD:50:ALA:CA	2.90	0.41
23:BD:128:THR:HG23	23:BD:247:VAL:CG2	2.50	0.41
23:BD:186:LEU:CD2	23:BD:186:LEU:N	2.83	0.41
23:BD:32:ASP:HB2	23:BD:33:ILE:HD12	2.02	0.41
18:B3:111:C:O3'	18:B3:119:A:N6	2.48	0.41
45:BY:16:THR:O	45:BY:26:PHE:CD1	2.73	0.41
47:B9:41:CYS:SG	47:B9:42:GLY:N	2.93	0.41
21:BB:157:ILE:HD13	21:BB:157:ILE:O	2.20	0.41
21:BB:179:LEU:HD22	47:B9:21:LEU:HD12	0.42	0.41
21:BB:187:LYS:CE	21:BB:187:LYS:CA	2.98	0.41
19:B4:97:U:H2'	19:B4:98:C:C6	2.55	0.41
25:BF:110:ILE:HG23	25:BF:110:ILE:O	2.19	0.41
1:AA:265:G:H4'	16:AQ:131:SER:CA	2.50	0.41
18:B3:106:A:O2'	18:B3:107:U:H5'	2.20	0.41
1:AA:162:A:H2'	1:AA:163:C:O4'	2.19	0.41
18:B3:2820:A:O4'	22:BC:89:VAL:CA	2.68	0.41
18:B3:2826:G:N9	22:BC:124:SER:HB2	2.35	0.41
22:BC:15:PHE:O	22:BC:15:PHE:CD2	2.73	0.41
22:BC:45:PHE:CE2	22:BC:202:VAL:CG2	3.03	0.41
22:BC:228:VAL:CG2	22:BC:229:THR:N	2.82	0.41
22:BC:231:ARG:CD	22:BC:232:TRP:N	2.82	0.41
22:BC:239:ARG:O	22:BC:240:LYS:HG3	2.19	0.41
22:BC:274:ARG:H	22:BC:274:ARG:HD3	1.84	0.41
22:BC:52:MET:SD	22:BC:77:VAL:CG2	3.07	0.41
22:BC:71:VAL:HG13	22:BC:71:VAL:O	2.21	0.41
18:B3:1053:G:H3'	28:BI:110:ARG:HH22	1.84	0.41
28:BI:140:THR:CG2	28:BI:141:LYS:CD	2.95	0.41
28:BI:48:LEU:HD23	28:BI:49:CYS:H	1.80	0.41
28:BI:52:LEU:HG	28:BI:136:PHE:O	2.20	0.41
26:BG:109:THR:HA	26:BG:118:GLY:HA3	2.00	0.41
18:B3:263:U:C5	26:BG:196:VAL:HG22	2.56	0.41
31:BL:133:LEU:HD23	31:BL:133:LEU:HA	1.77	0.41
31:BL:138:HIS:CB	31:BL:141:ILE:HG21	2.49	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:168:LYS:HD2	31:BL:169:LYS:HG2	2.01	0.41
31:BL:193:GLN:CD	31:BL:193:GLN:H	2.24	0.41
18:B3:1788:U:C4	18:B3:2882:G:O2'	2.73	0.41
29:BJ:155:LYS:HA	29:BJ:158:THR:HG22	2.02	0.41
29:BJ:166:TYR:HD1	29:BJ:167:ASP:CG	2.23	0.41
29:BJ:91:ARG:NE	29:BJ:169:ASP:HB2	2.18	0.41
18:B3:2165:G:O3'	20:BA:33:GLU:CB	2.53	0.41
39:BT:98:VAL:O	39:BT:102:TYR:CE1	2.74	0.41
4:AC:10:LEU:CD2	4:AC:10:LEU:N	2.81	0.41
4:AC:10:LEU:CD2	4:AC:11:VAL:H	2.22	0.41
5:AD:100:LYS:O	5:AD:106:GLU:HB2	2.20	0.41
5:AD:99:LEU:CG	5:AD:107:ARG:N	2.83	0.41
5:AD:96:VAL:HG13	5:AD:97:LEU:N	2.33	0.41
8:AH:125:LEU:CD1	8:AH:125:LEU:N	2.82	0.41
6:AE:153:LEU:CD2	8:AH:97:GLN:C	2.85	0.41
1:AA:524:G:H5'	12:AL:109:ARG:HB2	2.02	0.41
1:AA:67:C:N4	1:AA:70:G:N1	2.64	0.41
37:BR:22:ILE:CD1	37:BR:22:ILE:N	2.83	0.41
37:BR:64:LYS:CA	37:BR:64:LYS:HE3	2.50	0.41
18:B3:2558:G:C4	18:B3:2799:A:O2'	2.64	0.41
18:B3:2561:C:C4'	18:B3:2777:G:H4'	2.50	0.41
27:BH:34:LEU:CG	27:BH:150:SER:HB3	2.50	0.41
27:BH:173:ARG:HB2	27:BH:173:ARG:CZ	2.50	0.41
27:BH:94:TYR:HB2	27:BH:95:ALA:H	1.52	0.41
32:BM:48:ARG:HB2	32:BM:52:LYS:HE2	2.01	0.41
35:BP:10:ALA:H	35:BP:40:ILE:HG21	1.85	0.41
41:BV:111:ILE:CD1	41:BV:111:ILE:N	2.83	0.41
18:B3:20:G:O2'	33:BN:5:ALA:O	2.35	0.41
1:AA:1504:G:P	1:AA:1507:A:H8	2.41	0.41
18:B3:195:C:P	31:BL:178:LYS:CB	3.04	0.41
41:BV:44:MET:O	41:BV:47:TYR:HE1	2.03	0.41
16:AQ:98:ARG:HG2	16:AQ:99:TYR:N	2.35	0.41
4:AC:137:VAL:HG12	4:AC:138:SER:N	2.35	0.41
22:BC:350:LEU:CD2	22:BC:350:LEU:N	2.83	0.41
7:AG:167:VAL:CG2	7:AG:168:ASN:N	2.82	0.41
24:BE:223:PHE:C	24:BE:223:PHE:CD1	2.93	0.41
3:AB:191:THR:OG1	3:AB:193:PRO:HG2	2.21	0.41
40:BU:89:LYS:N	40:BU:89:LYS:CD	2.83	0.41
40:BU:89:LYS:NZ	40:BU:92:GLY:HA2	2.35	0.41
18:B3:2366:C:OP1	36:BQ:47:SER:OG	2.25	0.41
18:B3:1626:A:H2'	18:B3:1627:G:C5'	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1462:C:H2'	18:B3:1463:A:C8	2.55	0.41
18:B3:1545:C:H2'	18:B3:1546:G:O4'	2.19	0.41
18:B3:1020:A:H2'	18:B3:1021:G:C8	2.55	0.41
18:B3:2276:U:H2'	18:B3:2277:U:C6	2.55	0.41
13:AM:25:ASN:O	13:AM:57:ARG:HD2	2.21	0.41
13:AM:131:LEU:HD13	17:AS:121:ILE:CG2	2.50	0.41
18:B3:620:A:P	42:B0:39:ASP:O	2.75	0.41
7:AG:111:ARG:HG3	9:AI:43:LEU:HD21	2.01	0.41
19:B4:1:U:O2'	19:B4:3:A:OP1	2.38	0.41
24:BE:148:ILE:CD1	24:BE:148:ILE:H	2.33	0.41
24:BE:46:THR:OG1	24:BE:66:SER:HA	2.21	0.41
24:BE:49:TYR:OH	24:BE:144:VAL:HG22	2.21	0.41
24:BE:55:PHE:CD1	24:BE:151:GLN:NE2	2.88	0.41
24:BE:68:THR:CG2	24:BE:69:ILE:N	2.82	0.41
24:BE:65:ILE:CG1	24:BE:75:LEU:H	2.33	0.41
33:BN:25:PHE:CE2	33:BN:28:THR:HG23	2.55	0.41
33:BN:27:ASN:HB3	33:BN:83:PRO:HG2	2.02	0.41
18:B3:1336:U:OP2	42:B0:100:ILE:CD1	2.67	0.41
18:B3:26:U:O2	18:B3:1319:G:C2	2.74	0.41
23:BD:147:ILE:C	23:BD:147:ILE:HD12	2.41	0.41
23:BD:177:LEU:HB2	23:BD:222:PRO:CG	2.47	0.41
34:BO:46:LYS:O	34:BO:49:LEU:HB3	2.20	0.41
34:BO:74:GLU:OE1	34:BO:140:LEU:HD21	2.20	0.41
34:BO:77:ALA:O	34:BO:79:LYS:HD3	2.20	0.41
34:BO:77:ALA:C	34:BO:79:LYS:HD3	2.40	0.41
45:BY:15:HIS:HD2	45:BY:24:ARG:CG	2.31	0.41
18:B3:51:G:H4'	45:BY:20:ARG:C	2.41	0.41
45:BY:32:THR:CB	45:BY:38:TYR:CD1	2.93	0.41
30:BK:112:ILE:O	30:BK:115:GLN:HG2	2.20	0.41
30:BK:71:ALA:HB1	30:BK:115:GLN:CA	2.47	0.41
47:B9:55:THR:CG2	47:B9:62:THR:CA	2.96	0.41
21:BB:197:LYS:HD3	21:BB:197:LYS:H	1.84	0.41
25:BF:131:PRO:HB3	25:BF:228:PHE:HZ	1.83	0.41
1:AA:190(C):C:H41	16:AQ:112:PRO:CD	2.33	0.41
40:BU:90:VAL:CG1	40:BU:91:ASN:N	2.83	0.41
18:B3:93:C:C4'	44:BX:42:PRO:HB3	2.47	0.41
18:B3:2064:U:H3'	22:BC:255:HIS:HE1	1.82	0.41
18:B3:2291:A:H5''	18:B3:2292:C:C5'	2.49	0.41
18:B3:2719:A:C2	37:BR:91:VAL:HG11	2.53	0.41
18:B3:2821:C:H2'	18:B3:2822:C:C6	2.55	0.41
18:B3:2836:G:O2'	18:B3:2837:U:P	2.78	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2846:C:H5''	22:BC:174:LYS:CD	2.50	0.41
18:B3:968:G:H4'	28:BI:35:ASP:CG	2.40	0.41
22:BC:105:TRP:CZ3	22:BC:138:GLN:O	2.73	0.41
22:BC:42:LEU:N	22:BC:180:ILE:HD13	2.36	0.41
22:BC:279:HIS:CE1	22:BC:327:ILE:CG1	3.02	0.41
22:BC:46:LEU:CD2	22:BC:336:THR:HG22	2.50	0.41
22:BC:52:MET:HB2	22:BC:77:VAL:H	1.85	0.41
22:BC:90:GLY:C	22:BC:91:TYR:CD2	2.94	0.41
28:BI:94:PHE:O	28:BI:95:HIS:CB	2.68	0.41
18:B3:134:U:C5'	31:BL:108:ARG:CD	2.92	0.41
31:BL:103:GLU:CG	31:BL:104:ARG:HG2	2.48	0.41
31:BL:53:LYS:HD2	31:BL:53:LYS:N	2.34	0.41
31:BL:90:GLU:CG	31:BL:91:LEU:N	2.83	0.41
18:B3:1566:C:O5'	35:BP:57:HIS:HE1	1.99	0.41
18:B3:1809:G:C4'	18:B3:2731:G:H5''	2.39	0.41
18:B3:1812:G:C1'	18:B3:2732:U:O2'	2.67	0.41
18:B3:1566:C:O2'	35:BP:56:VAL:HG13	2.20	0.41
18:B3:2336:G:O2'	18:B3:2337:G:H5'	2.20	0.41
29:BJ:49:ALA:O	29:BJ:50:ARG:HB3	2.20	0.41
29:BJ:70:VAL:CG1	29:BJ:75:ALA:CB	2.92	0.41
39:BT:114:ARG:NE	39:BT:116:ASN:HB2	2.35	0.41
1:AA:825:G:O2'	1:AA:826:C:H5'	2.20	0.41
3:AB:32:GLN:HE22	3:AB:152:SER:CB	2.21	0.41
1:AA:62:U:H4'	1:AA:385:C:H2'	1.71	0.41
37:BR:71:LYS:HG2	37:BR:72:LYS:N	2.36	0.41
18:B3:1116:U:H1'	18:B3:1225:C:O5'	2.20	0.41
27:BH:103:ILE:HG21	27:BH:134:ILE:CB	2.50	0.41
27:BH:112:ILE:C	27:BH:125:ASN:HB3	2.39	0.41
27:BH:94:TYR:HB3	27:BH:176:LEU:O	2.20	0.41
27:BH:24:ILE:CD1	27:BH:25:VAL:H	2.22	0.41
27:BH:44:THR:O	27:BH:45:PHE:CG	2.73	0.41
27:BH:97:PHE:HE2	27:BH:119:GLY:CA	2.33	0.41
32:BM:42:ILE:CD1	32:BM:136:THR:CG2	2.94	0.41
18:B3:2382:A:C4'	46:BZ:12:LYS:HB3	2.46	0.41
18:B3:2853:U:H5'	22:BC:170:LEU:HD21	1.87	0.41
40:BU:85:VAL:HG13	40:BU:86:THR:H	1.85	0.41
41:BV:13:HIS:CD2	41:BV:16:ALA:HA	2.55	0.41
2:AT:737:GLU:HG3	18:B3:1199:A:N1	2.33	0.41
1:AA:1484:C:H3'	18:B3:2002:C:H5'	1.48	0.41
18:B3:1268:C:H5'	42:B0:61:LYS:CG	2.49	0.41
44:BX:4:VAL:CG2	44:BX:5:LYS:N	2.82	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2385:G:H2'	18:B3:2386:U:H6	1.85	0.41
18:B3:2395:A:HO2'	18:B3:2396:C:P	2.44	0.41
15:AO:88:TYR:O	15:AO:92:LYS:HD3	2.20	0.41
4:AC:101:ALA:HB2	4:AC:185:VAL:HG23	2.01	0.41
7:AG:138:ASN:HD21	7:AG:202:LYS:CD	2.32	0.41
18:B3:240:C:H5''	18:B3:270:U:O4	2.20	0.41
19:B4:56:A:C3'	19:B4:57:A:H5''	2.50	0.41
18:B3:558:C:N3	18:B3:600:G:C2	2.88	0.41
31:BL:175:LYS:HZ2	31:BL:175:LYS:HA	1.82	0.41
12:AL:100:ASP:HB3	12:AL:132:LEU:CG	2.49	0.41
21:BB:154:LYS:CD	21:BB:154:LYS:H	2.32	0.41
18:B3:2304:G:C4'	36:BQ:56:PHE:CD1	2.99	0.41
1:AA:458:C:H2'	1:AA:459:G:C8	2.55	0.41
4:AC:33:TYR:HE1	4:AC:35:GLY:CA	2.33	0.41
1:AA:767:A:H2'	1:AA:768:A:O4'	2.20	0.41
18:B3:438:C:HO2'	18:B3:439:A:P	2.44	0.41
9:AI:56:LEU:HD12	9:AI:56:LEU:H	1.84	0.41
18:B3:60:A:O2'	18:B3:61:G:H5'	2.19	0.41
1:AA:50:A:N6	1:AA:361:G:H4'	2.35	0.41
6:AE:161:CYS:HB3	6:AE:208:ASN:HB3	2.01	0.41
2:AT:564:ARG:HG3	2:AT:682:ARG:HB2	2.01	0.41
1:AA:1217:C:O2'	1:AA:1218:C:H5'	2.20	0.41
1:AA:1223:C:H4'	17:AS:100:LYS:NZ	2.34	0.41
1:AA:988:G:C5	1:AA:1015:A:C2	3.09	0.41
13:AM:102:ALA:O	13:AM:105:VAL:HB	2.20	0.41
1:AA:1221:G:C2'	17:AS:101:ALA:O	2.67	0.41
9:AI:36:THR:C	9:AI:39:GLU:HG2	2.40	0.41
9:AI:8:THR:HB	9:AI:87:GLY:CA	2.50	0.41
10:AJ:88:LYS:CG	10:AJ:89:ARG:N	2.83	0.41
19:B4:48:C:C1'	24:BE:158:ARG:HG3	2.48	0.41
24:BE:52:VAL:CG1	24:BE:53:VAL:N	2.84	0.41
24:BE:46:THR:HG1	24:BE:66:SER:HA	1.85	0.41
24:BE:42:ALA:HB2	24:BE:66:SER:HB3	1.95	0.41
18:B3:1427:A:H61	18:B3:1440:U:H1'	1.84	0.41
33:BN:14:ALA:N	33:BN:149:VAL:CG1	2.83	0.41
33:BN:149:VAL:HB	33:BN:150:THR:H	1.48	0.41
33:BN:25:PHE:CE1	33:BN:28:THR:CG2	2.98	0.41
33:BN:27:ASN:HA	33:BN:30:GLU:HG3	2.02	0.41
33:BN:84:ALA:CB	33:BN:85:LYS:HZ2	2.30	0.41
42:B0:106:VAL:HA	42:B0:109:LEU:HG	2.01	0.41
42:B0:103:LYS:C	42:B0:107:VAL:HG13	2.40	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:659:A:N3	18:B3:746:A:C2	2.89	0.41
18:B3:657:G:C4'	23:BD:119:TYR:HE2	2.33	0.41
34:BO:81:VAL:H	34:BO:101:VAL:HG22	1.82	0.41
18:B3:472:A:H5'	45:BY:34:SER:O	2.20	0.41
30:BK:20:GLY:H	30:BK:54:LYS:HD2	1.85	0.41
30:BK:85:LEU:HD21	30:BK:101:SER:O	2.20	0.41
18:B3:1846:U:O3'	21:BB:180:LYS:CA	2.69	0.41
21:BB:103:LEU:CD1	21:BB:138:HIS:CE1	3.02	0.41
21:BB:183:ARG:CA	21:BB:186:HIS:CE1	3.03	0.41
25:BF:179:SER:HA	25:BF:183:LEU:CG	2.50	0.41
25:BF:209:PRO:HG2	25:BF:242:MET:CG	2.41	0.41
18:B3:2468:A:C2	46:BZ:55:PRO:CD	3.02	0.41
1:AA:233:C:O2'	16:AQ:135:ARG:NH2	2.47	0.41
16:AQ:124:VAL:HG21	16:AQ:136:PHE:CB	2.46	0.41
44:BX:24:LEU:CD2	44:BX:24:LEU:N	2.81	0.41
18:B3:2533:C:H5'	18:B3:2533:C:C6	2.52	0.41
18:B3:2547:C:H5''	22:BC:234:THR:OG1	2.20	0.41
18:B3:2913:A:N3	22:BC:125:LYS:C	2.72	0.41
22:BC:10:HIS:CB	22:BC:232:TRP:CD1	2.95	0.41
22:BC:38:LYS:O	22:BC:193:TRP:CD1	2.73	0.41
22:BC:232:TRP:CE2	22:BC:264:ALA:HA	2.55	0.41
22:BC:254:TRP:CE3	22:BC:256:PRO:N	2.88	0.41
22:BC:313:TYR:CZ	22:BC:332:LYS:HB2	2.55	0.41
22:BC:89:VAL:HG23	22:BC:158:ARG:HG2	2.00	0.41
18:B3:2283:G:O5'	28:BI:114:GLY:C	2.59	0.41
28:BI:9:TYR:CB	28:BI:10:ARG:NH2	2.84	0.41
26:BG:105:LYS:HB2	26:BG:108:LEU:HD21	1.99	0.41
26:BG:212:LYS:C	26:BG:212:LYS:HD2	2.40	0.41
26:BG:217:ILE:O	26:BG:218:ASP:HB2	2.20	0.41
31:BL:25:ARG:HE	31:BL:25:ARG:N	2.19	0.41
35:BP:100:VAL:CG2	35:BP:101:LEU:N	2.82	0.41
38:BS:7:SER:O	38:BS:8:PHE:CD2	2.73	0.41
18:B3:2336:G:OP1	29:BJ:103:PHE:CE2	2.73	0.41
20:BA:205:VAL:CG1	20:BA:206:VAL:N	2.83	0.41
20:BA:63:MET:HE3	20:BA:160:LYS:N	2.26	0.41
10:AJ:73:GLY:H	14:AN:38:CYS:CB	2.31	0.41
10:AJ:82:TYR:CE1	14:AN:43:ARG:NH1	2.88	0.41
14:AN:31:ARG:CG	14:AN:32:LYS:N	2.82	0.41
5:AD:179:ARG:HG2	5:AD:184:SER:OG	2.20	0.41
8:AH:33:ILE:CG2	8:AH:34:ILE:N	2.82	0.41
2:AT:465:LYS:CG	2:AT:515:ASP:N	2.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:133:ALA:HB3	9:AI:134:ARG:H	1.72	0.41
18:B3:2558:G:N3	18:B3:2799:A:C2'	2.83	0.41
27:BH:89:LYS:C	27:BH:181:VAL:HG23	2.41	0.41
32:BM:132:ARG:N	32:BM:134:TYR:CZ	2.88	0.41
18:B3:1383:U:C6	43:BW:29:PRO:HG3	2.50	0.41
35:BP:23:LEU:CD2	35:BP:24:ASP:N	2.81	0.41
35:BP:6:GLN:CG	35:BP:7:LYS:N	2.83	0.41
43:BW:60:LYS:O	43:BW:61:ARG:HB2	2.20	0.41
43:BW:11:TYR:CE1	43:BW:72:LEU:HB3	2.44	0.41
18:B3:345:G:H2'	18:B3:346:U:C6	2.55	0.41
18:B3:77:G:O2'	18:B3:78:G:H5'	2.20	0.41
6:AE:204:ARG:HB3	6:AE:207:GLU:HB2	2.02	0.41
18:B3:907:A:C2	18:B3:1328:A:C6	2.94	0.41
1:AA:433:C:O2'	1:AA:434:U:H5'	2.21	0.41
41:BV:124:VAL:CG1	41:BV:125:LYS:N	2.83	0.41
41:BV:143:VAL:CG2	41:BV:144:VAL:H	2.12	0.41
41:BV:81:ILE:HG22	41:BV:82:PRO:HD3	2.02	0.41
18:B3:219:G:C4'	46:BZ:52:GLN:CG	2.95	0.41
18:B3:289:G:C2	18:B3:363:A:H2	2.34	0.41
34:BO:52:LEU:C	34:BO:54:LEU:H	2.24	0.41
19:B4:55:U:HO2'	19:B4:56:A:P	2.43	0.41
30:BK:94:LYS:CG	30:BK:95:ASP:N	2.82	0.41
7:AG:198:ILE:CG2	7:AG:199:ASN:N	2.82	0.41
1:AA:730:G:C5	1:AA:731:G:H1'	2.55	0.41
38:BS:5:ILE:N	38:BS:5:ILE:CD1	2.82	0.41
24:BE:131:LEU:CG	24:BE:132:THR:N	2.83	0.41
18:B3:255:A:O2'	18:B3:256:C:H5'	2.20	0.41
18:B3:1914:C:C2	18:B3:1926:G:C2	3.08	0.41
7:AG:78:ASN:ND2	7:AG:78:ASN:H	2.18	0.41
18:B3:850:U:H2'	18:B3:851:C:O4'	2.19	0.41
2:AT:474:THR:HG22	2:AT:474:THR:O	2.20	0.41
1:AA:1222:G:P	17:AS:81:ARG:CZ	3.05	0.41
17:AS:90:ILE:HG22	17:AS:91:GLY:N	2.34	0.41
18:B3:778:C:H2'	18:B3:779:U:O4'	2.20	0.41
42:B0:57:TYR:CG	42:B0:57:TYR:O	2.73	0.41
18:B3:620:A:OP2	42:B0:39:ASP:C	2.28	0.41
1:AA:1125:U:H5''	1:AA:1126:U:H5	1.85	0.41
7:AG:110:VAL:CG2	7:AG:111:ARG:N	2.84	0.41
24:BE:21:ARG:HH11	24:BE:21:ARG:HD2	1.73	0.41
24:BE:51:LEU:HA	24:BE:64:ILE:CD1	2.51	0.41
36:BQ:63:VAL:HG23	36:BQ:77:ASN:HD22	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:335:C:H2'	1:AA:336:C:C6	2.56	0.41
18:B3:2660:G:C6	18:B3:2812:A:N6	2.89	0.41
33:BN:36:ASN:HB3	33:BN:116:ILE:HG21	2.01	0.41
42:B0:103:LYS:CG	42:B0:104:ASN:N	2.83	0.41
42:B0:78:ASN:O	42:B0:109:LEU:HD13	2.20	0.41
18:B3:1310:U:C5	23:BD:202:ARG:HA	2.54	0.41
18:B3:35:U:H1'	23:BD:48:ALA:H	1.85	0.41
18:B3:672:G:C2	23:BD:236:GLN:OE1	2.70	0.41
18:B3:676:C:H5''	23:BD:234:LEU:H	1.85	0.41
23:BD:31:PRO:HD3	23:BD:243:LEU:HD11	2.03	0.41
34:BO:87:VAL:CG2	34:BO:88:THR:N	2.83	0.41
45:BY:30:LYS:HE3	45:BY:30:LYS:O	2.19	0.41
18:B3:1163:G:H5''	30:BK:54:LYS:CG	2.51	0.41
18:B3:1899:C:O3'	21:BB:225:SER:CA	2.51	0.41
21:BB:119:PRO:HG3	21:BB:160:ASP:OD2	2.20	0.41
21:BB:191:LYS:HE3	21:BB:193:ASN:HB3	2.01	0.41
25:BF:120:LYS:C	25:BF:122:THR:H	2.23	0.41
44:BX:17:LEU:CD1	44:BX:54:VAL:HG22	2.51	0.41
18:B3:2806:C:O3'	22:BC:277:ILE:HD13	2.20	0.41
22:BC:254:TRP:CZ3	22:BC:256:PRO:O	2.73	0.41
22:BC:254:TRP:CZ3	22:BC:256:PRO:CD	3.03	0.41
22:BC:176:HIS:CE1	22:BC:335:VAL:CG1	3.02	0.41
22:BC:98:LEU:N	22:BC:98:LEU:CD2	2.83	0.41
18:B3:1056:U:C6	28:BI:109:ASP:HB3	2.53	0.41
28:BI:42:THR:HG22	28:BI:44:ASP:H	1.86	0.41
18:B3:1003:U:C5'	28:BI:90:ARG:HE	2.31	0.41
18:B3:433:C:O2'	18:B3:434:U:H5'	2.20	0.41
31:BL:47:ALA:HB1	31:BL:52:TYR:CB	2.50	0.41
35:BP:116:LYS:HA	35:BP:119:TYR:CE1	2.53	0.41
35:BP:94:TRP:HE1	35:BP:98:LEU:CD1	2.25	0.41
7:AG:113:ILE:N	7:AG:113:ILE:HD12	2.36	0.41
18:B3:2335:C:H2'	18:B3:2336:G:H8	1.84	0.41
18:B3:2345:A:O3'	29:BJ:64:ILE:CG2	2.68	0.41
29:BJ:31:ARG:CB	29:BJ:34:LYS:HE2	2.40	0.41
18:B3:2347:C:C4'	29:BJ:66:VAL:O	2.68	0.41
18:B3:2168:G:C6	18:B3:2169:C:C4	3.07	0.41
18:B3:1446:U:P	39:BT:70:THR:H	2.43	0.41
39:BT:74:LYS:HB3	39:BT:81:LEU:HG	2.03	0.41
5:AD:129:ILE:CG2	5:AD:130:THR:N	2.82	0.41
8:AH:16:ALA:HB3	8:AH:24:VAL:HG21	2.00	0.41
1:AA:35:G:H5'	12:AL:130:VAL:HG23	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:362:G:O5'	12:AL:77:ILE:HB	2.13	0.41
1:AA:551:U:O2	12:AL:48:HIS:HE1	2.01	0.41
12:AL:93:LEU:O	12:AL:94:ASN:HB3	2.20	0.41
2:AT:109:VAL:HG11	2:AT:142:VAL:CG2	2.36	0.41
37:BR:64:LYS:CE	37:BR:65:GLY:N	2.82	0.41
18:B3:1228:C:H5''	32:BM:47:PHE:CE2	2.27	0.41
27:BH:101:VAL:HG13	27:BH:113:GLU:CD	2.41	0.41
27:BH:129:ARG:CG	27:BH:153:ASP:HA	2.50	0.41
27:BH:59:ASN:HB3	27:BH:64:HIS:CG	2.55	0.41
27:BH:75:VAL:C	27:BH:77:ASN:H	2.24	0.41
32:BM:49:ASN:O	32:BM:53:TYR:CD1	2.74	0.41
32:BM:51:LEU:HD12	32:BM:51:LEU:N	2.35	0.41
35:BP:18:LYS:HA	35:BP:18:LYS:HZ1	1.80	0.41
35:BP:6:GLN:HB2	35:BP:6:GLN:HE21	1.62	0.41
46:BZ:68:VAL:HG22	46:BZ:69:LEU:N	2.35	0.41
1:AA:864:A:H2'	1:AA:865:A:C8	2.55	0.41
41:BV:10:HIS:CA	41:BV:13:HIS:CE1	3.03	0.41
1:AA:357:G:OP1	1:AA:366:C:H3'	2.21	0.41
1:AA:405:U:N3	5:AD:26:ALA:CA	2.83	0.41
5:AD:32:GLY:O	5:AD:34:PHE:CD2	2.74	0.41
41:BV:74:LEU:HG	41:BV:117:ILE:HG21	2.02	0.41
41:BV:136:LYS:N	41:BV:136:LYS:CD	2.84	0.41
41:BV:81:ILE:CG2	41:BV:82:PRO:CA	2.98	0.41
1:AA:120:A:O4'	1:AA:122:G:N7	2.53	0.41
18:B3:149:G:OP1	45:BY:42:LYS:CA	2.68	0.41
2:AT:757:GLU:CB	18:B3:1171:A:C2'	2.87	0.41
11:AK:92:THR:HG23	11:AK:94:GLY:H	1.86	0.41
18:B3:1529:G:O3'	21:BB:69:ARG:CZ	2.69	0.41
1:AA:643:C:H1'	8:AH:123:LYS:NZ	2.34	0.41
34:BO:52:LEU:CD2	34:BO:84:VAL:HG22	2.50	0.41
4:AC:159:SER:CB	4:AC:167:ILE:CD1	2.94	0.41
2:AT:731:VAL:O	2:AT:769:LYS:HA	2.21	0.41
18:B3:2858:U:H2'	18:B3:2859:C:H6	1.85	0.41
6:AE:136:ILE:HG23	6:AE:136:ILE:O	2.18	0.41
18:B3:2515:C:H2'	18:B3:2516:G:C5'	2.51	0.41
18:B3:132:A:H2'	18:B3:133:U:C6	2.55	0.41
18:B3:333:G:O2'	18:B3:334:G:H5'	2.20	0.41
2:AT:383:SER:O	2:AT:384:LYS:HB3	2.21	0.41
18:B3:526:U:H2'	18:B3:527:U:C6	2.56	0.41
18:B3:1915:U:O2'	18:B3:1916:C:H5'	2.21	0.41
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:125:ILE:HG12	13:AM:129:TRP:CD1	2.56	0.41
13:AM:15:LEU:HB3	13:AM:66:LEU:CD1	2.51	0.41
18:B3:1689:A:N3	33:BN:128:THR:CB	2.64	0.41
42:B0:42:VAL:HA	42:B0:49:ASN:HB2	2.02	0.41
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.38	0.41
10:AJ:94:GLU:HG2	10:AJ:95:ALA:H	1.85	0.41
19:B4:7:G:OP2	24:BE:30:TYR:CZ	2.73	0.41
24:BE:118:THR:HG22	24:BE:130:GLU:OE2	2.21	0.41
36:BQ:96:ILE:HG22	36:BQ:97:LYS:N	2.36	0.41
42:B0:96:ILE:HG13	42:B0:100:ILE:CG2	2.41	0.41
18:B3:23:G:C6	18:B3:24:G:N1	2.89	0.41
18:B3:672:G:H8	23:BD:214:ILE:HG23	1.67	0.41
23:BD:128:THR:HB	23:BD:129:ALA:H	1.57	0.41
23:BD:148:PRO:O	23:BD:247:VAL:HG23	2.21	0.41
23:BD:193:TYR:O	23:BD:193:TYR:CG	2.74	0.41
23:BD:235:LEU:HD12	23:BD:236:GLN:HA	2.02	0.41
18:B3:764:C:H2'	18:B3:765:G:O4'	2.19	0.41
31:BL:82:LYS:HG3	46:BZ:48:GLY:CA	2.51	0.41
30:BK:81:VAL:CG1	30:BK:82:ILE:N	2.83	0.41
18:B3:1846:U:H2'	18:B3:1847:A:C5	2.55	0.41
47:B9:32:GLN:NE2	47:B9:68:TYR:CD2	2.86	0.41
18:B3:1898:G:O2'	21:BB:223:THR:HG23	2.20	0.41
21:BB:28:LEU:N	21:BB:122:ARG:CZ	2.83	0.41
25:BF:185:HIS:O	25:BF:189:THR:HG23	2.21	0.41
18:B3:93:C:O4'	44:BX:42:PRO:CG	2.63	0.41
44:BX:25:LYS:CE	44:BX:25:LYS:CA	2.95	0.41
18:B3:91:G:C2'	44:BX:41:LEU:CB	2.87	0.41
18:B3:2064:U:H2'	18:B3:2065:C:C6	2.55	0.41
18:B3:1133:A:C5	18:B3:2501:G:H1'	2.56	0.41
22:BC:174:LYS:HD2	22:BC:175:ALA:N	2.35	0.41
22:BC:191:VAL:CG2	22:BC:192:ASP:N	2.83	0.41
22:BC:213:MET:HE3	22:BC:344:ASN:ND2	2.36	0.41
28:BI:106:ALA:N	28:BI:111:LEU:HB3	2.32	0.41
28:BI:99:ILE:HD11	28:BI:121:LYS:HE3	2.02	0.41
28:BI:156:ARG:HD3	28:BI:163:GLN:O	2.21	0.41
18:B3:2312:G:OP1	28:BI:22:TYR:CZ	2.68	0.41
28:BI:31:ILE:CD1	28:BI:66:GLU:HA	2.45	0.41
37:BR:12:ARG:N	37:BR:86:ARG:CG	2.81	0.41
37:BR:11:PHE:CB	37:BR:86:ARG:CG	2.94	0.41
26:BG:139:VAL:HG13	26:BG:140:ALA:N	2.34	0.41
31:BL:161:ARG:HG2	31:BL:166:THR:OG1	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:17:VAL:CG2	31:BL:18:LEU:N	2.83	0.41
18:B3:2734:G:OP1	35:BP:79:LYS:CD	2.68	0.41
20:BA:63:MET:CG	20:BA:161:LYS:HZ2	2.33	0.41
20:BA:99:LEU:N	20:BA:99:LEU:CD2	2.84	0.41
18:B3:1676:G:O2'	18:B3:1677:U:H5'	2.20	0.41
4:AC:6:LYS:HA	4:AC:6:LYS:CE	2.35	0.41
3:AB:56:LEU:CD2	3:AB:159:ILE:HG23	2.43	0.41
5:AD:99:LEU:HD12	5:AD:106:GLU:C	2.41	0.41
6:AE:217:ILE:CG2	6:AE:218:GLY:N	2.82	0.41
8:AH:27:ARG:HE	8:AH:28:PRO:CD	2.33	0.41
8:AH:76:PRO:CG	8:AH:129:TYR:CE1	3.03	0.41
8:AH:96:ARG:HG2	8:AH:116:ARG:HH21	1.77	0.41
1:AA:363:A:C6	12:AL:44:GLY:HA3	2.55	0.41
1:AA:383:A:H2'	1:AA:384:G:H5'	2.01	0.41
1:AA:67:C:O2	1:AA:69:G:H2'	2.21	0.41
2:AT:141:THR:HG1	2:AT:481:MET:HB3	1.83	0.41
2:AT:141:THR:C	2:AT:483:PHE:HD2	2.20	0.41
2:AT:539:GLU:OE2	18:B3:2699:A:C4'	2.36	0.41
18:B3:2597:U:C2'	18:B3:2598:U:H5'	2.51	0.41
37:BR:21:ALA:C	37:BR:22:ILE:HD12	2.40	0.41
27:BH:113:GLU:O	27:BH:114:VAL:HG22	2.21	0.41
27:BH:44:THR:O	27:BH:45:PHE:CD1	2.74	0.41
32:BM:124:ARG:HB2	32:BM:124:ARG:CZ	2.51	0.41
6:AE:90:ARG:CD	6:AE:90:ARG:N	2.83	0.41
18:B3:1396:C:H4'	35:BP:2:ASN:HB3	2.03	0.41
40:BU:46:LYS:HD2	40:BU:47:ALA:CA	2.51	0.41
5:AD:48:GLN:CG	5:AD:49:LEU:N	2.82	0.41
41:BV:105:ALA:O	41:BV:108:TYR:CD1	2.74	0.41
1:AA:1502:A:OP2	1:AA:1508:G:C1'	2.63	0.41
18:B3:243:A:O2'	18:B3:376:C:O3'	2.37	0.41
18:B3:2320:U:C2'	46:BZ:3:VAL:HG11	2.43	0.41
18:B3:2633:A:P	21:BB:213:GLY:HA2	2.60	0.41
15:AO:77:ASN:HD22	15:AO:77:ASN:HA	1.64	0.41
20:BA:121:PRO:CG	20:BA:134:PHE:HE1	2.34	0.41
18:B3:2222:C:C4'	20:BA:215:ARG:HH22	2.27	0.41
32:BM:2:VAL:HG12	32:BM:3:GLU:N	2.35	0.41
34:BO:98:LYS:HG3	34:BO:98:LYS:O	2.20	0.41
22:BC:146:GLU:HG3	22:BC:147:LEU:N	2.35	0.41
13:AM:81:ILE:HG23	13:AM:81:ILE:O	2.20	0.41
2:AT:734:GLN:O	2:AT:735:CYS:HB3	2.19	0.41
1:AA:1053:G:C3'	1:AA:1054:C:C5'	2.98	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:100:VAL:CG2	10:AJ:101:LYS:N	2.83	0.41
18:B3:2004:U:C2'	18:B3:2005:G:OP1	2.69	0.41
18:B3:1930:A:C6	18:B3:1931:A:C6	3.09	0.41
18:B3:585:C:H2'	18:B3:586:C:C6	2.56	0.41
18:B3:569:A:H5''	18:B3:587:A:N1	2.36	0.41
1:AA:271:C:O2'	1:AA:272:C:H5'	2.21	0.41
1:AA:989:C:C1'	1:AA:1015:A:H2'	2.40	0.41
1:AA:1328:C:H2'	13:AM:96:LYS:CA	2.51	0.41
13:AM:138:THR:HG21	17:AS:122:THR:HG22	1.77	0.41
1:AA:1331:G:C6	13:AM:41:ARG:HB2	2.49	0.41
1:AA:1297:C:O5'	13:AM:56:LYS:HB2	2.20	0.41
13:AM:66:LEU:HA	13:AM:69:ILE:HG12	2.03	0.41
13:AM:92:ILE:HG22	13:AM:94:ASP:O	2.20	0.41
33:BN:130:ARG:NH2	33:BN:133:GLY:HA2	2.35	0.41
42:B0:40:SER:O	42:B0:41:VAL:HG12	2.21	0.41
9:AI:99:GLN:NE2	9:AI:115:LEU:HG	2.36	0.41
36:BQ:75:ILE:CG2	36:BQ:89:LEU:CB	2.94	0.41
1:AA:317:G:H21	1:AA:1468:A:C1'	2.29	0.41
18:B3:2053:G:O6	33:BN:26:LYS:HD2	2.20	0.41
33:BN:111:LEU:N	33:BN:111:LEU:CD1	2.83	0.41
33:BN:60:ARG:HD2	33:BN:61:ARG:N	2.36	0.41
18:B3:2049:C:OP1	33:BN:80:ALA:O	2.38	0.41
42:B0:107:VAL:CG2	42:B0:108:ILE:N	2.82	0.41
18:B3:553:G:P	42:B0:71:HIS:HD2	2.44	0.41
42:B0:76:VAL:HG13	42:B0:81:ASP:OD1	2.21	0.41
18:B3:1335:C:H5''	42:B0:96:ILE:O	2.19	0.41
18:B3:520:A:C4'	18:B3:1322:G:OP1	2.64	0.41
23:BD:105:TRP:O	23:BD:105:TRP:CG	2.73	0.41
23:BD:181:LEU:HD11	23:BD:185:LYS:CB	2.51	0.41
23:BD:193:TYR:O	23:BD:193:TYR:CD2	2.74	0.41
34:BO:81:VAL:N	34:BO:101:VAL:HG21	2.30	0.41
45:BY:24:ARG:NH1	45:BY:24:ARG:HB3	2.35	0.41
45:BY:17:LEU:O	45:BY:26:PHE:CD1	2.73	0.41
30:BK:128:VAL:HG23	30:BK:129:THR:N	2.34	0.41
47:B9:25:VAL:HG12	47:B9:26:LYS:N	2.36	0.41
21:BB:76:ILE:CD1	21:BB:168:ILE:HD12	2.51	0.41
18:B3:2124:G:C1'	21:BB:229:VAL:HG11	2.41	0.41
21:BB:45:LYS:HB3	21:BB:71:ARG:CZ	2.50	0.41
18:B3:1879:U:O3'	21:BB:9:LYS:HE2	2.20	0.41
25:BF:207:SER:HB2	25:BF:209:PRO:CD	2.48	0.41
25:BF:91:ILE:O	25:BF:91:ILE:HD13	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2830:U:H1'	22:BC:126:LYS:CE	2.51	0.41
22:BC:81:PRO:CG	22:BC:204:VAL:H	2.32	0.41
22:BC:20:ARG:CD	22:BC:268:GLN:HG3	2.41	0.41
22:BC:19:LYS:O	22:BC:271:TYR:CE2	2.74	0.41
22:BC:48:TYR:HE1	22:BC:78:VAL:HG21	1.86	0.41
22:BC:49:LYS:CE	22:BC:50:ALA:CA	2.98	0.41
22:BC:53:THR:HA	38:BS:17:ARG:HE	1.86	0.41
28:BI:153:ARG:HH22	28:BI:154:ARG:CG	2.32	0.41
28:BI:58:GLU:HB2	28:BI:59:GLN:H	1.27	0.41
37:BR:10:LYS:C	37:BR:11:PHE:CD2	2.94	0.41
18:B3:251:C:H2'	18:B3:252:C:C6	2.56	0.41
18:B3:431:G:O2'	18:B3:432:G:H5'	2.20	0.41
18:B3:432:G:H5''	31:BL:115:LEU:HD22	2.03	0.41
31:BL:142:ARG:O	31:BL:143:ARG:HG2	2.20	0.41
18:B3:379:G:N2	31:BL:49:ARG:O	2.48	0.41
18:B3:1706:G:C6	18:B3:1707:G:C6	3.08	0.41
29:BJ:71:ARG:NE	29:BJ:74:LYS:N	2.69	0.41
18:B3:1673:U:C5'	39:BT:109:VAL:CG1	2.89	0.41
39:BT:104:VAL:HG13	39:BT:129:TYR:HB2	2.01	0.41
39:BT:66:ILE:HB	39:BT:83:PHE:HA	2.02	0.41
4:AC:11:VAL:CG1	4:AC:12:ALA:N	2.83	0.41
3:AB:121:ILE:HD11	3:AB:173:TRP:HE1	1.86	0.41
8:AH:76:PRO:HG3	8:AH:129:TYR:CG	2.55	0.41
1:AA:363:A:O2'	1:AA:364:A:H5'	2.20	0.41
1:AA:47:C:C6	1:AA:365:U:H2'	2.55	0.41
1:AA:11:G:HO2'	1:AA:525:C:H1'	1.82	0.41
1:AA:523:A:H62	12:AL:113:ALA:CB	2.17	0.41
1:AA:1373:G:O4'	7:AG:104:GLY:HA3	2.20	0.41
18:B3:2561:C:H5'	18:B3:2777:G:C4'	2.51	0.41
18:B3:2704:C:C4	27:BH:121:LYS:HD2	2.28	0.41
27:BH:94:TYR:C	27:BH:94:TYR:CD1	2.94	0.41
32:BM:126:LEU:N	32:BM:126:LEU:CD2	2.83	0.41
32:BM:128:LEU:HB3	32:BM:131:GLY:C	2.40	0.41
18:B3:1227:C:C5'	32:BM:132:ARG:CZ	2.98	0.41
46:BZ:21:GLN:HE21	46:BZ:21:GLN:HB3	1.54	0.41
18:B3:2459:G:OP1	46:BZ:66:LYS:CA	2.67	0.41
46:BZ:78:THR:O	46:BZ:78:THR:HG23	2.20	0.41
40:BU:39:LEU:CD2	40:BU:106:ILE:CD1	2.99	0.41
40:BU:51:ARG:HH11	40:BU:53:ASP:HB2	1.86	0.41
1:AA:865:A:O2'	1:AA:1079:G:N1	2.41	0.41
1:AA:21:G:C3'	1:AA:884:U:O3'	2.64	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:30:LEU:N	5:AD:30:LEU:HD22	2.36	0.41
41:BV:75:ASP:O	41:BV:78:TRP:CD1	2.74	0.41
32:BM:68:GLY:HA3	32:BM:69:PRO:HA	1.73	0.41
1:AA:923:A:O5'	1:AA:923:A:H8	2.04	0.41
1:AA:579:G:H5'	1:AA:728:A:C1'	2.45	0.41
1:AA:754:C:H1'	15:AO:127:TYR:CE2	2.43	0.41
11:AK:41:VAL:HG23	11:AK:43:GLY:H	1.84	0.41
10:AJ:62:VAL:HG11	10:AJ:64:LYS:HZ1	1.86	0.41
6:AE:98:LYS:HD3	6:AE:116:THR:OG1	2.21	0.41
1:AA:55:A:C2	2:AT:67:GLY:CA	3.00	0.41
32:BM:98:LEU:C	32:BM:101:LEU:HD13	2.40	0.41
32:BM:96:ALA:HB1	32:BM:100:ARG:HH12	1.86	0.41
37:BR:127:PRO:C	37:BR:129:VAL:H	2.24	0.41
18:B3:482:G:H4'	18:B3:508:A:N1	2.36	0.41
4:AC:140:LYS:N	4:AC:146:ALA:HA	2.25	0.41
1:AA:1350:A:N3	7:AG:103:ASN:CA	2.76	0.41
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.21	0.41
18:B3:140:G:C8	18:B3:140:G:C3'	3.04	0.41
1:AA:107:G:O2'	1:AA:108:G:H5'	2.20	0.41
2:AT:202:VAL:CG1	2:AT:208:THR:O	2.68	0.41
2:AT:386:VAL:HG11	2:AT:437:MET:HE3	2.01	0.41
1:AA:1440:C:H2'	1:AA:1441:G:C5'	2.48	0.41
2:AT:167:LEU:N	2:AT:167:LEU:CD1	2.84	0.41
1:AA:373:A:H2'	1:AA:374:A:H8	1.86	0.41
18:B3:394:G:H2'	18:B3:398:U:C6	2.56	0.41
11:AK:104:LEU:HA	11:AK:104:LEU:HD23	1.91	0.41
18:B3:1039:G:H2'	18:B3:1040:A:O4'	2.20	0.41
32:BM:56:PHE:HE2	32:BM:145:GLY:H	1.62	0.41
18:B3:627:G:H2'	18:B3:2071:C:C4	2.56	0.41
13:AM:71:GLN:HA	13:AM:71:GLN:OE1	2.21	0.41
30:BK:130:LYS:HD3	30:BK:130:LYS:HA	1.98	0.41
13:AM:15:LEU:CB	13:AM:66:LEU:CD1	2.97	0.41
13:AM:28:ILE:CG2	13:AM:29:VAL:N	2.84	0.41
17:AS:56:PHE:N	17:AS:80:MET:HE1	2.36	0.41
1:AA:1318:A:C4	17:AS:82:ASN:OD1	2.74	0.41
18:B3:1689:A:N1	33:BN:128:THR:CG2	2.42	0.41
42:B0:43:ARG:O	42:B0:44:ARG:HB2	2.21	0.41
42:B0:51:SER:HB3	42:B0:52:GLN:H	1.41	0.41
9:AI:97:ASP:HA	9:AI:102:ASN:N	2.33	0.41
9:AI:45:PHE:O	9:AI:45:PHE:CD2	2.73	0.41
9:AI:48:TYR:HE1	9:AI:84:ILE:HD12	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:26:LEU:HB2	10:AJ:89:ARG:HB2	2.02	0.41
24:BE:169:GLY:HA2	24:BE:226:TYR:HH	1.86	0.41
24:BE:22:ARG:HH11	24:BE:22:ARG:HD2	1.66	0.41
24:BE:27:LYS:HZ2	24:BE:27:LYS:HB3	1.86	0.41
24:BE:40:HIS:O	24:BE:41:LYS:HE2	2.21	0.41
24:BE:75:LEU:HD11	24:BE:109:THR:CG2	2.48	0.41
24:BE:90:HIS:CD2	24:BE:91:GLY:N	2.86	0.41
18:B3:2424:U:O3'	36:BQ:6:GLY:CA	2.69	0.41
36:BQ:83:ARG:HG2	36:BQ:84:TYR:N	2.23	0.41
18:B3:2662:G:N2	18:B3:2814:A:N7	2.68	0.41
18:B3:525:G:O4'	33:BN:115:HIS:HE1	2.03	0.41
33:BN:115:HIS:O	33:BN:148:VAL:HG23	2.21	0.41
42:B0:71:HIS:HB2	42:B0:73:THR:CG2	2.51	0.41
18:B3:706:G:HO2'	18:B3:707:C:H6	1.69	0.41
18:B3:745:G:C5	34:BO:90:ASP:OD2	2.74	0.41
23:BD:224:VAL:HG22	23:BD:225:GLU:N	2.36	0.41
18:B3:1359:U:H5''	23:BD:91:ASN:HD22	1.85	0.41
18:B3:1163:G:C5'	30:BK:54:LYS:CG	2.99	0.41
21:BB:17:SER:N	21:BB:192:ARG:HG2	2.35	0.41
21:BB:53:ARG:CD	21:BB:54:GLY:N	2.82	0.41
25:BF:102:LEU:N	25:BF:105:LEU:CD2	2.83	0.41
25:BF:146:LEU:O	25:BF:204:PHE:CE2	2.74	0.41
25:BF:220:LYS:O	25:BF:221:HIS:HB3	2.21	0.41
18:B3:2911:C:O2	22:BC:126:LYS:CD	2.69	0.41
22:BC:89:VAL:CG2	22:BC:158:ARG:CG	2.99	0.41
22:BC:162:HIS:HD2	22:BC:175:ALA:HB2	1.85	0.41
22:BC:84:VAL:CG1	22:BC:164:GLN:HE22	2.19	0.41
22:BC:165:ILE:N	22:BC:165:ILE:CD1	2.83	0.41
22:BC:226:GLU:HG2	22:BC:227:GLY:H	1.85	0.41
22:BC:329:GLY:O	22:BC:330:ASN:HB3	2.21	0.41
22:BC:358:ILE:HG23	22:BC:358:ILE:O	2.21	0.41
18:B3:2820:A:C5'	22:BC:90:GLY:N	2.51	0.41
28:BI:131:ILE:CD1	28:BI:131:ILE:H	2.32	0.41
26:BG:152:ILE:CD1	26:BG:162:VAL:CB	2.99	0.41
26:BG:165:LEU:CD2	26:BG:165:LEU:N	2.84	0.41
26:BG:169:CYS:SG	26:BG:170:LYS:N	2.94	0.41
31:BL:104:ARG:NE	31:BL:104:ARG:CA	2.84	0.41
18:B3:1592:G:C2'	35:BP:120:HIS:HE1	2.33	0.41
35:BP:91:GLN:CA	35:BP:94:TRP:CE3	2.94	0.41
7:AG:185:ASN:CB	7:AG:191:GLU:HB2	2.51	0.41
18:B3:2334:C:N4	29:BJ:115:TYR:CB	2.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:155:LYS:HA	29:BJ:158:THR:CG2	2.51	0.41
20:BA:106:LYS:CG	20:BA:107:TYR:CE1	3.00	0.41
18:B3:1673:U:C1'	39:BT:91:LYS:CE	2.71	0.41
18:B3:1672:G:C4'	39:BT:91:LYS:HG2	2.48	0.41
39:BT:91:LYS:HE3	39:BT:91:LYS:N	2.35	0.41
4:AC:12:ALA:O	4:AC:16:PHE:HD1	2.02	0.41
4:AC:15:VAL:CG1	4:AC:16:PHE:N	2.83	0.41
12:AL:135:LEU:HD21	12:AL:144:ARG:HE	1.86	0.41
2:AT:108:HIS:O	2:AT:108:HIS:CD2	2.73	0.41
37:BR:74:MET:CB	37:BR:75:PRO:CA	2.96	0.41
27:BH:144:ILE:HG13	27:BH:145:VAL:N	2.35	0.41
27:BH:44:THR:CB	27:BH:55:VAL:HG11	2.51	0.41
27:BH:78:MET:SD	27:BH:79:ILE:N	2.94	0.41
32:BM:76:SER:HB2	32:BM:103:VAL:HG23	2.03	0.41
32:BM:55:ASP:C	32:BM:57:LEU:H	2.23	0.41
1:AA:778:G:H3'	11:AK:126:ARG:CG	2.50	0.41
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.86	0.41
1:AA:1086:U:O3'	1:AA:1389:C:O2'	2.30	0.41
18:B3:99:A:C1'	40:BU:75:ARG:NH1	2.65	0.41
1:AA:16:A:C2'	1:AA:17:U:H5'	2.51	0.41
41:BV:11:ARG:CG	41:BV:12:GLY:N	2.83	0.41
41:BV:108:TYR:CG	41:BV:109:GLY:N	2.80	0.41
41:BV:137:ILE:HA	41:BV:137:ILE:HD13	1.87	0.41
1:AA:667:G:H1'	15:AO:109:ASP:CG	2.37	0.41
18:B3:2249:G:C2	18:B3:2253:G:C6	3.09	0.41
18:B3:2253:G:O2'	18:B3:2254:G:H5'	2.20	0.41
3:AB:28:VAL:CG2	3:AB:29:GLN:N	2.82	0.41
32:BM:26:LEU:HD21	32:BM:101:LEU:HD12	2.00	0.41
32:BM:26:LEU:HD21	32:BM:97:ALA:C	2.41	0.41
34:BO:95:GLU:HG3	34:BO:97:PRO:HG2	2.03	0.41
33:BN:127:ARG:N	33:BN:138:TYR:H	1.90	0.41
18:B3:289:G:N2	18:B3:363:A:C2	2.61	0.41
1:AA:28:G:O2'	1:AA:295:C:O3'	2.39	0.41
1:AA:258:G:H2'	1:AA:259:G:H8	1.84	0.41
1:AA:741:G:H4'	15:AO:113:ARG:HB2	1.27	0.41
5:AD:76:LEU:HD12	5:AD:79:ARG:NH1	2.36	0.41
42:B0:65:PHE:CD2	42:B0:65:PHE:O	2.74	0.41
1:AA:1350:A:C2'	7:AG:103:ASN:ND2	2.84	0.41
18:B3:95:A:H4'	18:B3:96:A:O5'	2.20	0.41
2:AT:386:VAL:HA	2:AT:387:PRO:HD3	1.88	0.41
18:B3:2893:C:O2'	18:B3:2894:C:H5'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:470:THR:HG21	2:AT:475:ALA:HB1	2.01	0.41
18:B3:1555:G:H4'	18:B3:1630:A:H2	1.85	0.41
4:AC:55:GLN:CG	4:AC:56:ASP:N	2.83	0.41
18:B3:2445:U:H2'	18:B3:2446:G:H8	1.85	0.41
18:B3:1461:U:H2'	18:B3:1462:C:H6	1.86	0.41
18:B3:1656:A:H2'	18:B3:1657:A:C8	2.56	0.41
1:AA:961:U:C2'	1:AA:962:C:H5'	2.51	0.41
18:B3:207:U:H2'	18:B3:208:C:C6	2.56	0.41
18:B3:1029:U:H5'	18:B3:1031:G:N7	2.36	0.41
2:AT:659:ILE:CG2	2:AT:705:ILE:HD13	2.51	0.41
18:B3:1453:G:H2'	18:B3:1454:U:O4'	2.20	0.41
2:AT:83:ASP:O	2:AT:87:LYS:HG3	2.21	0.41
18:B3:1190:A:N3	18:B3:1190:A:H3'	2.35	0.41
10:AJ:63:LEU:HD12	10:AJ:63:LEU:N	2.36	0.41
13:AM:21:ASN:ND2	13:AM:35:ILE:HG23	2.36	0.41
17:AS:116:LEU:HA	17:AS:119:PHE:CD1	2.56	0.41
1:AA:1307:U:H6	13:AM:144:ARG:HH21	0.53	0.41
13:AM:60:GLU:OE1	13:AM:60:GLU:HA	2.21	0.41
17:AS:121:ILE:CD1	17:AS:121:ILE:N	2.83	0.41
17:AS:60:LEU:HD11	17:AS:83:MET:SD	2.61	0.41
42:B0:32:TRP:CZ2	42:B0:53:PRO:CG	3.03	0.41
42:B0:39:ASP:HA	42:B0:44:ARG:HD3	2.02	0.41
9:AI:30:VAL:CG2	9:AI:66:VAL:CG1	2.95	0.41
9:AI:99:GLN:HA	9:AI:114:THR:HA	2.03	0.41
9:AI:117:ILE:HG12	9:AI:118:ALA:N	2.31	0.41
9:AI:30:VAL:O	9:AI:38:VAL:HG21	2.21	0.41
9:AI:48:TYR:HD1	9:AI:51:LEU:HD11	1.85	0.41
10:AJ:116:VAL:CG1	10:AJ:117:VAL:N	2.83	0.41
10:AJ:29:THR:CG2	10:AJ:30:LYS:N	2.83	0.41
24:BE:113:LEU:HD22	24:BE:114:GLY:CA	2.51	0.41
24:BE:31:TYR:O	24:BE:31:TYR:CG	2.73	0.41
24:BE:44:TYR:CE2	24:BE:45:ASN:O	2.74	0.41
24:BE:46:THR:HG1	24:BE:48:LYS:C	2.24	0.41
19:B4:117:G:C2'	24:BE:69:ILE:HG22	2.47	0.41
19:B4:68:G:H21	24:BE:12:TYR:H	1.69	0.41
24:BE:29:ASP:C	24:BE:30:TYR:CD2	2.94	0.41
24:BE:36:LEU:HD22	24:BE:50:ARG:HG2	2.03	0.41
36:BQ:43:LYS:N	36:BQ:95:HIS:CE1	2.89	0.41
1:AA:333:G:N2	1:AA:1435:G:H4'	2.36	0.41
33:BN:40:LEU:HD23	33:BN:111:LEU:O	2.20	0.41
33:BN:93:LEU:CG	33:BN:94:LEU:N	2.82	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:113:VAL:HG22	33:BN:115:HIS:O	2.21	0.41
42:B0:112:ALA:HB1	42:B0:117:ILE:CD1	2.47	0.41
42:B0:79:VAL:HG23	42:B0:109:LEU:CD2	2.26	0.41
42:B0:72:LYS:O	42:B0:93:ALA:HB3	2.20	0.41
34:BO:130:ARG:NE	34:BO:132:PRO:N	2.69	0.41
34:BO:30:VAL:CG2	34:BO:31:LYS:N	2.82	0.41
18:B3:26:U:N1	18:B3:1319:G:C2'	2.84	0.41
18:B3:24:G:N2	18:B3:518:G:H1'	2.35	0.41
18:B3:657:G:O2'	23:BD:119:TYR:HE2	1.74	0.41
23:BD:123:SER:HA	23:BD:126:ALA:CB	2.51	0.41
23:BD:7:VAL:HG13	23:BD:17:ASN:H	1.85	0.41
23:BD:255:THR:CG2	23:BD:256:LYS:N	2.80	0.41
23:BD:22:PRO:HG2	23:BD:25:PHE:CD2	2.56	0.41
34:BO:40:THR:CG2	34:BO:41:ASP:N	2.82	0.41
23:BD:59:THR:HA	23:BD:83:ARG:CD	2.51	0.41
45:BY:27:HIS:C	45:BY:30:LYS:CE	2.90	0.41
45:BY:28:VAL:N	45:BY:30:LYS:HE2	2.36	0.41
18:B3:772:G:N2	45:BY:48:TRP:HB3	2.16	0.41
30:BK:117:ARG:HD2	30:BK:118:ASP:CA	2.50	0.41
30:BK:63:LYS:O	30:BK:70:ALA:HA	2.20	0.41
30:BK:83:THR:CG2	30:BK:84:ALA:N	2.83	0.41
30:BK:98:VAL:HG13	30:BK:142:ARG:HB2	2.02	0.41
18:B3:1861:C:H1'	21:BB:9:LYS:HG3	2.03	0.41
18:B3:797:A:C8	47:B9:12:LYS:HE2	2.55	0.41
47:B9:22:ARG:HE	47:B9:24:GLN:N	2.07	0.41
47:B9:9:ILE:N	47:B9:26:LYS:HG3	2.36	0.41
21:BB:62:PHE:CD2	21:BB:63:ARG:O	2.73	0.41
25:BF:169:GLU:OE2	25:BF:175:TYR:CD1	2.74	0.41
25:BF:116:VAL:CG1	25:BF:122:THR:HG23	2.51	0.41
25:BF:130:GLU:H	25:BF:131:PRO:HD2	1.86	0.41
25:BF:233:GLU:CD	25:BF:236:ASN:HB2	2.41	0.41
1:AA:129(A):G:O2'	16:AQ:137:ASN:CA	2.69	0.41
1:AA:253:U:H2'	1:AA:254:G:C8	2.55	0.41
1:AA:190(E):U:H2'	16:AQ:130:ILE:CA	2.26	0.41
44:BX:31:LEU:HD11	44:BX:40:SER:CB	2.51	0.41
18:B3:2824:C:O3'	18:B3:2825:C:H6	2.04	0.41
22:BC:122:TYR:CG	22:BC:123:LYS:N	2.89	0.41
18:B3:2913:A:C2	22:BC:125:LYS:O	2.74	0.41
22:BC:236:LYS:CB	22:BC:237:LEU:HD23	2.51	0.41
22:BC:247:LYS:HG2	22:BC:247:LYS:O	2.20	0.41
22:BC:303:THR:CG2	22:BC:304:ILE:N	2.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:39:LYS:HB3	28:BI:40:LYS:H	1.60	0.41
37:BR:80:ARG:NH1	37:BR:80:ARG:HB3	2.36	0.41
18:B3:1133:A:N3	18:B3:2501:G:N3	2.68	0.41
18:B3:2283:G:N2	28:BI:104:SER:O	2.53	0.41
18:B3:2671:U:OP1	22:BC:178:ALA:CA	2.62	0.41
18:B3:2825:C:C2	18:B3:2826:G:C5	3.09	0.41
22:BC:229:THR:CG2	22:BC:246:ARG:CG	2.95	0.41
22:BC:241:THR:HG21	22:BC:247:LYS:CE	2.51	0.41
22:BC:260:MET:HB3	32:BM:66:THR:CB	2.45	0.41
22:BC:52:MET:SD	22:BC:77:VAL:CG1	3.06	0.41
28:BI:112:GLN:HA	28:BI:112:GLN:NE2	2.36	0.41
18:B3:2309:C:H5'	28:BI:116:ARG:HG3	1.66	0.41
28:BI:135:ILE:CD1	28:BI:135:ILE:N	2.82	0.41
28:BI:153:ARG:HH12	28:BI:154:ARG:CG	2.33	0.41
28:BI:154:ARG:NH2	28:BI:155:ALA:CB	2.83	0.41
28:BI:157:TYR:CG	28:BI:157:TYR:O	2.74	0.41
28:BI:69:ARG:NH1	28:BI:70:ILE:CA	2.84	0.41
18:B3:2238:A:C2	18:B3:2239:C:C6	3.09	0.41
26:BG:105:LYS:CE	26:BG:105:LYS:HA	2.50	0.41
26:BG:161:LEU:HD23	26:BG:161:LEU:HA	1.95	0.41
26:BG:112:ALA:CB	26:BG:213:LEU:HD12	2.51	0.41
26:BG:160:GLU:OE1	26:BG:163:VAL:HB	2.20	0.41
18:B3:1808:C:P	18:B3:2885:A:C3'	3.09	0.41
18:B3:1809:G:OP1	18:B3:2866:U:P	2.78	0.41
18:B3:2877:G:N2	18:B3:2879:A:H3'	2.36	0.41
35:BP:69:LYS:HG3	35:BP:70:ARG:N	2.35	0.41
18:B3:1808:C:OP1	18:B3:2885:A:C3'	2.65	0.41
18:B3:2734:G:OP1	35:BP:79:LYS:HA	2.20	0.41
18:B3:1805:G:C2'	18:B3:2875:A:C8	2.54	0.41
35:BP:94:TRP:CE3	35:BP:95:ILE:CD1	3.00	0.41
35:BP:92:VAL:O	35:BP:95:ILE:HD13	2.21	0.41
18:B3:2334:C:O2'	18:B3:2335:C:H5'	2.21	0.41
29:BJ:71:ARG:NE	29:BJ:72:GLY:CA	2.84	0.41
29:BJ:17:VAL:HG13	29:BJ:17:VAL:O	2.21	0.41
18:B3:2347:C:C1'	29:BJ:66:VAL:HG13	2.21	0.41
20:BA:157:PHE:CE2	20:BA:165:LEU:CD2	2.94	0.41
18:B3:1673:U:H1'	39:BT:91:LYS:CE	2.48	0.41
1:AA:1061:G:C2'	1:AA:1062:U:H5'	2.51	0.41
39:BT:80:ILE:HD11	39:BT:132:LEU:HD22	2.02	0.41
5:AD:156:ILE:CG2	5:AD:164:PHE:CZ	3.04	0.41
5:AD:175:ARG:CD	5:AD:175:ARG:N	2.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:119:LEU:HD21	3:AB:143:ILE:CG2	2.51	0.41
3:AB:84:ALA:O	3:AB:88:PHE:CD2	2.74	0.41
5:AD:99:LEU:HD11	5:AD:101:VAL:HA	2.00	0.41
1:AA:46:G:H4'	1:AA:47:C:P	2.61	0.41
12:AL:74:VAL:CG2	12:AL:83:VAL:CG2	2.98	0.41
2:AT:465:LYS:HB3	2:AT:515:ASP:N	2.36	0.41
2:AT:106:PRO:HB2	2:AT:107:GLY:H	1.70	0.41
18:B3:164:G:H5''	41:BV:31:ARG:HD2	2.03	0.41
27:BH:44:THR:HB	27:BH:55:VAL:HG11	2.03	0.41
27:BH:109:ALA:O	27:BH:111:PHE:CD2	2.74	0.41
27:BH:117:PHE:HZ	27:BH:122:LYS:O	2.03	0.41
35:BP:52:LYS:N	35:BP:52:LYS:CE	2.83	0.41
35:BP:7:LYS:HZ3	35:BP:8:ARG:HA	1.86	0.41
43:BW:58:ILE:O	43:BW:59:TRP:CD2	2.74	0.41
35:BP:37:ARG:NE	35:BP:37:ARG:CA	2.84	0.41
43:BW:22:VAL:CG1	43:BW:25:LYS:HG2	2.32	0.41
18:B3:2438:G:C8	46:BZ:14:LYS:HD2	2.55	0.41
18:B3:2457:U:O3'	46:BZ:84:LEU:N	2.54	0.41
46:BZ:60:LYS:HZ3	46:BZ:62:LYS:CA	2.34	0.41
46:BZ:25:THR:HG22	46:BZ:70:ARG:O	2.21	0.41
16:AQ:92:TYR:O	16:AQ:92:TYR:CD2	2.74	0.41
40:BU:57:LEU:CD2	40:BU:105:VAL:HB	2.51	0.41
40:BU:40:ARG:CG	40:BU:41:ALA:N	2.83	0.41
18:B3:345:G:H2'	18:B3:346:U:H6	1.85	0.41
18:B3:78:G:C1'	40:BU:25:SER:CB	2.99	0.41
40:BU:72:SER:HB2	40:BU:81:GLN:HB2	1.99	0.41
1:AA:567:G:H2'	1:AA:568:G:O4'	2.21	0.41
1:AA:497:A:O2'	1:AA:498:U:OP1	2.31	0.41
5:AD:29:LYS:HD2	5:AD:29:LYS:HA	1.88	0.41
5:AD:43:TYR:CD2	5:AD:48:GLN:O	2.74	0.41
41:BV:95:LYS:O	41:BV:123:ILE:HD11	2.20	0.41
15:AO:112:PHE:HA	15:AO:115:ILE:CD1	2.49	0.41
18:B3:243:A:H61	18:B3:269:G:C1'	2.33	0.41
11:AK:26:PHE:HD1	11:AK:41:VAL:HG13	1.83	0.41
11:AK:42:THR:CB	11:AK:58:ALA:HB1	2.51	0.41
11:AK:78:VAL:CG1	11:AK:79:HIS:N	2.83	0.41
18:B3:2396:C:C1'	41:BV:46:LYS:HD3	2.50	0.41
19:B4:76:G:C8	19:B4:77:A:H2'	2.55	0.41
4:AC:121:VAL:O	4:AC:125:VAL:HG23	2.21	0.41
4:AC:102:GLU:O	4:AC:106:PHE:CD2	2.73	0.41
4:AC:181:LEU:N	4:AC:181:LEU:CD1	2.83	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:90:LEU:HD11	20:BA:120:VAL:HA	2.02	0.41
34:BO:95:GLU:CG	34:BO:97:PRO:HD2	2.28	0.41
23:BD:9:SER:HB3	23:BD:15:THR:HG21	1.98	0.41
29:BJ:8:MET:CG	29:BJ:9:ARG:N	2.81	0.41
11:AK:19:TYR:CZ	11:AK:84:ALA:HB2	2.55	0.41
34:BO:52:LEU:HD23	34:BO:52:LEU:HA	1.84	0.41
4:AC:159:SER:C	4:AC:161:GLN:H	2.24	0.41
18:B3:1361:C:O2	23:BD:94:ARG:CD	2.69	0.41
1:AA:1286:A:C3'	1:AA:1287:A:C5'	2.88	0.41
18:B3:1187:U:O2	18:B3:1189:A:C8	2.74	0.41
18:B3:200:U:C6	18:B3:200:U:OP1	2.73	0.41
23:BD:153:THR:CG2	23:BD:154:ASP:N	2.83	0.41
23:BD:10:LEU:CD2	23:BD:10:LEU:N	2.84	0.41
3:AB:58:LEU:HD12	3:AB:61:ARG:CZ	2.51	0.41
31:BL:175:LYS:HE3	31:BL:176:GLY:N	2.21	0.41
21:BB:142:GLU:HG3	21:BB:144:LYS:HD2	2.00	0.41
1:AA:1064:G:H1'	1:AA:1190:G:H21	1.85	0.41
6:AE:183:VAL:CG1	6:AE:187:LEU:CD1	2.99	0.41
23:BD:219:ARG:HD2	23:BD:219:ARG:O	2.21	0.41
2:AT:348:ALA:HB1	2:AT:352:ARG:HD3	2.03	0.41
5:AD:46:SER:O	5:AD:47:PHE:CG	2.74	0.41
1:AA:939:G:C6	1:AA:940:C:N4	2.89	0.41
18:B3:1555:G:O2'	18:B3:1556:G:H8	2.03	0.41
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.54	0.41
18:B3:1626:A:C2'	18:B3:1627:G:H5'	2.50	0.41
2:AT:411:VAL:CG1	2:AT:412:ARG:N	2.84	0.41
3:AB:68:ASN:CB	3:AB:69:PRO:CD	2.99	0.41
1:AA:1186:G:H4'	9:AI:127:LYS:CE	2.50	0.41
1:AA:628:G:O2'	1:AA:629:G:H5'	2.21	0.41
18:B3:810:G:O2'	18:B3:811:C:H5'	2.21	0.41
1:AA:182:U:OP2	1:AA:183:G:C8	2.74	0.41
1:AA:224:C:H2'	1:AA:225:C:H6	1.86	0.41
18:B3:277:U:O2'	18:B3:278:A:H5'	2.21	0.41
24:BE:86:TYR:N	24:BE:86:TYR:CD1	2.88	0.41
1:AA:1110:A:O5'	1:AA:1110:A:H8	2.03	0.41
18:B3:934:C:H2'	18:B3:935:G:C8	2.56	0.41
1:AA:965:A:O2'	1:AA:966:G:C5'	2.68	0.41
2:AT:220:PHE:HA	2:AT:224:GLN:OE1	2.21	0.41
1:AA:1224:G:H5'	13:AM:139:LYS:HD3	2.02	0.41
1:AA:958:A:N3	17:AS:101:ALA:CA	2.82	0.41
13:AM:18:LEU:HG	13:AM:101:LEU:CD1	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:18:LEU:N	13:AM:18:LEU:CD2	2.83	0.41
13:AM:69:ILE:HA	13:AM:72:ILE:HG22	2.02	0.41
42:B0:19:ARG:NH1	42:B0:32:TRP:NE1	2.69	0.41
18:B3:1091:U:H5'	42:B0:57:TYR:HA	2.03	0.41
18:B3:540:A:O5'	42:B0:15:LYS:NZ	2.53	0.41
1:AA:1128:C:C2	1:AA:1144:G:N2	2.89	0.41
9:AI:26:GLY:O	9:AI:59:PHE:CZ	2.74	0.41
10:AJ:24:ILE:HG22	10:AJ:26:LEU:CD1	2.50	0.41
18:B3:1018:A:O2'	36:BQ:60:LYS:CD	2.66	0.41
24:BE:103:LEU:O	24:BE:226:TYR:CE1	2.74	0.41
24:BE:176:SER:O	24:BE:180:PHE:CE1	2.75	0.41
19:B4:36:C:N1	24:BE:181:PRO:HB3	2.36	0.41
36:BQ:61:THR:O	36:BQ:78:LYS:HB2	2.20	0.41
18:B3:2087:C:C5'	33:BN:78:THR:CG2	2.48	0.41
42:B0:100:ILE:CD1	42:B0:100:ILE:N	2.83	0.41
23:BD:229:VAL:HG21	23:BD:255:THR:O	2.20	0.41
34:BO:123:THR:CG2	34:BO:125:ASP:HB2	2.50	0.41
34:BO:130:ARG:CZ	34:BO:132:PRO:CB	2.99	0.41
31:BL:80:TYR:O	31:BL:80:TYR:CD1	2.74	0.41
21:BB:91:LYS:HA	21:BB:101:LEU:HD23	2.02	0.41
21:BB:103:LEU:HD13	21:BB:106:VAL:HG12	2.02	0.41
21:BB:15:PHE:CG	21:BB:15:PHE:O	2.74	0.41
21:BB:162:ARG:NE	21:BB:162:ARG:N	2.69	0.41
21:BB:67:LYS:HG3	21:BB:72:GLU:O	2.21	0.41
25:BF:146:LEU:HD23	25:BF:149:LYS:HZ1	1.85	0.41
25:BF:178:LEU:HD22	25:BF:180:ILE:HD11	2.03	0.41
18:B3:67:A:H1'	39:BT:60:LYS:HE3	2.03	0.41
44:BX:48:ARG:HB3	44:BX:48:ARG:HE	1.72	0.41
44:BX:47:VAL:CG1	44:BX:48:ARG:N	2.82	0.41
18:B3:1054:G:C5	28:BI:110:ARG:CD	3.04	0.41
18:B3:2863:G:OP1	38:BS:35:LYS:HA	2.21	0.41
22:BC:156:VAL:O	22:BC:156:VAL:HG23	2.20	0.41
22:BC:206:SER:O	22:BC:208:PHE:HD1	2.04	0.41
22:BC:251:ILE:CG2	22:BC:263:VAL:CG2	2.95	0.41
18:B3:2806:C:C5'	22:BC:343:THR:HA	2.49	0.41
28:BI:91:VAL:CG2	28:BI:92:HIS:N	2.82	0.41
26:BG:203:ARG:CZ	26:BG:207:GLU:HG2	2.51	0.41
31:BL:63:VAL:O	31:BL:128:TYR:CD2	2.74	0.41
31:BL:58:PHE:CD1	31:BL:132:ILE:HG21	2.56	0.41
26:BG:163:VAL:HG22	31:BL:17:VAL:HG21	2.02	0.41
31:BL:185:GLY:CA	31:BL:188:LYS:HE3	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:186:ARG:CD	31:BL:187:ARG:HB3	2.51	0.41
29:BJ:47:SER:HA	29:BJ:64:ILE:HG22	2.02	0.41
29:BJ:68:VAL:HG12	29:BJ:69:THR:O	2.21	0.41
20:BA:9:VAL:HG23	20:BA:10:ARG:N	2.36	0.41
14:AN:30:VAL:HG11	14:AN:33:TYR:HD1	1.86	0.41
1:AA:621:A:H2'	1:AA:622:A:H8	1.85	0.41
3:AB:174:TYR:CD1	3:AB:174:TYR:C	2.94	0.41
8:AH:33:ILE:HD13	8:AH:37:LEU:HG	2.03	0.41
1:AA:25:C:P	12:AL:39:LYS:CE	3.02	0.41
1:AA:1372:U:C5'	9:AI:74:VAL:CB	2.95	0.41
18:B3:2563:U:O2'	18:B3:2564:G:H3'	2.20	0.41
27:BH:115:ARG:O	27:BH:117:PHE:CE1	2.74	0.41
27:BH:146:LEU:CD2	27:BH:146:LEU:N	2.83	0.41
27:BH:129:ARG:HD3	27:BH:153:ASP:HB2	2.03	0.41
27:BH:171:ASP:O	27:BH:175:PHE:CE1	2.74	0.41
27:BH:37:ASN:O	27:BH:38:LEU:HB2	2.21	0.41
27:BH:43:VAL:CG2	32:BM:126:LEU:CB	2.96	0.41
32:BM:128:LEU:H	32:BM:128:LEU:HD22	1.86	0.41
32:BM:36:ARG:HB2	32:BM:36:ARG:HE	1.67	0.41
32:BM:45:GLU:CD	32:BM:46:PHE:CE2	2.95	0.41
1:AA:1070:U:C5'	6:AE:90:ARG:HB3	2.38	0.41
35:BP:23:LEU:HD21	35:BP:31:ILE:HD11	2.02	0.41
18:B3:2382:A:C1'	46:BZ:10:TYR:HD2	2.31	0.41
46:BZ:69:LEU:O	46:BZ:69:LEU:HG	2.21	0.41
40:BU:60:ARG:CG	40:BU:103:LYS:CB	2.99	0.41
40:BU:62:SER:HB3	40:BU:63:LYS:NZ	2.36	0.41
5:AD:30:LEU:O	5:AD:31:ALA:HB3	2.21	0.41
41:BV:68:TRP:CD1	41:BV:106:ALA:O	2.74	0.41
41:BV:123:ILE:HG12	41:BV:123:ILE:O	2.21	0.41
15:AO:120:ARG:HD2	15:AO:123:ARG:NH2	2.36	0.41
18:B3:195:C:H4'	31:BL:178:LYS:HE2	2.03	0.41
18:B3:1773:G:H1'	47:B9:13:TYR:O	2.20	0.41
10:AJ:62:VAL:HG11	10:AJ:83:GLU:CG	2.51	0.41
4:AC:97:ALA:C	4:AC:170:ALA:CB	2.90	0.41
20:BA:90:LEU:HD23	20:BA:90:LEU:O	2.21	0.41
21:BB:31:LEU:HD22	21:BB:36:ARG:CB	2.51	0.41
18:B3:282:C:C2'	18:B3:283:U:C5'	2.99	0.41
35:BP:125:GLU:OE2	35:BP:130:ALA:HB2	2.20	0.41
40:BU:89:LYS:HD3	40:BU:92:GLY:H	1.85	0.41
18:B3:314:G:H21	18:B3:337:A:H62	1.69	0.41
18:B3:545:G:C8	18:B3:545:G:H5'	2.47	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1288:U:H5'	25:BF:108:THR:HG21	2.02	0.41
12:AL:55:GLU:OE1	12:AL:57:LEU:HD21	2.21	0.41
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.54	0.41
1:AA:647:C:H2'	1:AA:648:A:C8	2.54	0.41
1:AA:570:G:H1'	1:AA:820:U:C4	2.56	0.41
18:B3:1029:U:O2'	18:B3:1273:C:OP1	2.30	0.41
29:BJ:100:ASN:HD22	29:BJ:100:ASN:HA	1.50	0.41
18:B3:1764:C:H2'	18:B3:1765:G:O4'	2.21	0.41
1:AA:589:C:OP1	8:AH:5:VAL:HG21	2.21	0.41
13:AM:77:THR:O	13:AM:79:TYR:CD2	2.74	0.41
18:B3:512:G:O3'	18:B3:513:A:H8	2.04	0.41
18:B3:2640:U:H2'	18:B3:2641:C:C6	2.56	0.41
18:B3:1538:C:O2'	18:B3:1539:U:H5'	2.21	0.41
18:B3:1269:G:H2'	18:B3:1270:U:C6	2.56	0.41
5:AD:180:LYS:H	5:AD:180:LYS:HD2	1.85	0.41
1:AA:1221:G:C8	17:AS:79:HIS:CA	2.85	0.40
13:AM:91:ASP:HB3	13:AM:113:LEU:N	2.36	0.40
13:AM:86:LEU:CD2	13:AM:98:TYR:HB2	2.40	0.40
1:AA:958:A:N3	17:AS:101:ALA:CB	2.62	0.40
45:BY:9:LYS:CE	45:BY:10:ARG:N	2.83	0.40
18:B3:538:C:P	42:B0:21:HIS:CD2	3.14	0.40
1:AA:1127:G:N2	1:AA:1144:G:N2	2.69	0.40
1:AA:1162:C:H2'	1:AA:1163:C:H6	1.86	0.40
9:AI:99:GLN:CB	9:AI:114:THR:HA	2.51	0.40
9:AI:8:THR:CB	9:AI:86:LYS:HB3	2.51	0.40
24:BE:144:VAL:CG1	24:BE:145:PHE:N	2.83	0.40
19:B4:50:G:O4'	24:BE:94:ASN:CA	2.64	0.40
36:BQ:92:ARG:HG3	36:BQ:93:VAL:HG22	2.02	0.40
18:B3:2089:A:C5'	33:BN:68:ARG:NH2	2.78	0.40
33:BN:107:ASP:HB2	33:BN:110:LYS:HG2	2.04	0.40
33:BN:38:TRP:CE3	33:BN:42:LYS:CG	2.95	0.40
18:B3:1308:A:H1'	23:BD:239:PRO:HB2	2.01	0.40
23:BD:123:SER:O	23:BD:124:ALA:CB	2.69	0.40
23:BD:30:ARG:HG3	23:BD:33:ILE:CD1	2.45	0.40
18:B3:1348:A:H2'	23:BD:39:THR:OG1	2.17	0.40
34:BO:115:VAL:CG1	34:BO:116:LYS:N	2.81	0.40
34:BO:122:ILE:C	34:BO:122:ILE:HD12	2.41	0.40
18:B3:2120:U:H2'	18:B3:2121:G:O4'	2.21	0.40
30:BK:112:ILE:CB	30:BK:132:ILE:HD13	2.51	0.40
47:B9:28:LEU:CD1	47:B9:28:LEU:N	2.83	0.40
47:B9:54:TRP:O	47:B9:54:TRP:CD1	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:75:PHE:CD2	21:BB:76:ILE:O	2.74	0.40
18:B3:694:A:H2'	18:B3:695:C:H5'	2.03	0.40
25:BF:98:PRO:HA	25:BF:101:VAL:HG12	2.04	0.40
16:AQ:109:HIS:CG	16:AQ:130:ILE:HD13	2.55	0.40
44:BX:20:GLN:H	44:BX:23:ASP:CG	2.25	0.40
44:BX:24:LEU:HD13	44:BX:24:LEU:HA	1.70	0.40
18:B3:1742:A:P	18:B3:2723:G:O3'	2.78	0.40
18:B3:2819:C:H2'	22:BC:100:SER:HB2	2.02	0.40
18:B3:2845:G:O2'	18:B3:2846:C:H5'	2.20	0.40
22:BC:253:ALA:O	22:BC:254:TRP:CG	2.74	0.40
18:B3:2653:A:C4'	22:BC:256:PRO:CB	2.87	0.40
22:BC:72:VAL:HA	37:BR:87:ARG:NH1	2.36	0.40
28:BI:112:GLN:HB3	28:BI:112:GLN:HE22	1.32	0.40
28:BI:146:ASP:OD2	28:BI:149:VAL:HB	2.21	0.40
28:BI:15:LYS:HG2	28:BI:16:PRO:HD3	2.03	0.40
28:BI:48:LEU:C	28:BI:48:LEU:HD23	2.38	0.40
28:BI:92:HIS:O	28:BI:94:PHE:CD1	2.75	0.40
28:BI:96:VAL:HG12	28:BI:97:LEU:N	2.36	0.40
37:BR:95:PHE:HE2	38:BS:28:ILE:HB	1.86	0.40
26:BG:188:LEU:HD23	26:BG:188:LEU:HA	1.57	0.40
31:BL:148:ASN:O	31:BL:149:TRP:CD2	2.74	0.40
31:BL:158:ARG:CG	31:BL:159:GLU:N	2.83	0.40
18:B3:1809:G:H22	18:B3:2732:U:H4'	1.84	0.40
18:B3:1815:A:C4	18:B3:2734:G:N1	2.83	0.40
35:BP:117:HIS:CB	35:BP:118:LEU:HD12	2.46	0.40
35:BP:118:LEU:N	35:BP:118:LEU:CD1	2.83	0.40
29:BJ:16:LEU:N	29:BJ:16:LEU:CD1	2.83	0.40
20:BA:30:GLU:HG2	20:BA:209:SER:HB2	2.03	0.40
20:BA:59:PRO:HB2	20:BA:61:PRO:HD2	2.03	0.40
20:BA:59:PRO:HD2	20:BA:153:SER:HA	2.03	0.40
39:BT:83:PHE:CG	39:BT:83:PHE:O	2.73	0.40
39:BT:95:LYS:O	39:BT:98:VAL:HB	2.20	0.40
1:AA:619:U:H6	5:AD:142:ASN:ND2	2.19	0.40
3:AB:150:SER:HA	3:AB:151:PRO:HD3	1.90	0.40
6:AE:156:LYS:O	8:AH:127:PHE:CZ	2.74	0.40
8:AH:100:TYR:CD1	8:AH:100:TYR:C	2.95	0.40
1:AA:11:G:C2'	1:AA:525:C:H1'	2.51	0.40
12:AL:103:LEU:HB2	12:AL:125:VAL:HG12	2.03	0.40
1:AA:24:U:O3'	12:AL:39:LYS:HE3	2.19	0.40
12:AL:40:SER:C	12:AL:42:PRO:HD3	2.36	0.40
2:AT:108:HIS:HB2	2:AT:536:LEU:CD2	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:140:GLU:CB	2:AT:481:MET:SD	2.51	0.40
18:B3:1993:C:C4'	37:BR:72:LYS:N	2.85	0.40
37:BR:62:VAL:HG22	37:BR:62:VAL:H	1.49	0.40
18:B3:1116:U:O5'	18:B3:1225:C:N3	2.45	0.40
27:BH:40:HIS:HB2	27:BH:41:ILE:CD1	2.50	0.40
27:BH:78:MET:CE	27:BH:79:ILE:CG1	2.94	0.40
32:BM:108:PRO:HA	32:BM:109:PRO:HD3	1.86	0.40
32:BM:85:GLY:O	32:BM:86:MET:HB2	2.21	0.40
18:B3:1382:G:HO2'	43:BW:26:LYS:CG	2.13	0.40
35:BP:20:LYS:CA	35:BP:51:LYS:HG2	2.50	0.40
1:AA:1406:U:C2	1:AA:1518:A:C5'	2.96	0.40
1:AA:728:A:H2'	1:AA:729:A:C8	2.56	0.40
1:AA:1340:A:C2'	9:AI:141:TYR:CE1	2.81	0.40
18:B3:157:G:HO2'	31:BL:95:ARG:HH22	1.65	0.40
26:BG:186:GLY:HA3	26:BG:194:SER:HA	2.04	0.40
27:BH:140:VAL:CG2	27:BH:141:LYS:H	2.34	0.40
4:AC:58:LEU:CG	4:AC:62:GLY:HA2	2.51	0.40
2:AT:644:ASN:HD22	2:AT:684:VAL:HB	1.85	0.40
1:AA:769:G:H4'	1:AA:1513:A:H4'	2.03	0.40
18:B3:1782:G:O2'	18:B3:1783:A:H5'	2.21	0.40
18:B3:1388:U:H2'	18:B3:1389:G:O4'	2.21	0.40
18:B3:1821:A:O2'	18:B3:1822:A:H5'	2.21	0.40
6:AE:93:GLN:O	6:AE:93:GLN:HG3	2.21	0.40
34:BO:135:GLN:NE2	34:BO:135:GLN:HA	2.36	0.40
1:AA:1300:G:C2'	1:AA:1301:U:OP2	2.70	0.40
13:AM:46:VAL:HG11	13:AM:73:MET:CG	2.51	0.40
1:AA:979:C:HO2'	17:AS:58:LYS:HE3	1.78	0.40
42:B0:15:LYS:HD2	42:B0:16:LYS:O	2.21	0.40
42:B0:41:VAL:CG1	42:B0:42:VAL:H	2.27	0.40
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.65	0.40
1:AA:1249:C:H1'	9:AI:73:HIS:CG	2.52	0.40
1:AA:1276:G:O2'	1:AA:1277:C:H5'	2.22	0.40
10:AJ:22:ILE:CD1	10:AJ:96:PRO:HB3	2.51	0.40
19:B4:48:C:N1	24:BE:158:ARG:HG3	2.36	0.40
18:B3:1019:C:C5'	36:BQ:78:LYS:HG3	2.51	0.40
18:B3:492:C:O2'	33:BN:99:ALA:C	2.60	0.40
33:BN:109:THR:CG2	33:BN:110:LYS:N	2.82	0.40
33:BN:25:PHE:CZ	33:BN:28:THR:HG23	2.56	0.40
33:BN:69:THR:HG22	33:BN:70:ALA:O	2.22	0.40
18:B3:1306:U:C5	23:BD:194:ARG:CZ	2.88	0.40
23:BD:181:LEU:HB3	23:BD:183:SER:O	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1344:G:OP2	23:BD:192:LYS:CG	2.69	0.40
23:BD:34:VAL:O	23:BD:38:PHE:CE1	2.74	0.40
23:BD:57:HIS:O	23:BD:83:ARG:HD3	2.21	0.40
30:BK:108:GLU:HA	30:BK:111:GLU:CG	2.51	0.40
21:BB:171:GLY:C	47:B9:67:ALA:CB	2.88	0.40
21:BB:116:GLU:N	21:BB:162:ARG:CD	2.82	0.40
21:BB:53:ARG:HG2	21:BB:55:ALA:O	2.21	0.40
1:AA:265:G:H4'	16:AQ:131:SER:N	2.35	0.40
44:BX:40:SER:HB3	44:BX:44:ILE:CG2	2.50	0.40
44:BX:49:LYS:HZ3	44:BX:50:SER:HA	1.85	0.40
44:BX:58:ILE:CG1	44:BX:59:ASN:N	2.82	0.40
18:B3:2765:C:H3'	37:BR:12:ARG:CZ	2.51	0.40
22:BC:109:LEU:HD23	22:BC:118:TYR:CE1	2.56	0.40
18:B3:2809:G:C4'	22:BC:16:LEU:H	2.33	0.40
22:BC:37:SER:HB2	22:BC:183:ASN:O	2.21	0.40
22:BC:206:SER:O	22:BC:208:PHE:CD1	2.74	0.40
22:BC:225:PHE:CD1	22:BC:225:PHE:O	2.75	0.40
22:BC:229:THR:N	22:BC:234:THR:HG22	2.35	0.40
18:B3:2038:A:OP2	22:BC:236:LYS:HG2	2.21	0.40
22:BC:48:TYR:CE1	22:BC:78:VAL:HG21	2.56	0.40
22:BC:81:PRO:CB	22:BC:82:PRO:CA	2.99	0.40
28:BI:136:PHE:CD1	28:BI:136:PHE:O	2.74	0.40
28:BI:88:ARG:HG3	28:BI:90:ARG:HH12	1.86	0.40
37:BR:15:LEU:H	37:BR:15:LEU:HD22	1.86	0.40
38:BS:23:ARG:HD2	38:BS:28:ILE:HG12	2.02	0.40
18:B3:187:A:C6	18:B3:188:C:N3	2.89	0.40
31:BL:105:VAL:HG12	31:BL:133:LEU:HD11	2.03	0.40
31:BL:10:GLN:HG2	31:BL:46:LYS:HZ1	1.85	0.40
18:B3:1788:U:N3	18:B3:2882:G:O2'	2.29	0.40
18:B3:1805:G:H22	18:B3:2882:G:HO2'	1.57	0.40
18:B3:2880:A:H2'	18:B3:2881:C:O4'	2.21	0.40
18:B3:1808:C:C6	18:B3:2884:G:H5''	2.55	0.40
35:BP:114:ILE:CG1	35:BP:118:LEU:HB2	2.51	0.40
18:B3:166:A:N3	41:BV:42:ILE:HD13	2.36	0.40
18:B3:2336:G:C4'	29:BJ:101:PHE:CD2	3.01	0.40
29:BJ:163:LYS:HA	29:BJ:167:ASP:O	2.21	0.40
29:BJ:71:ARG:CZ	29:BJ:71:ARG:C	2.89	0.40
20:BA:107:TYR:N	20:BA:107:TYR:CD1	2.89	0.40
20:BA:54:LYS:N	20:BA:157:PHE:CB	2.64	0.40
20:BA:99:LEU:HD22	20:BA:99:LEU:H	1.86	0.40
39:BT:125:LEU:HD23	39:BT:125:LEU:HA	1.71	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:615:C:H5''	5:AD:149:ARG:HB3	0.89	0.40
8:AH:78:PHE:CD2	8:AH:79:ASN:O	2.74	0.40
1:AA:382:A:C2	1:AA:383:A:C4	3.09	0.40
2:AT:108:HIS:CB	2:AT:536:LEU:HD21	2.49	0.40
37:BR:22:ILE:HG23	37:BR:33:ASN:HD22	1.85	0.40
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.36	0.40
27:BH:175:PHE:O	27:BH:175:PHE:CG	2.71	0.40
27:BH:46:THR:CA	27:BH:55:VAL:CG2	2.95	0.40
27:BH:54:LYS:NZ	27:BH:72:LYS:HD2	2.37	0.40
32:BM:45:GLU:OE2	32:BM:46:PHE:CE2	2.74	0.40
1:AA:676:A:C8	11:AK:121:PRO:HD2	2.55	0.40
18:B3:1396:C:O4'	35:BP:2:ASN:CB	2.69	0.40
35:BP:8:ARG:HH22	35:BP:18:LYS:CE	2.34	0.40
35:BP:41:ARG:H	35:BP:43:LEU:HD22	1.85	0.40
35:BP:22:TRP:CE2	35:BP:49:ILE:HA	2.52	0.40
40:BU:28:ARG:HG3	40:BU:29:VAL:N	2.37	0.40
40:BU:38:GLU:HG3	40:BU:39:LEU:H	1.86	0.40
40:BU:58:VAL:CG1	40:BU:66:GLN:H	2.33	0.40
41:BV:9:LYS:HD3	41:BV:9:LYS:H	1.86	0.40
1:AA:405:U:P	5:AD:37:LYS:CG	3.09	0.40
18:B3:2663:U:C2	18:B3:2816:A:N1	2.88	0.40
40:BU:15:ALA:O	40:BU:16:ARG:HB2	2.20	0.40
11:AK:13:PHE:HZ	11:AK:79:HIS:CE1	2.39	0.40
6:AE:107:ASN:HA	6:AE:143:TRP:N	2.36	0.40
30:BK:40:LYS:O	30:BK:40:LYS:HD3	2.21	0.40
24:BE:197:SER:O	24:BE:223:PHE:CE1	2.74	0.40
20:BA:5:THR:HG22	20:BA:8:GLN:CD	2.42	0.40
20:BA:5:THR:CG2	20:BA:8:GLN:H	2.32	0.40
7:AG:99:ASN:N	7:AG:99:ASN:HD22	2.20	0.40
18:B3:2318:C:OP1	46:BZ:88:LYS:HG2	2.21	0.40
1:AA:397:A:H5'	1:AA:398:C:P	2.61	0.40
18:B3:1555:G:C4'	18:B3:1630:A:H2	2.35	0.40
1:AA:1022:G:HO2'	1:AA:1023:G:H8	1.67	0.40
17:AS:69:GLU:CG	17:AS:70:ASN:N	2.85	0.40
1:AA:1262:C:C2	1:AA:1263:C:C5	3.09	0.40
18:B3:1540:G:O2'	18:B3:1541:G:H5'	2.21	0.40
2:AT:750:LYS:HB3	2:AT:776:GLU:HB3	2.03	0.40
22:BC:60:ASP:O	22:BC:62:PRO:HD2	2.21	0.40
1:AA:988:G:HO2'	1:AA:1014:A:H3'	1.84	0.40
13:AM:125:ILE:CG2	13:AM:126:ARG:N	2.84	0.40
13:AM:132:ARG:CD	13:AM:145:ARG:HB2	2.52	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:29:LYS:HE3	9:AI:65:ARG:CG	2.36	0.40
9:AI:51:LEU:CD1	9:AI:84:ILE:HD13	2.48	0.40
24:BE:150:LEU:HA	24:BE:150:LEU:HD22	1.95	0.40
24:BE:24:ARG:NH1	24:BE:25:GLU:H	2.19	0.40
24:BE:34:LYS:HE3	36:BQ:27:LEU:HB3	1.70	0.40
36:BQ:97:LYS:HG3	36:BQ:98:HIS:N	2.26	0.40
18:B3:497:A:H2'	18:B3:498:A:H5'	2.03	0.40
33:BN:44:GLN:HA	33:BN:47:LEU:CD2	2.43	0.40
42:B0:117:ILE:HG12	42:B0:117:ILE:O	2.20	0.40
18:B3:25:A:H2'	18:B3:1320:U:H4'	2.04	0.40
18:B3:1339:G:C6	18:B3:1340:G:N1	2.89	0.40
18:B3:1350:U:C5	23:BD:43:LYS:CE	3.04	0.40
18:B3:721:A:P	34:BO:72:LYS:CA	2.87	0.40
18:B3:1344:G:H1'	23:BD:188:ALA:HB3	1.25	0.40
23:BD:210:GLU:CG	23:BD:211:ASP:H	2.19	0.40
23:BD:229:VAL:CA	23:BD:232:LEU:CD2	2.94	0.40
18:B3:449:A:C3'	23:BD:46:ARG:NE	2.84	0.40
45:BY:26:PHE:CZ	45:BY:27:HIS:O	2.74	0.40
21:BB:138:HIS:CD2	21:BB:145:THR:HB	2.57	0.40
21:BB:188:TYR:CE1	21:BB:193:ASN:CG	2.95	0.40
21:BB:188:TYR:CD1	21:BB:193:ASN:CG	2.95	0.40
25:BF:115:PHE:CZ	25:BF:187:ILE:O	2.75	0.40
25:BF:178:LEU:CB	25:BF:180:ILE:CD1	2.96	0.40
19:B4:87:U:C4'	25:BF:217:ARG:NH2	2.73	0.40
16:AQ:81:ARG:CD	16:AQ:109:HIS:CE1	3.04	0.40
16:AQ:70:LEU:O	16:AQ:123:THR:HA	2.21	0.40
44:BX:9:LEU:HD12	44:BX:53:CYS:SG	2.61	0.40
18:B3:1132:A:HO2'	18:B3:2521:A:C3'	2.02	0.40
18:B3:2652:U:C2	22:BC:257:ALA:HB3	2.39	0.40
18:B3:2823:G:O2'	18:B3:2824:C:H5'	2.21	0.40
22:BC:20:ARG:HH11	22:BC:20:ARG:HG2	1.87	0.40
22:BC:238:PRO:C	22:BC:240:LYS:HD2	2.42	0.40
22:BC:261:TRP:CE3	22:BC:263:VAL:N	2.81	0.40
22:BC:270:GLY:O	22:BC:271:TYR:CD1	2.74	0.40
22:BC:332:LYS:N	22:BC:332:LYS:CE	2.82	0.40
22:BC:42:LEU:CD2	22:BC:45:PHE:HD2	2.35	0.40
28:BI:34:TYR:O	28:BI:34:TYR:CD2	2.74	0.40
18:B3:969:G:H4'	28:BI:40:LYS:HB3	2.03	0.40
37:BR:91:VAL:HG12	37:BR:92:PHE:N	2.37	0.40
18:B3:2709:G:H4'	37:BR:9:THR:CA	2.46	0.40
38:BS:20:LEU:N	38:BS:20:LEU:HD23	2.37	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:189:A:H2'	18:B3:190:G:O4'	2.22	0.40
18:B3:2123:A:C5'	31:BL:88:VAL:CG2	2.88	0.40
18:B3:251:C:OP1	31:BL:143:ARG:NE	2.54	0.40
26:BG:141:LEU:HD11	26:BG:150:VAL:CG1	2.47	0.40
26:BG:206:ASP:CG	26:BG:209:ALA:HB3	2.39	0.40
31:BL:164:THR:CG2	31:BL:165:ALA:N	2.82	0.40
31:BL:13:LYS:HE3	31:BL:18:LEU:CD2	2.51	0.40
31:BL:13:LYS:NZ	31:BL:21:LEU:HD11	2.37	0.40
18:B3:2735:U:H2'	18:B3:2736:U:C6	2.56	0.40
18:B3:1815:A:H8	18:B3:2750:G:C2	2.39	0.40
35:BP:65:HIS:CG	35:BP:66:ALA:N	2.88	0.40
18:B3:920:C:P	41:BV:39:HIS:O	2.79	0.40
18:B3:2334:C:O4'	29:BJ:113:ILE:CA	2.67	0.40
29:BJ:16:LEU:HB3	29:BJ:128:VAL:HA	2.03	0.40
18:B3:1508:C:O2'	18:B3:1509:C:H5'	2.21	0.40
18:B3:1674:C:H5''	39:BT:119:LYS:HE2	1.83	0.40
39:BT:62:ILE:O	39:BT:83:PHE:CD2	2.74	0.40
14:AN:20:CYS:HB2	14:AN:29:LEU:CB	2.52	0.40
14:AN:23:CYS:O	14:AN:24:SER:HB3	2.22	0.40
14:AN:33:TYR:CD1	14:AN:33:TYR:N	2.89	0.40
10:AJ:70:THR:OG1	14:AN:41:CYS:CA	2.69	0.40
5:AD:116:LEU:HD23	5:AD:176:ASN:HD22	1.85	0.40
1:AA:1371:G:H2'	1:AA:1372:U:H6	1.86	0.40
18:B3:2704:C:H2'	18:B3:2705:U:O4'	2.21	0.40
27:BH:45:PHE:CD2	27:BH:45:PHE:O	2.74	0.40
32:BM:136:THR:O	32:BM:137:LEU:CG	2.69	0.40
32:BM:37:ALA:O	32:BM:38:GLU:CB	2.69	0.40
32:BM:52:LYS:O	32:BM:53:TYR:CD1	2.74	0.40
1:AA:778:G:H3'	11:AK:126:ARG:HG3	2.03	0.40
1:AA:779:C:C5'	11:AK:132:ARG:N	2.59	0.40
35:BP:27:GLU:HA	35:BP:30:GLU:OE1	2.21	0.40
35:BP:3:LEU:HD11	35:BP:32:ALA:CA	2.52	0.40
43:BW:59:TRP:CH2	43:BW:66:VAL:HA	2.56	0.40
1:AA:792:A:C5	1:AA:1498:U:OP2	2.70	0.40
1:AA:1499:A:H8	1:AA:1520:G:O2'	2.04	0.40
18:B3:80:A:C4'	40:BU:73:VAL:HG11	2.49	0.40
1:AA:439:A:N6	1:AA:497:A:H1'	2.36	0.40
41:BV:81:ILE:CD1	41:BV:86:ARG:HD2	2.51	0.40
18:B3:2663:U:C2	18:B3:2816:A:N3	2.90	0.40
18:B3:2252:A:H2'	18:B3:2253:G:C5'	2.52	0.40
3:AB:106:PHE:CE2	3:AB:117:PRO:CG	3.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:105:LYS:HB3	4:AC:173:HIS:O	2.21	0.40
20:BA:113:SER:HB2	20:BA:116:LEU:HG	2.03	0.40
6:AE:107:ASN:CA	6:AE:143:TRP:H	2.32	0.40
16:AQ:78:LYS:HE2	16:AQ:78:LYS:CA	2.23	0.40
19:B4:23:U:C4	19:B4:55:U:OP2	2.74	0.40
33:BN:126:ARG:CB	33:BN:137:LYS:CB	2.95	0.40
1:AA:1286:A:C8	1:AA:1287:A:C5'	3.01	0.40
12:AL:100:ASP:HB3	12:AL:132:LEU:HG	2.03	0.40
1:AA:502:G:H2'	1:AA:503:C:C6	2.56	0.40
34:BO:100:THR:HB	34:BO:119:GLY:N	2.36	0.40
2:AT:669:TRP:CD1	2:AT:710:ARG:NH1	2.89	0.40
18:B3:807:A:N1	18:B3:808:A:N3	2.69	0.40
24:BE:231:ILE:CD1	24:BE:231:ILE:N	2.83	0.40
1:AA:147:G:O2'	1:AA:148:G:H5'	2.21	0.40
38:BS:29:PHE:HB3	38:BS:30:ARG:H	1.48	0.40
18:B3:735:C:H2'	18:B3:736:A:H5'	2.03	0.40
5:AD:180:LYS:H	5:AD:180:LYS:CD	2.34	0.40
2:AT:579:SER:HB3	2:AT:708:THR:OG1	2.21	0.40
1:AA:851:G:H2'	1:AA:852:G:H8	1.86	0.40
1:AA:1298:C:C6	13:AM:55:HIS:CG	3.10	0.40
13:AM:117:LYS:CG	13:AM:128:PHE:CE1	3.05	0.40
13:AM:35:ILE:HD12	13:AM:73:MET:CE	2.51	0.40
42:B0:16:LYS:HZ3	42:B0:16:LYS:N	2.17	0.40
9:AI:39:GLU:OE1	9:AI:45:PHE:CD2	2.74	0.40
24:BE:22:ARG:NH2	24:BE:24:ARG:HH22	2.15	0.40
24:BE:32:GLN:O	24:BE:33:ARG:CG	2.68	0.40
36:BQ:42:ILE:HD12	36:BQ:95:HIS:HD1	1.86	0.40
33:BN:36:ASN:HA	33:BN:113:VAL:HG11	2.02	0.40
33:BN:81:ARG:CG	33:BN:82:TRP:N	2.83	0.40
18:B3:1335:C:OP2	42:B0:99:ASN:C	2.60	0.40
23:BD:133:LEU:CD1	23:BD:136:ALA:CB	2.95	0.40
23:BD:137:ARG:NH1	23:BD:245:ARG:HH22	2.20	0.40
23:BD:192:LYS:CD	23:BD:193:TYR:N	2.82	0.40
23:BD:133:LEU:CD2	23:BD:243:LEU:CB	3.00	0.40
18:B3:120:A:C4	45:BY:16:THR:CG2	3.00	0.40
45:BY:17:LEU:HA	45:BY:24:ARG:C	2.42	0.40
45:BY:31:LYS:HZ2	45:BY:31:LYS:N	2.18	0.40
18:B3:1166:G:C8	30:BK:105:GLN:OE1	2.74	0.40
30:BK:46:ILE:HG13	30:BK:47:ALA:H	1.82	0.40
21:BB:10:GLY:O	21:BB:15:PHE:CE1	2.74	0.40
21:BB:236:LEU:H	21:BB:236:LEU:HD12	1.87	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:62:PHE:HD2	21:BB:63:ARG:C	2.25	0.40
21:BB:67:LYS:CG	21:BB:73:GLU:CA	2.99	0.40
21:BB:78:ASN:HA	21:BB:78:ASN:HD22	1.62	0.40
18:B3:947:U:H2'	18:B3:948:G:H8	1.86	0.40
25:BF:219:PHE:O	25:BF:228:PHE:CE1	2.74	0.40
25:BF:239:VAL:HG13	25:BF:240:LYS:N	2.35	0.40
25:BF:206:LEU:HD21	25:BF:242:MET:C	2.42	0.40
18:B3:107:U:O2	44:BX:56:THR:CB	2.70	0.40
18:B3:2615:U:O4'	22:BC:240:LYS:HG3	2.22	0.40
22:BC:105:TRP:CH2	22:BC:138:GLN:HB3	2.57	0.40
22:BC:118:TYR:O	22:BC:119:LYS:HB3	2.22	0.40
22:BC:121:TRP:CE2	22:BC:123:LYS:CG	2.95	0.40
22:BC:87:GLY:C	22:BC:159:VAL:HG23	2.42	0.40
22:BC:18:ARG:CA	22:BC:18:ARG:CZ	2.93	0.40
22:BC:205:ASP:OD1	22:BC:208:PHE:CZ	2.74	0.40
22:BC:232:TRP:CZ3	22:BC:265:ARG:O	2.74	0.40
22:BC:271:TYR:CD1	22:BC:271:TYR:N	2.89	0.40
22:BC:274:ARG:C	22:BC:274:ARG:HH11	2.24	0.40
22:BC:27:ARG:H	22:BC:27:ARG:NE	2.20	0.40
22:BC:91:TYR:CD2	22:BC:91:TYR:N	2.90	0.40
28:BI:51:HIS:CD2	28:BI:152:LEU:HD22	2.56	0.40
31:BL:152:ASP:OD2	31:BL:156:LYS:HE2	2.21	0.40
31:BL:26:VAL:HG21	31:BL:122:GLN:CD	2.41	0.40
18:B3:1788:U:C4'	18:B3:2882:G:C4'	2.95	0.40
18:B3:898:G:C2	41:BV:42:ILE:HG12	2.56	0.40
18:B3:2345:A:O2'	29:BJ:62:GLU:CG	2.67	0.40
29:BJ:16:LEU:O	29:BJ:70:VAL:CG2	2.70	0.40
29:BJ:35:VAL:O	29:BJ:36:LEU:HG	2.21	0.40
20:BA:15:GLU:O	20:BA:19:TYR:CD2	2.74	0.40
20:BA:9:VAL:CG2	20:BA:180:VAL:CG1	2.95	0.40
18:B3:1672:G:H4'	39:BT:91:LYS:HZ2	1.84	0.40
39:BT:80:ILE:CG2	39:BT:125:LEU:HG	2.51	0.40
39:BT:74:LYS:HB3	39:BT:81:LEU:CG	2.51	0.40
18:B3:123:U:C6	39:BT:88:LYS:HE2	2.57	0.40
5:AD:99:LEU:HD23	5:AD:103:ASP:HA	2.02	0.40
5:AD:130:THR:HA	5:AD:142:ASN:HB2	1.99	0.40
1:AA:566:G:OP2	6:AE:165:THR:HB	2.18	0.40
8:AH:10:LEU:HD12	8:AH:79:ASN:HD21	1.82	0.40
8:AH:97:GLN:OE1	8:AH:127:PHE:CE1	2.74	0.40
8:AH:74:ILE:HG13	8:AH:128:VAL:CG2	2.50	0.40
12:AL:128:SER:OG	12:AL:130:VAL:HG23	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:464:LEU:CD1	2:AT:509:LYS:HB2	2.51	0.40
37:BR:28:ASN:OD1	37:BR:102:ILE:HG13	2.21	0.40
1:AA:1373:G:C1'	7:AG:104:GLY:CA	3.00	0.40
18:B3:2559:C:H1'	18:B3:2799:A:C1'	2.52	0.40
18:B3:2575:C:O2	18:B3:2775:A:H2	2.04	0.40
18:B3:1103:C:O2	32:BM:86:MET:HA	2.21	0.40
27:BH:113:GLU:C	27:BH:114:VAL:HG22	2.42	0.40
27:BH:113:GLU:HB2	27:BH:114:VAL:H	1.23	0.40
18:B3:2705:U:H5'	27:BH:122:LYS:HE3	0.42	0.40
27:BH:154:VAL:CG2	27:BH:155:SER:N	2.85	0.40
32:BM:40:LEU:HD23	32:BM:137:LEU:HA	2.04	0.40
32:BM:46:PHE:O	32:BM:47:PHE:CG	2.75	0.40
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.57	0.40
43:BW:58:ILE:O	43:BW:59:TRP:CE3	2.74	0.40
46:BZ:60:LYS:HZ3	46:BZ:62:LYS:CB	2.34	0.40
1:AA:934:C:N4	7:AG:76:TYR:CE1	2.90	0.40
1:AA:1406:U:N3	1:AA:1518:A:O4'	2.51	0.40
40:BU:103:LYS:HD3	40:BU:103:LYS:C	2.41	0.40
32:BM:63:PHE:C	32:BM:63:PHE:CD2	2.94	0.40
12:AL:66:SER:O	12:AL:67:ALA:HB2	2.22	0.40
18:B3:49:A:N3	18:B3:113:A:N3	2.68	0.40
1:AA:125:U:P	1:AA:310:G:H22	2.43	0.40
11:AK:52:ASP:CG	11:AK:53:GLU:N	2.75	0.40
21:BB:199:ARG:CZ	21:BB:199:ARG:H	2.34	0.40
16:AQ:101:LYS:NZ	16:AQ:101:LYS:HB2	2.36	0.40
29:BJ:133:PRO:CG	29:BJ:135:ALA:HB2	2.51	0.40
46:BZ:28:LYS:CE	46:BZ:28:LYS:HA	2.27	0.40
1:AA:707:C:H5''	11:AK:19:TYR:CG	2.55	0.40
1:AA:707:C:C5'	11:AK:19:TYR:CD1	2.96	0.40
7:AG:208:TYR:HE2	7:AG:212:LYS:CE	2.34	0.40
20:BA:194:LEU:CD2	20:BA:200:ASN:HD21	2.18	0.40
16:AQ:118:VAL:HG13	16:AQ:118:VAL:O	2.21	0.40
11:AK:101:LEU:CD1	11:AK:114:ILE:HG13	2.51	0.40
40:BU:89:LYS:CD	40:BU:92:GLY:N	2.82	0.40
1:AA:1091:U:O2	1:AA:1093:A:H8	2.02	0.40
1:AA:460:A:N7	1:AA:462:G:C6	2.89	0.40
18:B3:2488:A:N6	18:B3:2534:C:H42	2.16	0.40
24:BE:177:GLU:HG2	24:BE:178:ASN:H	1.87	0.40
18:B3:353:G:H2'	18:B3:354:A:C8	2.56	0.40
1:AA:584:G:H2'	1:AA:585:G:H8	1.86	0.40
43:BW:37:LYS:HB3	43:BW:37:LYS:NZ	2.37	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:121:PHE:CD2	30:BK:121:PHE:O	2.74	0.40
1:AA:575:G:OP1	1:AA:575:G:H4'	2.21	0.40
1:AA:1221:G:O3'	17:AS:120:SER:CB	2.70	0.40
1:AA:1318:A:O3'	17:AS:84:ILE:CB	2.68	0.40
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.37	0.40
13:AM:84:TRP:C	13:AM:100:THR:HA	2.42	0.40
13:AM:17:LEU:CD2	13:AM:73:MET:SD	3.07	0.40
18:B3:1692:C:O2'	33:BN:129:TYR:OH	2.25	0.40
42:B0:35:GLN:HB3	42:B0:42:VAL:CG1	2.51	0.40
18:B3:621:C:C3'	42:B0:36:LYS:CB	2.79	0.40
1:AA:1131:G:H2'	1:AA:1132:C:H6	1.86	0.40
1:AA:1175:G:N7	9:AI:109:THR:CG2	2.85	0.40
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.21	0.40
10:AJ:34:LEU:C	10:AJ:37:VAL:HG22	2.41	0.40
10:AJ:56:VAL:CG1	10:AJ:58:LEU:HD21	2.51	0.40
19:B4:49:G:C4	24:BE:94:ASN:CA	2.93	0.40
24:BE:183:TRP:O	24:BE:185:PHE:N	2.55	0.40
24:BE:17:GLN:HB3	36:BQ:20:ARG:HB3	1.91	0.40
36:BQ:34:TYR:CE1	36:BQ:97:LYS:CG	3.05	0.40
36:BQ:67:VAL:H	36:BQ:67:VAL:HG12	1.59	0.40
36:BQ:97:LYS:CE	36:BQ:98:HIS:CE1	3.03	0.40
18:B3:496:G:H21	18:B3:1427:A:P	2.45	0.40
18:B3:2087:C:O2'	18:B3:2088:C:H5'	2.22	0.40
33:BN:25:PHE:CD2	33:BN:28:THR:HG21	2.57	0.40
33:BN:37:GLY:N	33:BN:113:VAL:CG1	2.83	0.40
33:BN:85:LYS:N	33:BN:85:LYS:HE3	2.36	0.40
33:BN:92:GLY:N	33:BN:94:LEU:CD1	2.82	0.40
42:B0:103:LYS:CD	42:B0:103:LYS:N	2.83	0.40
18:B3:1342:C:H42	23:BD:186:LEU:CB	2.30	0.40
18:B3:449:A:C6	18:B3:1350:U:C5	3.07	0.40
23:BD:139:HIS:HB3	23:BD:245:ARG:NH1	2.36	0.40
23:BD:7:VAL:HG12	23:BD:17:ASN:N	2.36	0.40
23:BD:214:ILE:O	23:BD:214:ILE:HG12	2.20	0.40
18:B3:1348:A:HO2'	23:BD:39:THR:N	2.09	0.40
34:BO:89:ASP:CB	34:BO:110:ALA:N	2.83	0.40
45:BY:17:LEU:O	45:BY:26:PHE:HD1	2.05	0.40
45:BY:14:SER:CB	45:BY:29:GLN:HE22	2.34	0.40
18:B3:1168:C:P	30:BK:114:ARG:HD3	2.55	0.40
18:B3:1847:A:H4'	21:BB:178:LEU:C	2.22	0.40
18:B3:1852:A:N3	21:BB:237:ILE:HD11	2.37	0.40
18:B3:1872:C:C5	21:BB:19:THR:OG1	2.68	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1876:C:N3	21:BB:171:GLY:O	2.55	0.40
18:B3:2124:G:N3	21:BB:229:VAL:CG1	2.83	0.40
18:B3:796:A:C4'	47:B9:12:LYS:CA	2.69	0.40
47:B9:56:CYS:HB3	47:B9:60:LYS:HA	1.99	0.40
21:BB:242:THR:CG2	21:BB:243:GLY:N	2.82	0.40
21:BB:45:LYS:HB2	21:BB:71:ARG:CZ	2.51	0.40
21:BB:67:LYS:HA	21:BB:67:LYS:HD3	1.83	0.40
25:BF:168:ILE:CG1	25:BF:176:GLY:N	2.81	0.40
1:AA:129(A):G:HO2'	1:AA:130:A:P	2.42	0.40
22:BC:210:GLN:CD	22:BC:352:GLU:HA	2.41	0.40
22:BC:223:HIS:CD2	22:BC:269:ARG:CD	2.99	0.40
18:B3:2064:U:C3'	22:BC:255:HIS:CE1	3.02	0.40
22:BC:363:LYS:HG3	22:BC:364:PHE:H	1.86	0.40
28:BI:50:VAL:HG13	28:BI:166:ILE:HD13	1.99	0.40
37:BR:55:GLY:HA2	37:BR:125:LEU:HD12	2.03	0.40
18:B3:402:U:C1'	31:BL:92:LYS:CG	2.85	0.40
26:BG:114:ALA:HB1	26:BG:149:LEU:HB2	2.04	0.40
31:BL:113:ARG:N	31:BL:113:ARG:HD2	2.37	0.40
31:BL:123:ASP:C	31:BL:125:THR:H	2.23	0.40
31:BL:186:ARG:CD	31:BL:187:ARG:N	2.82	0.40
31:BL:9:LEU:HD11	31:BL:17:VAL:CG2	2.51	0.40
35:BP:69:LYS:C	35:BP:71:GLU:H	2.21	0.40
38:BS:51:TRP:CZ3	38:BS:56:ARG:NE	2.87	0.40
41:BV:37:GLU:HG2	41:BV:39:HIS:CE1	2.56	0.40
29:BJ:37:GLU:HB3	29:BJ:38:GLN:HE22	1.87	0.40
20:BA:9:VAL:O	20:BA:13:VAL:HG23	2.21	0.40
20:BA:108:ASN:CA	20:BA:162:VAL:HG23	2.52	0.40
39:BT:81:LEU:CD2	39:BT:82:VAL:N	2.81	0.40
1:AA:599:C:O3'	8:AH:121:SER:CB	2.69	0.40
3:AB:171:LEU:O	3:AB:174:TYR:CD2	2.74	0.40
1:AA:599:C:C3'	8:AH:121:SER:HB2	2.46	0.40
1:AA:550:G:O2'	1:AA:551:U:H5'	2.21	0.40
12:AL:87:VAL:HG12	12:AL:124:VAL:CG2	2.43	0.40
2:AT:111:PHE:CE2	2:AT:144:ARG:HD3	2.57	0.40
37:BR:64:LYS:CD	37:BR:65:GLY:N	2.82	0.40
18:B3:1119:G:OP2	18:B3:1228:C:OP2	2.39	0.40
18:B3:2780:C:H2'	18:B3:2781:U:H6	1.82	0.40
18:B3:1245:C:C5	32:BM:130:PRO:HB2	2.56	0.40
35:BP:41:ARG:HA	35:BP:44:VAL:HG11	2.00	0.40
35:BP:7:LYS:HD2	35:BP:7:LYS:C	2.40	0.40
35:BP:9:LEU:HA	35:BP:9:LEU:HD22	1.49	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:913:A:H1'	1:AA:914:A:O4'	2.21	0.40
41:BV:5:THR:O	41:BV:9:LYS:HD3	2.22	0.40
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.33	0.40
41:BV:68:TRP:CE2	41:BV:106:ALA:O	2.74	0.40
32:BM:73:ARG:O	32:BM:141:SER:HB3	2.21	0.40
18:B3:196:G:H1'	18:B3:197:C:OP2	2.21	0.40
21:BB:204:ASN:CB	21:BB:212:GLY:CA	3.00	0.40
20:BA:134:PHE:CD2	20:BA:135:PRO:O	2.74	0.40
20:BA:215:ARG:CZ	20:BA:215:ARG:HB3	2.52	0.40
18:B3:10:U:C2'	18:B3:11:A:OP2	2.69	0.40
18:B3:596:C:O2'	18:B3:597:A:H5'	2.22	0.40
20:BA:185:MET:O	20:BA:189:PHE:CD1	2.75	0.40
24:BE:119:TYR:CE1	24:BE:122:VAL:O	2.74	0.40
18:B3:506:G:H22	18:B3:509:A:H5''	1.80	0.40
20:BA:100:ILE:HD12	20:BA:127:GLN:CB	2.51	0.40
1:AA:1167:A:C6	1:AA:1168:A:C6	3.09	0.40
1:AA:1056:U:O2	1:AA:1056:U:H2'	2.21	0.40
1:AA:765:G:N1	1:AA:812:C:H2'	2.34	0.40
18:B3:1494:A:O2'	18:B3:1505:U:O2	2.29	0.40
1:AA:1073:U:OP2	6:AE:94:ARG:NH2	2.54	0.40
1:AA:1019:C:O2'	1:AA:1020:U:H5'	2.22	0.40
20:BA:21:ASN:HB3	20:BA:22:GLU:H	1.65	0.40
1:AA:1207:G:H2'	1:AA:1208:C:H6	1.87	0.40
2:AT:357:TYR:CD2	2:AT:366:CYS:HB2	2.57	0.40
1:AA:224:C:H2'	1:AA:225:C:C6	2.57	0.40
9:AI:128:PHE:CD1	9:AI:128:PHE:C	2.95	0.40
18:B3:1659:A:H2'	18:B3:1660:G:O4'	2.21	0.40
18:B3:1050:G:C6	18:B3:1051:C:C4	3.08	0.40
2:AT:489:VAL:HG12	2:AT:538:LEU:CD2	2.51	0.40
18:B3:355:C:O2'	18:B3:356:C:H5'	2.21	0.40
2:AT:92:LYS:HB2	2:AT:92:LYS:HE3	1.85	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	
2	AT	811/842 (96%)	779 (96%)	24 (3%)	8 (1%)	19	65
3	AB	183/185 (99%)	159 (87%)	17 (9%)	7 (4%)	4	37
4	AC	186/192 (97%)	169 (91%)	7 (4%)	10 (5%)	2	29
5	AD	176/179 (98%)	157 (89%)	15 (8%)	4 (2%)	8	48
6	AE	145/149 (97%)	134 (92%)	8 (6%)	3 (2%)	9	50
7	AG	148/150 (99%)	136 (92%)	10 (7%)	2 (1%)	14	58
8	AH	125/129 (97%)	113 (90%)	6 (5%)	6 (5%)	3	32
9	AI	137/142 (96%)	118 (86%)	11 (8%)	8 (6%)	2	27
10	AJ	95/100 (95%)	80 (84%)	7 (7%)	8 (8%)	1	18
11	AK	123/136 (90%)	110 (89%)	10 (8%)	3 (2%)	7	47
12	AL	116/118 (98%)	101 (87%)	9 (8%)	6 (5%)	2	30
13	AM	127/132 (96%)	121 (95%)	5 (4%)	1 (1%)	24	69
14	AN	27/36 (75%)	23 (85%)	2 (7%)	2 (7%)	1	21
15	AO	63/65 (97%)	60 (95%)	2 (3%)	1 (2%)	12	56
16	AQ	74/76 (97%)	71 (96%)	3 (4%)	0	100	100
17	AS	78/80 (98%)	70 (90%)	7 (9%)	1 (1%)	15	60
20	BA	207/217 (95%)	193 (93%)	9 (4%)	5 (2%)	7	47
21	BB	242/253 (96%)	163 (67%)	48 (20%)	31 (13%)	0	8
22	BC	357/386 (92%)	268 (75%)	55 (15%)	34 (10%)	1	15
23	BD	254/361 (70%)	182 (72%)	42 (16%)	30 (12%)	0	9
24	BE	220/222 (99%)	166 (76%)	31 (14%)	23 (10%)	1	12
25	BF	159/162 (98%)	118 (74%)	27 (17%)	14 (9%)	1	17
26	BG	117/119 (98%)	80 (68%)	21 (18%)	16 (14%)	0	6
27	BH	176/191 (92%)	113 (64%)	36 (20%)	27 (15%)	0	5
28	BI	163/168 (97%)	106 (65%)	43 (26%)	14 (9%)	1	17
29	BJ	163/173 (94%)	113 (69%)	32 (20%)	18 (11%)	0	11
30	BK	127/131 (97%)	117 (92%)	7 (6%)	3 (2%)	7	47
31	BL	192/203 (95%)	128 (67%)	39 (20%)	25 (13%)	0	7
32	BM	144/146 (99%)	106 (74%)	24 (17%)	14 (10%)	1	14
33	BN	145/183 (79%)	101 (70%)	27 (19%)	17 (12%)	0	9

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	BO	118/120 (98%)	82 (70%)	25 (21%)	11 (9%)	1	16
35	BP	139/142 (98%)	89 (64%)	30 (22%)	20 (14%)	0	6
36	BQ	95/100 (95%)	73 (77%)	13 (14%)	9 (10%)	1	15
37	BR	129/137 (94%)	92 (71%)	23 (18%)	14 (11%)	0	11
38	BS	51/56 (91%)	36 (71%)	8 (16%)	7 (14%)	0	6
39	BT	75/83 (90%)	53 (71%)	13 (17%)	9 (12%)	0	8
40	BU	113/126 (90%)	82 (73%)	15 (13%)	16 (14%)	0	6
41	BV	141/148 (95%)	102 (72%)	23 (16%)	16 (11%)	0	10
42	B0	107/130 (82%)	76 (71%)	17 (16%)	14 (13%)	0	7
43	BW	76/112 (68%)	57 (75%)	13 (17%)	6 (8%)	1	19
44	BX	57/120 (48%)	41 (72%)	9 (16%)	7 (12%)	0	8
45	BY	50/87 (58%)	35 (70%)	6 (12%)	9 (18%)	0	4
46	BZ	89/105 (85%)	66 (74%)	17 (19%)	6 (7%)	1	24
47	B9	71/91 (78%)	43 (61%)	17 (24%)	11 (16%)	0	5
All	All	6591/7183 (92%)	5282 (80%)	813 (12%)	496 (8%)	3	21

All (496) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AT	106	PRO
2	AT	108	HIS
2	AT	460	ASP
3	AB	23	LEU
3	AB	27	ASN
4	AC	41	THR
4	AC	43	THR
4	AC	130	ALA
4	AC	151	PHE
5	AD	162	SER
6	AE	85	VAL
7	AG	186	ILE
9	AI	59	PHE
9	AI	99	GLN
9	AI	124	GLU
9	AI	133	ALA
10	AJ	80	GLU
11	AK	123	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AL	63	GLN
12	AL	94	ASN
15	AO	107	ASP
17	AS	70	ASN
20	BA	60	ARG
21	BB	5	ARG
21	BB	32	ASP
21	BB	105	SER
21	BB	118	LYS
21	BB	162	ARG
21	BB	167	VAL
21	BB	202	ALA
21	BB	210	HIS
21	BB	221	ALA
21	BB	233	LYS
22	BC	18	ARG
22	BC	49	LYS
22	BC	81	PRO
22	BC	96	ARG
22	BC	106	ALA
22	BC	118	TYR
22	BC	161	VAL
22	BC	187	ILE
22	BC	195	ARG
22	BC	200	LYS
22	BC	254	TRP
22	BC	271	TYR
22	BC	273	SER
22	BC	311	VAL
22	BC	315	GLU
22	BC	330	ASN
23	BD	38	PHE
23	BD	73	ILE
23	BD	97	ARG
23	BD	124	ALA
23	BD	126	ALA
23	BD	138	GLY
23	BD	171	VAL
23	BD	174	HIS
23	BD	194	ARG
23	BD	198	TRP
23	BD	231	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BE	37	VAL
24	BE	42	ALA
24	BE	64	ILE
24	BE	65	ILE
24	BE	81	HIS
24	BE	98	ALA
24	BE	103	LEU
24	BE	117	GLU
24	BE	126	GLU
24	BE	184	ASP
24	BE	203	HIS
25	BF	106	ARG
25	BF	147	VAL
25	BF	167	ILE
25	BF	190	VAL
25	BF	231	ARG
26	BG	125	SER
26	BG	130	ALA
26	BG	156	VAL
26	BG	157	ASP
26	BG	168	LEU
26	BG	208	ALA
27	BH	25	VAL
27	BH	41	ILE
27	BH	63	LYS
27	BH	67	ALA
27	BH	78	MET
27	BH	93	VAL
27	BH	108	GLY
27	BH	113	GLU
27	BH	152	GLU
27	BH	159	ALA
27	BH	173	ARG
28	BI	15	LYS
28	BI	17	TYR
28	BI	66	GLU
28	BI	68	ALA
28	BI	69	ARG
28	BI	70	ILE
28	BI	84	ALA
28	BI	85	PHE
28	BI	95	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BI	138	VAL
28	BI	146	ASP
29	BJ	64	ILE
29	BJ	66	VAL
29	BJ	68	VAL
29	BJ	70	VAL
29	BJ	71	ARG
29	BJ	78	ILE
29	BJ	92	ASP
29	BJ	133	PRO
29	BJ	142	ARG
30	BK	76	SER
31	BL	37	ARG
31	BL	70	ARG
31	BL	88	VAL
31	BL	131	VAL
32	BM	20	SER
32	BM	23	ALA
32	BM	38	GLU
32	BM	96	ALA
32	BM	98	LEU
32	BM	107	ILE
32	BM	113	LYS
32	BM	137	LEU
33	BN	11	ALA
33	BN	82	TRP
33	BN	98	ALA
33	BN	118	VAL
33	BN	131	ALA
34	BO	60	PRO
34	BO	68	ALA
34	BO	108	ALA
34	BO	111	ARG
35	BP	12	SER
35	BP	14	VAL
35	BP	22	TRP
35	BP	32	ALA
35	BP	41	ARG
35	BP	63	ARG
35	BP	116	LYS
36	BQ	31	LEU
36	BQ	36	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BQ	74	VAL
36	BQ	75	ILE
36	BQ	98	HIS
37	BR	32	ARG
37	BR	40	LYS
37	BR	51	ALA
37	BR	66	LYS
37	BR	71	LYS
37	BR	73	VAL
37	BR	74	MET
37	BR	96	GLU
37	BR	131	SER
38	BS	11	ALA
38	BS	35	LYS
38	BS	37	ALA
39	BT	76	GLU
39	BT	82	VAL
39	BT	95	LYS
39	BT	98	VAL
39	BT	114	ARG
39	BT	134	ILE
40	BU	12	ARG
40	BU	16	ARG
40	BU	43	TYR
40	BU	45	ILE
40	BU	59	VAL
40	BU	60	ARG
40	BU	75	ARG
40	BU	102	SER
41	BV	44	MET
41	BV	46	LYS
41	BV	52	PHE
41	BV	63	GLN
41	BV	69	LYS
41	BV	122	VAL
41	BV	137	ILE
41	BV	139	ALA
41	BV	143	VAL
42	B0	50	ILE
42	B0	51	SER
42	B0	75	LEU
42	B0	78	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	B0	102	ALA
42	B0	105	ARG
42	B0	114	ALA
43	BW	16	HIS
43	BW	27	ARG
43	BW	40	LYS
43	BW	53	GLU
43	BW	61	ARG
44	BX	5	LYS
44	BX	25	LYS
44	BX	28	LEU
44	BX	46	THR
44	BX	57	VAL
45	BY	30	LYS
45	BY	33	CYS
45	BY	38	TYR
45	BY	46	TYR
46	BZ	49	PHE
46	BZ	69	LEU
46	BZ	75	LYS
47	B9	22	ARG
47	B9	41	CYS
2	AT	111	PHE
2	AT	391	LYS
2	AT	465	LYS
2	AT	764	PRO
3	AB	14	GLN
3	AB	15	LEU
4	AC	138	SER
5	AD	91	LYS
5	AD	104	PHE
7	AG	207	SER
8	AH	48	GLU
8	AH	65	ASN
9	AI	45	PHE
9	AI	112	ASP
10	AJ	91	ILE
10	AJ	97	VAL
13	AM	102	ALA
14	AN	38	CYS
20	BA	22	GLU
20	BA	72	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	BA	197	ASN
21	BB	46	GLN
21	BB	53	ARG
21	BB	62	PHE
21	BB	108	GLU
21	BB	144	LYS
21	BB	182	GLY
22	BC	60	ASP
22	BC	76	THR
22	BC	104	VAL
22	BC	109	LEU
22	BC	112	GLU
22	BC	186	SER
22	BC	206	SER
22	BC	208	PHE
22	BC	240	LYS
22	BC	264	ALA
22	BC	344	ASN
23	BD	130	VAL
23	BD	162	LYS
23	BD	207	VAL
23	BD	218	LEU
23	BD	241	ALA
23	BD	252	ALA
24	BE	23	ARG
24	BE	167	SER
24	BE	212	ALA
24	BE	213	ASP
24	BE	219	PHE
24	BE	228	ALA
25	BF	180	ILE
26	BG	120	SER
26	BG	131	VAL
26	BG	167	ALA
26	BG	197	ALA
26	BG	200	THR
27	BH	27	VAL
27	BH	28	VAL
27	BH	84	LYS
27	BH	97	PHE
27	BH	114	VAL
27	BH	171	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BI	40	LYS
28	BI	71	CYS
28	BI	166	ILE
29	BJ	69	THR
29	BJ	98	THR
29	BJ	120	GLY
29	BJ	125	ASP
29	BJ	136	ARG
29	BJ	163	LYS
30	BK	22	VAL
31	BL	7	GLU
31	BL	71	LYS
31	BL	154	VAL
31	BL	164	THR
31	BL	174	ASN
32	BM	24	LYS
32	BM	39	GLU
32	BM	92	ALA
33	BN	26	LYS
33	BN	44	GLN
33	BN	66	ILE
33	BN	77	VAL
33	BN	119	ASN
33	BN	148	VAL
33	BN	149	VAL
34	BO	63	SER
34	BO	130	ARG
35	BP	42	LYS
35	BP	68	SER
35	BP	73	ARG
35	BP	99	ARG
35	BP	110	ASP
36	BQ	54	HIS
37	BR	86	ARG
38	BS	24	GLY
38	BS	28	ILE
38	BS	48	ARG
39	BT	116	ASN
40	BU	100	HIS
40	BU	108	LYS
41	BV	51	TYR
41	BV	98	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BV	133	ALA
42	B0	26	HIS
42	B0	46	PHE
44	BX	43	LYS
46	BZ	5	LYS
46	BZ	17	ARG
47	B9	20	SER
47	B9	44	LYS
47	B9	77	THR
4	AC	44	LYS
4	AC	47	VAL
4	AC	92	ASP
5	AD	161	THR
6	AE	145	THR
8	AH	70	LYS
8	AH	77	ARG
8	AH	95	ALA
10	AJ	49	ASN
10	AJ	58	LEU
12	AL	67	ALA
20	BA	62	ASN
21	BB	79	GLU
22	BC	93	GLU
22	BC	105	TRP
22	BC	272	HIS
23	BD	29	ILE
23	BD	45	LYS
23	BD	102	THR
23	BD	139	HIS
23	BD	168	LEU
24	BE	79	TYR
24	BE	111	GLN
25	BF	208	ASN
25	BF	221	HIS
25	BF	224	GLN
27	BH	18	VAL
27	BH	45	PHE
27	BH	51	GLN
27	BH	95	ALA
27	BH	142	ASP
27	BH	169	ASN
29	BJ	135	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BL	35	ILE
31	BL	76	LYS
31	BL	84	THR
31	BL	98	ARG
31	BL	108	ARG
31	BL	125	THR
31	BL	188	LYS
31	BL	193	GLN
32	BM	47	PHE
32	BM	120	PRO
33	BN	34	ALA
33	BN	88	LYS
33	BN	99	ALA
34	BO	23	ASN
34	BO	99	THR
35	BP	31	ILE
35	BP	52	LYS
35	BP	59	LYS
35	BP	60	SER
35	BP	131	PHE
37	BR	38	ALA
37	BR	83	LYS
37	BR	87	ARG
38	BS	50	ALA
39	BT	112	LEU
40	BU	50	ILE
40	BU	83	ASP
41	BV	20	ARG
42	B0	39	ASP
42	B0	41	VAL
42	B0	80	LYS
42	B0	109	LEU
43	BW	79	ASN
44	BX	41	LEU
45	BY	21	CYS
45	BY	42	LYS
46	BZ	33	SER
47	B9	29	GLU
47	B9	67	ALA
2	AT	479	LYS
3	AB	96	PRO
3	AB	114	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AE	150	PRO
8	AH	72	GLY
10	AJ	108	ILE
12	AL	43	PHE
12	AL	89	ASN
12	AL	92	CYS
21	BB	107	PRO
21	BB	128	ALA
21	BB	207	ASP
21	BB	241	ARG
22	BC	209	GLU
23	BD	25	PHE
23	BD	121	THR
23	BD	128	THR
23	BD	136	ALA
25	BF	199	ASN
26	BG	107	ARG
26	BG	169	CYS
26	BG	171	LYS
27	BH	116	ASN
31	BL	65	VAL
31	BL	90	GLU
33	BN	62	PHE
34	BO	116	LYS
35	BP	79	LYS
40	BU	30	LEU
41	BV	15	SER
41	BV	87	ASP
41	BV	118	PRO
45	BY	4	THR
47	B9	27	LYS
47	B9	69	THR
3	AB	22	HIS
4	AC	163	VAL
10	AJ	50	LEU
10	AJ	98	GLN
21	BB	217	HIS
21	BB	230	SER
21	BB	234	ALA
22	BC	237	LEU
23	BD	59	THR
23	BD	200	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BE	21	ARG
24	BE	59	ASP
24	BE	108	ARG
24	BE	196	ARG
25	BF	93	LYS
27	BH	81	GLY
27	BH	122	LYS
27	BH	164	ILE
31	BL	16	ASP
31	BL	25	ARG
31	BL	161	ARG
31	BL	191	LYS
33	BN	32	ALA
35	BP	47	GLY
36	BQ	57	TYR
39	BT	86	SER
45	BY	24	ARG
47	B9	10	THR
4	AC	174	VAL
9	AI	39	GLU
9	AI	100	SER
11	AK	12	VAL
21	BB	176	LYS
21	BB	237	ILE
22	BC	23	SER
25	BF	177	ILE
25	BF	217	ARG
26	BG	199	LEU
31	BL	173	ILE
34	BO	133	LYS
35	BP	92	VAL
36	BQ	69	LYS
42	B0	107	VAL
21	BB	14	ILE
22	BC	334	ILE
23	BD	239	PRO
30	BK	98	VAL
32	BM	94	GLY
36	BQ	37	GLY
47	B9	14	GLY
21	BB	52	GLY
21	BB	101	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BD	19	LEU
26	BG	186	GLY
29	BJ	17	VAL
31	BL	105	VAL
40	BU	73	VAL
45	BY	49	GLY
11	AK	41	VAL
14	AN	28	GLY
34	BO	64	VAL
37	BR	49	LEU
40	BU	22	ALA
25	BF	176	GLY
40	BU	119	ILE
21	BB	147	VAL
29	BJ	85	VAL
21	BB	177	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	
2	AT	697/715 (98%)	677 (97%)	20 (3%)	50	78
3	AB	153/153 (100%)	146 (95%)	7 (5%)	33	68
4	AC	152/155 (98%)	140 (92%)	12 (8%)	15	51
5	AD	148/149 (99%)	136 (92%)	12 (8%)	15	50
6	AE	115/115 (100%)	109 (95%)	6 (5%)	29	65
7	AG	123/123 (100%)	115 (94%)	8 (6%)	21	58
8	AH	108/110 (98%)	102 (94%)	6 (6%)	26	62
9	AI	116/118 (98%)	111 (96%)	5 (4%)	35	70
10	AJ	91/93 (98%)	82 (90%)	9 (10%)	10	39
11	AK	95/104 (91%)	91 (96%)	4 (4%)	36	70
12	AL	98/98 (100%)	93 (95%)	5 (5%)	29	66

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	AM	116/116 (100%)	113 (97%)	3 (3%)	54	80
14	AN	27/33 (82%)	26 (96%)	1 (4%)	41	73
15	AO	59/59 (100%)	55 (93%)	4 (7%)	20	57
16	AQ	70/70 (100%)	67 (96%)	3 (4%)	35	70
17	AS	66/66 (100%)	63 (96%)	3 (4%)	34	69
20	BA	194/198 (98%)	184 (95%)	10 (5%)	29	65
21	BB	187/195 (96%)	156 (83%)	31 (17%)	3	19
22	BC	299/322 (93%)	252 (84%)	47 (16%)	3	21
23	BD	198/287 (69%)	174 (88%)	24 (12%)	6	31
24	BE	187/187 (100%)	171 (91%)	16 (9%)	13	47
25	BF	142/143 (99%)	121 (85%)	21 (15%)	4	24
26	BG	92/92 (100%)	82 (89%)	10 (11%)	8	35
27	BH	159/171 (93%)	136 (86%)	23 (14%)	4	24
28	BI	141/143 (99%)	118 (84%)	23 (16%)	3	20
29	BJ	143/149 (96%)	119 (83%)	24 (17%)	2	19
30	BK	105/105 (100%)	103 (98%)	2 (2%)	65	86
31	BL	167/175 (95%)	126 (75%)	41 (25%)	1	6
32	BM	123/123 (100%)	106 (86%)	17 (14%)	4	27
33	BN	120/145 (83%)	94 (78%)	26 (22%)	1	9
34	BO	98/98 (100%)	85 (87%)	13 (13%)	5	28
35	BP	119/119 (100%)	90 (76%)	29 (24%)	1	6
36	BQ	86/88 (98%)	76 (88%)	10 (12%)	7	32
37	BR	102/105 (97%)	87 (85%)	15 (15%)	4	24
38	BS	46/49 (94%)	37 (80%)	9 (20%)	1	12
39	BT	68/73 (93%)	59 (87%)	9 (13%)	5	28
40	BU	100/109 (92%)	83 (83%)	17 (17%)	2	18
41	BV	114/118 (97%)	88 (77%)	26 (23%)	1	8
42	B0	94/111 (85%)	70 (74%)	24 (26%)	1	6
43	BW	69/96 (72%)	60 (87%)	9 (13%)	5	28
44	BX	53/105 (50%)	45 (85%)	8 (15%)	3	23
45	BY	42/70 (60%)	34 (81%)	8 (19%)	2	13

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	BZ	80/90 (89%)	66 (82%)	14 (18%)	2	16
47	B9	56/71 (79%)	44 (79%)	12 (21%)	1	9
All	All	5618/6014 (93%)	4992 (89%)	626 (11%)	12	34

All (626) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AT	12	LEU
2	AT	77	LEU
2	AT	108	HIS
2	AT	183	GLU
2	AT	194	ASP
2	AT	216	HIS
2	AT	394	PHE
2	AT	424	ASP
2	AT	433	ARG
2	AT	457	VAL
2	AT	477	ASN
2	AT	595	GLU
2	AT	596	GLU
2	AT	599	LEU
2	AT	633	ILE
2	AT	677	PHE
2	AT	718	LEU
2	AT	738	GLN
2	AT	829	LYS
2	AT	836	GLN
3	AB	55	LYS
3	AB	67	PRO
3	AB	100	ARG
3	AB	110	ILE
3	AB	121	ILE
3	AB	139	ASN
3	AB	162	ASN
4	AC	6	LYS
4	AC	9	LYS
4	AC	10	LEU
4	AC	31	GLU
4	AC	33	TYR
4	AC	63	ARG
4	AC	93	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AC	134	GLU
4	AC	159	SER
4	AC	178	GLN
4	AC	184	LYS
4	AC	188	MET
5	AD	23	ARG
5	AD	28	LEU
5	AD	43	TYR
5	AD	48	GLN
5	AD	99	LEU
5	AD	129	ILE
5	AD	131	GLN
5	AD	139	GLN
5	AD	154	LYS
5	AD	156	ILE
5	AD	175	ARG
5	AD	179	ARG
6	AE	80	MET
6	AE	81	ASN
6	AE	88	GLN
6	AE	90	ARG
6	AE	169	ILE
6	AE	206	LEU
7	AG	83	LYS
7	AG	94	ASN
7	AG	102	ASN
7	AG	106	LYS
7	AG	107	LEU
7	AG	166	ARG
7	AG	187	LYS
7	AG	202	LYS
8	AH	27	ARG
8	AH	33	ILE
8	AH	41	GLN
8	AH	82	ILE
8	AH	117	ARG
8	AH	118	LYS
9	AI	8	THR
9	AI	11	LYS
9	AI	29	LYS
9	AI	89	VAL
9	AI	105	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AJ	21	LYS
10	AJ	32	LYS
10	AJ	49	ASN
10	AJ	50	LEU
10	AJ	61	LYS
10	AJ	83	GLU
10	AJ	84	MET
10	AJ	85	ARG
10	AJ	88	LYS
11	AK	31	ASP
11	AK	48	LYS
11	AK	52	ASP
11	AK	126	ARG
12	AL	65	ASN
12	AL	77	ILE
12	AL	79	ASN
12	AL	94	ASN
12	AL	142	LYS
13	AM	49	LYS
13	AM	132	ARG
13	AM	143	ARG
14	AN	29	LEU
15	AO	73	ILE
15	AO	75	LYS
15	AO	85	GLU
15	AO	120	ARG
16	AQ	87	ARG
16	AQ	101	LYS
16	AQ	104	LYS
17	AS	58	LYS
17	AS	64	LYS
17	AS	85	ILE
20	BA	24	LYS
20	BA	60	ARG
20	BA	62	ASN
20	BA	91	LYS
20	BA	100	ILE
20	BA	120	VAL
20	BA	161	LYS
20	BA	195	LYS
20	BA	204	LEU
20	BA	215	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	BB	5	ARG
21	BB	8	ARG
21	BB	22	ARG
21	BB	29	ARG
21	BB	36	ARG
21	BB	41	ARG
21	BB	47	ILE
21	BB	53	ARG
21	BB	101	LEU
21	BB	117	GLU
21	BB	122	ARG
21	BB	127	ARG
21	BB	135	ILE
21	BB	144	LYS
21	BB	154	LYS
21	BB	157	ILE
21	BB	162	ARG
21	BB	173	ARG
21	BB	176	LYS
21	BB	180	LYS
21	BB	187	LYS
21	BB	189	ARG
21	BB	191	LYS
21	BB	193	ASN
21	BB	197	LYS
21	BB	199	ARG
21	BB	220	LYS
21	BB	224	ILE
21	BB	226	ARG
21	BB	233	LYS
21	BB	240	ARG
22	BC	9	ARG
22	BC	18	ARG
22	BC	19	LYS
22	BC	20	ARG
22	BC	27	ARG
22	BC	36	ARG
22	BC	49	LYS
22	BC	99	ARG
22	BC	112	GLU
22	BC	115	ARG
22	BC	125	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	BC	127	LYS
22	BC	145	ARG
22	BC	151	LYS
22	BC	152	LYS
22	BC	158	ARG
22	BC	166	ARG
22	BC	172	GLN
22	BC	173	LYS
22	BC	174	LYS
22	BC	182	LEU
22	BC	217	ILE
22	BC	221	LYS
22	BC	231	ARG
22	BC	235	LYS
22	BC	236	LYS
22	BC	239	ARG
22	BC	240	LYS
22	BC	242	HIS
22	BC	243	ARG
22	BC	246	ARG
22	BC	247	LYS
22	BC	254	TRP
22	BC	268	GLN
22	BC	269	ARG
22	BC	274	ARG
22	BC	286	LYS
22	BC	299	ARG
22	BC	302	LYS
22	BC	313	TYR
22	BC	324	LYS
22	BC	330	ASN
22	BC	332	LYS
22	BC	333	ARG
22	BC	341	LEU
22	BC	348	LYS
22	BC	355	LEU
23	BD	30	ARG
23	BD	35	HIS
23	BD	47	GLN
23	BD	83	ARG
23	BD	92	MET
23	BD	103	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BD	106	ARG
23	BD	118	ARG
23	BD	137	ARG
23	BD	139	HIS
23	BD	144	ILE
23	BD	156	GLU
23	BD	160	LYS
23	BD	177	LEU
23	BD	192	LYS
23	BD	196	ARG
23	BD	197	ARG
23	BD	198	TRP
23	BD	202	ARG
23	BD	207	VAL
23	BD	214	ILE
23	BD	219	ARG
23	BD	221	VAL
23	BD	245	ARG
24	BE	17	GLN
24	BE	21	ARG
24	BE	23	ARG
24	BE	33	ARG
24	BE	35	ARG
24	BE	43	LYS
24	BE	103	LEU
24	BE	113	LEU
24	BE	115	LEU
24	BE	120	LYS
24	BE	148	ILE
24	BE	183	TRP
24	BE	186	GLU
24	BE	208	MET
24	BE	211	LEU
24	BE	216	GLU
25	BF	82	LEU
25	BF	89	LYS
25	BF	91	ILE
25	BF	93	LYS
25	BF	97	LYS
25	BF	100	LYS
25	BF	107	LEU
25	BF	117	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	BF	157	LYS
25	BF	159	ARG
25	BF	162	LEU
25	BF	171	ASN
25	BF	174	LYS
25	BF	177	ILE
25	BF	184	ILE
25	BF	188	ILE
25	BF	200	PHE
25	BF	201	LEU
25	BF	205	LYS
25	BF	223	ILE
25	BF	236	ASN
26	BG	105	LYS
26	BG	119	LYS
26	BG	121	LYS
26	BG	122	GLN
26	BG	145	LYS
26	BG	149	LEU
26	BG	176	TYR
26	BG	182	LYS
26	BG	212	LYS
26	BG	217	ILE
27	BH	7	GLU
27	BH	10	ILE
27	BH	12	VAL
27	BH	23	ARG
27	BH	24	ILE
27	BH	25	VAL
27	BH	26	LYS
27	BH	39	LYS
27	BH	47	LYS
27	BH	54	LYS
27	BH	63	LYS
27	BH	68	LEU
27	BH	78	MET
27	BH	106	LYS
27	BH	110	LYS
27	BH	124	ARG
27	BH	125	ASN
27	BH	156	GLN
27	BH	166	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BH	168	ARG
27	BH	170	LYS
27	BH	176	LEU
27	BH	184	LYS
28	BI	10	ARG
28	BI	33	ILE
28	BI	38	LYS
28	BI	40	LYS
28	BI	52	LEU
28	BI	58	GLU
28	BI	69	ARG
28	BI	70	ILE
28	BI	82	ARG
28	BI	86	HIS
28	BI	88	ARG
28	BI	90	ARG
28	BI	98	ARG
28	BI	110	ARG
28	BI	116	ARG
28	BI	121	LYS
28	BI	128	ARG
28	BI	134	ILE
28	BI	139	ARG
28	BI	141	LYS
28	BI	154	ARG
28	BI	164	LYS
28	BI	165	ILE
29	BJ	12	LYS
29	BJ	15	LYS
29	BJ	16	LEU
29	BJ	17	VAL
29	BJ	34	LYS
29	BJ	36	LEU
29	BJ	53	VAL
29	BJ	59	ARG
29	BJ	61	ASN
29	BJ	62	GLU
29	BJ	70	VAL
29	BJ	71	ARG
29	BJ	89	GLN
29	BJ	103	PHE
29	BJ	114	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	BJ	119	ILE
29	BJ	127	TYR
29	BJ	136	ARG
29	BJ	140	ARG
29	BJ	142	ARG
29	BJ	152	LYS
29	BJ	155	LYS
29	BJ	158	THR
29	BJ	165	LYS
30	BK	40	LYS
30	BK	56	ILE
31	BL	3	TYR
31	BL	8	GLU
31	BL	13	LYS
31	BL	22	GLN
31	BL	25	ARG
31	BL	32	LYS
31	BL	37	ARG
31	BL	40	ARG
31	BL	43	ARG
31	BL	53	LYS
31	BL	60	ILE
31	BL	64	ARG
31	BL	66	ARG
31	BL	67	ARG
31	BL	70	ARG
31	BL	71	LYS
31	BL	72	ARG
31	BL	76	LYS
31	BL	82	LYS
31	BL	97	LEU
31	BL	108	ARG
31	BL	112	LEU
31	BL	118	TYR
31	BL	119	TRP
31	BL	127	LYS
31	BL	139	LYS
31	BL	141	ILE
31	BL	146	ARG
31	BL	150	ILE
31	BL	155	HIS
31	BL	156	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BL	159	GLU
31	BL	163	LEU
31	BL	168	LYS
31	BL	169	LYS
31	BL	175	LYS
31	BL	183	LYS
31	BL	186	ARG
31	BL	187	ARG
31	BL	188	LYS
31	BL	193	GLN
32	BM	17	ARG
32	BM	25	GLN
32	BM	26	LEU
32	BM	42	ILE
32	BM	48	ARG
32	BM	52	LYS
32	BM	81	LYS
32	BM	84	ARG
32	BM	90	LYS
32	BM	93	ARG
32	BM	95	LYS
32	BM	98	LEU
32	BM	101	LEU
32	BM	111	TYR
32	BM	123	LEU
32	BM	133	LYS
32	BM	137	LEU
33	BN	12	LYS
33	BN	17	ARG
33	BN	35	ILE
33	BN	40	LEU
33	BN	42	LYS
33	BN	45	LYS
33	BN	46	TYR
33	BN	48	GLU
33	BN	63	ASN
33	BN	66	ILE
33	BN	73	LYS
33	BN	81	ARG
33	BN	85	LYS
33	BN	88	LYS
33	BN	93	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	BN	94	LEU
33	BN	96	ASN
33	BN	106	LEU
33	BN	110	LYS
33	BN	116	ILE
33	BN	123	LYS
33	BN	126	ARG
33	BN	134	ARG
33	BN	137	LYS
33	BN	146	GLU
33	BN	151	GLU
34	BO	56	LYS
34	BO	59	ARG
34	BO	62	VAL
34	BO	66	ARG
34	BO	73	GLN
34	BO	79	LYS
34	BO	87	VAL
34	BO	92	ARG
34	BO	98	LYS
34	BO	105	ARG
34	BO	113	LYS
34	BO	116	LYS
34	BO	130	ARG
35	BP	4	ARG
35	BP	6	GLN
35	BP	7	LYS
35	BP	9	LEU
35	BP	18	LYS
35	BP	20	LYS
35	BP	26	ASN
35	BP	30	GLU
35	BP	33	GLN
35	BP	37	ARG
35	BP	41	ARG
35	BP	42	LYS
35	BP	43	LEU
35	BP	46	ASN
35	BP	51	LYS
35	BP	52	LYS
35	BP	59	LYS
35	BP	63	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BP	65	HIS
35	BP	79	LYS
35	BP	81	LYS
35	BP	88	LEU
35	BP	94	TRP
35	BP	95	ILE
35	BP	102	ARG
35	BP	103	ARG
35	BP	109	ARG
35	BP	115	ASP
35	BP	116	LYS
36	BQ	17	ARG
36	BQ	20	ARG
36	BQ	35	LYS
36	BQ	39	ILE
36	BQ	45	ASN
36	BQ	48	ILE
36	BQ	54	HIS
36	BQ	87	LYS
36	BQ	88	ARG
36	BQ	89	LEU
37	BR	13	ILE
37	BR	32	ARG
37	BR	34	LEU
37	BR	37	ILE
37	BR	46	LEU
37	BR	48	ARG
37	BR	64	LYS
37	BR	81	GLN
37	BR	83	LYS
37	BR	86	ARG
37	BR	87	ARG
37	BR	88	ARG
37	BR	93	LEU
37	BR	94	TYR
37	BR	102	ILE
38	BS	5	ILE
38	BS	12	LYS
38	BS	20	LEU
38	BS	21	PHE
38	BS	29	PHE
38	BS	33	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BS	41	LYS
38	BS	44	LYS
38	BS	49	ILE
39	BT	60	LYS
39	BT	66	ILE
39	BT	72	MET
39	BT	74	LYS
39	BT	81	LEU
39	BT	91	LYS
39	BT	96	LYS
39	BT	114	ARG
39	BT	120	LYS
40	BU	14	LYS
40	BU	17	LYS
40	BU	27	ARG
40	BU	37	LYS
40	BU	40	ARG
40	BU	45	ILE
40	BU	46	LYS
40	BU	60	ARG
40	BU	63	LYS
40	BU	87	LYS
40	BU	89	LYS
40	BU	99	LEU
40	BU	103	LYS
40	BU	108	LYS
40	BU	111	LEU
40	BU	113	LYS
40	BU	122	LYS
41	BV	6	LYS
41	BV	9	LYS
41	BV	11	ARG
41	BV	23	LYS
41	BV	25	ARG
41	BV	47	TYR
41	BV	52	PHE
41	BV	62	LYS
41	BV	68	TRP
41	BV	69	LYS
41	BV	85	LYS
41	BV	86	ARG
41	BV	88	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BV	91	LYS
41	BV	95	LYS
41	BV	110	LYS
41	BV	111	ILE
41	BV	114	LYS
41	BV	116	ARG
41	BV	123	ILE
41	BV	125	LYS
41	BV	132	LEU
41	BV	134	GLU
41	BV	136	LYS
41	BV	138	ARG
41	BV	145	GLU
42	B0	16	LYS
42	B0	19	ARG
42	B0	24	ARG
42	B0	25	TYR
42	B0	30	GLU
42	B0	33	ARG
42	B0	34	LYS
42	B0	35	GLN
42	B0	36	LYS
42	B0	50	ILE
42	B0	54	LYS
42	B0	60	ASN
42	B0	61	LYS
42	B0	62	LYS
42	B0	64	LYS
42	B0	83	GLU
42	B0	87	MET
42	B0	100	ILE
42	B0	103	LYS
42	B0	105	ARG
42	B0	108	ILE
42	B0	109	LEU
42	B0	113	LYS
42	B0	117	ILE
43	BW	9	ARG
43	BW	26	LYS
43	BW	37	LYS
43	BW	55	ASN
43	BW	61	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
43	BW	71	ARG
43	BW	73	ARG
43	BW	76	ARG
43	BW	78	ARG
44	BX	5	LYS
44	BX	10	ARG
44	BX	12	LYS
44	BX	25	LYS
44	BX	41	LEU
44	BX	45	LYS
44	BX	49	LYS
44	BX	51	ILE
45	BY	9	LYS
45	BY	10	ARG
45	BY	12	ASN
45	BY	13	LYS
45	BY	30	LYS
45	BY	31	LYS
45	BY	44	ARG
45	BY	48	TRP
46	BZ	12	LYS
46	BZ	21	GLN
46	BZ	28	LYS
46	BZ	42	TYR
46	BZ	44	ARG
46	BZ	45	LYS
46	BZ	59	LYS
46	BZ	60	LYS
46	BZ	62	LYS
46	BZ	65	LYS
46	BZ	66	LYS
46	BZ	69	LEU
46	BZ	79	ARG
46	BZ	88	LYS
47	B9	16	ARG
47	B9	22	ARG
47	B9	28	LEU
47	B9	30	ILE
47	B9	32	GLN
47	B9	44	LYS
47	B9	47	LYS
47	B9	48	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
47	B9	53	ILE
47	B9	55	THR
47	B9	60	LYS
47	B9	61	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (189) such sidechains are listed below:

Mol	Chain	Res	Type
2	AT	18	ASN
2	AT	91	GLN
2	AT	101	ASN
2	AT	138	GLN
2	AT	201	GLN
2	AT	290	ASN
2	AT	371	ASN
2	AT	414	GLN
2	AT	452	ASN
2	AT	476	HIS
2	AT	537	HIS
2	AT	547	HIS
2	AT	584	ASN
2	AT	644	ASN
2	AT	687	ASN
2	AT	699	HIS
2	AT	734	GLN
2	AT	753	GLN
2	AT	759	GLN
2	AT	800	HIS
2	AT	836	GLN
3	AB	22	HIS
3	AB	27	ASN
3	AB	32	GLN
3	AB	162	ASN
3	AB	192	GLN
4	AC	55	GLN
4	AC	66	ASN
4	AC	73	GLN
4	AC	91	GLN
4	AC	100	GLN
4	AC	161	GLN
4	AC	178	GLN
5	AD	48	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AD	74	ASN
5	AD	112	GLN
5	AD	131	GLN
5	AD	139	GLN
6	AE	81	ASN
6	AE	88	GLN
6	AE	93	GLN
6	AE	146	ASN
7	AG	78	ASN
7	AG	102	ASN
7	AG	115	HIS
7	AG	138	ASN
7	AG	157	GLN
8	AH	11	ASN
8	AH	23	GLN
8	AH	41	GLN
8	AH	65	ASN
8	AH	69	ASN
8	AH	79	ASN
9	AI	99	GLN
9	AI	102	ASN
9	AI	138	GLN
10	AJ	36	ASN
10	AJ	47	GLN
10	AJ	105	GLN
11	AK	11	GLN
11	AK	23	ASN
11	AK	64	GLN
12	AL	75	GLN
12	AL	79	ASN
12	AL	94	ASN
12	AL	99	ASN
13	AM	21	ASN
13	AM	25	ASN
13	AM	90	ASN
13	AM	127	HIS
13	AM	136	GLN
13	AM	137	HIS
14	AN	40	GLN
16	AQ	105	ASN
16	AQ	126	GLN
17	AS	79	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AS	98	ASN
17	AS	114	HIS
20	BA	8	GLN
20	BA	57	ASN
20	BA	182	GLN
20	BA	197	ASN
20	BA	200	ASN
21	BB	6	ASN
21	BB	49	HIS
21	BB	99	ASN
21	BB	131	ASN
21	BB	143	ASN
21	BB	186	HIS
21	BB	193	ASN
21	BB	208	HIS
21	BB	210	HIS
21	BB	214	ASN
22	BC	10	HIS
22	BC	176	HIS
22	BC	181	GLN
22	BC	183	ASN
22	BC	230	HIS
22	BC	268	GLN
22	BC	272	HIS
22	BC	278	ASN
22	BC	330	ASN
22	BC	344	ASN
23	BD	4	GLN
23	BD	47	GLN
23	BD	91	ASN
23	BD	174	HIS
23	BD	195	ASN
24	BE	39	GLN
24	BE	90	HIS
25	BF	92	ASN
25	BF	156	ASN
25	BF	171	ASN
25	BF	198	ASN
26	BG	122	GLN
27	BH	8	GLN
27	BH	59	ASN
27	BH	77	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BH	100	ASN
27	BH	116	ASN
27	BH	125	ASN
27	BH	156	GLN
27	BH	157	ASN
27	BH	162	GLN
28	BI	51	HIS
28	BI	55	ASN
28	BI	112	GLN
28	BI	133	GLN
28	BI	163	GLN
29	BJ	42	GLN
29	BJ	61	ASN
29	BJ	89	GLN
29	BJ	100	ASN
30	BK	97	ASN
30	BK	103	ASN
30	BK	115	GLN
31	BL	22	GLN
31	BL	31	GLN
31	BL	137	GLN
31	BL	177	HIS
31	BL	193	GLN
32	BM	13	HIS
32	BM	49	ASN
32	BM	71	HIS
32	BM	89	HIS
33	BN	27	ASN
33	BN	33	GLN
33	BN	44	GLN
33	BN	49	GLN
33	BN	63	ASN
33	BN	100	ASN
33	BN	115	HIS
33	BN	117	GLN
34	BO	73	GLN
34	BO	135	GLN
35	BP	6	GLN
35	BP	46	ASN
35	BP	120	HIS
35	BP	133	HIS
36	BQ	45	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BQ	49	GLN
36	BQ	54	HIS
36	BQ	77	ASN
36	BQ	82	ASN
37	BR	81	GLN
38	BS	33	ASN
38	BS	42	GLN
39	BT	110	ASN
39	BT	116	ASN
40	BU	26	GLN
40	BU	42	GLN
40	BU	81	GLN
41	BV	13	HIS
41	BV	39	HIS
41	BV	88	GLN
42	B0	49	ASN
42	B0	71	HIS
42	B0	98	HIS
43	BW	55	ASN
43	BW	56	GLN
43	BW	79	ASN
44	BX	16	GLN
45	BY	11	HIS
45	BY	12	ASN
45	BY	27	HIS
46	BZ	21	GLN
46	BZ	22	HIS
46	BZ	26	GLN
46	BZ	46	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1440/1507 (95%)	215 (14%)	91 (6%)
18	B3	2758/2999 (91%)	342 (12%)	115 (4%)
19	B4	122/125 (97%)	17 (13%)	5 (4%)
All	All	4320/4631 (93%)	574 (13%)	211 (4%)

All (574) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	52	G
1	AA	61	G
1	AA	64	G
1	AA	65	U
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	129(A)	G
1	AA	130	A
1	AA	131	C
1	AA	182	U
1	AA	190(D)	U
1	AA	190(E)	U
1	AA	190(F)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	266	G
1	AA	267	C
1	AA	280	C
1	AA	282	A
1	AA	289	G
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	330	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	373	A
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	421	U
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	439	A
1	AA	460	A
1	AA	461	C
1	AA	462	G
1	AA	481	G
1	AA	484	G
1	AA	497	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	653	A
1	AA	665	A
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	702	A
1	AA	703	G
1	AA	718	G
1	AA	723	U
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	777	A
1	AA	781	A
1	AA	782	A
1	AA	793	U
1	AA	794	A
1	AA	813	U
1	AA	815	A
1	AA	817	C
1	AA	819	A
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	858	G
1	AA	902	G
1	AA	913	A
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1004	A
1	AA	1005	A
1	AA	1023	G
1	AA	1050	G
1	AA	1053	G
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1146	A
1	AA	1152	A
1	AA	1157	A
1	AA	1159	U
1	AA	1183	A
1	AA	1184	G
1	AA	1191	A
1	AA	1196	U
1	AA	1197	G
1	AA	1201	A
1	AA	1202	G
1	AA	1211	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1212	U
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1257	U
1	AA	1258	G
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1320	C
1	AA	1332	A
1	AA	1347	G
1	AA	1348	U
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1381	U
1	AA	1394	A
1	AA	1398	A
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1452	C
1	AA	1493	A
1	AA	1494	G
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1517	G
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
18	B3	11	A
18	B3	31	C
18	B3	60	A
18	B3	67	A
18	B3	70	A
18	B3	71	G
18	B3	87	C
18	B3	95	A
18	B3	96	A
18	B3	114	A
18	B3	115	U
18	B3	116	G
18	B3	120	A
18	B3	139	C
18	B3	141	C
18	B3	142	G
18	B3	151	A
18	B3	166	A
18	B3	169	A
18	B3	186	A
18	B3	192	A
18	B3	196	G
18	B3	197	C
18	B3	198	A
18	B3	200	U
18	B3	201	G
18	B3	204	A
18	B3	219	G
18	B3	220	C
18	B3	236	A
18	B3	237	G
18	B3	262	A
18	B3	263	U
18	B3	271	C
18	B3	272	A
18	B3	282	C
18	B3	283	U
18	B3	284	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	285	A
18	B3	308	U
18	B3	309	C
18	B3	336	G
18	B3	337	A
18	B3	345	G
18	B3	358	G
18	B3	368	C
18	B3	381	G
18	B3	395	A
18	B3	397	A
18	B3	398	U
18	B3	407	A
18	B3	417	G
18	B3	439	A
18	B3	453	A
18	B3	461	C
18	B3	485	A
18	B3	486	A
18	B3	487	G
18	B3	497	A
18	B3	498	A
18	B3	510	U
18	B3	511	A
18	B3	512	G
18	B3	514	G
18	B3	515	C
18	B3	537	G
18	B3	538	C
18	B3	539	G
18	B3	545	G
18	B3	548	U
18	B3	553	G
18	B3	554	G
18	B3	555	U
18	B3	588	G
18	B3	600	G
18	B3	601	G
18	B3	604	G
18	B3	620	A
18	B3	632	A
18	B3	660	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	682	A
18	B3	688	A
18	B3	699	C
18	B3	700	A
18	B3	701	U
18	B3	714	U
18	B3	759	C
18	B3	777	U
18	B3	809	G
18	B3	817	G
18	B3	818	A
18	B3	821	U
18	B3	835	U
18	B3	840	U
18	B3	856	G
18	B3	857	A
18	B3	858	U
18	B3	868	G
18	B3	869	G
18	B3	875	A
18	B3	877	G
18	B3	878	G
18	B3	885	G
18	B3	895	A
18	B3	898	G
18	B3	905	C
18	B3	920	C
18	B3	921	G
18	B3	923	A
18	B3	940	G
18	B3	953	G
18	B3	960	G
18	B3	961	A
18	B3	965	A
18	B3	1006	A
18	B3	1008	C
18	B3	1029	U
18	B3	1045	G
18	B3	1059	G
18	B3	1060	C
18	B3	1072	G
18	B3	1073	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	1081	A
18	B3	1089	G
18	B3	1106	A
18	B3	1107	A
18	B3	1108	G
18	B3	1109	U
18	B3	1110	G
18	B3	1119	G
18	B3	1124	A
18	B3	1126	C
18	B3	1127	C
18	B3	1130	U
18	B3	1137	G
18	B3	1148	C
18	B3	1149	U
18	B3	1150	A
18	B3	1160	G
18	B3	1174	A
18	B3	1192	A
18	B3	1194	U
18	B3	1207	A
18	B3	1215	A
18	B3	1216	G
18	B3	1237	U
18	B3	1238	C
18	B3	1239	G
18	B3	1245	C
18	B3	1279	U
18	B3	1287	A
18	B3	1289	C
18	B3	1309	U
18	B3	1310	U
18	B3	1330	A
18	B3	1331	A
18	B3	1341	A
18	B3	1342	C
18	B3	1353	C
18	B3	1360	C
18	B3	1369	A
18	B3	1370	G
18	B3	1377	C
18	B3	1380	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	1407	A
18	B3	1409	G
18	B3	1449	G
18	B3	1451	C
18	B3	1474	C
18	B3	1485	A
18	B3	1488	U
18	B3	1492	A
18	B3	1506	U
18	B3	1507	C
18	B3	1524	U
18	B3	1525	G
18	B3	1526	A
18	B3	1527	A
18	B3	1528	A
18	B3	1535	G
18	B3	1556	G
18	B3	1563	G
18	B3	1564	C
18	B3	1592	G
18	B3	1593	C
18	B3	1604	G
18	B3	1605	G
18	B3	1606	A
18	B3	1624	A
18	B3	1625	U
18	B3	1626	A
18	B3	1633	C
18	B3	1634	G
18	B3	1656	A
18	B3	1682	A
18	B3	1684	A
18	B3	1685	A
18	B3	1691	A
18	B3	1692	C
18	B3	1693	A
18	B3	1699	C
18	B3	1700	C
18	B3	1701	A
18	B3	1710	A
18	B3	1722	U
18	B3	1723	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	1725	C
18	B3	1731	C
18	B3	1732	A
18	B3	1752	G
18	B3	1774	G
18	B3	1778	A
18	B3	1798	C
18	B3	1819	G
18	B3	1820	G
18	B3	1829	A
18	B3	1835	U
18	B3	1836	A
18	B3	1853	C
18	B3	1854	C
18	B3	1857	A
18	B3	1879	U
18	B3	1907	U
18	B3	1908	G
18	B3	1919	A
18	B3	1942	A
18	B3	1973	A
18	B3	1979	G
18	B3	1980	U
18	B3	1981	A
18	B3	1982	C
18	B3	1996	U
18	B3	2005	G
18	B3	2008	U
18	B3	2011	A
18	B3	2012	U
18	B3	2013	G
18	B3	2033	G
18	B3	2034	U
18	B3	2063	U
18	B3	2064	U
18	B3	2072	G
18	B3	2073	G
18	B3	2074	A
18	B3	2075	G
18	B3	2077	C
18	B3	2083	A
18	B3	2084	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	2091	G
18	B3	2096	A
18	B3	2101	A
18	B3	2102	G
18	B3	2110	G
18	B3	2134	G
18	B3	2152	C
18	B3	2153	G
18	B3	2157	G
18	B3	2158	A
18	B3	2159	U
18	B3	2160	A
18	B3	2168	G
18	B3	2217	U
18	B3	2218	A
18	B3	2238	A
18	B3	2243	C
18	B3	2246	U
18	B3	2258	A
18	B3	2259	C
18	B3	2271	G
18	B3	2272	G
18	B3	2283	G
18	B3	2284	G
18	B3	2291	A
18	B3	2316	G
18	B3	2317	C
18	B3	2322	U
18	B3	2354	A
18	B3	2361	A
18	B3	2369	A
18	B3	2370	A
18	B3	2371	G
18	B3	2379	G
18	B3	2396	C
18	B3	2422	U
18	B3	2427	C
18	B3	2428	G
18	B3	2462	G
18	B3	2464	C
18	B3	2466	G
18	B3	2467	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	2469	A
18	B3	2476	C
18	B3	2482	G
18	B3	2483	A
18	B3	2507	G
18	B3	2509	A
18	B3	2511	A
18	B3	2527	U
18	B3	2533	C
18	B3	2537	G
18	B3	2538	A
18	B3	2541	U
18	B3	2564	G
18	B3	2589	U
18	B3	2601	A
18	B3	2602	G
18	B3	2608	C
18	B3	2613	G
18	B3	2617	G
18	B3	2634	G
18	B3	2637	A
18	B3	2638	G
18	B3	2649	A
18	B3	2681	A
18	B3	2682	C
18	B3	2714	U
18	B3	2715	G
18	B3	2719	A
18	B3	2726	U
18	B3	2747	C
18	B3	2748	G
18	B3	2749	U
18	B3	2750	G
18	B3	2762	C
18	B3	2768	A
18	B3	2783	A
18	B3	2786	G
18	B3	2792	A
18	B3	2800	A
18	B3	2811	A
18	B3	2814	A
18	B3	2815	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	2826	G
18	B3	2827	A
18	B3	2837	U
18	B3	2850	C
18	B3	2867	G
18	B3	2876	G
18	B3	2890	A
18	B3	2891	A
18	B3	2903	C
18	B3	2914	A
19	B4	2	U
19	B4	4	G
19	B4	14	G
19	B4	23	U
19	B4	24	U
19	B4	25	G
19	B4	29	C
19	B4	34	A
19	B4	41	C
19	B4	43	G
19	B4	56	A
19	B4	57	A
19	B4	66	G
19	B4	77	A
19	B4	87	U
19	B4	114	G
19	B4	122	C

All (211) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	7	G
1	AA	30	U
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	64	G
1	AA	115	G
1	AA	119	A
1	AA	129(A)	G
1	AA	181	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	197	A
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	243	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	279	A
1	AA	281	G
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	351	G
1	AA	353	A
1	AA	366	C
1	AA	372	C
1	AA	421	U
1	AA	428	G
1	AA	438	G
1	AA	496	A
1	AA	497	A
1	AA	509	A
1	AA	518	C
1	AA	533	A
1	AA	559	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	701	C
1	AA	748	C
1	AA	792	A
1	AA	812	C
1	AA	840	C
1	AA	913	A
1	AA	960	U
1	AA	965	A
1	AA	975	A
1	AA	976	G
1	AA	992	U
1	AA	993	G
1	AA	1049	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1085	U
1	AA	1101	A
1	AA	1129	C
1	AA	1145	C
1	AA	1182	G
1	AA	1183	A
1	AA	1190	G
1	AA	1196	U
1	AA	1201	A
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C
1	AA	1256	A
1	AA	1257	U
1	AA	1278	U
1	AA	1281	U
1	AA	1285	A
1	AA	1286	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1319	A
1	AA	1331	G
1	AA	1346	A
1	AA	1347	G
1	AA	1364	U
1	AA	1380	U
1	AA	1397	C
1	AA	1451	A
1	AA	1493	A
1	AA	1498	U
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1528	U
18	B3	10	U
18	B3	95	A
18	B3	115	U
18	B3	191	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	196	G
18	B3	199	A
18	B3	270	U
18	B3	282	C
18	B3	283	U
18	B3	284	C
18	B3	338	C
18	B3	367	G
18	B3	394	G
18	B3	438	C
18	B3	452	G
18	B3	485	A
18	B3	496	G
18	B3	514	G
18	B3	554	G
18	B3	600	G
18	B3	603	A
18	B3	681	G
18	B3	699	C
18	B3	713	U
18	B3	817	G
18	B3	855	U
18	B3	857	A
18	B3	877	G
18	B3	894	A
18	B3	904	U
18	B3	939	A
18	B3	952	G
18	B3	1044	C
18	B3	1059	G
18	B3	1072	G
18	B3	1080	C
18	B3	1088	A
18	B3	1106	A
18	B3	1108	G
18	B3	1126	C
18	B3	1137	G
18	B3	1149	U
18	B3	1206	C
18	B3	1214	G
18	B3	1237	U
18	B3	1309	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	1329	A
18	B3	1352	A
18	B3	1369	A
18	B3	1379	A
18	B3	1406	A
18	B3	1408	U
18	B3	1448	A
18	B3	1450	C
18	B3	1506	U
18	B3	1534	C
18	B3	1591	A
18	B3	1603	A
18	B3	1605	G
18	B3	1624	A
18	B3	1683	G
18	B3	1690	C
18	B3	1699	C
18	B3	1835	U
18	B3	1853	C
18	B3	1856	C
18	B3	1907	U
18	B3	1978	A
18	B3	1979	G
18	B3	1981	A
18	B3	2011	A
18	B3	2074	A
18	B3	2076	U
18	B3	2083	A
18	B3	2090	G
18	B3	2133	U
18	B3	2151	G
18	B3	2152	C
18	B3	2157	G
18	B3	2159	U
18	B3	2167	A
18	B3	2216	A
18	B3	2217	U
18	B3	2242	U
18	B3	2245	C
18	B3	2258	A
18	B3	2282	U
18	B3	2283	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	B3	2290	U
18	B3	2316	G
18	B3	2321	A
18	B3	2338	G
18	B3	2370	A
18	B3	2395	A
18	B3	2421	G
18	B3	2427	C
18	B3	2463	A
18	B3	2465	A
18	B3	2467	A
18	B3	2468	A
18	B3	2482	G
18	B3	2526	C
18	B3	2616	G
18	B3	2692	G
18	B3	2714	U
18	B3	2718	C
18	B3	2748	G
18	B3	2749	U
18	B3	2791	U
18	B3	2813	A
18	B3	2814	A
18	B3	2836	G
18	B3	2849	U
18	B3	2866	U
18	B3	2890	A
19	B4	1	U
19	B4	3	A
19	B4	28	U
19	B4	55	U
19	B4	65	A

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates 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 [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
18	B3	35
1	AA	25
20	BA	2
6	AE	1
2	AT	1
30	BK	1
13	AM	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AA	142:G	O3'	143:A	P	21.73
1	AT	480:VAL	C	481:MET	N	21.40
1	AA	178:C	O3'	179:A	P	20.38
1	AA	454:C	O3'	455:C	P	14.81
1	B3	1228:C	O3'	1229:C	P	13.08
1	AA	436:C	O3'	437:U	P	12.44
1	BA	154:THR	C	155:ILE	N	12.24
1	B3	1133:A	O3'	1134:G	P	12.09
1	AM	108:LYS	C	109:LEU	N	12.06
1	AA	68:G	O3'	69:G	P	10.04
1	AA	477:G	O3'	478:A	P	9.63
1	B3	1154:A	O3'	1155:G	P	9.26
1	AA	925:G	O3'	926:G	P	9.19
1	AA	239:U	O3'	240:C	P	9.04
1	BK	74:VAL	C	75:PRO	N	8.81
1	BA	53:LEU	C	54:LYS	N	8.53
1	AA	990:C	O3'	991:U	P	8.49
1	AA	1045:C	O3'	1046:A	P	8.43
1	B3	1300:G	O3'	1301:C	P	8.19

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B3	589:U	O3'	590:A	P	8.11
1	B3	1354:G	O3'	1355:A	P	8.08
1	AA	545:C	O3'	546:G	P	7.52
1	B3	1947:G	O3'	1948:G	P	7.43
1	B3	296:G	O3'	297:U	P	7.31
1	B3	607:G	O3'	608:A	P	6.89
1	AA	121:C	O3'	122:G	P	6.86
1	B3	354:A	O3'	355:C	P	6.74
1	B3	377:C	O3'	378:A	P	6.50
1	AA	562:C	O3'	563:A	P	5.94
1	AA	365:U	O3'	366:C	P	5.87
1	B3	1160:G	O3'	1161:A	P	5.83
1	AA	99:C	O3'	101:A	P	5.75
1	AA	1390:U	O3'	1391:U	P	5.70
1	AA	1505:G	O3'	1506:U	P	5.62
1	B3	272:A	O3'	273:G	P	5.60
1	AA	403:C	O3'	404:U	P	5.46
1	B3	567:U	O3'	568:G	P	5.41
1	AA	220:G	O3'	221:C	P	5.32
1	B3	2136:G	O3'	2137:U	P	5.27
1	B3	2329:C	O3'	2330:U	P	5.20
1	B3	2241:C	O3'	2242:U	P	5.17
1	B3	548:U	O3'	549:A	P	5.09
1	B3	2356:A	O3'	2357:G	P	5.07
1	AA	546:G	O3'	547:A	P	4.89
1	B3	2229:C	O3'	2230:C	P	4.84
1	AA	1189:C	O3'	1190:G	P	4.83
1	B3	2531:U	O3'	2532:A	P	4.78
1	AA	1396:A	O3'	1397:C	P	4.60
1	AE	137:PRO	C	138:ILE	N	4.02
1	B3	48:A	O3'	49:A	P	3.94
1	B3	112:G	O3'	113:A	P	3.94
1	B3	1212:C	O3'	1213:C	P	3.94
1	B3	515:C	O3'	516:A	P	3.93
1	AA	499:A	O3'	500:G	P	3.90
1	B3	797:A	O3'	798:G	P	3.84
1	B3	970:U	O3'	972:C	P	3.84
1	B3	2552:C	O3'	2553:A	P	3.71
1	B3	815:U	O3'	816:G	P	3.57
1	AA	141:A	O3'	142:G	P	3.52
1	B3	2581:U	O3'	2582:G	P	3.42
1	B3	480:C	O3'	481:U	P	3.32

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B3	2489:G	O3'	2490:A	P	3.25
1	AA	46:G	O3'	47:C	P	2.61
1	B3	2168:G	O3'	2169:C	P	1.22
1	B3	2133:U	O3'	2134:G	P	0.93
1	B3	1206:C	O3'	1207:A	P	0.90